EXHIBIT 1M

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

PROJECT 010326.000

30% CDs

AUGUST 26, 2022

PROJECT TEAM:

ARCHITECT: Arquitectonica
2900 Oak Ave., Miami, FL, 33133
305.372.1812

STRUCTURAL ENGINEER: THORTON TOMASETTI
101 NE THIRD AVE., STE. 1170 FORT LAUDERDALE, FL, 33301
954.903.9300

CIVIL ENGINEER/LANDSCAPE: KEITH
301 E Atlantic Ave., Pompano Beach, FL, 33060
954.788.3400

MEPFP: Kamm Consulting
1407 W Newport Center Dr., Deerfield Beach, FL, 33442
954.949.2200

CODE CONSULTANT: SLS Consulting, Inc.
260 Palmermo Ave., Coral Gables, FL, 33134
305.859.0161

FACADE CONSULTANT: SOCOTEC Consulting, Inc.
950 South Pine Island Rd., Ste. A150, Plantation, FL, 33324
305.695.0850

AQUATICS CONSULTANT: Counsilman-Hunsaker
10733 Sunset Office Dr., Suite 400, Saint Louis, MO, 63127
618.975.9025

VERTICAL CONSULTANT: Persohn Hahn Associates Inc.
11621 Spring Cypress Road, Suite D, Tomball, TX, 77377
713.467.4440

H³

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M1-103	FLOOR PLAN - LEVEL 04	X
M1-104	FLOOR PLAN - LEVEL 04 MEZZ.	X
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E4-001	ENLARGED ELECTRICAL ROOM PLANS	X
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E7-001	ELECTRICAL DETAILS	X

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PROJECT INFO

PROJECT DESCRIPTION:

A 6-STORY POST-TENSIONED CONCRETE STRUCTURE CONTAINING LOBBY, TRAINING POOL, DRYLAND TRAINING, PARKING GARAGE, MUSEUM, EVENT SPACE, AND RESTAURANT.

APPLICABLE CODES:

BUILDING CODE
- FBC: FLORIDA BUILDING CODE, SEVENTH EDITION.

FIRE PREVENTION/LIFE SAFETY CODE
- FFPC: FLORIDA FIRE PREVENTION CODE, SEVENTH EDITION.

ELECTRICAL CODE
- NFPA 70: NATIONAL ELECTRICAL CODE® (NEC), 2017 EDITION.

MECHANICAL CODE
- FBC-M: FLORIDA BUILDING CODE - MECHANICAL, SEVENTH EDITION.

PLUMBING CODE
- FBC,P: FLORIDA BUILDING CODE – PLUMBING, SEVENTH EDITION.

MAJOR NFPA STANDARDS
- NFPA 10: STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2018 EDITION.
- NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION
- NFPA 14: STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION.
- NFPA 20: STANDARD FOR INSTALLATION OF STATIONARY FIRE PUMPS FOR FIRE PROTECTION, 2016 EDITION.
- NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE®, 2016 EDITION.
- NFPA 88A: STANDARD FOR PARKING GARAGE STRUCTURES, 2015 EDITION.
- NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, 2015 EDITION.
- NFPA 92: STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION.
- NFPA 110: STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2016 EDITION.

SITE INFORMATION:

LOT ADDRESS: 501 Seabreeze Boulevard, Fort Lauderdale, FL, 33316
LOT NUMBER: 0212330010
LOT OWNER: City of Fort Lauderdale
LOT AREA: 219,929 SF

COMMUNITY DISTRICT: Fort Lauderdale City Commission District 2
POLICE PRECINCT: ...

LANDUSE: Municipal
ZONING: SBMHA - South Beach Marina and Hotel Area District
SPECIAL DISTRICT: ...
COMMERCIAL OVERLAY: ...
ZONING MAP #: Parcel 501
FLOOR AREA RATIO: ...
MAX. ALLOWABLE FLOOR AREA RATIO: 1:5

NUMBER OF BUILDINGS: 2
NUMBER OF FLOORS: 5
APPROX. BUILDING GROSS AREA: 39,015 SF
APPROX. HEIGHT OF BUILDINGS: 97'-0"
CONSTRUCTION CLASSIFICATION: TYPE 1B
BUILDING OCCUPANCY GROUP CLASSIFICATION: 89 - GOVERNMENT - MUNICIPAL OTHER THAN PARKS, RECREATIONAL AREAS, COLLEGES, HOSPITALS

DEPARTMENT OF BUILDINGS APPLICATION NUMBER: ...

SPECIAL INSPECTIONS

GRAPHIC SYMBOLS

COLUMN LINE — 0

CENTER LINE — ℄

ROOM IDENTIFICATION — ROOM NAME E101 — ROOM NUMBER

ROOM FINISH TAG

ROOM NAME TYPE:KITCHEN OR BATH TYPE			ROOM NUMBER
FLOOR FLOOR	BASE BASE	CEILING CEILING	
N WALL N WALL	S WALL S WALL	E WALL E WALL	W WALL W WALL
COMMENTS			

DOOR SYMBOL — 1i — DOOR MARK

WINDOW SYMBOL — XX — WINDOW TYPE

LOUVER SYMBOL — X — LOUVER TYPE

MATERIAL TAG — ? — MATERIAL SYMBOL

PARTITION TYPE SYMBOL — 0.00 — PARTITION TYPE

MILLWORK TAG — M-X — MILLWORK DESIGNATION

FINISH TRANSITION

ELEVATION MARKER — Name, Elevation

DATUM POINT

SLAB DIFFERENTIAL — 0' - 0" / 0' - 0"

NOTE REFERENCE SYMBOL — XX — NOTE NUMBER

REVISIONS SYMBOL — 11

ELEVATION SYMBOL — 1 Ref; Ref; Ref; Ref; A-000.00

SECTION SYMBOL — 1 / A-000.00 — SECTION IDENTIFICATION; SHEET NUMBER

DETAIL SYMBOL — 1 / A-000.00 — SECTION IDENTIFICATION; SHEET NUMBER

PLAN DETAIL — 1 / A-000.00

GRAPHIC LEGEND

- NOT IN SCOPE
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION
- ACOUSTIC CEILING TILE
- ALUMINUM
- BATT INSULATION
- COMPACTED SOIL
- CONCRETE
- CONCRETE BLOCK
- EXPOSED BRICK
- FINISH WOOD FOR ARCH WOODWORK
- GRAVEL
- GYPSUM
- PLASTER
- RIGID INSULATION
- ROUGH PLYWOOD
- SPRAY-FOAM INSULATION
- STEEL

ABBREVIATIONS

& AND
< ANGLE
@ AT
℄ CENTERLINE
∅ DIAMETER
POUND

AB ANCHOR BOLT
ABV ABOVE
AC ACOUSTIC
A/C AIR CONDITIONER
ACC ACCESS
ACFL ACCESS FLOOR
ACOUS ACOUSTICAL
ACPL ACOUSTICAL PLASTER
ACT ACOUSTICAL TILE
AD ACCESS DOOR
ADD ADDENDUM
ADH ADHESIVE
ADJ ADJACENT
ADJT ADJUSTABLE
AFF ABOVE FINISH FLOOR
AGG AGGREGATE
ALT ALTERNATE
ALUM ALUMINUM
ANCH ANCHOR
ANOD ANODIZED
AP ACCESS PANEL
ARCH ARCHITECT(URAL)
ASPH ASPHALT
AT ASPHALT TILE
AUTO AUTOMATIC
AVG AVERAGE

B BASE
BEL BELOW
BET BETWEEN
BIT BITUMINOUS
BD BOARD
BLDG BUILDING
BLK BLOCK
BLKG BLOCKING
BM BEAM
B.M. BENCH MARK
B.O.F. BOTTOM OF FOOTING
BOT BOTTOM
BR BRICK
BRG BEARING
BRZ BRONZE
BTU BRITISH THERMAL UNIT
BUR BUILT-UP ROOF
B.O. BY OTHERS

CAB CABINET
CB CATCH BASIN
CCTV CLOSED CIRCUIT TV
CEM CEMENT
CER CERAMIC
CFT CUBIC FOOT
CG CORNER GUARD
CHAM CHAMFER
C. HT CEILING HEIGHT
C.I. CAST IRON
C.I.P. CAST IN PLACE
CIRC CIRCUMFERENCE
CIR CIRCLE
CJ CONSTRUCTION JOINT
CJT CONTROL JOINT
CK CAULK
CL CLOSET
CLG CEILING
CLJ CONTRACT LIMIT LINE
CLR CLEAR(ANCE)
CLS CLOSURE
CMU CONCRETE MASONRY UNIT
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONST CONSTRUCTION
CONT CONTINUOUS
CONTR CONTRACTOR
COR CORRIDOR
CORR CORRUGATED
CPT CARPET
CR CARD READER
CRS COLD ROLLED STEEL
CSMT CASEMENT
CS CONCRETE SEALER
CT CERAMIC TILE
CTR CENTER
CTSK COUNTER SUNK
CU.FT. CUBIC FEET (FOOT)
CU.IN. CUBIC INCH
CU.YD. CUBIC YARD
CW COLD WATER

D DRAIN
DA DOUBLE ACTING
DBL DOUBLE
DEMO DEMOLITION
DET DETAIL
DEPT DEPARTMENT
DD DECK DRAIN
DF DRINKING FOUNTAIN
DIAG DIAGONAL
DIAM DIAMETER
DIFF DIFFUSER
DIM DIMENSION
DISP DISPENCER
DIST DISTRIBUTION
DIV DIVISION
DN DOWN
DO DOOR OPENING
DPR DISPENSER
DR DOOR
DS DOWNSPOUT
DST DOOR STOP
DT DRAIN TILE
DWG DRAWING
DWL DOWEL
DWR DRAWER

E EAST
EA EACH
E/A EXHAUST AIR
EIFS EXTERIOR INSULATED FINISH SYSTEM
EJ EXPANSION JOINT
EL ELEVATION
ELAST ELASTOMERIC
ELEC ELECTRIC
ELEV ELEVATOR
EMERG EMERGENCY
EMR ELEVATOR MACHINE ROOM
ENCL ENCLOSURE
ENGR ENGINEER
ENTR ENTRANCE
EP ELECTRIC PANEL
EPDM ETHYLENE PROPYLENE DIENE MONOMER
EQ EQUAL
EQUIP EQUIPMENT
ESMT EASEMENT
EW EACH WAY
EWC ELECTRIC WATER COOLER
EX EXISTING
EXC EXCAVATE
EXH EXHAUST
EXIST EXISTING
EXP EXPOSED
EXP JT EXPANSION JOINT
EXPN EXPANSION
EXT EXTERIOR

F FIXED
FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FAB FABRICATED
FC FLOOR COVERING
FD FLOOR DRAIN
FDC FIRE DEPARTMENT CONNECTION
FDN FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FEM FEMALE
FFE FINISH FLOOR ELEVATION
FFL FINISH FLOOR LINE
FH FIRE HYDRANT
FHC FIRE HOSE CABINET
FIN FINISH(ED)
FPRF FIREPROOFING
FJT FLUSH JOINT
FLAM FLAMABLE
FL FRAMELESS
FLR FLOOR(ING)
FLX FLEXIBLE
FLCO FLOOR CLEAN OUT
FLUOR FLUORESCENT
FOC FACE OF CONCRETE
FOF FACE OF FINISH
FOM FACE OF MASONRY
FOS FACE OF STUDS
FP FIREPROOF
FR FRAME(ING)
FRA FRESH AIR
FRT FIRE RESISTANT TREATMENT
FSD FIRE SMOKE DAMPER
FT FOOT/FEET
FTG FOOTING
FUR FURRING
FUT FUTURE
FWP FABRIC WALL PANEL
FXD FIXED (INOPERABLE)

G GASKETED
GA GAUGE, GAGE
GALV GALVANIZED
GB GRAB BAR
GC GENERAL CONTRACTOR
GCMU GLAZED CONC MASONRY UNIT
GD GRADE, GRADING
GEN GENERAL
GF GROUND FACE
GFRC GLASS FIBER REINFORCED CONTRETE
GFRG GLASS FIBER REINFORCED GYPSUM
GI GALVANIZED IRON
GKT GASKET
GL GLASS, GLAZING
G.L. GRID LINE
GLB GLASS BLOCK
GLF GLASS FIBER
GL-L GLASS-LAMINATED
GL-PS GLASS PANEL SYSTEM
GL-SS GLASS STOREFRONT SYSTEM
GL-T GLASS TEMPERED
GN GENERAL NOTES
GND GROUND
GP GALVANIZED PIPE
GPL GYPSUM LATH
GP PL GYPSUM PLASTER
GR GRADE
GRL GRILLE
GRN GRANITE
GRT GROUT
GT GLAZED TILE
GVL GRAVEL
GWB GYPSUM WALL BOARD

HB HOSE BIBB
HBD HARDBOARD
HC HOLLOW CORE
HCH HOLLOW CORE HARDBOARD
HCPD. HANDICAPPED
HD HEAVY DUTY
HDR HEADER
HDW HARDWARE (SET)
HDWD HARD WOOD
HES HIGH EARLY-STRENGTH CEMENT
HGT HEIGHT
HH HANDHOLE
HJT HEAD JOINT
HK HOOK (S)
HM HOLLOW METAL
HORIZ HORIZONTAL
H.P. HIGH POINT
HPS HIGH PRESSURE SODIUM
HR HOUR
HT HEIGHT
HTG HEATING
HTR HEATER
HVAC HEATING/VENTILATING/ AIR CONDITIONING
HW HOT WATER
HWH HOT WATER HEATER

I.D. INSIDE DIAMETER
IF INSIDE FACE
IGU INSULATED GLASS UNIT
ILK INTERLOCK
IMP. IMPERVIOUS
IN INCH
INCL INCLUDE (ING) (D)
INCIN INCINERATOR
INSC INSULATING CONC.
INSF INSULATING FILL
INSUL INSULATE(D),(ION)
INT INTERIOR
INTM INTERMEDIATE
INV INVERT
INFO INFORMATION
IPS IRON PIPE SIZE

JAN JANITOR
JC JANITOR'S CLOSET
JF JOINT FILLER
JST JOIST
JT JOINT

KD KNOCK DOWN W/ PAINT FINISH
KIT KITCHEN
KO KNOCK OUT
KPL KICKPLATE

L LENGTH
LAB LABORATORY
LAD LADDER
LAM LAMINATE(D)
LAV LAVATORY
LB LAG BOLT
LBL LABEL
LC LIGHT CONTROL
LCQ LACQUER
LF LINEAR FOOT
LG LENGTH
LH LEFT HAND
LHR LEFT HAND REVERSE
LIN LINEAR
LKR. LOCKER
LL LIVE LOAD
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LMS LIMESTONE
LNTL LINTEL
LP LIGHT PROOF
LPT LOW POINT
LT LIGHT
LTG LIGHTING
LT WT LIGHT WEIGHT
LVR LOUVER
LVD LOWER VEHICULAR DRIVE
LWC LIGHTWEIGHT CONC.

M MILLWORK (TYPE)
MACH MACHINE
MAS MASONARY
MAT MATERIAL(S)
MAX MAXIMUM
MC METAL CLAD
MECH MECHANIC(AL)
MED MEDIUM
MEMB MEMBRANE
MFR MANUFACTURE(ER)
MFD METAL FLOOR DECKING
MH MANHOLE
MIN MINIMUM
MIR MIRROR
MISC MISCELLANEOUS
ML METAL LATH
MLDG MOULDING
MN MINUTES
MO MASONRY OPENING
MOD MODULAR, MODULE
MOV MOVABLE
MRB MARBLE
MRD METAL ROOF DECKING
MT MARBLE TILE
MTD MOUNTED
MTG MOUNTING
MTHR METAL THRESHOLD
MTFR METAL FURRING
MTL METAL
MTR MOTOR
MULL MULLION
MWK MILLWORK

N NORTH
N/A NOT APPLICABLE
NIC NOT IN CONTRACT
NL NAILABLE
NLR NO LONGER REQUIRED
NMT NONMETALLIC
NO# NUMBER
NOM NOMINAL
NR NOT RATED
NRC NOISE REDUCTION COEFFICIENT
N.T.S NOT TO SCALE

OA OVERALL
OBS OBSCURE
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
OFF OFFICE
OH OVERHEAD
OJ OPEN-WEB JOIST
OP OPAQUE
OPH OPPOSITE HAND
OPNG OPENING
OPP OPPOSITE
OPS OPPOSITE SURFACE

P PAINT
PA POWER ASSIST
PAR PARALLEL
P.B. PEGBOARD
PB PANIC BAR
PBD PARTICLE BOARD
PCC PRECAST CONCRETE
PCG POUNDS PER CUBIC FT.
PCPL PORTLAND CEMENT PLASTER
PD PLANTER DRAIN
PED PEDESTAL
PERF PERFORATE
PERI PERIMETER
PE PORCELAIN ENAMEL
PFB PREFABRICATE(D)
PFL POUNDS PER LINEAL FT.
PFN PREFINISHED
PG PLATE GLASS
PH PANIC HARDWARE
PHP PARTIAL HEIGHT PARTITION
PIP POURED IN PLACE
PL PROPERTY LINE,
PLAM PLASTIC LAMINATE
PLAS PLASTER
PLBG PLUMBING
PLY PLYWOOD
PNL PANEL
PNT PAINT(ED)
PR PAIR
PRF PREFORMED
PSC PRESTRESSED CONC.
PSF POUNDS PER SQUARE FT.
PSI POUNDS PER SQUARE INCH
PT POINT
P.T. PRESSURE TREATED
PTC POST -TENSIONED CONCRETE
P.T.D. PAPER TOWEL DISPENSER
P.T.H. PAPER TOWEL HOLDER
PTN PARTITION
PTR PAPER TOWEL RECEPTACLE
PV PAVE (D) (ING)
PVMT PAVEMENT
P.V.C. POLYVINYL CHLORIDE
PWD PLYWOOD
PWR POWER

QT QUARRY TILE
QTY QUANTITY

R RISER
RA RETURN AIR
RAD RADIUS
RB RUBBER BASE
RBR RUBBER
RC RECESS-MOUNTED CABINET
RCP REFLECTED CEILING PLAN
RD ROOF DRAIN
RECPT RECEPTACLE
RECT RECTANGULAR
REF REFERENCE
REFR REFRIGERATOR
REG REGISTER
REINF REINFORCE(ING)
REQ REQUIRED
RES RESILIENT
RET RETURN
REV REVISION(S), REVISED
RF ROOF
RFG ROOFING
RFL REFLECT (ED) (IVE) (OR)
RH RIGHT HAND
RL RAIL(ING)
RM ROOM
RO ROUGH OPENING
ROW RIGHT OF WAY
RVL REVEAL
RWC RAINWATER CONDUCTOR
RWL RAIN WATER LEADER

S SOUTH
S/A SUPPLY AIR
SAN SANITARY
SC SOLID CORE
SCH SCHEDULE
SD STORM DRAIN
SEC SECTION
SF SEAMLESS FLOOR
S.F. SQUARE FOOT (FEET)
SFGL SAFETY GLASS
S.H. SOAP HOLDER
SHELF SHELVING
SHO SHOWER
S.H. SPRINKLER HEAD
SHT SHEET
SIM SIMILAR
SLV SLEEVE
SMC SURFACE-MOUNTED CABINET
S.M.S. STRUCTURAL METAL STUD
SNR SANITARY NAPKIN RECEPTACLE
SND SANITARY NAPKIN DISPENCER
SNT SEALANT
SP START POINT
SPEC SPECIFICATION(S)
SPK SPEAKER
SQ SQUARE
SS STAINLESS STEEL
SSK SERVICE SINK
STA STATION
STC SOUND TRANSMISSION CLASS
STD STANDARD
STG STORAGE, SEATING
STL STEEL
STN STONE
STOR STORAGE
STRUCT STRUCTURAL
SUR SURFACE
SUSP SUSPENDED
SW SWITCH
SWBD SWITCHBOARD
SWR SWITCH ROOM
S.Y. SQUARE YARD
SYM SYMMETRICAL
SYS SYSTEM

TB TOWEL BAR
(TBA) TO BE AGREED
TEL TELEPHONE
TEMP TEMPERATURE
TERR TERRAZZO
THK THICK(NESS)
THR THRESHOLD (SADDLE)
TM TRAVERTINE MARBLE
TMA TO MATCH ADJACENT
TME TO MATCH EXISTING
TO TOP OF
T.O.B. TOP OF BEAM
T.O.C. TOP OF CONCRETE
T.O.D. TOP OF DECK
T.O.F. TOP OF FOOTING
T.O.P. TOP OF PARAPET
T.O.S. TOP OF SLAB
T.O.ST TOP OF STEEL
T.O.W. TOP OF WALL
T.P.D. TOILET PAPER DISPENCER
TPTN TOILET PARTITION
TR TREAD
TRNSF TRANSFORMER
TV TELEVISION
TYP TYPICAL

UC UNDERCUT
UH UNIT HEATER
UL UNDERWRITERS LABORATORY
UNF UNFINISHED
UON UNLESS OTHERWISE NOTED
UR URINAL
UVD UPPER VEHICULAR DRIVE

V VENEER
VAC VACUUM
VAR VARIES
VB VINYL BASE
V.C.T. VINYL COMPOSITION TILE
VENT VENTILATION
VERT VERTICAL
VEST VESTIBULE
VIF VERIFY IN FIELD
VIN VINYL
V.W.C. VINYL WALLCOVERING

W WEST
W/ WITH
WC WATER CLOSET
WD WOOD
WDB WOOD BASE
WDV WOOD VENEER
WDW WINDOW
WG WIRED GLASS
WH WALL HUNG
W.H. WATER HEATER
WM WIRE MESH
WMB WALL-MOUNTED BRACKET
W/O WITHOUT
WOM WALK-OFF MAT
WP WATERPROOFING
WPT WORKING POINT
W.R. WASTE RECEPTACLE
WS WATER STOP
WSCT WAINSCOT
WT WEIGHT
WWB WATER-RESISTANT WALL BD
WWF WELDED WIRE FABRIC

Z ZONE

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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TEL:618.975.9025

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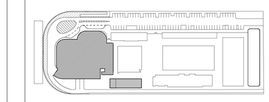
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
PROJECT DATA

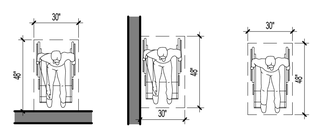
PROJECT NUMBER: 010326.000
DATE: 03/16/22
SCALE: 1" = 1'-0"

SHEET
G-002

8/26/2022 5:30:04 PM

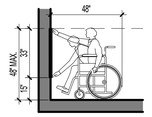
CHAPTER 11 ACCESIBILITY

GENERAL ACCESS AND MANEUVERING CLEARANCES



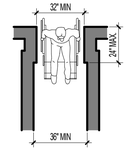
(A) FORWARD APPROACH (B) PARALLEL APPROACH (C) CLEAR FLOOR SPACE

1. MINIMUM CLEAR FLOOR SPACES

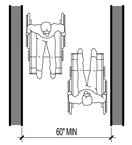


(A) FORWARD REACH LIMIT (B) MAXIMUM FORWARD REACH OVER AN OBSTRUCTION (B) UNOBSTRUCTED SIDE REACH

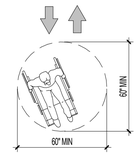
2. REACH RANGES



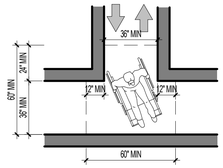
3. MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR



4. MINIMUM CLEAR WIDTH FOR TWO WHEELCHAIRS

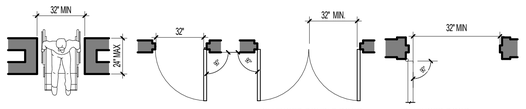


5.(A) WHEELCHAIR TURNING RADIUS



5.(B) T-SHAPED TURNING RADIUS

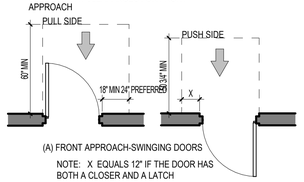
NOTE: DASHED LINE INDICATES MINIMUM LENGTH OF CLEAR SPACE ERQUIRED ON EACH ARM OF THE T-SHAPED SPACE IN ORDER TO COMPLETE THE TURN



(A) MAXIMUM DOORWAY DEPTH (B) HINGED DOOR CLEARANCE (C) HINGED DOUBLE DOOR CLEARANCE (D) HINGED DOOR CLEARANCE DETAIL

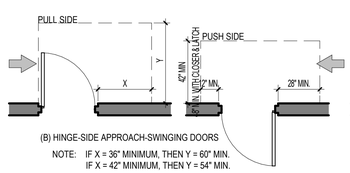
6.CLEAR DOORWAY WIDTH AND DEPTH

NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH CLEARANCES FOR FRONT APPROACH



(A) FRONT APPROACH-SWINGING DOORS

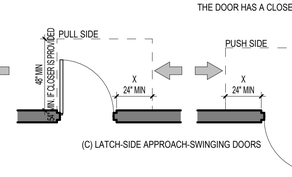
NOTE: X EQUALS 12" IF THE DOOR HAS BOTH A CLOSER AND A LATCH



(B) HINGE-SIDE APPROACH-SWINGING DOORS

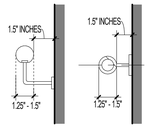
NOTE: IF X = 36" MINIMUM, THEN Y = 60" MIN.
IF X = 42" MINIMUM, THEN Y = 54" MIN.

NOTE: Y = 48" MINIMUM IF THE DOOR HAS A CLOSER



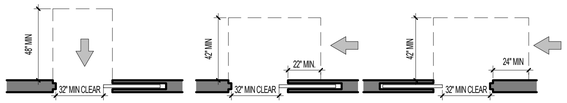
(C) LATCH-SIDE APPROACH-SWINGING DOORS

6. MANEUVERING CLEARANCES AT DOORS



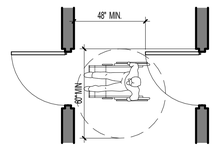
(B) HANDRAIL (B) GRAB BAR

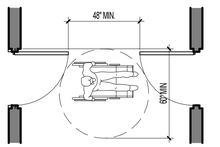
8. GRAB BAR AND HANDRAIL

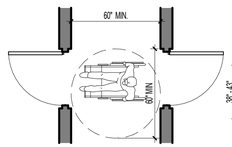


(D) FRONT APPROACH-SLIDING DOORS AND FOLDING DOORS (E) POCKET OR HINGE APPROACH-SLIDING DOORS AND FOLDING DOORS (F) LATCH-SIDE APPROACH-SLIDING DOORS AND FOLDING DOORS

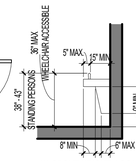
9. MANEUVERING CLEARANCES AT DOORS



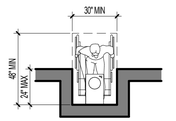




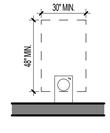
10. 2 HINGED DOORS IN SERIES



(A) SPOUT HEIGHT, LOCATION AND KNEE CLEARANCE

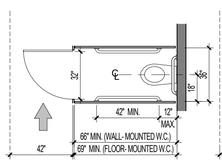


(B) FORWARD APPROACH

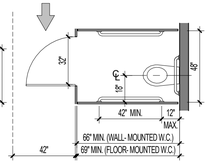


(C) FREE-STANDING FOUNTAIN OR COOLER WITH FORAWRD APPROACH

11. DRINKING FOUNTAIN AND WATER COOLERS

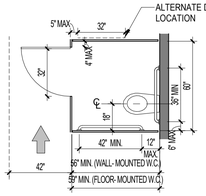


(A) AMBULATORY STALLS

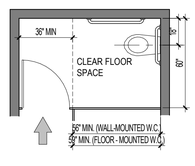


(B) ALTERNATE STALLS

NOTE: 42" LATCH APPROACH ONLY, OTHER APPROACHES 48"

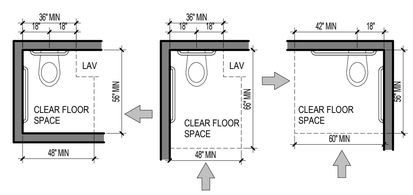


(C) WHEELCHAIR ACCESSIBLE COMPARTMENTS

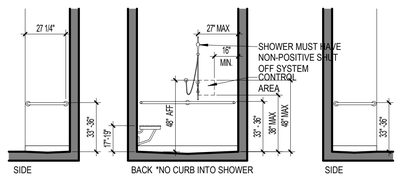


D. WHEELCHAIR ACCESSIBLE COMPARTMENTS - ALTERNATE

12. TOILET STALL - PUBLIC RESTROOMS

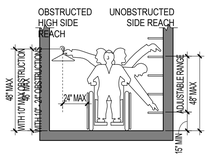


18. CLEAR FLOOR SPACE AT WATER CLOSETS IN RESIDENTIAL UNITS

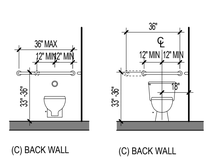


NOTE: SHOWER HEAD AND CONTROL AREA MAY BE ON BACK WALL (AS SHOWN) OR ON EITHER SIDE WALL

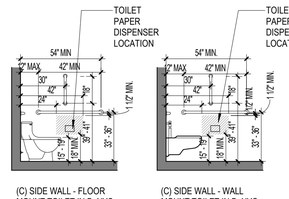
19. STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS: 30" BY 60" STALL



13. STORAGE SHELVES AND CLOSETS

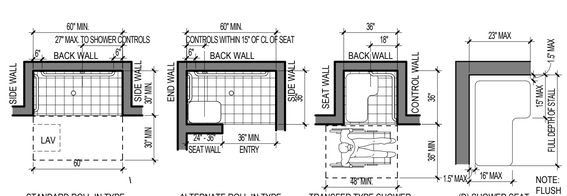


(C) BACK WALL (C) BACK WALL



(C) SIDE WALL - FLOOR MOUNT TOILET IN B+NYC UNITS (C) SIDE WALL - WALL MOUNT TOILET IN B+NYC UNITS

14. WATER CLOSETS AND URINALS



STANDARD ROLL-IN TYPE SHOWER WITHOUT SEAT

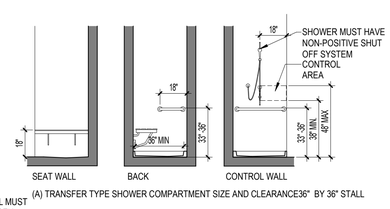
ALTERNATE ROLL-IN TYPE SHOWER WITH SEAT

TRANSFER TYPE SHOWER COMPARTMENT

(D) SHOWER SEAT DESIGN

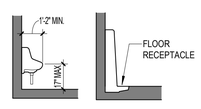
NOTE: FLUSH CONTROL MUST BE ON OPEN SIDE.

22. SHOWER SIZES AND CLEARANCES



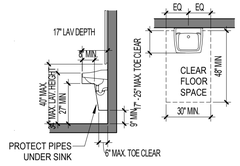
(A) TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE36" BY 36" STALL

23. GRAB BARS AT ROLL-IN SHOWER



(A) ELONGATED WALL MOUNT (B) STALL TYPE

15. URINALS



16. LAVATORY CLEARANCES

CODE:
ICC A117.1-2009 (A117.1)

FEDERAL LAW:
UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)
AMERICANS WITH DISABILITIES ACT (ADA)
PUBLIC-USE SPACES: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (2010 ADA STANDARDS)

NOTES::

1. IN THE EVENT OF ANY CONFLICT OF DIMENSIONS BETWEEN THIS SHEET AND THE DIMENSIONS AND CLEARANCES ELSEWHERE IN THESE DRAWINGS, THE DIMENSIONS AND CLEARANCES SHOWN ON THIS SHEET PREVAIL.

2. BLOCKING MUST BE PROVIDED AT ALL WALL-MOUNTED FIXTURES/DEVICES; AND BLOCKING FOR MIRRORS/CABINETS MUST BE CERTIFIED TO HANDLE MANUFACTURER'S WEIGHT OF ASSEMBLY; BLOCKING FOR GRAB BARS MUST BE SUITABLE TO ACHIEVE COMPLIANCE WITH APPLICABLE STATE AND LOCAL CODES FOR LOAD SUPPORT FOR GRAB BARS.

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
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FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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DEERFIELD BEACH, FL 33442
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COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
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TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
GENERAL NOTES - ACCESSIBILITY

PROJECT NUMBER: 010326.000
DATE: 03/16/22
SCALE: 1/4" = 1'-0"

SHEET
G-004

CAM 23-0723
Exhibit 1M
Page 3 of 169

8/26/2022 5:30:06 PM

CHAPTER 11 ACCESIBILITY

ACCESSIBLE KITCHENS

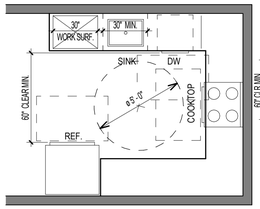


FIG. 804.2.2 - U-SHAPE KITCHEN CLEARANCE

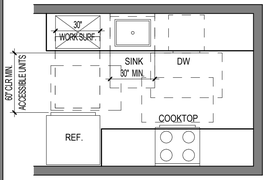


FIG. 804.2.2 - U-SHAPED KITCHEN CLEARANCE

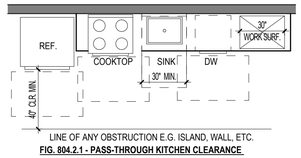
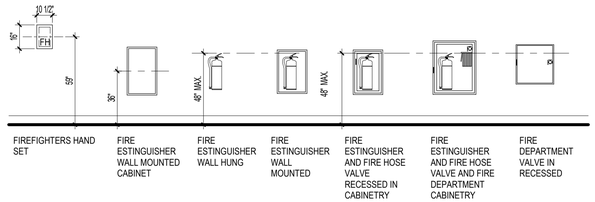
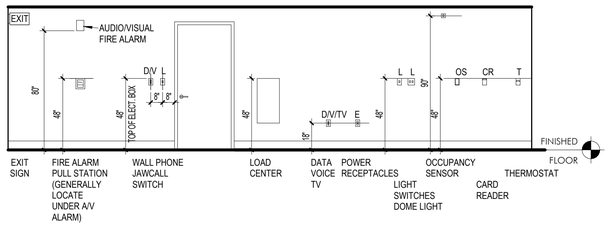


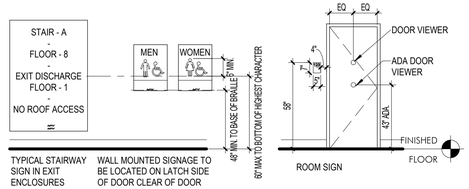
FIG. 804.2.1 - PASS-THROUGH KITCHEN CLEARANCE

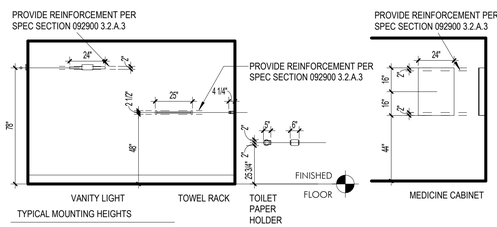
KITCHENS

GENERAL NOTES & TYPICAL MOUNTING HEIGHTS

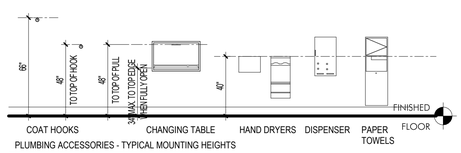




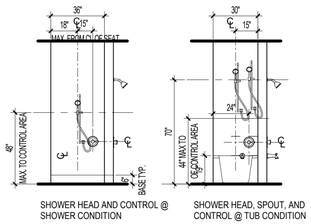




TYPICAL MOUNTING HEIGHTS

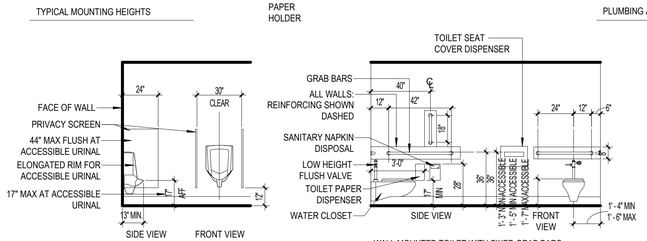


PLUMBING ACCESSORIES - TYPICAL MOUNTING HEIGHTS

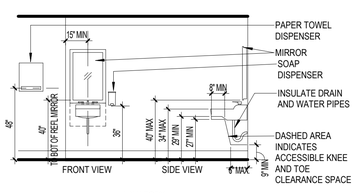


SHOWER HEAD AND CONTROL @ SHOWER CONDITION

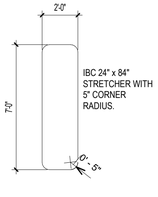
SHOWER HEAD, SPOUT, AND CONTROL @ TUB CONDITION

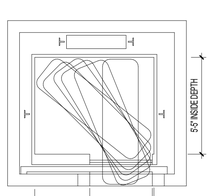


WALL MOUNTED TOILET WITH FIXED GRAB BARS

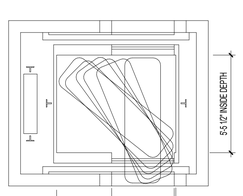


LAVATORY





3500# SINGLE-SPEED SIDE OPENING FRONT ONLY DOOR



3500# SINGLE-SPEED SIDE OPENING FRONT/REAR DOOR

STRETCHER ACCESS DIAGRAMS

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
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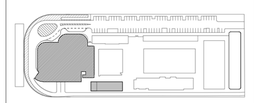
KEY PLAN:



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GENERAL NOTES - ACCESSIBILITY AND MOUNTING HEIGHTS

PROJECT NUMBER: 010326.000
DATE: 03/16/22
SCALE: 1/4" = 1'-0"

SHEET
G-005

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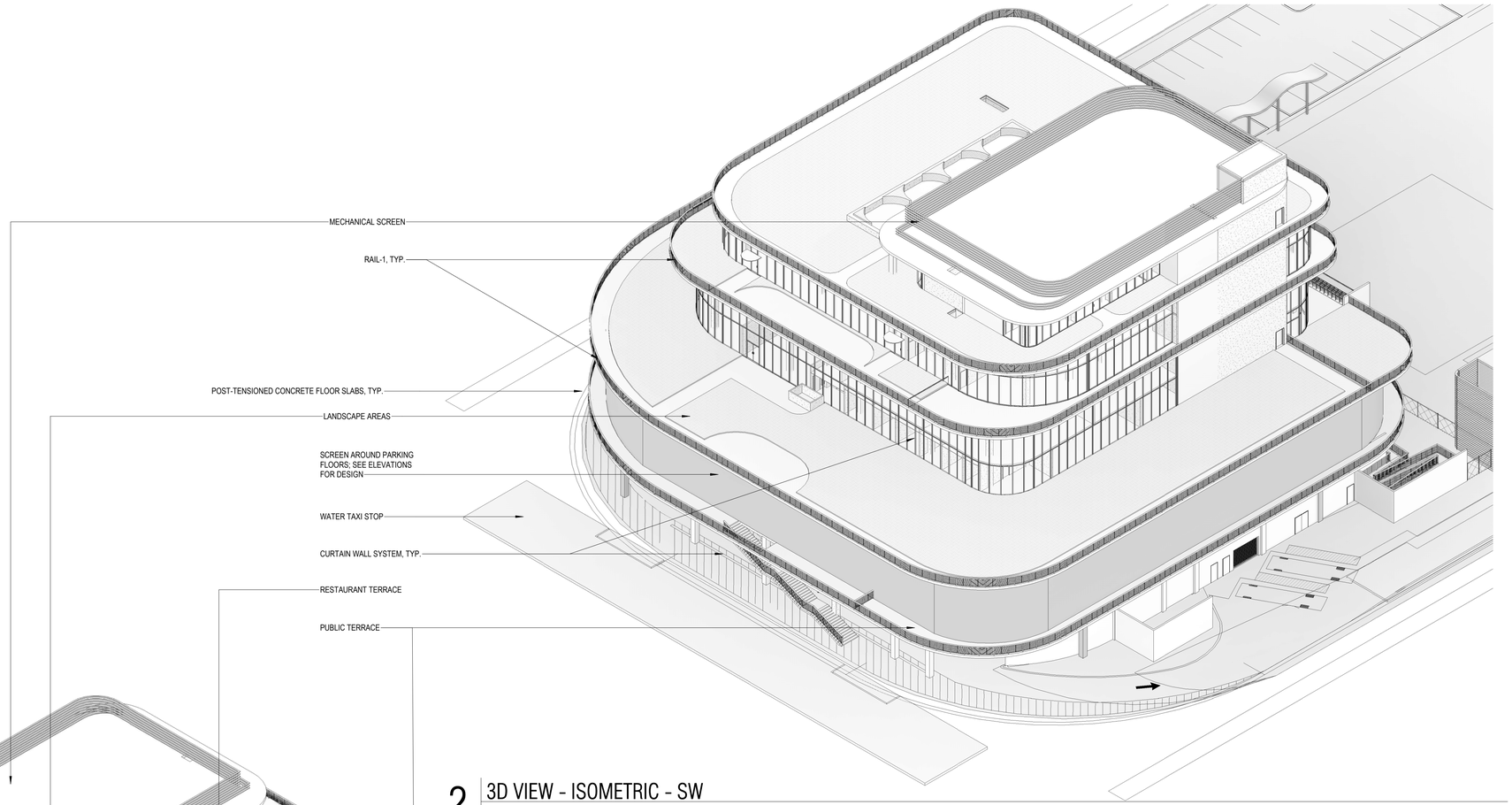
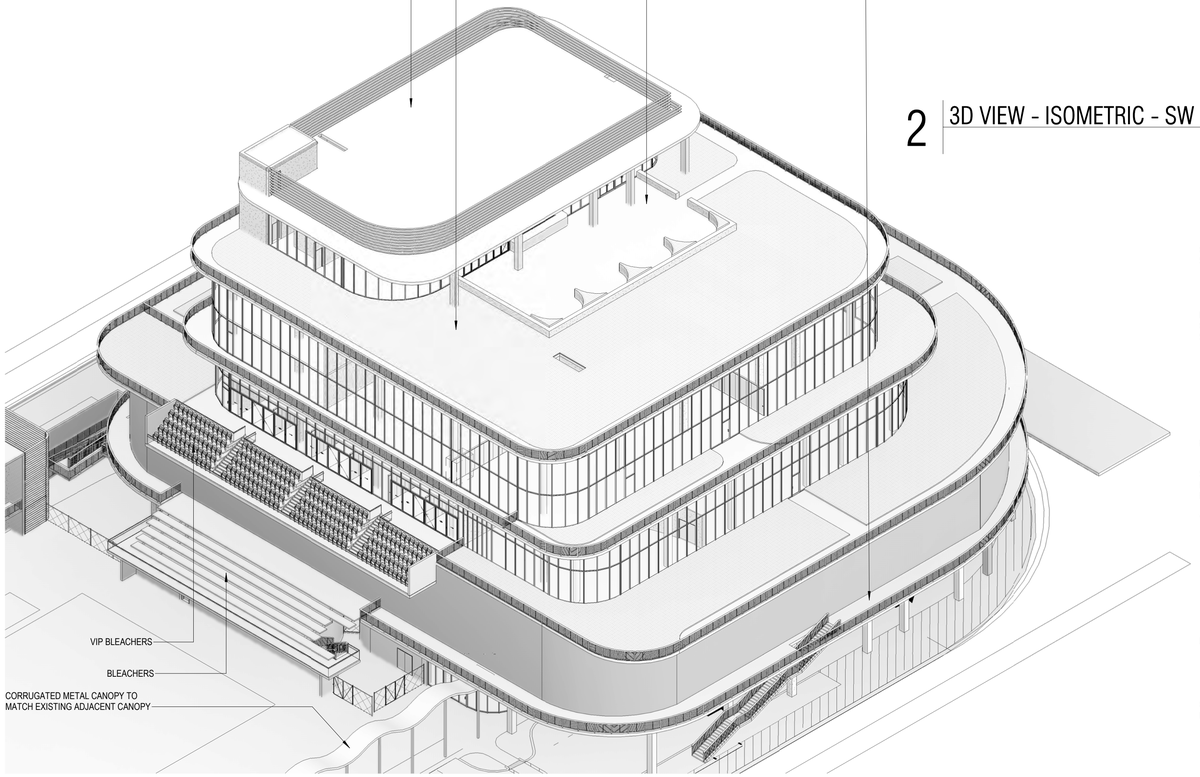
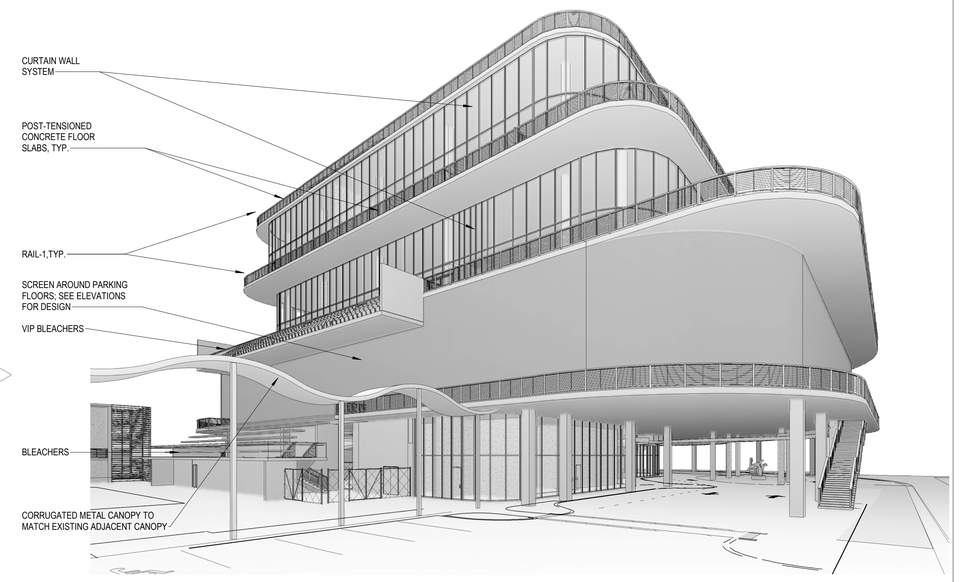


2 3D VIEW - ISOMETRIC - SW



1 3D VIEW - ISOMETRIC - NE



3 3D VIEW - EXTERIOR - LOBBY ENTRANCE

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THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
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KEITH
2312 S ANDREWS AVE
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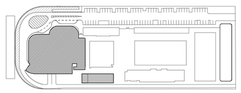

△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
3D VIEWS - EXTERIOR

PROJECT NUMBER: 010326.000
DATE: 03/16/22
SCALE:

SHEET
G-006

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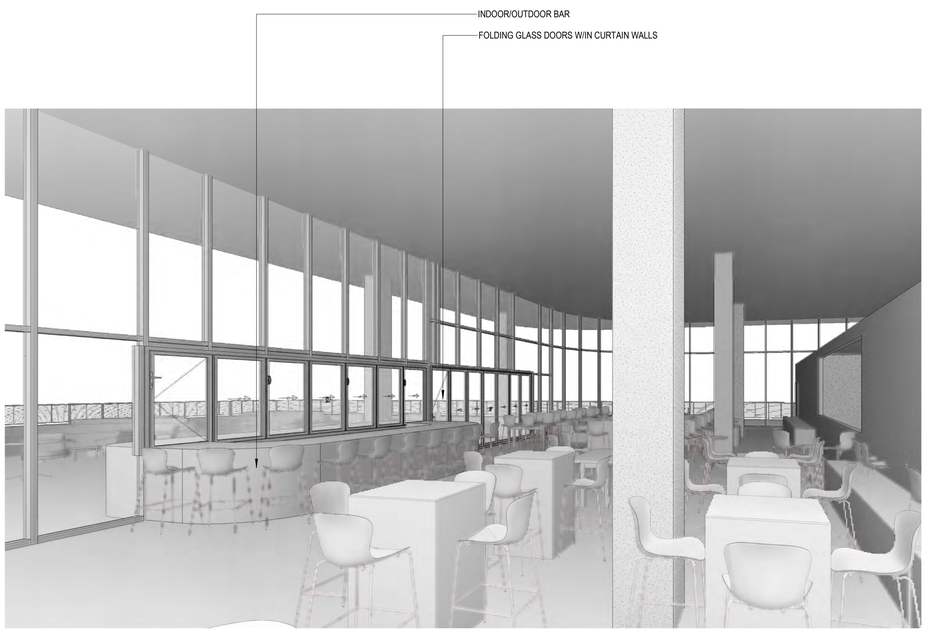
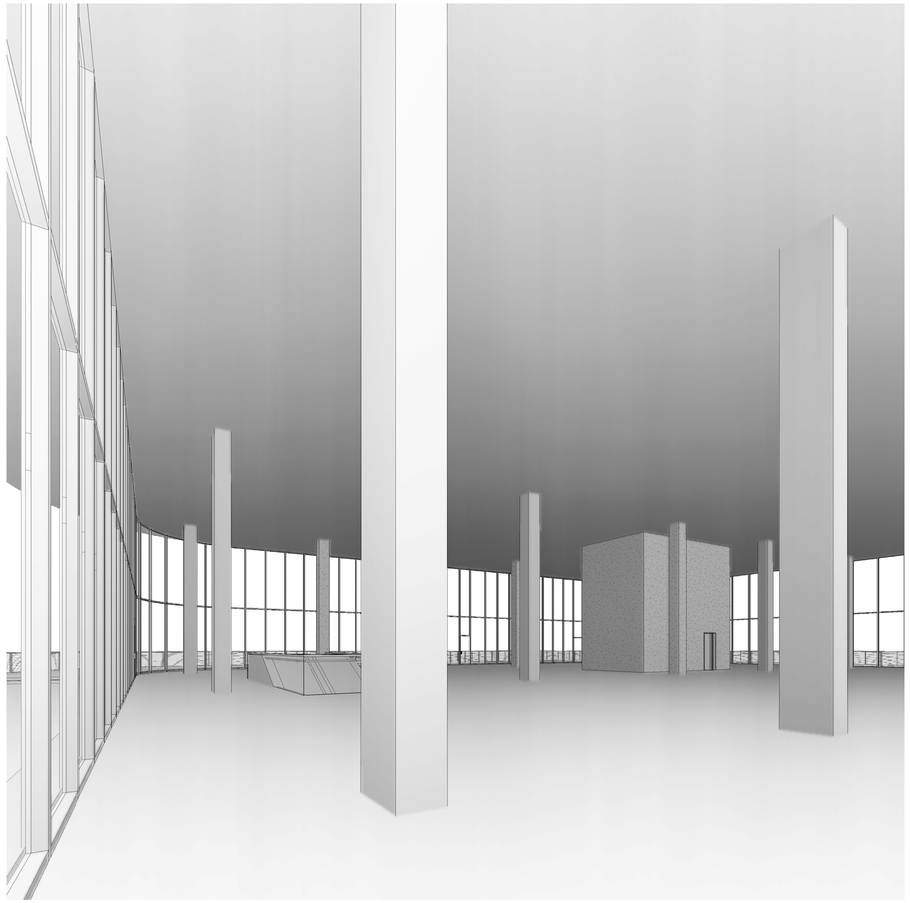
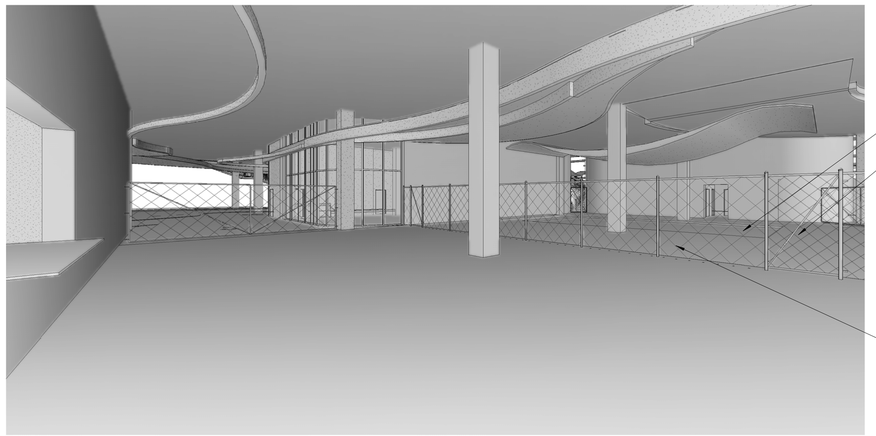


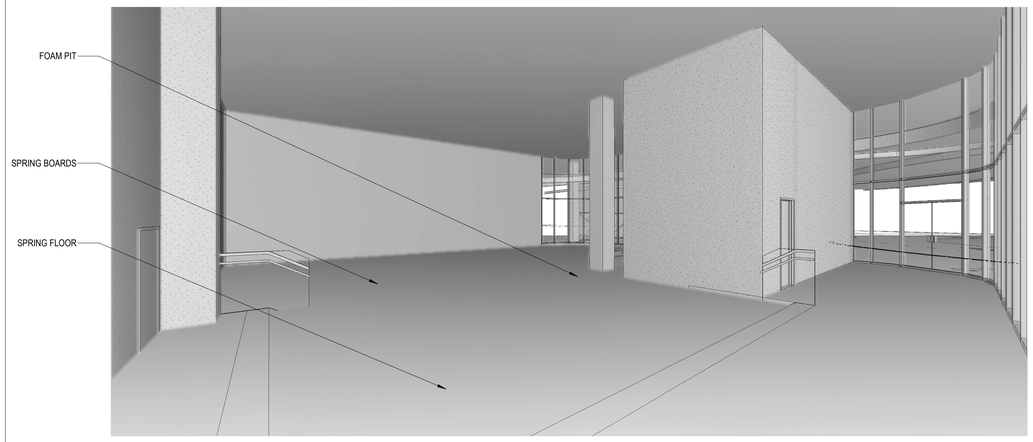
4 3D VIEW - INTERIOR - LVL 06 RESTAURANT



3 3D VIEW - INTERIOR - LVL 05 EVENT SPACE



2 3D VIEW - INTERIOR - LVL 01 CANTEEN SEATING AND POOL DECK



1 3D VIEW - INTERIOR - LVL 01 DRYLAND TRAINING

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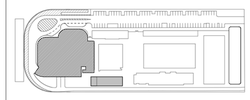

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PROJECT NORTH:

DRAWING TITLE
3D VIEWS - INTERIOR

PROJECT NUMBER: 010326.000
DATE: 03/16/22
SCALE:

SHEET
G-007

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
A / CP-301	PROPOSED SECTION MARKER INDICATING THE SECTION LETTER AND THE SHEET ON WHICH THE SECTION VIEW APPEARS.
22 / C-05	DETAIL REFERENCE CALL OUT INDICATING THE DETAIL NUMBER AND THE SHEET ON WHICH THE DETAIL VIEW APPEARS.
1	REVISION TRIANGLE NUMBER
	MISC BREAK LINES
PIC#	PHOTO LOCATION AND CORRESPONDING PICTURE NUMBER.
N: 623025.4322 E: 850262.1786	COORDINATE VALUES SHOWN ON PROPOSED IMPROVEMENTS ARE RELATIVE TO THE COORDINATE VALUES INDICATED ON THE RIGHT-OF-WAY, PROPERTY CORNERS OR REFERENCE MONUMENT

GEN SITE & PMS

SYMBOL	DESCRIPTION
	PAVEMENT MARKING ARROWS
	STOP BAR
	ADA PARKING
	CONCRETE CAR STOP
	BICYCLE
	BICYCLE RACK
	AUTOMOBILE
	POST MOUNTED SIGNS 1,2, DOUBLE POST & 4 WAY
33	PARKING SPACE NUMBER
B C P E M	BASELINE, CENTER, PROPERTY, FLOW & MONUMENT LINE
	BUILDING ACCESS (ADA) / (NON-ADA)

PAVING & GRADING

SYMBOL	DESCRIPTION
0.04% 0.04%	FLOW DIRECTIONAL ARROW
6"	ELEVATION CHANGE
5.00 5.00	MAJOR / MINOR CONTOUR ELEVATION
13.56	GRADE ELEVATION
13.56 / 22.00	TOP OF CURB / PAVEMENT ELEVATION
MEG	MATCH EXISTING GRADE
	SLOPE BANK
A-1 24'	DRIVEWAY TURNOUT IDENTIFICATION (FDOT INDEX 522-003) W/ DRIVE WIDTH
CR-7	SIDEWALK CURB RAMP (PER FDOT INDEX 522-002)
	SEAWALL

UTILITY PIPES

SYMBOL	DESCRIPTION
	PIPE FITTINGS: TEE, 90, 45, 22.5, 11.2, CAP,
	CAP W/FVO, REDUCER, VERTICAL, PLUG
	VALVES: GATE, BUTTERFLY, DOUBLE BTRFLY, BFP, DDCV, VACUUM BREAKER
MBO ABO ARV	MAN/AUTO BLOWOFF, ARV, PIV, FLUSH VLV, CORP STOP
SP# HYD FDC WW	SAMPLE PNT, HYDRANT, FDC, WATER WELL
	TAPPING SADDLE
SD	EXFILTRATION TRENCH
W	PIPE CASING
V	VENT PIPE BOX
22	UTILITY CROSSING TABLE REFERENCE
22	UTILITY CROSSING

HATCH PATTERNS

SYM	DESCRIPTION	SYM	DESCRIPTION
	CONCRETE AREA		BRICK PAVERS
	JOGGING PATH		SOIL TRACKING PREVENTION DEVICE
	PAVEMENT AREA		SAND (DETAIL / ELEVATION)
	BUILDING HATCH		EARTH (DETAIL / ELEVATION)
	MILLING AND RESURFACING		GRAVEL (DETAIL / ELEVATION)
	DETECTABLE WARNING PER FLORIDA CODE		GRASS AREA
	DEMOLITION AREA		ADA STRIPING

UTILITY STRUCTURES

SYMBOL	DESCRIPTION
CB	FDOT C,D,E,F,G & FABRIC CATCH BASIN
CB MH SS	NON-FDOT ROUND CB'S & MANHOLES, MDC STRUCTURE
	FDOT CURB INLETS TYPE1-TYPE10
	TRENCH DRAIN
	PIPE CULVERT - MITERED END SECTION
	STRAIGHT ENDWALL
PS#	PUMP STATION LOCATION AND NUMBER
	GREASE TRAP SINGLE AND DOUBLE
	SEPTIC TANK
	SEPTIC DRAIN FIELD
	DRAINAGE WELL, DRAIN C.B., CONTROL STRUCTURE
MW	MONITORING WELL
WELL	WATER WELL
M	METER BOX WATER AND IRRIGATION
YD DD DD	YARD DRAIN / 9" DECK DRAIN ROUND & SQUARE
CO CO CO	CLEAN OUT 6", 4" & BOX
22	STORM STRUCTURE TABLE REFERENCE NUMBER
22	SEWER STRUCTURE TABLE REFERENCE NUMBER

XX — CONST. 5' Ø CB
RIM EL. = 12.88
N INV. ELEV. = 4.50' - XX" DIP
E INV. ELEV. = 4.50' - XX" DIP
S INV. ELEV. = 4.50' - XX" DIP
W INV. ELEV. = 4.50' - XX" DIP

SEWER STRUCTURE CALLOUT (SHOWN AS A CIRCLE CIRCUMSCRIBING THE STRUCTURE NUMBER.)

XX — CONST. 5' Ø CB
RIM EL. = 12.88
N INV. ELEV. = 4.50' - XX" DIP
E INV. ELEV. = 4.50' - XX" DIP
S INV. ELEV. = 4.50' - XX" DIP
W INV. ELEV. = 4.50' - XX" DIP

STORM STRUCTURE CALLOUT (SHOWN AS A HEXAGON CIRCUMSCRIBING THE STRUCTURE NUMBER.)

INDICATES STRUCTURE NUMBER, STATION & OFFSET, STRUCTURE SIZE & TYPE, RIM/GRATE ELEVATION, PIPE INVERT ELEVATIONS & DIRECTION, PIPE SIZE & MATERIAL AS WELL AS ANY SPECIAL NOTES.

LINE TYPES

PROPOSED UTILITIES	
W	WATER LINE
SAN	SANITARY SEWER
FM	FORCE MAIN
LFM	LOW PRESSURE FM
SD	STORM DRAIN
PSD	PRESSURE STORM
IRR	IRRIGATION
RAW	RAW WATER
RCW	RECLAIMED WATER
G	GAS LINE

PAVEMENT MARKING	
	STRIPE SKIP 2-4
	STRIPE SKIP 3-9
	STRIPE SKIP 6-10
	STRIPE SKIP 10-30
	STRIPE SKIP 10-10-20
	STRIPE SKIP 2-2-2

GENERAL SITE	
	DEMOLITION
	TURBIDITY BARRIER
	PARKING STRIPING (SINGLE)
	BUILDING SETBACK
	FIRE TRUCK PATH
	SIGHT TRIANGLE
	BUILDING FOOTPRINT
	VEHICLE OVERHANG
O	CONSTRUCTION LIMITS
SF SF	SILT FENCE
SSF	SUPER SILT FENCE
	PARKING STRIPING (DOUBLE)

TOPO	
	BREAKLINE
	MAJOR CONTOUR
	MINOR CONTOUR
	TOP OF BANK
	TOE OF SLOPE
	EDGE OF WATER
CLS CLS	CENTERLINE OF SWALE

ABBREVIATIONS

ABBRV	DESCRIPTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL
BIT.	BITUMINOUS
BC	BACK OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWY	DRIVEWAY
ELEV (OR EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (OR EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MEG	MATCH EXISTING GRADE
MH	MANHOLE
MIN	MINIMUM
NIC	NOT IN CONTRACT

ABBREVIATIONS CONTINUED

ABBRV	DESCRIPTION
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
RT	RIGHT
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TSV	TAPPING SLEEVE AND VALVE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

LINE WEIGHTS

EXISTING	SHADED LINES & TEXT DENOTE EXISTING EQUIPMENT AND STRUCTURES.
FUTURE	NON-SHADED DASHED LINES & TEXT DENOTE FUTURE EQUIPMENT, STRUCTURES AND WORK.
PROPOSED / CONSTRUCT	NON-SHADED, BOLD, SOLID LINES & TEXT DENOTE PROPOSED EQUIPMENT, STRUCTURES AND WORK.

NOTE: THIS IS A STANDARD LEGEND SHEET. NOT ALL ITEMS ARE PERTINENT TO THIS SET OF DRAWINGS

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

DRAWN BY: NW/FA | DATE: 04/19/2022
DESIGNED BY: JW | SCALE: AS NOTED
CHECKED BY: TD | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
LEGEND AND ABBREVIATIONS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. GI-001 | OF
TOTAL:
CAD FILE: 11405.00-GI-000
DRAWING FILE NO. TBD

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Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Engineering\Cadd\11405.00-GI-000.dwg Layout Name: GI-001-GEN Plotted on: Jun 30, 2022 - 6:14pm

GENERAL NOTES

THIS CONSTRUCTION PROJECT MAY OR MAY NOT INCLUDE ALL ITEMS COVERED BY THESE NOTES AND SPECIFICATIONS, I.E. PAVING, GRADING, DRAINAGE LINES, WATER LINES, OR SANITARY SEWER LINES. SEE PLANS FOR DETAILED PROJECT SCOPE. NOTES AND SPECIFICATIONS ON THIS SHEET REFER TO PAVING, GRADING, DRAINAGE, WATER, AND SANITARY SEWER, AND ARE INTENDED FOR THIS PROJECTS SCOPE OF WORK AND FOR REFERENCE PURPOSES FOR OTHER WORK ITEMS THAT MAY BE REQUIRED DUE TO UNFORESEEN EXISTING CONDITIONS OR REQUIRED REMEDIAL WORK.

1. SPECIFIC SITE NOTES

1.1. COUNTY AND "CITY" IN THESE NOTES REFERS TO COUNTY AND CITY IN WHICH PROJECT RESIDES.

1.2. STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA.

1.3. EXISTING TOPOGRAPHIC INFORMATION IN THE PLANS IS BASED ON SURVEY DATA AND BEST AVAILABLE INFORMATION. SEE PROJECT SURVEY AND NOTES ON PLAN SHEETS REGARDING THE SOURCE OF THE TOPOGRAPHIC INFORMATION.

2. APPLICABLE CODES

2.1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY, AND ALL OTHER JURISDICTIONAL, STATE AND NATIONAL CODES WHERE APPLICABLE.

2.2. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS, AND THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATION BOOKLET, THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION.

2.3. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND JURISDICTIONAL SAFETY AND HEALTH REGULATIONS.

2.4. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH FEDERAL, STATE, COUNTY, AND CITY LAWS, CODES, AND REGULATIONS.

2.5. ALL HANDICAP ACCESSIBLE AREAS TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), STATE ADA CODES, AND FLORIDA BUILDING CODE ADA CODES LATEST EDITION.

2.6. TRENCH SAFETY ACT

2.6.1. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT).

2.6.2. ALL TRENCH EXCAVATION IN EXCESS OF 5 FEET IN DEPTH SHALL BE UNDERTAKEN IN ACCORDANCE WITH O.S.H.A. STANDARD 29 CFR. SECTION 1926.650 SUBPART P.

2.6.3. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.

2.6.4. A TRENCH SAFETY SYSTEM, IF REQUIRED, SHALL BE DESIGNED BY THE EXCAVATION CONTRACTOR UTILIZING A SPECIALTY ENGINEER AS REQUIRED.

3. CONSTRUCTION NOTES:

3.1. CONTRACTOR SHALL TIE TO EXISTING GRADE BY EVENLY SLOPING FROM CLOSEST PROPOSED GRADE PROVIDED TO EXISTING GRADE AT LIMITS OF CONSTRUCTION, UNLESS OTHERWISE NOTED ON THE PLANS. IF NO LIMIT OF WORK LINE IS INDICATED, SLOPE TO ADJACENT PROPERTY LINE OR RIGHT-OF-WAY LINE, AS APPLICABLE.

3.2. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL EXISTING MANHOLES, CATCH BASINS, METERS AND OTHER STRUCTURES, WHETHER INDICATED ON THE PLANS OR NOT SHALL BE ADJUSTED TO MATCH THE NEW GRADE, BY THE CONTRACTOR.

3.3. THE CURB SHALL BE SLOPED TO ACCOMMODATE THE NEW PAVEMENT, CATCH BASIN AND GRATE, AND THE SURFACE FLOW PATTERN.

3.4. THE CONTRACTOR SHALL USE CARE WHEN CUTTING THE EXISTING ASPHALT PAVEMENT AND DURING EXCAVATIONS, SO THAT THE EXISTING CATCH BASINS AND GRATES THAT ARE TO REMAIN WILL NOT BE DAMAGED.

3.5. THE CONTRACTOR SHALL MAINTAIN THE ROADWAY SLOPE WHEN RESURFACING THE ROADWAY. THE EDGE OF PAVEMENT SHALL MATCH THE NEW GUTTER LIP PER FDOT INDEX 520-001.

3.6. THE NEW SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GIVEN ELEVATIONS AND AT THE PROPER SLOPES DEPICTED IN THE SPECIFICATIONS, DETAILS AND STANDARDS. EXISTING DRIVEWAYS AND OTHER FEATURES SHALL BE MATCHED WHEN POSSIBLE AS DIRECTED BY THE ENGINEER.

3.7. RADII SHOWN ARE TO THE EDGE OF PAVEMENT.

3.8. ALL BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS.

3.9. ALL EXCESS MATERIAL IS TO BE DISPOSED BY THE CONTRACTOR WITHIN 72 HOURS.

3.10. IN AREAS WHERE THE BASE IS EXPOSED BY THE MILLING OPERATION, THE CONTRACTOR SHALL RESTORE THE BASE TO ITS ORIGINAL THICKNESS AND STRUCTURAL CAPACITY BEFORE PAVING OVER SUCH AREAS. THIS INCLUDES BUT IS NOT LIMITED TO RESTORING ORIGINAL DEGREE OF COMPACTION, MOISTURE CONTENT, COMPOSITION, STABILITY, AND INTENDED SLOPE. IF PAVING WILL NOT TAKE PLACE THE SAME DAY THE BASE IS EXPOSED AND REWORKED, THE BASE SHALL BE SEALED ACCORDING TO THE GOVERNING STANDARDS AND SPECIFICATIONS. ANY ADDITIONAL WORK RESULTING FROM THE CONTRACTOR'S FAILURE TO PROTECT THE EXPOSED BASE AS STATED ABOVE IN ORDER TO RESTORE THE ORIGINAL STRUCTURAL CAPACITY SHALL BE THE CONTRACTOR'S COST.

3.11. THE CONTRACTOR IS TO MAINTAIN EXISTING SIGNAGE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

3.12. THE TOPOGRAPHIC SURVEY INCLUDED WITH THIS SET OF PLANS REFLECTS PRE-DEMOLITION CONDITIONS AND DOES NOT REFLECT THE SITE CONDITIONS AFTER DEMOLITION. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE IN DETERMINING THE REQUIRED EARTHWORK FOR THE PROPOSED DEVELOPMENT OF THE SITE. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY EXCAVATION/DREDGE AND FILL ACTIVITIES REQUIRED AT ANY PHASE OF THE PROJECT. THE CONTRACTOR SHALL USE THE FINAL APPROVED (RELEASED FOR CONSTRUCTION) PLANS, SURVEYS, GEOTECHNICAL REPORTS, AND ANY OTHER AVAILABLE INFORMATION FOR DETERMINING THE AMOUNT OF EXCAVATION/DREDGING AND FILLING REQUIRED. ANY QUANTITIES INCLUDED IN THE APPROVED PERMITS WERE ESTIMATED BY THE ENGINEER FOR PURPOSES OF OBTAINING THE PERMIT AND UNDER NO CIRCUMSTANCES SHALL BE USED BY THE CONTRACTOR IN LIEU OF PERFORMING THEIR OWN EARTHWORK CALCULATIONS REQUIRED FOR COST ESTIMATING AND BIDDING THE PROJECT.

3.13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ANY AND ALL AVAILABLE GEOTECHNICAL REPORTS PREPARED BY OTHERS AND/OR ANY RECOMMENDATIONS WRITTEN OR IMPLIED BY THE GEOTECHNICAL ENGINEER FOR THIS PROJECT. THE GEOTECHNICAL CONDITIONS AND RECOMMENDATIONS OUTLINED IN THESE REPORTS ARE IN FORCE AND IN FULL EFFECT AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL THE WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. KEITH AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE SUITABILITY OR UNSUITABILITY OF THE SOILS ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MEANS AND METHODS OF CONSTRUCTION USED CAN AND WILL ALLOW FOR THE SUCCESSFUL COMPLETION OF THE REQUIRED SITE IMPROVEMENTS.

3.14. THE CONTRACTOR SHALL ENSURE THAT THE AVAILABLE GEOTECHNICAL INFORMATION IS SUFFICIENT FOR HIS COMPLETE UNDERSTANDING OF THE SOIL CONDITIONS FOR THE SITE. IF ADDITIONAL GEOTECHNICAL INVESTIGATION IS REQUIRED BY THE CONTRACTOR, THIS ADDITIONAL WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

3.15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, SPRINKLER HEADS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS AND SHALL RESTORE AT NO ADDITIONAL COST.

3.16. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION FROM THE OWNER, CITY AND ENGINEER. THE CONTRACTOR SHALL PROVIDE THE OWNER, CITY AND ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE PROJECT ENGINEER SHALL COORDINATE WITH THE OWNER AND CITY PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR.

3.17. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE CITY AND/OR ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE CITY AND/OR ENGINEER ARE TO NOTIFY THE OWNER/ENGINEER OF THE DISCOVERY. THE OWNER/ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER.

3.18. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE CITY ENGINEERING INSPECTOR AND ENGINEER 48 HOURS IN ADVANCE OF THE EVENT TO NOTIFY THE CITY OF CONSTRUCTION START UP, OR TO SCHEDULE ALL REQUIRED TESTS AND INSPECTIONS INCLUDING FINAL WALK-THROUGHS.

4. PRECONSTRUCTION RESPONSIBILITIES

4.1. ALL UTILITY / ACCESS EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION.

4.2. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL MUNICIPAL, STATE, COUNTY, AND FEDERAL AGENCIES AND A PRE-CONSTRUCTION MEETING HAS BEEN CONDUCTED.

4.3. ALL REQUIRED GOVERNMENTAL AGENCY BUILDING PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITY.

4.4. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE UTILITY DEPARTMENT THAT OWNS AND/OR MAINTAINS THE WATER AND SEWER LINES.

4.5. PRIOR TO THE START OF CONSTRUCTION, THE OWNER SHALL SUBMIT AN NPDES CONSTRUCTION GENERAL PERMIT (CGP) "NOTICE OF INTENT (N.O.I.) TO USE GENERIC PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITIES FORM (DEP FORM 62-621.300(4)(B)) TO FDEP NOTICES CENTER. THE CONTRACTOR WILL BE RESPONSIBLE FOR (1) IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT WAS REQUIRED TO BE DEVELOPED PRIOR TO NOI SUBMITTAL, AND (2) RETENTION OF RECORDS REQUIRED BY THE PERMIT, INCLUDING RETENTION OF A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL SITE STABILIZATION. A "NOTICE OF TERMINATION (N.O.T.) OF GENERIC PERMIT COVERAGE" FORM (DEP FORM 62-621.300(6)) MUST BE SUBMITTED TO FDEP TO DISCONTINUE PERMIT COVERAGE, SUBSEQUENT TO COMPLETION OF CONSTRUCTION. FOR ADDITIONAL INFORMATION SEE FDEP WEBSITE: HTTP://WWW.DEP.STATE.FL.US/WATER/ STORM WATER/NPDES.

4.6. PRIOR TO CONSTRUCTION OR INSTALLATION, 5 SETS OF SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AS REQUIRED FOR THE FOLLOWING ITEMS LISTED BELOW, BUT NOT LIMITED TO:

- DRAINAGE: CATCH BASINS, MANHOLES, HEADWALLS, GRATES/TOPS, YARD DRAINS.
- WATER: FIRE HYDRANTS, VALVES, BACKFLOW PREVENTER, DDCV, METER BOX.
- SEWER: MANHOLES, LIFT STATIONS (WETWELL, HATCHES, VALVES, PUMP DATA, ELECTRICAL PANEL)

4.0.1. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR DRAINAGE, WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES.

4.0.2. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEER'S PLANS OR SPECIFICATIONS.

4.0.3. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

4.7CONTRACTOR TO SUBMIT MAINTENANCE OF TRAFFIC PLAN(S) IN ACCORDANCE WITH FDOT AND COUNTY REQUIREMENTS, AND SUBMIT FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.

5. INSPECTIONS / TESTING:

5.1. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER, CITY, COUNTY, ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO REQUIRED INSPECTIONS OF THE FOLLOWING ITEMS, WHERE APPLICABLE:

- CLEARING AND EARTHWORK
- STORM DRAINAGE SYSTEMS
- SANITARY SEWER SYSTEMS
- WATER DISTRIBUTION SYSTEMS
- SUBGRADE
- LIMEROCK BASE
- ASPHALT OR CONCRETE PAVEMENT
- SIDEWALKS, CONCRETE FLATWORK/CURBING
- LANDSCAPING
- PAVEMENT MARKING AND SIGNAGE
- SIGNALIZATION
- SITE LIGHTING
- ELECTRICAL AND COMMUNICATION LINES
- UTILITY CONDUITS
- IRRIGATION
- FINAL

5.1. THE OWNER, ENGINEER, AND JURISDICTIONAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS.

5.3. TESTING - ALL TESTING REQUIRED BY THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED BY A LICENSED / FDOT QUALIFIED TESTING COMPANY. REQUIRED TEST FOR ASPHALT AND LIMEROCK SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE JURISDICTIONAL GOVERNMENTAL AGENCY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

6. TEMPORARY FACILITIES

6.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, COMMUNICATIONS, AND ELECTRICITY, FOR HIS OPERATIONS AND WORKS, COST INCLUDED UNDER MOBILIZATION.

6.2. CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING TO SECURE CONSTRUCTION AREAS AT ALL TIMES, COST INCLUDED IN MOBILIZATION.

6.3. CONTRACTOR TO OBTAIN A SECURE STAGING AREA AND OBTAIN ALL NECESSARY APPROVALS FROM THE OWNER.

6.4. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY LIGHTING AS REQUIRED TO LIGHT THE CONSTRUCTION PROJECT LIMITS AT ALL TIMES, TO AT LEAST THE SAME LIGHTING INTENSITY LEVELS AS THE EXISTING CONDITIONS.

6.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.

7. PROJECT PROGRESS AND CLOSEOUT

7.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEPT CLEAN.

7.2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY (SUCH AS HIGHWAY, DRIVEWAY, WALKWAY, AND LANDSCAPING), DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

7.3. MATERIAL OR DEBRIS SHALL BE HAULED IN ACCORDANCE WITH NPDES PERMIT AND JURISDICTIONAL LAWS.

7.4. ALL LAND SURVEY PROPERTY MONUMENTS OR PERMANENT REFERENCE MARKERS, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

7.5. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE GRADED, SODDED, & RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION.

8. PROJECT RECORD DOCUMENTS:

8.1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE LOCATION, LENGTH, MATERIAL AND ELEVATION OF ANY FACILITY NOT BUILT ACCORDING TO PLANS. THIS COPY OF THE "AS-BUILT" SHALL BE SUBMITTED TO ENGINEER FOR PROJECT RECORD.

8.2. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AT LEAST 48 HOURS BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FOOT INTERVALS, INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.

8.3. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES, DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS.

8.4. "AS-BUILT" DRAWINGS OF WATER LINES AND FORCE MAINS SHALL INCLUDE THE FOLLOWING INFORMATION:

8.4.1. TOP OF PIPE ELEVATIONS EVERY 100 LF.

8.4.2. LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, GATE VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, AND APPURTENANCES.

8.4.3. ALL CONNECTIONS TO EXISTING LINES.

8.4.4. ENDS OF ALL WATER SERVICES AT THE BUILDINGS WHERE THE WATER SERVICE TERMINATES.

8.5. "AS-BUILT" DRAWINGS OF GRAVITY SANITARY SEWER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:

8.5.1. RIM ELEVATIONS, INVERT ELEVATIONS, LENGTH OF PIPING BETWEEN STRUCTURES, AND SLOPES.

8.5.2. THE STUB ENDS AND CLEANOUTS OF ALL SEWER LATERALS SHALL BE LOCATED HORIZONTALLY AND VERTICALLY.

8.6. "AS-BUILT" DRAWINGS OF ALL DRAINAGE LINES SHALL INCLUDE THE FOLLOWING INFORMATION:

8.6.1. RIM ELEVATION, INVERT ELEVATION, LENGTH OF PIPING BETWEEN STRUCTURES, AND CONTROL STRUCTURE ELEVATIONS IF APPLICABLE.

8.6.2. THE SIZE OF THE LINES.

8.6.3. DRAINAGE WELL STRUCTURE SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP OF CASING ELEVATION, TOP AND BOTTOM ELEVATIONS OF THE STRUCTURE AND BAFFLE WALLS, RIM ELEVATIONS AND PIPE INVERTS.

8.7. "AS-BUILT" DRAWINGS OF CONSTRUCTION AREAS SHALL INCLUDE THE FOLLOWING:

8.7.1. ROCK ELEVATIONS AT ALL HIGH, AND LOW POINTS, AND AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.

8.7.2. ROCK ELEVATIONS AND CONCRETE BASE ELEVATIONS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.

8.7.3. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS.

8.7.4. FINISH GRADE ELEVATIONS IN ISLAND AREAS.

8.7.5. "AS-BUILT" ELEVATIONS SHALL BE TAKEN ON ALL PAVED AND UNPAVED SWALES, AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.

8.7.6. LAKE AND CANAL BANK "AS-BUILT" DRAWINGS SHALL INCLUDE A KEY SHEET OF THE LAKE FOR THE LOCATION OF CROSS SECTIONS. LAKE AND CANAL BANK CROSS SECTIONS SHALL BE PLOTTED AT A MINIMUM OF EVERY 100 LF, UNLESS OTHERWISE SPECIFIED. "AS-BUILT" DRAWINGS SHALL CONSIST OF THE LOCATION AND ELEVATION OF THE TOP OF BANK, EDGE OF WATER, AND THE DEEP CUT LINE, WITH THE DISTANCE BETWEEN EACH SHOWN ON THE DRAWING.

8.7.7. RETENTION AREA "AS-BUILT" ELEVATIONS SHALL BE TAKEN AT THE BOTTOM OF THE RETENTION AREA AND AT THE TOP OF BANK. IF THERE ARE CONTOURS INDICATED ON THE DESIGN PLANS, THEN THEY SHALL BE INCLUDED IN "AS-BUILT" DRAWINGS AS WELL.

8.8. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS ON FULL SIZE, 24" X 36" SHEETS. ALL "AS-BUILT" INFORMATION SHALL BE PUT ON THE LATEST ENGINEERING DRAWINGS. EIGHT (8) SETS OF BLUE OR BLACK LINE DRAWINGS SHALL BE SUBMITTED. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

8.9. AN ELECTRONIC COPY OF THESE "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN AUTOCAD, VERSION 2008 OR LATER.

9. UTILITY NOTES

9.1. CONTRACTOR IS RESPONSIBLE FOR UTILITY VERIFICATION PRIOR TO FABRICATION.

9.2. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES.

9.3. THE CONTRACTOR SHALL USE HAND DIGGING WHEN EXCAVATING NEAR EXISTING UTILITIES. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR WHILE EXCAVATING, INSTALLING, BACKFILLING OR COMPACTING AROUND THE UTILITIES.

9.4. THE CONTRACTOR SHALL NOTIFY AND OBTAIN AN UNDERGROUND CLEARANCE FROM ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A SUNSHINE811.COM CERTIFICATION CLEARANCE NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.

9.1. FOR STREET EXCAVATION OR CLOSING OR FOR ALTERATION OF ACCESS TO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL NOTIFY:

- ROADWAY JURISDICTIONAL ENGINEERING / PUBLIC WORKS AUTHORITY.
- COUNTY TRANSIT AUTHORITY
- SCHOOL BOARD TRANSPORTATION AUTHORITY
- JURISDICTIONAL FIRE DEPARTMENT DISPATCH
- JURISDICTIONAL POLICE DEPARTMENT(S)

9.1. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER, AND AROUND EXISTING ELECTRIC LINES. THE CONTRACTOR SHALL CONTACT THE ELECTRIC PROVIDER COMPANY TO VERIFY LOCATIONS, VOLTAGE, AND REQUIRED CLEARANCES, ONSITE, IN RIGHT-OF-WAYS, AND IN EASEMENTS, PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF EXISTING LINES.

9.2. LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY (FACILITIES) AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING FACILITIES, IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE CONFLICT.

9.3. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND UTILITY COMPANIES REQUIRED. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.

10. SIGNING AND PAVEMENT MARKINGS

10.1.ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), COUNTY TRAFFIC DESIGN STANDARDS AND FDOT DESIGN STANDARDS AS A MINIMUM CRITERIA.

10.2.MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF CONSTRUCTION.

10.3.REMOVAL OF THE EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WATER BLASTING OR OTHER APPROVED METHODS DETERMINED BY THE ENGINEER.

10.4.INCORRECTLY PLACED PAINT OR THERMOPLASTIC PAVEMENT MARKINGS OVER FRICTION COURSE WILL BE REMOVED BY MILLING AND REPLACING THE FRICTION COURSE A MINIMUM WIDTH OF 18 IN AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATIVE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.

10.5.PLACE ALL RETRO-REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH STANDARD INDEX 17352 AND / OR AS SHOWN IN THE PLANS.

10.6.CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGN IS DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

10.7.ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED, AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE ENGINEER.

10.8.RELOCATED SIGN SUPPORT SYSTEM MUST MEET THE CURRENT DESIGN STANDARD.

10.9.THE CONTRACTOR SHALL PROVIDE AN INVENTORY OF EXISTING SIGNS TO REMAIN OR TO BE RELOCATED PRIOR TO STARTING THE JOB AND FORWARD THIS LIST TO THE ENGINEER. CONTRACTOR SHALL NOTIFY IF THERE ARE ANY MISSING OR DAMAGE SIGNS THAT THE PLANS SHOW TO REMAIN OR TO BE RELOCATED.

10.10. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 711.

10.11. HAND DIG THE FIRST FOUR FEET OF SIGN FOUNDATION.

10.12. ALL SIGNS SHALL MEET ALL OF THE FOLLOWING:

- MEET THE CRITERIA OUTLINED IN SECTION 2A.08 OF THE 2009 MUTCD
- MEET THE SPECIFICATIONS OUTLINED IN SECTION 700 AND 994 OF THE LATEST FDOT STANDARD SPECIFICATIONS.
- CONSIST OF MATERIALS CERTIFIED TO MEET THE RETROREFLECTIVE SHEETING REQUIREMENTS OUTLINED IN THE CURRENT VERSION OF ASTM D4956 FOR TYPE-XI RETROREFLECTIVE SHEETING MATERIALS MADE WITH PRISIMS, EXCEPT FOR SCHOOL ZONE AND PEDESTRIAN SIGNS WHICH SHALL BE COMPRISED OF RETROREFLECTIVE FLUORESCENT YELLOW-GREEN SHEETING CERTIFIED TO MEET ASTM D4956 TYPE IV RETROREFLECTIVE SHEETING MATERIALS.
- CONSIST OF RETROREFLECTIVE SHEETING MATERIALS THAT HAVE A VALID FDOT APPROVED PRODUCT LIST (APL) CERTIFICATION FOR SPECIFICATION 700 HIGHWAY SIGNING FOR FDOT SHEETING TYPE XI (OR TYPE IV FOR SCHOOL AND PEDESTRIAN SIGNS).

10.13.PATCH ATTACHMENT HARDWARE, SUCH AS COUNTERSUNK SCREWS OR RIVET HEADS, WITH RETRO REFLECTIVE BUTTONS THAT MATCH THE COLOR AND SHEETING MATERIAL OF THE FINISHED SIGN PANEL INCLUDING THE BACKGROUND, LEGEND OR BORDER.

10.14.ENSURE THE OUTSIDE CORNER OF SIGN IS CONCENTRIC WITH BORDER. ENSURE WHITE BORDERS ARE MOUNTED PARALLEL TO THE EDGE OF THE SIGN. ENSURE BLACK BORDERS ARE RECESSED FROM THE EDGE OF THE SIGN.

10.15.LAYOUT PERMANENT FINAL STRIPING THAT LEAVES NO VISIBLE MARKS AT TIME OF FINAL ACCEPTANCE.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: NW/FA	DATE: 04/19/2022
DESIGNED BY: JW	SCALE: AS NOTED
CHECKED BY: TD	
FIELD BOOK:	

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
GENERAL CONSTRUCTION NOTES
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. GI-002 OF
TOTAL:
CAD FILE: 11405.00-GI-000
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CONSTRUCTION SPECIFICATIONS

SECTION 20 - GENERAL SPECIFICATIONS PAVING GRADING DRAINAGE AND EARTHWORK

20.GENERAL

20.1. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT. SUCH IMPROVEMENTS MAY GENERALLY INCLUDE, BUT NOT TO BE LIMITED TO, CLEARING, GRADING, PAVING, REMOVAL OF EXISTING PAVEMENT STORM DRAINAGE, WATER LINES AND SANITARY SEWERS.

20.2. IT IS THE INTENT THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION: (CURRENT EDITION) TOGETHER WITH "SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (CURRENT EDITION) BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY; THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" TOGETHER WITH THE “FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS” AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT. IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.

20.3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF A PAVING AND DRAINAGE SYSTEM AS SHOWN ON THE PLANS, SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCLUDE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

20.4. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT WHICH HAS JURISDICTION AND RESPONSIBILITY FOR THE CONSTRUCTION. WHERE CONFLICTS OR OMISSIONS EXIST, THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.

20.5. GUARANTEE - ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT, SHALL BE GUARANTEED FOR A PERIOD OF (L) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

21.EARTHWORK

21.1. ALL AREAS WITHIN THE PROJECT LIMITS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1'. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE STANDARD SPECIFICATIONS.

21.2. NONE OF THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT IS TO BE INCORPORATED IN THE NEW LIMEROCK BASE, UNLESS NOTED IN PLANS. THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT MAY BE INCORPORATED INTO THE STABILIZED SUBGRADE / SUBBASE, OR STABILIZED SHOULDER.

21.3. FILL MATERIAL SHALL BE CLASSIFIED AS A-L, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO N--145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.

21.4. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

21.5. ALL MATERIAL OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO THE TIME HE WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FOLLOW CITY AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST OF AN EARLIER PHASE OF WORK, PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.

21.6. WHEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE CENTER LINE (10) TEN FEET BEYOND THE EDGE OF PAVEMENT EACH SIDE. ALL SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL.

21.7. WHEN ENCOUNTERED WITHIN DRAINAGE SWALES, HARDPAN SHALL BE REMOVED TO FULL DEPTH FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.

21.8. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND PAVEMENT CONSTRUCTION.

21.9. GROUND ADJACENT TO ROADWAY/PAVEMENT HAVING RUNOFF SHALL BE GRADED (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.

21.10. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THE REQUIRED ELEVATION FOR NON PAVED AREAS AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.

21.11. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL, EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL SECTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION, THE CONTRACTOR SHALL SUPPLY THIS MATERIAL AS REQUIRED FROM OFF-SITE.

21.12. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED OR SEEDED AND MULCHED WITHIN THE PROJECT LIMITS UNLESS OTHERWISE INDICATED ON THE PLANS.

21.13. SOD SHALL BE ST. AUGUSTINE UNLESS OTHERWISE INDICATED ON THE PLANS, AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.

22.DRAINAGE

22.1. INLETS - ALL INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 425 OF THE STANDARD SPECIFICATIONS. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.

22.2. PIPE SPECIFICATIONS: THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS:

- RCP = REINFORCED CONCRETE PIPE, ASTM DESIGNATION C--76, SECTION 941 OF THE STANDARD SPECIFICATIONS.
- CMP = CORRUGATED METAL (ALUMINUM) PIPE, ASTM DESIGNATION M-196.
- CMP (SMOOTH LINED) = CORRUGATED METAL ALUMINUM PIPE, (SMOOTH LINED) ASTM DESIGNATION M-196.
- SCP = SLOTTED CONCRETE PIPE, SECTIONS 941 AND 942, OF THE STANDARD SPECIFICATIONS.
- PVC = POLYVINYL CHLORIDE PIPE.
- PCMP = PERFORATED CMP, SECTION 945, OF THE STANDARD SPECIFICATIONS
- CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) (12 INCHES TO 60 INCHES), SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 948-2.3.

22.3. PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE AS DEFINED IN THE SECTION 125-8, OF THE STANDARD SPECIFICATIONS. PIPELINE BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T--99 SPECIFICATIONS)

22.4. LOCATION OF DRAINAGE STRUCTURES SHALL GOVERN, AND PIPE LENGTH MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.

22.5. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE INNER WALLS OF STRUCTURES.

22.6. FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE STANDARD SPECIFICATIONS.

23.ASPHALT PAVING

23.1. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.

23.2. INTERNAL ASPHALT PAVING CONSTRUCTED ON EXISTING SANDY SOILS SHALL BE CONSTRUCTED WITH A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. THE COMPACTED SUBGRADE SHALL BE CONSTRUCTED IN THE LIMITS SHOWN ON THE PLANS. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED.

23.3. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC CONCRETE AS SPECIFIED IN THE PLANS. ALL ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH SECTIONS 320, 327, 330, 334, 336, 337, 337, 338, 339 AND 341 OF THE STANDARD SPECIFICATIONS.

23.4. LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE DESIGNATED. THE ENGINEER SHALL INSPECT THE COMPLETED BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. A TACK COAT WILL ALSO BE REQUIRED IF THE ENGINEER FINDS THAT THE PRIMED BASE HAS BECOME EXCESSIVELY DIRTY OR THE PRIME COAT HAS CURED TO THE EXTENT OF LOSING BOUNDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.

23.5. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO EQUAL LIFTS. IF, THROUGH FIELD TESTS, THE CONTRACTOR CAN DEMONSTRATE THAT THE COMPACTION EQUIPMENT CAN ACHIEVE DENSITY FOR THE FULL DEPTH OF A THICKER LIFT, AND IF APPROVED BY THE ENGINEER, THE BASE MAY BE CONSTRUCTED IN SUCCESSIVE COURSES OF NOT MORE THAN 8 INCHES (200 MM) COMPACTED THICKNESS.

23.6. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE TO THE DIMENSIONS SHOWN ON PLANS.

24.CONCRETE CONSTRUCTION

24.1. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH SECTION 522 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 310. CONCRETE SIDEWALK SHALL BE 4" THICK, UNLESS OTHERWISE NOT AND CONSTRUCTED ON COMPACTED SUBGRADE, WITH 1/2" EXPANSION JOINTS PLACED AT A MAXIMUM OF 75', UNLESS OTHERWISE NOTED ON PLANS. CRACK CONTROL JOINTS SHALL BE 5' ON CENTER. ALL CONCRETE SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6" THICK, UNLESS OTHERWISE NOTED ON PLANS.

24.2. SIDEWALK CURB RAMPS HALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 304.

24.3. CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. CONCRETE CURBING SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 300.

24.4.

SECTION 30 - WATER DISTRIBUTION AND SANITARY SEWER FORCE MAINS.

30. MATERIALS:

NOTE: IF MATERIALS LIST HERE ON ARE IN CONFLICT WITH UTILITY OWNER, MATERIAL OWNER REQUIREMENTS SHALL GOVERN.

30.1. ALL WATER MAIN PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE, SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.

30.2. DUCTILE IRON PIPE FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE NOTED IN THE PLANS. DUCTILE IRON PIPE SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4 LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS FOR ALL SIZES. WATER MAIN SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES.

30.3. DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND- LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE NOTED IN THE PLANS. DUCTILE IRON PIPE SHALL BE INTERIOR CERAMIC EPOXY LINED AND EXTERIOR COATED WITH THE MANUFACTURER'S COATING SYSTEM (PROTECTO 401 CERAMIC EPOXY WITH A MINIMUM DRY FILM THICKNESS OF 40 MILS AND AN OUTSIDE COATING OF EITHER COAL TAR EPOXY OR ASPHALT). CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.

30.4. ALL PIPE & FITTINGS ON THE LIFT STATION SITES SHALL BE DUCTILE IRON CONFORMING TO THE SAME SPECIFICATIONS AS ABOVE FOR SEWAGE FORCE MAINS EXCEPT THAT FLANGED DUCTILE IRON PIPE & FITTINGS SHALL BE USED INSIDE VALVE PITS AND WET WELLS. FLANGED PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA C115/A21.15 LATEST REVISION AND ANSI/AWWA C110/A21.10 LATEST REVISION. THE FOLLOWING THICKNESS CLASSES SHALL BE ADHERED TO: 4" - 12" - CLASS 52, 14" & LARGER - CLASS 51.

30.5. PVC PRESSURE PIPE FOR SIZES 4" THROUGH 12" AND SHALL CONFORM TO ANSI/AWWA STANDARD C900 LATEST REVISION. PVC PRESSURE PIPE SHALL BE MADE FROM CLASS 12454-A OR CLASS 12454-B VIRGIN MATERIAL AND CONFORM WITH THE OUTSIDE DIAMETER OF CAST IRON PIPE WITH A MINIMUM WALL THICKNESS OF DR SERIES 18. ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIPE WILL BE CAUSE FOR REJECTION. WATER MAIN SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES. FORCE MAIN SHALL BE IMPREGNATED WITH GREEN PIGMENT. REUSE MAIN SHALL BE IMPREGNATED WITH PURPLE PIGMENT.

30.6. DUCTILE IRON FITTINGS FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4 LATEST REVISION. WATER MAIN FITTING SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES.

30.7. CAST IRON AND DUCTILE IRON FITTINGS FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE COATED IN ACCORDANCE WITH THE REQUIREMENTS OF DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS.

30.8. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11 LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION-TYPE. SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE ENGINEER.

30.9. JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH-ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED.

30.10. WATER DISTRIBUTION SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW:

- JOINT RESTRAINT
- PUSH-ON P.V.C. EBAA IRON SERIES 1600
- PUSH-ON DIP EBAA IRON SERIES 1700
- TR-FLEX BY U.S. PIPE OR
- FLEX RING BY AMERICAN
- FITTINGS W/ DIP EBAA IRON SERIES 1100 MEGALUG
- FITTINGS W/ P.V.C. EBAA IRON SERIES 2000 MEGALUG
- LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL SHEET)

30.11. SEWAGE FORCE MAIN SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW

- JOINT RESTRAINT
- PUSH-ON P.V.C. EBAA IRON SERIES 1600
- PUSH-ON DIP EBAA IRON SERIES 1700
- TR-FLEX BY U.S. PIPE OR
- FLEX RING BY AMERICAN
- FITTINGS W/ DIP EBAA IRON SERIES 1100 MEGALUG
- FITTINGS W/ P.V.C. EBAA IRON SERIES 2000 MEGALUG
- LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL SHEET)

30.12. WATER DISTRIBUTION VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C509 LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.

30.12.1. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2361/2362, AMERICAN 250 LINE OR CLOW F-6100, CONFORMING TO ANSI/AWWA C500 LATEST REVISION OR APPROVED EQUAL.

30.12.2. TAPPING VALVES SHALL BE MUELLER T-2361/2362 OR APPROVED EQUAL.

30.12.3. GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HAND WHEELS OR APPROVED EQUAL.

30.13. TAPPING SLEEVES SHALL BE MUELLER H615, CLOW F- 2505 OR APPROVED EQUAL.

30.14. VALVE BOXES SHALL BE U.S. FOUNDRY 7500 OR APPROVED EQUAL PAINTED BLUE WITH THE DESIGNATION "WATER".

30.15. RETAINER GLANDS FOR DIP SHALL CONFORM TO ANSI/AWWA C111/A21.11 LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING. CLOW CORPORATION MODEL F-1058, STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR APPROVED EQUAL.

30.16. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED.

30.17. FIRE HYDRANTS SHALL BE MUELLER CENTURION TRAFFIC TYPE A-423 WITH 5 1/4" INTERNAL VALVE OPENING OR APPROVED EQUAL. PUMPER NOZZLE TO BE 18" FROM FINISHED GRADE. ALL HYDRANTS TO BE INSTALLED WITH CONTROL VALVE. RETAINER GLANDS ARE PREFERRED FOR RESTRAINING. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502 LATEST REVISION. FIRE HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH NFPA #291 OR PER AGENCY STANDARDS HAVING JURISDICTION. BLUE RAISED REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE USED TO IDENTIFY FIRE HYDRANT LOCATION. THE PLACEMENT OF THE RPM TO BE AT THE CENTERLINE OF THE OUTSIDE ROADWAY LANE.

30.18. SEWAGE FORCE MAIN VALVES SHALL BE PLUG VALVES WHICH SHALL BE OF THE NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS, PORT AREAS FOR VALVES 20 INCHES AND SMALLER SHALL BE AT LEAST 80% OF FULL PIPE AREA. PORT AREA OF VALVES 24 INCHES AND LARGER SHALL BE AT LEAST 70% OF FULL PIPE AREA. THE BODY SHALL BE OF SEMI-STEEL (ASTM A-126 C1.B) AND SHALL HAVE BOLTED BONNET WHICH GIVES ACCESS TO THE INTERNALS OF THE VALVE. SEATS SHALL BE WELDED OVERLAY OF HIGH NICKEL CONTENT OR A STAINLESS STEEL PLATE LOCKED IN THE BODY CAVITY. IF A PLATE IS USED, IT SHALL BE REPLACEABLE THROUGH THE BONNET ACCESS. BEARINGS SHALL BE PERMANENTLY LUBRICATED OF STAINLESS STEEL, BRONZE OR TEFLON LINED, FIBER GLASS BACKED DURALON. BEARING AREAS SHALL BE ISOLATED FROM THE FLOW WITH GRIT SEALS. VALVES SHALL HAVE PACKING BONNETS WHERE THE SHAFT PROTRUDES FROM THE VALVE AND THE PACKING SHALL BE SELF-ADJUSTING CHEVRON TYPE WHICH CAN BE REPLACED WITHOUT REMOVING THE BONNET. ALL NUTS, BOLTS, SPRINGS AND WASHERS SHALL BE STAINLESS STEEL.

30.19. PLUG VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 150 PSI THE VALVE AND ACTUATOR SHALL BE CAPABLE OF SATISFACTORY OPERATION IN EITHER DIRECTION OF FLOW AGAINST PRESSURE DROPS UP TO AND INCLUDING 100 PSI (FOR PLUG VALVES OVER 12” IN DIAMETER). VALVES SHALL BE BUBBLE TIGHT IN BOTH DIRECTIONS AT 100 PSI DIFFERENTIAL. PLUG VALVES OVER 12" IN DIAMETER SHALL HAVE WORM GEAR OPERATORS. THE OPERATING MECHANISM SHALL BE FOR BURIED SERVICE WITH A 2 INCH SQUARE OPERATING NUT.

30.20. PLUG VALVES ARE TO BE INSTALLED WITH THE SEAT POINTED TOWARDS THE UPSTREAM FLOW, WHEN SPECIFIED.

30.21. SWING CHECK VALVES FOR WATER, SEWAGE, SLUDGE, AND GENERAL SERVICE SHALL BE OF THE OUTSIDE LEVER AND SPRING OR WEIGHT TYPE, IN ACCORDANCE WITH ANSI/AWWA C 508 LATEST REVISION SWING-CHECK VALVES FOR WATERWORKS SERVICE, 2” THROUGH 24” NPS, UNLESS OTHERWISE INDICATED, WITH FULL-OPENING PASSAGES, DESIGNED FOR A WATER-WORKING PRESSURE OF 150 PSI THEY SHALL HAVE A FLANGED COVER PIECE TO PROVIDE ACCESS TO THE DISC.

30.22. HIGH DENSITY POLYETHYLENE PIPE (HDPE) FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO AWWA C906 STANDARD, LATEST REVISION. PIPES SHALL BE COLOR-CODED BLUE, MINIMUM 40 FEET STANDARD LENGTHS.

31.SERVICE CONNECTION:

31.1. SERVICE SADDLES SHALL BE FUSION BONDED PLASTIC COATED DUCTILE IRON (ASTM A536) WITH STAINLESS STEEL STRAPS, SADDLES SHALL BE DOUBLE STRAP TYPE.

31.2. SERVICE LINES SHALL BE POLYETHYLENE (PE 3408), 200 P.S.I RATED, DR9. PIPE JOINTS SHALL BE OF THE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT.

31.3. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH THREADED ENDS, AS MANUFACTURED BY FORD BALLCORP, CATALOG # 1100 OR APPROVED EQUAL.

31.4. CURB STOPS SHALL BE FORD V63-44W-X" LATEST REVISION OR APPROVED EQUAL.

31.5. METER STOPS SHALL BE 90 DEGREE LOCKWING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE FV63-777W" LATEST REVISION WITH ASTM B-62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "0" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY FORD OR APPROVED EQUAL.

32. INSTALLATION:

32.1. WHERE RESTRAINED PIPE JOINTS ARE REQUIRED DUE TO FITTINGS, APPURTENANCES, ETC., PIPE MATERIAL SHALL BE DIP

32.2. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION "GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEM," AND ANSI/AWWA C605-XX LATEST REVISION STANDARD.

32.3. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/ C600-XX LATEST REVISION.

32.4. ALL WATER MAINS SHALL TYPICALLY BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" COVER FOR DIP.

32.5. DETECTOR TAPE SHALL BE LAID 18 INCHES ABOVE ALL WATER AND SEWER LINES. A 14 GAUGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL NONCONDUCTIVE WATER MAINS TO FACILITATE LOCATION. AN EXTRA 4 FEET OF WIRE SHALL BE PROVIDED AT ALL VALVES, BLOW-OFFS, HYDRANTS, ETC. THE WIRE SHALL BE TESTED FOR CONTINUITY AT THE PRESSURE TEST.

32.6. PIPE DEFLECTION SHALL NOT EXCEED 50% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.

32.7. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED. BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

32.8. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" OR "SEWER", AS APPLICABLE, CAST IN THE COVER. U.S. FOUNDRY OR APPROVED EQUAL.

33.TESTING:

33.1. BEFORE ANY PHYSICAL CONNECTIONS AND ACCEPTANCE FOR OPERATION TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE FLUSHED, PRESSURE TESTED AND DISINFECTED. COPIES OF PASSING BACTERIOLOGICAL RESULTS AND PRESSURE TEST RESULTS MUST BE SUBMITTED TO, AND APPROVED BY, THE ENGINEER, UTILITY OWNER, AND HEALTH DEPARTMENT. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600-05 (HYDROSTATIC TEST). THE PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE TEST. THE ALLOWABLE LEAKAGE DURING THE PRESSURE TEST SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

L = (SD(P)1/2)/148,000.

IN WHICH L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR. S EQUALS LENGTH OF PIPE (LINEAR FEET), D EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND P EQUALS THE AVERAGE TEST PRESSURE (POUNDS PER SQUARE INCH GAUGE). MAXIMUM LENGTH OF TEST PIPE SECTION SHOULD BE 2000 FEET. THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C651-05 (WATER MAIN BACTERIOLOGICAL TESTS).

33.2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE UTILITY OWNER AND THE ENGINEER OF RECORD.

33.3. FOR WATER DISTRIBUTION PIPES, SAMPLING POINTS SHALL BE PROVIDED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE PLANS.

33.4. FOR WATER DISTRIBUTION PIPES, DISINFECTION AND BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C651-14 (WATER MAIN BACTERIOLOGICAL TESTS). MAXIMUM DISTANCE BETWEEN SAMPLING POINTS SHALL BE AS FOLLOWS:

- TRANSMISSION MAINS: EVERY 1200 FEET
- BRANCH MAINS: EVERY 1000 FEET
- ISOLATED MAINS < 1000 FEET: 2 SAMPLE POINTS
- ISOLATED MAINS > 1000 FEET: 3 SAMPLE POINTS

SECTION 40 - GRAVITY SANITARY SEWER COLLECTION SYSTEM

40.GENERAL:

40.1. MANHOLE, VALVE BOX, METER BOX AND OTHER STRUCTURE RIM ELEVATIONS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE ADJUSTED TO CONFORM TO PLAN GRADES PROPOSED IN THESE PLANS. IF NO OTHER INDIVIDUAL COST ITEM IS INCLUDED IN THE CONTRACT SCHEDULE FOR A PARTICULAR STRUCTURE ADJUSTMENT.

40.2. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.

41. MATERIALS:

NOTE: IF MATERIALS LIST HERE ON ARE IN CONFLICT WITH UTILITY OWNER, MATERIAL OWNER REQUIREMENTS SHALL GOVERN.

41.1. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.

41.2. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA C151/A21.51-XX LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH WALL THICKNESS CLASS 51 FOR 8" AND ABOVE, CLASS 52 FOR 4" AND 6", UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DUCTILE IRON PIPE SHALL BE EPOXY LINED OR COATED WITH THE MANUFACTURER'S COATING SYSTEM AS APPROVED BY THE ENGINEER OF RECORD AND THE LOCAL MUNICIPALITY OR UTILITY OWNER. IN EITHER CASE, THE ENGINEER'S REVIEW AND APPROVAL IS REQUIRED FOR EITHER ALTERNATIVE PRIOR TO CONSTRUCTION. CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.

41.3. ALL DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C110/A21.10-XX LATEST REVISION. ALL FITTINGS AND ACCESSORIES SHALL BE EPOXY LINED AND AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.

41.4. MANHOLES SHALL BE PRECAST PER ASTM C 478 AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

41.5. MANHOLES ARE TO BE SEALED WITH TYPE II SULPHATE RESISTANT CEMENT OR APPROVED EQUAL - NO MOLDING PLASTER.

41.6. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11-XX LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION- TYPE.

41.7. PVC CLEAN-OUTS TO HAVE SCREW TYPE ACCESS PLUG. LONG RADIUS WYE CONNECTIONS AND FITTINGS SHALL BE USED IN ORDER TO ACCESS CLEAN-OUT OPERATIONS.

41.8. CLEANOUTS SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 75' IN LENGTH (EVERY 75') WITH A CLEAN OUT AT THE PROPERTY LINE, EASEMENT LINE, OR 5' FROM A BUILDING. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE BUILDING CLEANOUT (5' FROM THE BUILDING) AND ELEVATION OF THE END OF THE SEWER SERVICE WITH THE BUILDING PLUMBING CONTRACTOR. CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LATERAL IN WHICH THEY ARE INSTALLED.

42. INSTALLATION:

42.1. PVC SEWER PIPE SHALL BE LAID IN ACCORDANCE WITH ASTM D 2321 AND THE UNI-BELL PLASTIC PIPE ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE."

42.2. DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C-600-XX LATEST REVISION.

42.3. PIPE TO MANHOLE CONNECTION TO BE FERNCO NEOPRENE BOOT COUPLINGS WITH STAINLESS STEEL ACCESSORIES OR APPROVED EQUAL.

42.4. MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.

42.5. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT.

42.6. TWO COATS OF KOPPERS 300-M, FIRST RED, SECOND ONE BLACK, SHALL BE APPLIED TO THE INSIDE OF ALL MANHOLES AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (16 MILS PER COAT). COATING AS REQUIRED BY UTILITY OWNER OR ENGINEER SHALL BE APPLIED TO THE OUTSIDE OF THE MANHOLE. THE INTERIOR COATS SHALL BE APPLIED AFTER SEWER LAMPING OF LINES. AFTER THE APPLICATION OF EACH COAT, THE UTILITY OWNER AND ENGINEER SHALL INSPECT THE MANHOLES. THE INSPECTION SHALL BE SCHEDULED A MINIMUM OF 48 HOURS PRIOR TO INSPECTION.

43. TESTING: TESTING OF GRAVITY SEWER MAINS AND LATERALS SHALL BE IN ACCORDANCE WITH THE UTILITY OWNER'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS LATEST REVISION.

43.1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.

43.2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.

43.3. THE ALLOWABLE LIMITS OF SEWER PIPE LEAKAGE FOR GRAVITY SEWER MAINS SHALL NOT EXCEED 100 GALLONS PER INCH OF INSIDE PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED.

43.4. THE INSTALLED SEWERS MAY REQUIRE VIDEO INSPECTIONS.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: NW/FA
DATE: 04/19/2022
DESIGNED BY: JW
SCALE: AS NOTED
CHECKED BY: TD
FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
CONSTRUCTION SPECIFICATIONS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. GI-003
OF
TOTAL:
CAD FILE: 11405.00-GI-000
DRAWING FILE NO. TBD

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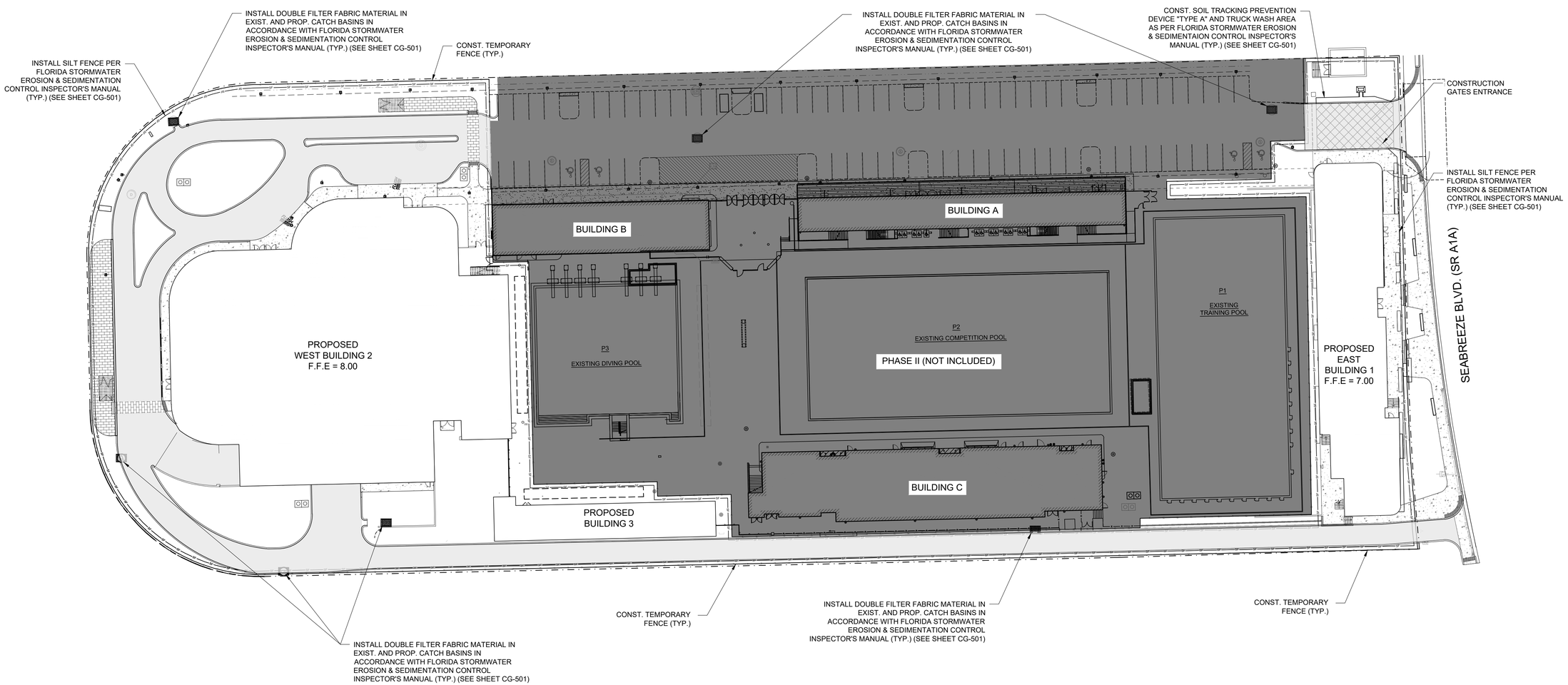

GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN FLORIDA (HEREAFTER REFERRED TO AS FL GUIDELINES).
2. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION PERIOD. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED.
3. ALL EXISTING/NEW CATCH BASIN, INLETS, STORM SEWER MANHOLES STRUCTURES WITHIN THE WORK AREAS, ETC. SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS FROM SEDIMENT RUNOFF AND DEBRIS BY PLACING A FILTER FABRIC MATERIAL IN THE FRAME AND GRATE/MANHOLE COVER. PREVENTIVE METHODS MUST BE UTILIZED AROUND THESE STRUCTURES (DURING CONSTRUCTION OPERATIONS) BY GRADING TO DRAIN AWAY FROM STRUCTURES AND ANY OTHER METHODS APPROVED BY THE AGENCY HAVING JURISDICTION OR DESIGN ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL INSTALL A SOIL TRACKING PREVENTION DEVICE AS PER THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
5. ALL AREAS OF DISTURBANCE THAT ARE NOT WITHIN BUILDING OR PAVEMENT LIMITS SHALL BE SODDED, REFER TO LANDSCAPE PLANS FOR SOD SPECIFICATION AND REQUIREMENTS.
6. REMOVE ALL EROSION CONTROL IMPROVEMENTS AFTER ALL DISTURBED AREAS ARE STABILIZED WITH THE FINAL GROUND COVER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ALL THE PERMITS PREVIOUSLY ACQUIRED FOR THIS PROJECT. THE CONDITIONS OUTLINED IN THE PERMITS ARE IN FORCE AND FULL EFFECT AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH ALL OF THE REQUIREMENTS OF THESE PERMITS.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING A VALID NPDES PERMIT. UNLESS SUCH PERMIT IS DETERMINED TO BE NON-APPLICABLE BY REGULATORY AGENCY HAVING PROPER JURISDICTION REGARDING HIS MATTER.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

DRAWN BY: NW/FA | DESIGNED BY: JW | CHECKED BY: TD | DATE: 04/19/2022 | SCALE: AS NOTED | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
EROSION CONTROL PLAN
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. CG-101 | OF

TOTAL:

CAD FILE: 11405.00-CG-1XX

DRAWING FILE NO. TBD

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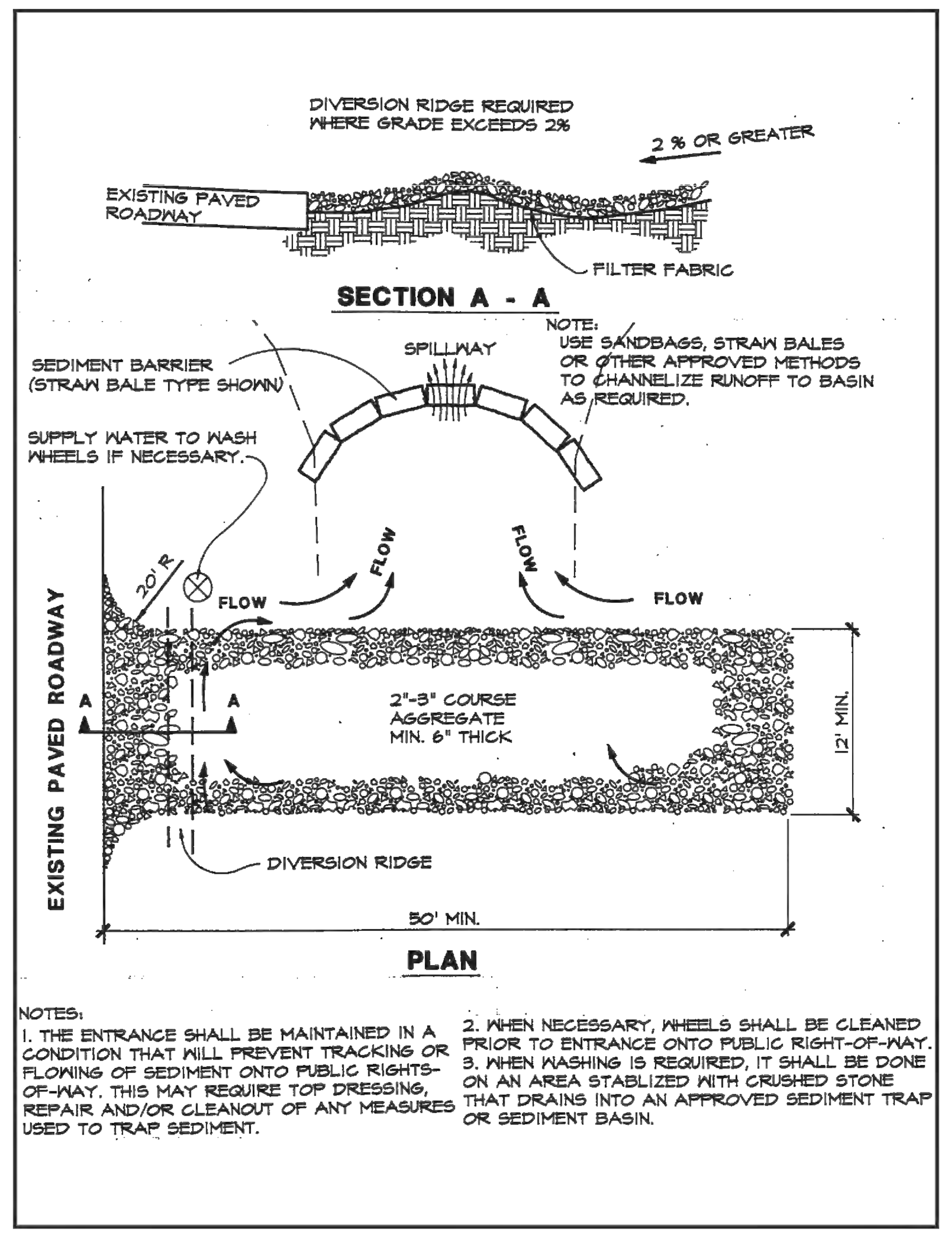

Figure 4.3a. Temporary Gravel Construction Entrance
Source: Erosion Draw

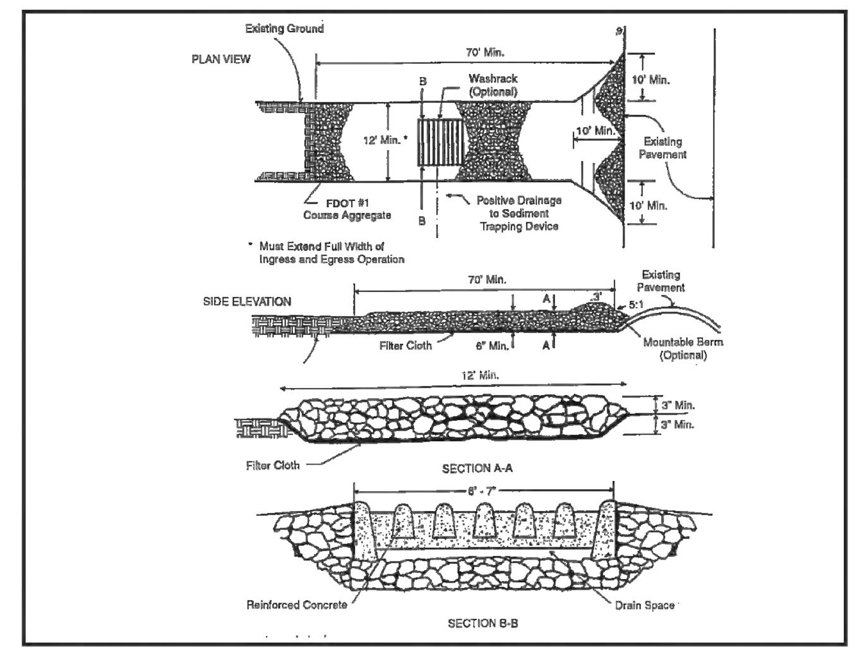

Figure 4.3c. Construction Entrance with Wash Rack
Source: 1983 Maryland Standards for Soil Erosion and Sediment Control

Location

The entrance should be located to provide for maximum utility by all construction vehicles.

Construction Specifications

The entrance area should be cleared of all vegetation, roots, and other objectionable material. A geotextile should be laid down to improve stability and simplify maintenance when gravel is used. The gravel shall then be placed over the geotextile to the specified dimensions.

Maintenance

The stabilized construction exit shall be maintained in a condition that will prevent the tracking or flow of mud onto public rights of way. This may require periodic maintenance as conditions demand, and the repair and/or cleanout of any structures used to trap sediments. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. Look for signs of trucks and trailered equipment "cutting corners" where the construction exit meets the roadway. Sweep the paved road as needed.

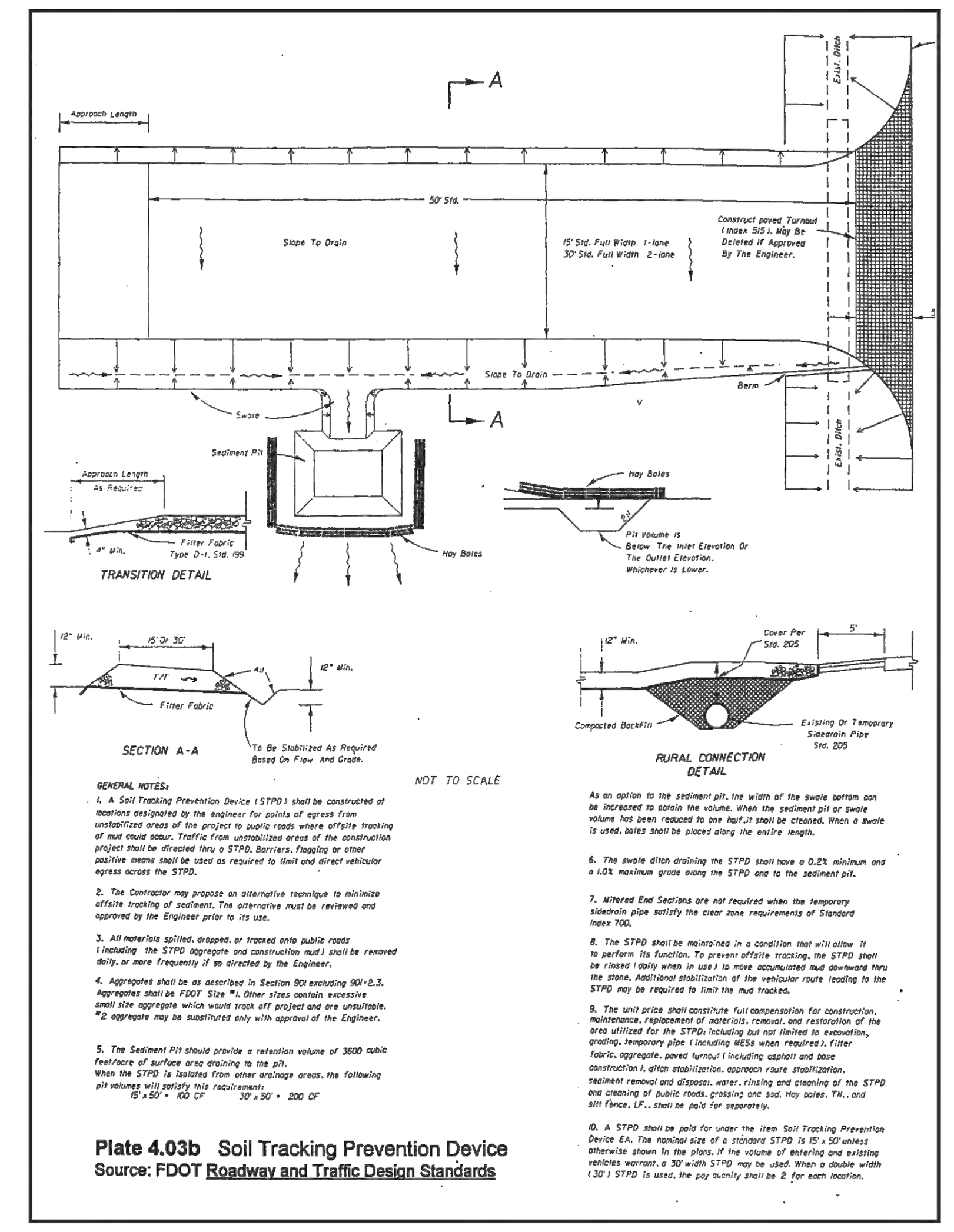

Figure 4.3b. Soil Tracking Prevention Device
Source: FDOT Roadway and Traffic Design Standards

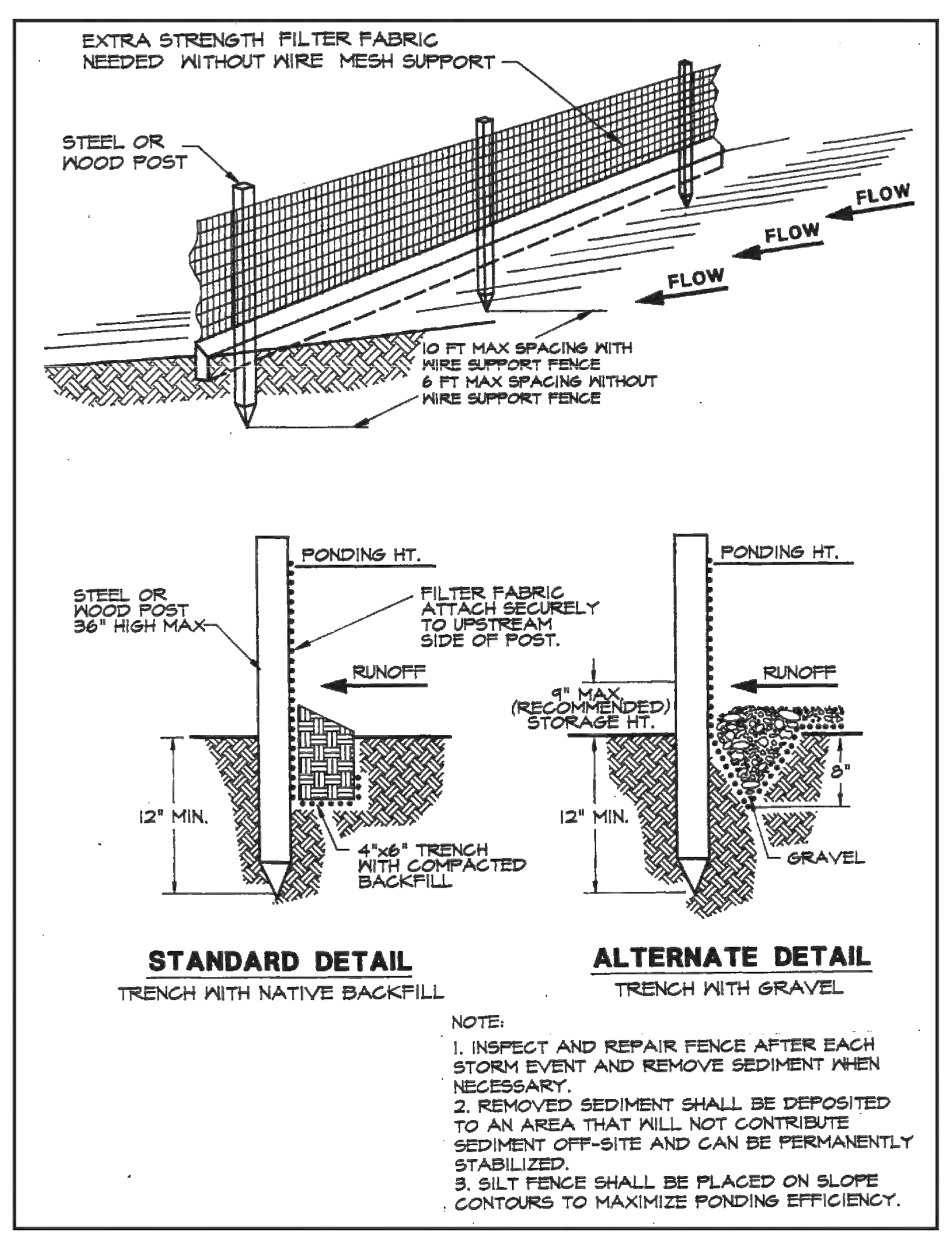

Figure 4.4a. Silt Fence
Source: Erosion Draw

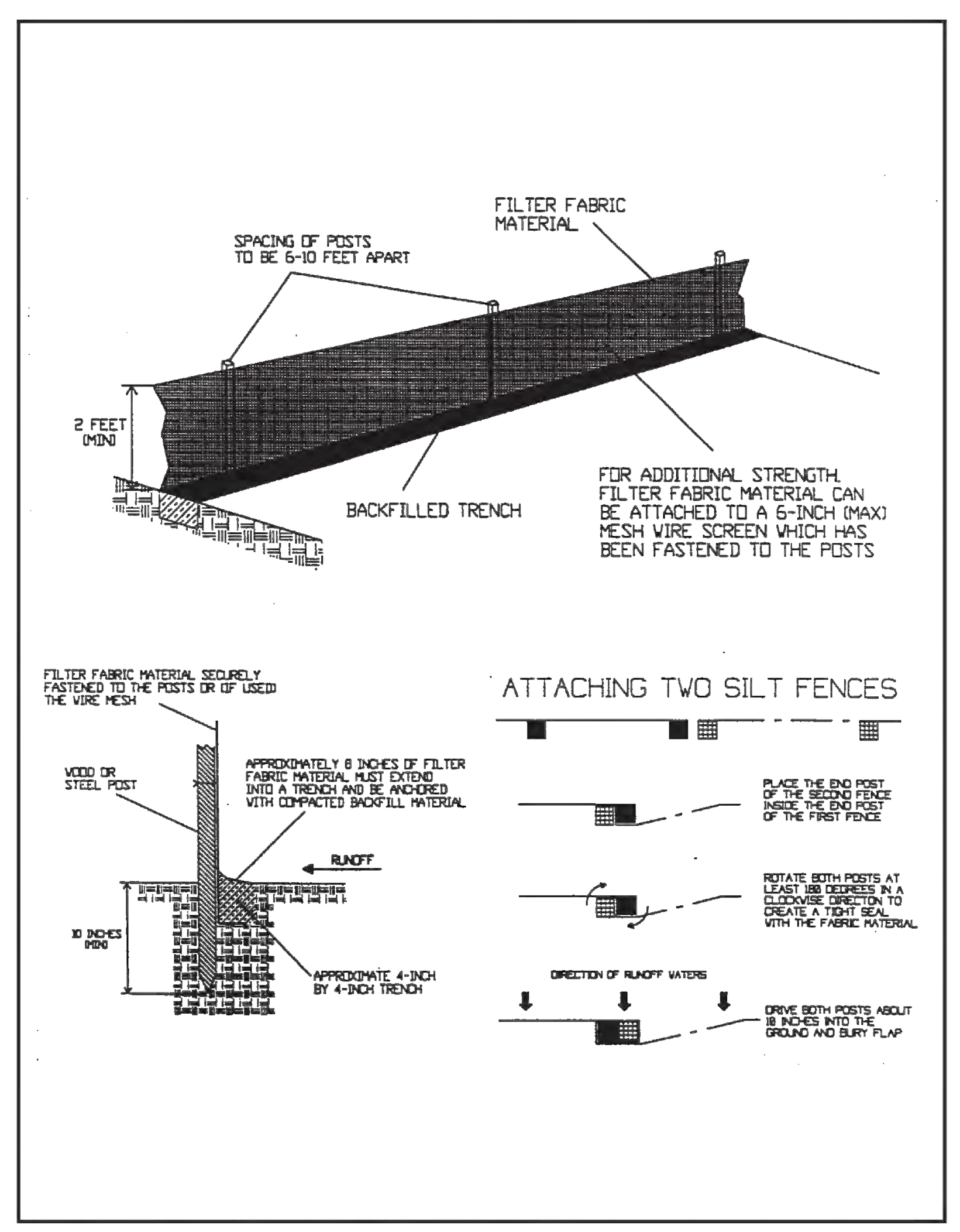

Figure 4.4b. Installing a Filter Fabric Silt Fence
Source: HydroDynamics, Inc.

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THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
EROSION CONTROL DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

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CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

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SHEET NO. CG-501 OF

TOTAL:

CAD FILE:

DRAWING FILE NO. TBD

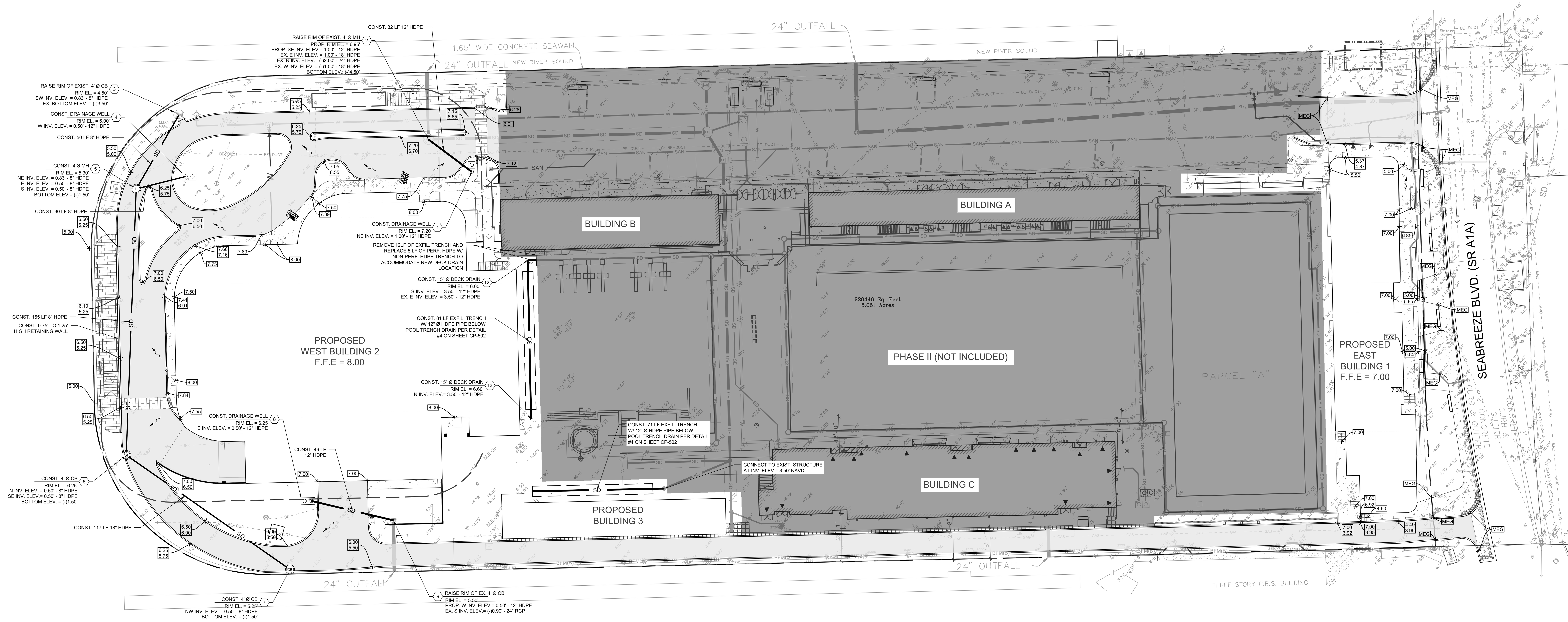
CAM 23-0723
Exhibit 1M
Page 11 of 169

GRAPHIC SCALE

0 30 60

SCALE: 1" = 30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.



NOTE:
ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), BASED ON THE SURVEY PREPARED BY STONER AND ASSOCIATES, INC.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
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WEST & EAST BUILDINGS
PAVING, GRADING, AND DRAINAGE PLAN
501 SEABREEZE BLVD., FT. LAUD., FL.33316

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY:	DATE:
NW/FA	04/19/2022
DESIGNED BY:	SCALE:
JW	AS NOTED
CHECKED BY:	
TD	
FIELD BOOK:	

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

SHEET NO. CP-101 OF

TOTAL:

CAD FILE: 11405.00-CP-1XX

DRAWING FILE NO. TBD

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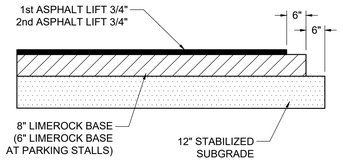


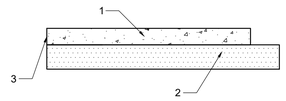
ASPHALTIC CONCRETE VEHICULAR:
FIRST LIFT - 3/4" FDOT - SP 9.5 (FINE MIX). SECOND (FINAL) LIFT - 3/4" FDOT - SP 9.5 (FINE MIX). ASPHALT SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARDS SPECIFICATIONS SECTIONS 330 AND 334. SECOND LIFT OF ASPHALT SHALL NOT BE PLACED UNTIL FINAL LANDSCAPE/HARDSCAPE HAS BEEN INSTALLED.

PRIME AND TACK COAT:
LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARDS SPECIFICATIONS SECTION 300.
APPLICATION RATES:
PRIME COAT - 0.10 GALLONS PER SQ. YD.
TACK COAT - 0.08 GALLONS PER SQ. YD.

BASE:
8"/ 6" LIMEROCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180), LIMEROCK BASE TO CONFORM WITH THE REQUIREMENTS OF FDOT SPECIFICATIONS SECTIONS 200 AND 911.

SUBGRADE:
12" STABILIZED SUBGRADE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180); MINIMUM LBR = 40.

1 ASPHALT PAVEMENT DETAIL
NOT TO SCALE

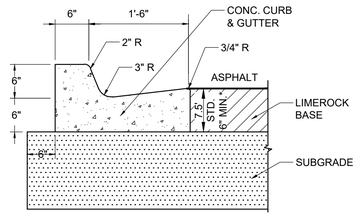


1. CONCRETE VEHICULAR COURSE:
   8" - 3,000 PSI CONCRETE PER FDOT STANDARD SPECIFICATIONS SECTION 346 AND 350.
2. STABILIZED SUBGRADE:
   12" SUBGRADE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM LBR = 40. GROUND ADJACENT TO PAVEMENT HAVING RUNOFF SHALL BE GRADED TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
3. SAWED JOINTS:
   3/16" SAW CUT, 1¼" DEEP (WITHIN 12 HOURS), MAX. 15' O.C., AND MIN.3' PARALLEL TO THE EDGE OF PAVEMENT.

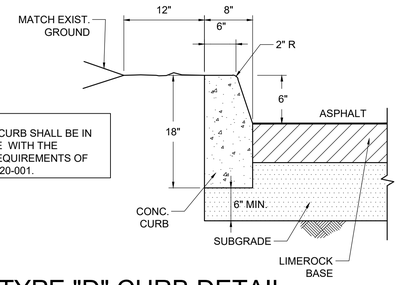
2 CONCRETE PAVEMENT DETAIL
NOT TO SCALE

NOTES:
ALL TYPE "F" CURB & GUTTER SHALL BE IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF FDOT INDEX 520-001.

*WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

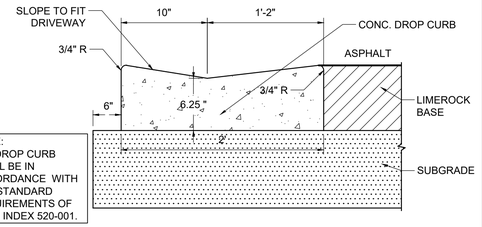


3 TYPE "F" CURB DETAIL PER FDOT INDEX No. 520-001
NOT TO SCALE



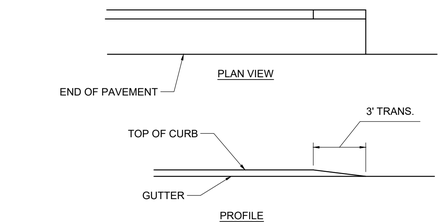
NOTE:
ALL TYPE "D" CURB SHALL BE IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF FDOT INDEX 520-001.

4 TYPE "D" CURB DETAIL PER FDOT INDEX No. 520-001
NOT TO SCALE



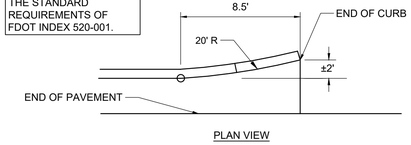
NOTE:
ALL DROP CURB SHALL BE IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF FDOT INDEX 520-001.

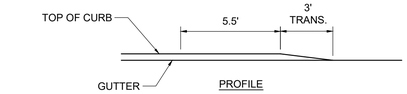
5 DROP CURB DETAIL PER FDOT INDEX No. 520-001
NOT TO SCALE



NOTE:
ALL CURB & GUTTER FLARED AND STRAIGHT ENDS SHALL BE IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF FDOT INDEX 520-001.

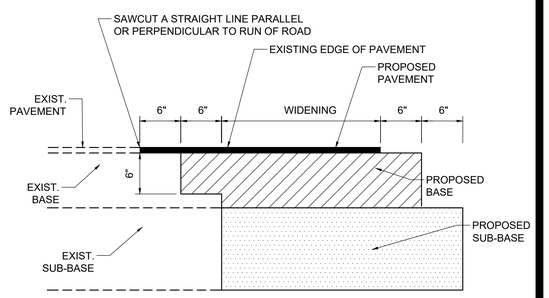
STRAIGHT END



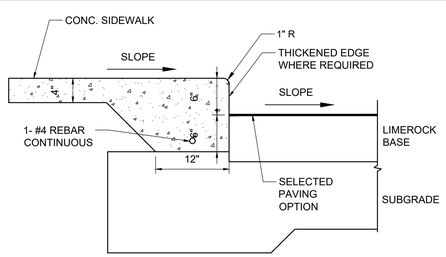


FLARED END

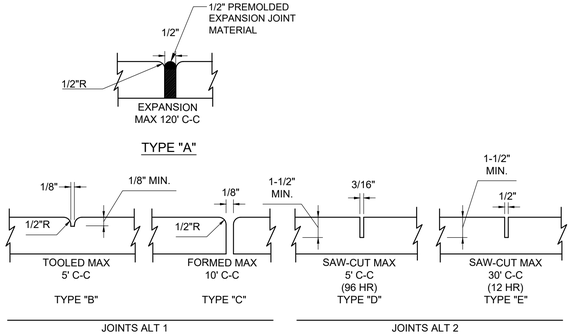
6 CURB & GUTTER FLARED AND STRAIGHT ENDS
NOT TO SCALE



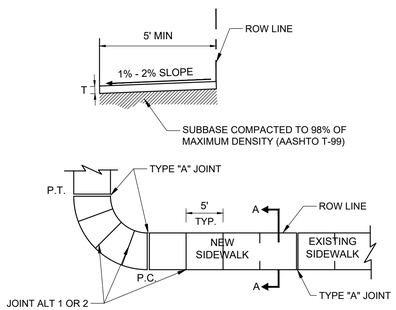
7 SAWCUT WIDENING DETAIL
NOT TO SCALE



8 THICKENED EDGE SIDEWALK DETAIL
NOT TO SCALE



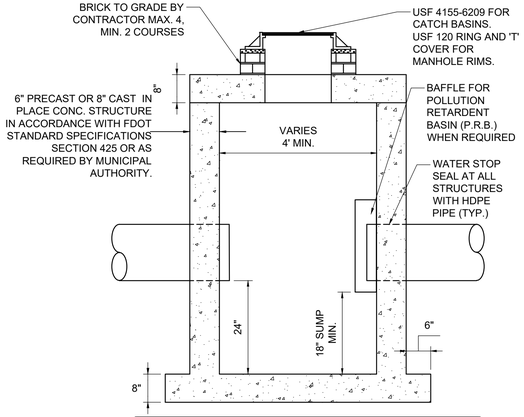
CONCRETE PAVEMENT & SIDEWALK JOINTS



SIDEWALK PLAN

NOTES:
1. Sidewalk construction is to comply with the latest FDOT standards for sidewalks and ADA curb ramps, per FDOT index 522-001 and 522-002.
2. Provide either joint alternate 1 or 2. If using joint alternate 2: construct type "E" joints at not more than 30' intervals - within 12 hours after finishing, construct 1/2" expansion, provide joint type "A", with non-rising performed joint filler at not more than 120' intervals, construct remaining joints within 96 hours after finishing.
3. Provide 1/2" expansion joint type "A", with non-rising performed joint filler where concrete pavement abuts concrete curbs, driveways and other fixed objects.
4. Sidewalk thickness shall be 4" thick unless otherwise noted. Thickness shall be 6" through driveways and on all commercial sidewalk applications.
5. The use of steel reinforcement is not permitted.
6. Concrete to be 3,000 psi in 28 days.
7. Cure all concrete with approved method.
8. Sidewalk foundation shall be compacted to a firm, even surface, true to grade and cross section, and shall be moist at the time concrete is placed.
9. All construction shall conform to local construction codes and standards.
10. Sidewalk slopes shall meet the requirements of the Americans with Disabilities Act. Minimum transverse slope 0.01 ft./ft. And maximum transverse slope 0.02 ft./ft. toward swale or gutter. Longitudinal slope shall conform to ADA requirements.
11. The vertical deviation for a new sidewalk shall not be more than ½".
12. The vertical deviation for a new maintenance access structure cover shall not be more than ¼".
13. Where truncated domes are used, stamped concrete is not permitted. Truncated domes to be cast with the concrete.
14. Sidewalk shall have a transverse hair broom finish.

9 SIDEWALK DETAIL
NOT TO SCALE



NOTES:
1. STRUCTURE MANUFACTURER AND/OR CONTRACTOR SHALL CONFIRM ALL STEEL REINFORCEMENT MEETS FDOT STANDARDS PER INDEX 425-010, SECTION 415 AND 425 PRIOR TO SUBMITTING ANY SHOP DRAWINGS FOR APPROVAL.
2. LOCKING GRATES TO BE PROVIDED.

10 CATCH BASIN / DRAINAGE MANHOLE DETAIL
NOT TO SCALE

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

DRAWN BY: NW/FA | DATE: 04/19/2022
DESIGNED BY: JW | SCALE: AS NOTED
CHECKED BY: TD | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
PAVING, GRADING, AND DRAINAGE DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

06/16/2022 - 30% SET

SHEET NO. **CP-501** OF
TOTAL:
CAD FILE:
DRAWING FILE NO. TBD

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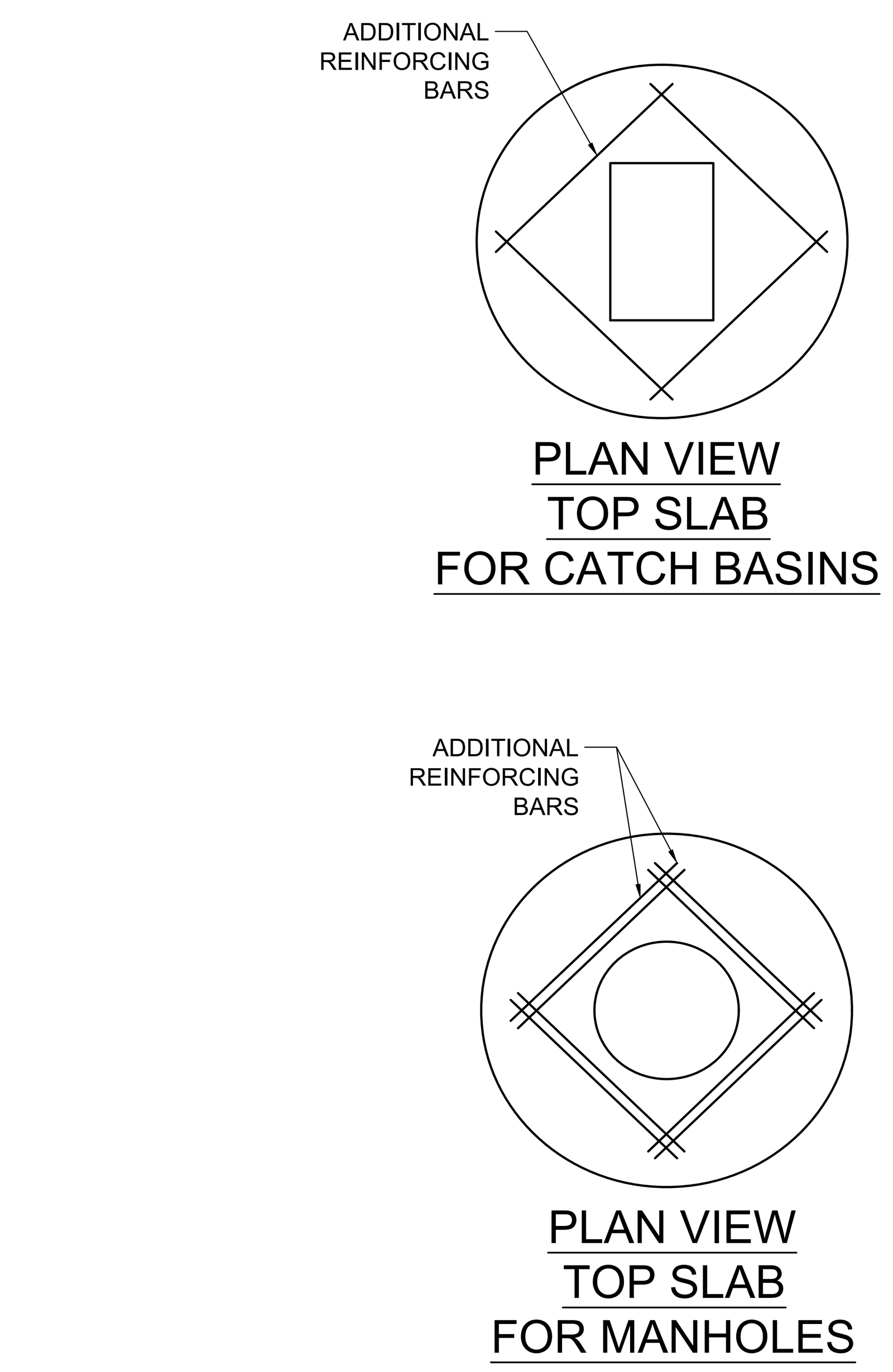
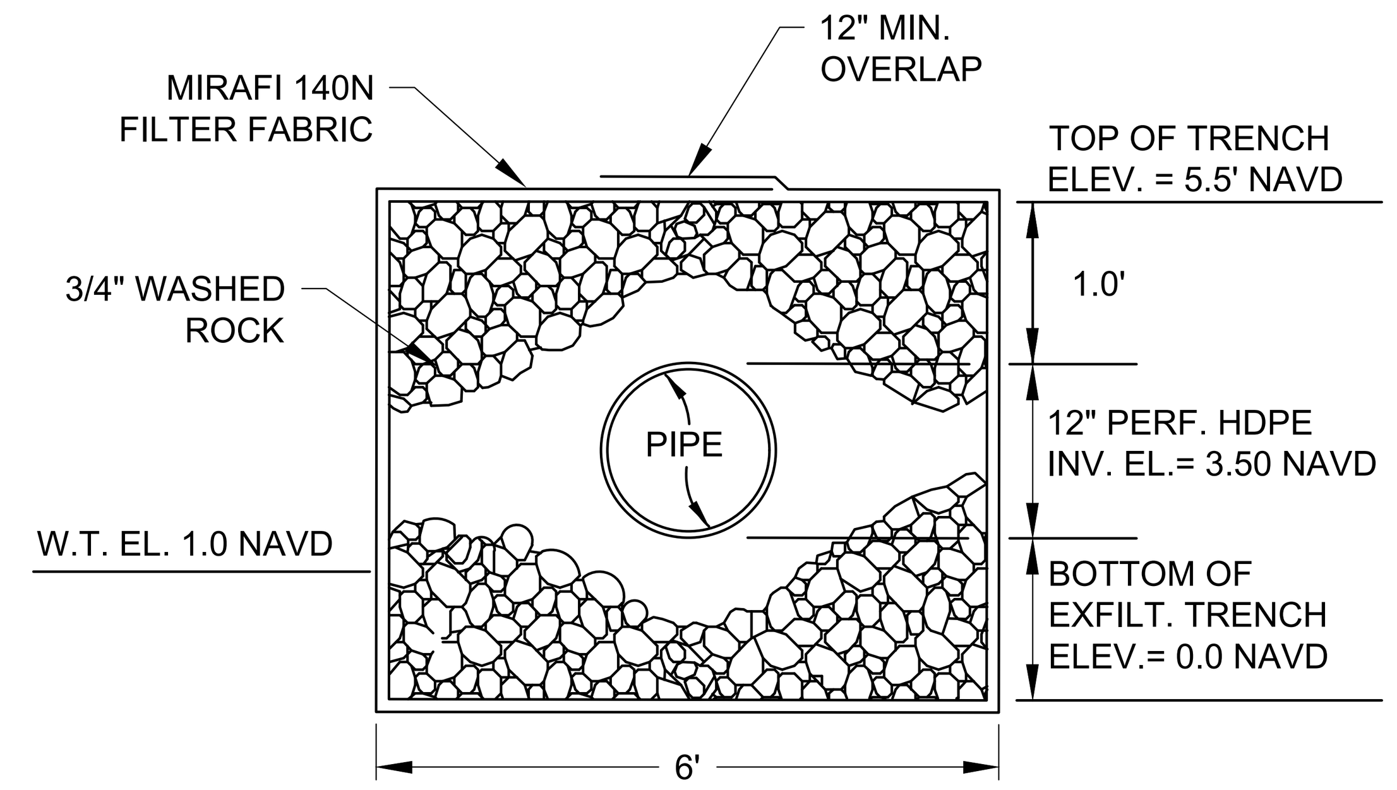
Drawing name:S:\11405.00 ISHOF Hensel Phelps\Engineering\Cadd\11405.00-CP-0XX.dwg Layout Name: FDOT DETAILS (1) Jul 26, 2022 - 4:16pm Plotted on: Jul 30, 2022 - 8:16pm



11 CATCH BASIN / MANHOLE FRAME DETAIL

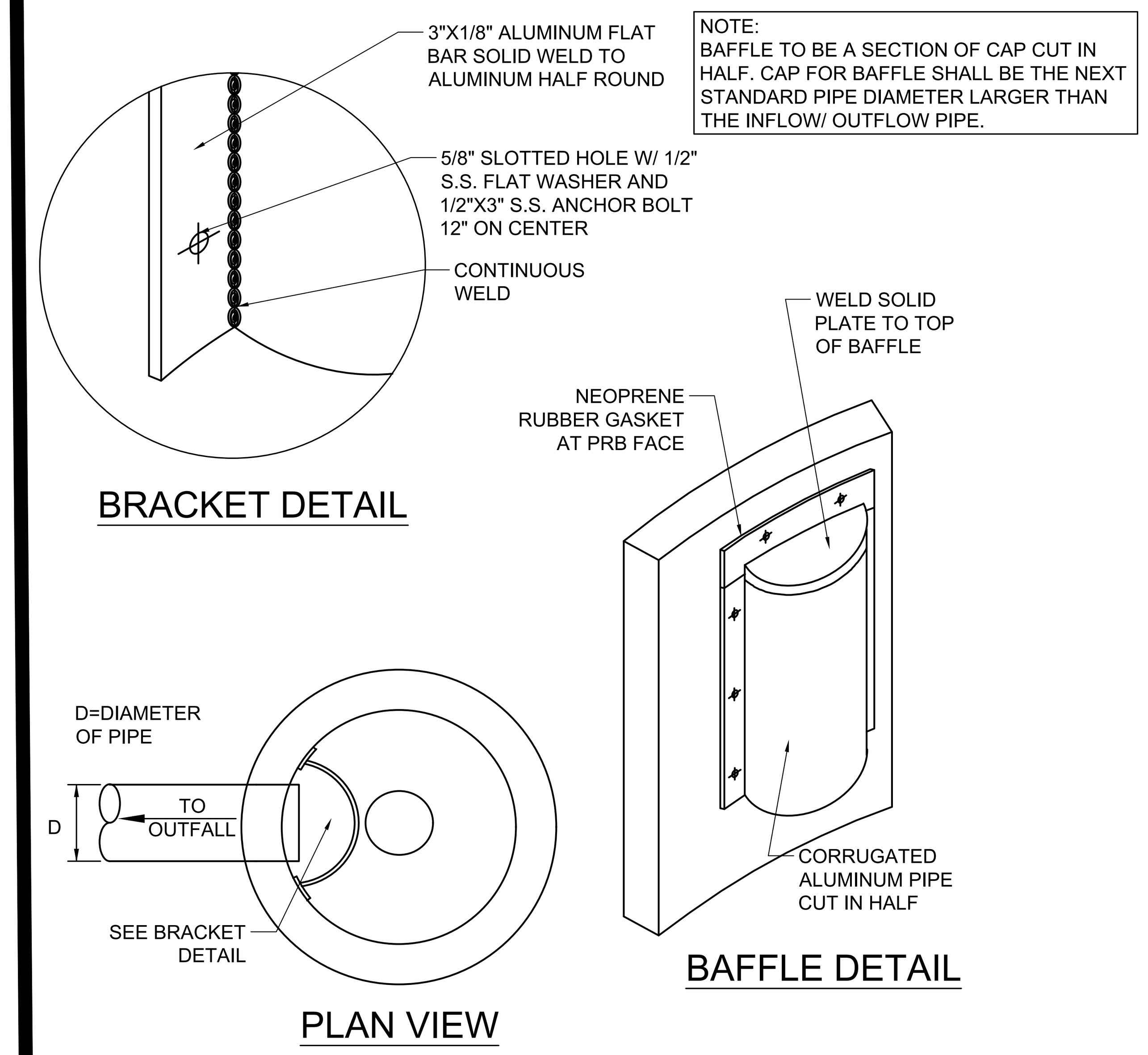
NOT TO SCALE



CONNECT TRENCH DRAIN TO EXFILTRATION TRENCH WITH 4" BOTTOM DROPOUTS EVERY 20 FEET.

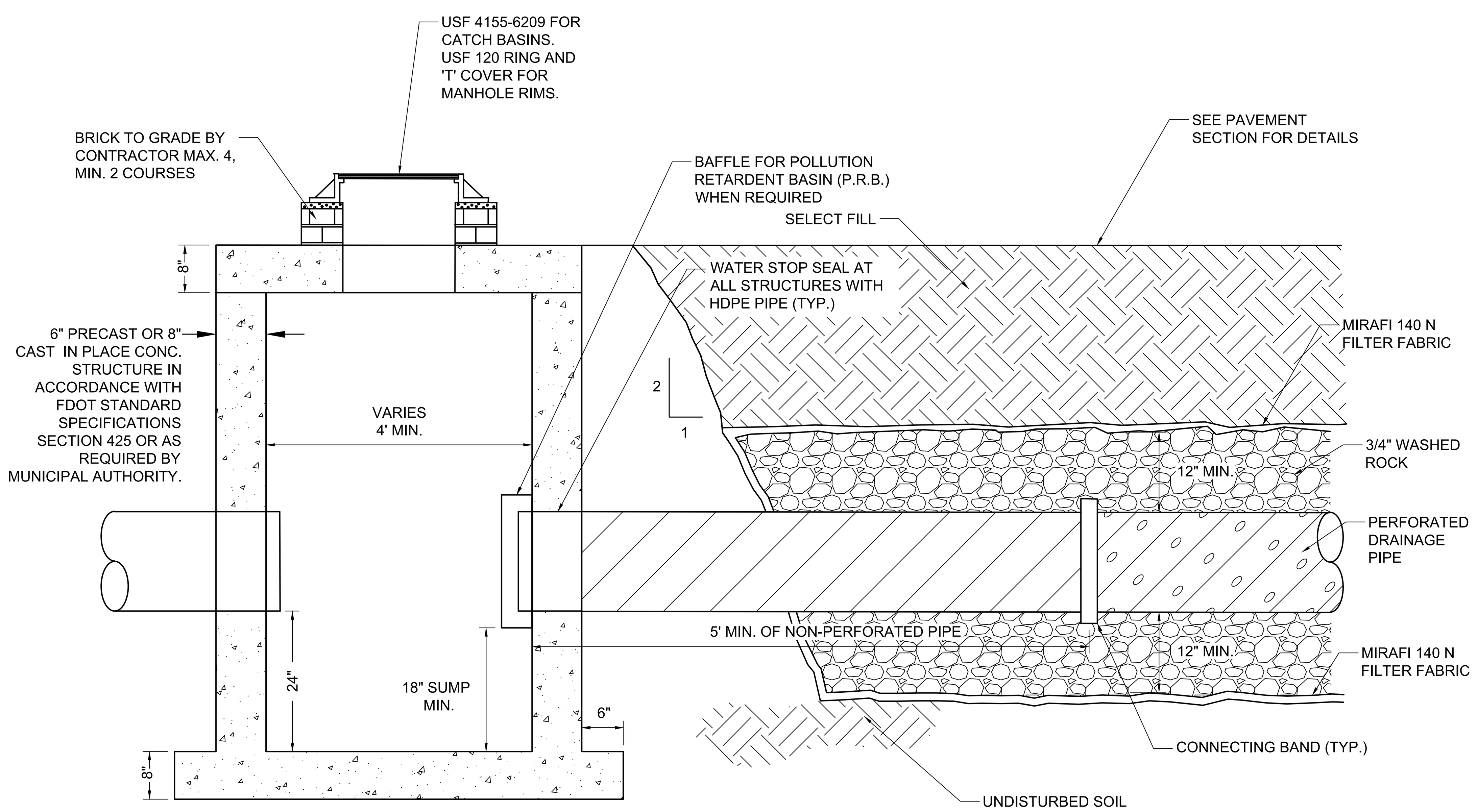
12 EXFILTRATION TRENCH DETAIL

NOT TO SCALE



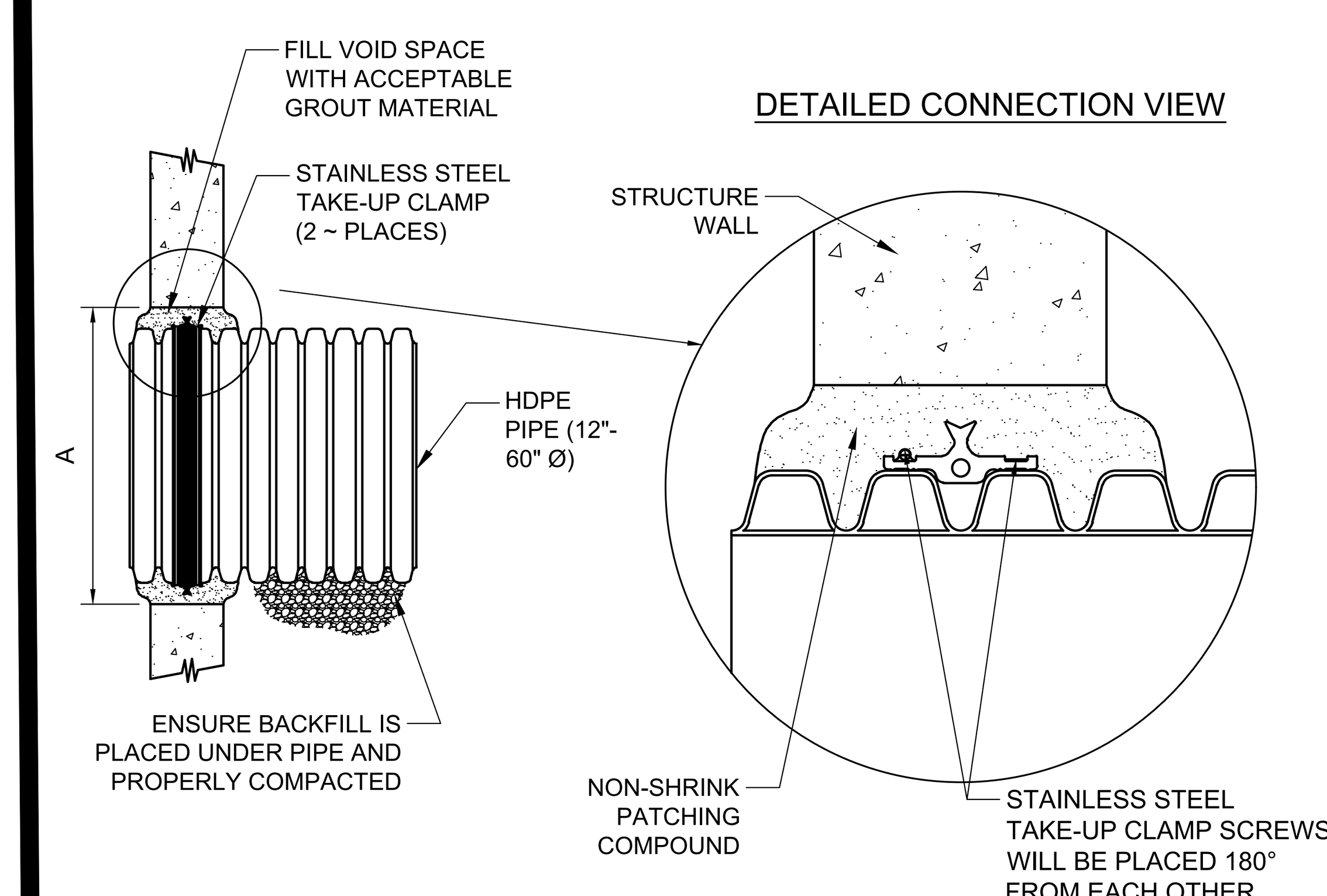
13 POLLUTION RETARDENT BAFFLE DETAIL

NOT TO SCALE



14 CATCH BASIN W/ PRB AND EXFILTRATION TRENCH

NOT TO SCALE



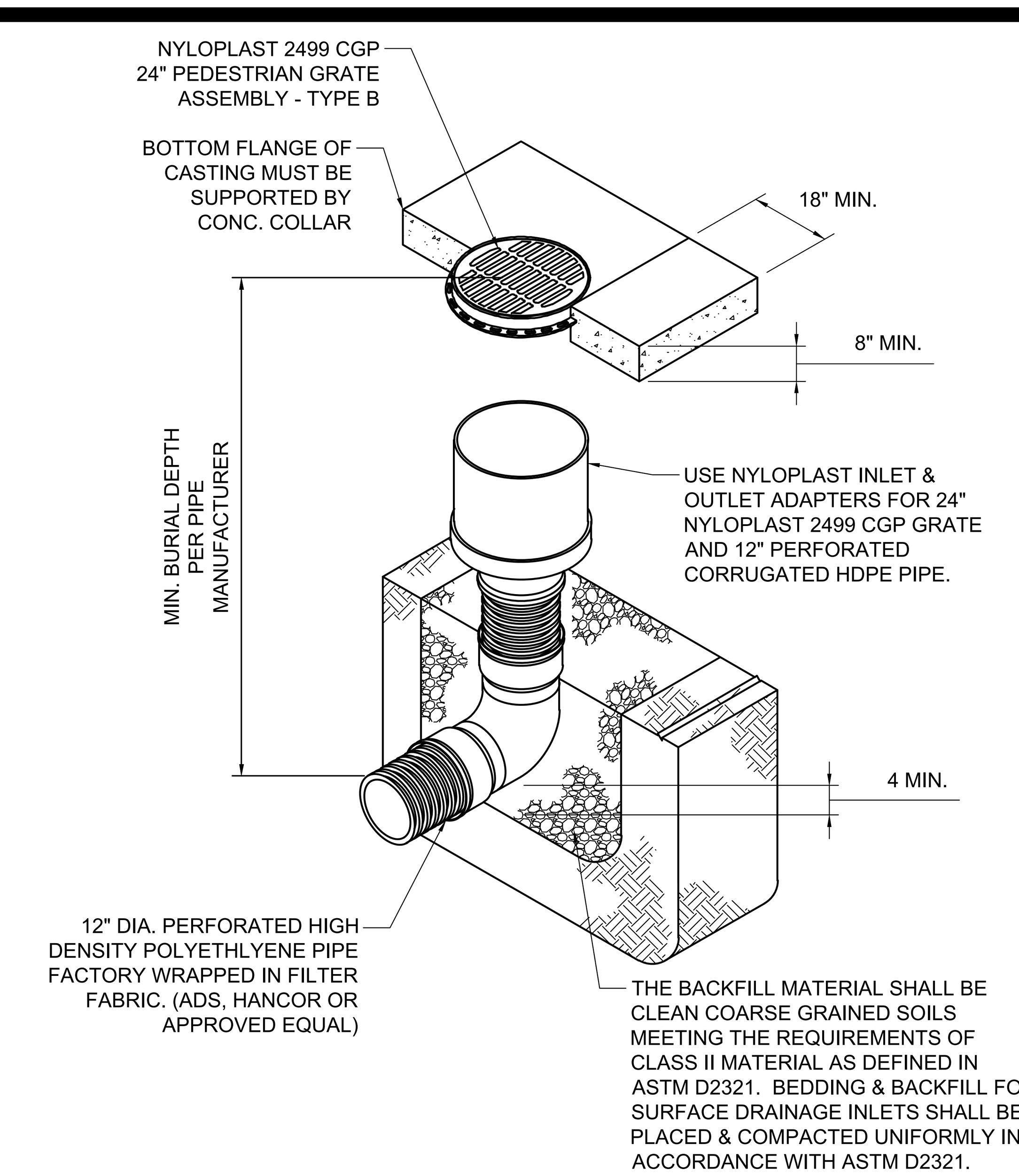
NOTES:
PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST ENSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

SEE ADS STANDARD DETAIL STD-201 AND ADS INSTALLATION GUIDE 1.05: WATERSTOP INSTALLATION FOR INSTALLATION RECOMMENDATIONS.

PIPE SIZE	PIPE OD		"A" MIN. HOLE DIA.	MIN. DISTANCE PIPE INVERT TO STRUCTURE INVERT
	A-PROFILE	H-PROFILE		
12"	14.5"	N/A	19.5"	3.7"
15"	17.6"	N/A	23.00"	4.0"
18"	21.2"	N/A	26.50"	4.2"
24"	27.8"	N/A	33.25"	4.5
30"	35.1"	N/A	40.50"	5.2"
36"	41.1"	41.1"	47.00"	5.5"
42"	47.7"	48.0"	53.00"	5.7"
48"	53.6"	54.0"	59.00"	5.7"
60"	66.3"	67.3"	72.00"	6.4"

15 GROUTED MANHOLE CONNECTION (HDPE PIPE) DETAIL

NOT TO SCALE



NOTES:
1. GRATE SHALL MEET H-20 LOAD RATING

16 INLINE DRAIN DETAIL

NOT TO SCALE

THOMAS F. DONAHUE, P.E.
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KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
PAVING, GRADING, AND DRAINAGE DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: NW/FA	DATE: 04/19/2022
DESIGNED BY: JW	SCALE: AS NOTED
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FIELD BOOK:	

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

SHEET NO. CP-502 OF
TOTAL:
CAD FILE:
DRAWING FILE NO. TBD

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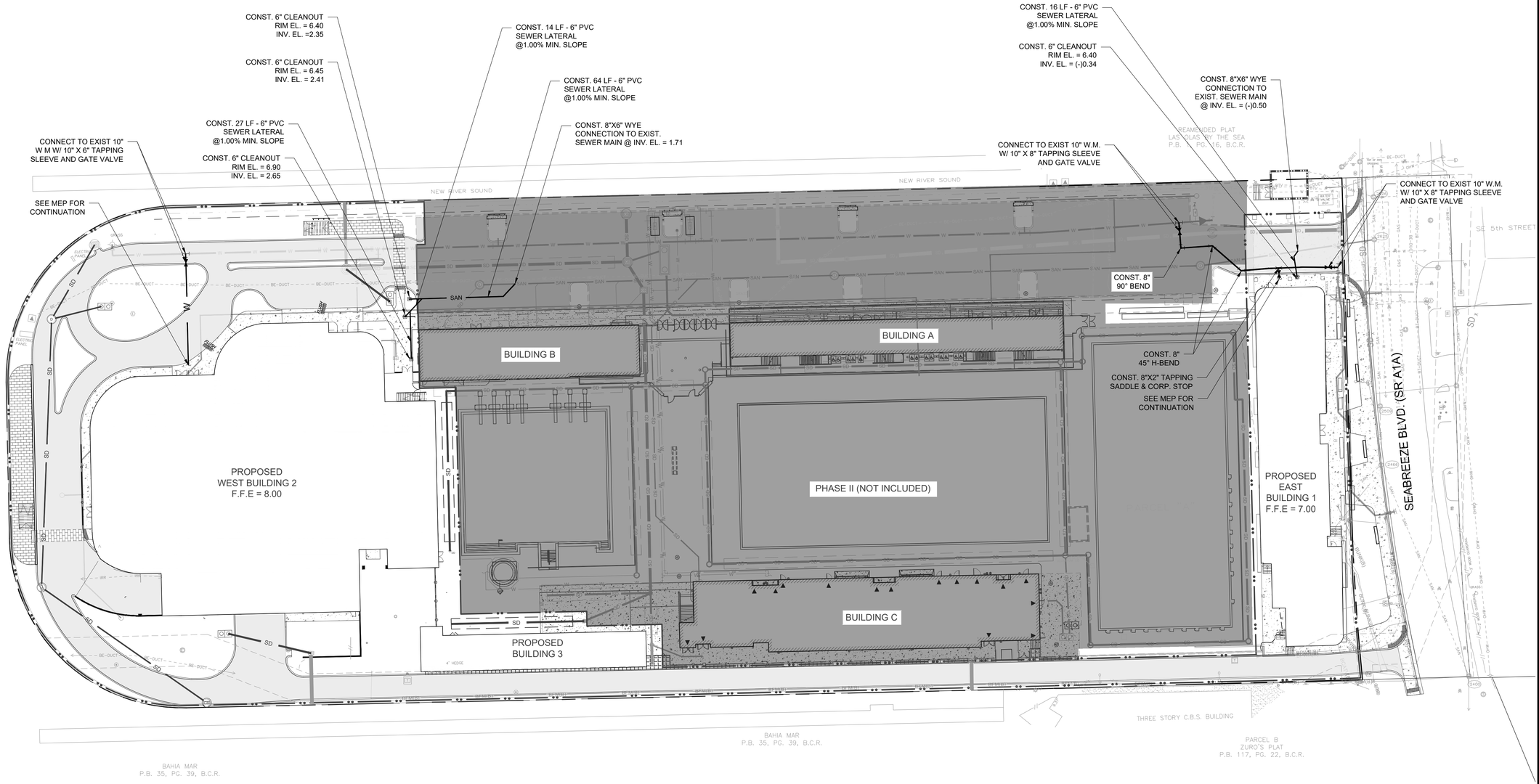
GRAPHIC SCALE
0 30 60
SCALE: 1" = 30 '

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.



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DESIGNED BY: JW
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DATE: 04/19/2022
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FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
WATER AND SEWER PLAN
501 SEABREEZE BLVD., FT. LAUD., FL.33316

06/16/2022 - 30% SET

SHEET NO. CU-101 OF
TOTAL:
CAD FILE: 11405.00-CU-1XX
DRAWING FILE NO. TBD

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
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KEITH PROJECT No. 11405.00

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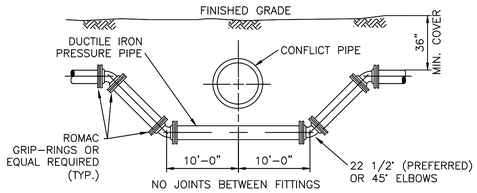
Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Engineering\Cadd\11405.00-CU-1XX.dwg Layout Name: WATER AND SEWER PLAN Plotted by: mamrick Plotted on: Jun 30, 2022 - 6:16pm



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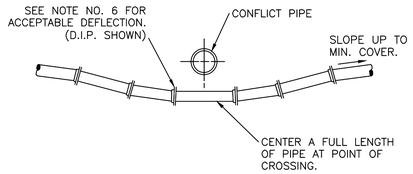


DEFLECTION TYPE

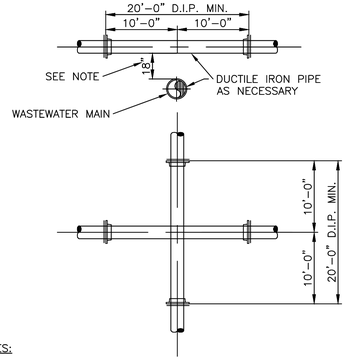
400 PRESSURE PIPE CONFLICT DETAIL
Scale: 1" = 10'

NOTES:

1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
2. MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN. MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN.
3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.
4. FITTINGS SHALL BE RESTRAINED.
5. THE DEFLECTION TYPE CROSSING IS PREFERRED.
6. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION FOR DUCTILE IRON PIPE. NO DEFLECTION AT THE JOINT IS ALLOWED FOR P.V.C. PIPE. BENDING OF P.V.C. PIPE SHALL NOT EXCEED THE FOLLOWING PARAMETERS:

PVC PIPE SIZE (INCH)	MIN. ALLOWED RADIUS (FT.)	MAX. DEFLECTION (INCH) PER 20' LENGTH
6"	300	8"
8"	400	6"
10"	600	4"
12"	600	4"

401 PRESSURE PIPE CONFLICT NOTES
Scale: N/A



NOTES:

1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 18" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
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4. FITTINGS SHALL BE RESTRAINED.
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PVC PIPE SIZE (INCH)	MIN. ALLOWED RADIUS (FT.)	MAX. DEFLECTION (INCH) PER 20' LENGTH
6"	300	8"
8"	400	6"
10"	600	4"
12"	600	4"

402 STANDARD WATER AND SEWER SEPARATION DETAIL
Scale: 1" = 10'

I. FORCE MAIN AND WATER MAIN OUTSIDE OF WELLFIELD PROTECTION ZONE

MAXIMUM QUANTITY OF WATER (GALLONS PER HOUR) THAT MAY BE SUPPLIED TO MAINTAIN PRESSURE WITHIN 5 P.S.I. OF THE SPECIFIED TEST PRESSURE.

(MECHANICAL OR PUSH-ON JOINT, 18 FT. NOMINAL LENGTHS, PER 1000 FT. OF PIPE)

AVG. TEST PRESSURE	PIPE DIAMETER (INCHES)											
PSI	2	3	4	6	8	10	12	14	16	18	20	24	30
150	0.10	0.14	0.18	0.27	0.37	0.46	0.55	0.64	0.73	0.83	0.92	1.10	1.38

NOTES:

1. TO OBTAIN THE MAXIMUM QUANTITY OF WATER FOR PIPE WITH 20 FT. NOMINAL LENGTHS, MULTIPLY THE QUANTITY CALCULATED FROM THE TABLE BY 0.9.<<
2. THE MAXIMUM QUANTITY OF ADDED WATER FOR A PIPELINE IS CALCULATED BY MULTIPLYING THE QUANTITY PER HOUR AS OBTAINED FROM THE ABOVE TABLE, BY THE DURATION OF THE TEST IN HOURS, AND BY THE TOTAL LENGTH OF THE LINE BEING TESTED DIVIDED BY 1,000. IF THE LINE UNDER TEST CONTAINS SECTIONS OF VARIOUS DIAMETERS, THE MAXIMUM QUANTITY ADDED WILL BE THE SUM OF THE COMPUTED QUANTITIES FOR EACH SIZE.<<
3. MAXIMUM TEST LENGTH = 2,500 FEET PER SECTION.<<
4. THIS STANDARD SHALL REFLECT ANY REVISION OF A.W.W.A. C-600-05. HOWEVER, THE MAXIMUM QUANTITY OF WATER ADDED SHALL NOT EXCEED 50% OF RECOMMENDED LIMIT PER APPLICABLE AWWA C-600-05 STANDARD.<<
5. STANDARD TEST PRESSURE = 150 P.S.I.
6. FORMULA BASIS: $L = \frac{(S)x(D)x(P)^{\frac{1}{2}}}{148,000}$

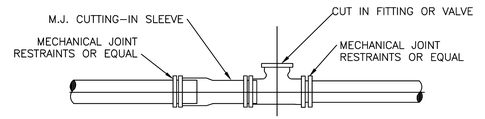
   L = MAXIMUM QUANTITY OF WATER TO BE ADDED (GALLONS PER HOUR)
   S = LENGTH OF PIPE TESTED (FEET)
   D = DIAMETER OF PIPE (INCHES)
   P = TEST PRESSURE (P.S.I.)

7. PRESSURE TEST DURATION TO BE MIN. 2 HOURS.
8. DISINFECTION OF MAINS SHALL COMPLY WITH A.N.S.I./A.W.W.A. C-651-05 STANDARD.
9. DUCTILE IRON WATER MAIN PIPE SHALL CONFORM TO THE REQUIREMENTS OF A.N.S.I./A.W.W.A. C-151-'02.

II. FORCE MAIN AND WATER MAIN WITHIN WELLFIELD PROTECTION ZONE.

NOTES:
1. PRESSURE TEST PROCEDURE TO FOLLOW THE CURRENT AWWA C-600-05 STANDARD (150psi, (2) HOUR DURATION). THERE SHALL BE NO PRESSURE DROP IN THE PIPE DURING THE TEST ("ZERO" FILL-UP TOLERANCE).

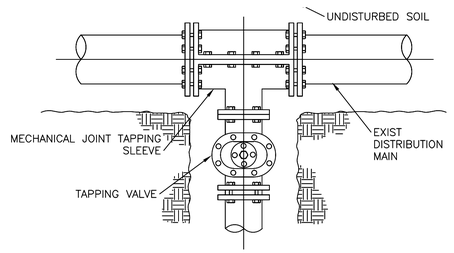
403 PRESSURE TEST CRITERIA
Scale: N/A



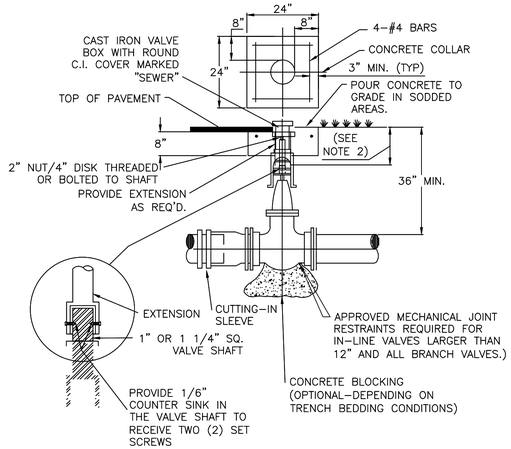
DUCTILE IRON-MECHANICAL JOINT (FORCE MAIN)

1. MECHANICAL JOINTS RESTRAINTS ARE REQUIRED THROUGHOUT ASSEMBLY.

404 PRESSURE PIPE STANDARD CUT-IN DETAIL
Scale: 1" = 10'



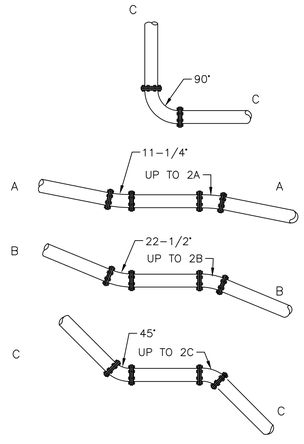
405 PLAN TAPPING TEE ASSEMBLY DETAIL
Scale: 1" = 10'



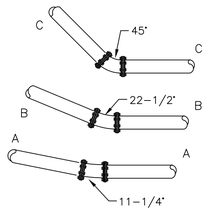
NOTES:

1. CONCRETE COLLAR IS NOT REQUIRED IN PAVED AREAS IF PAVEMENT SURFACE IS FINISHED PRIOR TO CONDITIONAL FINAL INSPECTION.
2. WHEN VALVE NUT IS DEEPER THAN 36" AN EXTENSION WITH UNIVERSAL JOINT SHALL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS SHALL BE 316 STAINLESS STEEL. A 316 STAINLESS STEEL CENTERING PLATE SHALL ALSO BE REQUIRED. VALVE BOXES SHALL HAVE LOCKING COVERS MARKED "SEWER" OR "WATER".
3. EXTENSION RISER TO BE D.I.P.
4. AT DEAD END OR WHERE MAIN LINES CHANGE DIRECTION, VALVES SHALL BE RESTRAINED USING MECHANICAL JOINT RESTRAINT.

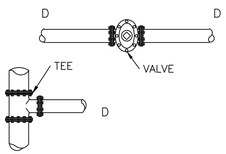
406 TYPICAL VALVE DETAIL
Scale: 1" = 2'



OFFSETS



DEFLECTIONS



DEAD ENDS

SIZE	DISTANCE IN FEET A & B	C	D
4"	18	18	54
6"	18	18	72
8"	18	36	90
10"	18	36	108
12"	18	36	126
14"	18	54	144
16"	18	54	162
18"	18	54	180
20"	18	72	198
24"	18	72	216

NOTE:
1. FOR PIPE SIZE OVER 24" SEE SPECIFICATIONS
2. RESTRAIN AS SHOWN ON DRAWINGS.

409 MINIMUM RESTRAINED JOINT LENGTH FOR PRESSURE MAINS
N.T.S.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

DRAWN BY: NW/FA | DATE: 04/19/2022
DESIGNED BY: JW | SCALE: AS NOTED
CHECKED BY: TD | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

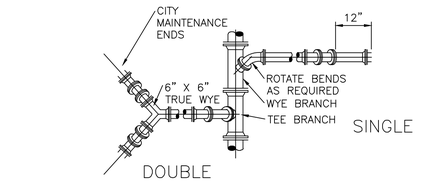
PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
WATER AND SEWER DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

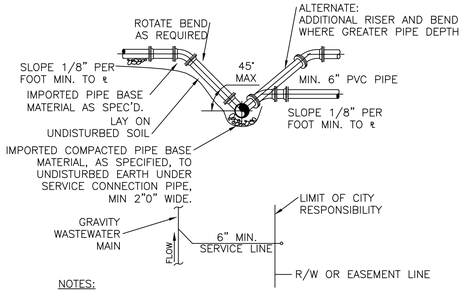
SHEET NO. CU-501 | OF
TOTAL:
CAD FILE: 11405.00-CU-5XX
DRAWING FILE NO. TBD

S:\11405.00 - ISHOF -HENSEL PHELPS\ENGINEERING\CADD\11405.00-CU-5XX.DWG

PRESS01

Drawing name: S:\11405.00 ISHOF Hensel Phelps\Engineering\Cadd\11405.00-CU-0XX.dwg Layout Name: WATER AND SEWER DETAILS-1 Plotted by: mwnick Plotted on: Jun 30, 2022 - 4:16pm



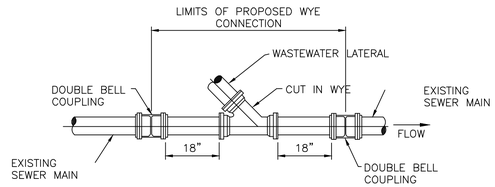


NOTES:

1. WASTEWATER MAIN WYE BRANCH TO MATCH MAIN PIPE MATERIAL.
2. NO 90° BENDS SHALL BE USED FOR WASTEWATER SERVICE AND CLEANOUT INSTALLATIONS.
3. SERVICE LATERALS SHALL TERMINATE AT 12" INSIDE THE PROPERTY LINE AT A DEPTH OF 3 FEET EXCEPT WHERE A DEEPER INVERT IS REQUIRED BY EXISTING BUILDING CONDITIONS.

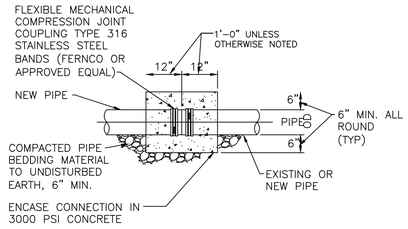
208 TYPICAL WASTEWATER SERVICE CONNECTION

N.T.S.



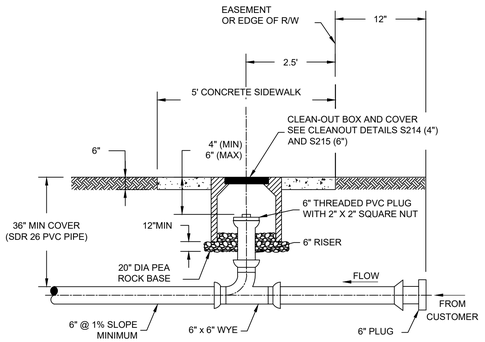
210 NEW LATERAL ON EXISTING GRAVITY WASTEWATER MAIN

N.T.S.

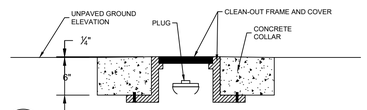


211 JOINT FOR DISSIMILAR GRAVITY SEWER PIPE

N.T.S.



1. THE CLEAN OUT SHALL BE INSTALLED IN THE MIDDLE OF THE SIDEWALK. THIS DIMENSION WILL VARY DEPENDING UPON THE WIDTH OF THE SIDEWALK. 2.5' APPLIES TO 5' SIDEWALK WIDTH. IF SIDEWALKS DO NOT EXIST, THE CLEAN OUT SHALL BE INSTALLED 2.5' FROM THE RIGHT OF WAY LINE.
2. A NEW SECTION OF SIDEWALK SHALL BE POURED AROUND THE CLEAN-OUT BOX WHEN WORKING IN AN AREA WITH EXISTING SIDEWALKS.
3. IN UNPAVED AREAS 24 INCH-SQUARE OR 24 INCH DIAMETER CONCRETE COLLAR (3,000 PSI AT 28 DAYS), FORMED UP AROUNF THE CLEAN-OUT BOX HAVING A DEPTH OF 6 INCHED. THE COMPLETED CONCRETE COLLAR SHALL BE BROOM FINISHED AND LEVEL WITH THE CLEAN-OUT BOX COVER AND FINISHED GRADE ELEVATION OF SURROUNDING GRASS, MULCH, GRAVEL, OR OTHER SLOPE COLLAR FROM CENTER TO EDGE 1/4 INCH PER DETAIL S213A.

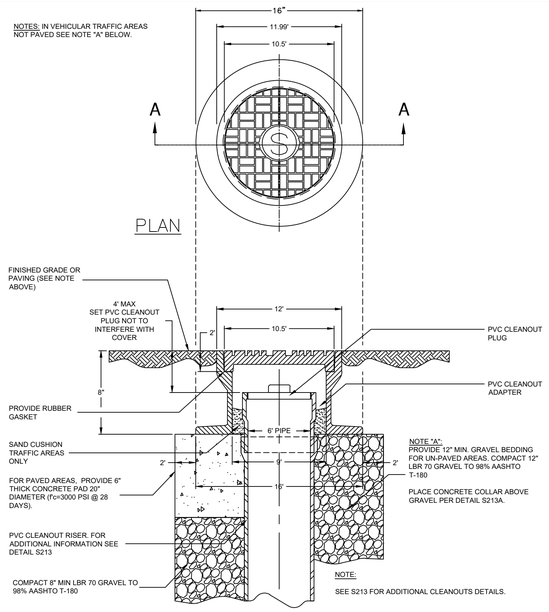


213A CONCRETE COLLAR FOR CLEANOUTS

N.T.S.

213 SANITARY SERVICE CONNECTION AT PROPERTY LINE OR EASEMENT LINE (PROFILE)

N.T.S.



215 CLEAN-OUT COVER ASSEMBLY FOR 6-INCH CLEANOUTS

N.T.S.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
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KEITH PROJECT No. 11405.00

DRAWN BY:	DATE:
NW/FA	04/19/2022
DESIGNED BY:	SCALE:
JW	AS NOTED
CHECKED BY:	
TD	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS			
NO.	DATE	BY	CHK'D

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
WATER AND SEWER DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

06/16/2022 - 30% SET

SHEET NO.	OF
CU-502	

TOTAL:

CAD FILE:
11405.00-CU-5XX

DRAWING FILE NO.
TBD

S:\11405.00 - ISHOF -HENSEL PHELPS\ENGINEERING\CADD\11405.00-CU-5XX.DWG

Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Engineering\Cadd\11405.00-CU-XXX.dwg Layout Name: WATER AND SEWER DETAILS Plotted on: Jun 30, 2022 - 8:59pm Plotted by: rwelnick

PRESS01

LEGEND:

SYMBOL	DESCRIPTION
M	WATER METER BOX
	EXISTING VALVE
	PROPOSED VALVE
	FIRE HYDRANT
	BENCH MARK
xx'	TREE
NBC	NAIL IN BOTTLE CAP
NIA	NAIL IN ASPHALT
—G—	GAS LINE
—W—	WATER MAIN
—BT—	BURIED TELEPHONE
—T—	TELEPHONE
—UE—	UNDERGROUND ELECTRIC
—FM—	FORCE MAIN
—OH—	OVERHEAD WIRES
—CATV—	CABLE TELEVISION
—X—X—	CHAIN LINK FENCE
	WOOD FENCE
#.##	EXISTING ELEVATION
SOIL BORE	SOIL BORING LOCATION MARK
	SOIL TYPE SEPERATION MARK

WATER SYSTEM NOTES:

PIPE D.I.P.

1. Ductile Iron water main pipe shall conform to the requirements of A.N.S.I./ A.W.W.A. C–151/A 21.51–02 and lined and coated per A.N.S.I./A.W.W.A. C–104/A–214–03. 20" and smaller pipe shall be pressure class 350; 24" and larger, pipe shall be pressure class 250.
2. All DIP shall have adequate protective measures against corrosion and it shall be used only if as determined by the design engineer, based on field conditions.
3. All DIP shall be installed in accordance with A.N.S.I./A.W.W.A. C–600–99, or latest revision.

PIPE P.V.C.

4. All P.V.C. mains shall be series 1120, class 150 (DR 18) pressure pipe, conforming to A.N.S.I./A.W.W.A. C–900–07', or latest revision, and shall have push on joints, and iron pipe O.D.
5. All P.V.C. pipe shall be installed in accordance with the Uni–Bell plastic pipe Association's "Guide for installation of P.V.C. pressure pipe for Municipal water distribution system". Water distribution pipe shall be of "BLUE" color. All water main installations shall comply with the color coding requirements of Chapter 62–555.320(21)(b)3 F.A.C. (Florida Administrative Code).
6. Detector tape on all P.V.C. mains shall be installed 18" above the water main.
7. All P.V.C. mains must have #6 copper wire, single strand, placed on top of pipe, shall be electrically continuous over the entire length of the pipe, and fastened every 10' with a #12 wire.

FITTINGS

8. Fittings shall be ductile iron meeting A.N.S.I./A.W.W.A. C153/21.00 and shall be coated with 6 to 8 mil. Thickness coal tar epoxy conforming to the requirements of A.N.S.I./A.W.W.A. C550–05 and C116/A21.03.
9. Restrained joint pipe shall be used for all bends, tees, crosses, plugs, and fire hydrants. Thrust blocks shall not be allowed.
10. Retainer glands/mechanical joint restraint shall be used only if authorized by the Engineer and shall conform to A.N.S.I./A.W.W.A. standards C 111/A–21.11–03, or latest revision.
11. All glands shall be manufactured from ductile iron as listed by underwriter's laboratory for 250 P.S.I. minimum water pressure rating.
12. Glands shall be CLOW Corporation model F–1058, standard fire protection equipment company, or approved equal.

VALVES

13. Tapping valves shall be Mueller H667 or approved equal.
14. Tapping sleeves shall be Mueller H615 or approved equal.
15. Gate valves 3" or less shall be NIBCO T–133 OR T–136 with malleable hand wheels. No substitutions allowed.
16. Gate valves 4" or larger shall meet A.W.W.A. C–500–02 specification (latest revision). Valves shall be Mueller Co. or approved equal.
17. All valves shall be furnished with extension type cast iron valve boxes of proper length for pipe depth. All boxes shall conform with A.W.W.A. specifications with a shaft of no less than 5 inches and have the word "WATER" cast in the cover. Base of valve box shall have a flared section to fit over stuffing box of valve.

HYDRANTS

18. Fire hydrants shall be breakaway Mueller Super Centurion 250, US Pipe Metropolitan 250, American Darling B–84B, Clow Medallion, or approved equal.
19. Fire hydrants shall be installed with the center of the nozzle 18" above finished grade.
20. Dead–end water mains 6" or larger shall terminate with a fire hydrant.

PLACEMENT

21. All water mains shall be installed with a minimum cover of 36" for P.V.C and 30" for DIP except where shown differently on plans.
22. A continuous and uniform bedding shall be provided. Backfill material shall be tamped in layers around the pipe as shown on the plans and/or City of Fort Lauderdale Construction Standards and Specifications, January 1982. Rocks or stones larger than 3/4" diameter found in the trench shall be removed for a depth of at least 6" below the bottom of the pipe.
23. Pipe deflection shall not exceed 75% of the maximum deflection recommended by the manufacturer.

SEPARATION

24. Sanitary sewers and force mains should cross under water mains whenever possible. Sanitary sewers and force mains crossing water mains shall be laid to provide a minimum vertical distance of 18" between the invert of the upper pipe and the crown of the lower pipe whenever possible.
25. Where sanitary sewer force mains must cross a water main with less than 18" vertical separation, both the sewer and water main shall be constructed of ductile iron pipe (DIP) at the crossing. Sufficient lengths of DIP must be used to provide a minimum separation of 10 feet between any two joints. All joints on the water main within 20 feet of the crossing must be mechanically restrained. A minimum vertical clearance of 6" must be maintained at all crossings.
26. A minimum 10 foot horizontal separation shall be maintained between any type of sewer and water main in parallel installations whenever possible.
27. The preferred separation between water mains and sewer mains shall be 10 feet. In cases where it is not possible to maintain a 6 foot horizontal separation between the water mains and sewer mains, one of the following conditions must be met. The minimum separation between water and sewer mains shall be 3 feet:

SEPARATION (CONT'D)

27.a The water main must be laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer or force main at such elevation that the bottom of the water main is at least 18 inches above the top of the sewer.

27.b The sewer or force main is encased in concrete or a watertight carrier pipe.

27.c Both the sewer and the water main are constructed of pressure pipe tested to 150 p.s.i.

28. Where it is not possible to maintain a vertical distance of 18" in parallel installations, the water main shall be constructed of DIP and the sanitary sewer or force main shall be constructed of DIP, with a minimum vertical clearance of 6". The water main should be above the sewer. Joints on the water main shall be located as far apart as possible from the joints on the sewer or force main (staggered joints).
29. All crossings shall be arranged so that the sewer pipe joints and the water main pipe joints are equidistant from the point of crossing (pipes centered on the crossing).
30. Where a new pipe conflicts with an existing pipe with less than 18" vertical clearance, the new pipe shall be arranged to meet the crossing requirements above.

TESTING, DISINFECTION

31. Pipe shall be tested under constant pressure of 150 P.S.I. for a minimum test period of 2 hours and shall not exceed the leakage requirements as per A.N.S.I./A.W.W.A. specifications of C–600–05 leakage formula: $Q = (LD\sqrt{P})/\ 148{,}000$
    Q = QUANTITY OF MAKEUP WATER, (IN GALLONS PER HOUR)
    L = LENGTH OF PIPE SECTION BEING TESTED, (IN FEET).
    D = NOMINAL DIAMETER OF THE PIPE, (IN INCHES).
    P = AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST, (IN POUNDS PER SQUARE INCH GAUGE).
32. The City of Fort Lauderdale Public Services Department will take all bacteriological tests, to be scheduled via inspector. If otherwise specified in contract detailed specification and/or authorized by the engineer of record, bacteriological tests may be performed by a certified environmental testing laboratory.
33. Disinfection of mains shall comply with A.N.S.I./A.W.W.A. C–651–05 standard. Bacteriological sampling points shall be designated on the engineering plans. Minimum one sampling point at each end. Maximum space between sampling points is 1200 feet.

CONNECTION

34. All connections to existing mains shall be made under the direction of the City of Fort Lauderdale.
35. There shall be no connection to an existing water main until pressure and bacteriological tests have been conducted and the results are approved and accepted by the City of Fort Lauderdale.

SERVICE CONNECTIONS

36. All meter service connections shall be bronze from plug valve. No gate valves are to be used (2" or less).
37. Service saddles shall be ductile iron with stainless steel straps. Saddles shall be double strap type. All service saddles shall conform to A.N.S.I./A.W.W.A. C 111/A–21.11–00 and A.S.T.M. A588.
38. All service lines shall be copper tubing, type "K", or plasticized polyethylene 3408, A.S.T.M. D–2737, S.D.R. 9, 200 P.S.I.

GENERAL NOTE:

ALL EXISTING 2" WATER MAINS ARE TO BE CAPPED AND ABANDONED IN PLACE.
NEW WATER SERVICE LINES SHALL BE INSTALLED TO SERVICE THE EXISTING PROPERTIES.

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
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CHECKED BY: TD | FIELD BOOK:

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PUBLIC WORKS DEPARTMENT
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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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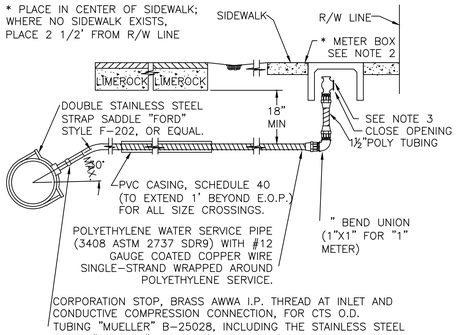
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
WATER AND SEWER DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. CU-503 | OF
TOTAL:
CAD FILE: 11405.00-CU-5XX
DRAWING FILE NO. TBD

S:\11405.00 – ISHOF –HENSEL PHELPS\ENGINEERING\CADD\11405.00–CU–5XX.DWG

Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Engineering\Cadd\11405.00-CU-5XX.dwg Layout Name: WATER AND SEWER DETAILS4 Plotted on: Jun 30, 2022 - 4:16pm Plotted by: rwenck

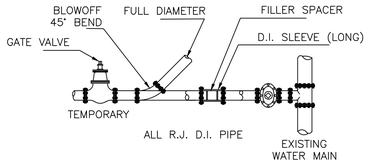


NOTE:

1. GROUND KEY ANGLE METER STOP,CONDUCTIVE COMPRESSION FOR CTS O.D. TUBING, X METER FLANGE 180° TURN CHECK-LOCK WING "MUELLER" H-14277, FOR 2-INCH INCLUDING THE STAINLESS STEEL LINER, "MUELLER" 506141 (FOR 2-INCH) OR APPROVED EQUAL, AND MUELLER 110 COMPRESSION CONNECTION.
2. METER BOXES FOR 5/8, 3/4, AND 1 INCH METERS SHALL BE THE OKIE DOKIE #890-40-260282 MEDIUM BOX AND 890-40-260257 MEDIUM LID OR EQUAL.
3. CONNECT ANGLE VALVE TO EXISTING METER WHERE APPLICABLE.

300 TYPICAL WATER SERVICE INSTALLATION

Scale: 1" = 2'

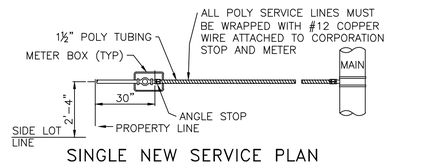


NOTES:

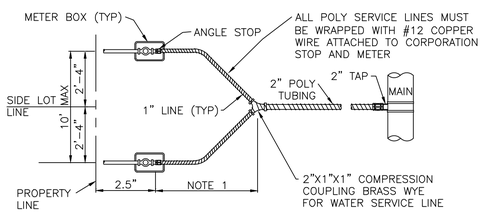
1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE SWABBED AND FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. TEMPORARY FITTINGS, PIPE, ETC. MAY BE NEEDED TO FACILITATE FLUSHING.
2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY THE CITY INSPECTOR OF SUCH INTENDED WATER USE.
5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED CITY PERSONNEL.
6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE CITY INSPECTOR.
7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
8. THERE MAY BE SPECIAL REQUIREMENTS FOR FLUSHING PIPE LARGER THAN 12" DIAMETER.

303 FLUSHING CONNECTION AND BLOW OFF DETAIL

Scale: 1" = 2'



SINGLE NEW SERVICE PLAN



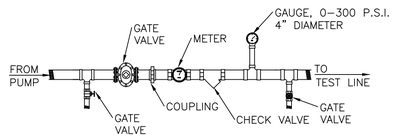
NOTE:

1. KEEP 1½" WYE AS CLOSE AS POSSIBLE TO METER BOX.

DOUBLE NEW SERVICE PLAN

301 TYPICAL WATER SERVICE

Scale: 1" = 3'



NOTE:
PRESSURE TEST TO INCLUDE SERVICES TO ANGLE STOP.

306 PRESSURE TEST DETAIL

Scale: 1" = 2'

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

DRAWN BY: NW/FA | DATE: 04/19/2022
DESIGNED BY: JW | SCALE: AS NOTED
CHECKED BY: TD | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
WATER AND SEWER DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. CU-504 | OF
TOTAL:
CAD FILE: 11405.00-CU-5XX
DRAWING FILE NO. TBD

S:\11405.00 - ISHOF -HENSEL PHELPS\ENGINEERING\CADD\11405.00-CU-5XX.DWG

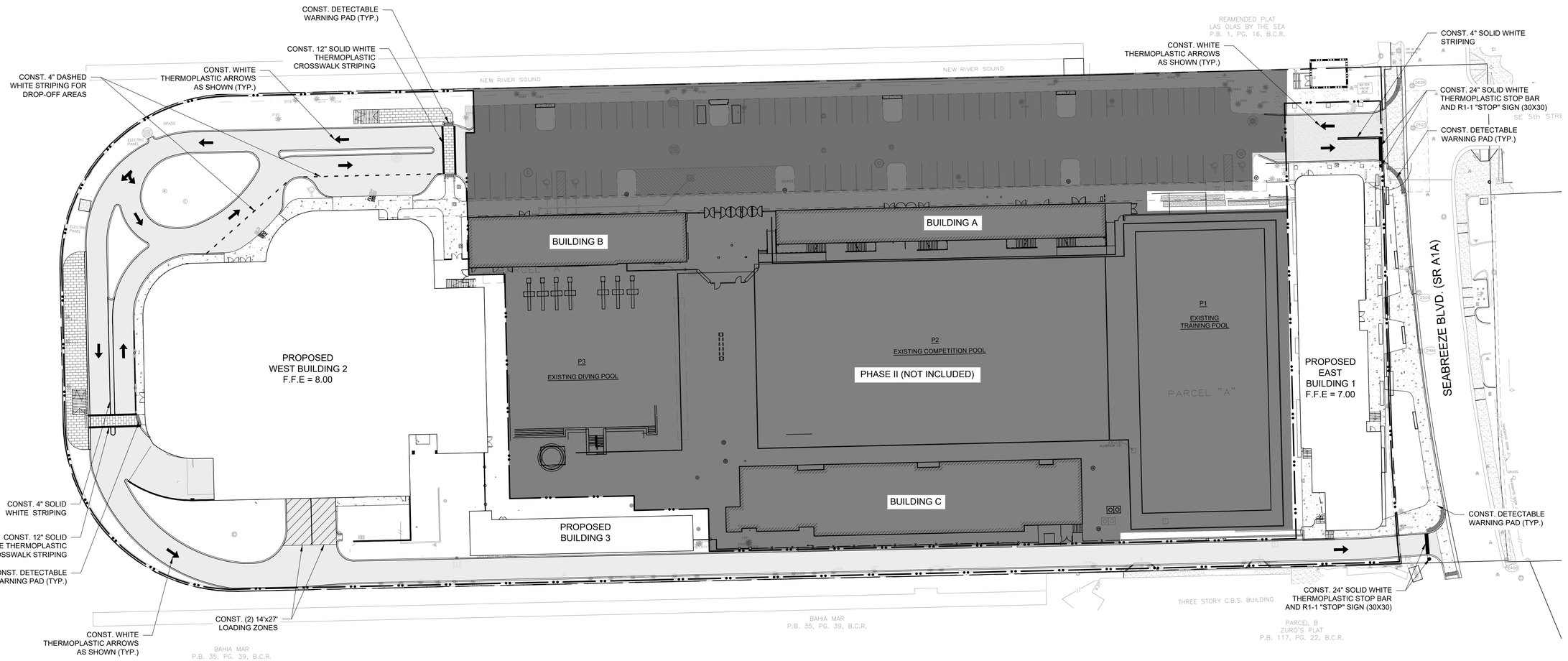
PRESS01

Drawing name: S:\11405.00 ISHOF Hensel Phelps\Engineering\Cadd\11405.00-CU-5XX.dwg Layout Name: WATER AND SEWER DETAILS-4 Plotted on: Jun 30, 2022 - 4:16pm Plotted by: mwnick

N

GRAPHIC SCALE
0 30 60
SCALE: 1" = 30 '

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.



06/16/2022 - 30% SET

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

DRAWN BY: NW/FA | DESIGNED BY: JW | CHECKED BY: TD | DATE: 04/19/2022 | SCALE: AS NOTED | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
PAVEMENT MARKING AND SIGNAGE PLAN
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. CM-101 | OF
TOTAL:
CAD FILE: 11405.00-CM-1XX
DRAWING FILE NO. TBD

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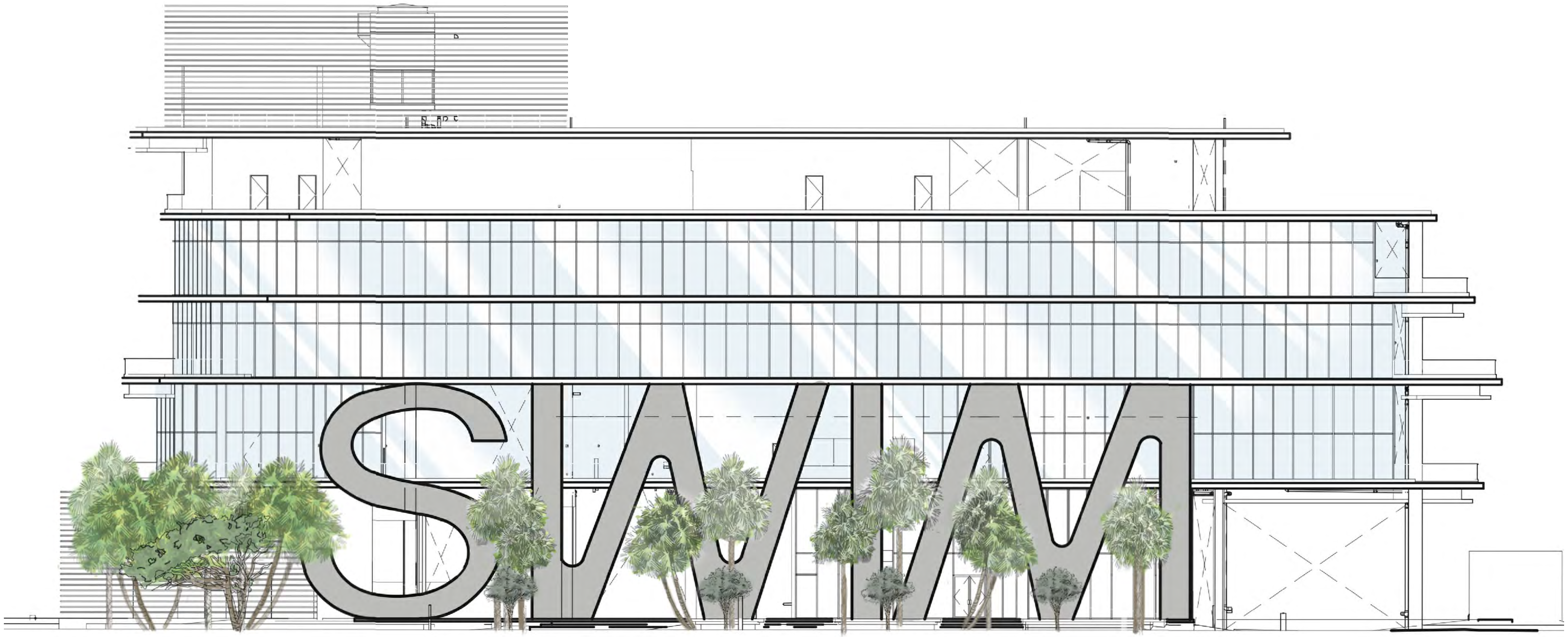
Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Engineering\Cadd\11405.00-CM-1XX.dwg Layout Name: PAVEMENT MARKING AND SIGNAGE PLAN Plotted on: Jun 30, 2022 - 4:17pm



01 BUILDING ELEVATION
ELEVATION

SCALE: 1"=10'

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: AS
DATE: 04/15/2022
DESIGNED BY: AS
SCALE: AS NOTED
CHECKED BY: KS, PW
FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
SITE ELEVATION
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. LC-101
OF
TOTAL:
CAD FILE: 11405.00-LC-101
DRAWING FILE NO. TBD

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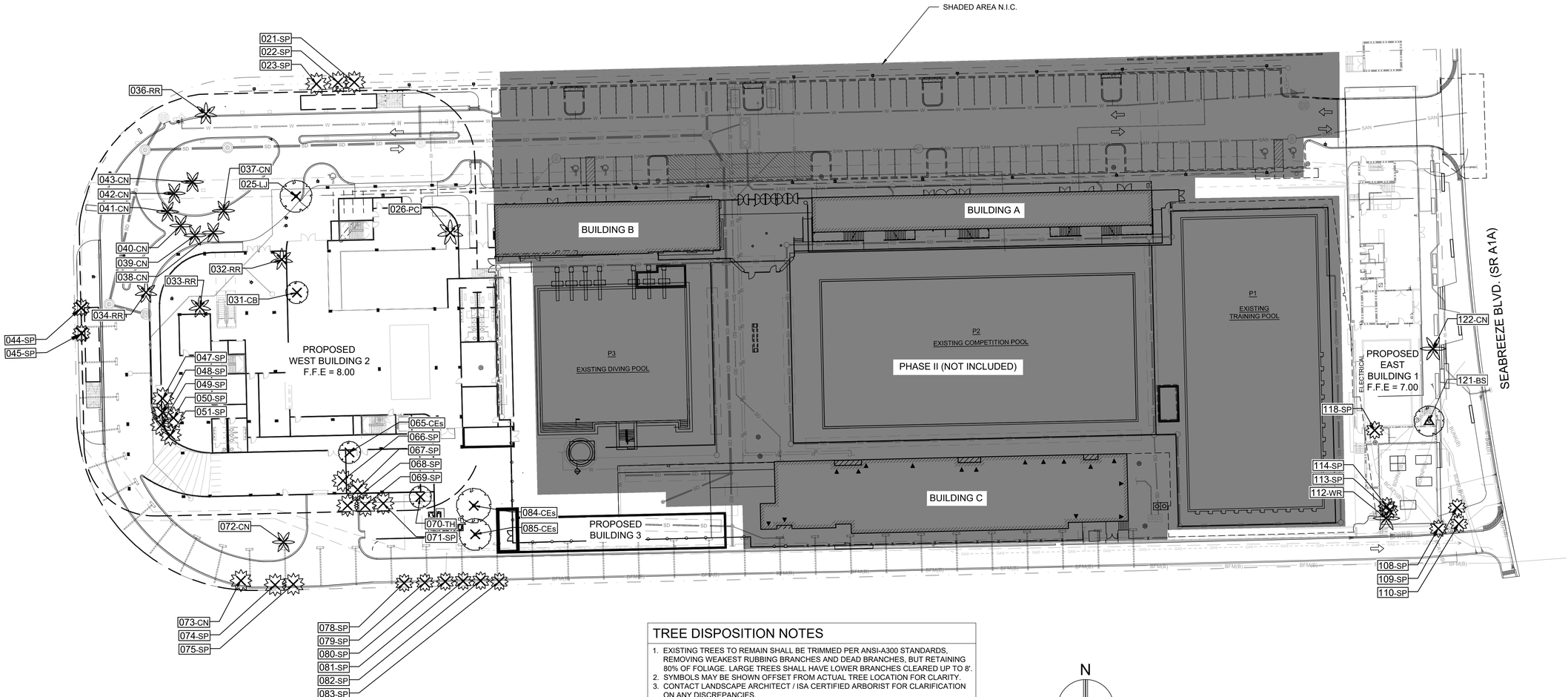
TREE DISPOSITION TABLE

PROJECT #: 11405.00 **PROJECT NAME: ISHOF**

TREE #	COMMON NAME	SCIENTIFIC NAME	DBH IN.	HT. FT.	CNPY. FT.	TREE % CONDITION	TREE DISPOSITION	TREE REPL (DBH)	TREE APPRAISAL	COMMENTS
021	CABBAGE PALM	"Sabal palmetto"		24' CT	12'	60%	REMOVE	1		Leaning, constriction
022	CABBAGE PALM	"Sabal palmetto"		18' CT	12'	70%	REMOVE	1		Constriction
023	CABBAGE PALM	"Sabal palmetto"		15' CT	12'	70%	REMOVE	1		
025	LIGUSTRUM	"Ligustrum japonicum"	9"	12'	15'	65%	REMOVE	9		Crossing branches, trunk damage. Gift from Hall of famer.
026	CANARY ISLAND DATE PALM	"Phoenix canariensis"		26' CT	12'	70%	REMOVE	1		Leaning
031	WHITE GEIGER	"Cordia boissieri"	4"	10'	12'	65%	REMOVE	4		Fungus, suckers, needs fungus treatment
032	ROYAL PALM	"Roystonia elata"		28' CT	15'	70%	REMOVE	1		
033	ROYAL PALM	"Roystonia elata"		28' CT	15'	70%	REMOVE	1		
034	ROYAL PALM	"Roystonia elata"		28' CT	15'	65%	REMOVE	1		
036	ROYAL PALM	"Roystonia elata"		28' CT	20'	80%	REMOVE	1		
037	COCONUT PALM	"Cocos nucifera"		16' CT	15'	70%	REMOVE	1		
038	COCONUT PALM	"Cocos nucifera"		17' CT	15'	70%	REMOVE	1		
039	COCONUT PALM	"Cocos nucifera"		15' CT	15'	70%	REMOVE	1		
040	COCONUT PALM	"Cocos nucifera"		18' CT	15'	70%	REMOVE	1		
041	COCONUT PALM	"Cocos nucifera"		15' CT	15'	70%	REMOVE	1		
042	COCONUT PALM	"Cocos nucifera"		15' CT	15'	70%	REMOVE	1		
043	COCONUT PALM	"Cocos nucifera"		16' CT	15'	70%	REMOVE	1		Curved
044	CABBAGE PALM	"Sabal palmetto"		15' CT	8'	45%	REMOVE	1		Constriction
045	CABBAGE PALM	"Sabal palmetto"		17' CT	10'	50%	REMOVE	1		
047	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	70%	REMOVE	1		Curved, constriction, leaning
048	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	70%	REMOVE	1		
049	CABBAGE PALM	"Sabal palmetto"		15' CT	12'	70%	REMOVE	1		
050	CABBAGE PALM	"Sabal palmetto"		15' CT	12'	70%	REMOVE	1		
051	CABBAGE PALM	"Sabal palmetto"		12' CT	12'	70%	REMOVE	1		
065	SILVER BUTTONWOOD	"Conocarpus erectus sericeous"	12"	18' CT	14'	65%	REMOVE	12		Leans, needs pruned
066	CABBAGE PALM	"Sabal palmetto"		20' CT	12'	70%	REMOVE	1		
067	CABBAGE PALM	"Sabal palmetto"		18' CT	12'	65%	REMOVE	1		
068	CABBAGE PALM	"Sabal palmetto"		18' CT	12'	70%	REMOVE	1		Bent
069	CABBAGE PALM	"Sabal palmetto"		20' CT	12'	75%	REMOVE	1		
070	PINK TAB	"Tabebuia heterophylla"	12"	20'	16'	70%	REMOVE	12		Constriction, die back
071	CABBAGE PALM	"Sabal palmetto"		20' CT	12'	65%	REMOVE	1		Constriction
072	COCONUT PALM	"Cocos nucifera"		32' CT	18'	70%	REMOVE	1		Pruned, branch damage
073	CABBAGE PALM	"Sabal palmetto"		18' CT	12'	75%	REMOVE	1		
074	CABBAGE PALM	"Sabal palmetto"		18' CT	12'	65%	REMOVE	1		
075	CABBAGE PALM	"Sabal palmetto"		15' CT	12'	70%	REMOVE	1		
078	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	70%	REMOVE	1		
079	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	75%	REMOVE	1		
080	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	75%	REMOVE	1		
081	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	75%	REMOVE	1		
082	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	70%	REMOVE	1		
083	CABBAGE PALM	"Sabal palmetto"		16' CT	12'	65%	REMOVE	1		Trunk damage
084	SILVER BUTTONWOOD	"Conocarpus erectus sericeous"	20"	25'	22'	70%	REMOVE	$1,470		Tw sted
085	SILVER BUTTONWOOD	"Conocarpus erectus sericeous"	17"	22'	20'	70%	REMOVE	17		
108	CABBAGE PALM	"Sabal palmetto"		18' CT	12'	70%	REMOVE	1		
109	CABBAGE PALM	"Sabal palmetto"		12' CT	12'	70%	REMOVE	1		
110	CABBAGE PALM	"Sabal palmetto"		13' CT	12'	65%	REMOVE	1		Thin
112	MEXICAN FAN PALM	"Washingtonia robusta"		10' CT	12	65%	REMOVE	1		
113	CABBAGE PALM	"Sabal palmetto"		14' CT	12'	65%	REMOVE	1		
114	CABBAGE PALM	"Sabal palmetto"		12' CT	12'	65%	REMOVE	1		Booted
118	CABBAGE PALM	"Sabal palmetto"		12' CT	12'	75%	REMOVE	1		
121	GUMBO LIMBO	"Bursera simaruba"	22"	20'	35'	75%	RELOCATE	$6,188		
122	COCONUT PALM	"Cocos nucifera"		32' CT	15'	60%	REMOVE	1		Constriction, thin

NOTES:
TREE NUMBERS KEPT CONSISTENT WITH PREVIOUS PHASE PLANS ("FLAC" KEITH #10210.00 & 10210.01.) FIELD VERIFY TREESMARKED ON THIS PLAN STILL EXIST ONSITE. NOTIFY LANDSCAPE ARCHITECT OF ANY DESCREPANCIES.

	54	TOTAL DBH **TO BE MITIGATED**
	45	TOTAL 8' PALMS **TO BE MITIGATED**
	$1,470	TOTAL SPECIMEN DOLLAR VALUE **TO BE PAID / MITIGATED**



TREE DISPOSITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TREE / PALM TO REMAIN (NO SYMBOL) TO BE PROTECTED DURING CONSTRUCTION
△	EXISTING TREE / PALM TO RELOCATE. REFER TO LANDSCAPE PLAN FOR NEW LOCATION
X	EXISTING TREE / PALM TO REMOVE. REMOVE ALL CAT 1 INVASIVE EXOTICS. (EX: BRAZ, PEPPER)
XXX-xx	EXISTING TREE / PALM NUMBER. REFER TO TREE DISPOSITION TABLE ON LD-101

TREE DISPOSITION NOTES

1. EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS, REMOVING WEAKEST RUBBING BRANCHES AND DEAD BRANCHES, BUT RETAINING 80% OF FOLIAGE. LARGE TREES SHALL HAVE LOWER BRANCHES CLEARED UP TO 8'.
2. SYMBOLS MAY BE SHOWN OFFSET FROM ACTUAL TREE LOCATION FOR CLARITY.
3. CONTACT LANDSCAPE ARCHITECT / ISA CERTIFIED ARBORIST FOR CLARIFICATION ON ANY DISCREPANCIES.
4. TRIMMING AND ANY NECESSARY ROOT PRUNING SHALL BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST.
5. ALL TREE WORK REQUIRE PERMITTING BY A REGISTERED COUNTY TREE TRIMMER.
6. BUBBLERS SHALL BE PROVIDED FOR ALL RELOCATED TREES AND PALMS.
7. REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL. CONFIRM WITH LOCAL GOVERNING AGENCY THAT TREES CLASSIFIED AS NUISANCE/EXOTIC INVASIVE MAY BE EXEMPT.
8. ALL TREES AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. REFER TO TREE PROTECTION DETAIL. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, ROOT ZONES AND GRADE.
9. ALL CATEGORY 1 EXOTIC/INVASIVE TREES TO BE REMOVED PER LOCAL ORDINANCE.

N

GRAPHIC SCALE
0 30 60
SCALE= 1" = 30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

DRAWN BY: AS | DESIGNED BY: AS | CHECKED BY: KS, PW | DATE: 04/15/2022 | SCALE: AS NOTED | FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
PRELIMINARY TREE DISPOSITION PLAN
501 SEABREEZE BLVD., FT. LAUD., FL.33316

06/16/2022 - 30% SET

SHEET NO. LD-101 | OF
TOTAL:
CAD FILE: 11405.00-LD-101
DRAWING FILE NO. TBD

S:\11405.00 - ISHOF -HENSEL PHELPS\LANDSCAPE ARCHITECTURE\CAD\11405.00-LD-101.DWG

Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Landscape Architecture\CAD\11405.00-LD-101.dwg Layout Name: LD-101 Plotted by: Alexander Plotted on: Jun 30, 2022 - 2:02pm

A. SCOPE

1. The location of plants, as shown on the plans, is approximate. The final locations may be adjusted slightly to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed or approved by the Landscape Architect / owner in writing. All other location adjustments to the layout are to be approved in advance in writing by the Landscape Architect and owner.
2. Contractor understands that an important element of the design of this project is meeting landscape ordinances with a design flare that includes symmetry, alignment, focal points and / or smooth curvilinear forms where applied and contractor shall follow and instruct the working crews accordingly. In the event of any doubt as to how to execute the plans, Contractor shall immediately consult with Architect and/or Owner.
3. Landscape Contractor shall fine grade, prepare site as outlined in the following notes and per plans; furnish and install all plants, shrubs, trees and / or palms meeting minimum requirements and brace them per details provided. Furnish and install soil, gravel, boulders, sod and mulch as specified in plans and notes below.
4. Landscape contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, planting soil, fertilizer, herbicide, pre-emergence herbicide, seed, and mulch.

B. BIDDING

1. Contractor to have liability insurance including Owner and Landscaper as insured's in excess of $10,000 as well as Worker's Compensation.
2. Contractors and Subs must ensure they are doing take offs from Bldg Dept.. Revised sets and / or Bid Set documents. Verify with this Office that you are bidding from latest available plans.
3. Read ALL notes and typical planting details sheets prior to submitting RFIs and prior to bidding.
4. When submitting an RFI reference sheet number, detail number and/or note category and number.
5. Landscape contractor shall verify all estimated quantities of material shown on the drawings prior to submitting their bid. Plant list pricing (if shown) is for permitting / mitigation comparison purposes only, any prices shown are to be disregarded by Landscape Contractor.
6. All Plant Material shall meet or exceed height and spread requirement. Heights are local code requirement and / or design intent related and always governs over container size. Container size given for reference only and must be sized-up to meet height requirements of plant list. Plant material available with excessive height beyond specifications must be consulted with Landscape Architect for design intent.
7. All landscape material was confirmed to be available at time of design. Landscape contractor understands that some material may not be available locally, however is available in Tri-County Region. Plant material supply is the responsibility of the Landscape Contractor that is awarded the contract and he/she shall take steps to ensure availability at the time of installation. Bring to the attention of Landscape Architect if specific material is no longer available at the time of bidding and / or prior to actual construction. Substitutions must be approved prior to construction.
8. Pre-inspections of site required prior to bidding.
9. The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plan and the quantities on the plant list shall be brought to the attention of the Landscape Architect for clarification.
10. All labor and material for soil amendments and fertilizer that is required to ensure the successful establishment and survival of the proposed vegetation, as well as all the cost for the removal of unsuitable or excess backfill material from plant beds, in addition to fine grading and mulching all plant beds and individual trees shall be included in the contractor's bid to perform the work represented in this plan set.
11. Bid shall be itemized for possible value engineering.
12. Sod and Rocks (if specified) shall be estimated by scaling plans. Include price per square foot for sod. Rocks (include price per ton). Small rocks and gravel beds shall have landscape fabric material and minimum 4" depth. Boulders to be bid by unit.
13. All S.F. if noted is approximate and shall not be considered all inclusive; it is the contractor's responsibility to do his or her take off, submit price per S.F. and in the end, sod all areas that are not covered either by plants, mulch and/or rocks. It shall be the responsibility of the contractor to include in the bid, the repair of any existing sod which may be damaged during construction.
14. Final payment to the Contractor shall be for actual plants installed on the project.
15. Contractor shall be responsible for obtaining and paying for costs of all permits described in bid whether permit costs are reimbursable by owner or included in bid. Research permit status and research all permits and additional documentation and certifications required such as separate tree removal permit for example, and consider prior to bidding.
16. General / Landscape Contractor shall leave a 5% unforeseen conditions allowance such as for additional root barriers determined to be needed on site and as job progresses.
17. Refer to Section T, Watering, for supplemental watering requirement.
18. Landscape contractor is responsible for verifying all plant quantities prior to bidding and within 7 calendar days of receipt of these plans shall notify the landscape architect in writing of any and all discrepancies. In case of discrepancies, planting plans shall take precedence over plant list. No substitutions are to be made without prior consent of the Landscape Architect.

C. GENERAL LANDSCAPE NOTES

1. Plants grown in containers prior to installation shall be removed from their containers before they are planted in the ground and have circling roots removed. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust spacing as necessary and/or provide additional plants to provide an adequate screen as required by code. Leave access to utility or clearance as required.
2. All landscaping shall be installed according to sound nursery practices. Contractor shall comply with federal, state and local laws and regulations pertaining to the inspection for plant disease and insect infestation.
3. All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Keith and Associates and may not be duplicated without authorization or used for other projects than the intended.
4. The Landscape Contractor shall exercise caution to protect any existing sod, electrical and irrigation. Any damage to the sod, electrical or irrigation shall be replaced or repaired to the original state by the Landscape Contractor at no additional cost to the owner.
5. Tree, palm, accent shrubs and bed lines are to be located in the field and approved by the Landscape Architect / owner prior to planting. Landscape Contractor acknowledges that material planted without approval of location may be subject to relocation by Landscape Architect to maintain design intent if not followed properly.
6. All trees must be pruned as per Landscape Architect's direction.
7. In areas where asphalt is removed in order to receive landscape material, the lime rock sub-base material must also be removed and replaced with approved planting soil mix.
8. Landscape contractor is responsible for sending photographs to the landscape architect to pre-approve all trees, palms, and shrubs prior to delivery to project site.
9. Landscape contractor shall coordinate his or her work with that of the irrigation, landscape lighting, and hardscape contractor if different.
10. The landscape contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape contractor shall wait 7 days after pre-emergence treatment prior to planting.

D. PERMITS & REGULATIONS

1. Contractor(s) must obtain separate landscape, irrigation and tree relocation/removal permits from the governing authority prior to the issuance of the first building permit for the project.
2. Landscape contractor to call the local Landscape Inspector to schedule a pre-construction meeting prior to installation if required.
3. All mandatory requirements by local Landscape Departments and their inspectors shall govern and landscape contractor commits by accepting contract to comply promptly for builder/owner to obtain C.O.

E. TREE REMOVAL

1. Removal of any trees or palms will require a written "tree removal permit" from the local governing agency prior to removal. Non-native trees classified as "prohibited" trees may be exempt from the permit if listed as Category 1 by Florida Exotic Pest Plant Council. Confirm with Local Municipality.
2. Landscape Contractor is responsible to remove ALL invasive nuisance trees such as Brazilian Pepper, Melaleuca, Australian Pine and all invasive trees as categorized by the governing agencies, whether listed on plans or not.
3. The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on the tree/palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing unwanted trees, palms, shrubs, ground covers, sod and weeds within landscape areas.

F. EXISTING TREES

1. Existing trees designated to remain shall be protected during all construction phases. Any trees or shrubs designated to remain that are scarred or destroyed will be replaced at the contractor's expense, per the appraised value.
2. Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of new planting installation by the Landscape Architect. Trees and plant material indicated to be relocated with no new location provided in plans shall be moved to a location on site designated as a nursery holding area with the root ball protected from direct sunlight, maintained and irrigated until new location is determined.
3. Prune trees to remove damaged branches and improve natural shape and thin out structure. Do not remove more than 15% of branches. Do not prune back terminal leader.
4. Prune existing shrubs to remove damaged branches and improve natural shape.
5. Existing trees to remain shall be trimmed per Ansi-A300 standards. Supervision of the trimming shall be performed by an ISA Certified Arborist to ensure quality work.
6. All existing trees shall be "lifted and thinned" to provide an 8' minimum clearance for sidewalks and pedestrian walkways and a 14' minimum clearance for roadways, driveways and all vehicular use areas.
7. Selective canopy and root pruning of existing trees can be conducted (only as necessary and in no event more than 35%) to accommodate for new approved construction. Pruning shall be conducted / supervised by an ISA Arborist.
8. If plans call for relocation of trees, palms or plants. High level of care should be exercised to assure that they are not damaged in the process and that they are promptly replanted upon being dug up.
9. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree.
10. Erosion control devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion within the tree protection zone.
11. Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root pruning equipment.

G. TREE RELOCATION (These notes for relocation trees only and if applicable)

1. Flag all trees and palms to be transplanted with differentiating color than those to be saved or removed.
2. Tree Relocation process must be performed or supervised by ISA Certified Arborist.
3. Water the root zones to field capacity for 5 continuous days before root pruning. At a minimum soak the soil to a 4'-0" depth within a 6' radius.
   Root prune a minimum of six weeks before relocation. Prune away all dead or damaged limbs or fronds. For trees, prune out 1/3 of the existing canopy by selectively trimming small internal branches. For palms, gather fronds above the bud and tie them loosely with jute twine to avoid damage.
4. Brace root pruned trees awaiting relocation.
5. Root prune $\frac{1}{2}$rd of the root system, irrigate daily for 2 weeks then root prune another $\frac{1}{2}$ rd, irrigate daily and prune last $\frac{1}{2}$ rd on actual relocation date, no less than two weeks (six weeks total minimum root pruning by stages). ISA Arborist on staff shall observe for intense shock. Canopy pruning may be deemed necessary by Arborist on staff to balance for intense root ball loss, canopy shall be trimmed only as necessary to increase survival.
6. Root prune with proper clean equipment to sever roots. Ensure roots are not torn or pulled apart.
7. With hand tools, dig a 2'-0" wide by 3'-0" deep trench at a minimum distance as determined by the consulting arborist to expose roots. Cut all roots 1.5" and larger in diameter with a clean, sharp pruning saw. Treat all cuts with a fungicidal barrier. Backfill the trench, within 4 hours of digging, with a 1:1 mixture of site soil and sawdust or other fine organic material. Do not compact.
8. Form a rootball size in compliance with Florida grades and Florida standards number 1 or better.
9. Maintain the soil moisture at field capacity throughout the six weeks.
10. Allow the plant to regenerate roots over a period of six weeks.
11. At the end of six weeks, prepare the planting pit at the new location. Overdig the hole diameter a minimum of 2' beyond the root ball, with the recipient hole to be at least 1/3 larger than the area that was trenched for transplanting.
12. With the consulting arborist present, undercut the entire root ball of the plants to be transplanted at a depth specified by the arborist. The undercutting method may be a choker cable drawn through the root ball with heavy equipment.
13. At the direction of a professional rigger, assemble slings, padding, guiding ropes and cables for attachment to the crane or backhoe. The professional rigger shall determine the size of machinery necessary to execute the lifting and moving operation.
14. Install trees within 24 hours of removal from their original location to locations provided by Landscape Architect or Developer with approval of municipal / Landscape Inspector.
15. Recipient site to be within 4" of finished grade. Tree pit excavation to mathch the size of root ball. Top of root ball to match the finished grade
16. Maintain trees in a healthy and vigorous condition during installation and throughout the plant establishment period. Replace trees that do not meet this requirement with the same species, size, and quality or per mitigation requirements specific to the governing authority with jurisdiction.
17. Fertilize the plant as directed by the consulting arborist.
18. When the plant is placed in the new location, backfill the planting pit with topsoil and water thoroughly to eliminate air pockets and compact the soil. Set the tree no deeper than its original condition.
19. Cover the root ball area with 3" depth of organic mulch.
20. Provide fungicide and fertility applications at the direction of the consulting arborist.
21. Post transplant watering to provide moisture and reduce any excessive stress due to root desiccation. Watering to be adjusted according to conditions and at the supervision and direction of the ISA certified arborist.
22. The diameter of the root--pruning or transplanting circle shall be at a distance away from the trunk equal to 12 times each inch of trunk diameter at breast height.
23. For all palms except Sabal palmetto, the lower fronds shall be pruned leaving 9-11 fronds that can be tied without an extensive amount of weight that may damage the heart of the palm. The Sabal palmetto shall have all fronds cut without damaging the bud.
24. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location.
25. The landscape Contractor is to verify that all new holes have appropriate percolation.
26. Over the guarantee period the Landscape contractor shall be responsible for resetting any trees or palms that are not in a vertical position.
27. After transplanting trees and palms, the landscape contractor shall be responsible for obtaining water and watering to maintain soil moisture during the guarantee period at a minimum of: First month- daily, Second month - three times per week, Third and Fourth months - two times per week, Last eight months - one time per week.

H. SITE PREPARATION & GRADING

1. Landscape contractor shall loosen and till compacted soils that are overly compacted in all planting areas of the project to provide for proper soil aeration for plant establishment.
2. Planted areas shall be cleared of underground rocks, construction debris and other materials detrimental to the health of the plants. Lime rock base material shall be removed within planting pits and adjacent to pavement. The planting areas should be clean to a depth equal to the root ball of the trees/palms proposed for the area. Planting area soils shall be tested for ph before planting. Soils showing high (alkaline) ph (over 7.5) shall be amended or replaced with native soil having a ph range of 6.5 - 7.5, as approved by Landscape Architect.
3. All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
4. Landscape Contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape Contractor shall wait (7) seven days after pre-emergence treatment prior to planting.
5. Site preparation shall include the eradication and removal of any weeds, clean-up of any dead material, debris, and rubbish.
6. General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading shall be provided by the Landscape Contractor. All planting beds shall be free of all rocks 1/2" or larger, sticks, and objectionable material including weeds and weed seeds. All lime rock shall be removed/cleaned down to the native soils.
7. The Landscape contractor shall ensure the planting areas are at finish grade prior to installing plant materials.
8. All trees and plant material to remain shall be protected during construction. Contractor shall install protective barriers such as "Tenax" orange safety fencing or similar, to be installed before the beginning of the project. Barriers shall be located to include the drip line of the trees, palms and plant material. The contractor shall take extra caution to prevent any damage to the trunk, root zones and grade.
9. Final grade within planting areas to be 4" below adjacent paved areas or top of curb. Sod areas to be 2" below.
10. All planting beds shall be shaped and sloped to provide proper drainage away from building and structures and to swales, if applicable.

I. IRRIGATION

1. Any Irrigation Notes and specifications included in Irrigation Sheets govern over the following Irrigation Notes.
2. The Landscape Contractor shall coordinate with the irrigation contractor if not the same and leave provisions for all individual trees in turf areas and all planting beds.
3. Irrigation / Landscape contractor to guarantee 100% coverage and 50% overlap (head to head coverage) to all landscaped areas and furnish and install a rain sensor.
4. Irrigation Contractor to adapt design to onsite conditions adjusting heads and changing nozzles as required to avoid overspray onto buildings or paved areas.
5. The contractor shall ensure that the irrigation system is operational and free of leaks prior to any planting being finalized. Plant material that is installed prior to the irrigation system being operational shall be watered by the contractor at his or her expense. Water for plant establishment should be included in the cost of the plant.
6. All guidelines as outlined by the South Florida Water Management District (SFWMD) or water management district with jurisdiction shall be strictly adhered to.
7. Irrigation water whether pumped from a lake or a well shall be treated for algae, rust, etc. to provide clean treated irrigation water that will not clog or stain property or components.
8. Any existing irrigation system shall be retrofitted to comply with the specifications as outlined above.

J. HARDSCAPE & OTHER MATERIALS

1. Face of trees and palms to be located a minimum of 2' setback from all fences, walkways, walls, and paved surfaces, unless otherwise indicated on the plans. Refer to details.

K. UTILITIES / CLEARANCES

1. The contractor shall be responsible for determining the location of and avoid and protect utility lines, buried cables, and other utilities. The owner or Landscape Architect shall not be responsible for damage to utility or irrigation lines.
2. Trees shall be placed a minimum of 5 ft. from underground utilities, unless otherwise approved in writing by Landscape Architect and Owner.
3. All canopy trees to be planted min. of 15' from light source/poles. Unless otherwise approved by the governing authority / Landscape Architect and Owner.
4. Landscape contractor shall contact the county, governing authority and/or utility companies to locate all underground utilities or structures prior to digging. Landscape contractor shall repair all damage to underground utilities, and/or construction caused by utility damage, at no cost to the owner.
5. All plant material symbols shown on landscape plan shall be considered diagrammatic and should be adjusted in the field by contractor to avoid all utilities, and all other obstructions.
6. If/ When digging in right of way needed: Two (2) full business days before digging, call toll free 1-800-432-4770, or 811, Sunshine State One Call of Florida, inc. Notification Center. In addition, call the Governing Agency's Utilities/Public Works Department. Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the start of work operations.
7. Above and below ground utilities shall be verified and located in the field by the contractor prior to commencing work in the project area. The contractor shall examine available utility plans and confirm conflicts between indicated or located utilities and landscape work. The contractor shall then notify the Project Engineer of said conflicts and the Engineer will coordinate any necessary adjustments with the utility provider. Tree locations will be adjusted as necessary when in conflict with existing utilities.
8. The final plant locations may be adjusted, as approved / directed by the Landscape Architect in writing, to accommodate utilities compliance. Excavations within 5' of known utilities should be done by hand.
9. Contractor shall familiarize himself with the location of and avoid and protect utility lines, buried cables, and all other utilities, noted or not, on plans.
10. Leave clearance and access to all above ground or at grade meters and equipment.
11. Landscape planting shall be in conformance with FPL guidelines for setbacks from overhead utility lines.
12. Landscaping shall not interfere with light poles, fire hydrants, electrical/mechanical equipment access, signs, drainage structures, etc. Bring to the attention of Landscape Architect any conflicts.

L. ROOT BARRIERS

1. Root barriers will be installed to protect building foundations, curbing, walkways, paved areas, roadway base material and utilities from existing large trees or proposed new trees that are within 5' of existing or new approved construction or as may be deemed necessary as job progresses.
2. Mechanical Root barriers will be used for large existing Canopy Trees and chemical type barriers will be used for new trees.
3. Mechanical Root barriers will be "DeepRoot" and Chemical Root barriers will be "Biobarrier". Substitutions must be of approved equal or better quality.
4. Root barriers will be installed per manufacturer specifications.
5. Root barrier depths will be determined by the manufacturer recommended depth chart and as required by on-site conditions in a case by case basis as deemed necessary by Landscape Architect Architect / ISA Arborist and Landscape Inspector.

M. LANDSCAPE BACKFILL & SOIL AMENDMENT

1. All building construction material and foreign material shall be removed from the planting areas and replaced with 70/30 mix (70% sand / 30% organic compost) or amend existing soils per section H.2.
2. Planting soil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all trees and shrubs, the top 6" of all shrubs and ground cover beds and top 2" of all grassed areas. This soil shall be tilled into the existing soil after the existing soil has been cleaned of all undesirable foreign materials. Recycled compost is encouraged as a soil amendment alternative. Planting soil to be weed free.
3. Planting backfill for palms shall be clean coarse native sand unless specified elsewhere.
4. Do not allow air pockets to form when backfilling. All trees shall be watered-in utilizing water probe or a tree bar.

N. PLANT SIZE & QUALITY

1. All plant material must meet or exceed the minimum size requirements as specified on the plant list. Height specification governs over container size if both specifications given cannot be met. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance.
2. Material specified as Balled and Burlapped (B&B) can be accepted in container if not available as B&B at the discretion of Landscape Architect; if so, root bound and/or circling roots shall be removed and root ball must be proportionate to Tree / Palm.
3. U.O.N, All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper structural branching and even branch distribution. Trunks on palms shall be uniform in thickness for the entire length of the palm and shall not taper off to disproportionate thinness towards the crown. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.
4. Use nursery grown plant materials that complies with all required inspection, grading standards, and plant regulations in accordance with the latest edition of Florida Department of Agriculture, "Grade & Standards for Nursery Plants".
5. All trees and palms shall be free of open wounds and unsightly visible scars.
6. All substitutions must be approved by the governing authority if it is required Canopy and by Landscape Architect / Owner if supplementary accent material.
7. Contractor shall comply with Federal, State, and Local laws and regulations pertaining to the inspection for plant disease and insect infestation.
8. Trees, palms, shrubs, ground covers:
   Plant species and sizes shall conform to those indicated on the drawings. All nursery stock shall be in accordance with grades and standards for nursery plants parts 1 and 2, latest edition published by the Florida Department of Agriculture and Consumer Services, unless specified otherwise. All plants shall be Florida grade number 1 or better as determined by the Florida Division of Plant Industry and tightly knit plant, so trained or favored in its development that first appearance is unquestionable and it is outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be freshly dug, sound, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate root systems. Trees and palms shall be uniform in size and shape. All materials shall be subject to approval by the Landscape architect. Plants shall be pruned prior to delivery only upon the approval of the Landscape Architect.
9. All container grown material shall be healthy, vigorous, well-rooted plants and established in the container in which they are sold. The plants shall have tops of good quality and be in a healthy growing condition. An established container grown plant shall be transplanted into a container and grown in that container sufficiently long enough for the new fibrous roots to have developed so that the root mass will retain its shape and hold together when removed from the container.
10. Field grown trees and palms previously root pruned shall obtain a root ball with sufficient roots for continued growth without resulting shock.
11. Root suckers on any tree are not acceptable and must be properly pruned.
12. Contractor shall coordinate with Landscape Architect and Owner to obtain prior approval for the selection of the specific specimens of all palms and any trees of more than six feet in height. Contractor to supply photograph of trees prior to purchase and installation.

O. PLANTING NOTES

1. At the discretion of the Landscape Architect, plants are subject to review for approval for size, variety, condition and appropriateness to the design intent.
2. All synthetic burlap, synthetic string or cords, or wire baskets shall be removed before any trees are planted. All synthetic tape (i.e. tagging tape, nursery tape) shall be removed from trunks, branches, etc. before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before the trees are back filled.
3. All "groundcover" requires 75% coverage and 100% within 3 months of installation. Bring to the attention of Landscape Architect in writing before commencing if this is not achievable with the design.
4. Set tree no deeper than it was in its original growing condition with the top of the root ball even with, or slightly higher (+/- 1") than the finished grade.
5. All trees/palms shall be planted so the top of the root ball, root flair are slightly above final grade. Shrub material shall be planted such that the top of the plant ball is flush with the surrounding grade.
6. All trees and palms shall be braced / staked per accepted standards by the Florida Nursery, Growers & Landscape Association (FNGLA). Nailing into trees and palms for any reason is prohibited and the material will be rejected. Please refer to the planting details.
7. All trees, new or relocated, to be staked and guyed as detailed.
8. Layout shrubs to create a continuous smooth front line and fill in behind with triangular spacing.
9. Excavate pit or trench to 1-1/2 times the diameter of the balls or containers or 1' wider than the spread of roots and 3" deeper than required for positioning at proper height . Compact a layer of topsoil in bottom before placing plants. Backfill around plants with planting mixture, compacted to eliminate voids and air pockets. Form grade slightly dished and bermed at edges of excavation. Apply 3" of mulch.
10. Groundcover and shrubs to be spaced in a uniform and consistent pattern per planting details.
11. All mechanical equipment, irrigation pumps, FPL transformers, pool pumps, etc. shall be screened on a minimum of three sides by landscape shrubs.
12. Contractor shall not mark or scar trunks in any fashion.
13. When requested by Landscape Architect, demonstration of healthy root system if not previously approved, can include tree removal and re-installation for inspection at no additional cost to the owner.
14. Remove rejected Plant material from the Site immediately and replace with acceptable plants.

P. FERTILIZATION

1. All Fertilization shall comply with state fertilization laws. Fertilization shall be Agriform "20-10-5 Plus minors" or similar approved slow-release tablets applied per manufacturer suggested application rate chart:

Agriform® 21-gm Tablets (SKU# 90026*; 500 tablets/case)

	NEW Tree / Shrub Container Size						
	1 Gal	2 Gal	3 Gal	5 Gal	7 Gal	15 Gal	24" Box
Installation:	1	1 to 2	2 to 3	2 to 3	3 to 5	7 to 10	15 to 24

- Place plant in the hole and backfill to halfway point.
- Do not place tablets in the bottom of the planting hole.
- Place Agriform Tablets in the hole about 1to 2 inches away from root tips.
- Finish filling the hole around the plant to grade level.

SCOTTS: 1-800-492-8255 or visit www.scottspro.com

Q. SOD

1. All areas disturbed during construction shall be sodded with St. Augustine 'Seville' unless otherwise noted. These disturbed areas shall have proper irrigation established or re-established if they were disrupted or non-functional.
   Landscape Contractor to supply and install 2" soil layer 50/50 mix blanket for all new sod areas.
2. All open areas not covered by trees, palms, shrubs, vines, ground covers or existing sod in good condition to remain, shall receive Stenotaphrum Secundatum, St. Augustine 'Seville' sod, whether labeled on the plans or not, unless a different species is indicated on the planting plan. Sod shall be strongly rooted, free from weed, fungus, insects and disease. Contractor shall be paid by the total sodded area x the unit price submitted (field verified).
3. Sod shall be machine stripped no more than 24 hours prior to laying.
4. Lay sod strips with tight joints, do not overlap, stagger strips to offset joints in adjacent courses. Work sifted soil mix into minor cracks between pieces of sod and remove excess soil deposits from sodded areas. Sod on slopes greater than 3:1 shall be immediately staked after planting.

R. SUBMITTALS

1. Submit 1 gallon container of all planting media for landscape architect review. Samples to include specified planting mix, topsoil, container planting mix (if applicable) and mulch.
2. Submit representative nursery photos of all Trees and Palms for review prior to delivery to the site. Include scale for height.
3. Submit representative nursery photos of all shrub and groundcover material for review prior to delivery to the site.

S. INSPECTION & ACCEPTANCE

1. Notify the governing Agency if required and Landscape Architect of commencement.
2. Onsite plant deliveries shall occur on Monday through Friday only unless otherwise directed by the Landscape Architect / Owner. The contractor shall ensure that plant material is delivered undamaged from transportation or digging operations. The Landscape Architect may reject material that has been damaged or rendered unacceptable due to relocation or transportation from the point of origin. All plant material shall be available for inspection and approval by the Landscape Architect prior to final installation.
3. There shall be one final inspection for approval by each of the presiding governing agency, Landscape Architect and owner. Contractor shall ensure that the plans, details, specifications and notes have been adhered to and that the landscape and irrigation installation is compliant to all items as directed on the plans prior to scheduling of the final inspection.
4. Upon completion of the work, the Landscape Contractor shall notify the Landscape Architect and request a final inspection. Any items that are judged incomplete or unacceptable by the Landscape Architect or owner shall be promptly corrected by the Landscape Contractor.
5. No substitution of plant material, type or sizes will be permitted without prior written authorization from the Landscape Architect and owner.
6. To obtain final payment, Contractor must provide release of all mechanic's liens and material liens.

T. MULCH

1. All planting beds shall be mulched to a depth of 3" with an organic mulch approved by Landscape Architect. No heavy metals, such as arsenic, etc. are to be contained in the mulch. The contractor shall provide certification if requested or proof that all mulch is free of heavy metals or similar environmental contaminants.
2. Shredded approved organic mulch to be used beyond trunk in all directions and throughout all hedges and plant material.
3. All trees in sodded areas shall have a clean cut 4' diameter mulch ring.
4. Preferred mulch is shredded melaleuca. Cypress, red, gold and green mulch is prohibited.
5. All mulch shall have a minimum 3" separation from the trunk of the tree/palm trunk to avoid rotting.

U. WATERING

1. All plant material shall be watered in thoroughly at the time of planting.
2. It is the sole responsibility of the Landscape Contractor to ensure that all new plantings receive adequate water during the installation and until completion of contract. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to ensure proper plant establishment and development and shall be provided by Contractor as a part of this contract.

V. CLEAN UP

1. The Landscape Contractor is responsible for maintaining all landscape planting areas until final acceptance of the owner.
2. The contractor is responsible for mowing the entire project during planting and establishment periods, based on mowing project once a month from October to April, and twice a month from April to October (During installation and plant establishment only and until final inspection and owner accepts and takes ownership).
3. Any excess soil, undesired stones or debris resulting from landscape operations shall be removed promptly, keeping the site clean as work progresses.
4. The Landscape Contractor shall at all times keep the premises free from accumulation of waste material or debris caused by their crews during the performance of the work. Upon completion of the work, the contractor shall promptly remove all waste materials, debris, unused plant material, empty plant containers, and all equipment from the project site.

W. MAINTENANCE

1. Landscape Contractor to return to job site 12 months after tree bracing and remove all tree braces. Owner may choose to retain 5% of payment to ensure compliance.
2. The Landscape Contractor shall water, mulch, weed, prune, and otherwise maintain all plants, including sod, until completion of contract or acceptance by landscape architect. Settled plants shall be reset to proper grade, planting saucers restored, and defective work corrected.
3. Trees and shrubs shall be maintained to keep clearance of stop signs and safety clearance for visibility at traffic intersection.

X. GUARANTEE & REPLACEMENT

1. By accepting the contract, the Contractor is thereby guaranteeing all plant materials and design for a period of not less than one (1) year from the time of final acceptance by the owner. Contractor shall replace any plants which die or wither within such period with healthy plants that meet specifications of the same species and size without additional cost to the owner unless such death or withering is due to Owner's failure to do ordinary maintenance on such plants after final acceptance in accordance with any maintenance instructions given by Landscape Architect for such plants. Such replacement shall include all plants and labor to plant the replacement plants. Any plant materials damaged by lightning, storms, freeze damage or other "acts of God" as well plants damaged by vehicles, vandalism or neglect are not included in this replacement agreement. If requested, the Landscape Architect may act as a mediator between owner and Landscape Contractor on a time material basis. "Plants" includes all trees, palms, shrubs, grass and other plants provided or planted by Contractor.

Y. MISCELLANEOUS.

1. All work to be done in a professional manner.
2. No change order shall be valid, due or paid unless it is approved by Owner in writing in advance.
3. These notes shall be an integral part of the contract of Contractor and shall be deemed incorporated therein by reference. In the event of a conflict among the terms among the plans and these notes, the terms of this document shall control.

Z. ABBREVIATIONS IN NOTES AND PLANS

UNO = Unless Otherwise Noted
L.A = Landscape Architect
S.F. = Square Feet
STD = Standard (single trunk)
B&B = Balled and Burlapped
BLDG DEP = Building Department
RFI = Request for Information
FPL= Florida Power & Light
C.O. = Certificate of Occupancy
ISA CA or ISA Arborist = International Society of Arboriculture Certified Arborist

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: AS | DATE: 04/15/2022
DESIGNED BY: AS | SCALE: AS NOTED
CHECKED BY: KS, PW
FIELD BOOK:

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
LANDSCAPE NOTES
501 SEABREEZE BLVD., FT. LAUD., FL.33316

06/16/2022 - 30% SET

SHEET NO. LP-001 | OF
TOTAL:
CAD FILE: 11405.00-LP-001
DRAWING FILE NO. TBD

S:\11405.00 - ISHOF -HENSEL PHELPS\LANDSCAPE ARCHITECTURE\CAD\11405.00-LP-001.DWG

Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Landscape Architecture\CAD\11405.00-LP-001.dwg Layer Name: LP-001 Plotted by: fraustino Plotted on: Jun 30, 2022 - 1:54pm

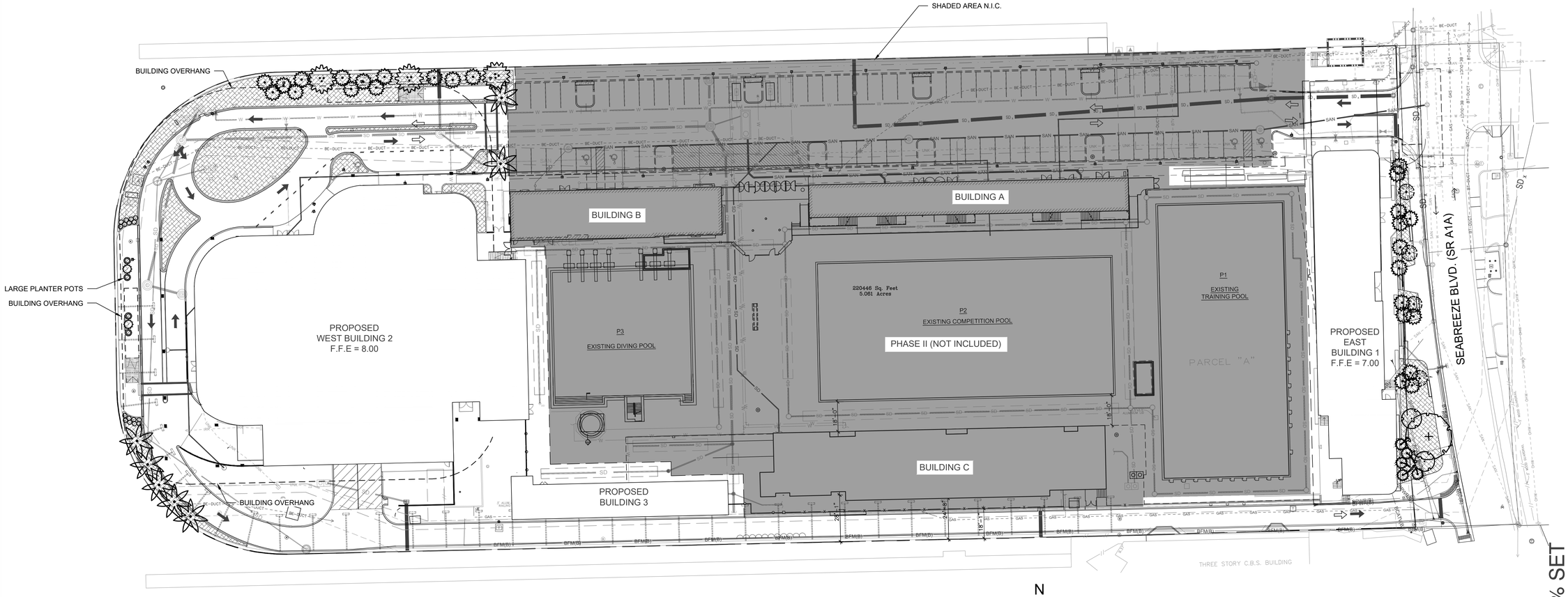
PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	SIZE	NATIVE/ DROUGHT	REMARKS
BS	2	BURSERA SIMARUBA GUMBO LIMBO	18` HT X 7` SPRD, 4" DBH	N**	CHARACTER BRANCHING
CS	4	CONOCARPUS ERECTUS `SERICEUS` SILVER BUTTONWOOD	10` HT X 4` SPRD, 1.5" MIN. DBH, FULL CANOPY	*	MULTI-TRUNK
PALMS	QTY	BOTANICAL / COMMON NAME	SIZE	NATIVE/ DROUGHT	REMARKS
CN	7	COCOS NUCIFERA `GREEN MALAYAN` COCONUT PALM	12`, 16`, 20` CT, STAGGERED, HT & ANGLE PER PLAN	N**	CURVED TRUNK
SP	26	SABAL PALMETTO CABBAGE PALMETTO	12`, 14`, 16` CT, BOOTED, STAGGERED PER PLAN	N**	
SP2	5	SABAL PALMETTO CABBAGE PALMETTO	12`-25` CT, STAGGERED PER PLAN	N**	CURVED TRUNKS
VM3	3	VEITCHIA MONTGOMERYANA MONTGOMERY PALM	14` CT., 22` OA.	**	TRIPLE
RELOCATED TREES & PALMS	QTY	BOTANICAL / COMMON NAME	SIZE	NATIVE/ DROUGHT	REMARKS
BS-R	1	BURSERA SIMARUBA GUMBO LIMBO	RELOCATED FROM SITE	N**	

SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	NATIVE/ DROUGHT	REMARKS
LIC	2	LICUALA GRANDIS LICUALA PALM	4` HT X 2.5` SPRD, FULL CANOPY		
PRC	1	PHILODENDRON X `ROJO CONGO` ROJO CONGO PHILODENDRON	24" HT X 24" SPRD		PLACED AS PER PLAN
RHA	20	RHAPIS EXCELSA LADY PALM	24" HT. X 24" SPRD.		
SER	3	SERENOA REPENS SAW PALMETTO	18" HT X 24" SPR	N**	
SHRUB AREAS	QTY	BOTANICAL / COMMON NAME	SIZE	NATIVE/ DROUGHT	SPACING
ERN	170	ERNODEA LITTORALIS GOLDEN CREEPER	12" HT. X 14" SPRD.	N**	18" OC
FIM	215	FICUS MIRCOCARPA `GREEN ISLAND` GREEN ISLAND FICUS	12" HT. X 12" SPRD.	N**	16" OC
MIS	3,773	MICROSORUM SCOLOPEBDRIUM WART FERN	12" HT. X 14" SPRD.	**	18" OC
MUH	96	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	24" HT. X 24" SPRD.	N**	24" OC
ZAM	170	ZAMIA PUMILA COONTIE	15" HT. X 18" SPRD.	N**	18" OC

NOTES:

1. SOD TO BE ST. AUGUSTINE 'FLORATAM', EXCEPT IN RETENTION AREAS. CONTRACTOR TO DETERMINE QUANTITY.
2. ALL PLANTS TO BE FLORIDA NO. 1 OR BETTER PER FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.
3. ALL SOD AND LANDSCAPE TO RECEIVE 100% COVERAGE WITH 100% OVERLAP FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN APPROVED WATER SOURCE.
4. BUBBLERS TO BE PROVIDED FOR NEW AND RELOCATED TREES AND PALMS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL CONDITIONS AND LANDSCAPE SPECIFICATION ATTACHED TO THIS PLAN AND PLANT LIST. PLAN AND SPECIFICATIONS SHALL BE CONSIDERED CONTRACT DOCUMENTS.
6. PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE ANY PLANT MATERIAL IS INSTALLED ON SITE.
7. ALL ROAD ROCK, CONCRETE, ASPHALT AND OTHER NON-NATURAL MATERIAL BE REMOVED AND BE REPLACED WITH PLANTING SOIL PRIOR TO LANDSCAPE INSTALLATION.
8. NO TRENCHING ALLOWED WITHIN ROOT ZONES OF EXISTING TREES.
9. ALL CATEGORY 1 INVASIVE/EXOTIC TREES TO BE REMOVED PER LOCAL ORDINANCE.



N

GRAPHIC SCALE

0 30 60

SCALE= 1" = 30'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

DRAWN BY: AS | DATE: 04/15/2022
DESIGNED BY: AS | SCALE: AS NOTED
CHECKED BY: KS, PW | FIELD BOOK:

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

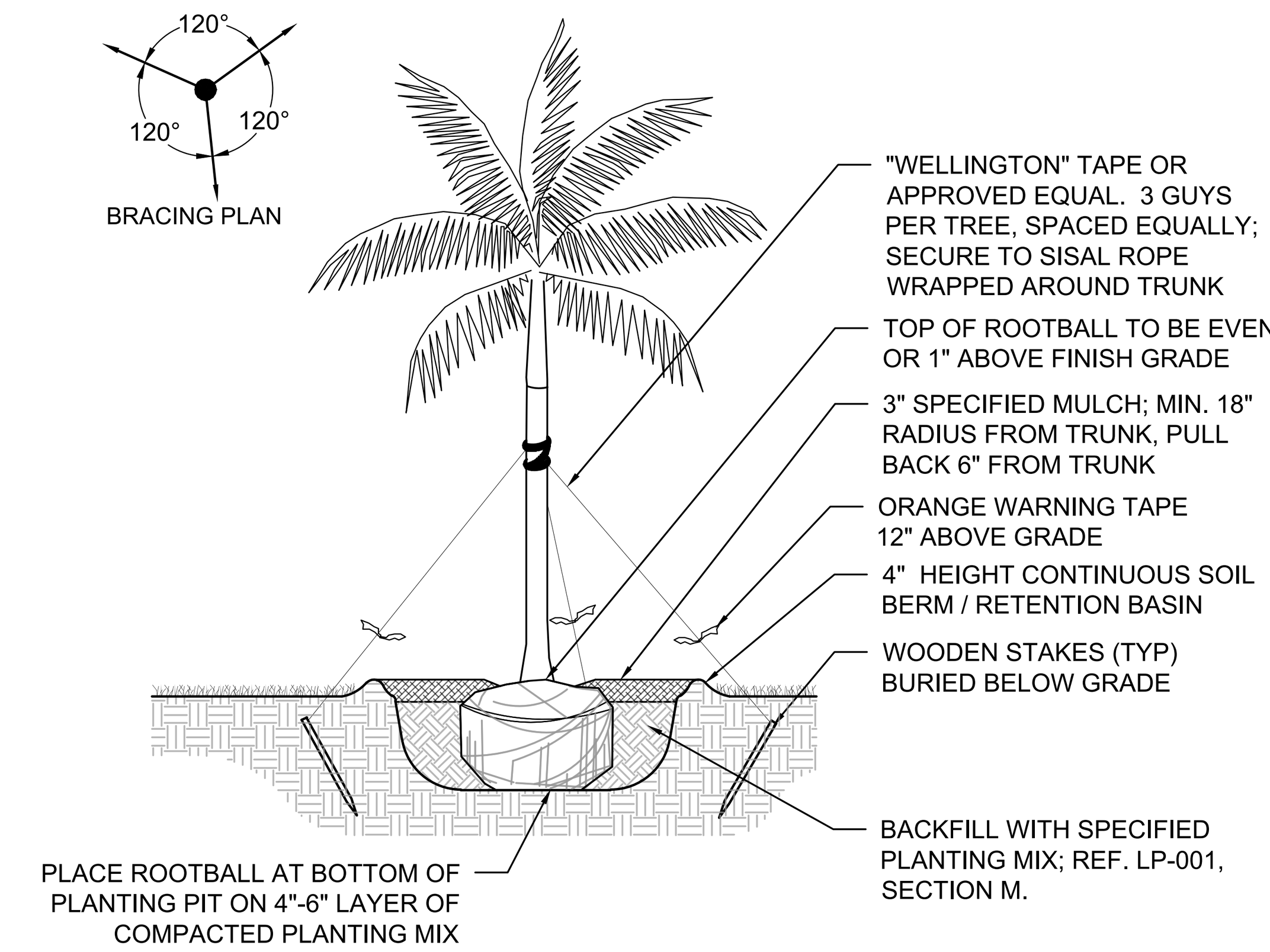
PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
LANDSCAPE PLAN
501 SEABREEZE BLVD., FT. LAUD., FL.33316

SHEET NO. LP-101 | OF
TOTAL:
CAD FILE: 11405.00-LP-101
DRAWING FILE NO. TBD

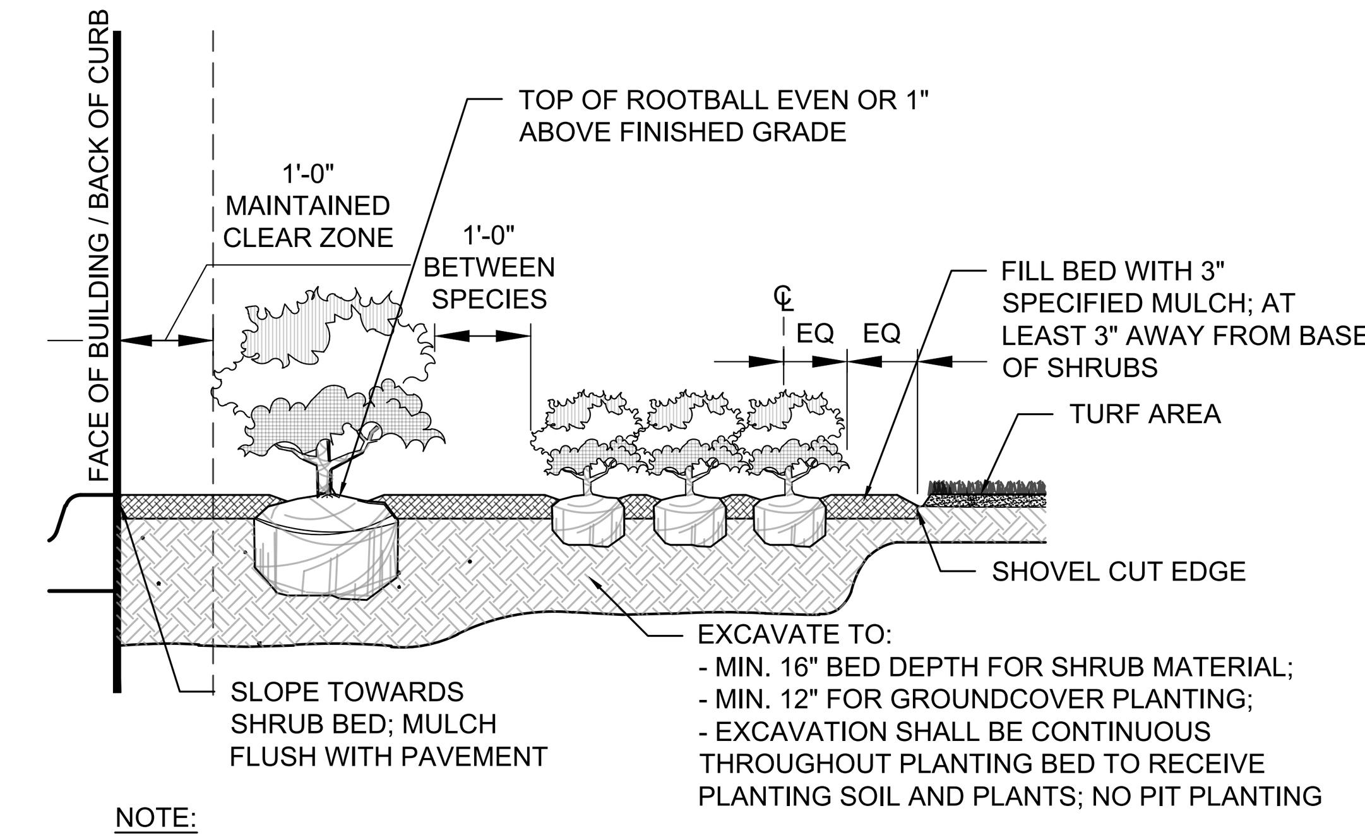
S:\11405.00 - ISHOF -HENSEL PHELPS\LANDSCAPE ARCHITECTURE\CAD\11405.00-LP-101.DWG

Drawing name: S:\11405.00 - ISHOF -Hensel Phelps\Landscape Architecture\CAD\11405.00-LP-101.dwg Layout Name: LP-101 Plotted on: Jun 30, 2022 - 1:55pm

NOTE:
- REF. LP-001, LANDSCAPE NOTES, FOR ADDITIONAL REQUIREMENTS.
- ROOT BALL SIZE FOR ALL TREES AND PALMS TO BE IN PROPORTION TO SIZE AND TYPE OF PALM PER FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.

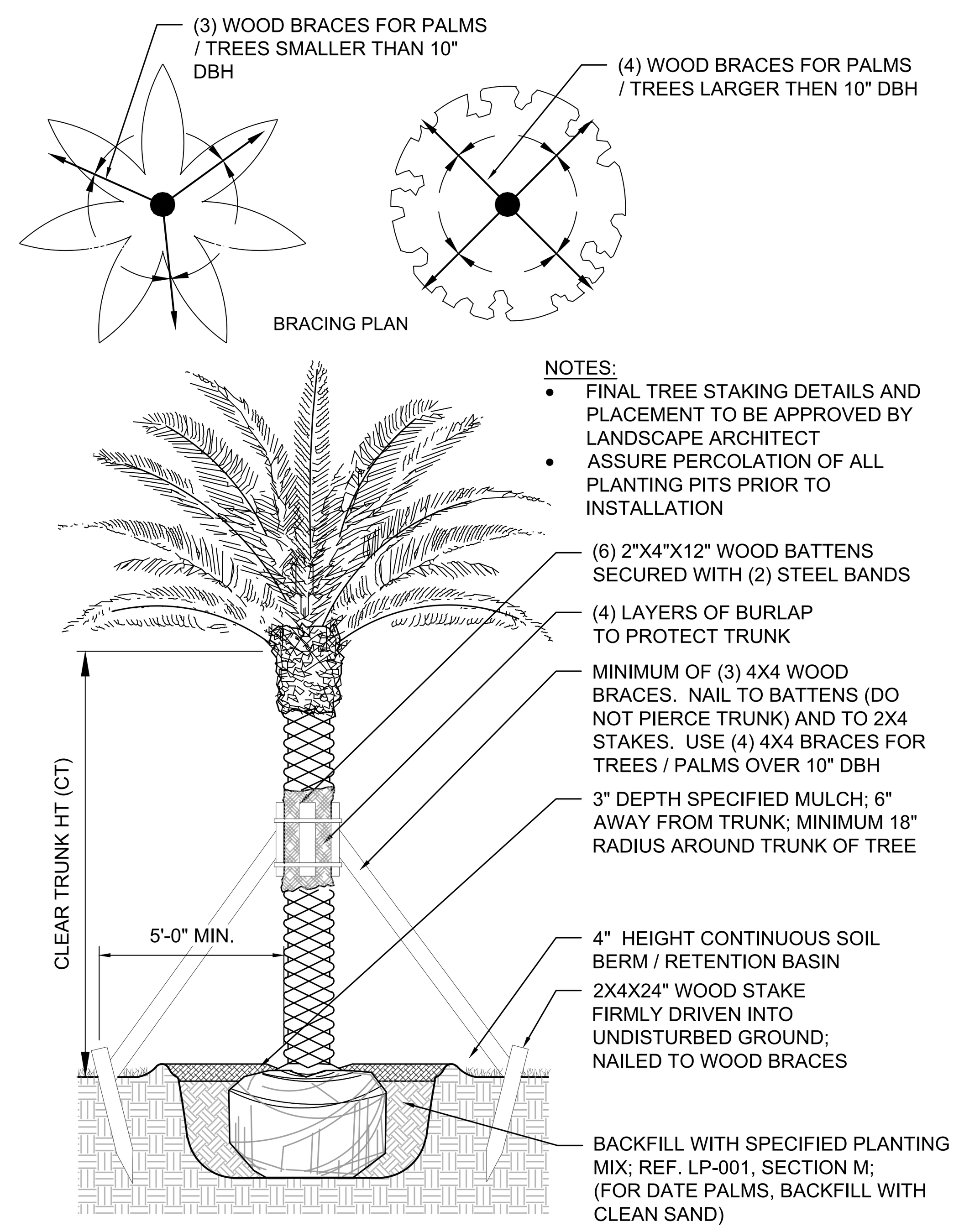


6 SMALL / MEDIUM TREE PALM PLANTING DETAIL
SECTION NOT TO SCALE



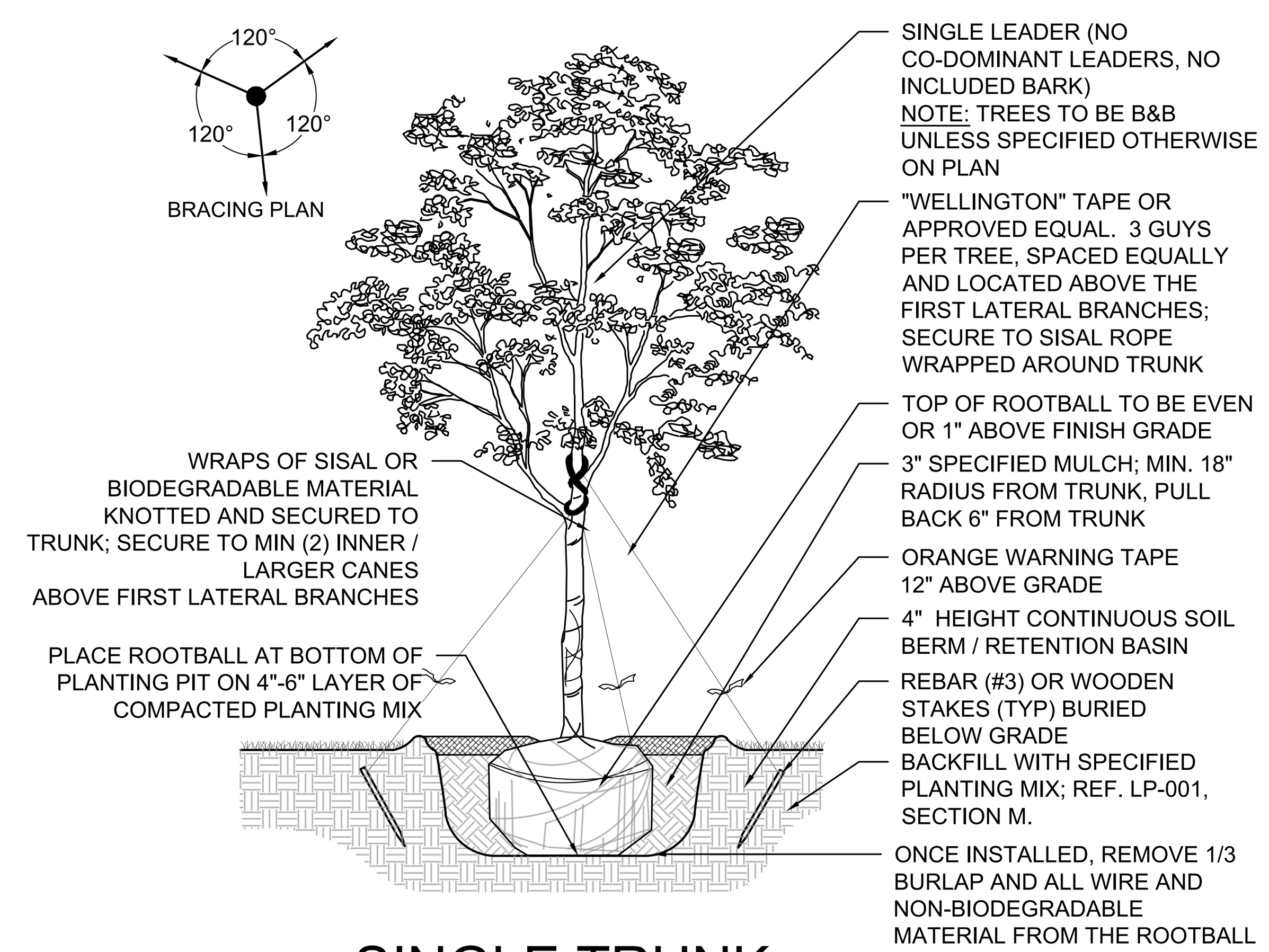
NOTE:
- PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION. AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY OR AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING BEDS PRIOR TO INSTALLATION.

3 SHRUB AND GROUNDCOVER PLANTING
SECTION NOT TO SCALE

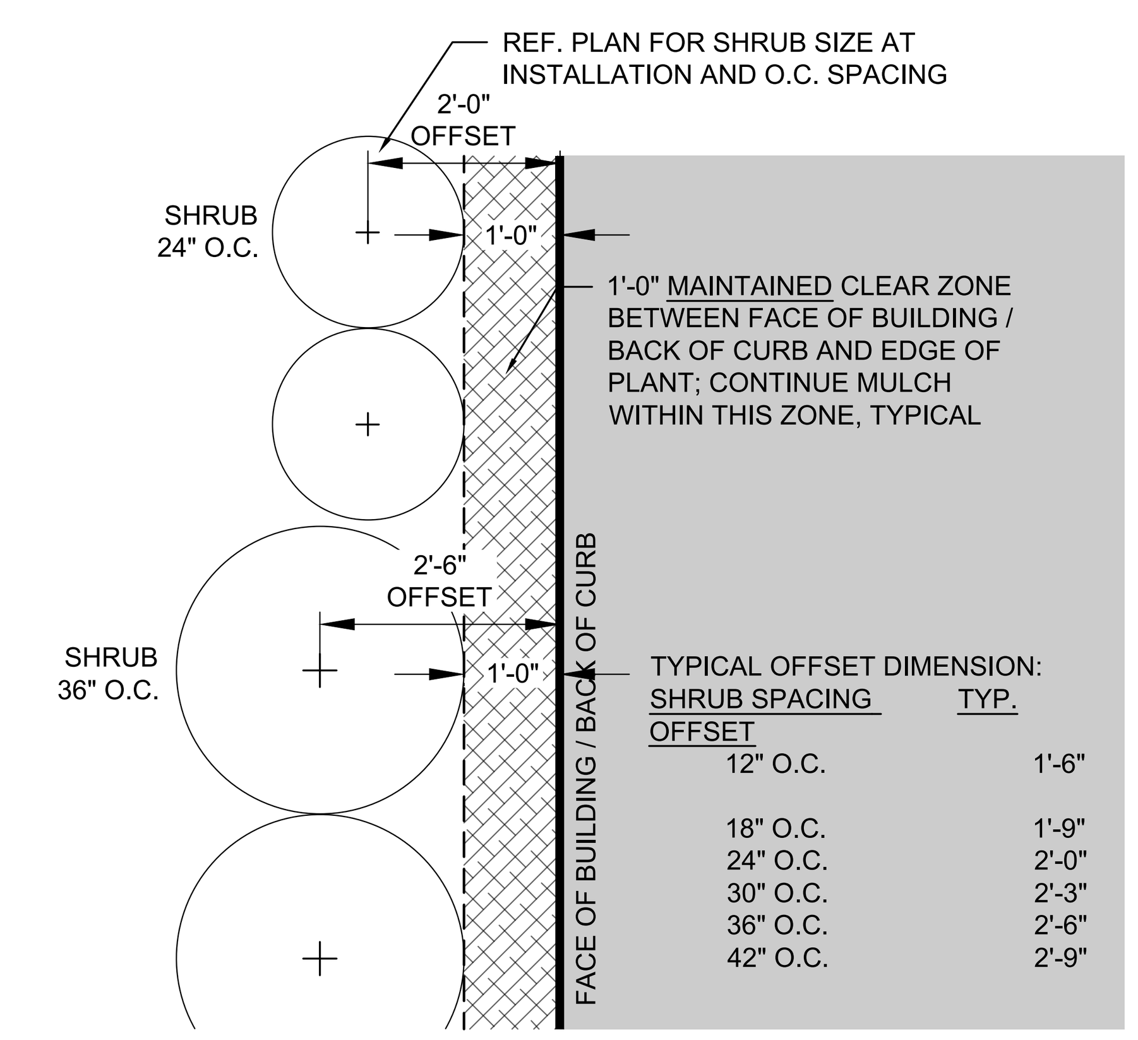


NOTES:
- FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY LANDSCAPE ARCHITECT
- ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION

8 LARGE PALM PLANTING DETAIL
SECTION NOT TO SCALE

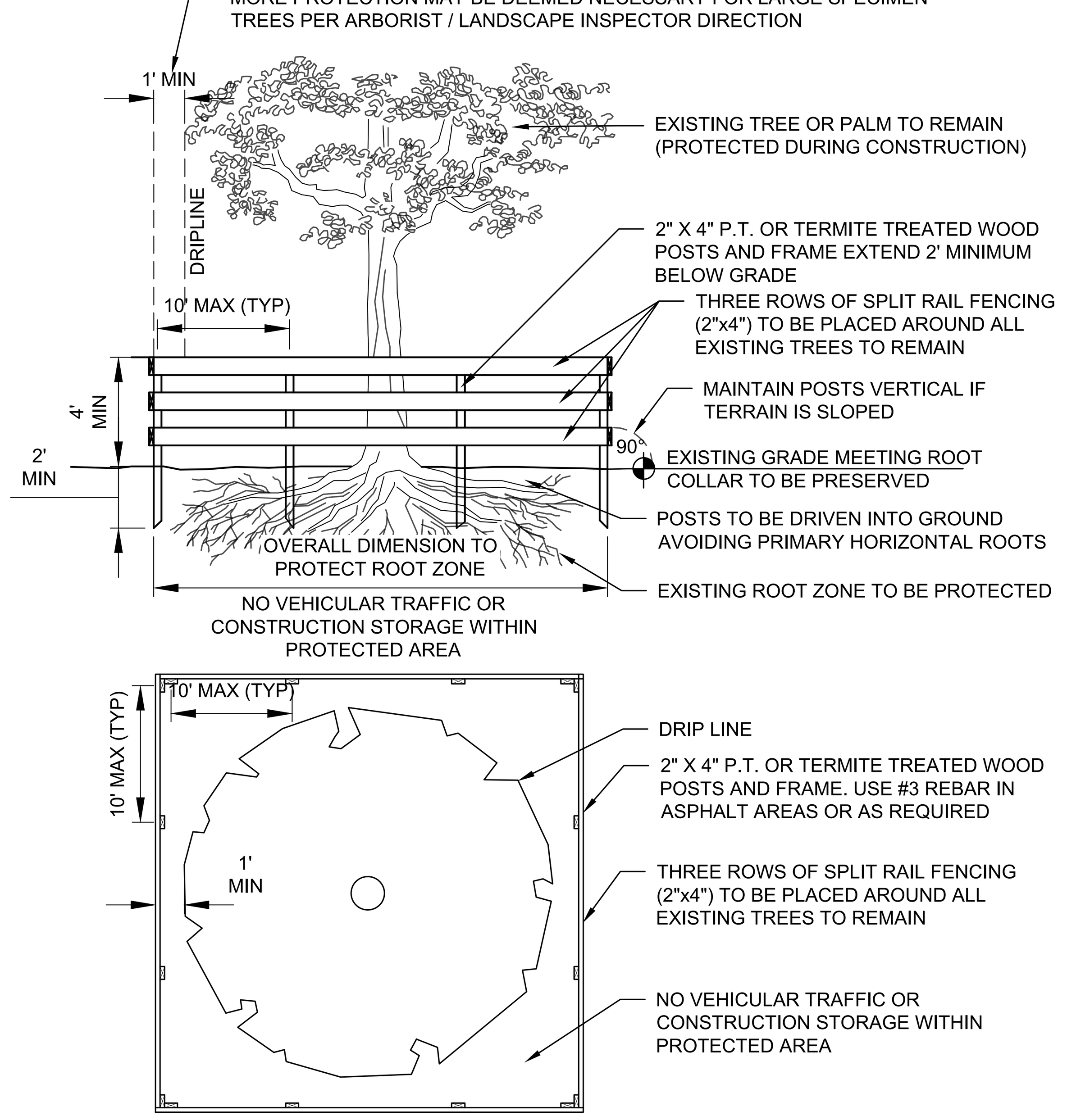


5 SINGLE TRUNK TREE PLANTING DETAIL
SECTION NOT TO SCALE

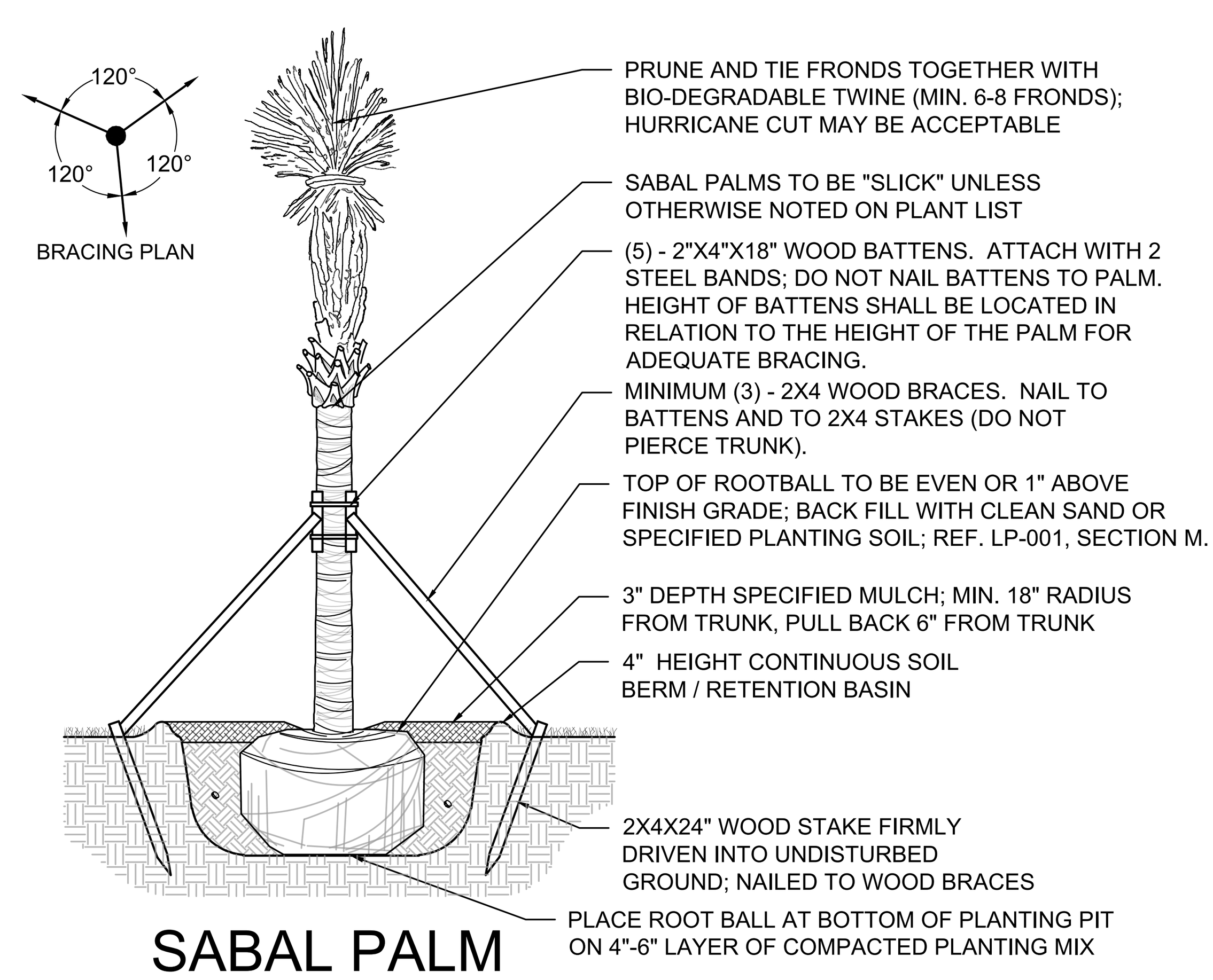


2 TYPICAL SHRUB OFFSET AT BUILDING / CURB
PLAN NOT TO SCALE

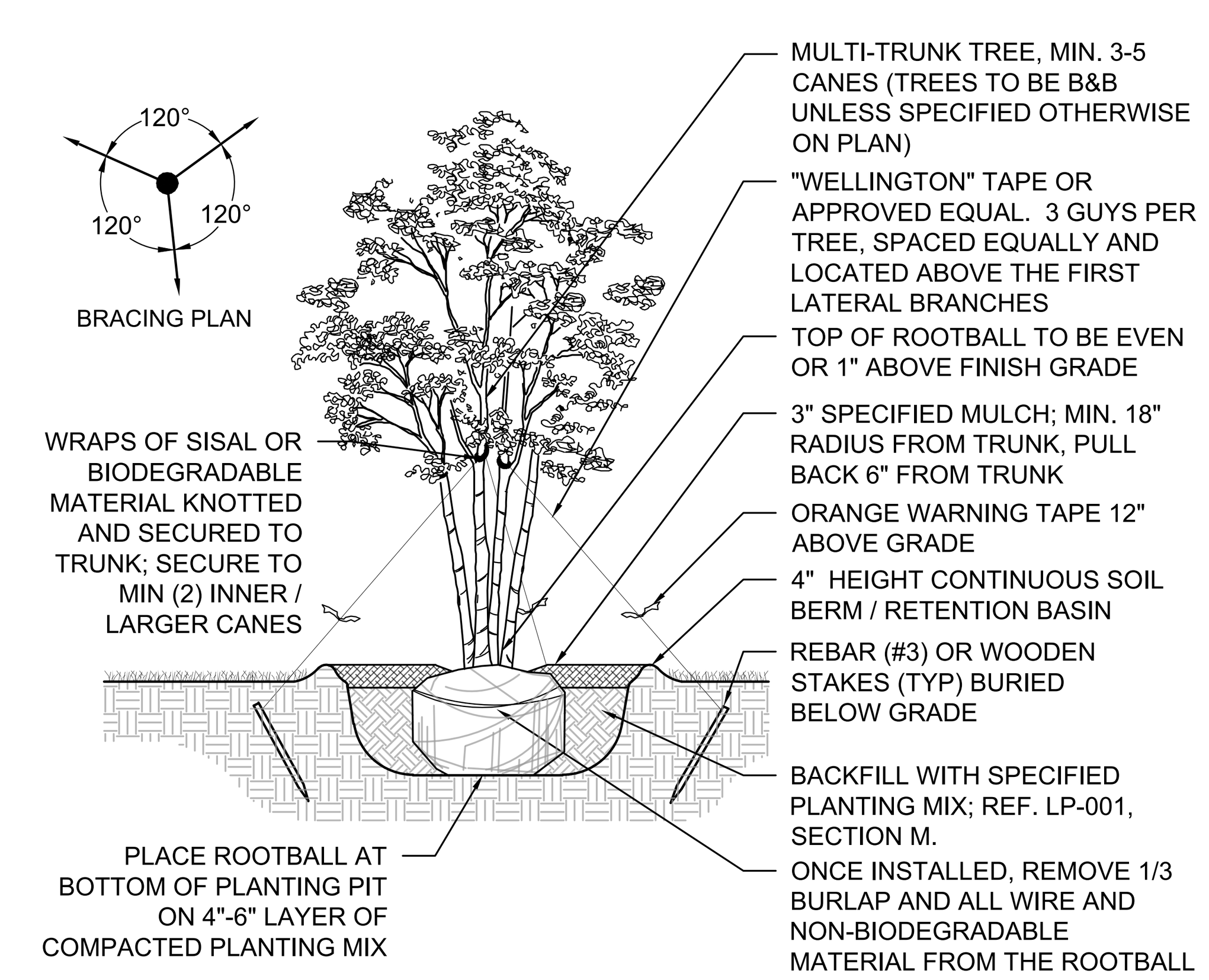
FENCE SHALL BE LOCATED MIN. 1' BEYOND CANOPY DRIP LINE PROJECTION. MORE PROTECTION MAY BE DEEMED NECESSARY FOR LARGE SPECIMEN TREES PER ARBORIST / LANDSCAPE INSPECTOR DIRECTION



9 CITY OF FORT LAUDERDALE TREE PROTECTION BARRICADE
PLAN / SECTION NOT TO SCALE

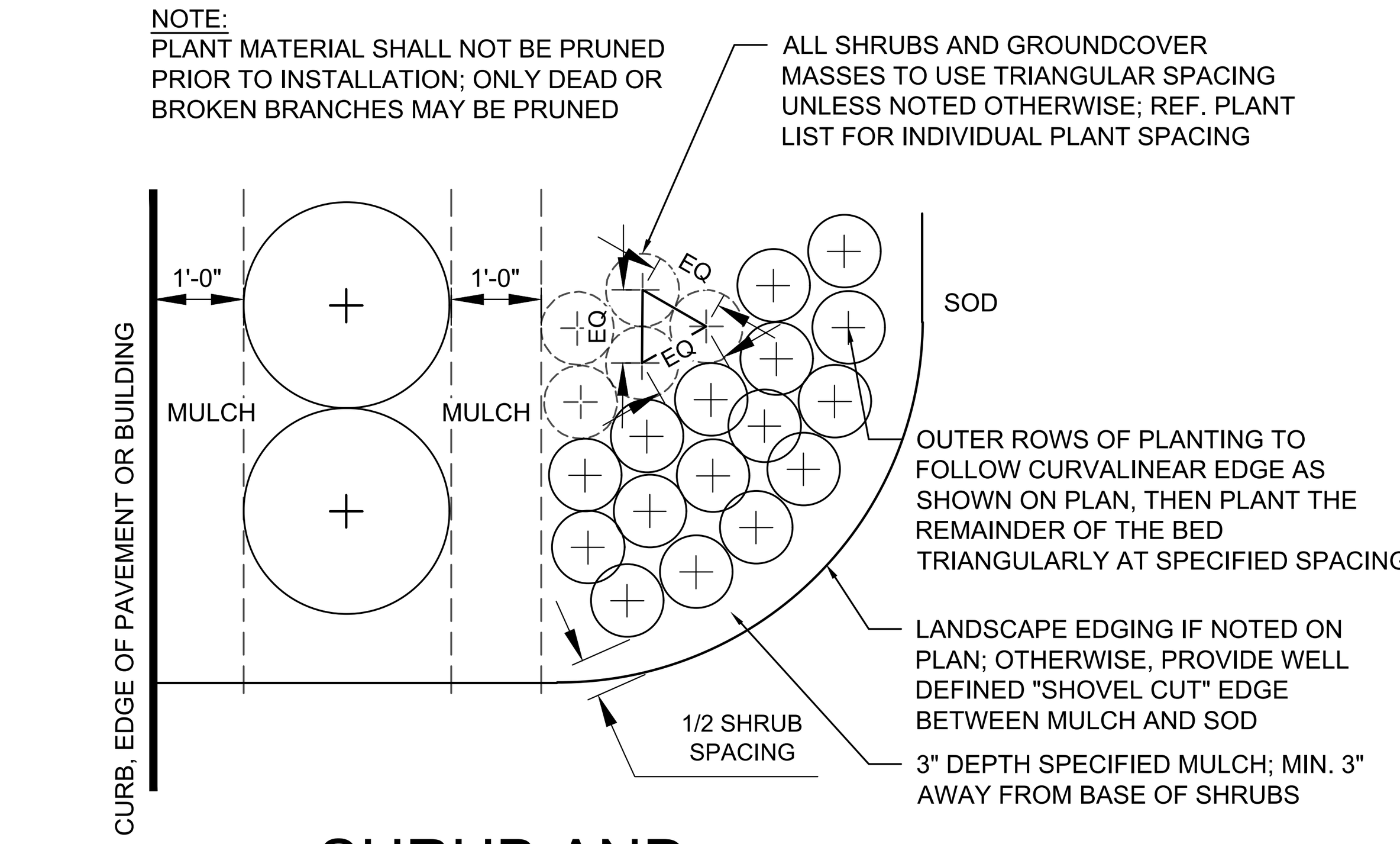


7 SABAL PALM PLANTING DETAIL
SECTION NOT TO SCALE



4 MULTI-TRUNK TREE PLANTING DETAIL
SECTION NOT TO SCALE

NOTE:
PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION; ONLY DEAD OR BROKEN BRANCHES MAY BE PRUNED



1 SHRUB AND GROUNDCOVER PLANTING
PLAN NOT TO SCALE

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457
KEITH PROJECT No. 11405.00

06/16/2022 - 30% SET

PROJECT # 11405.00
INTERNATIONAL SWIMMING HALL OF FAME
WEST & EAST BUILDINGS
LANDSCAPE DETAILS
501 SEABREEZE BLVD., FT. LAUD., FL.33316

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: AS	DATE: 04/15/2022
DESIGNED BY: AS	SCALE: AS NOTED
CHECKED BY: KS, PW	
FIELD BOOK:	

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

SHEET NO.	OF
LP-501	
TOTAL:	
CAD FILE: 11405.00-LP-501	
DRAWING FILE NO. TBD	

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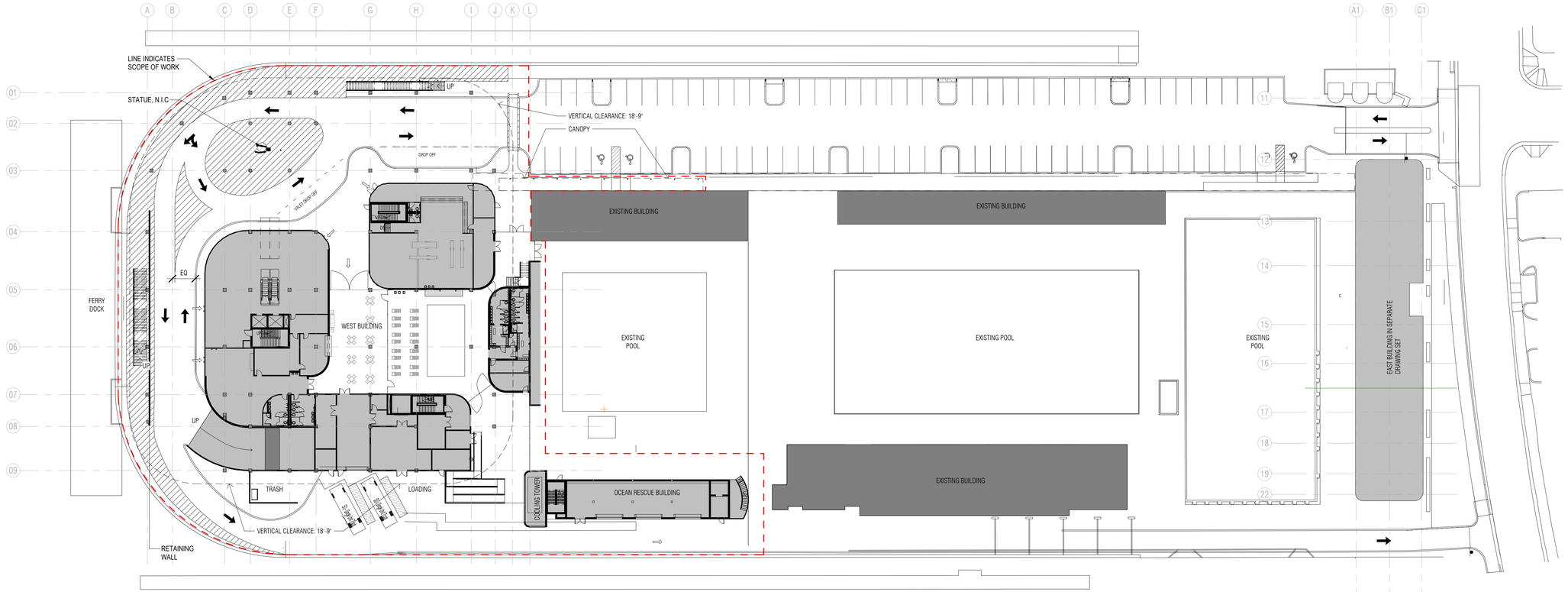

1 OVERALL SITE PLAN

1/32" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

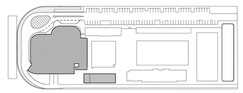
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
SITE PLAN

PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 1/32" = 1'-0"

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A0-001

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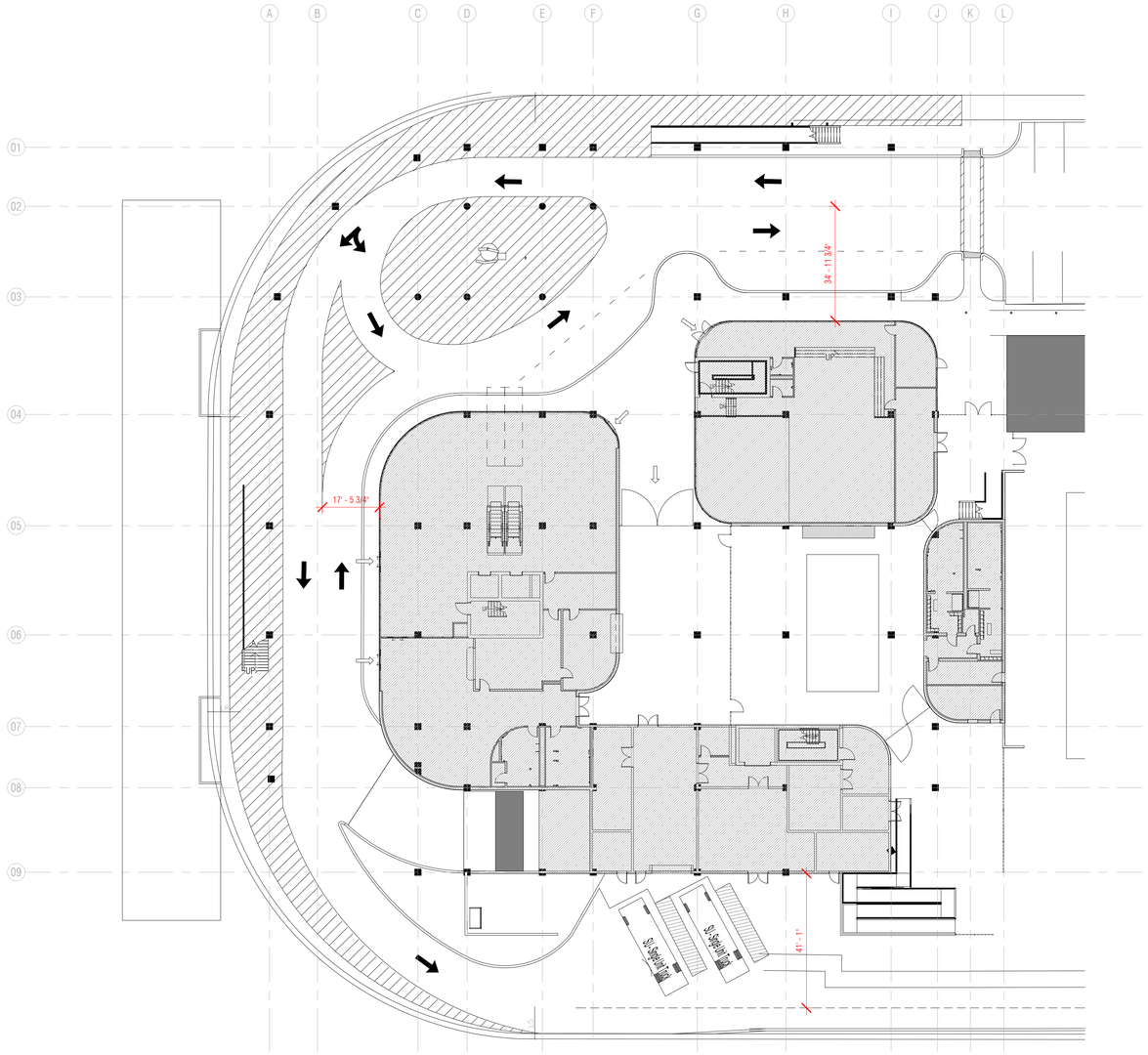
PLUMBING FIXTURE ANALYSIS											
LEVEL	OCCUPANCY LOAD	REQUIRED WATER CLOSETS/ URINALS	PROVIDED PLUMBING FIXTURES (REQUIRED/PROVIDED)							
			WATER CLOSETS/URINALS			LAVATORY			DRINKING FOUNTAIN	SERVICE SINK
			MALE	FEMALE	UNI	MALE	FEMALE	UNI		
LEVEL 01	454		11	10	2	2	2	2	.../8	.../2
LEVEL 02 PARKING	198		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEVEL 03 PARKING	194		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEVEL 04	766		4	5	2	2	2	2	.../2	.../2
LEVEL 04 MEZZ.	259				2			2		
LEVEL 05	885		8	8	0	1	1	0	../2	.../1
LEVEL 05 MEZZ.	142		8	8	0	1	1	0	../2	.../1
LEVEL 06	466		4	4	0	1	1	0	../0	../0
TOTAL PROVIDED		0	35	35	6	7	4	6	14	6



1 FSD DIAGRAM

3/64" = 1'-0"

PROJECT DESCRIPTION:

THE PROPOSED INTERNATIONAL SWIMMING HALL OF FAME – WEST BUILDING PROJECT WILL BE A MIXED-USE BUILDING COMPOSED OF 6-STORIES. THE WEST BUILDING HAS PRIMARY USE OF GROUP A, ASSEMBLY OCCUPANCY WHICH INCLUDES GALLERY (GROUP A-3), RESTAURANT AND BAR (GROUP A- 2), BALLROOMS (GROUP A-3), POOL AND POOL DECK (GROUP A-3), LIBRARY (GROUP A-3), EVENT SPACE (GROUP A-3) ALONG WITH GIFT SHOP (GROUP M), OFFICES (GROUP B), LOADING DOCK (GROUP S-1), PARKING GARAGE (GROUP S-2) AND GENERAL STORAGE/MEP (GROUP S-2).
SINCE THE HIGHEST OCCUPIABLE FLOOR IS GREATER THAN 75 FEET (106 FEET), THIS BUILDING SHALL BE CONSIDERED A HIGH-RISE.
THE BUILDING WILL BE PROTECTED THROUGHOUT BY AUTOMATIC SPRINKLERS DESIGNED IN ACCORDANCE WITH NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, AND AN EMERGENCY-VOICE ALARM COMMUNICATION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE.

CONSTRUCTION TYPE: TYPE 1B

FIRE-RESISTANCE RATINGS OF BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT	FIRE-RESISTANCE RATING (HOURS)
PRIMARY STRUCTURAL FRAME	2
BEARING WALLS	
EXTERIOR	2
INTERIOR	2
NONBEARING WALLS AND PARTITIONS	(TABLE 602)
EXTERIOR	0
INTERIOR[1]	
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	2
ROOF CONSTRUCTION AND SECONDARY MEMBERS	1[2,3]

[1]FIRE-RESISTANCE RATINGS OF THE PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE SUPPORTING A ROOF ONLY.
[2]EXCEPT IN GROUP F-1, H, M, AND S-1 OCCUPANCIES, FIRE PROTECTION OF PRIMARY STRUCTURAL MEMBERS SHALL NOT BE REQUIRED, INCLUDING PROTECTION OF ROOF FRAMING, AND DECKING WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 20 FEET OR MORE ABOVE ANY FLOOR IMMEDIATELY BELOW. FIRE-RETARDANT-TREATED WOOD MEMBERS SHALL BE ALLOWED TO BE USED FOR SUCH UNPROTECTED MEMBERS.
[3]IN ALL OCCUPANCIES, HEAVY TIMBER COMPLYING WITH SECTION 2304.11 SHALL BE ALLOWED WHERE A 1-HOUR OR LESS FIRE-RESISTANCE RATING IS REQUIRED.
[4]NOT LESS THAN THE FIRE-RESISTANCE RATING REQU IRED BY OTHER SECTIONS OF THE FBC.
[5]NOT LESS THAN REQUIRED BY TABLE 602 OF THE FBC BASED ON THE FIRE SEPARATION DISTANCES (FSDS).
[6]NOT LESS THAN THE RATING AS REFERENCED IN FBC SECTION 704.10

TYPE IA AND VA EXTERIOR WALL RATINGS AND ALLOWABLE OPENINGS

FIRE SEPARATION DISTANCE = X (FEET)	ALLOWABLE OPENING AREA	FIRE-RESISTANCE RATING (GROUP M, S-1)	FIRE-RESISTANCE RATING (GROUP A, B, R, S-2)
0 < X < 3	NO PERMITTED	2	1
3 ≤ X < 5	15%	2	1
5 ≤ X < 10	25%	1	1
10 ≤ X < 15	45%	1	1
15 ≤ X < 20	75%	1	1
X ≥ 20	NO LIMIT	0	0

NOTE: SEE DIAGRAM TO THE LEFT.
THE FSD AT THE WEST WALL IS 17'-5", WHICH ALLOWS FOR 1HR EXTERIOR WALLS WITH 75% ALLOWABLE OPENING AREA.
THE FSD AT THE NORTH AND SOUTH WALLS ARE MORE THAN 20'-0", SO THERE IS NO LIMIT TO ALLOWABLE OPENING AREA.

ENERGY CONSERVATION CODE GENERAL SUMMARY:

CLIMATE ZONE: 1

TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MIN. REQUIREMENTS, R-VALUE METHOD

ROOFS - INSULATION ABOVE DECK -	R-20ci
WALLS, ABOVE GRADE MASS	R-5.7ci
WALLS, BELOW GRADE	NR
FLOORS - MASS	NR
SLAB-ON-GRADE FLOORS, UNHEATED SLABS	NR
OPAQUE DOORS, NONSWINGING	R-4.75

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

U-FACTOR		
FIXED FENESTRATION	0.5	
ENTRANCE DOORS	1.10	
SHGC	SEW	N
PF< 0.2	0.25	0.33
0.2 ≤ PF < 0.5	0.30	0.37
PF ≥ 0.5	0.40	0.40

GENERAL MEANS OF EGRESS REQUIREMENTS:

MAXIMUM ALLOWABLE TRAVEL DISTANCE:
AS A BUILDING PROTECTED THROUGHOUT BY AUTOMATIC SPRINKLERS, THE FOLLOWING MAXIMUM ALLOWABLE TRAVEL DISTANCES ARE APPLICABLE AS REQUIRED BY FBC T-1006.2.1, SECTION 1020.4, T-1017.2, AND FFPC, NFPA 101 T-A.7.6.

TABLE 6 - TRAVEL DISTANCE REQUIREMENTS

OCCUPANCY GROUP CLASSIFICATIONS (FBC)	OCCUPANCY CLASSIFICATION (FFPC)	DISTANCES
USE GROUP A, ASSEMBLY OCCUPANCIES	ASSEMBLY	MAX. TRAVEL DISTANCE: 250 FEET MAX. DEAD END DISTANCE: 20 FEET MAX. COMMON PATH DISTANCE: 20/75 FEET[1]
USE GROUP B, BUSINESS OCCUPANCIES	BUSINESS	MAX. TRAVEL DISTANCE: 300 FEET MAX. DEAD END DISTANCE: 50 FEET MAX. COMMON PATH DISTANCE: 100 FEET[1]
USE GROUP M, MERCANTILE OCCUPANCIES	MERCANTILE	MAX. TRAVEL DISTANCE: 250 FEET MAX. DEAD END DISTANCE: 50 FEET MAX. COMMON PATH DISTANCE: 75 FEET
USE GROUP S-1, MODERATE HAZARD STORAGE OCCUPANCIES	STORAGE ORDINARY	MAX. TRAVEL DISTANCE: 250 FEET MAX. DEAD END DISTANCE: 50 FEET MAX. COMMON PATH DISTANCE: 100 FEET
USE GROUP S-2, LOW HAZARD STORAGE OCCUPANCIES	STORAGE - LOW	MAX. TRAVEL DISTANCE: STORAGE - 400 FEET (FBC) MAX. DEAD END DISTANCE: STORAGE - 50 FEET (FBC) MAX. COMMON PATH DISTANCE: STORAGE - 100 FEET (FBC)

[1]ASSEMBLY USE SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE, SHALL HAVE ITS COMMON PATH OF TRAVEL DISTANCE LIMITED AT 20-FEET. IF THE OCCUPANT LOAD IS LESS THAN 50, THEN THE COMMON PATH OF TRAVEL DISTANCE SHALL BE LIMITED TO 75-FEET.

OCCUPANT LOAD FACTORS:

USE OF SPACE	OCCUPANT LOAD FACTORS [FT²/OCCUPANT]
ASSEMBLY –CONCENTRATED	7 NET
ASSEMBLY –UNCONCENTRATED TABLES & CHAIRS	15 NET
COMMERCIAL KITCHEN	100 GROSS (FFPC)
MECHANICAL SPACES	300 GROSS (FBC)
OFFICES	150 GROSS
STORAGE AREAS	300 GROSS (FBC)

EGRESS CAPACITY

OCCUPANCY	EGRESS COMPONENT	EGRESS CAPACITY FACTOR (INCHES/OCCUPANT)	
		FFPC	FBC
ALL OTHERS	STAIRWAYS < 44 INCHES	0.3	0.2
	STAIRWAY > 44 INCHES	SEE NOTE 1	0.2
	LEVEL COMPONENTS	0.2	0.15

NOTE 1: FOR STAIRWAYS IN THE REFERENCED OCCUPANCIES THAT ARE WIDER THAN 44 IN., THE CAPACITY IS PERMITTED TO BE INCREASED USING THE FOLLOWING EQUATION:
C = 146.7 + (Wn - 44) / 0.218

WHERE:
C = CAPACITY, IN PERSONS, ROUNDED TO THE NEAREST INTEGER
WN = NOMINAL WIDTH OF THE STAIR [INCHES]

STAIRS MUST HAVE A MINIMUM WIDTH OF 44 INCHES. IF THE CUMULATIVE OCCUPANT LOAD ASSIGNED TO A STAIR IS OVER 2,000 PERSONS, THE STAIR MUST HAVE A MINIMUM WIDTH OF 56 INCHES PER FFPC, NFPA 101 TABLE 7.2.2.2.1.2(B).

FIRE PROTECTION AND LIFE SAFETY SYSTEMS OVERVIEW:

FIRE EXTINGUISHERS:

HAZARD AREA	MINIMUM SIZE AND TYPE	MAX. TRAVEL DIST.	MAX. FLOOR AREA PER UNIT OF A	MAX. FLOOR AREA PER EXTINGUISHER
LOW HAZARD (ASSEMBLY/OFFICE)	2A:10B:C INCREASE RATING BASED ON LIMITS	75 FEET	3,000 SF	11,250 SF
MODERATE HAZARD (STORAGE)	2A:20B:C INCREASE RATING BASED ON LIMITS	50 FEET	1,500 SF	11,250 SF
COMMERCIAL KITCHEN	CLASS K	30 FEET TO COOKING APPLIANCE	N/A	N/A

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

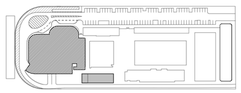
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11521 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

LIFE SAFETY - GENERAL NOTES

PROJECT NUMBER: 010326.000
DATE: 00-00-00
SCALE: As indicated

SHEET

A1-004

CAM 23-0723
Exhibit 1M
Page 27 of 169

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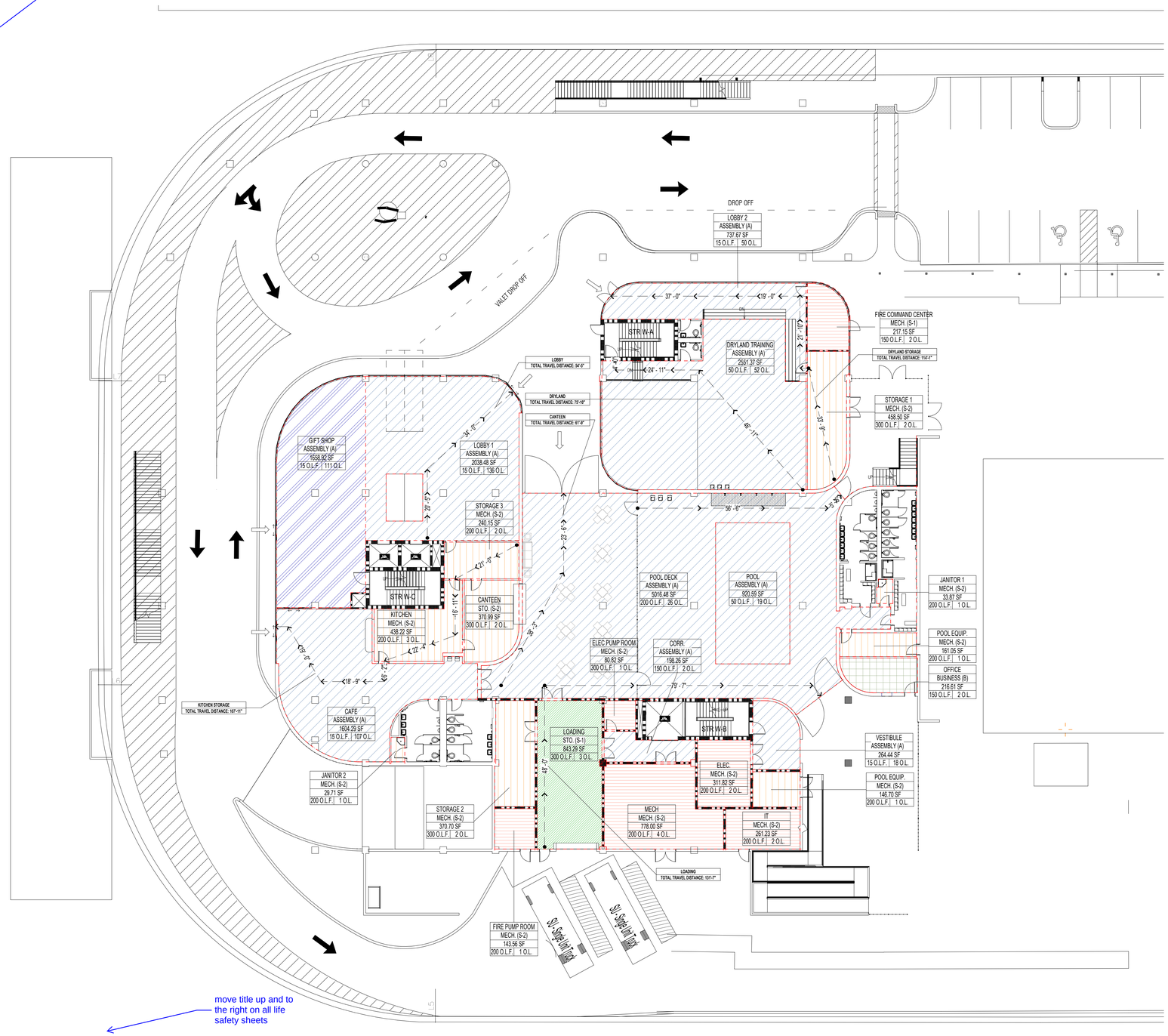
check this compared to SLS QAQC

ROOM OCCUPANCY SCHEDULE

NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
Not Placed				
CIRCULATION	0 SF		150	7
IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
CANTEEN	371 SF	STORAGE	300	2
CORR.	198 SF	ASSEMBLY	150	2
DRYLAND TRAINING	2,551 SF	ASSEMBLY	50	52
ELEC PUMP ROOM	81 SF	MECHANICAL	300	1
ELEC.	312 SF	MECHANICAL	200	2
FIRE COMMAND CENTER	217 SF	MECHANICAL	150	2
FIRE PUMP ROOM	144 SF	MECHANICAL	200	1
GIFT SHOP	1,659 SF	MERCANTILE	15	113
IT	261 SF	MECHANICAL	200	1
JANITOR 1	34 SF	STORAGE	200	1
JANITOR 2	30 SF	STORAGE	200	1
KITCHEN	438 SF	STORAGE	200	2
LOADING	843 SF	LOADING	300	3
LOBBY 1	2,038 SF	ASSEMBLY	15	142
LOBBY 2	738 SF	ASSEMBLY	15	50
MECH	778 SF	MECHANICAL	200	3
OFFICE	217 SF	BUSINESS	150	5
POOL	921 SF	ASSEMBLY	50	19
POOL DECK	5,016 SF	ASSEMBLY	200	26
POOL EQUIP.	308 SF	STORAGE	200	2
STORAGE 1	458 SF	STORAGE	300	2
STORAGE 2	371 SF	STORAGE	300	2
STORAGE 3	240 SF	STORAGE	200	2
VESTIBULE	264 SF	ASSEMBLY	15	18
LEVEL 1 (0'-0")	20,093 SF			561
LEVEL 2 (20'-0")				
CIRCULATION	1,895 SF	ASSEMBLY	150	13
CORRIDOR	1,233 SF	ASSEMBLY	150	9
PARKING	34,275 SF	PARKING	200	172
STG	637 SF	STORAGE	300	4
LEVEL 2 (20'-0")	38,040 SF			198
LEVEL 3 (34'-0")				
CIRCULATION	1,256 SF	ASSEMBLY	150	9
ELEC.	208 SF	MECHANICAL	200	1
MECH	471 SF	MECHANICAL	300	2
PARKING	36,147 SF	PARKING	200	181
STORAGE	565 SF	STORAGE	200	3
LEVEL 3 (34'-0")	38,647 SF			196
LEVEL 4(48'-0")				
COLLECTIONS	636 SF	STORAGE	300	3
CONFERENCE	210 SF	BUSINESS	15	5
CORR. 1	1,052 SF	ASSEMBLY	150	0
CORR. 2	626 SF	ASSEMBLY	150	5
ELEC/ IT	199 SF	MECHANICAL	200	0
EXT. CORR.	5,907 SF	CIRCULATION	150	99
GATHERING AREA	824 SF	ASSEMBLY	15	73
JAN.	51 SF	ASSEMBLY	200	0
MUSEUM	11,133 SF	ASSEMBLY	30	111
OFFICE SUITE	1,504 SF	BUSINESS	150	30
PRE-FUNCTION	636 SF	ASSEMBLY	7	91
STG 1	386 SF	ASSEMBLY	300	2
STG 2	1,218 SF	STORAGE	300	5
STORAGE	76 SF	STORAGE	300	1
THEATER	1,273 SF	ASSEMBLY	9.8	130
VIP ROOM	2,843 SF	ASSEMBLY	15	213
LEVEL 4(48'-0")	28,574 SF			768
LEVEL 4 MEZZ (60'-6")				
BUSINESS	2,766 SF	BUSINESS	200	12
ELEC/IT	179 SF	ASSEMBLY	200	0
MECH	793 SF	MECHANICAL	300	3
MUSEUM	7,024 SF	ASSEMBLY	30	244
LEVEL 4 MEZZ (60'-6")	10,763 SF			259
LEVEL 5 (73'-0")				
CORRIDOR 1	294 SF	ASSEMBLY	150	2
CORRIDOR 2	337 SF	ASSEMBLY	150	3
ELEC	160 SF	MECHANICAL	200	1
EVENT SPACE	13,245 SF	ASSEMBLY	15	765
EXT. CORR. 1	758 SF	CIRCULATION	150	6
EXT. CORR. 2	132 SF	CIRCULATION	150	1
EXT. CORR. 3	270 SF	CIRCULATION	150	2
GATHERING AREA	1,012 SF	ASSEMBLY	15	68
JANITOR	18 SF	STORAGE	300	1
KITCHEN	3,319 SF	MECHANICAL	200	19
STORAGE 1	1,206 SF	STORAGE	300	5
STORAGE 2	946 SF	STORAGE	300	4
LEVEL 5 (73'-0")	21,698 SF			877
LEVEL 05 MEZZ (85'-6")				
OFFICES	7,972 SF	BUSINESS	150	54
LEVEL 05 MEZZ (85'-6")	7,972 SF			54
LEVEL 06 (98'-0")				
BAR	62 SF	ASSEMBLY	100	2
CORR.	236 SF	ASSEMBLY	150	0
ELEC	160 SF	MECHANICAL	300	1
KITCHEN	604 SF	MECHANICAL	200	4
PANTRY	220 SF	STORAGE	300	1
PRIVATE DINING	374 SF	ASSEMBLY	15	25
RESTAURANT	3,284 SF	ASSEMBLY	15	214
TERRACE	3,027 SF	ASSEMBLY	15	202
VEST.	263 SF	ASSEMBLY	15	18
LEVEL 06 (98'-0")	8,231 SF			467
Grand total	174,016 SF			3531

EGRESS CAPACITY

STAIR	STAIR WIDTH	FFPC	FBC	DOOR WIDTH	FFPC	FBC
W-A	54	192	270	42	210	280
W-B	54	192	270	42	210	280
W-C	54	192	270	42	210	280
TOTAL: 576 OCCUPANTS						



EGRESS PLAN LEGEND

- NAME / XXX / X,XXX SF / XXX | X — AREA NUMBER; AREA USE; AREA; OCCUPANT LOAD; OCCUPANT FACTOR
- DOOR TAG — DOOR NUMBER; OCCUPANT MAX. CAPACITY; OCCUPANT LOAD FACTOR; NO. OCCUPANTS LOAD (ACTUAL); DOOR CLEAR WIDTH
- STAIR TAG — STAIR NUMBER; OCCUPANT MAX. CAPACITY; OCCUPANT LOAD FACTOR; NO. OCCUPANTS LOAD (ACTUAL); STAIR CLEAR WIDTH
- PATH OF TRAVEL
- FIRE EXTINGUISHER
- NON-RATED WALL
- 1-HOUR RATED WALL
- 1 1/2-HOUR RATED WALL
- 2-HOUR RATED WALL
- 3-HOUR RATED WALL
- SMOKE BARRIER/ 2-HOUR FIRE RATING
- SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:
1. SEE PARTITION SCHEDULE FOR ADDITIONAL INFORMATION.
2. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. FIRE RATING FOR PARTITIONS WILL CONTINUE ALONG DOOR OPENINGS THAT ARE IN BETWEEN THE FIRE RATED PARTITIONS.
4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

- ASSEMBLY
- BUSINESS
- CIRCULATION
- LOADING
- MECHANICAL
- MERCANTILE
- STORAGE

move title up and to the right on all life safety sheets

1 WEST BLDG - LS - LEVEL 1 (0'-0")
1/16" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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SLS CONSULTING, INC.
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VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LIFE SAFETY - LEVEL 01

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET
A1-005

8/26/2022 5:23:33 PM

ROOM OCCUPANCY SCHEDULE

NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
Not Placed				
CIRCULATION	0 SF		150	7
IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
CANTEEN	371 SF	STORAGE	300	2
CORR.	198 SF	ASSEMBLY	150	2
DRYLAND TRAINING	2,551 SF	ASSEMBLY	50	52
ELEC PUMP ROOM	81 SF	MECHANICAL	300	1
ELEC.	312 SF	MECHANICAL	200	2
FIRE COMMAND CENTER	217 SF	MECHANICAL	150	2
FIRE PUMP ROOM	144 SF	MECHANICAL	200	1
GIFT SHOP	1,659 SF	MERCANTILE	15	113
IT	261 SF	MECHANICAL	200	1
JANITOR 1	34 SF	STORAGE	200	1
JANITOR 2	30 SF	STORAGE	200	1
KITCHEN	438 SF	STORAGE	200	2
LOADING	843 SF	LOADING	300	3
LOBBY 1	2,038 SF	ASSEMBLY	15	142
LOBBY 2	738 SF	ASSEMBLY	15	50
MECH	778 SF	MECHANICAL	200	3
OFFICE	217 SF	BUSINESS	150	5
POOL	921 SF	ASSEMBLY	50	19
POOL DECK	5,016 SF	ASSEMBLY	200	26
POOL EQUIP.	308 SF	STORAGE	200	2
STORAGE 1	458 SF	STORAGE	300	2
STORAGE 2	371 SF	STORAGE	300	2
STORAGE 3	240 SF	STORAGE	200	2
VESTIBULE	264 SF	ASSEMBLY	15	18
LEVEL 1 (0'-0")	20,093 SF			561
LEVEL 2 (20'-0")				
CIRCULATION	1,895 SF	ASSEMBLY	150	13
CORRIDOR	1,233 SF	ASSEMBLY	150	9
PARKING	34,275 SF	PARKING	200	172
STG	637 SF	STORAGE	300	4
LEVEL 2 (20'-0")	38,040 SF			198
LEVEL 3 (34'-0")				
CIRCULATION	1,256 SF	ASSEMBLY	150	9
ELEC.	208 SF	MECHANICAL	200	1
MECH	471 SF	MECHANICAL	300	2
PARKING	36,147 SF	PARKING	200	181
STORAGE	565 SF	STORAGE	200	3
LEVEL 3 (34'-0")	38,647 SF			196
LEVEL 4(48'-0")				
COLLECTIONS	636 SF	STORAGE	300	3
CONFERENCE	210 SF	BUSINESS	15	5
CORR. 1	1,052 SF	ASSEMBLY	150	0
CORR. 2	626 SF	ASSEMBLY	150	5
ELEC/ IT	199 SF	MECHANICAL	200	0
EXT. CORR.	5,907 SF	CIRCULATION	150	99
GATHERING AREA	824 SF	ASSEMBLY	15	73
JAN.	51 SF	ASSEMBLY	200	0
MUSEUM	11,133 SF	ASSEMBLY	30	111
OFFICE SUITE	1,504 SF	BUSINESS	150	30
PRE-FUNCTION	636 SF	ASSEMBLY	7	91
STG 1	386 SF	ASSEMBLY	300	2
STG 2	1,218 SF	STORAGE	300	5
STORAGE	76 SF	STORAGE	300	1
THEATER	1,273 SF	ASSEMBLY	9.8	130
VIP ROOM	2,843 SF	ASSEMBLY	15	213
LEVEL 4(48'-0")	28,574 SF			768
LEVEL 4 MEZZ (60'-6")				
BUSINESS	2,766 SF	BUSINESS	200	12
ELEC/IT	179 SF	ASSEMBLY	200	0
MECH	793 SF	MECHANICAL	300	3
MUSEUM	7,024 SF	ASSEMBLY	30	244
LEVEL 4 MEZZ (60'-6")	10,763 SF			259
LEVEL 5 (73'-0")				
CORRIDOR 1	294 SF	ASSEMBLY	150	2
CORRIDOR 2	337 SF	ASSEMBLY	150	3
ELEC	160 SF	MECHANICAL	200	1
EVENT SPACE	13,245 SF	ASSEMBLY	15	765
EXT. CORR. 1	758 SF	CIRCULATION	150	6
EXT. CORR. 2	132 SF	CIRCULATION	150	1
EXT. CORR. 3	270 SF	CIRCULATION	150	2
GATHERING AREA	1,012 SF	ASSEMBLY	15	68
JANITOR	18 SF	STORAGE	300	1
KITCHEN	3,319 SF	MECHANICAL	200	19
STORAGE 1	1,206 SF	STORAGE	300	5
STORAGE 2	946 SF	STORAGE	300	4
LEVEL 5 (73'-0")	21,698 SF			877
LEVEL 05 MEZZ (85'-6")				
OFFICES	7,972 SF	BUSINESS	150	54
LEVEL 05 MEZZ (85'-6")	7,972 SF			54
LEVEL 06 (98'-0")				
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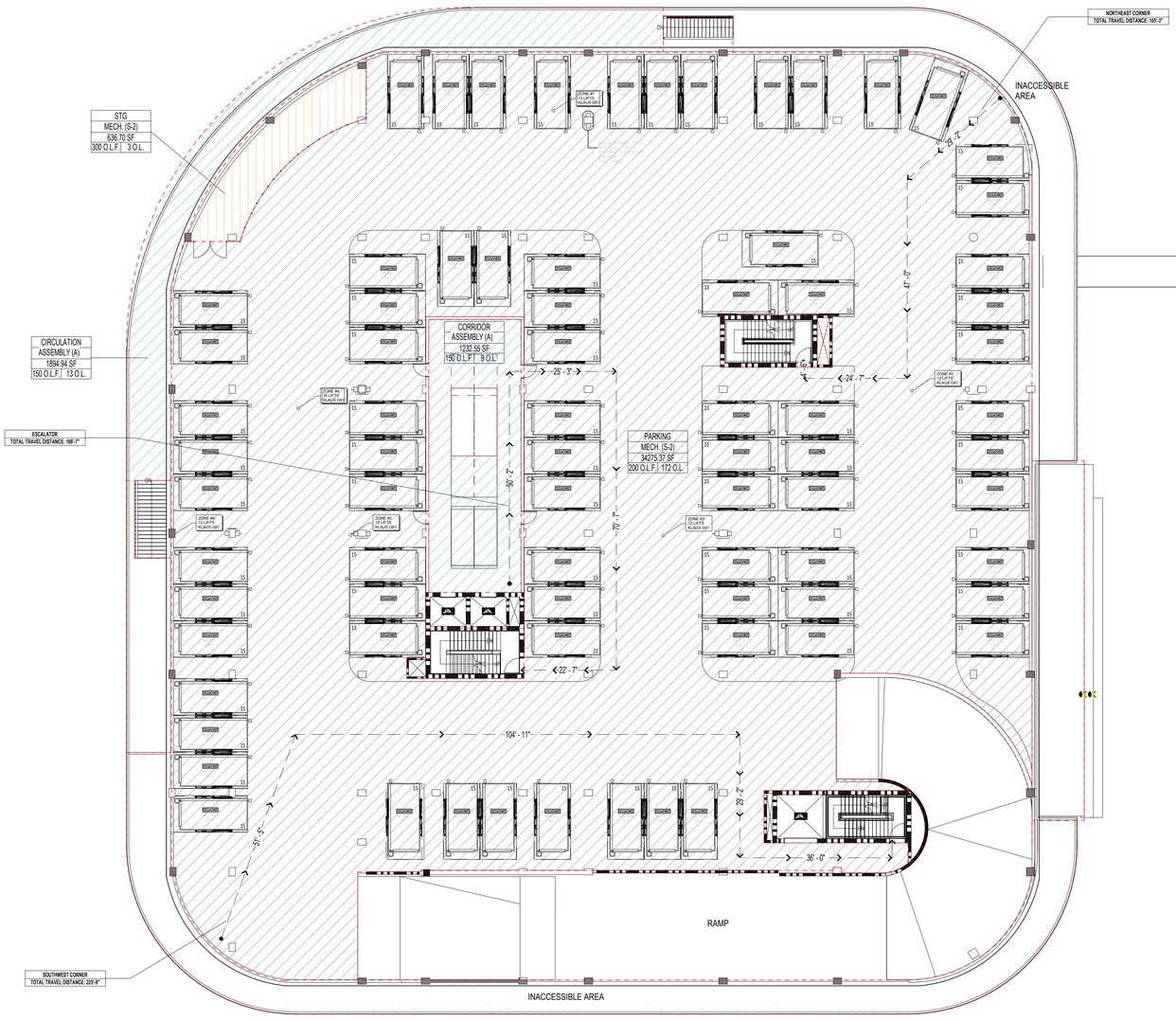
CORR.	236 SF	ASSEMBLY	150	0
ELEC	160 SF	MECHANICAL	300	1
KITCHEN	604 SF	MECHANICAL	200	4
PANTRY	220 SF	STORAGE	300	1
PRIVATE DINING	374 SF	ASSEMBLY	15	25
RESTAURANT	3,284 SF	ASSEMBLY	15	214
TERRACE	3,027 SF	ASSEMBLY	15	202
VEST.	263 SF	ASSEMBLY	15	18
LEVEL 06 (98'-0")	8,231 SF			467
Grand total	174,016 SF			3531



1 WEST BLDG - LS - LEVEL 2 (20'-0")

1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME / XXX / X,XXX SF / XXX | X — AREA NUMBER, AREA USE, AREA, OCCUPANT LOAD, OCCUPANT FACTOR

DOOR TAG — DOOR NUMBER, OCCUPANT MAX. CAPACITY, OCCUPANT LOAD FACTOR, NO. OCCUPANTS LOAD (ACTUAL), DOOR CLEAR WIDTH

STAIR TAG — STAIR NUMBER, OCCUPANT MAX. CAPACITY, OCCUPANT LOAD FACTOR, NO. OCCUPANTS LOAD (ACTUAL), STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL

1-HOUR RATED WALL

1 1/2-HOUR RATED WALL

2-HOUR RATED WALL

3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:
1. SEE PARTITION SCHEDULE FOR ADDITIONAL INFORMATION.
2. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. FIRE RATING FOR PARTITIONS WILL CONTINUE ALONG DOOR OPENINGS THAT ARE IN BETWEEN THE FIRE RATED PARTITIONS.
4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

- ASSEMBLY
- MECHANICAL
- PARKING
- STORAGE

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
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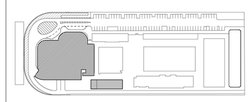
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LIFE SAFETY - LEVEL 02

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET
A1-006

CAM 23-0723
Exhibit 1M
Page 29 of 169

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ROOM OCCUPANCY SCHEDULE				
NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
Not Placed				
CIRCULATION	0 SF		150	7
IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
CANTEEN	371 SF	STORAGE	300	2
CORR.	198 SF	ASSEMBLY	150	2
DRYLAND TRAINING	2,551 SF	ASSEMBLY	50	52
ELEC PUMP ROOM	81 SF	MECHANICAL	300	1
ELEC.	312 SF	MECHANICAL	200	2
FIRE COMMAND CENTER	217 SF	MECHANICAL	150	2
FIRE PUMP ROOM	144 SF	MECHANICAL	200	1
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POOL EQUIP.	308 SF	STORAGE	200	2
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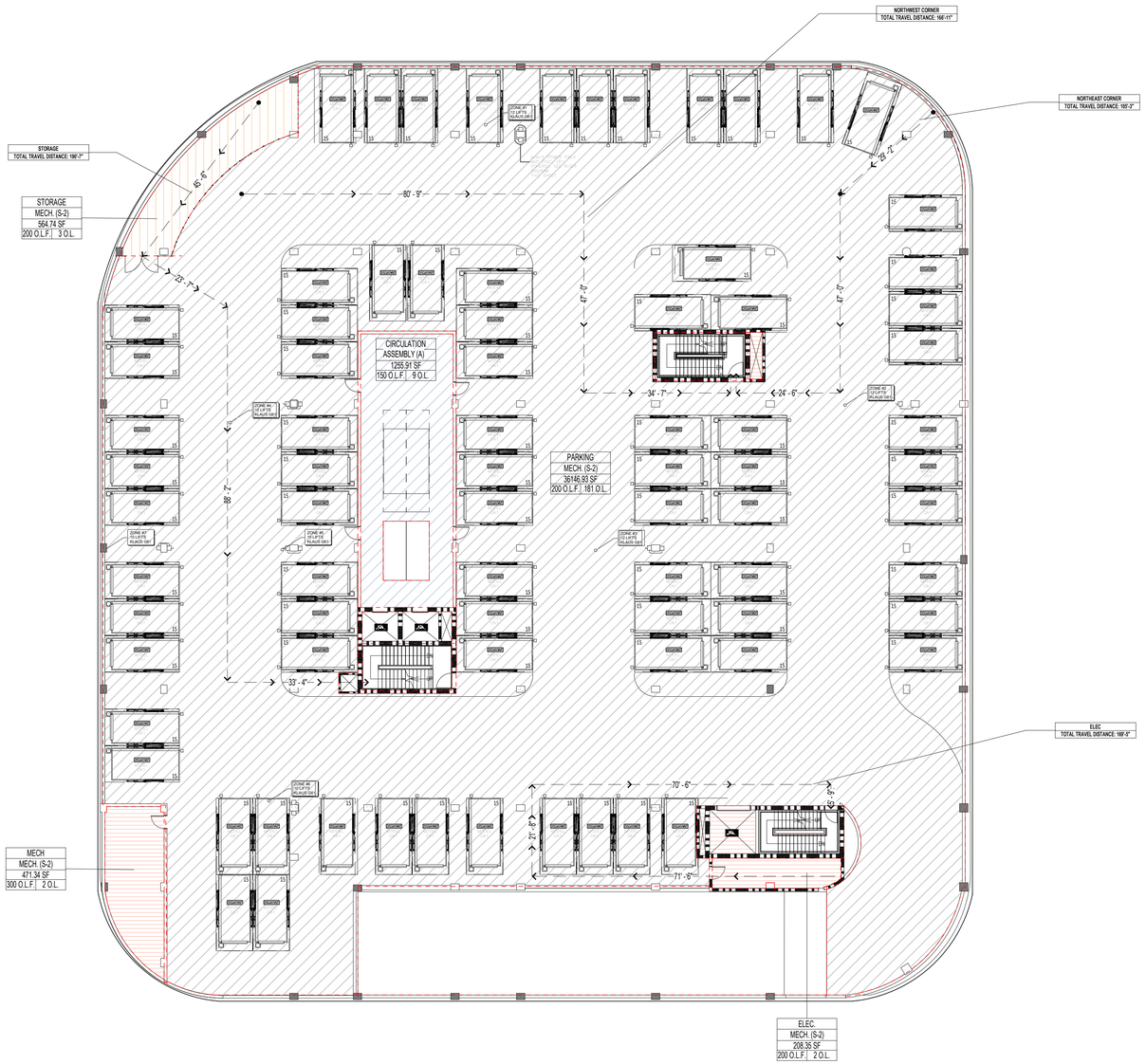

1 WEST BLDG - LS - LEVEL 3 (34'-0")

1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME — AREA NUMBER
XXX — AREA USE
X,XXX SF — AREA
XXX | X — OCCUPANT LOAD
OCCUPANT FACTOR

DOOR TAG

DOOR_1 — DOOR NUMBER
36" XXX — OCCUPANT MAX. CAPACITY
NOL XXX — OCCUPANT LOAD FACTOR
NOA XXX — NO. OCCUPANTS LOAD (ACTUAL)
DOOR CLEAR WIDTH

STAIR TAG

STAIR_01 — STAIR NUMBER
XXX — OCCUPANT MAX. CAPACITY
XXX | XXX — OCCUPANT LOAD FACTOR
NOL | NOA — NO. OCCUPANTS LOAD (ACTUAL)
XXX — STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL
1-HOUR RATED WALL
1 1/2-HOUR RATED WALL
2-HOUR RATED WALL
3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:
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2. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. FIRE RATING FOR PARTITIONS WILL CONTINUE ALONG DOOR OPENINGS THAT ARE IN BETWEEN THE FIRE RATED PARTITIONS.
4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

ASSEMBLY
MECHANICAL
PARKING
STORAGE

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
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FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
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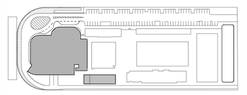
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△ DESCRIPTION DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LIFE SAFETY - LEVEL 03

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET
A1-007

8/26/2022 5:23:56 PM

ROOM OCCUPANCY SCHEDULE				
NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
Not Placed				
CIRCULATION	0 SF		150	7
IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
CANTEEN	371 SF	STORAGE	300	2
CORR.	198 SF	ASSEMBLY	150	2
DRYLAND TRAINING	2,551 SF	ASSEMBLY	50	52
ELEC PUMP ROOM	81 SF	MECHANICAL	300	1
ELEC.	312 SF	MECHANICAL	200	2
FIRE COMMAND CENTER	217 SF	MECHANICAL	150	2
FIRE PUMP ROOM	144 SF	MECHANICAL	200	1
GIFT SHOP	1,659 SF	MERCANTILE	15	113
IT	261 SF	MECHANICAL	200	1
JANITOR 1	34 SF	STORAGE	200	1
JANITOR 2	30 SF	STORAGE	200	1
KITCHEN	438 SF	STORAGE	200	2
LOADING	843 SF	LOADING	300	3
LOBBY 1	2,038 SF	ASSEMBLY	15	142
LOBBY 2	738 SF	ASSEMBLY	15	50
MECH	778 SF	MECHANICAL	200	3
OFFICE	217 SF	BUSINESS	150	5
POOL	921 SF	ASSEMBLY	50	19
POOL DECK	5,016 SF	ASSEMBLY	200	26
POOL EQUIP.	308 SF	STORAGE	200	2
STORAGE 1	458 SF	STORAGE	300	2
STORAGE 2	371 SF	STORAGE	300	2
STORAGE 3	240 SF	STORAGE	200	2
VESTIBULE	264 SF	ASSEMBLY	15	18
LEVEL 1 (0'-0")	20,093 SF			561
LEVEL 2 (20'-0")				
CIRCULATION	1,895 SF	ASSEMBLY	150	13
CORRIDOR	1,233 SF	ASSEMBLY	150	9
PARKING	34,275 SF	PARKING	200	172
STG	637 SF	STORAGE	300	4
LEVEL 2 (20'-0")	38,040 SF			198
LEVEL 3 (34'-0")				
CIRCULATION	1,256 SF	ASSEMBLY	150	9
ELEC.	208 SF	MECHANICAL	200	1
MECH	471 SF	MECHANICAL	300	2
PARKING	36,147 SF	PARKING	200	181
STORAGE	565 SF	STORAGE	200	3
LEVEL 3 (34'-0")	38,647 SF			196
LEVEL 4(48'-0")				
COLLECTIONS	636 SF	STORAGE	300	3
CONFERENCE	210 SF	BUSINESS	15	5
CORR. 1	1,052 SF	ASSEMBLY	150	0
CORR. 2	626 SF	ASSEMBLY	150	5
ELEC/ IT	199 SF	MECHANICAL	200	0
EXT. CORR.	5,907 SF	CIRCULATION	150	99
GATHERING AREA	824 SF	ASSEMBLY	15	73
JAN.	51 SF	ASSEMBLY	200	0
MUSEUM	11,133 SF	ASSEMBLY	30	111
OFFICE SUITE	1,504 SF	BUSINESS	150	30
PRE-FUNCTION	636 SF	ASSEMBLY	7	91
STG 1	386 SF	ASSEMBLY	300	2
STG 2	1,218 SF	STORAGE	300	5
STORAGE	76 SF	STORAGE	300	1
THEATER	1,273 SF	ASSEMBLY	9.8	130
VIP ROOM	2,843 SF	ASSEMBLY	15	213
LEVEL 4(48'-0")	28,574 SF			768
LEVEL 4 MEZZ (60'-6")				
BUSINESS	2,766 SF	BUSINESS	200	12
ELEC/IT	179 SF	ASSEMBLY	200	0
MECH	793 SF	MECHANICAL	300	3
MUSEUM	7,024 SF	ASSEMBLY	30	244
LEVEL 4 MEZZ (60'-6")	10,763 SF			259
LEVEL 5 (73'-0")				
CORRIDOR 1	294 SF	ASSEMBLY	150	2
CORRIDOR 2	337 SF	ASSEMBLY	150	3
ELEC	160 SF	MECHANICAL	200	1
EVENT SPACE	13,245 SF	ASSEMBLY	15	765
EXT. CORR. 1	758 SF	CIRCULATION	150	6
EXT. CORR. 2	132 SF	CIRCULATION	150	1
EXT. CORR. 3	270 SF	CIRCULATION	150	2
GATHERING AREA	1,012 SF	ASSEMBLY	15	68
JANITOR	18 SF	STORAGE	300	1
KITCHEN	3,319 SF	MECHANICAL	200	19
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STORAGE 2	946 SF	STORAGE	300	4
LEVEL 5 (73'-0")	21,698 SF			877
LEVEL 05 MEZZ (85'-6")				
OFFICES	7,972 SF	BUSINESS	150	54
LEVEL 05 MEZZ (85'-6")	7,972 SF			54
LEVEL 06 (98'-0")				
BAR	62 SF	ASSEMBLY	100	2
CORR.	236 SF	ASSEMBLY	150	0
ELEC	160 SF	MECHANICAL	300	1
KITCHEN	604 SF	MECHANICAL	200	4
PANTRY	220 SF	STORAGE	300	1
PRIVATE DINING	374 SF	ASSEMBLY	15	25
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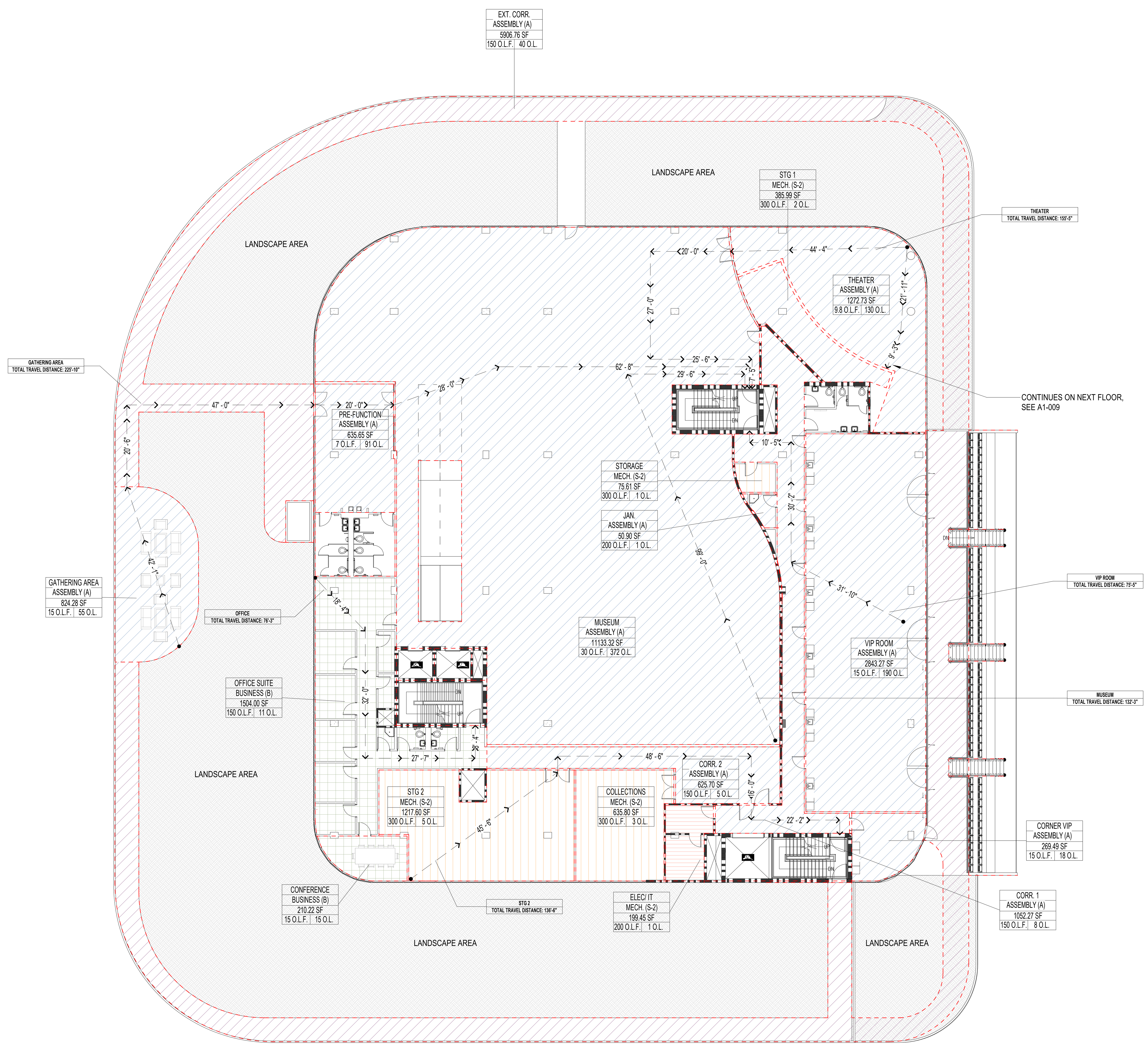
TERRACE	3,027 SF	ASSEMBLY	15	202
VEST.	263 SF	ASSEMBLY	15	18
LEVEL 06 (98'-0")	8,231 SF			467
Grand total	174,016 SF			3531



1 WEST BLDG - LS - LEVEL 4(48'-0")

1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME — AREA NUMBER
XXX — AREA USE
X,XXX SF — AREA
XXX | X — OCCUPANT LOAD
OCCUPANT FACTOR

DOOR TAG

DOOR: 1i — DOOR NUMBER
36" XXX — OCCUPANT MAX. CAPACITY
ACTL. ALLOW. — OCCUPANT LOAD FACTOR
100 XXX — NO. OCCUPANTS LOAD (ACTUAL)
DOOR CLEAR WIDTH

STAIR TAG

STAIR No. — STAIR NUMBER
XXX — OCCUPANT MAX. CAPACITY
XXX 0.00 — OCCUPANT LOAD FACTOR
ACTL. XXX — NO. OCCUPANTS LOAD (ACTUAL)
STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL

1-HOUR RATED WALL

1 1/2-HOUR RATED WALL

2-HOUR RATED WALL

3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

S_2 S_2 S_2 S_2 SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

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4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

ASSEMBLY

BUSINESS

CIRCULATION

MECHANICAL

STORAGE

ARQUITECTONICA

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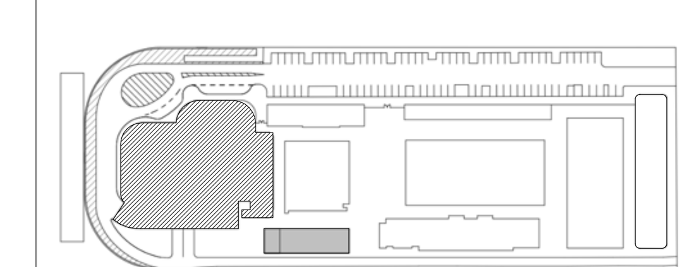
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

LIFE SAFETY - LEVEL 04

PROJECT NUMBER: 010326.000

DATE: 05/04/22

SCALE: 1/16" = 1'-0"

SHEET

A1-008

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8/26/2022 5:24:01 PM

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Not Placed				
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IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
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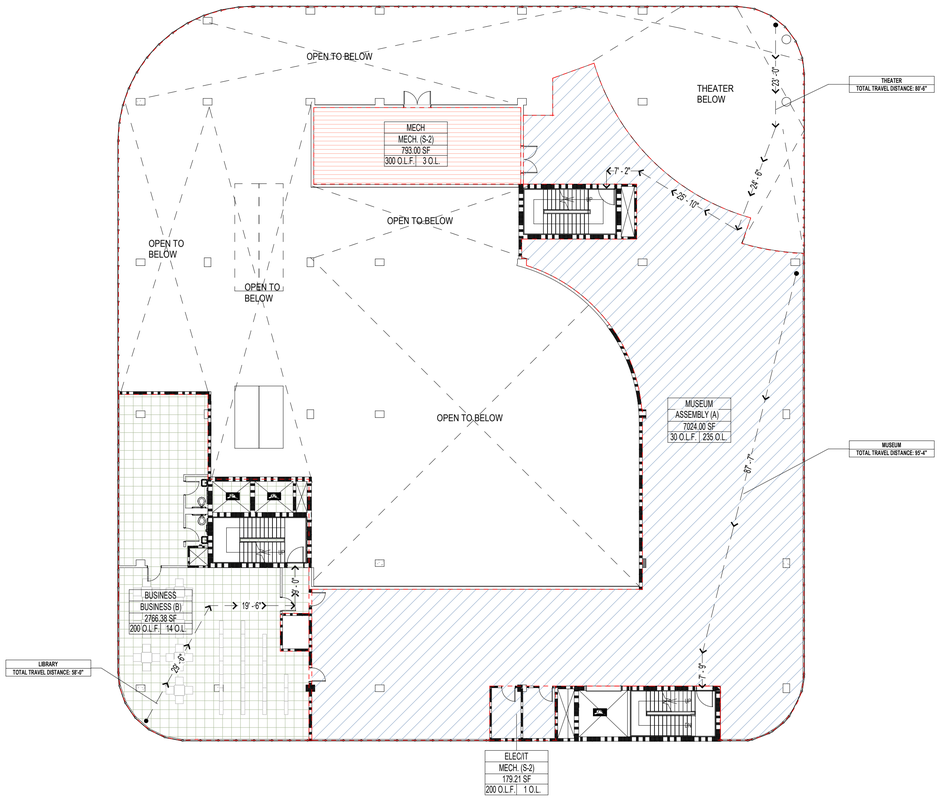

1 WEST BLDG - LS - LEVEL 4 MEZZ (60'-6")

1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME — AREA NUMBER
XXX — AREA USE
X,XXX SF — AREA
XXX | X — OCCUPANT LOAD
OCCUPANT FACTOR

DOOR TAG

DOOR NUMBER
OCCUPANT MAX. CAPACITY
OCCUPANT LOAD FACTOR
NO. OCCUPANTS LOAD (ACTUAL)
DOOR CLEAR WIDTH

STAIR TAG

STAIR NUMBER
OCCUPANT MAX. CAPACITY
OCCUPANT LOAD FACTOR
NO. OCCUPANTS LOAD (ACTUAL)
STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL
1-HOUR RATED WALL
1 1/2-HOUR RATED WALL
2-HOUR RATED WALL
3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:
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LIFE SAFETY LEGEND

ASSEMBLY
BUSINESS
MECHANICAL

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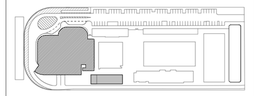
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LIFE SAFETY - LEVEL 04 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET
A1-009

CAM 23-0723
Exhibit 1M
Page 32 of 169

8/26/2022 5:24:10 PM

ROOM OCCUPANCY SCHEDULE

NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
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PRE-FUNCTION	636 SF	ASSEMBLY	7	91
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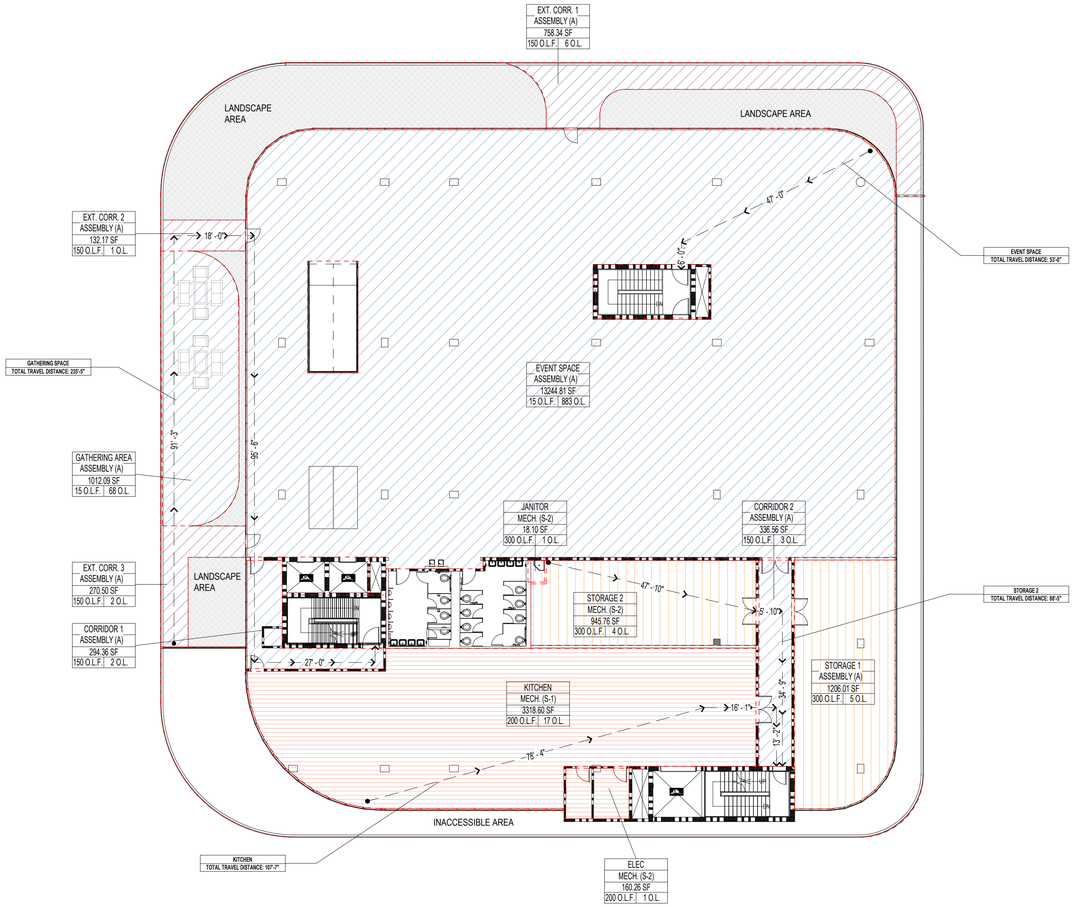
STG 2	1,218 SF	STORAGE	300	5
STORAGE	76 SF	STORAGE	300	1
THEATER	1,273 SF	ASSEMBLY	9.8	130
VIP ROOM	2,843 SF	ASSEMBLY	15	213
LEVEL 4(48'-0")	28,574 SF			768
LEVEL 4 MEZZ (60'-6")				
BUSINESS	2,766 SF	BUSINESS	200	12
ELEC/IT	179 SF	ASSEMBLY	200	0
MECH	793 SF	MECHANICAL	300	3
MUSEUM	7,024 SF	ASSEMBLY	30	244
LEVEL 4 MEZZ (60'-6")	10,763 SF			259
LEVEL 5 (73'-0")				
CORRIDOR 1	294 SF	ASSEMBLY	150	2
CORRIDOR 2	337 SF	ASSEMBLY	150	3
ELEC	160 SF	MECHANICAL	200	1
EVENT SPACE	13,245 SF	ASSEMBLY	15	765
EXT. CORR. 1	758 SF	CIRCULATION	150	6
EXT. CORR. 2	132 SF	CIRCULATION	150	1
EXT. CORR. 3	270 SF	CIRCULATION	150	2
GATHERING AREA	1,012 SF	ASSEMBLY	15	68
JANITOR	18 SF	STORAGE	300	1
KITCHEN	3,319 SF	MECHANICAL	200	19
STORAGE 1	1,206 SF	STORAGE	300	5
STORAGE 2	946 SF	STORAGE	300	4
LEVEL 5 (73'-0")	21,698 SF			877
LEVEL 05 MEZZ (85'-6")				
OFFICES	7,972 SF	BUSINESS	150	54
LEVEL 05 MEZZ (85'-6")	7,972 SF			54
LEVEL 06 (98'-0")				
BAR	62 SF	ASSEMBLY	100	2
CORR.	236 SF	ASSEMBLY	150	0
ELEC	160 SF	MECHANICAL	300	1
KITCHEN	604 SF	MECHANICAL	200	4
PANTRY	220 SF	STORAGE	300	1
PRIVATE DINING	374 SF	ASSEMBLY	15	25
RESTAURANT	3,284 SF	ASSEMBLY	15	214
TERRACE	3,027 SF	ASSEMBLY	15	202
VEST.	263 SF	ASSEMBLY	15	18
LEVEL 06 (98'-0")	8,231 SF			467
Grand total	174,016 SF			3531



1 WEST BLDG - LS - LEVEL 5 (73'-0")

1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME — AREA NUMBER
XXX — AREA USE
X,XXX SF — AREA
XXX | X — OCCUPANT LOAD
OCCUPANT FACTOR

DOOR TAG

DOOR: 5 — DOOR NUMBER
36" | XXX — OCCUPANT MAX. CAPACITY
50% | 50.0% — OCCUPANT LOAD FACTOR
100 | XXX — NO. OCCUPANTS LOAD (ACTUAL)
DOOR CLEAR WIDTH

STAIR TAG

STAIR: XX — STAIR NUMBER
XXX | 0.00 — OCCUPANT MAX. CAPACITY
XXX — OCCUPANT LOAD FACTOR
XXX — NO. OCCUPANTS LOAD (ACTUAL)
STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL
1-HOUR RATED WALL
1 1/2-HOUR RATED WALL
2-HOUR RATED WALL
3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

S_1 S_2 S_3 S_4 — SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:
1. SEE PARTITION SCHEDULE FOR ADDITIONAL INFORMATION.
2. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. FIRE RATING FOR PARTITIONS WILL CONTINUE ALONG DOOR OPENINGS THAT ARE IN BETWEEN THE FIRE RATED PARTITIONS.
4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

ASSEMBLY
CIRCULATION
MECHANICAL
STORAGE

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
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TEL:305.859.0161

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AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LIFE SAFETY - LEVEL 05

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET
A1-010

CAM 23-0723
Exhibit 1M
Page 33 of 169

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8/26/2022 5:24:15 PM

ROOM OCCUPANCY SCHEDULE				
NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
Not Placed				
CIRCULATION	0 SF		150	7
IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
CANTEEN	371 SF	STORAGE	300	2
CORR.	198 SF	ASSEMBLY	150	2
DRYLAND TRAINING	2,551 SF	ASSEMBLY	50	52
ELEC PUMP ROOM	81 SF	MECHANICAL	300	1
ELEC.	312 SF	MECHANICAL	200	2
FIRE COMMAND CENTER	217 SF	MECHANICAL	150	2
FIRE PUMP ROOM	144 SF	MECHANICAL	200	1
GIFT SHOP	1,659 SF	MERCANTILE	15	113
IT	261 SF	MECHANICAL	200	1
JANITOR 1	34 SF	STORAGE	200	1
JANITOR 2	30 SF	STORAGE	200	1
KITCHEN	438 SF	STORAGE	200	2
LOADING	843 SF	LOADING	300	3
LOBBY 1	2,038 SF	ASSEMBLY	15	142
LOBBY 2	738 SF	ASSEMBLY	15	50
MECH	778 SF	MECHANICAL	200	3
OFFICE	217 SF	BUSINESS	150	5
POOL	921 SF	ASSEMBLY	50	19
POOL DECK	5,016 SF	ASSEMBLY	200	26
POOL EQUIP.	308 SF	STORAGE	200	2
STORAGE 1	458 SF	STORAGE	300	2
STORAGE 2	371 SF	STORAGE	300	2
STORAGE 3	240 SF	STORAGE	200	2
VESTIBULE	264 SF	ASSEMBLY	15	18
LEVEL 1 (0'-0")	20,093 SF			561
LEVEL 2 (20'-0")				
CIRCULATION	1,895 SF	ASSEMBLY	150	13
CORRIDOR	1,233 SF	ASSEMBLY	150	9
PARKING	34,275 SF	PARKING	200	172
STG	637 SF	STORAGE	300	4
LEVEL 2 (20'-0")	38,040 SF			198
LEVEL 3 (34'-0")				
CIRCULATION	1,256 SF	ASSEMBLY	150	9
ELEC.	208 SF	MECHANICAL	200	1
MECH	471 SF	MECHANICAL	300	2
PARKING	36,147 SF	PARKING	200	181
STORAGE	565 SF	STORAGE	200	3
LEVEL 3 (34'-0")	38,647 SF			196
LEVEL 4(48'-0")				
COLLECTIONS	636 SF	STORAGE	300	3
CONFERENCE	210 SF	BUSINESS	15	5
CORR. 1	1,052 SF	ASSEMBLY	150	0
CORR. 2	626 SF	ASSEMBLY	150	5
ELEC/ IT	199 SF	MECHANICAL	200	0
EXT. CORR.	5,907 SF	CIRCULATION	150	99
GATHERING AREA	824 SF	ASSEMBLY	15	73
JAN.	51 SF	ASSEMBLY	200	0
MUSEUM	11,133 SF	ASSEMBLY	30	111
OFFICE SUITE	1,504 SF	BUSINESS	150	30
PRE-FUNCTION	636 SF	ASSEMBLY	7	91
STG 1	386 SF	ASSEMBLY	300	2
STG 2	1,218 SF	STORAGE	300	5
STORAGE	76 SF	STORAGE	300	1
THEATER	1,273 SF	ASSEMBLY	9.8	130
VIP ROOM	2,843 SF	ASSEMBLY	15	213
LEVEL 4(48'-0")	28,574 SF			768
LEVEL 4 MEZZ (60'-6")				
BUSINESS	2,766 SF	BUSINESS	200	12
ELEC/IT	179 SF	ASSEMBLY	200	0
MECH	793 SF	MECHANICAL	300	3
MUSEUM	7,024 SF	ASSEMBLY	30	244
LEVEL 4 MEZZ (60'-6")	10,763 SF			259
LEVEL 5 (73'-0")				
CORRIDOR 1	294 SF	ASSEMBLY	150	2
CORRIDOR 2	337 SF	ASSEMBLY	150	3
ELEC	160 SF	MECHANICAL	200	1
EVENT SPACE	13,245 SF	ASSEMBLY	15	765
EXT. CORR. 1	758 SF	CIRCULATION	150	6
EXT. CORR. 2	132 SF	CIRCULATION	150	1
EXT. CORR. 3	270 SF	CIRCULATION	150	2
GATHERING AREA	1,012 SF	ASSEMBLY	15	68
JANITOR	18 SF	STORAGE	300	1
KITCHEN	3,319 SF	MECHANICAL	200	19
STORAGE 1	1,206 SF	STORAGE	300	5
STORAGE 2	946 SF	STORAGE	300	4
LEVEL 5 (73'-0")	21,698 SF			877
LEVEL 05 MEZZ (85'-6")				
OFFICES	7,972 SF	BUSINESS	150	54
LEVEL 05 MEZZ (85'-6")	7,972 SF			54
LEVEL 06 (98'-0")				
BAR	62 SF	ASSEMBLY	100	2
CORR.	236 SF	ASSEMBLY	150	0
ELEC	160 SF	MECHANICAL	300	1
KITCHEN	604 SF	MECHANICAL	200	4
PANTRY	220 SF	STORAGE	300	1
PRIVATE DINING	374 SF	ASSEMBLY	15	25
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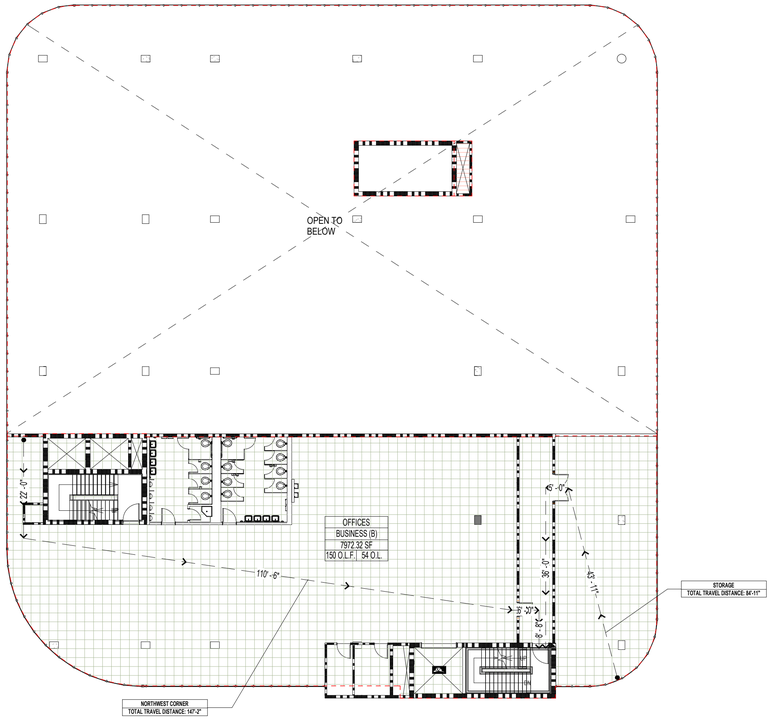
Grand total	174,016 SF			3531



1 WEST BLDG - LS - LEVEL 05 MEZZ (85'-6")

1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME — AREA NUMBER
XXX — AREA USE
X,XXX SF — AREA
XXX | X — OCCUPANT LOAD
OCCUPANT FACTOR

DOOR TAG

DOOR NUMBER
OCCUPANT MAX. CAPACITY
OCCUPANT LOAD FACTOR
NO. OCCUPANTS LOAD (ACTUAL)
DOOR CLEAR WIDTH

STAIR TAG

STAIR NUMBER
OCCUPANT MAX. CAPACITY
OCCUPANT LOAD FACTOR
NO. OCCUPANTS LOAD (ACTUAL)
STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL
1-HOUR RATED WALL
1 1/2-HOUR RATED WALL
2-HOUR RATED WALL
3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

S_1 S_2 S_3 S_4 SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:

1. SEE PARTITION SCHEDULE FOR ADDITIONAL INFORMATION.
2. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. FIRE RATING FOR PARTITIONS WILL CONTINUE ALONG DOOR OPENINGS THAT ARE IN BETWEEN THE FIRE RATED PARTITIONS.
4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

BUSINESS

MECHANICAL

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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SAINT LOUIS, MO, 63127
TEL:618.975.9025

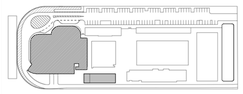
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

LIFE SAFETY - LEVEL 05 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET

A1-011

CAM 23-0723
Exhibit 1M
Page 34 of 169

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8/26/2022 5:24:40 PM

ROOM OCCUPANCY SCHEDULE

NAME	AREA	AREA USE	OCCUPANT LOAD FACTOR	ACTUAL LOAD
Not Placed				
CIRCULATION	0 SF		150	7
IT	0 SF	MECHANICAL		2
OFFICE	0 SF	BUSINESS	50	142
Not Placed	0 SF			151
LEVEL 1 (0'-0")				
CAFE	1,604 SF	ASSEMBLY	15	107
CANTEEN	371 SF	STORAGE	300	2
CORR.	198 SF	ASSEMBLY	150	2
DRYLAND TRAINING	2,551 SF	ASSEMBLY	50	52
ELEC PUMP ROOM	81 SF	MECHANICAL	300	1
ELEC.	312 SF	MECHANICAL	200	2
FIRE COMMAND CENTER	217 SF	MECHANICAL	150	2
FIRE PUMP ROOM	144 SF	MECHANICAL	200	1
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JANITOR 2	30 SF	STORAGE	200	1
KITCHEN	438 SF	STORAGE	200	2
LOADING	843 SF	LOADING	300	3
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LOBBY 2	738 SF	ASSEMBLY	15	50
MECH	778 SF	MECHANICAL	200	3
OFFICE	217 SF	BUSINESS	150	5
POOL	921 SF	ASSEMBLY	50	19
POOL DECK	5,016 SF	ASSEMBLY	200	26
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STORAGE 2	946 SF	STORAGE	300	4
LEVEL 5 (73'-0")	21,698 SF			877
LEVEL 05 MEZZ (85'-6")				
OFFICES	7,972 SF	BUSINESS	150	54
LEVEL 05 MEZZ (85'-6")	7,972 SF			54
LEVEL 06 (98'-0")				
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CORR.	236 SF	ASSEMBLY	150	0
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KITCHEN	604 SF	MECHANICAL	200	4
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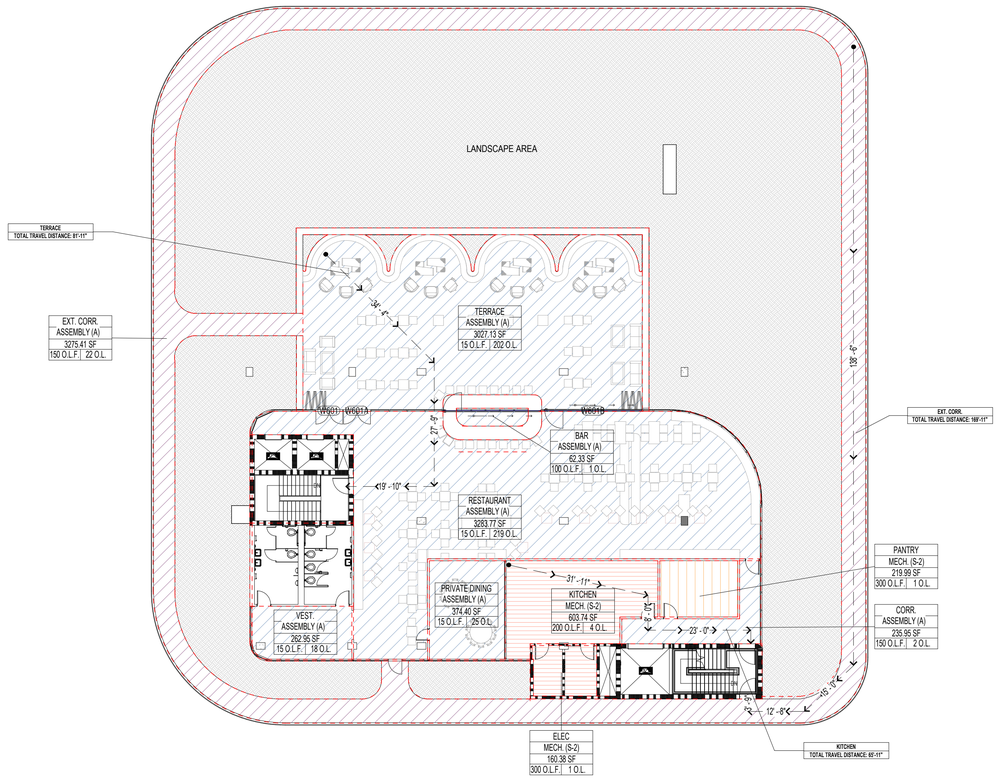

1 WEST BLDG - LS - LEVEL 06 (98'-0")
1/16" = 1'-0"

EGRESS PLAN LEGEND

NAME — AREA NUMBER
XXX — AREA USE
X,XXX SF — AREA
XXX | X — OCCUPANT LOAD
OCCUPANT FACTOR

DOOR TAG
DOOR NUMBER
OCCUPANT MAX. CAPACITY
OCCUPANT LOAD FACTOR
NO. OCCUPANTS LOAD (ACTUAL)
DOOR CLEAR WIDTH

STAIR TAG
STAIR NUMBER
OCCUPANT MAX. CAPACITY
OCCUPANT LOAD FACTOR
NO. OCCUPANTS LOAD (ACTUAL)
STAIR CLEAR WIDTH

PATH OF TRAVEL

FIRE EXTINGUISHER

NON-RATED WALL
1-HOUR RATED WALL
1 1/2-HOUR RATED WALL
2-HOUR RATED WALL
3-HOUR RATED WALL

SMOKE BARRIER/ 2-HOUR FIRE RATING

SPECIAL APPLICATION SPRINKLER AT GLASS, 2-HOUR

NOTES:
1. SEE PARTITION SCHEDULE FOR ADDITIONAL INFORMATION.
2. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
3. FIRE RATING FOR PARTITIONS WILL CONTINUE ALONG DOOR OPENINGS THAT ARE IN BETWEEN THE FIRE RATED PARTITIONS.
4. ALL SHAFTS CONTAINED WITHIN 2HR RATED WALL.

LIFE SAFETY LEGEND

ASSEMBLY
CIRCULATION
MECHANICAL
STORAGE

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
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VERTICAL CONSULTANT:
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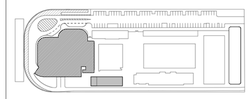
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LIFE SAFETY - LEVEL 06

PROJECT NUMBER: 010326.000
DATE: 05/04/22
SCALE: 1/16" = 1'-0"

SHEET
A1-012

CAM 23-0723
Exhibit 1M
Page 35 of 169

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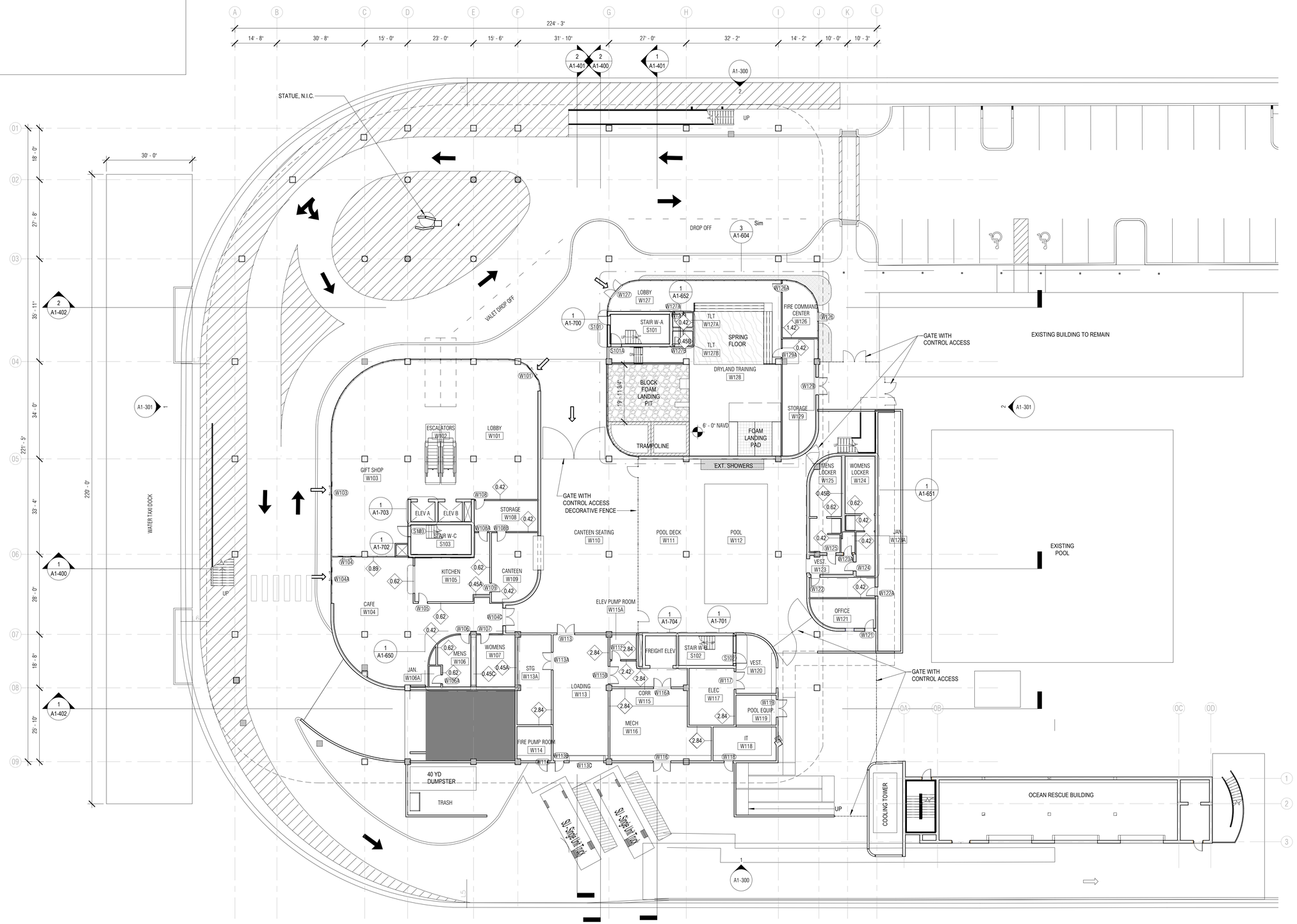


1 WEST BLDG - GROUND FLOOR

1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

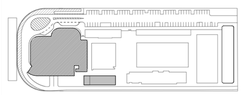
FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

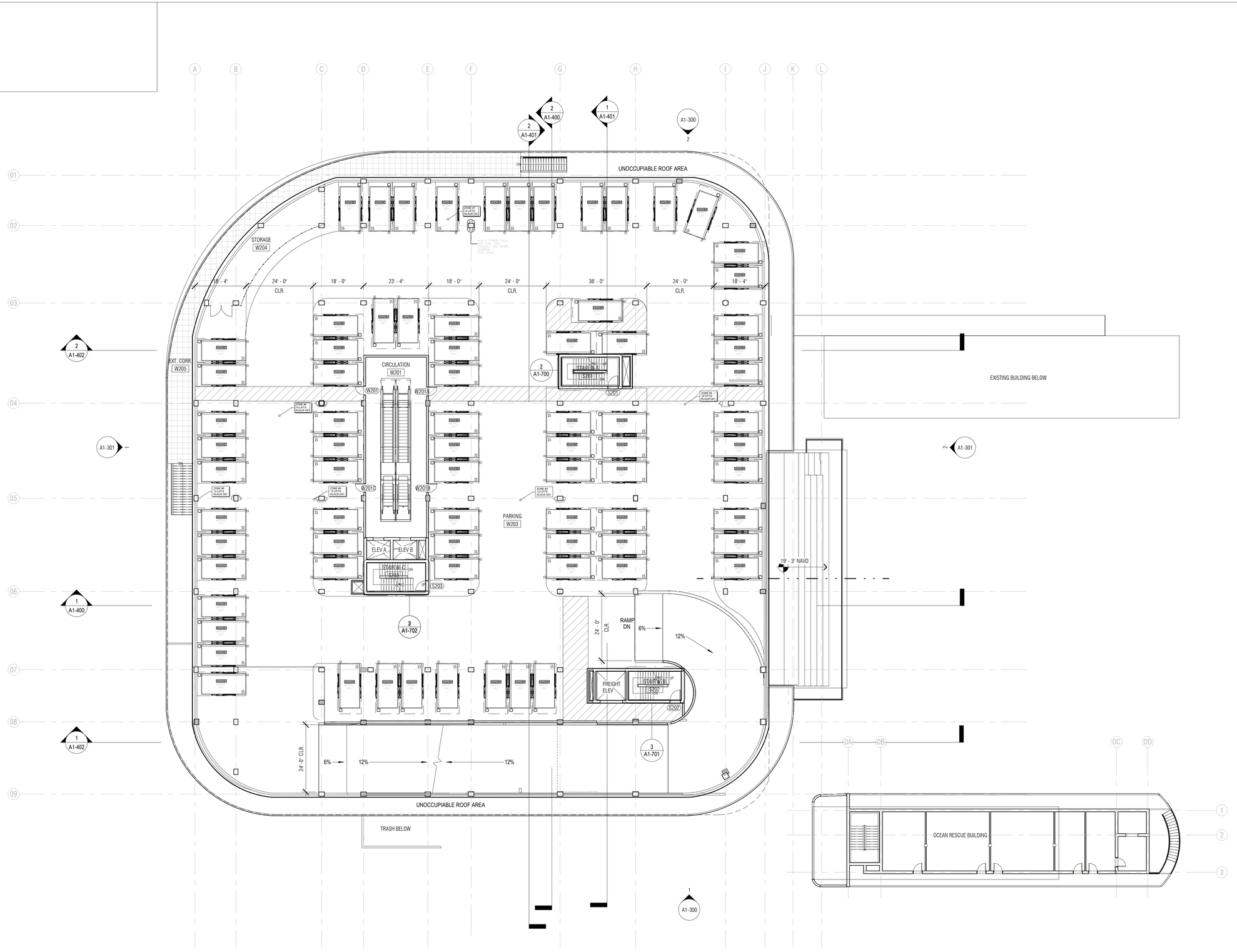
DRAWING TITLE
FLOOR PLAN - LEVEL 01

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
A1-100

CAM 23-0723
Exhibit 1M
Page 36 of 169

8/26/2022 5:57:59 PM



1 WEST BLDG - LEVEL 02

1/16" = 1'-0"

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

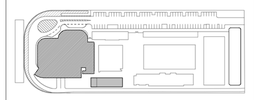
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

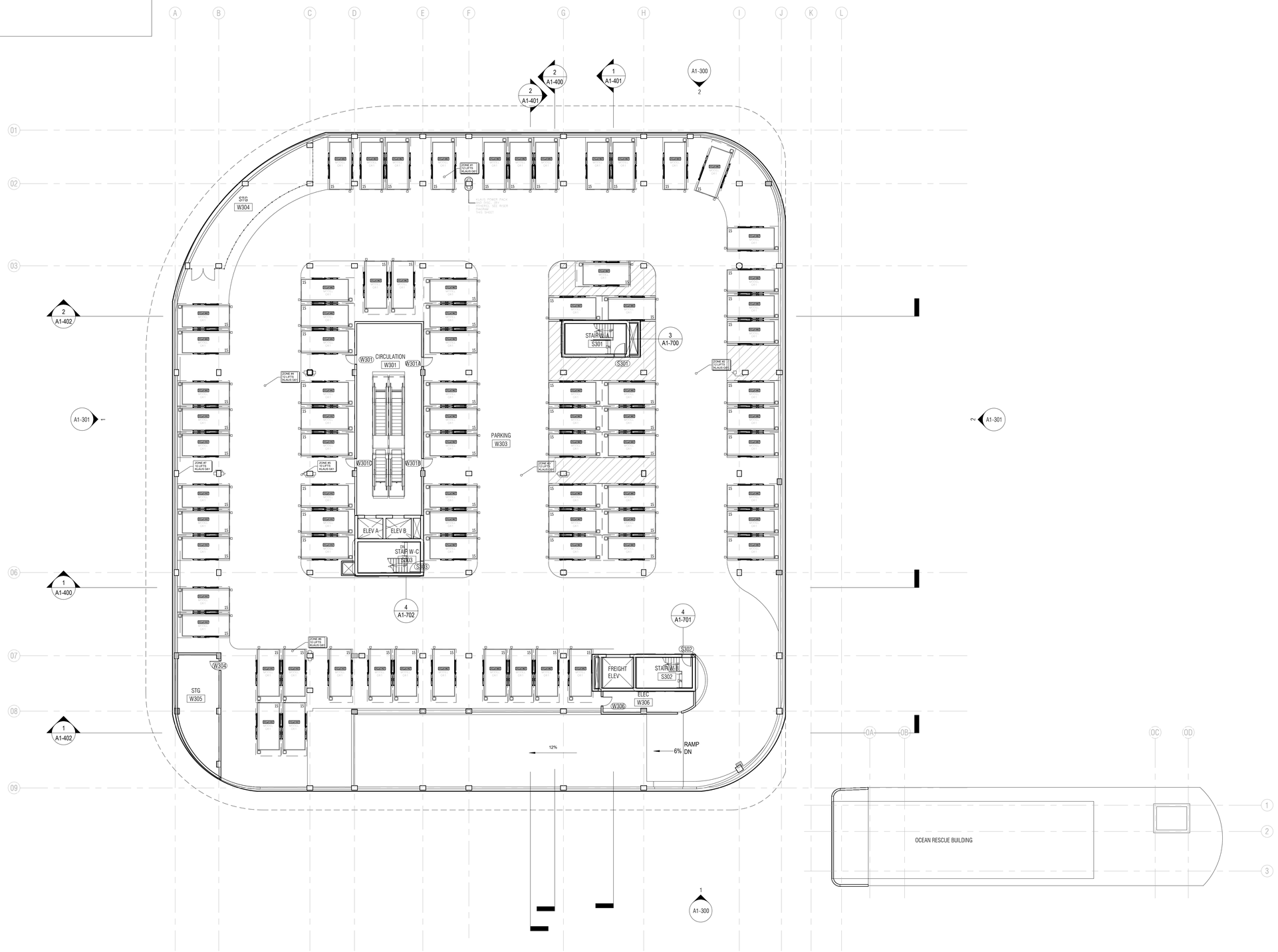
FLOOR PLAN - LEVEL 02

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

A1-101

8/26/2022 5:38:05 PM



1 WEST BLDG - LEVEL 03

1/16" = 1'-0"

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

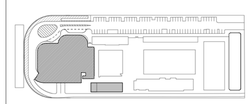
FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

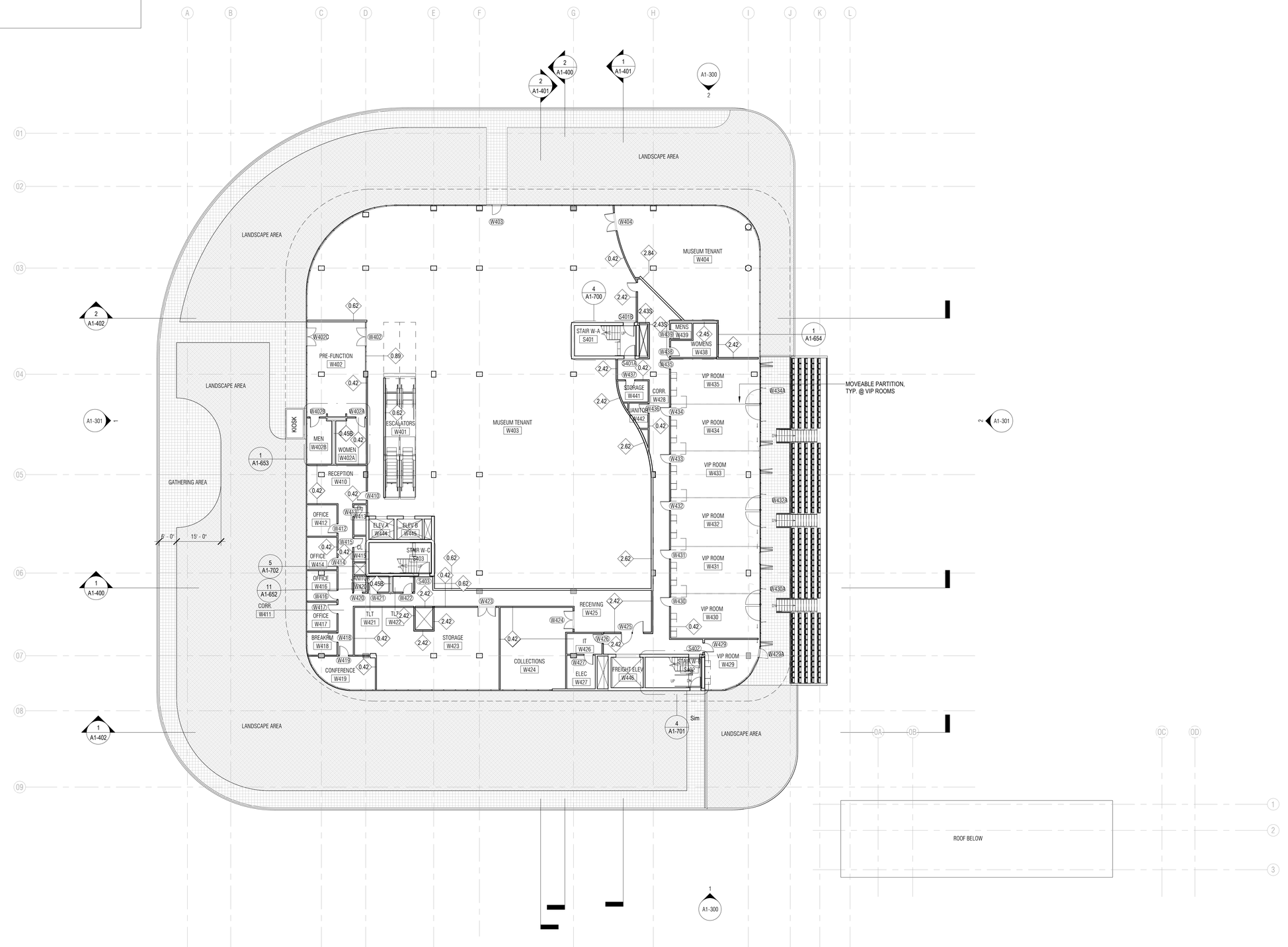
DRAWING TITLE
FLOOR PLAN - LEVEL 03

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
A1-102

CAM 23-0723
Exhibit 1M

8/26/2022 5:58:27 PM



1 WEST BLDG - LEVEL 04

1/16" = 1'-0"

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 04

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
A1-103

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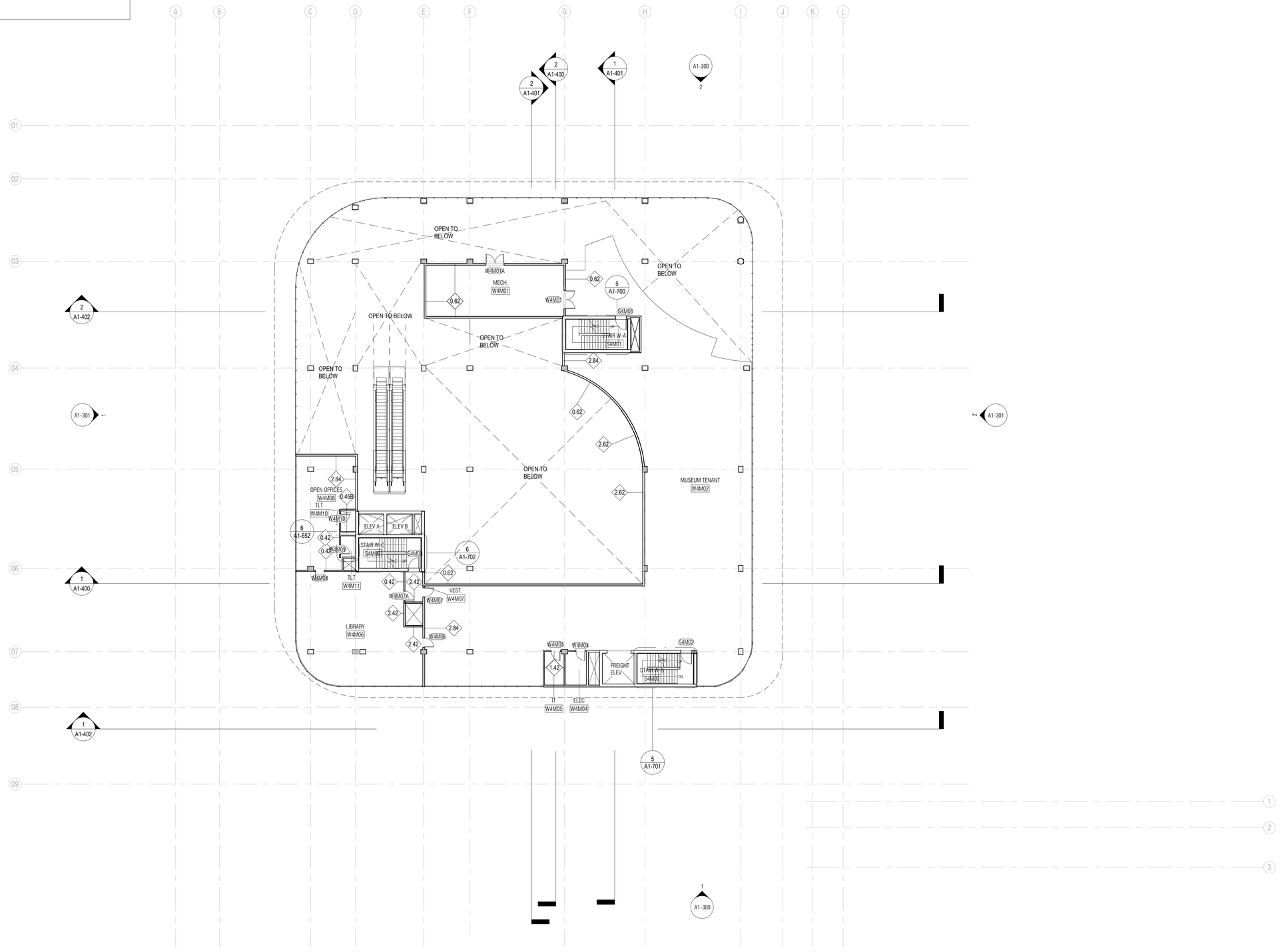

1 WEST BLDG - LEVEL 04 MEZZ.

1/16" = 1'-0"

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

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950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
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COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
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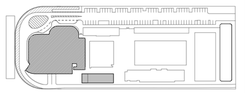
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE

FLOOR PLAN - LEVEL 04 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

A1-104

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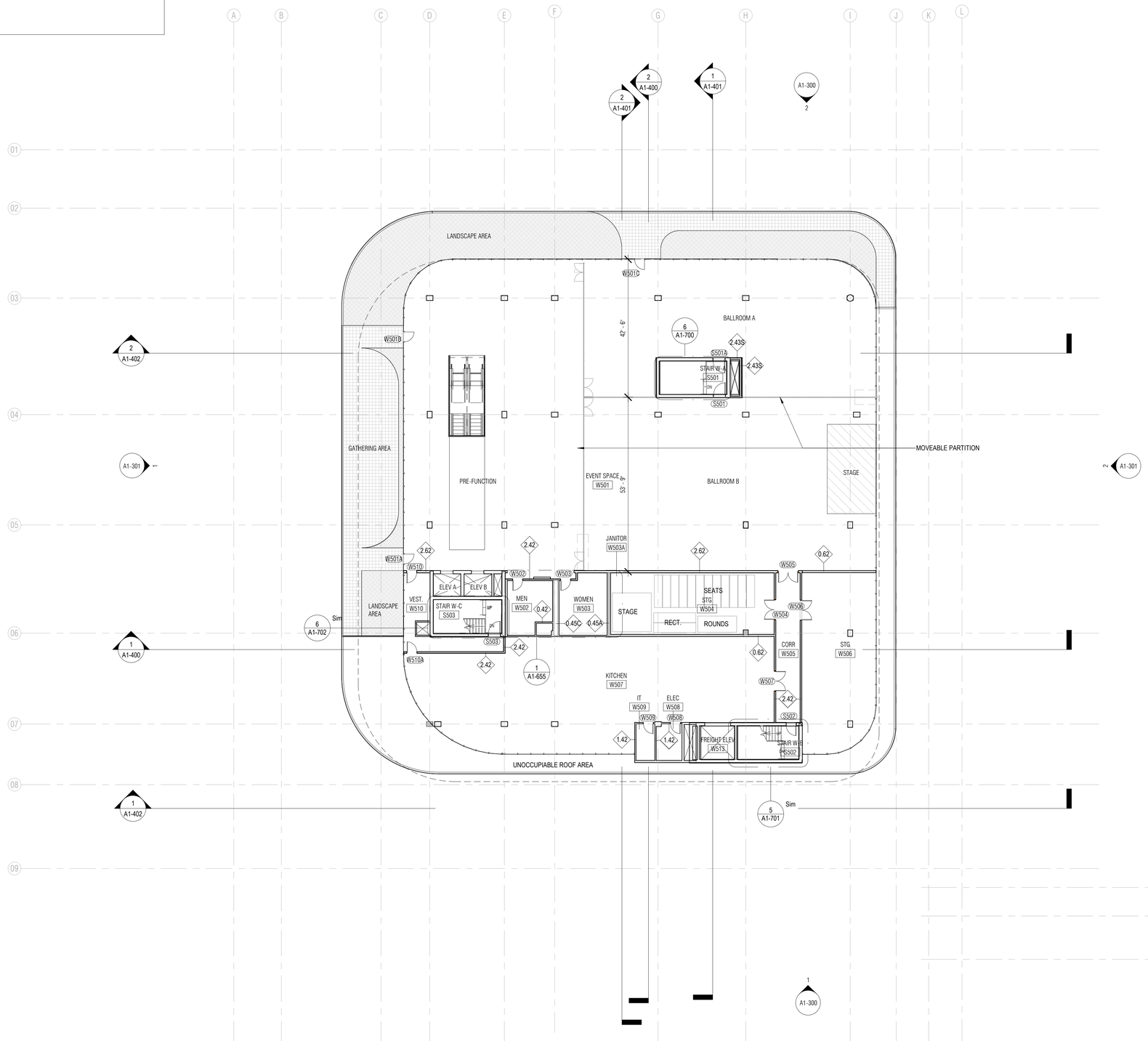

1 WEST BLDG - LEVEL 05

1/16" = 1'-0"

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

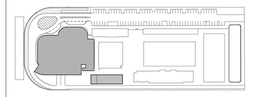
FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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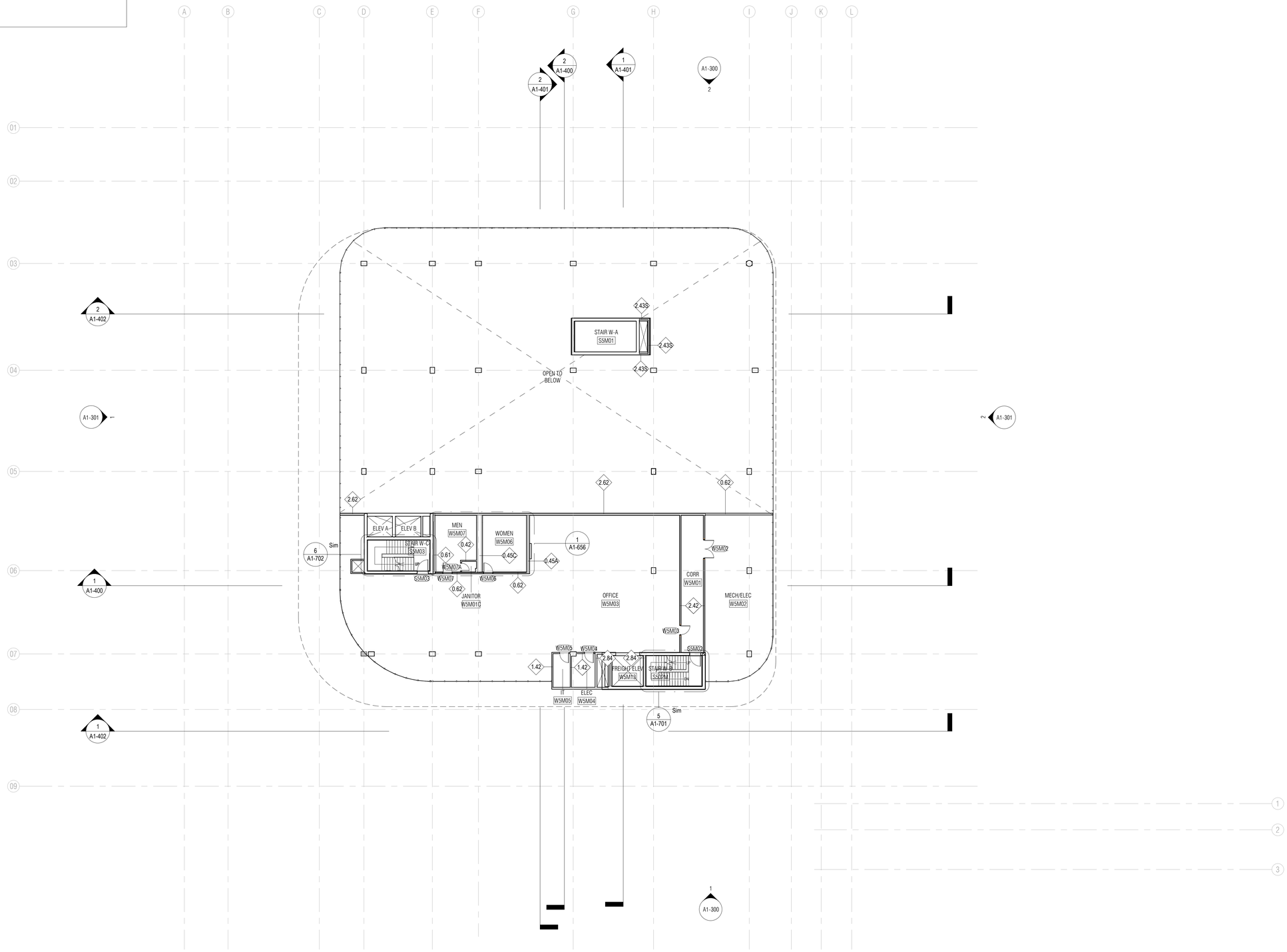
PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 05

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
A1-105

8/26/2022 6:16:01 PM



1 WEST BLDG - LEVEL 05 MEZZ

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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CORAL GABLES, FL, 33134
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SCOOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
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COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

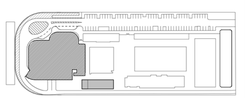
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

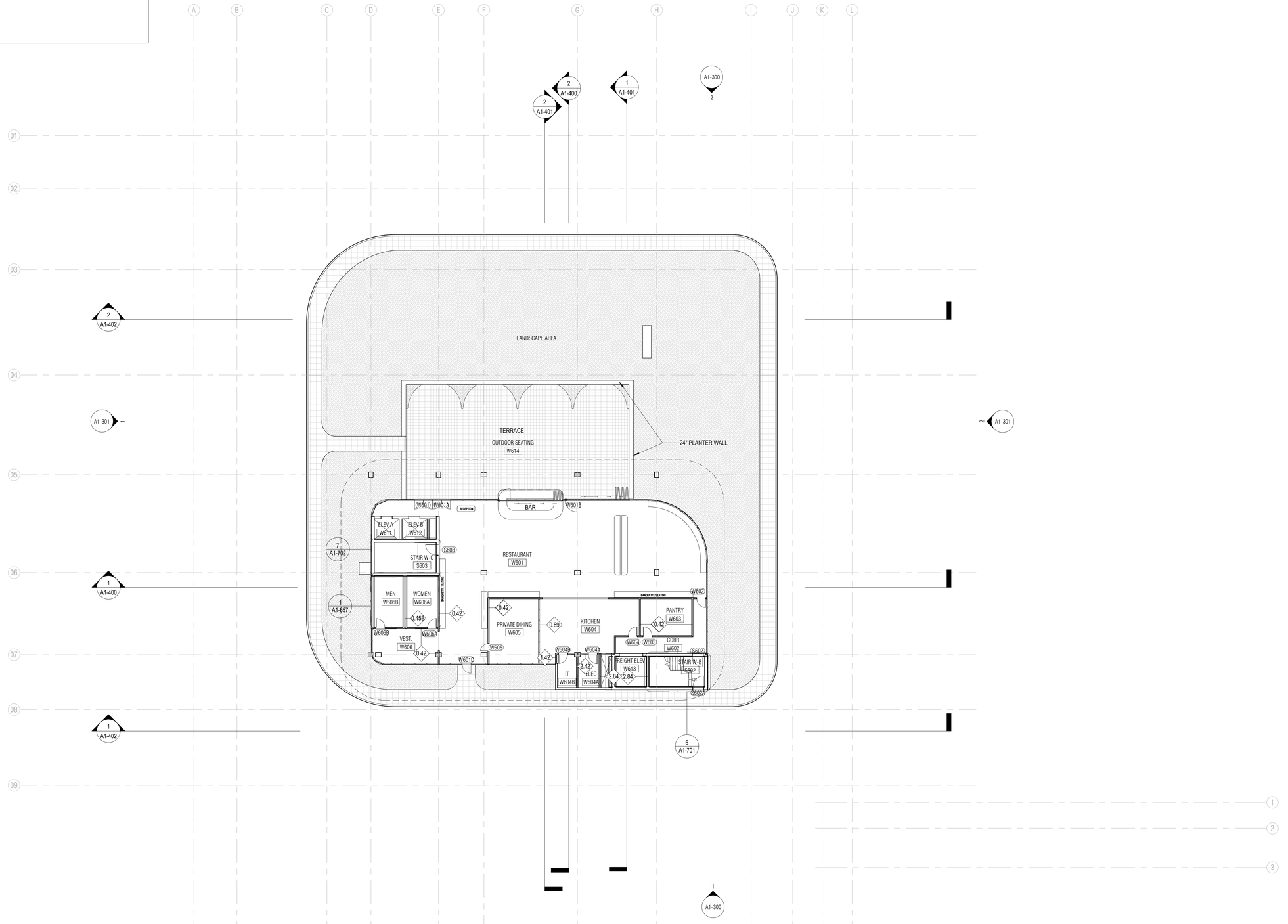
FLOOR PLAN - LEVEL 05 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

A1-106

8/26/2022 5:55:51 PM



1 FLOOR PLAN - LEVEL 06 (RESTAURANT)

1/16" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

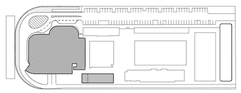
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

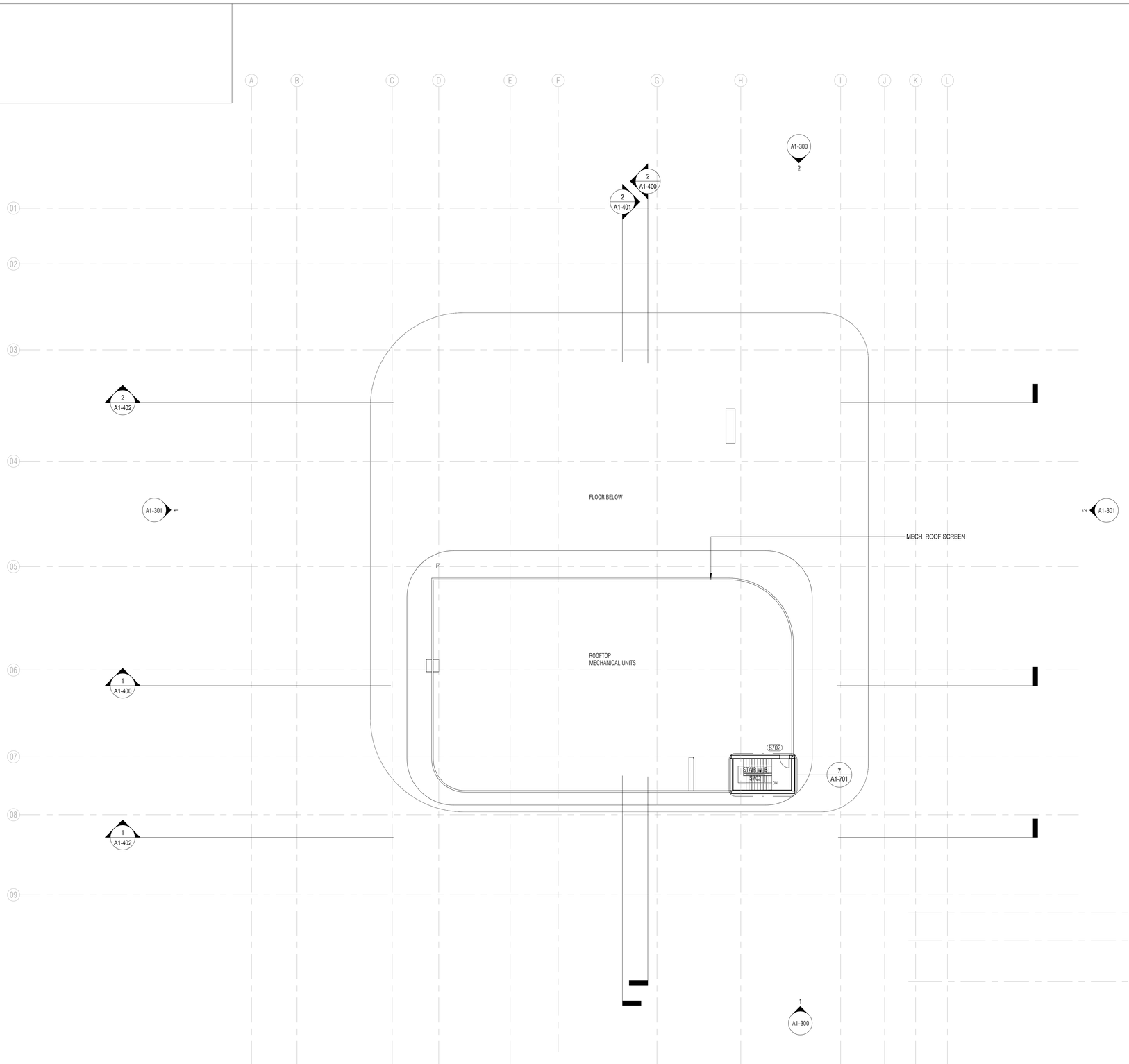
FLOOR PLAN - LEVEL 06

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

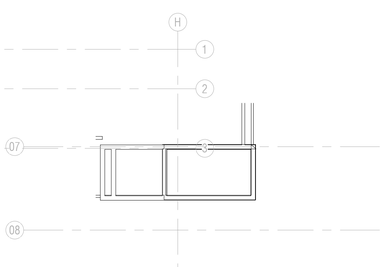
A1-107

8/26/2022 5:18:53 PM



1 WEST BLDG- ROOF PLAN

1/16" = 1'-0"



2 WEST BLDG- STAIR ROOF PLAN

1/16" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

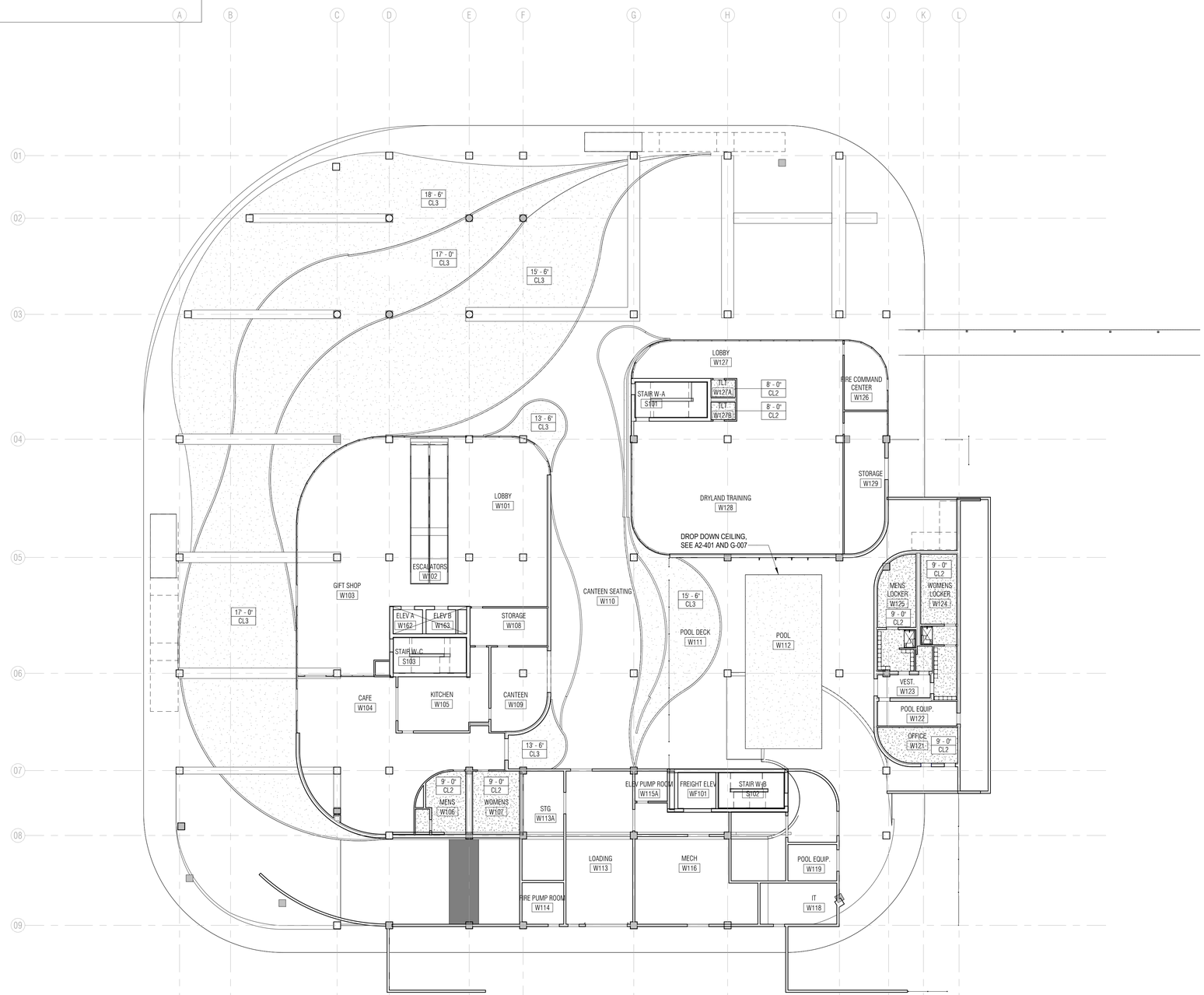
FLOOR PLAN - ROOF

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

A1-108

8/26/2022 5:26:32 PM



NOTE: WHERE NO CEILING IS INDICATED, FLOOR SLAB AND MEP ABOVE SHALL BE EXPOSED

1 RCP - LEVEL 1

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND

SEE A-903 FOR CEILING TYPES AND FIRE RATINGS

HEIGHT A.F.F.

TYPE

CEILING TAG

CLG1: ACT -1

ACT - 2

CLG2: GWB - NOT RATED

GWB - 1 HR RATED

GWB - 2 HR RATED

CLG3: STUCCO

ACOUSTICAL TREATMENT

ACCESS PANEL

STARTING POINT FOR CEILING GRIDS

AV / SECURITY DEVICE LEGEND

(S) SPEAKER (CLG MTD) - SEE AV DRAWINGS AND SPECS

(M) MICROPHONE

(W) WIRELESS ACCESS POINT

(C) SECURITY CAMERA (CLG MTD / WALL MTD) SEE SECURITY DRAWINGS

(MD) MOTION DETECTOR

ROLL DOWN PROJECTION SCREEN

FIRE PROTECTION:

SPRINKLER, SEE FP DWGS FOR TYPE

EXIT SIGNS (WALL MTD) *SHADED SURFACE INDICATES LOCATION OF LETTERING. ARROW SHOWS DIRECTIONAL SIGN*

EXIT SIGNS (CLG MTD) *SHADED SURFACE INDICATES LOCATION OF LETTERING. ARROW SHOWS DIRECTIONAL SIGN*

(S) SMOKE DETECTOR

(H) RATE OF RISE HEAT DETECTOR

(FH) FIXED TEMP HEAT DETECTOR

A FIRE ALARM STROBE

MECHANICAL LEGEND:

SUPPLY DIFFUSER

RETURN REGISTER

EXHAUST REGISTER

SPLIT UNIT DIFFUSER

(Sb) DUCT SMOKE DETECTOR

LIGHTING LEGEND:

RECESSED FLUORESCENT FIXTURE

SURFACE MOUNTED FIXTURE

WALL MOUNTED FIXTURE

WALL WASHER

DOWNLIGHT

PENDANT

OCCUPANCY SENSOR

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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KAMM CONSULTING
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2312 S ANDREWS AVE
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PLANTATION, FL, 33324
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COUNSILMAN-HUNSAKER
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SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
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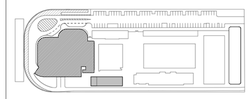
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 01

PROJECT NUMBER: 010326.000
DATE: 00-00-00
SCALE: As indicated

SHEET

A1-200

CAM 23-0723
Exhibit 1M
Page 45 of 169

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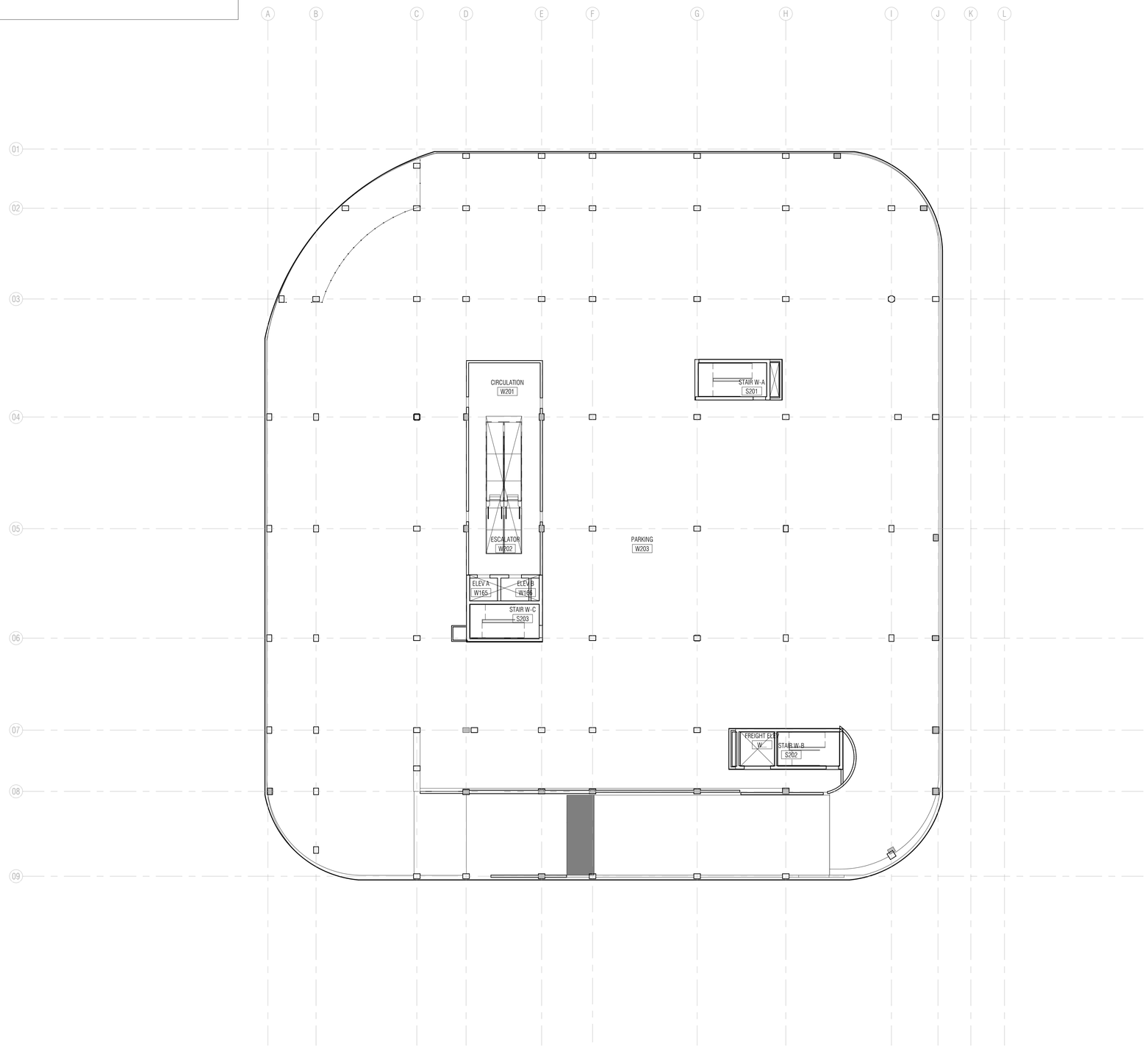

1 RCP - LEVEL 02

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND

SEE A-903 FOR CEILING TYPES AND FIRE RATINGS

HEIGHT A.F.F.

TYPE

CEILING TAG

CLG1: ACT -1

ACT - 2

CLG2: GWB - NOT RATED

GWB - 1 HR RATED

GWB - 2 HR RATED

CLG3: STUCCO

ACOUSTICAL TREATMENT

ACCESS PANEL

STARTING POINT FOR CEILING GRIDS

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THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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260 PALMERO AVE.,
CORAL GABLES, FL, 33134
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950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
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COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
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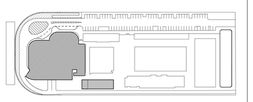
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 02

PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET

A1-201

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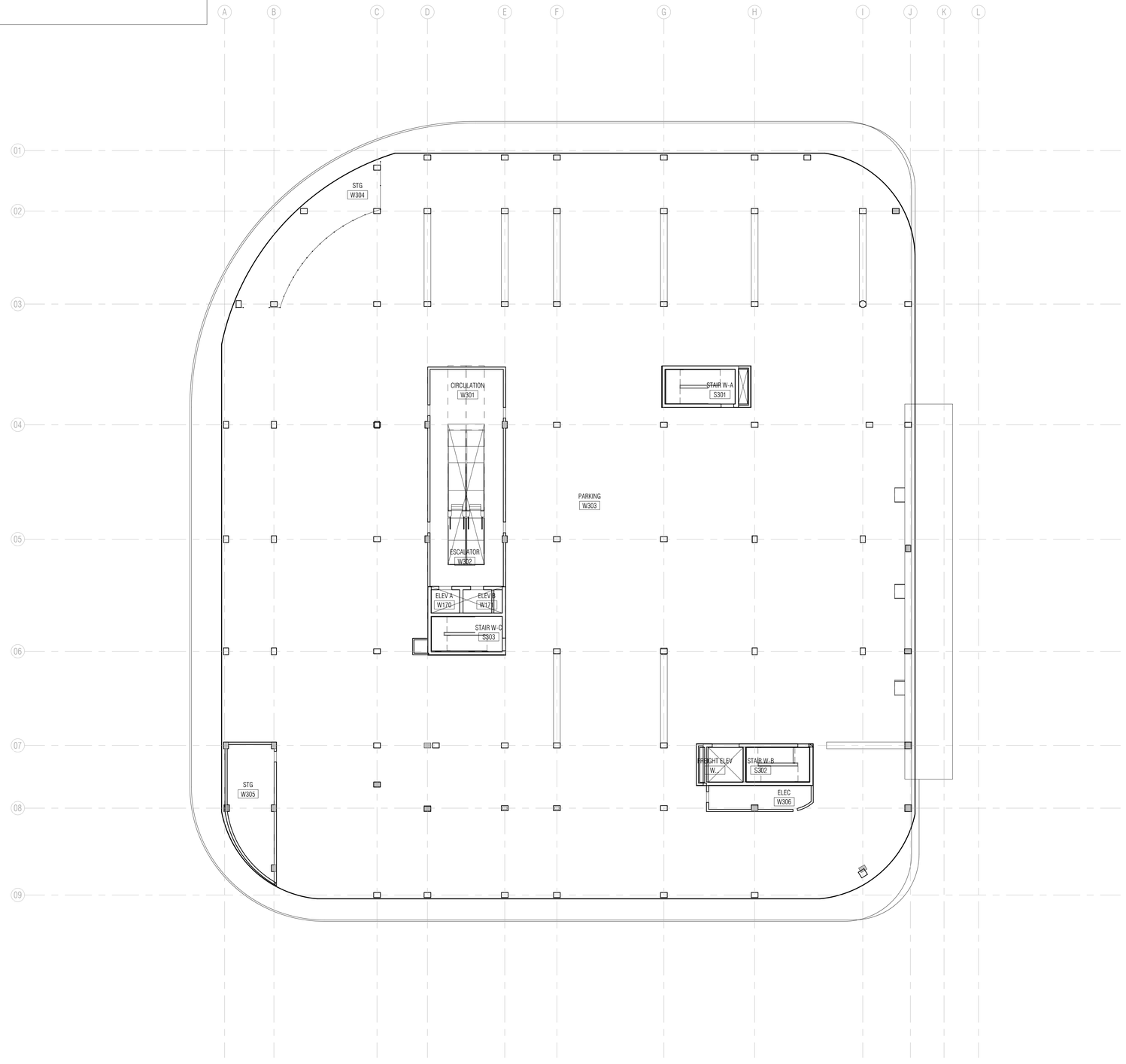

1 RCP - LEVEL 03

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND

SEE A-903 FOR CEILING TYPES AND FIRE RATINGS

HEIGHT A.F.F.

TYPE

CEILING TAG

CLG1: ACT -1

ACT - 2

CLG2: GWB - NOT RATED

GWB - 1 HR RATED

GWB - 2 HR RATED

CLG3: STUCCO

ACOUSTICAL TREATMENT

ACCESS PANEL

STARTING POINT FOR CEILING GRIDS

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MIAMI, FL 33133
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THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

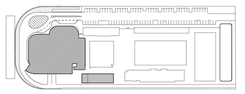
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 03

PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET

A1-202

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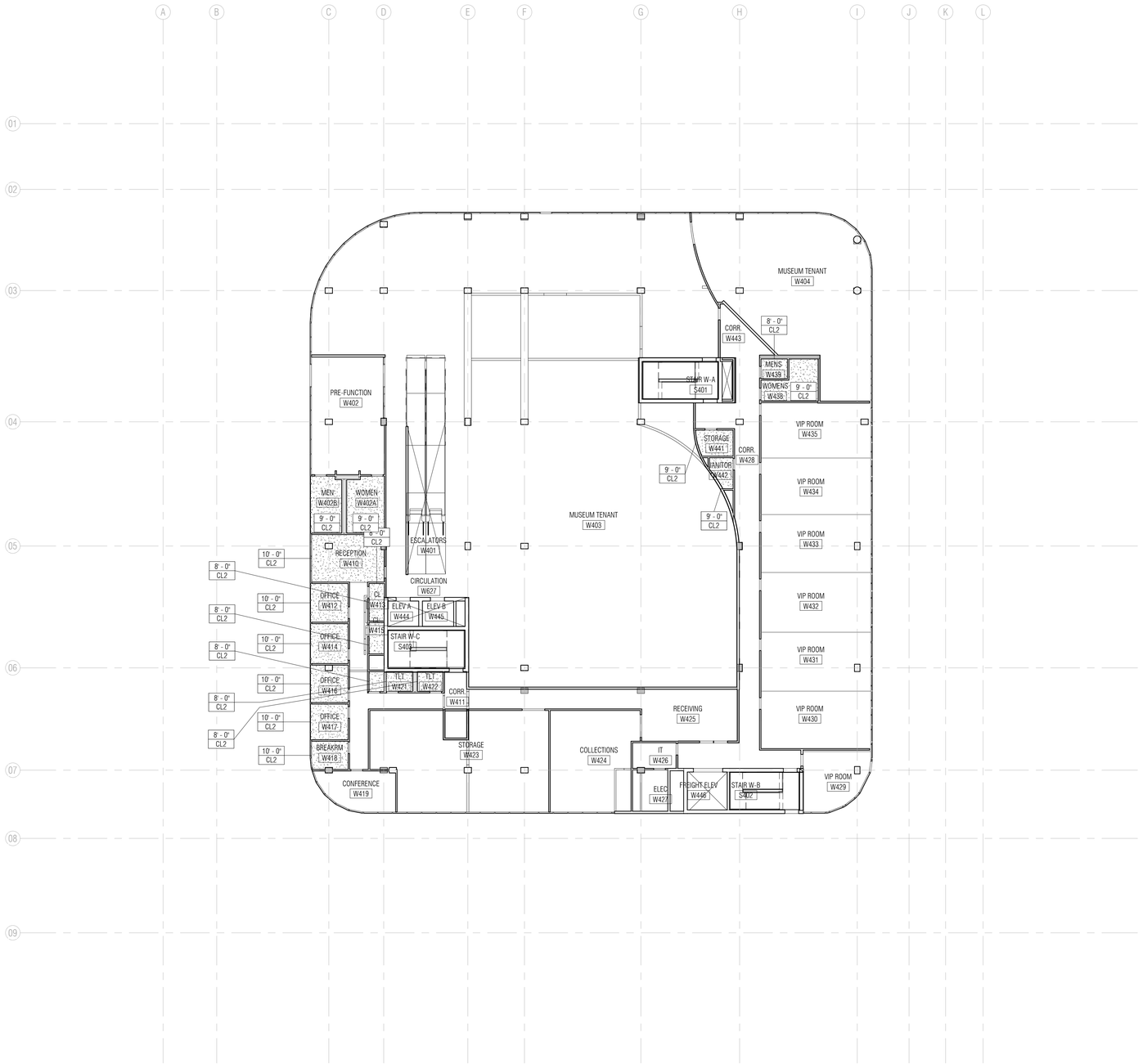


1 RCP - LEVEL 04

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND

SEE A-903 FOR CEILING TYPES AND FIRE RATINGS

HEIGHT A.F.F.

TYPE

CEILING TAG

CLG1: ACT -1

ACT - 2

CLG2: GWB - NOT RATED

GWB - 1 HR RATED

GWB - 2 HR RATED

CLG3: STUCCO

ACOUSTICAL TREATMENT

ACCESS PANEL

STARTING POINT FOR CEILING GRIDS

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

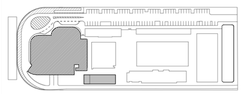
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 04

PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET

A1-203

CAM 23-0723
Exhibit 1M
Page 48 of 169

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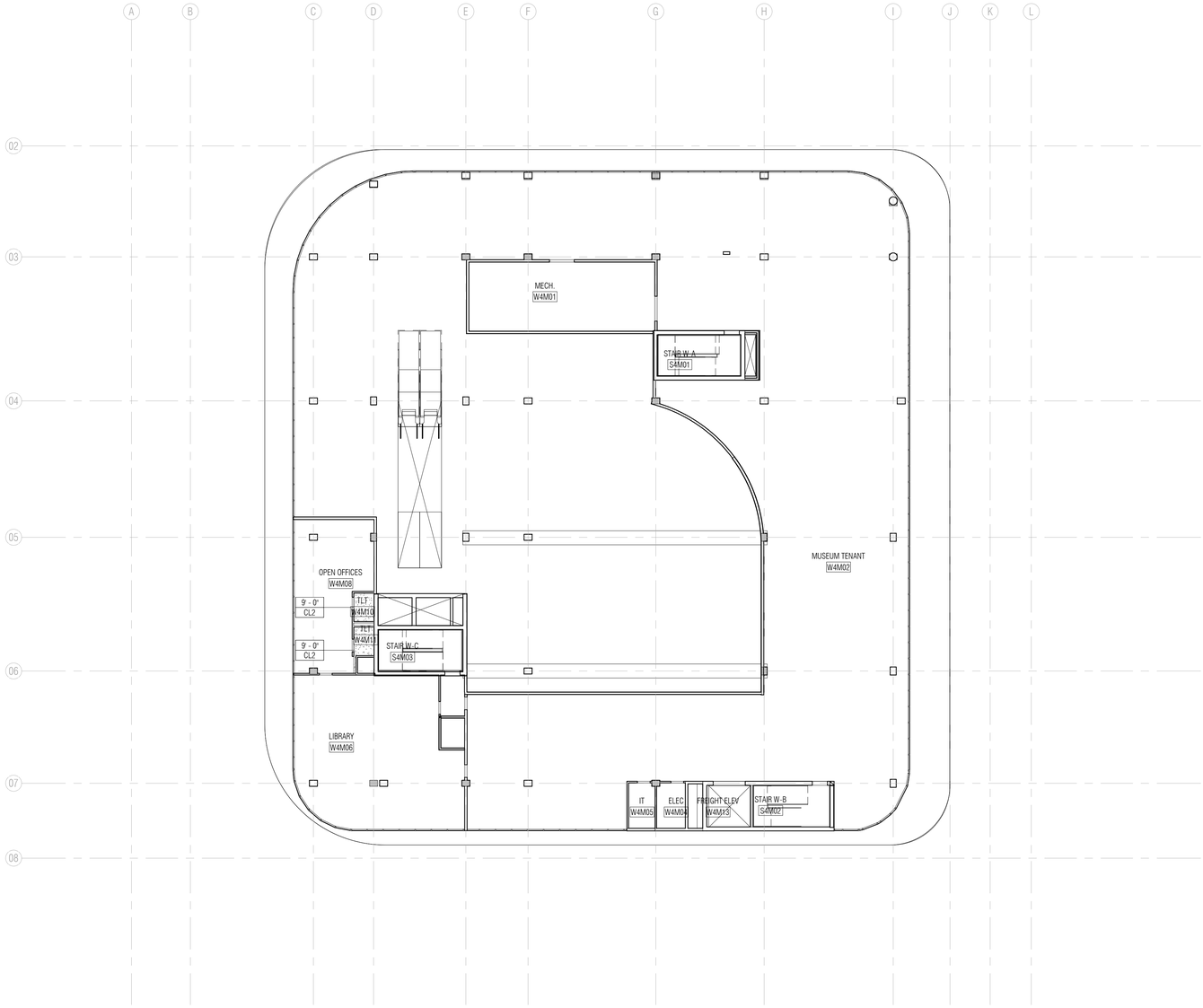
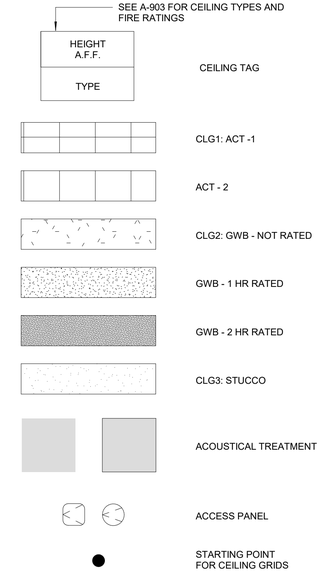


1 RCP - LEVEL 04 MEZZ.

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND



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ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
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CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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TOMBALL, TEX. 77377
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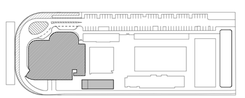
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 04 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET

A1-204

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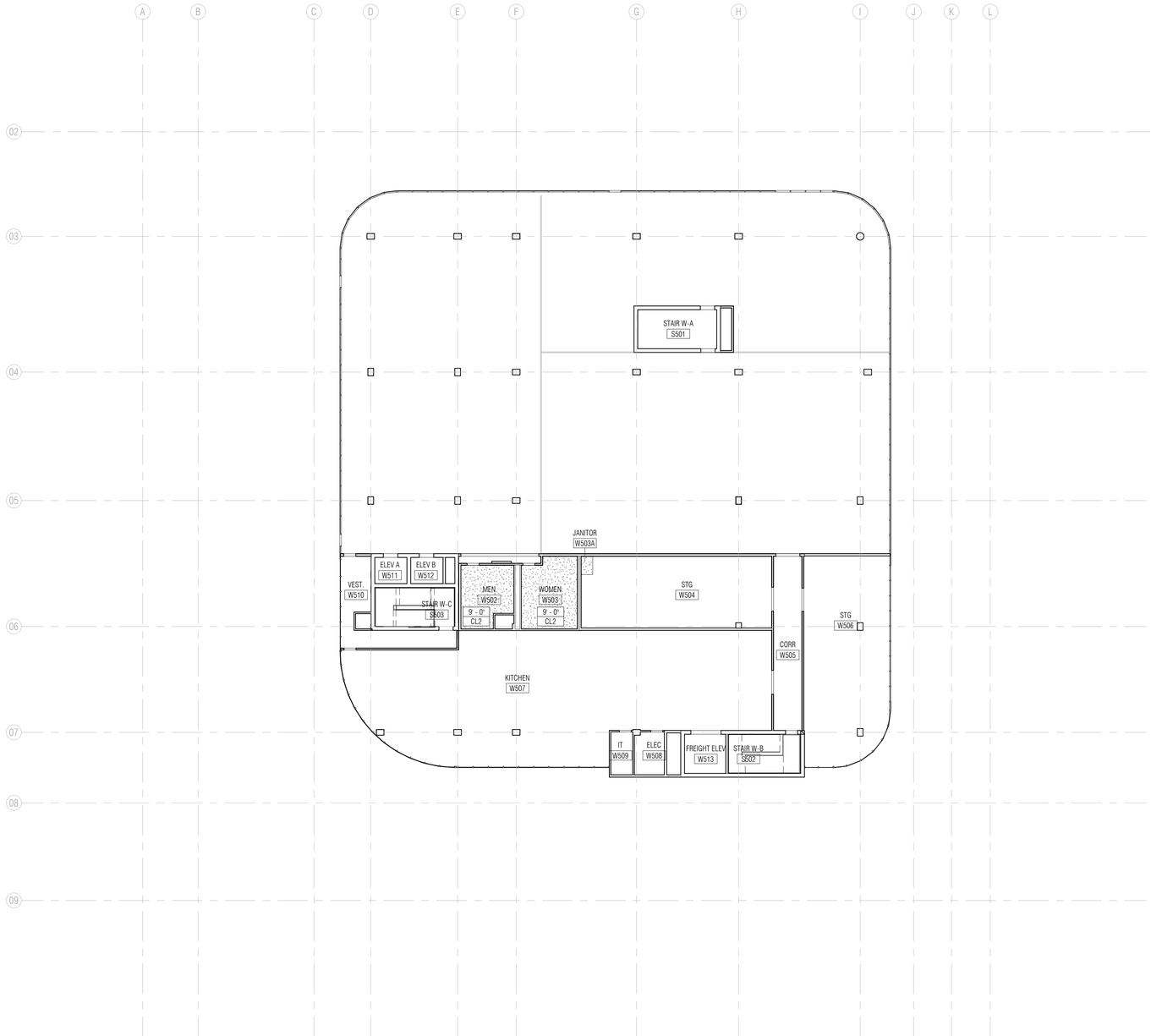
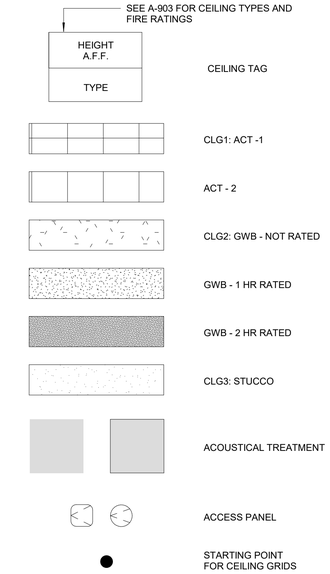


1 RCP - LEVEL 05

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND



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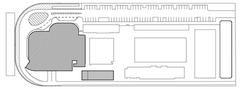
PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
RCP - LEVEL 05

PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET
A1-205

CAM 23-0723
Exhibit 1M
Page 50 of 169

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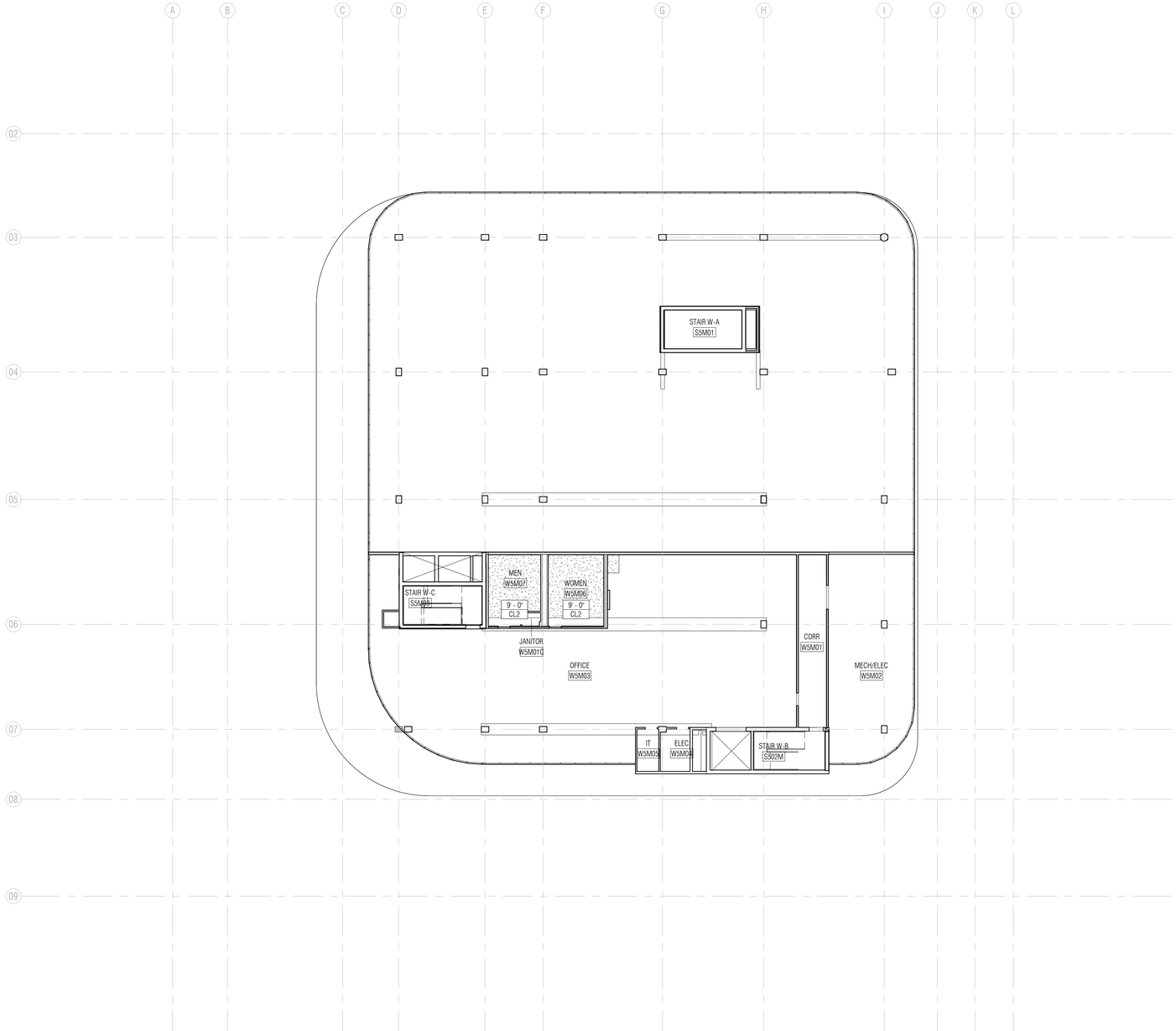

1 RCP - LEVEL 05 MEZZ.

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND

SEE A-903 FOR CEILING TYPES AND FIRE RATINGS

HEIGHT A.F.F.

TYPE

CEILING TAG

CLG1: ACT -1

ACT - 2

CLG2: GWB - NOT RATED

GWB - 1 HR RATED

GWB - 2 HR RATED

CLG3: STUCCO

ACOUSTICAL TREATMENT

ACCESS PANEL

STARTING POINT FOR CEILING GRIDS

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 05 MEZZ.

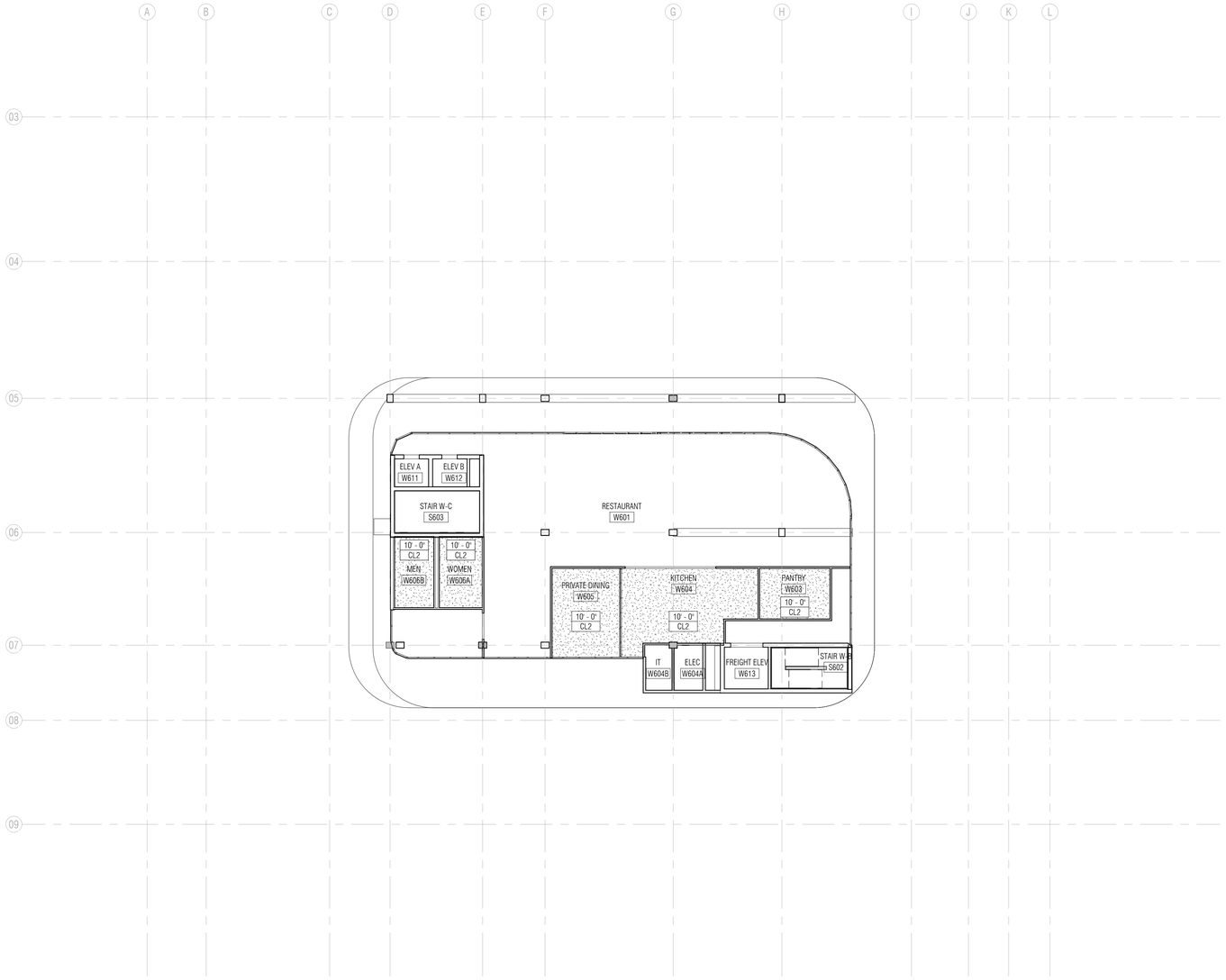
PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET

A1-206

CAM 23-0723
Exhibit 1M
Page 51 of 169

8/26/2022 5:26:47 PM



1 RCP - LEVEL 06

1/16" = 1'-0"

REFLECTED CEILING PLAN GRAPHIC LEGEND

SEE A-903 FOR CEILING TYPES AND FIRE RATINGS

HEIGHT A.F.F.

TYPE

CEILING TAG

CLG1: ACT -1

ACT - 2

CLG2: GWB - NOT RATED

GWB - 1 HR RATED

GWB - 2 HR RATED

CLG3: STUCCO

ACOUSTICAL TREATMENT

ACCESS PANEL

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101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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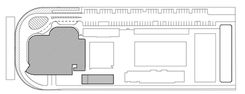
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

RCP - LEVEL 06

PROJECT NUMBER: 010326.000
DATE: 03/29/22
SCALE: As indicated

SHEET

A1-207

CAM 23-0723
Exhibit 1M
Page 52 of 169

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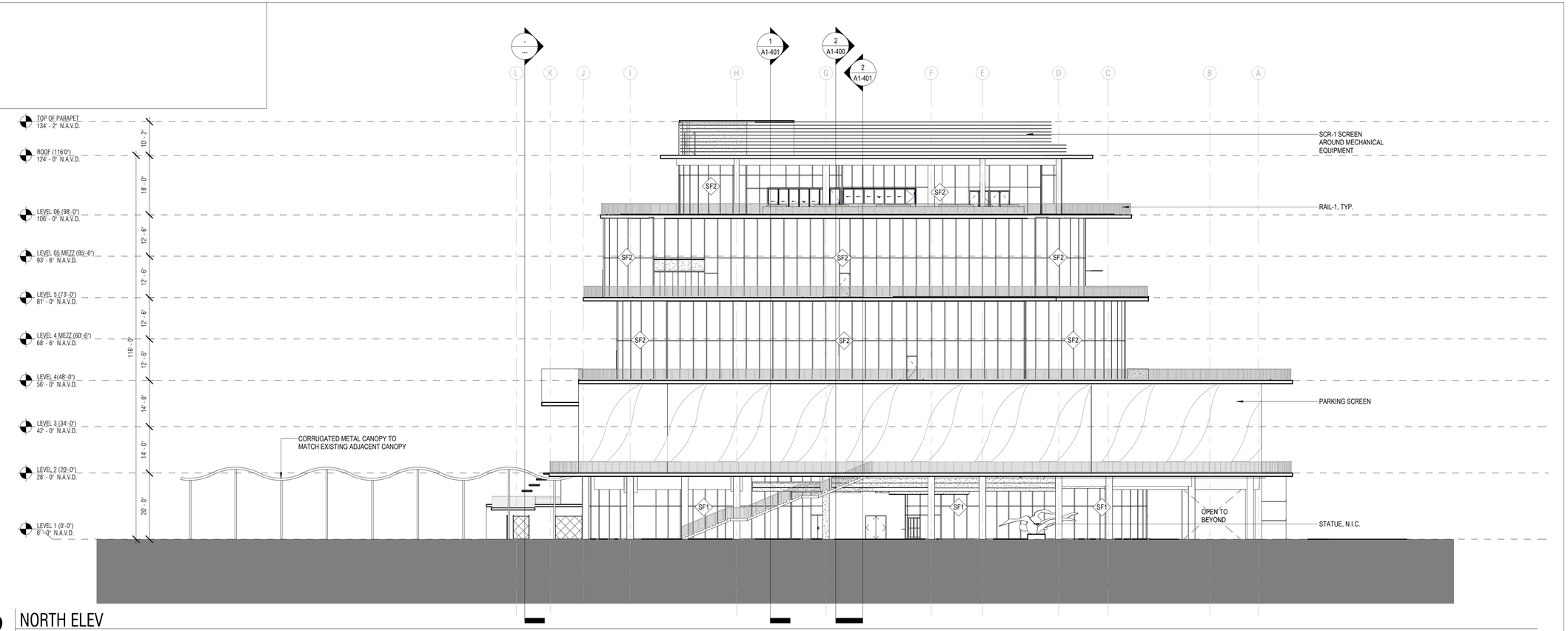
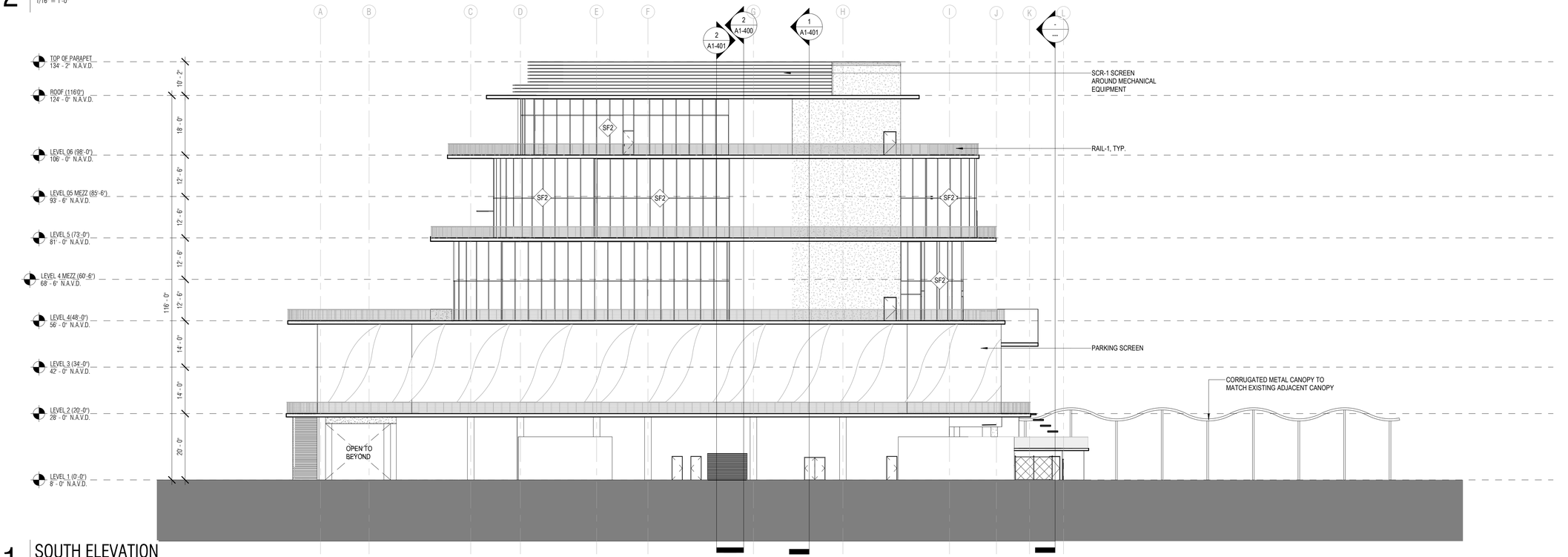


2 NORTH ELEV

1/16" = 1'-0"



1 SOUTH ELEVATION

1/16" = 1'-0"

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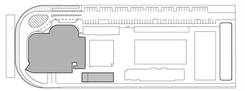
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

BUILDING ELEVATIONS

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

A1-300

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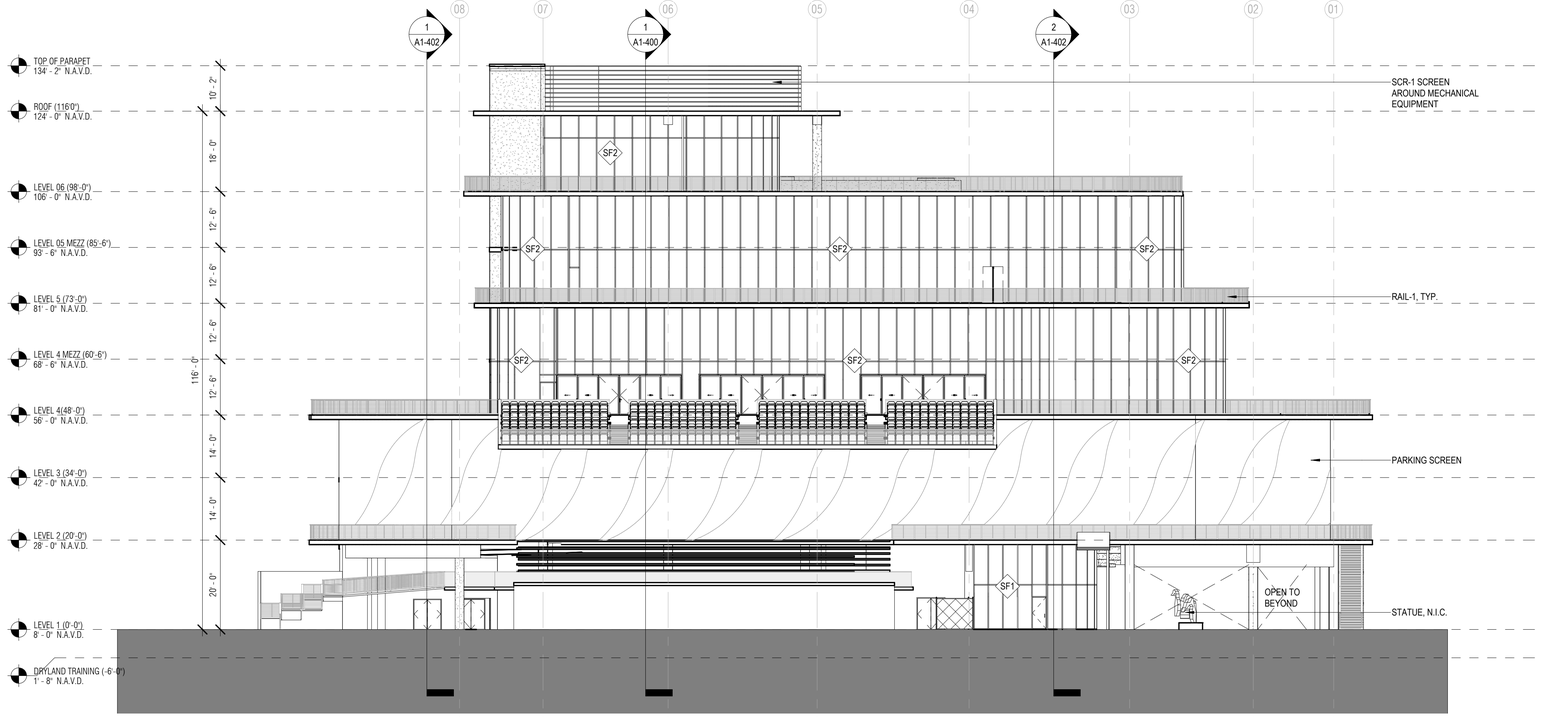
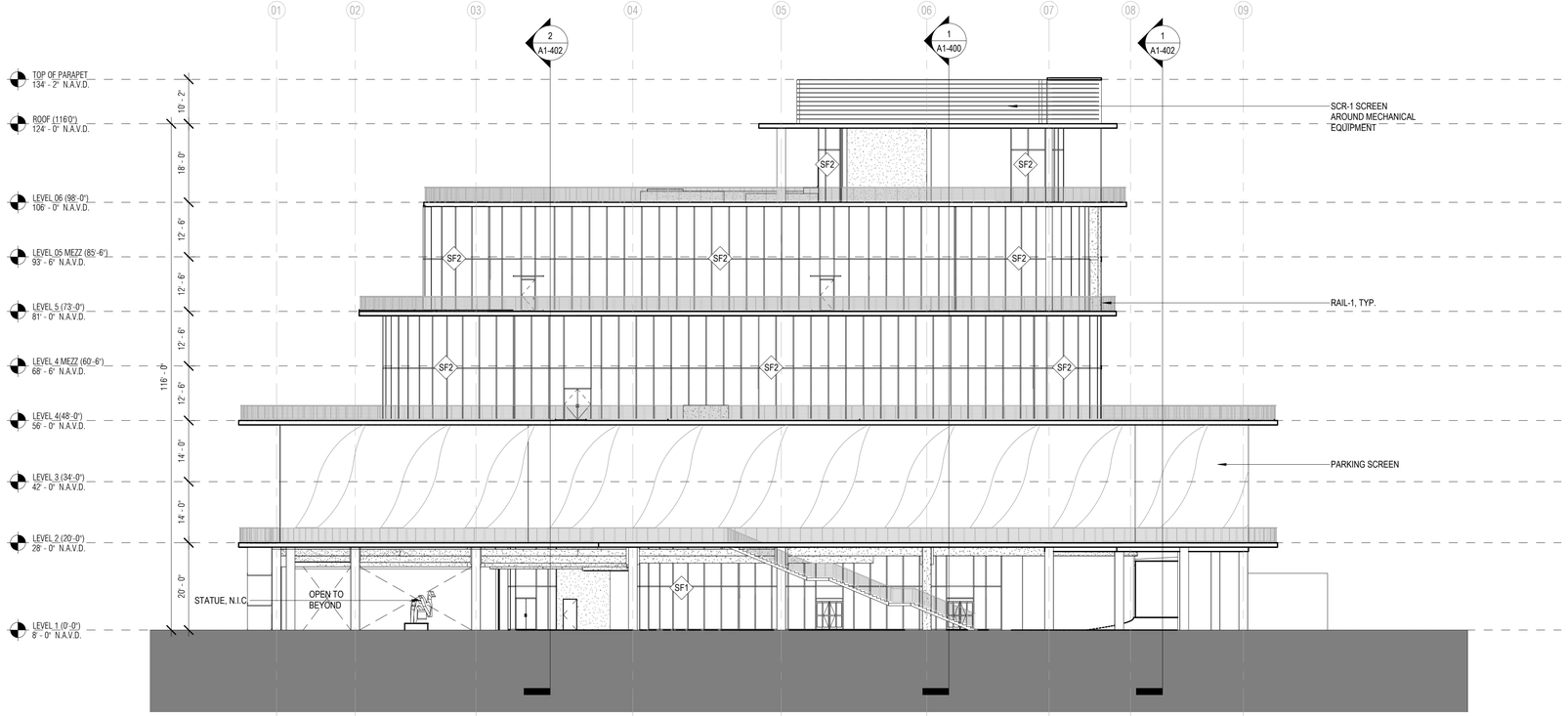


2 EAST ELEVATION

1/16" = 1'-0"



1 WEST ELEVATION

1/16" = 1'-0"

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VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
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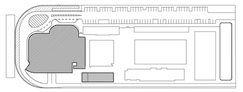
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

BUILDING ELEVATIONS

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

A1-301

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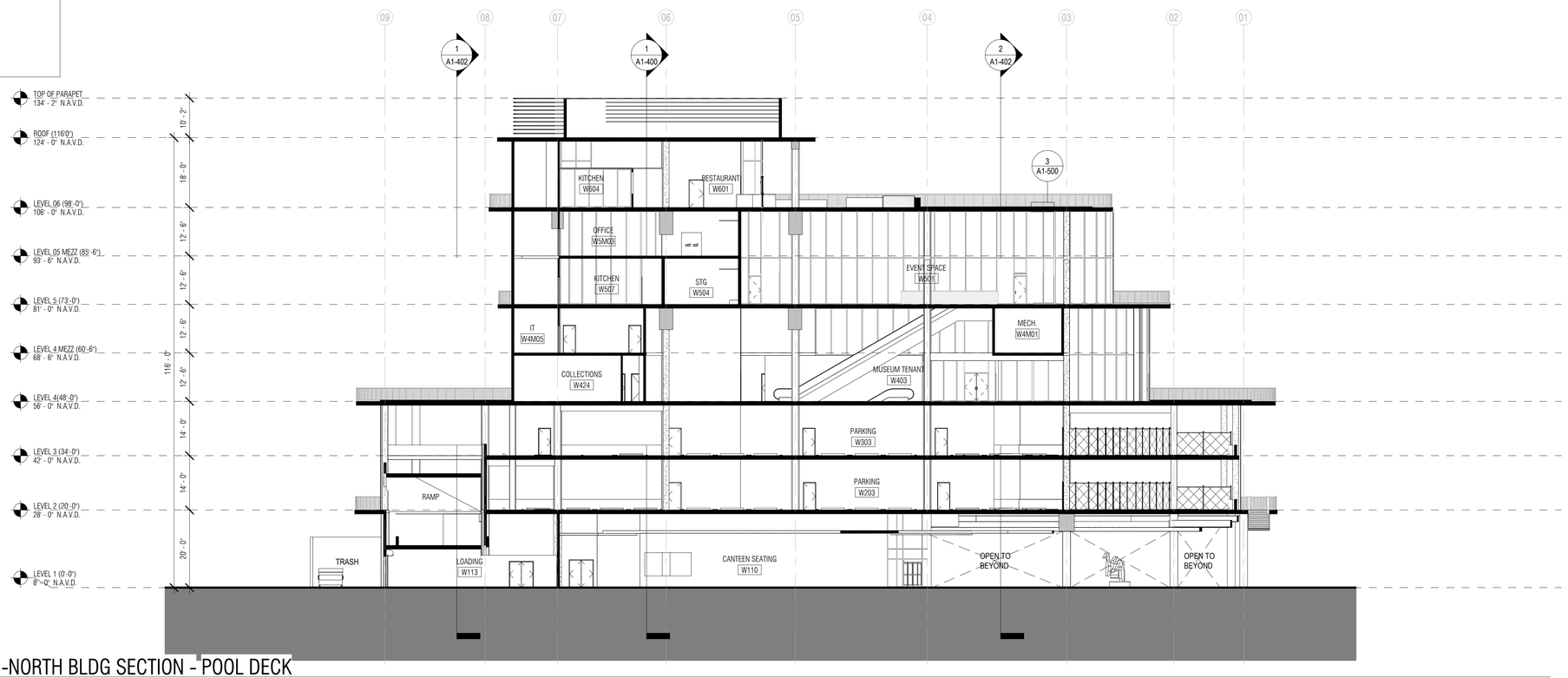
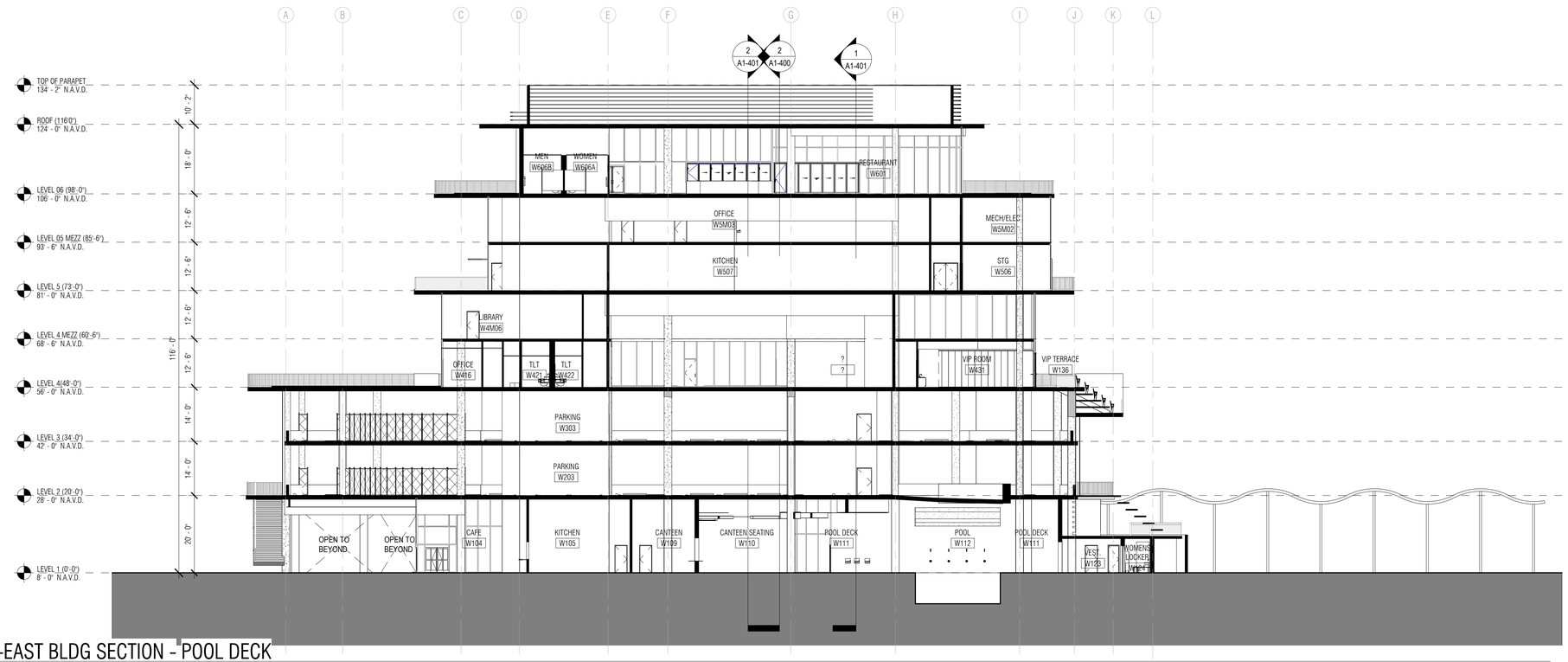


2 SOUTH-NORTH BLDG SECTION - POOL DECK

1/16" = 1'-0"



1 WEST-EAST BLDG SECTION - POOL DECK

1/16" = 1'-0"

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FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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2312 S ANDREWS AVE
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950 SOUTH PINE ISLAND RD., STE. A150
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COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
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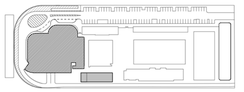
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
BUILDING SECTIONS

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
A1-400

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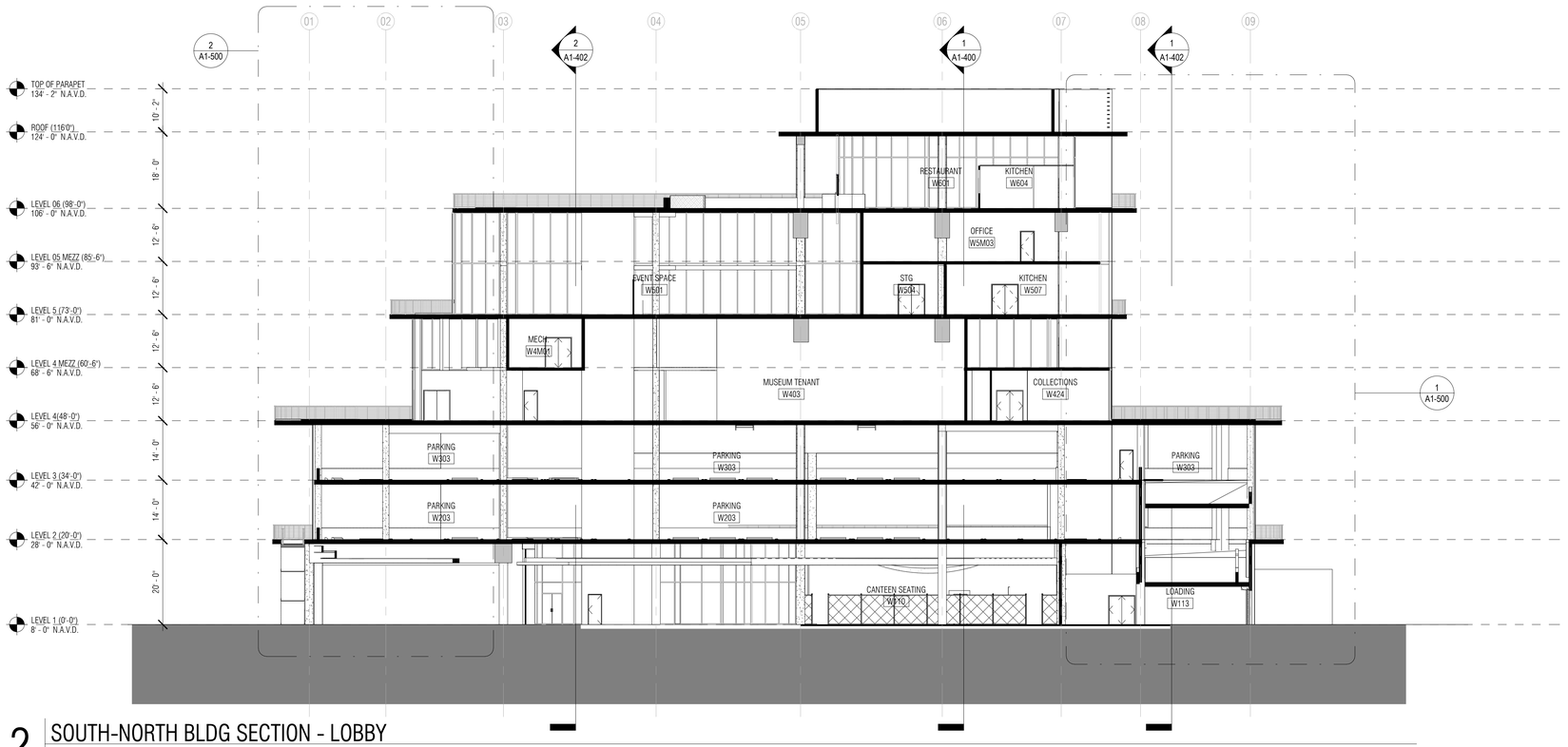
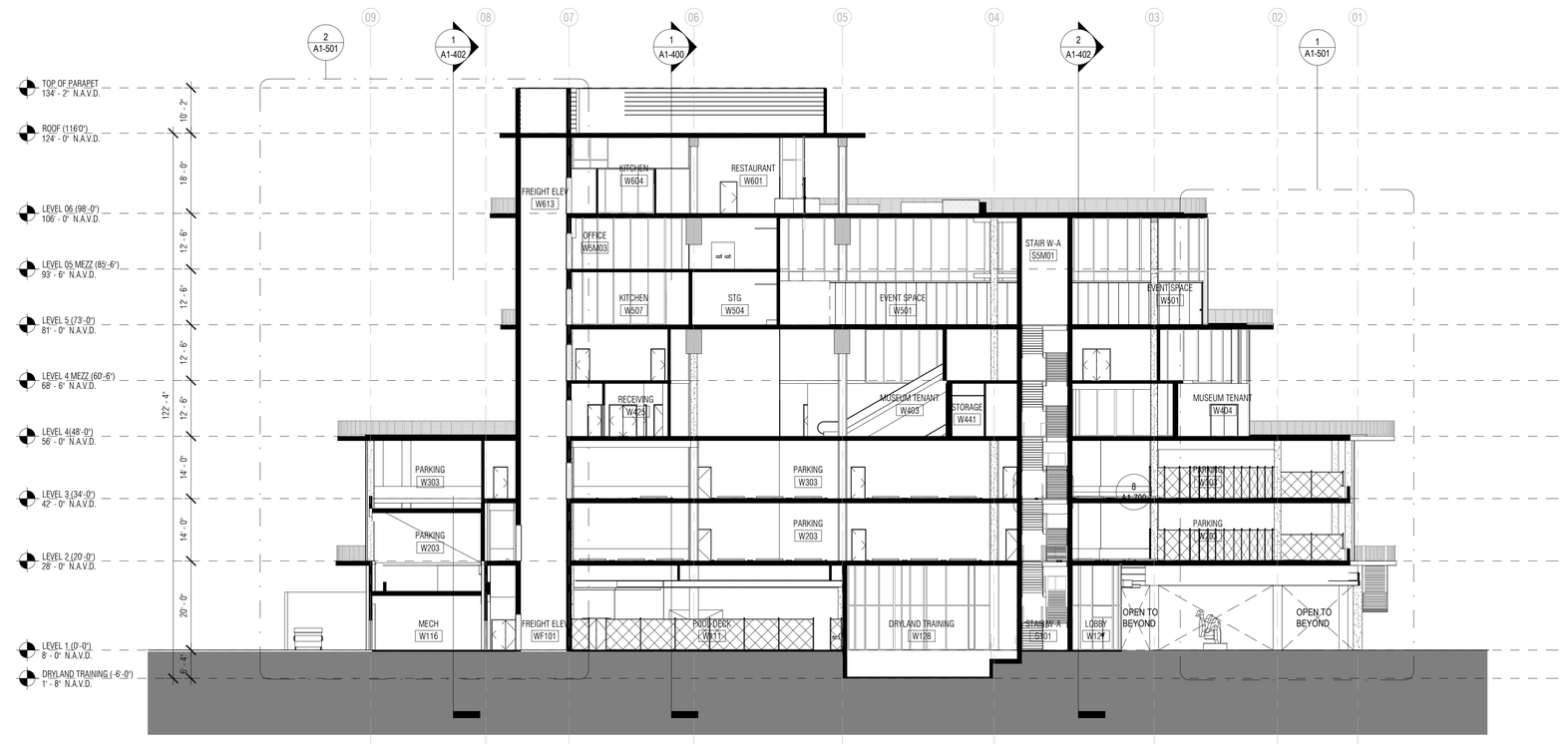


2 SOUTH-NORTH BLDG SECTION - LOBBY

1/16" = 1'-0"



1 SOUTH-NORTH BLDG SECTION - DRYLAND TRAINING

1/16" = 1'-0"

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ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
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STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
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CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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10733 SUNSET OFFICE DR., STE. 400,
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VERTICAL CONSULTANT:
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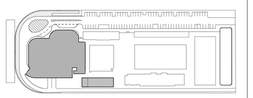
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
BUILDING SECTIONS

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
A1-401

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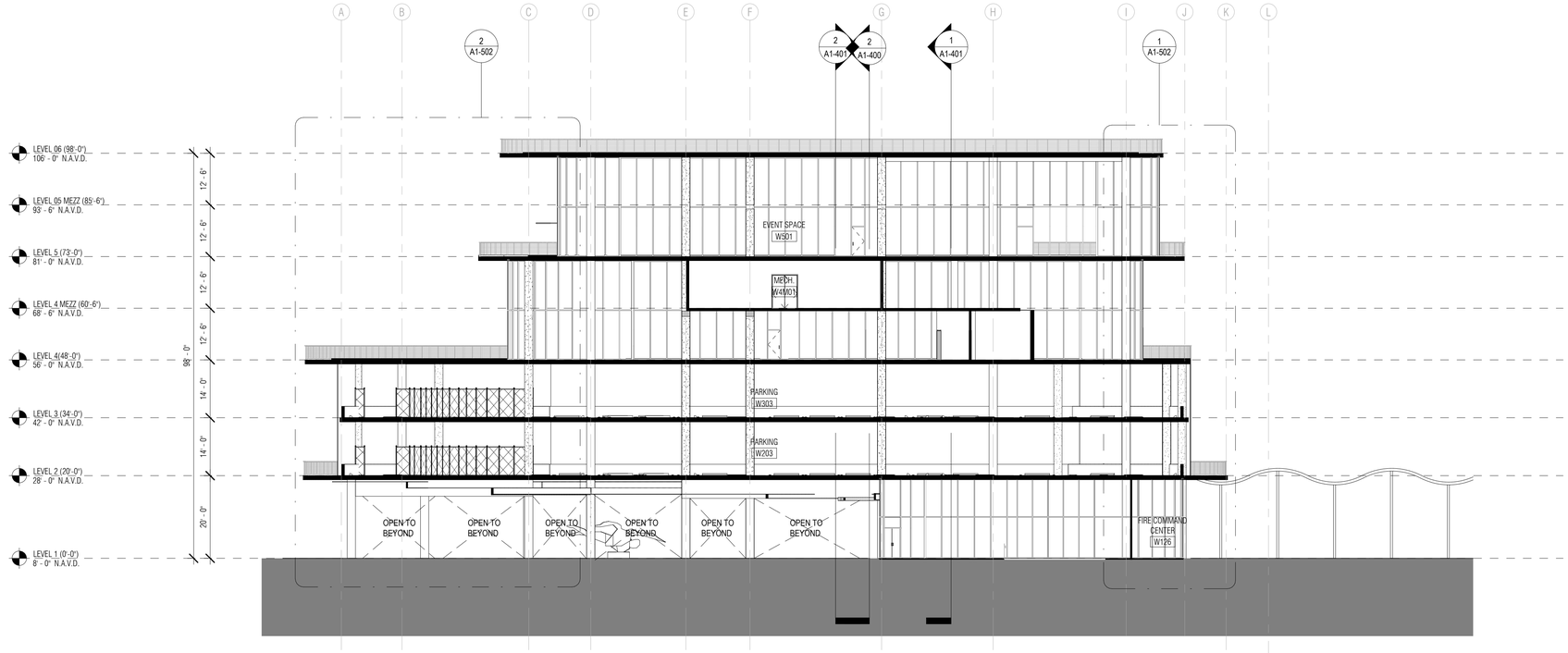
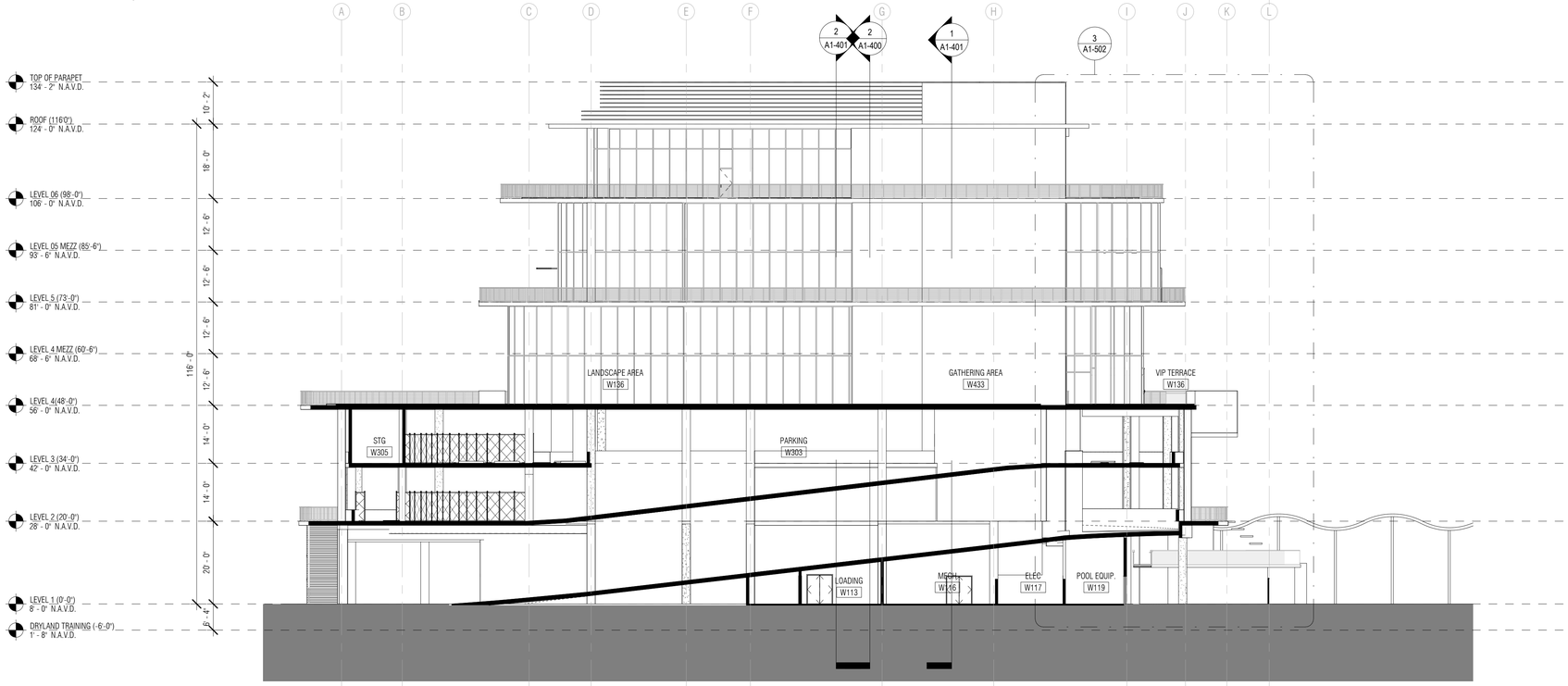


2 WEST-EAST BLDG SECTION - LOBBY

1/16" = 1'-0"



1 WEST-EAST BLDG SECTION - PARKING RAMP

1/16" = 1'-0"

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PROJECT

ISHOF - WEST BUILDING

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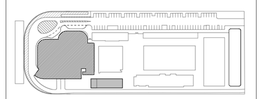
KEY PLAN:



△	DESCRIPTION	DATE

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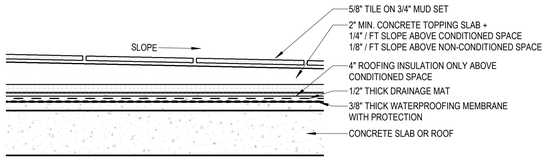
PROJECT NORTH:

DRAWING TITLE
BUILDING SECTIONS

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

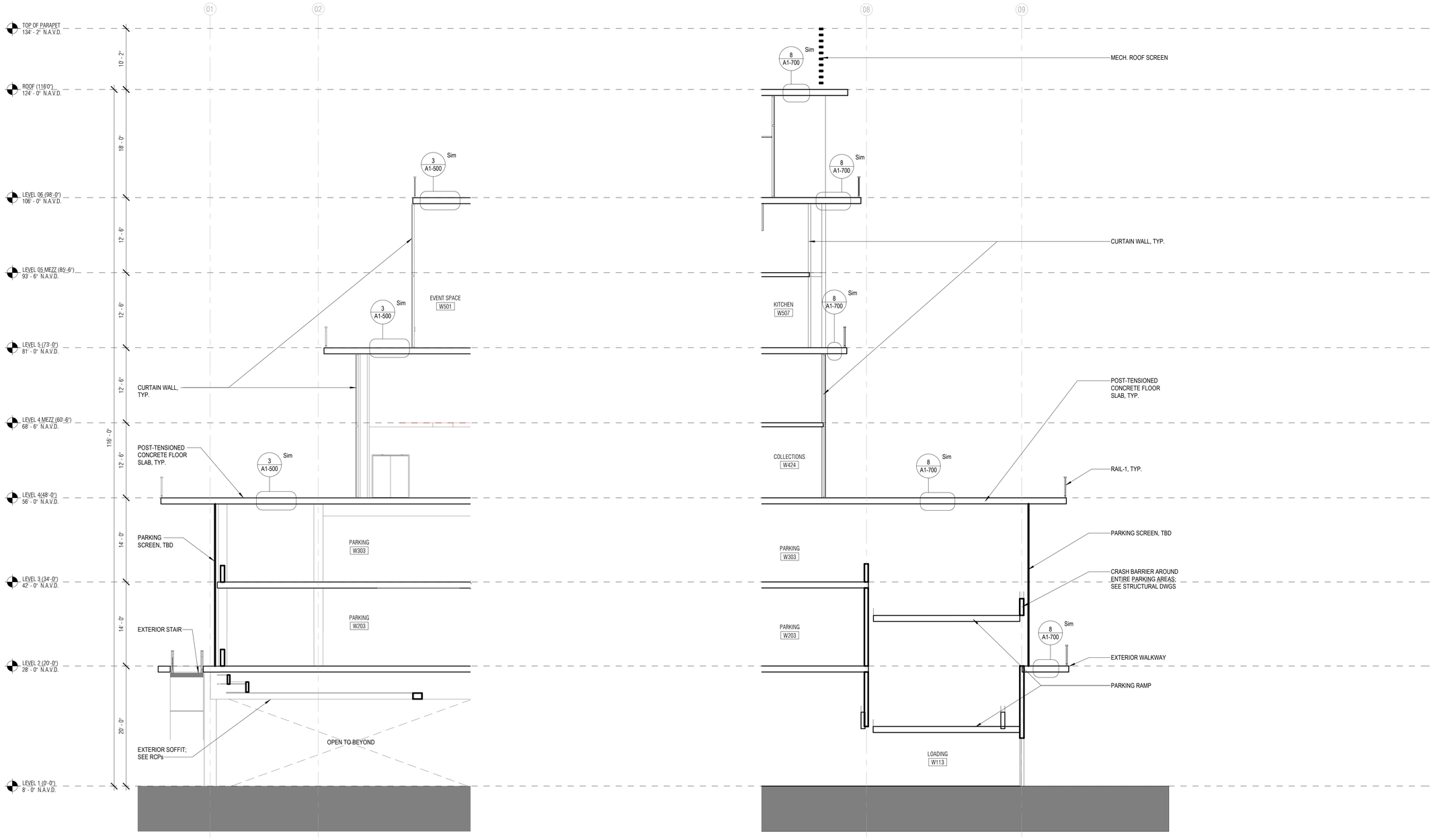
SHEET
A1-402

8/26/2022 5:28:15 PM



3 TYP. TERRACE / ROOF SECTION DETAIL1

3/4" = 1'-0"



2 WALL SECTION @ SOUTH

1/8" = 1'-0"

1 WALL SECTION @ NORTH

1/8" = 1'-0"

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CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

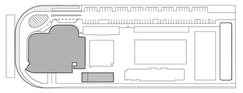
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

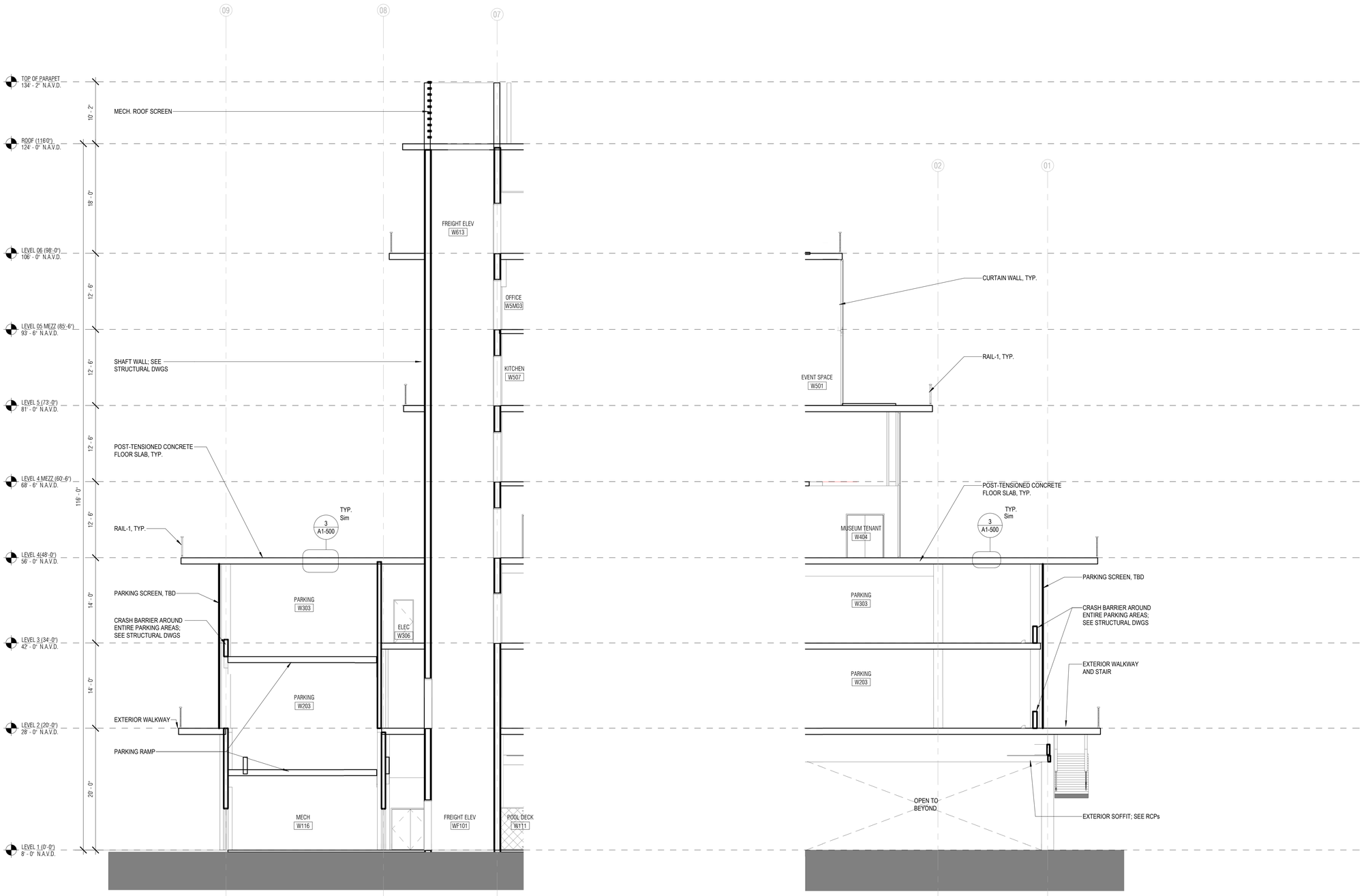
WALL SECTIONS

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: As indicated

SHEET

A1-500

8/26/2022 5:28:20 PM



2 WALL SECTION 2 @ SOUTH
1/8" = 1'-0"

1 WALL SECTION 2 @ NORTH
1/8" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
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950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
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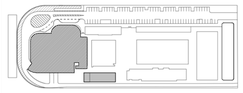
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

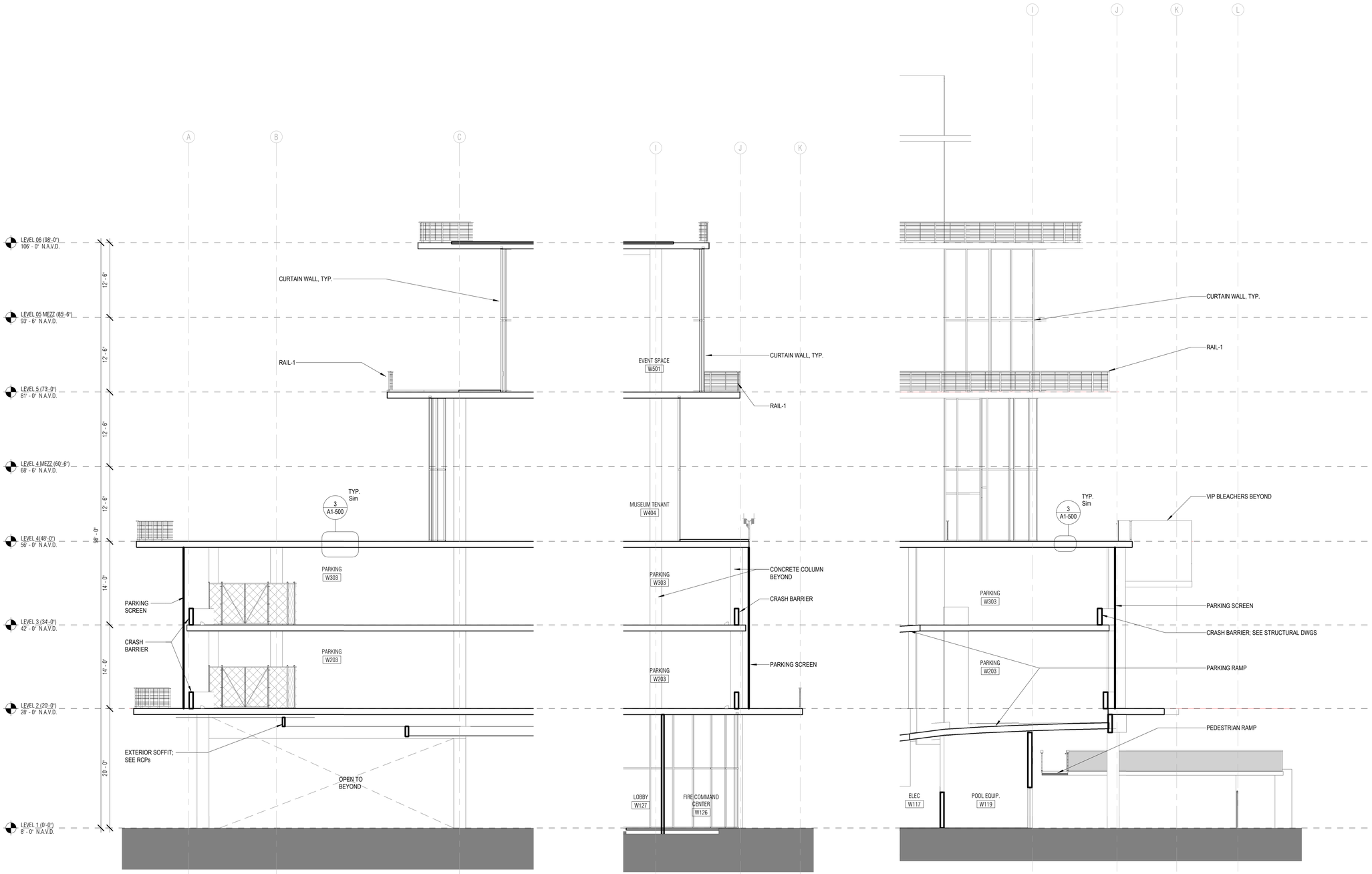
PROJECT NORTH:

DRAWING TITLE
WALL SECTIONS

PROJECT NUMBER: 010326.000
DATE: 02/23/22
SCALE: 1/8" = 1'-0"

SHEET
A1-501

8/26/2022 5:28:26 PM



2 WALL SECTION @ WEST LOBBY
1/8" = 1'-0"

1 WALL SECTION @ EAST LOBBY
1/8" = 1'-0"

3 WALL SECTION @ EAST PARKING RAMP
1/8" = 1'-0"

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ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

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COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WALL SECTIONS

PROJECT NUMBER: 010326.000
DATE: 02/23/22
SCALE: 1/8" = 1'-0"

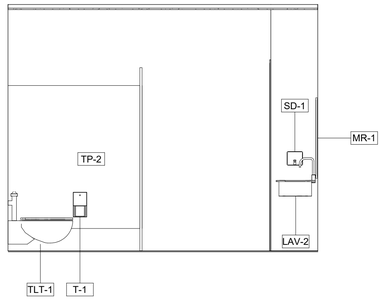
SHEET
A1-502

8/26/2022 5:28:33 PM

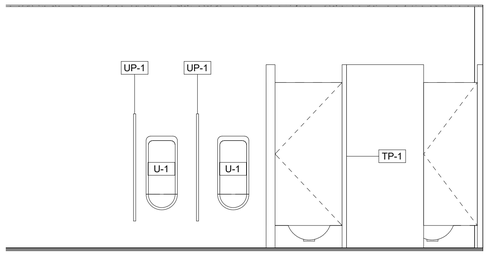
NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

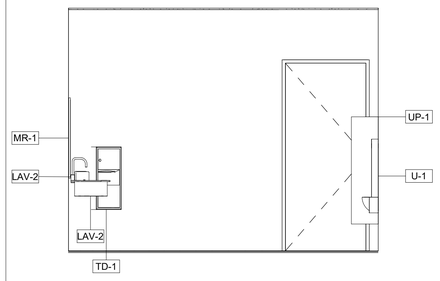
CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
ND-1	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK: B-270
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



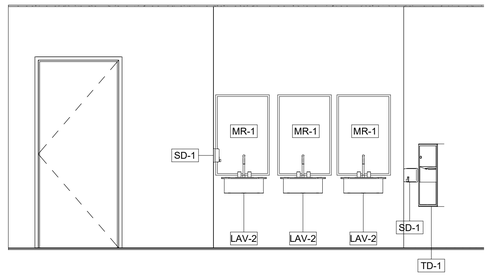
9 MENS W106 SOUTH
3/8" = 1'-0"



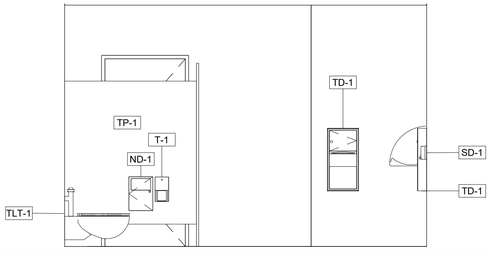
8 MENS W106 EAST
3/8" = 1'-0"



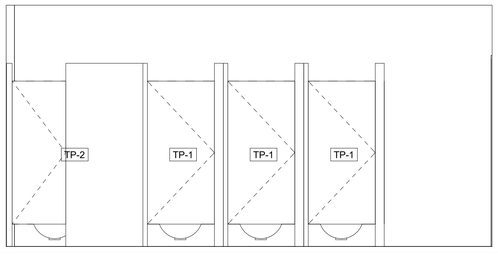
7 MENS W106 NORTH
3/8" = 1'-0"



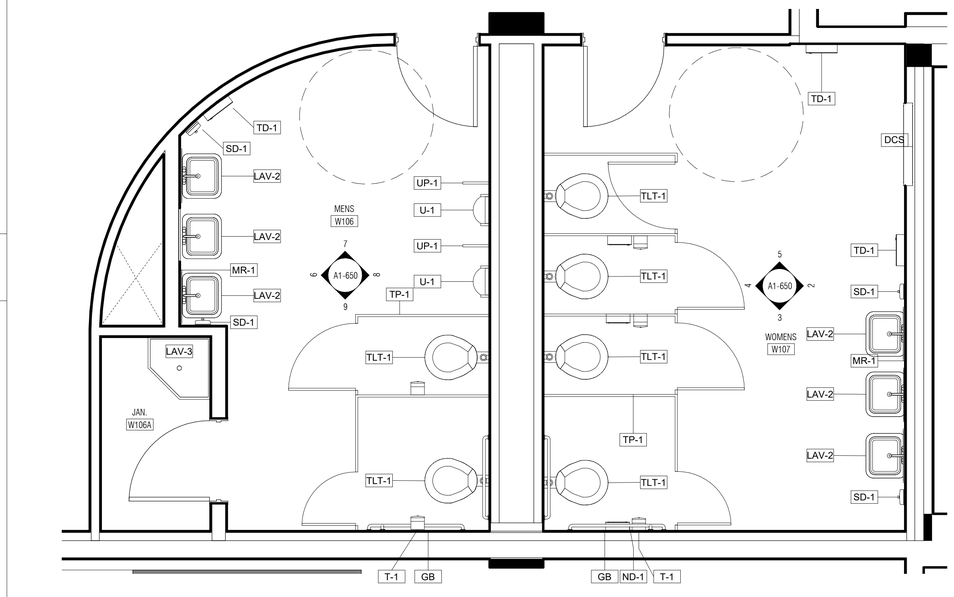
6 MENS W106 WEST
3/8" = 1'-0"



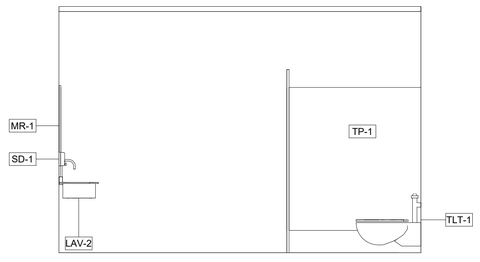
5 WOMEN W107 NORTH
3/8" = 1'-0"



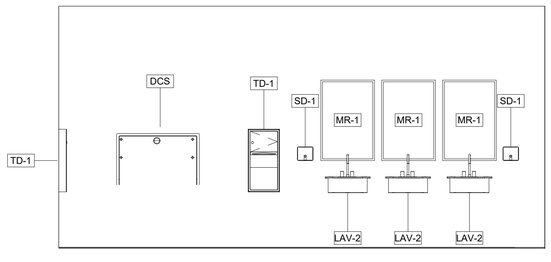
4 WOMEN W107 WEST
3/8" = 1'-0"



1 LEVEL 01 - BATHROOMS
3/8" = 1'-0"



3 WOMEN W107 SOUTH
3/8" = 1'-0"



2 WOMEN W107 EAST
3/8" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
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260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

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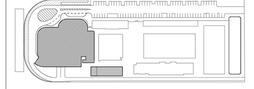
SCCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 01 RESTROOMS

PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 3/8" = 1'-0"

SHEET
A1-650

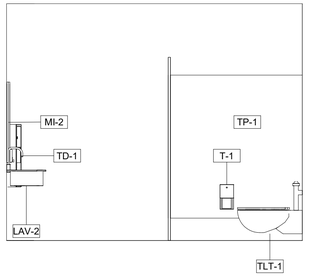
CAM 23-0723
Exhibit 1M
Page 61 of 169

8/26/2022 5:28:40 PM

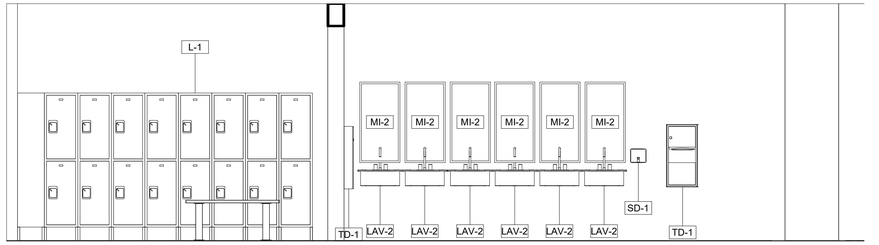
NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

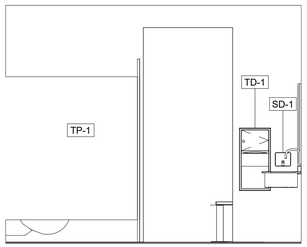
CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
ND-1	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK: B-270
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



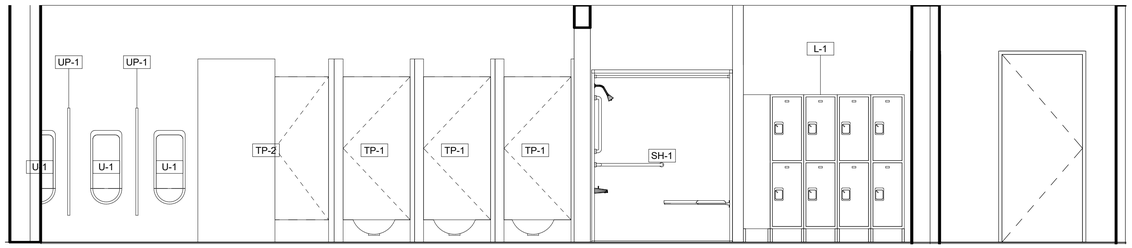
9 MEN W123 NORTH
3/8" = 1'-0"



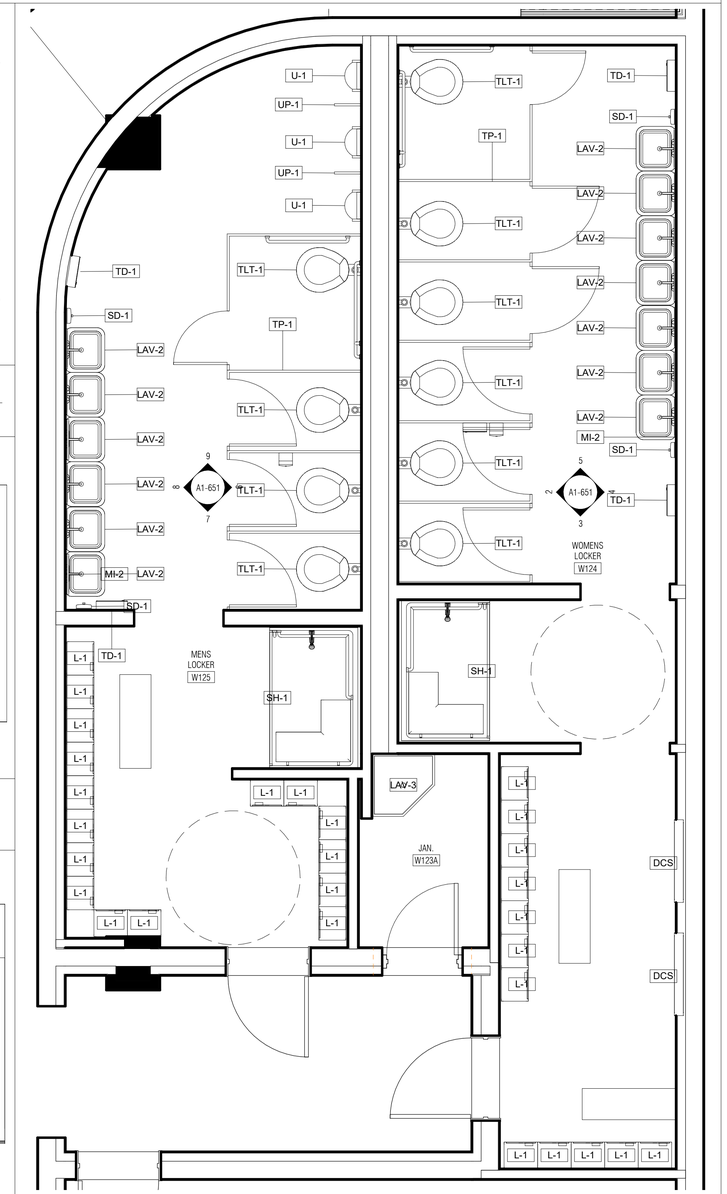
8 MEN W123 WEST
3/8" = 1'-0"



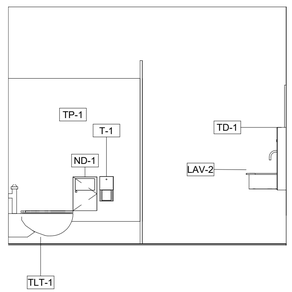
7 MEN W123 SOUTH
3/8" = 1'-0"



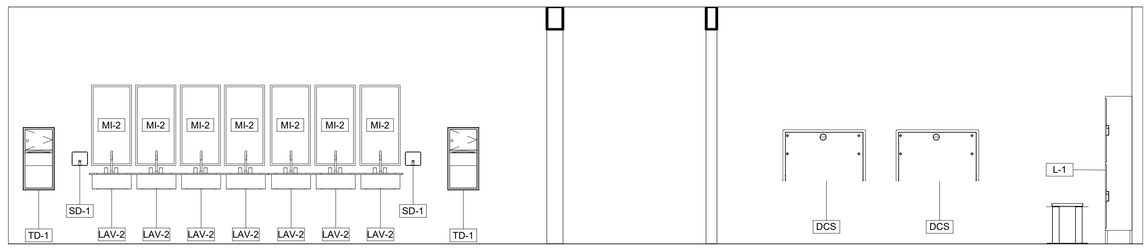
6 MEN W123 EAST
3/8" = 1'-0"



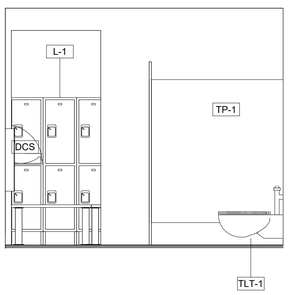
1 LEVEL 01 - LOCKER ROOMS
3/8" = 1'-0"



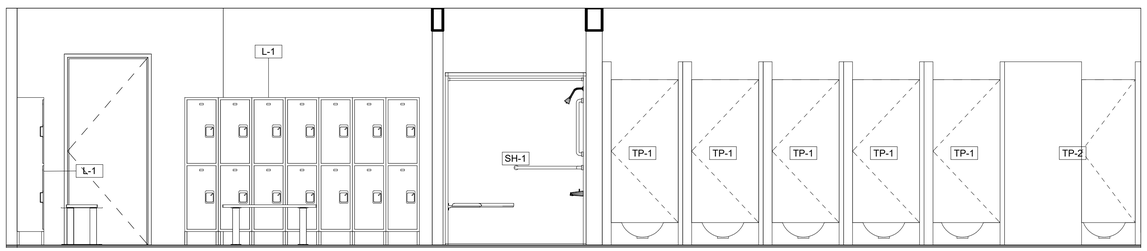
5 WOMEN W124 NORTH
3/8" = 1'-0"



4 WOMEN W124 EAST
3/8" = 1'-0"



3 WOMEN W124 SOUTH
3/8" = 1'-0"



2 WOMEN W124 WEST
3/8" = 1'-0"

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ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
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VERTICAL CONSULTANT:
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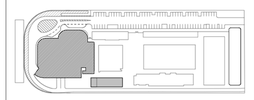
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 01 LOCKER ROOMS

PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 3/8" = 1'-0"

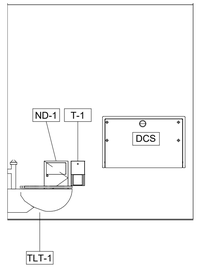
SHEET
A1-651

8/26/2022 5:28:50 PM

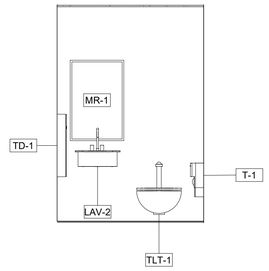
TOILET ACCESSORIES SCHEDULE

CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
ND-1	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK: B-270
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC

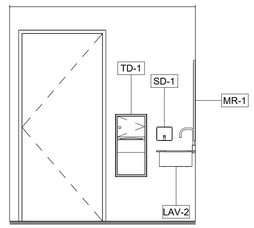
NOTE: REFER TO G1-004 AND G1-005 FOR TYPICAL DIMENSIONS SEE PLUMBING PLANS FOR MORE INFORMATION



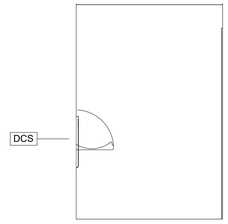
15 LVL 04 TLT - NORTH
3/8" = 1'-0"



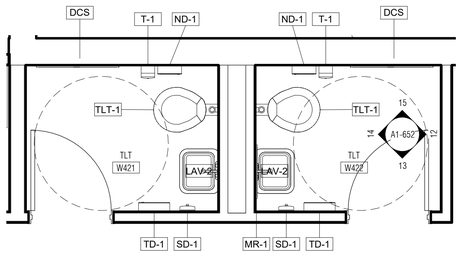
14 LVL 04 TLT - WEST
3/8" = 1'-0"



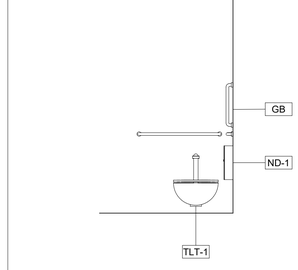
13 LVL 04 TLT - SOUTH
3/8" = 1'-0"



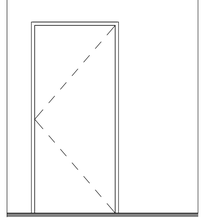
12 LVL 04 TLT - EAST
3/8" = 1'-0"



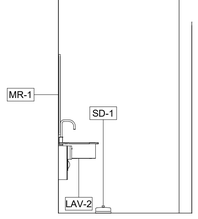
11 LVL 04 OFFICE - TLT
3/8" = 1'-0"



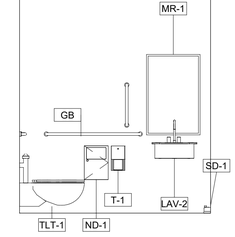
10 LVL 04 MEZZ. - NORTH
3/8" = 1'-0"



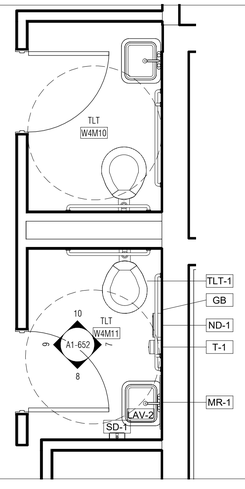
9 LVL 04 MEZZ. - WEST
3/8" = 1'-0"



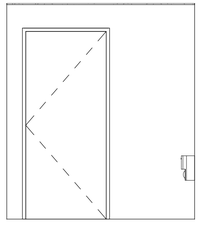
8 LVL 04 MEZZ. - SOUTH
3/8" = 1'-0"



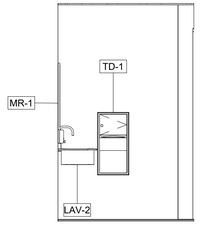
7 LVL 04 MEZZ. TLT - EAST
3/8" = 1'-0"



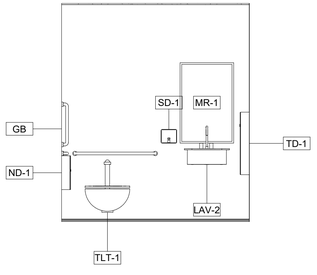
6 LEVEL 04 MEZZ. - TLT
3/8" = 1'-0"



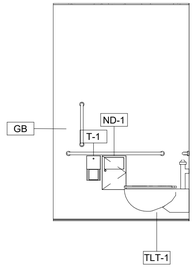
5 GROUND FLOOR TLT - NORTH
3/8" = 1'-0"



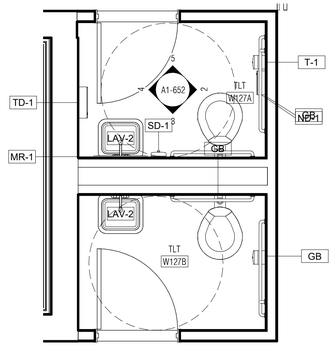
4 GROUND FLOOR TLT - WEST
3/8" = 1'-0"



3 GROUND FLOOR TLT - SOUTH
3/8" = 1'-0"



2 GROUND FLOOR TLT - EAST
3/8" = 1'-0"



1 GROUND FLOOR - TLT
3/8" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
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FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
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PLANTATION, FL, 33324
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AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
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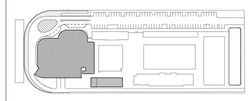
VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 01 AND 04 MEZZ. TLT ROOMS

PROJECT NUMBER: 010326.000
DATE: 08/19/22
SCALE: 3/8" = 1'-0"

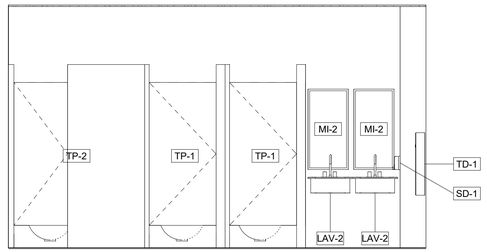
SHEET
A1-652

8/26/2022 5:28:59 PM

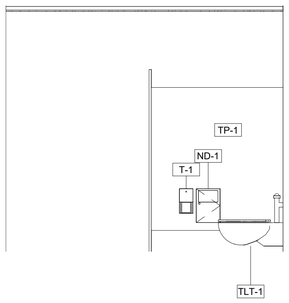
NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

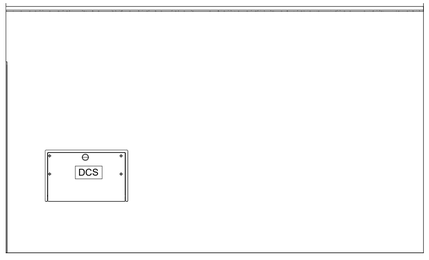
CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
ND-1	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK: B-270
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



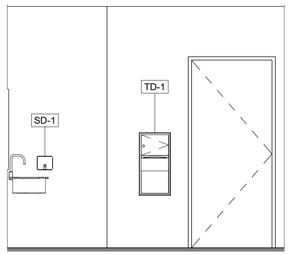
9 WOMENS W488B WEST
3/8" = 1'-0"



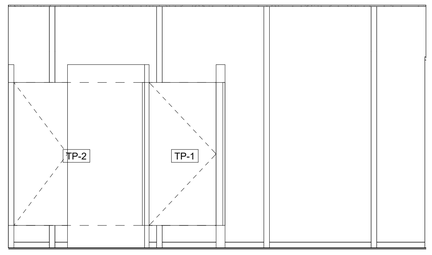
8 WOMENS W488B SOUTH
3/8" = 1'-0"



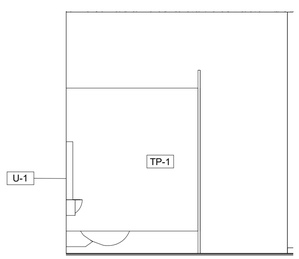
7 WOMENS W488B EAST
3/8" = 1'-0"



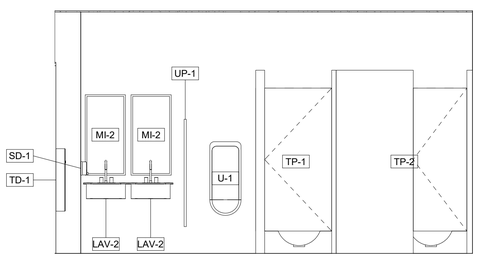
6 WOMENS W488B NORTH
3/8" = 1'-0"



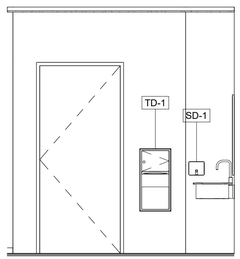
5 MENS W488C WEST
3/8" = 1'-0"



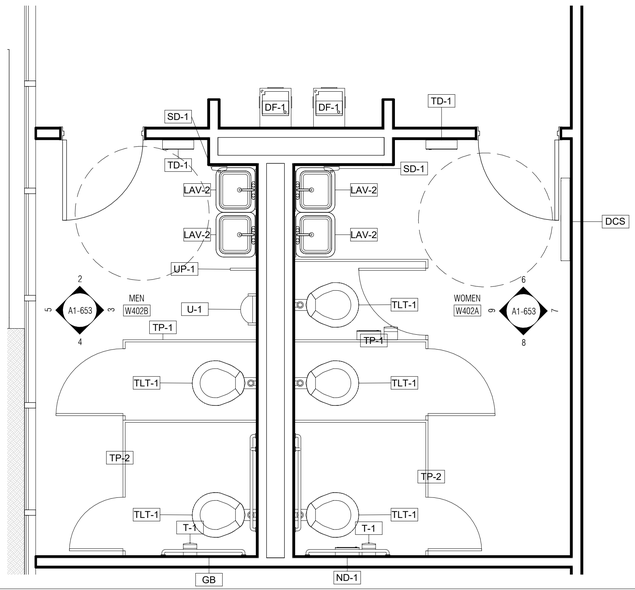
4 MENS W488C SOUTH
3/8" = 1'-0"



3 MENS W488C EAST
3/8" = 1'-0"



2 MENS W488C NORTH
3/8" = 1'-0"



1 LEVEL 04 BATHROOMS
3/8" = 1'-0"

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ARCHITECT:
ARQUITECTONICA
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TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
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FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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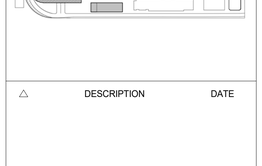
PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 04 RESTROOMS

PROJECT NUMBER: 010326.000
DATE: 08/19/22
SCALE: 3/8" = 1'-0"

SHEET
A1-653

8/26/2022 5:29:08 PM

NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
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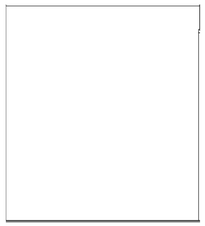
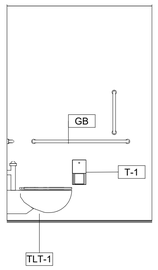
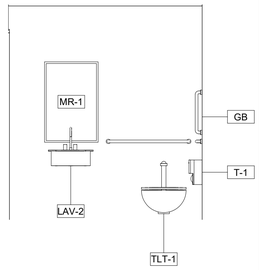
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



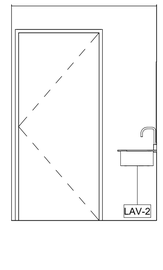
9 MENS W409 SOUTH
3/8" = 1'-0"



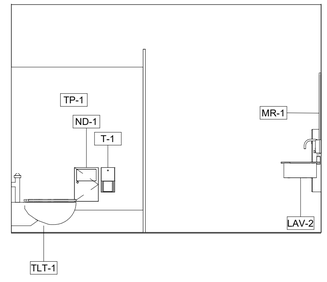
8 MENS W409 EAST
3/8" = 1'-0"



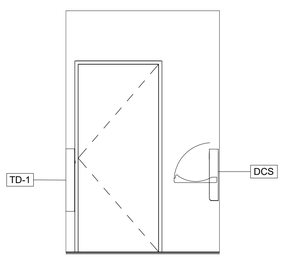
7 MENS W409 NORTH
3/8" = 1'-0"



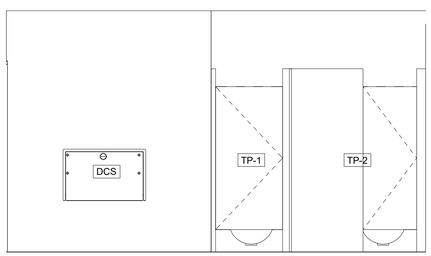
6 MENS W409 WEST
3/8" = 1'-0"



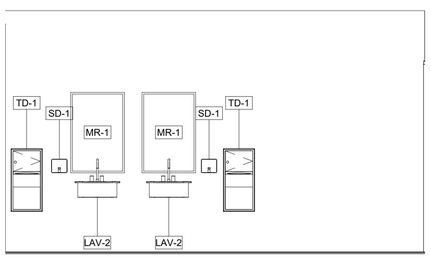
5 WOMENS W410 EAST
3/8" = 1'-0"



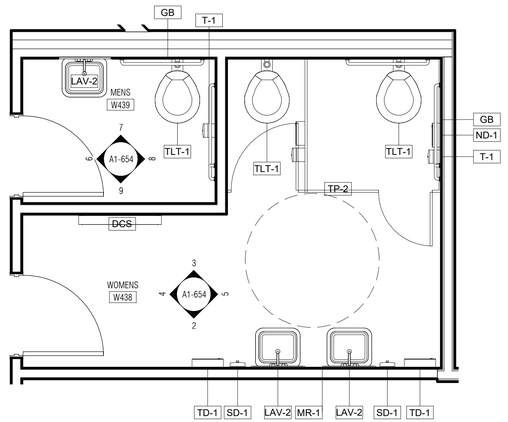
4 WOMENS W410 WEST
3/8" = 1'-0"



3 WOMENS W410 NORTH
3/8" = 1'-0"



2 WOMENS W410 SOUTH
3/8" = 1'-0"



1 LEVEL 04 - BATHROOMS - VIP
3/8" = 1'-0"

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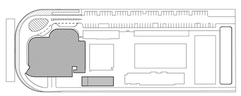
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 04 RESTROOMS

PROJECT NUMBER: 010326.000
DATE: 08/19/22
SCALE: 3/8" = 1'-0"

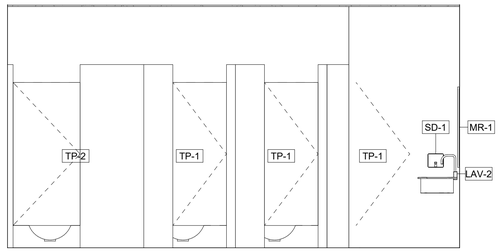
SHEET
A1-654

8/26/2022 5:29:17 PM

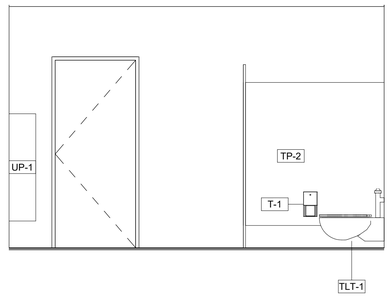
NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

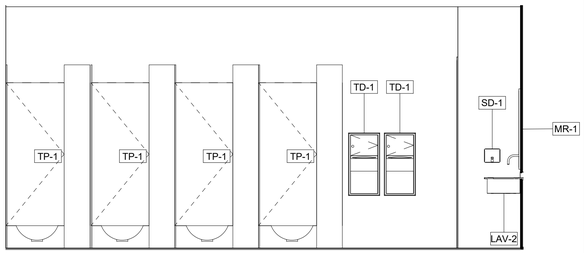
CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
ND-1	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK: B-270
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



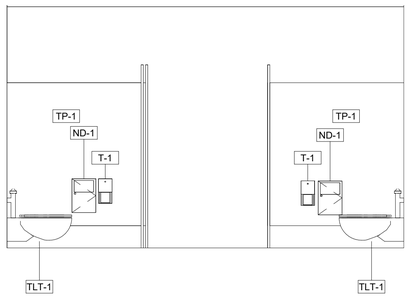
9 MENS W489 EAST
3/8" = 1'-0"



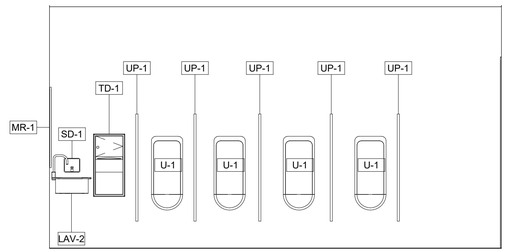
8 MENS W489 NORTH
3/8" = 1'-0"



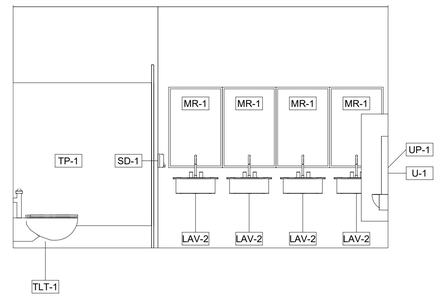
5 WOMENS W488 WEST
3/8" = 1'-0"



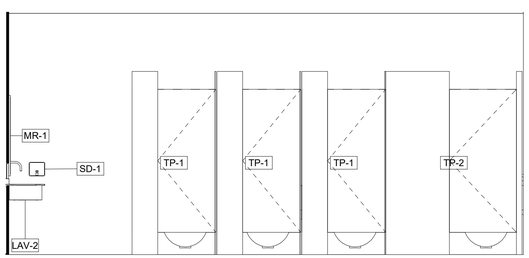
4 WOMENS W488 SOUTH
3/8" = 1'-0"



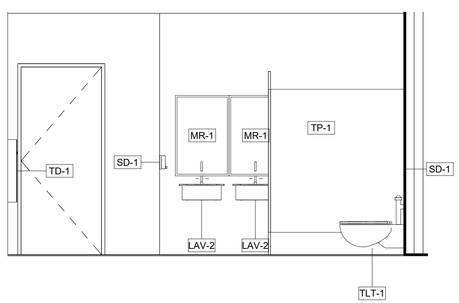
7 MENS W489 WEST
3/8" = 1'-0"



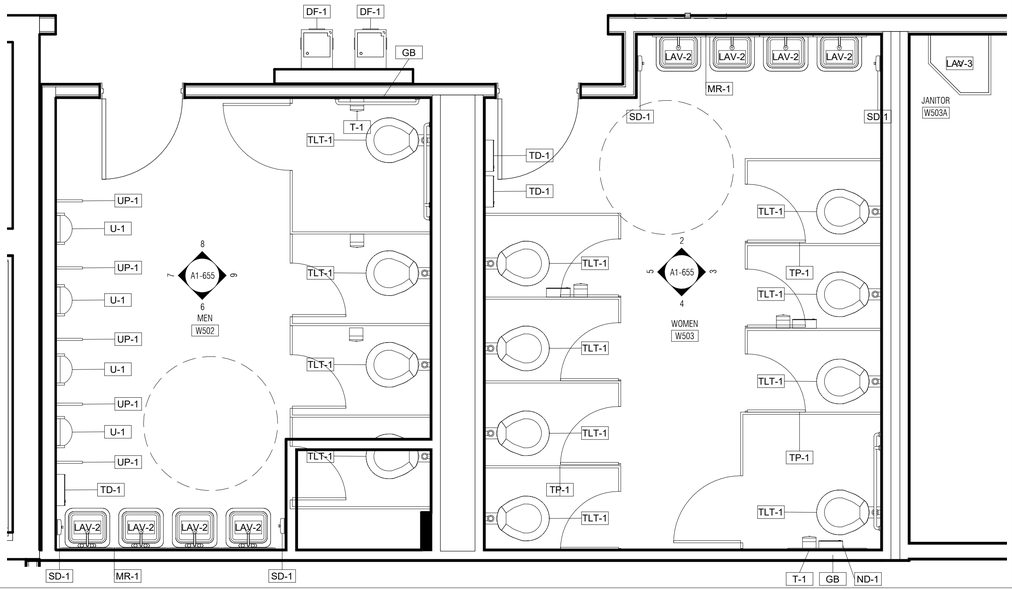
6 MENS W489 SOUTH
3/8" = 1'-0"



3 WOMENS W488 EAST
3/8" = 1'-0"



2 WOMENS W488 NORTH
3/8" = 1'-0"



1 LEVEL 05 - BATHROOMS
3/8" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
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PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 05 RESTROOMS

PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 3/8" = 1'-0"

SHEET
A1-655

8/26/2022 5:29:23 PM

NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

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GB-1	42" GRAB BAR	BOBRICK: B-6806X42
GB-2	36" GRAB BAR	BOBRICK: B-6806X36
GB-3	24" GRAB BAR	BOBRICK: B-6806X24
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LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
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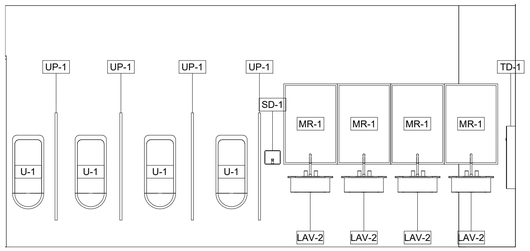
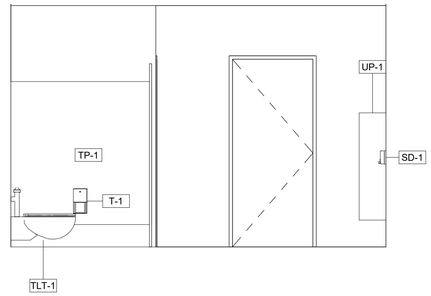
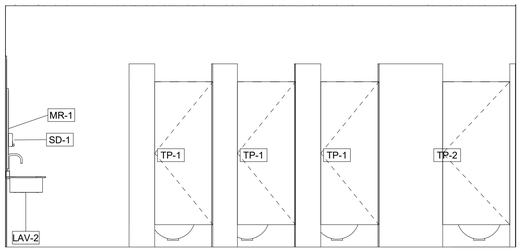
SD-1	SOAP DISPENSER	BOBRICK: B-2111
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



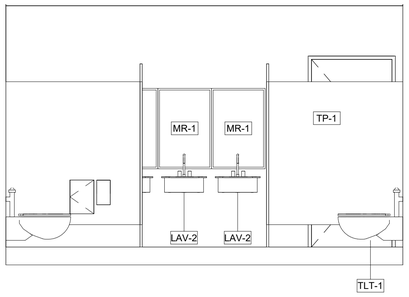
9 MENS W5M01B WEST
3/8" = 1'-0"



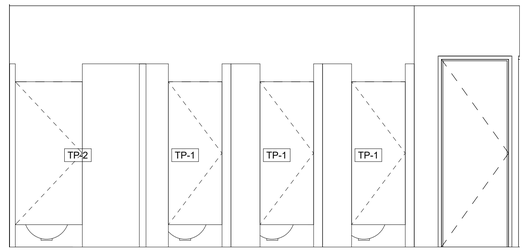
8 MENS W5M01B SOUTH
3/8" = 1'-0"



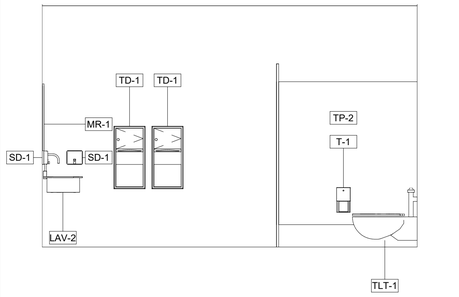
5 WOMENS W5M01A WEST
3/8" = 1'-0"



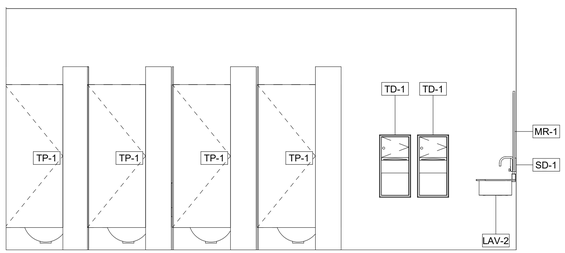
4 WOMENS W5M01A SOUTH
3/8" = 1'-0"



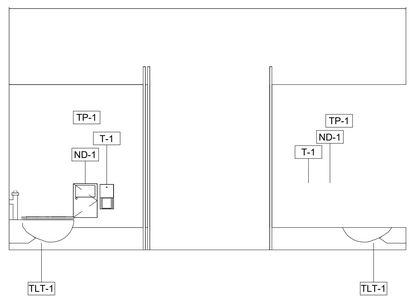
7 MENS W5M01B EAST
3/8" = 1'-0"



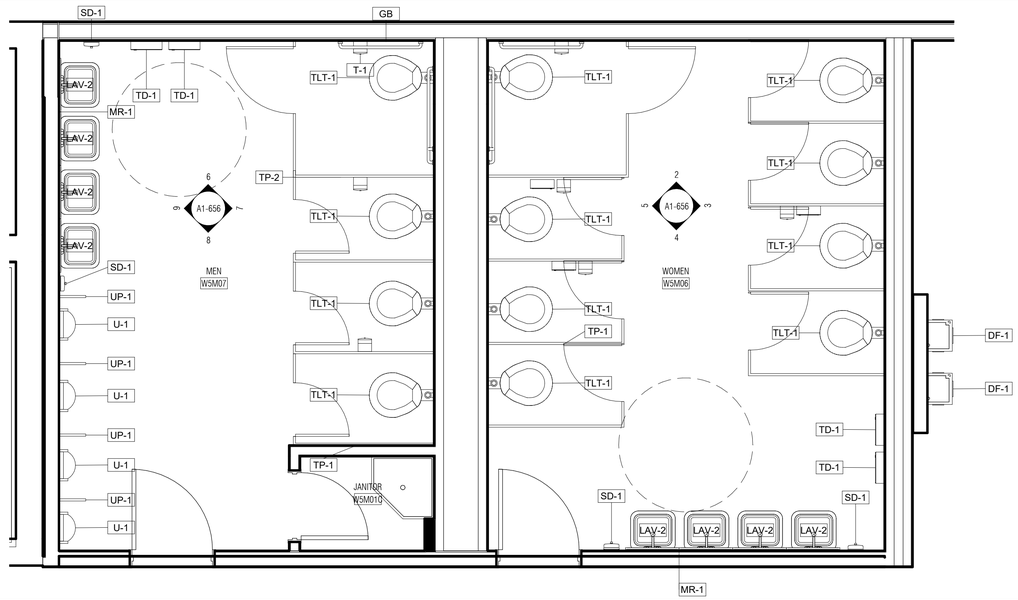
6 MENS W5M01B NORTH
3/8" = 1'-0"



3 WOMENS W5M01A EAST
3/8" = 1'-0"



2 WOMENS W5M01A NORTH
3/8" = 1'-0"



1 LEVEL 05 MEZZ - FLOOR PLAN
3/8" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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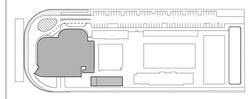
PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
LVL 05 MEZZ. RESTROOMS

PROJECT NUMBER: 010326.000
DATE: 08/22/22
SCALE: 3/8" = 1'-0"

SHEET
A1-656

8/26/2022 5:29:31 PM

NOTE: REFER TO G1-004 AND G1-005
FOR TYPICAL DIMENSIONS
SEE PLUMBING PLANS FOR MORE
INFORMATION

TOILET ACCESSORIES SCHEDULE

CODE	ACCESSORY	MANUFACTURER
GB-1	42" GRAB BAR	BOBRICK: B-6806X42
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GB-3	24" GRAB BAR	BOBRICK: B-6806X24
LAV-1	TRIPLE BASIN SINK STATION	
LAV-2	SINGLE WALL-MOUNTED SINK	KHOLER PURIS
LAV-3	MOP SINK	
DCS	DIAPER CHANGING STATION	KOALA KARE: KB110-SSWM
TD-1	PAPER TOWEL DISPENSER	BOBRICK: B-262
MI-1	MIRROR 18" X 36"	BOBRICK: B-290
MI-2	MIRROR 36"H X 30"W	ASI 0600 TYPE 304 SS ANGLE FRAME MIRROR
ND-1	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK: B-270
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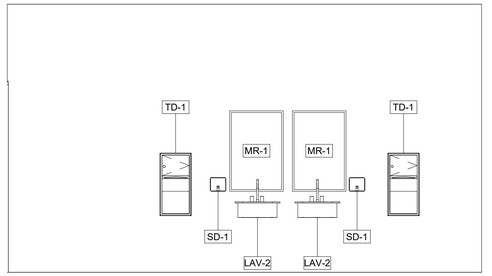
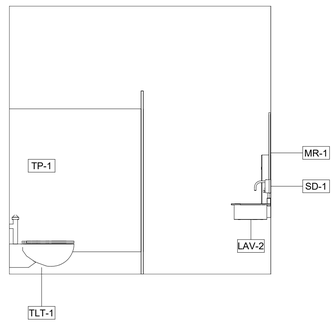
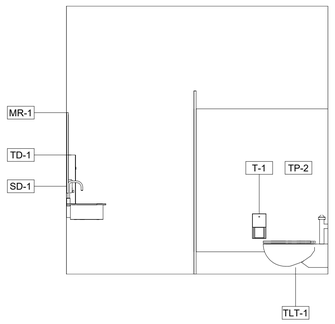
TP-1	TOILET PARTITION	SCRANTON HINY HINDERS
SH-1	SHOWER	FREEDOM ADA TRANSFER SHOWER
DF-1	DRINKING FOUNTAIN	
TLT-1	WALL MOUNTED TOILET	
U-1	WALL MOUNTED URINAL	
T-1	TOILET PAPER DISPENSER	BOBRICK: B-3588
UP-1	URINAL SCREEN	
L-1	LOCKER	SCRANTON TUFFTEC



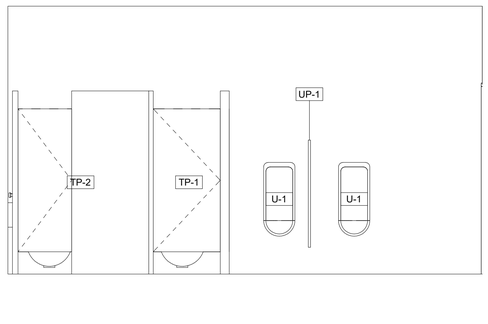
9 MENS W604 WEST
3/8" = 1'-0"



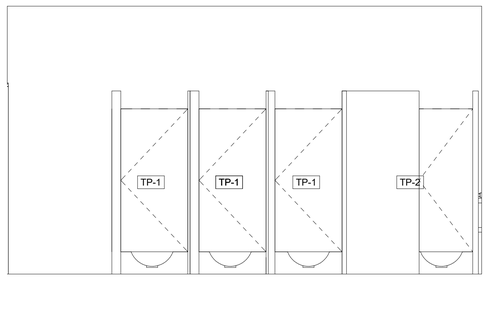
8 MENS W604 SOUTH
3/8" = 1'-0"



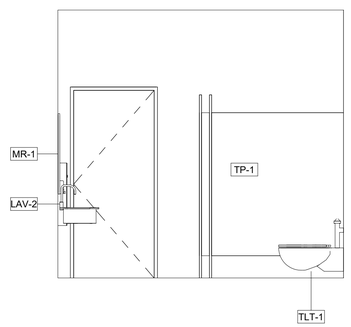
6 MENS W604 NORTH
3/8" = 1'-0"



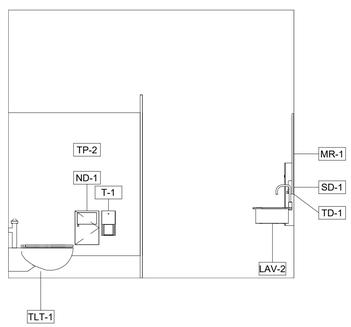
7 MENS W604 EAST
3/8" = 1'-0"



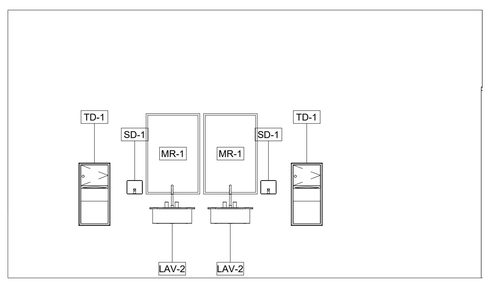
5 WOMENS W605 WEST
3/8" = 1'-0"



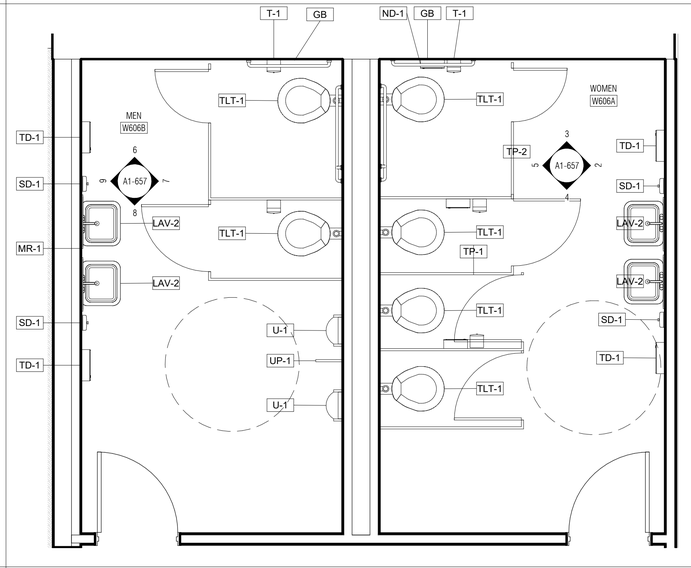
4 WOMENS W605 SOUTH
3/8" = 1'-0"



3 WOMENS W605 NORTH
3/8" = 1'-0"



2 WOMENS W605 EAST
3/8" = 1'-0"



1 LEVEL 06 - BATHROOMS - RESTAURANT
3/8" = 1'-0"

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2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

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PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

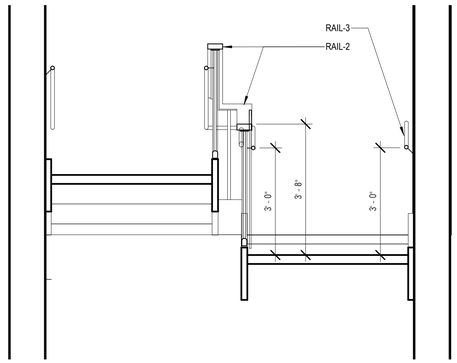
PROJECT NORTH:

DRAWING TITLE
LVL 06 RESTROOMS

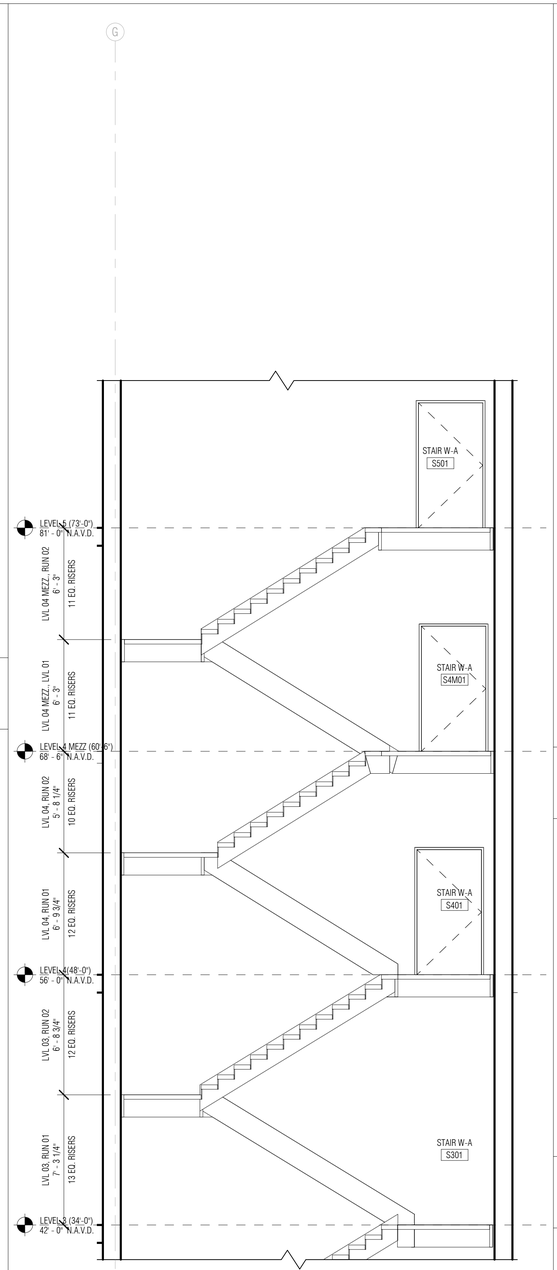
PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 3/8" = 1'-0"

SHEET
A1-657

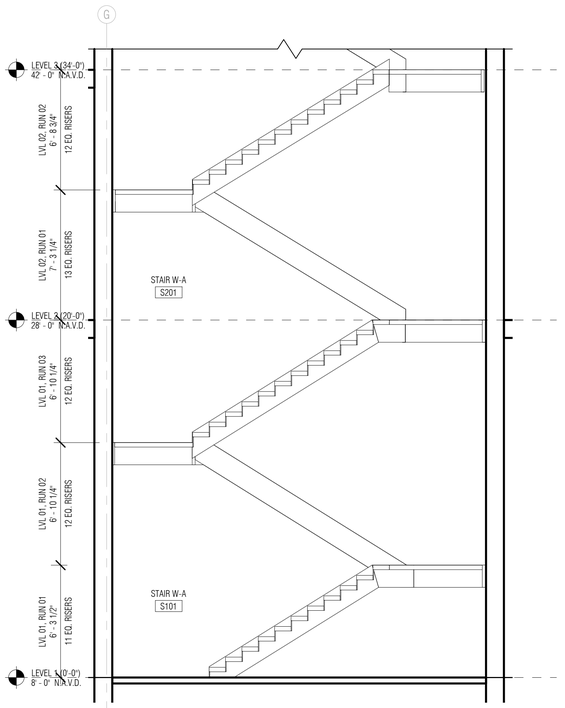
8/26/2022 5:29:37 PM



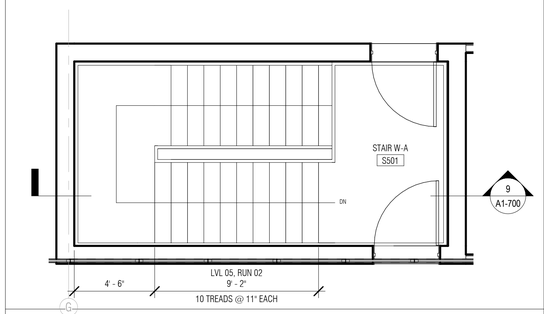
8 ENLARGED SECTION_TYPICAL_STAIR
1/2" = 1'-0"



9 ENLARGED SECTION_ STAIR W-A @ UPPER LEVELS
1/4" = 1'-0"

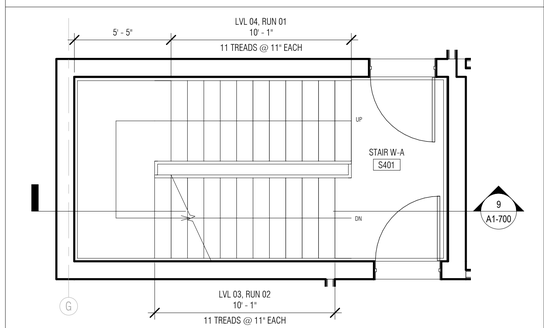


10 ENLARGED SECTION_ STAIR W-A @ LOWER LEVELS
1/4" = 1'-0"



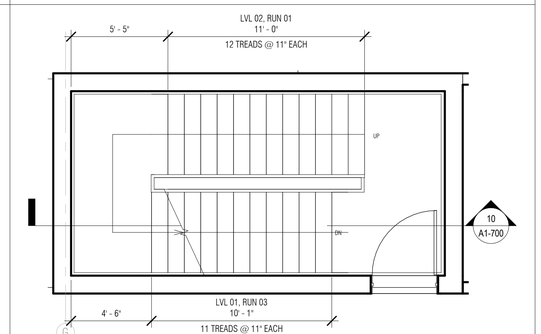
6 STAIR W-A - ENLARGED PLAN - LVL 05
1/4" = 1'-0"

5 STAIR W-A - ENLARGED PLAN - LVL 04 MEZZ.
1/4" = 1'-0"

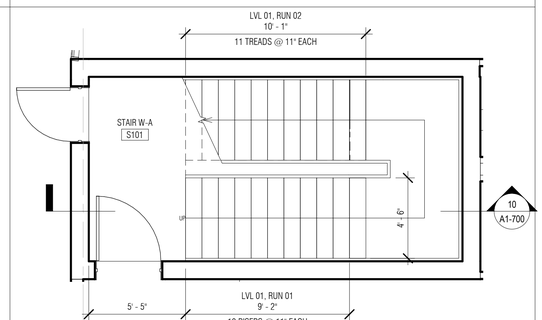


4 STAIR W-A - ENLARGED PLAN - LVL 04
1/4" = 1'-0"

3 STAIR W-A - ENLARGED PLAN - LVL 03
1/4" = 1'-0"



2 STAIR W-A - ENLARGED PLAN - LVL 02
1/4" = 1'-0"



1 STAIR W-A - ENLARGED PLAN - LVL 01 LOWER
1/4" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

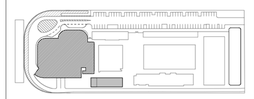
FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

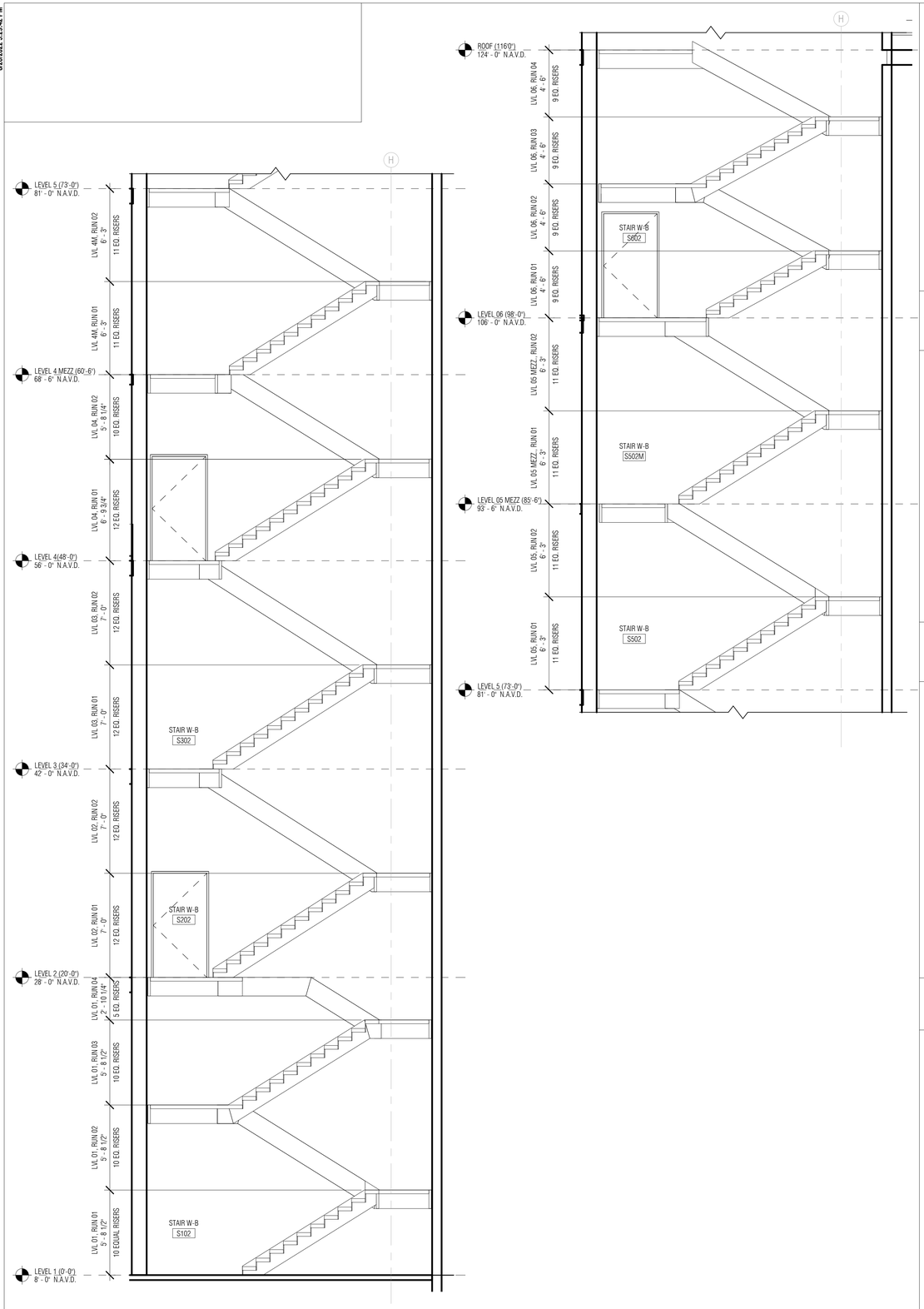
PROJECT NORTH:

DRAWING TITLE
STAIR W-A

PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: As indicated

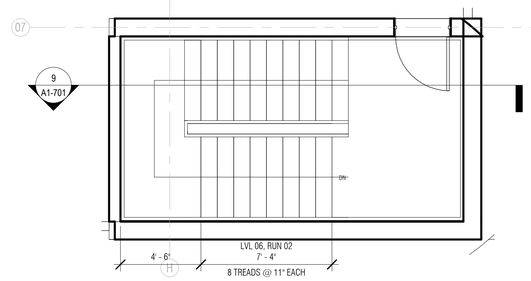
SHEET
A1-700

8/26/2022 5:29:42 PM

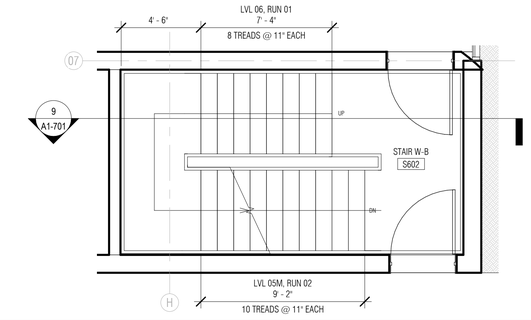


10 ENLARGED SECTION_ STAIR W-B @ LOWER LEVELS
1/4" = 1'-0"

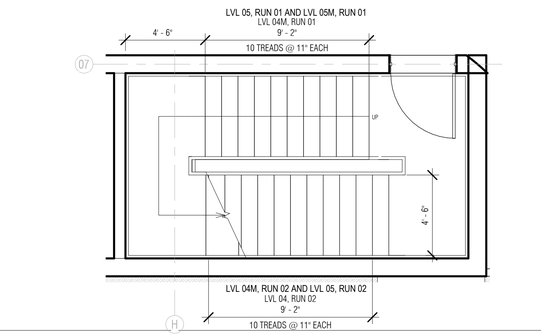
9 ENLARGED SECTION_ STAIR W-B @ UPPER LEVELS
1/4" = 1'-0"



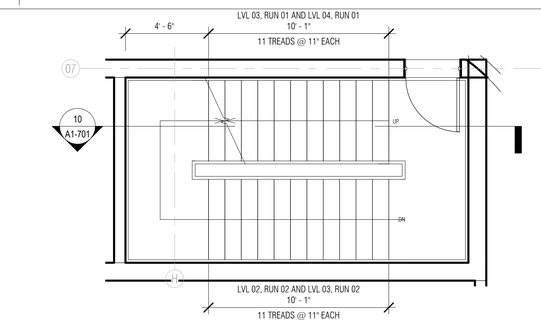
7 STAIR W-B - ENLARGED PLANS - ROOF
1/4" = 1'-0"



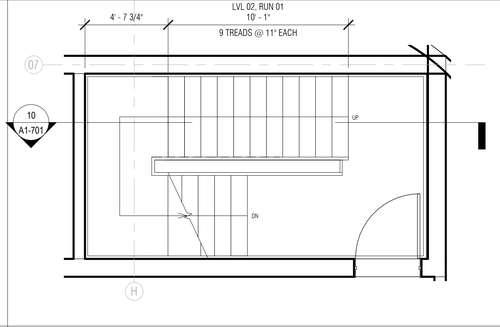
6 STAIR W-B - ENLARGED PLANS - LVL 06
1/4" = 1'-0"



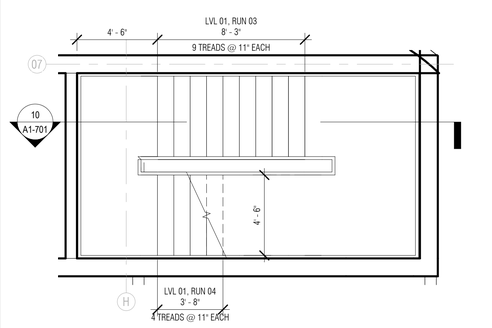
5 STAIR W-B - ENLARGED PLANS - LVL 04M, 05, AND 05M
1/4" = 1'-0"



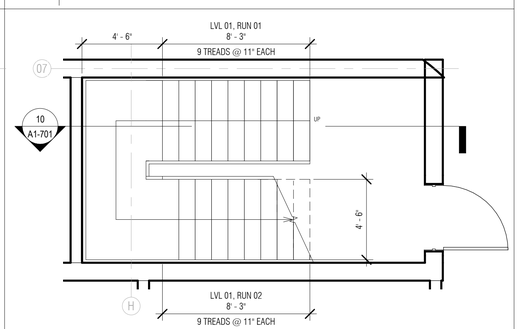
4 STAIR W-B - ENLARGED PLANS - LVL 03 AND 04
1/4" = 1'-0"



3 STAIR W-B - ENLARGED PLANS - LVL 02
1/4" = 1'-0"



2 STAIR W-B - ENLARGED PLANS - LVL 01 UPPER.
1/4" = 1'-0"



1 STAIR W-B - ENLARGED PLANS - LVL 01 LOWER
1/4" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

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THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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KAMM CONSULTING
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DEERFIELD BEACH, FL 33442
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FORT LAUDERDALE, FL 33316
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CORAL GABLES, FL, 33134
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FACADE CONSULTANT:
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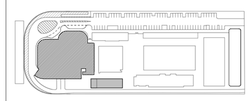
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

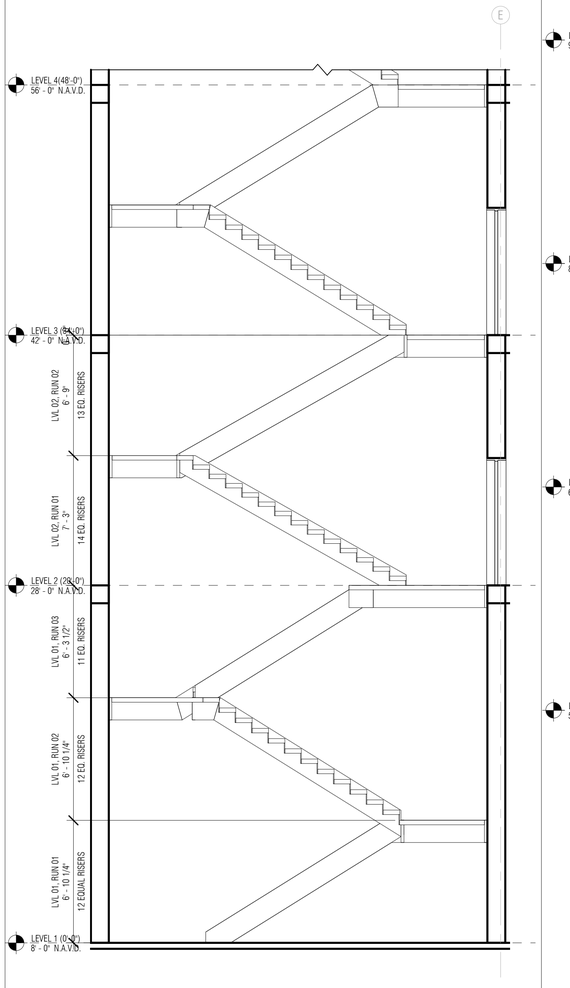
PROJECT NORTH:

DRAWING TITLE
STAIR W-B

PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 1/4" = 1'-0"

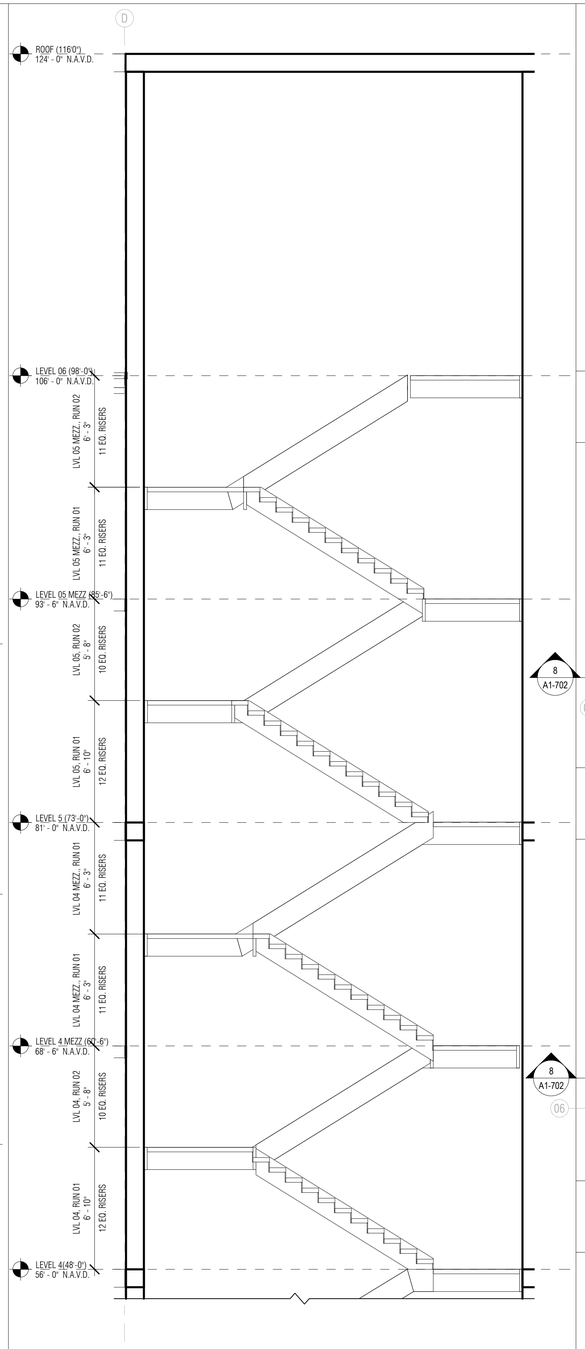
SHEET
A1-701

8/26/2022 5:29:48 PM



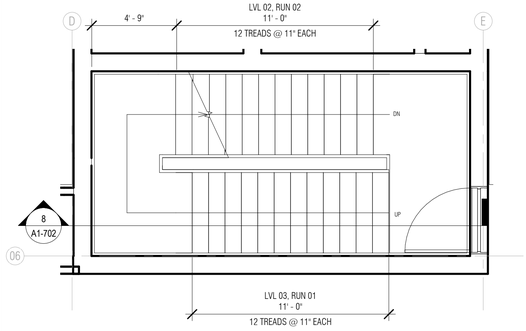
9 ENLARGED SECTION_STAIR W-C @ LOWER LEVELS

1/4" = 1'-0"



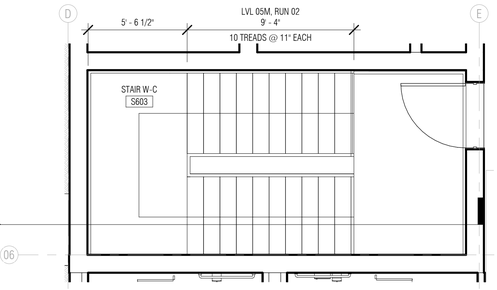
8 ENLARGED SECTION_STAIR W-C @ UPPER LEVELS

1/4" = 1'-0"



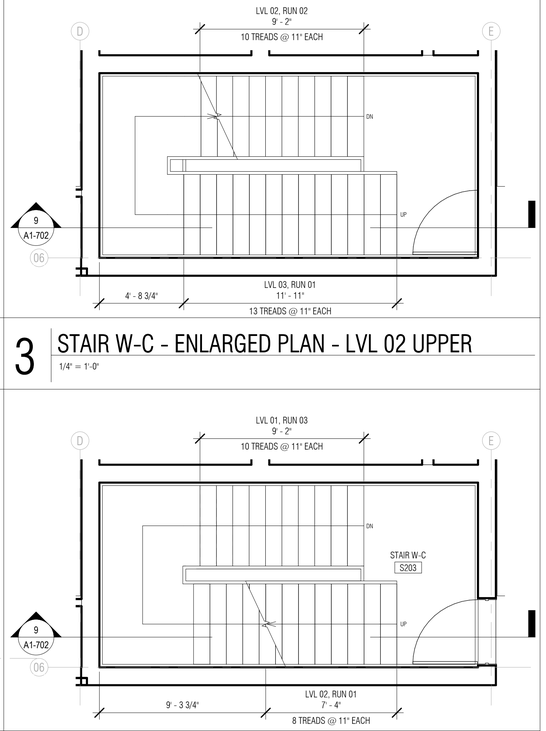
4 STAIR W-C - ENLARGED PLAN - LVL 03

1/4" = 1'-0"



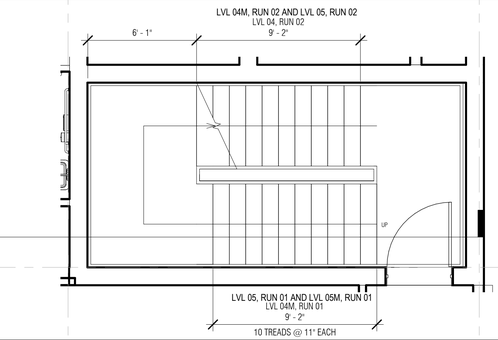
7 STAIR W-C - ENLARGED PLAN - LVL 06

1/4" = 1'-0"



3 STAIR W-C - ENLARGED PLAN - LVL 02 UPPER

1/4" = 1'-0"

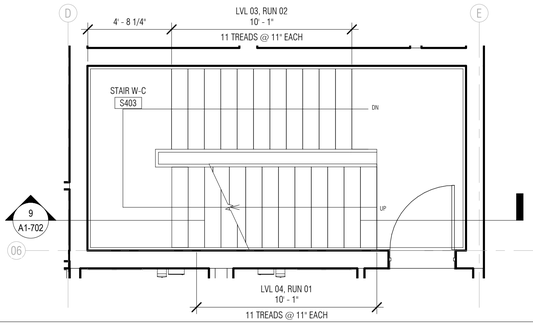


6 STAIR W-C - ENLARGED PLAN - LVL 04M, 05, 05M

1/4" = 1'-0"

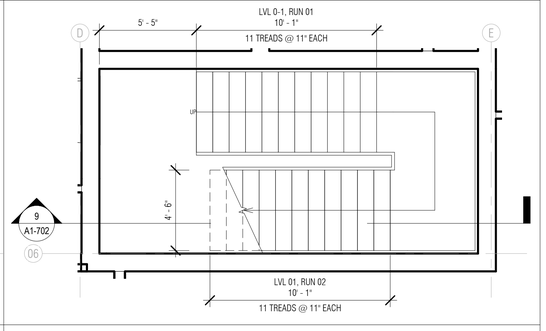
2 STAIR W-C - ENLARGED PLAN - LVL 02

1/4" = 1'-0"



5 STAIR W-C - ENLARGED PLAN - LVL 04

1/4" = 1'-0"



1 STAIR W-C - ENLARGED PLAN - LVL 01

1/4" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
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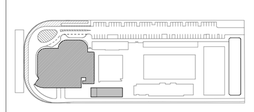
PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

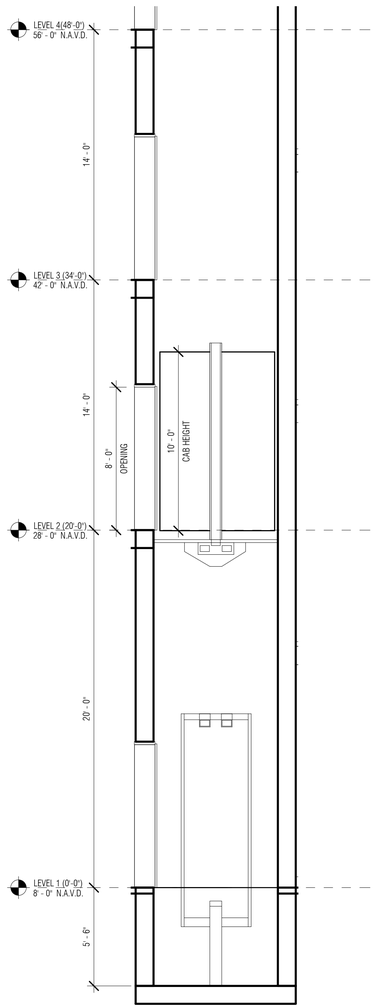
DRAWING TITLE
STAIR W-C

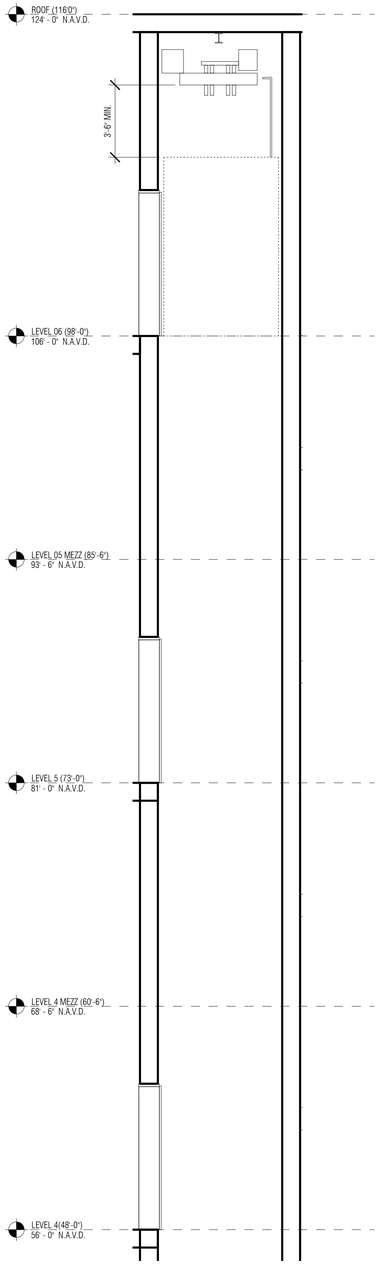
PROJECT NUMBER: 010326.000
DATE: 02/22/22
SCALE: 1/4" = 1'-0"

SHEET
A1-702

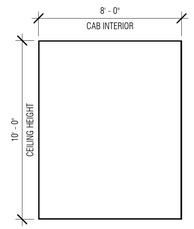
CAM 23-0723
Exhibit 1M
Page 73 of 169

8/26/2022 6:14:53 PM

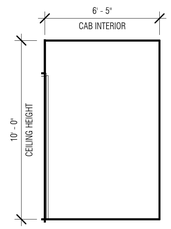




6 ENLARGED SECTION - ELEVATOR
1/4" = 1'-0"



5 SOUTH INT. ELEVATION - ELEV.
1/4" = 1'-0"



4 EAST INT. ELEVATION - ELEV.
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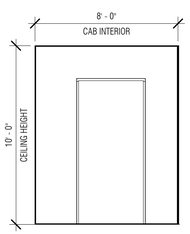
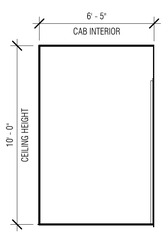
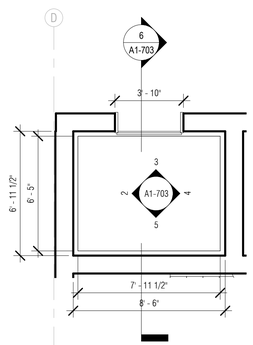


3 NORTH INT. ELEVATION - ELEV.
1/4" = 1'-0"



2 WEST INT. ELEVATION - ELEV.
1/4" = 1'-0"



1 ENLARGED ELEVATOR PLAN
1/4" = 1'-0"

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PROJECT
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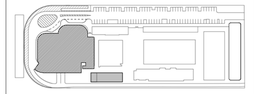
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

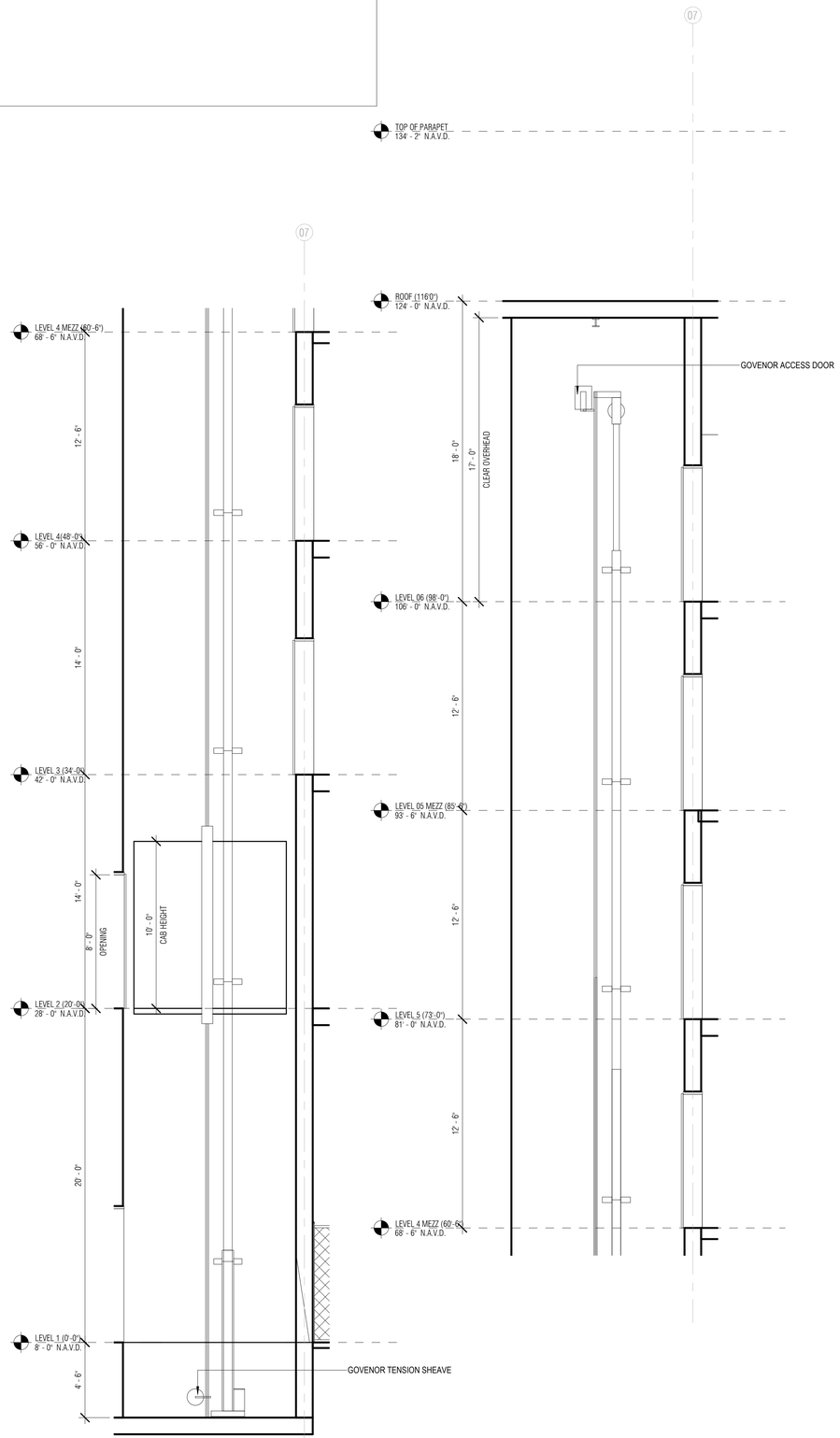
PROJECT NORTH:

DRAWING TITLE
ELEVATOR PLANS AND DETAILS

PROJECT NUMBER: 010326.000
DATE: 08/26/22
SCALE: 1/4" = 1'-0"

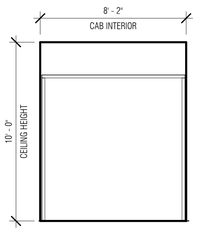
SHEET
A1-703

8/26/2022 6:35:10 PM



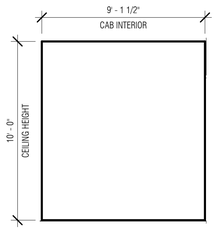
8 ENLARGED SECTION - FREIGHT ELEVATOR

1/4" = 1'-0"



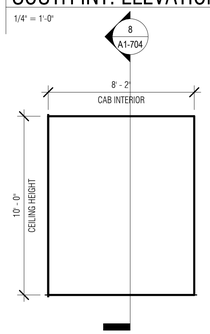
5 SOUTH INT. ELEVATION - FREIGHT

1/4" = 1'-0"



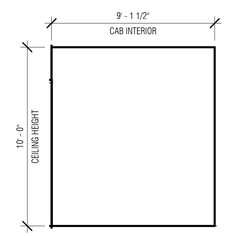
4 EAST INT. ELEVATION - FREIGHT

1/4" = 1'-0"



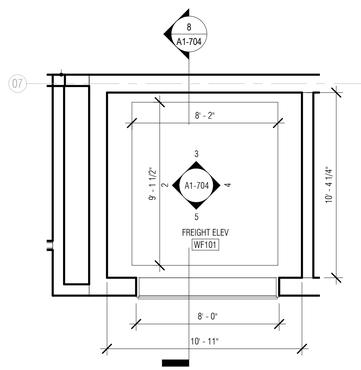
3 NORTH INT. ELEVATION - FREIGHT

1/4" = 1'-0"



2 WEST INT. ELEVATION - FREIGHT

1/4" = 1'-0"



1 ENLARGED FREIGHT ELEVATOR PLAN

1/4" = 1'-0"

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
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1407 WEST NEWPORT CENTER DR.
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TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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TEL:305.859.0161

FACADE CONSULTANT:
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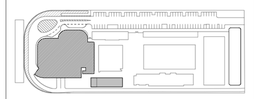
TEL:713.467.4440

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



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FREIGHT ELEVATOR PLANS AND DETAILS

PROJECT NUMBER: 010326.000
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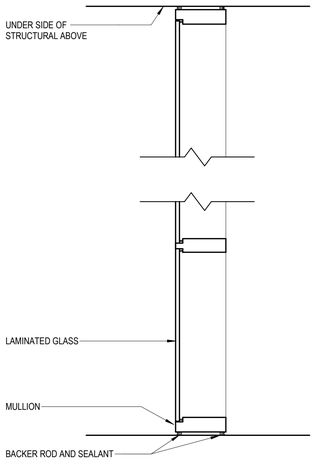
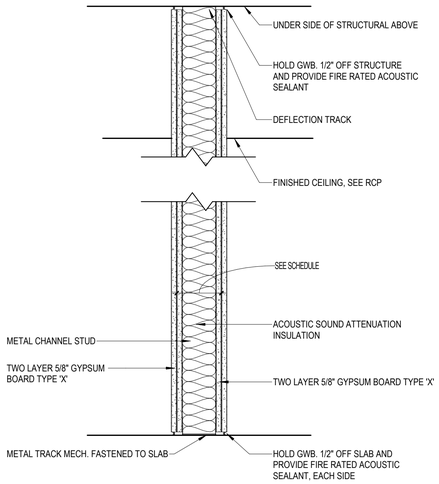
SHEET

A1-704

8/26/2022 5:29:51 PM

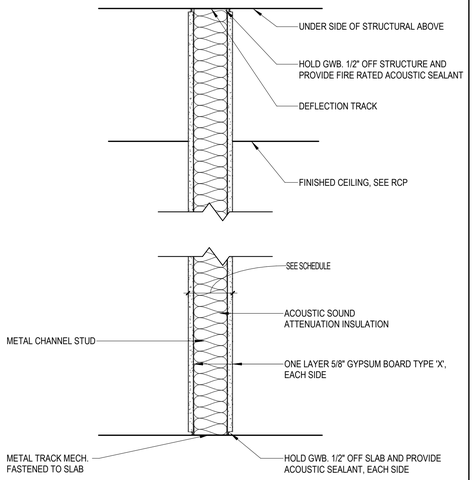


TYPE	NOMINAL THICKNESS	MULLION SPACING
0.59	5"	48"
0.89	8"	48"



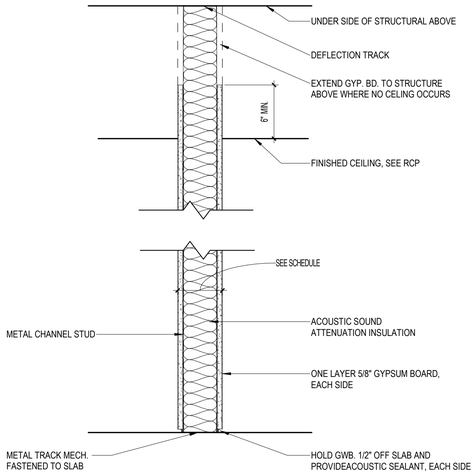
TYPE	STUD TYPE	STUD SPACING	PARTITION WIDTH	UL ASSEMBLY
2.22	2 1/2" - 25 GA.	16 O.C.	3 3/4"	U419
2.42	3 5/8" - 16 GA.	16 O.C.	6 1/8"	U419
2.62	6" - 16 GA.	16 O.C.	8 1/2"	U419

7. TWO HOUR RATED PARTITION



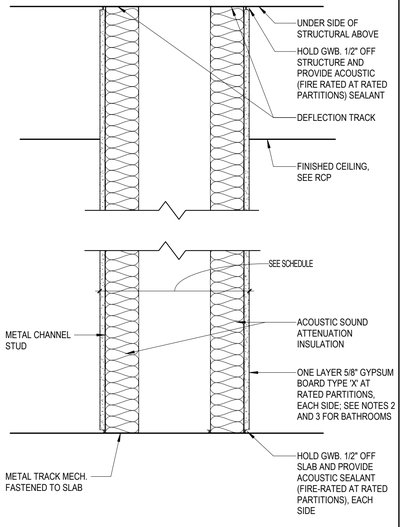
TYPE	STUD TYPE	STUD SPACING	PARTITION WIDTH	UL ASSEMBLY
1.42	3 5/8" - 16 GA.	16 O.C.	5 7/8"	U419
1.62	6" - 16 GA.	16 O.C.	7 1/4"	U419

6. ONE HOUR RATED PARTITION



TYPE	STUD TYPE	STUD SPACING	PARTITION WIDTH	UL ASSEMBLY
0.42	3 5/8" - 16 GA.	16 O.C.	5 7/8"	NA
0.62	6" - 16 GA.	16 O.C.	7 1/4"	NA

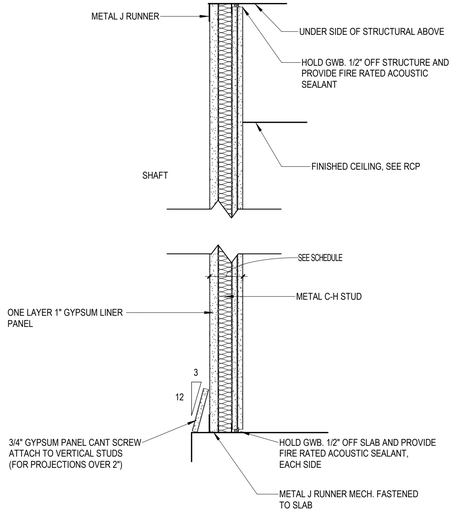
5. NON-RATED PARTITION



SEE NOTES 2 & 3 FOR RESTROOMS

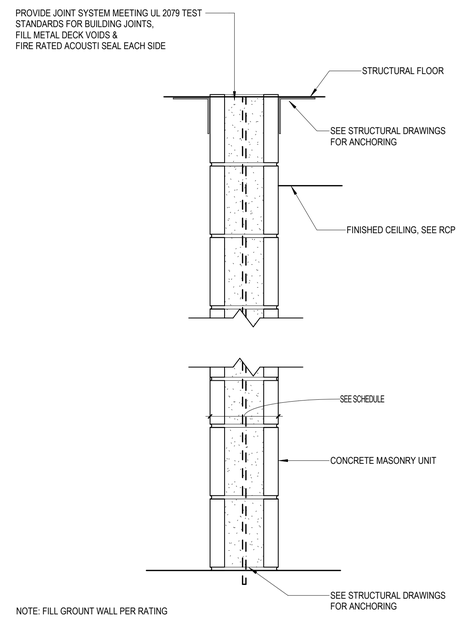
TYPE	STUD TYPE	CLR SPACE BETWN STUDS	PARTITION WIDTH	UL ASSEMBLY
0.45A	3 5/8" - 16 GA.	4"	12 1/2"	NA
0.45B	3 5/8" - 16 GA.	8"	16 1/2"	NA
0.45C	3 5/8" - 16 GA.	15 1/2"	24"	NA
2.45B	3 5/8" - 16 GA.	8"	16 1/2"	U419

4. PLUMBING WALL PARTITION - NON-RATED AND 2HR



TYPE	STUD TYPE	STUD SPACING	PARTITION WIDTH	UL ASSEMBLY
2.23S	2 1/2" - 25 GA.	16 O.C.	4 3/4"	U415
2.43S	4" - 16 GA.	16 O.C.	6 1/4"	U415
2.63S	6" - 16 GA.	16 O.C.	8 1/4"	U415

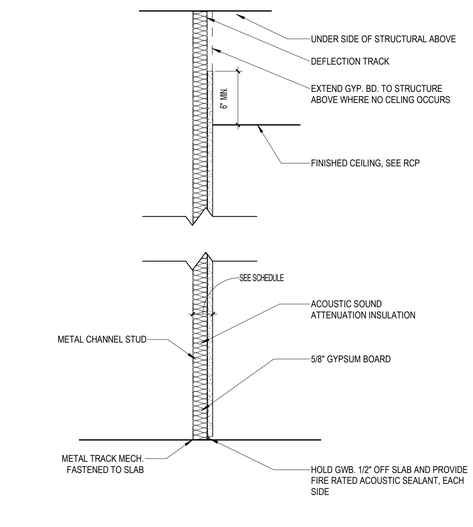
3. TWO HOUR SHAFT WALL



NOTE: FILL GROUNT WALL PER RATING

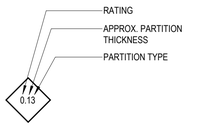
TYPE	MASONRY TYPE	STUD SPACING	PARTITION WIDTH	UL ASSEMBLY
2.64	6" CMU	N/A	5 5/8"	U906
2.84	8" CMU	N/A	7 5/8"	U905

2. MASONRY PARTITION



TYPE	STUD TYPE	STUD SPACING	PARTITION WIDTH	UL ASSEMBLY
0.11	7/8" HC - 25 GA.	16 O.C.	1 1/2"	N/A
0.21	2 1/2" - 25 GA.	16 O.C.	3 1/8"	N/A
0.61	6" - 16 GA.	16 O.C.	6 5/8"	N/A

1. NON-RATED FURRING PARTITION



NOTES:

1. ALL GYPSUM WALL BOARD TYPE X UNLESS OTHERWISE NOTED

2. AT BATHROOMS, REPLACE TOP LAYER OF GWB WITH WATER RESISTANT GWB. (PROVIDE FULL HEIGHT WATER RESISTANT GWB FOR ALL WALLS IN RESTROOMS AND ALL WALLS WITHIN JANITORS CLOSETS - IN LIEU OF GWB (MATCH THICKNESS OF GWB NOTED IN DETAIL). USE THE SAME FIRE RESISTANCE AS SCHEDULED, IF A FIRE RATED PARTITION.)

3. PROVIDE FULL HEIGHT CEMENT BOARD / CEMENTITIOUS BACKER UNIT FOR ALL TILED WALLS - IN LIEU OF GWB (MATCH THICKNESS OF GWB NOTED IN DETAIL). USE THE SAME FIRE RESISTANCE AS SCHEDULED, IF A FIRE PARTITION. VERIFY WITH SPECIFICATIONS.

3. CONTRACTOR TO COORDINATE STUD SPACING WITH MEPF DRAWINGS, TO ACCOMODATE DUCT, PIPE, AND CONDUIT PENETRATIONS.

4. ALL PARTITIONS TO BE FRAMED PLUMB & TRUE.

4. WHERE WALL CHASE OCCURS, PROVIDE ACCOUSTICAL BATT INSULATION SURROUNDING PIPES.

5. FURRING WALLS TO BE FRAMED PLUMB AND TRUE, OR USE SHIMMED WALL RUNNERS AS REQ'D. CONTRACTOR TO COORDINATE NECESSARY CLEARANCE FOR OUTLETS & SERVICE PIPING.

5. SEAL ALL OPENINGS, GAPS, PENETRATIONS, AND JOINTS IN PARTITION TYPES.

6. FIRE RATED PARTITIONS AND SMOKE BARRIERS: SEAL IN ACCORDANCES WITH THE REQUIREMENTS SPECIFIED IN THE DIVISION 07 SPECIFICATION SECTIONS FOR PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINT SYSTEMS. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF SMOKE BARRIERS.

7. PARTITIONS DESIGNED TO RESIST THE PASSAGE OF SMOKE:
SEAL COMPLETELY WITH ELASTOMERIC SEALANT. FOR THE LOCATION AND EXTENT REFER TO CODE COMPLIANCE DRAWINGS.

8. SEE FINISH SCHEDULE FOR WALL BASE INFORMATION.

8. FOR FINISHES: SEE FINISH SCHEDULE.

9. PROVIDE ALL CLIPS AT FIREPROOFED STRUCTURAL STEEL FOR METAL STUD WORK. SEE SPECIFICATIONS FOR FIRE STOPPING PRODUCTS AND INSTALLATION INFORMATION. PROVIDE FIRE STOPPING AT TOP & BOTTOM ENDS OF WALLS @ ALL INTERSECTIONS AND PENETRATIONS AT FIRE RATED AND/OR SMOKE PARTITIONS, AS IN CONFORMANCE WITH THE UNDERWRITERS LABORATORIES (U.L.) DETAILS, NFPA, ICC, AND APPLICABLE BUILDING CODES.

10. PROVIDE BLOCKING BEHIND ANY WALL HUNG ITEM. SEE DETAIL IN PARTITION DETAILS. (MINIMUM OF 18" ABOVE AND BELOW WALL HUNG ITEM, U.O.N.)

11. FOR ALL ACOUSTICALLY SENSITIVE & ISOLATED SPACES, PARTITIONS TO EXTEND UP TO SLAB ABOVE, UNLESS OTHERWISE NOTED.

12. SEE SPECIFICATIONS FOR ALL METAL STUD GAUGES.

13. FLOOR AND CEILING TYPES SHOWN ON THIS SHEET ARE FOR DIAGRAMMATIC PURPOSES ONLY. FOR ACTUAL FLOOR AND CEILING TYPES, SEE FINISH SCHEDULE AND DRAWINGS.

14. PROVIDE STIFFENER STUD TO STUD IN ALL PARTITIONS @ 48" O.C. WHERE NO CEILING EXISTS ON BOTH SIDES OF THE PARTITION, LENGTH OF STIFFENER TO EQUAL 1/3 RD THE HEIGHT OF STUD PARTITION. SECURE THE STIFFENER TO THE STUD WITH FOUR (4) #8 PAN HEAD FASTENERS AT THE TOP AND FOUR (4) AT THE BOTTOM OF THE STIFFENER IN A SQUARE PATTERN.

15. THICKNESS OF SOUND ATTENUATION BATTS / GLASS FIBER INSULATION TO MATCH DEPTH OF STUD CAVITY UNLESS OTHERWISE NOTED.

16. DO NOT BREAK THE PAPER OF THE GYPSUM BOARD WITH THE HEAD OF THE FASTENER.

17. MAINTAIN A 3/4" GAP BETWEEN THE GWB AND TOP RUNNER TRACK TO ALLOW FOR DEFLECTION AT THE TOP OF THE WALL AND UNDERSIDE OF BEAMS / JOISTS / DECK.

18. SEE LIFE SAFETY PLANS FOR LOCATION OF FIRE RATED PARTITIONS.

19. SEE PARTITION DETAILS FOR ADDITIONAL INSULATION INFORMATION.

20. PROVIDE DIAGONAL BRACING ABOVE CEILING @ 3'-0" O.C. FOR PARTITION HEIGHTS GREATER THAN 15'-0". FASTEN @ 8" O.C. TO EDGES AND 12" O.C. TO INTERMEDIATE STUDS.

OTHER LOCATIONS:
SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.

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PROJECT
ISHOF - WEST BUILDING
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KEY PLAN:

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PARTITION SCHEDULE

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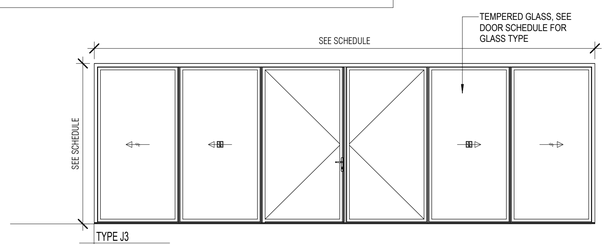
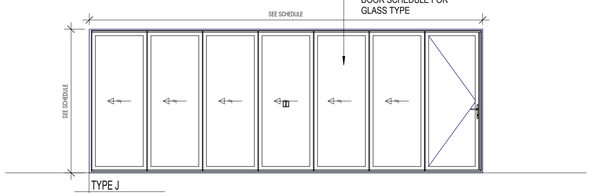
SHEET
A1-800

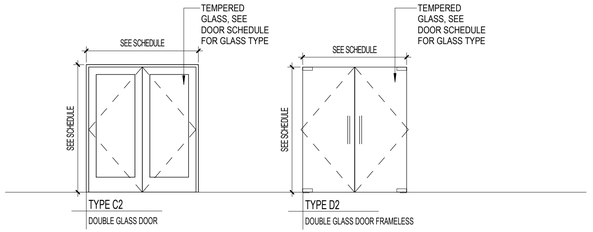
8/26/2022 5:29:55 PM



TYPE J3
FOLDING GLASS DOUBLE DOOR

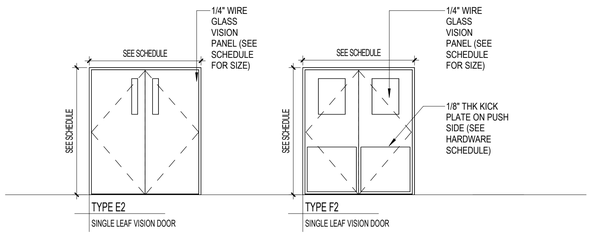


TYPE J
FOLDING GLASS DOOR



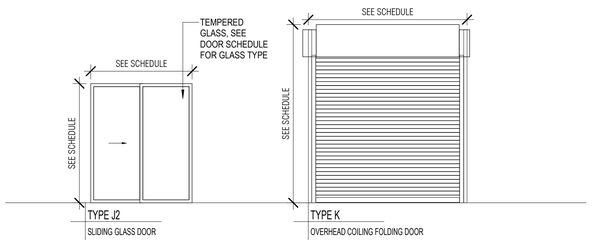
TYPE C2
DOUBLE GLASS DOOR

TYPE D2
DOUBLE GLASS DOOR FRAMELESS



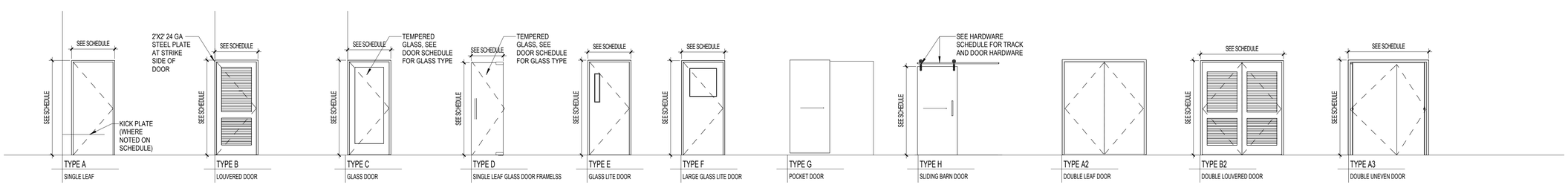
TYPE E2
SINGLE LEAF VISION DOOR

TYPE F2
SINGLE LEAF VISION DOOR



TYPE J2
SLIDING GLASS DOOR

TYPE K
OVERHEAD COILING FOLDING DOOR



TYPE A
SINGLE LEAF

TYPE B
LOUVERED DOOR

TYPE C
GLASS DOOR

TYPE D
SINGLE LEAF GLASS DOOR FRAMELSS

TYPE E
GLASS LITE DOOR

TYPE F
LARGE GLASS LITE DOOR

TYPE G
POCKET DOOR

TYPE H
SLIDING BARN DOOR

TYPE A2
DOUBLE LEAF DOOR

TYPE B2
DOUBLE LOUVERED DOOR

TYPE A3
DOUBLE UNEVEN DOOR

DOOR SCHEDULE

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S101	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2					PANIC HARDWARE	
S101A	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S102	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S103	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
W101	J2	6' - 0"	7' - 0"		AL	N/A						
W103	J2	6' - 0"	7' - 0"		AL	N/A						
W104	J2	6' - 0"	7' - 0"		AL	N/A						
W104A	J2	6' - 0"	7' - 0"		AL	N/A						
W104C	A2	6' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W105	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W106	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W106A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W107	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W108	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W108A	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W108B	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W109	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W113	A2	6' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W113A	A2	6' - 0"	6' - 8"	1 3/4"	HM	PT-2						
W113B	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W113C	K	12' - 0"	8' - 0"	0"								
W114	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W115A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W115B	A2	6' - 0"	6' - 8"	1 3/4"	HM	PT-2						
W116	A2	6' - 0"	6' - 8"	1 3/4"	HM	PT-2						
W116A	A2	6' - 0"	6' - 8"	1 3/4"	HM	PT-2						
W117	A2	6' - 0"	6' - 8"	1 3/4"	HM	PT-2						
W118	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W119	A2	6' - 0"	6' - 8"	1 3/4"	HM	PT-2						
W121	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W122	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W122A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W123A	A	2' - 8"	7' - 0"	1 3/4"	HM	PT-2						
W124	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W125	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W126	C	3' - 0"	7' - 0"									
W126A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W127	C2	6' - 0"	7' - 0"								PANIC HARDWARE	
W127A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W127B	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W129	A2	6' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W129A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W165	A	2' - 8"	7' - 0"	1 3/4"	HM	PT-2						

LEVEL 1 (0'-0")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S201	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S202	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S203	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
W201	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W201A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W201B	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W201C	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						

LEVEL 2 (20'-0")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S301	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S302	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S303	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
W301	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W301A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W301B	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W301C	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W304	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W306	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						

LEVEL 3 (34'-0")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S401A	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S401B	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S402	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S402A	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S403	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
WSM07B	A	3' - 0"	7' - 0"	1 3/4"								
W402	C2	6' - 0"	7' - 0"		HM	N/A						
W402A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W402B	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W402C	C2	6' - 0"	7' - 0"		HM	N/A					PANIC HARDWARE	
W403	C	3' - 0"	7' - 0"		HM	N/A						
W404	A2	6' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W410	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W412	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W413	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W414	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W415	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W416	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W417	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W418	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W419	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W420	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W421	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W422	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W423	A2	6' - 0"	6' - 8"	1 3/4"	HM	N/A						
W424	A2	6' - 0"	7' - 0"	1 3/4"	HM	N/A						
W425	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN		
W426	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W427	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W429	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W429A	C	3' - 0"	7' - 0"		HM	N/A						

DOOR SCHEDULE

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
W430	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W430A	J3	28' - 0"	8' - 11 1/2"	2 61/64"	AL	N/A					PANIC HARDWARE	
W431	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W432	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W432A	J3	28' - 0"	8' - 11 1/2"	2 61/64"	AL	N/A					PANIC HARDWARE	
W433	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W434	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W434A	J3	28' - 0"	8' - 11 1/2"	2 61/64"	AL	N/A					PANIC HARDWARE	
W435	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
W436	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W437	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W438	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W439	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						

LEVEL 4(48'-0")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S4M01	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S4M02	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S4M03	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
W4M01	A2	6' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M01A	L	6' - 0"	8' - 0"	1 3/4"								
W4M04	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M05	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M06	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M07	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M07A	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M08	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M09	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W4M10	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						

LEVEL 4 MEZZ (60'-6")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S501	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S501A	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S502	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2					PANIC HARDWARE	
S503	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
W406	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W407	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W501A	C	3' - 0"	7' - 0"		AL	MATCH WINDOW WALL FRAME					PANIC HARDWARE	
W501B	C	3' - 0"	7' - 0"		AL	MATCH WINDOW WALL FRAME					PANIC HARDWARE	
W501C	C	3' - 0"	7' - 0"		AL	MATCH WINDOW WALL FRAME					PANIC HARDWARE	
W501D	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W501E	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W501O	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W501P	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W502	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W503	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W504	A2	6' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W505	0FFF	6' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W506	A2	6' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W507	A2	6' - 0"	7' - 0"	1 3/4"	HM	PT-2					PANIC HARDWARE	
W508	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W509	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2						
W510	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2					PANIC HARDWARE	
W510A	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2					PANIC HARDWARE	

LEVEL 5 (73'-0")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S5M02	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	PT-2				60 MIN	PANIC HARDWARE	
S5M03	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S714	A	3' - 0"	7' - 0"	1 3/4"								
S715	A	3' - 0"	7' - 0"	1 3/4"								
S716	A	3' - 0"	7' - 0"	1 3/4"								
WSM02	A2	6' - 0"	7' - 0"	1 3/4"	HM	PT-2						
WSM03	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A					PANIC HARDWARE	
WSM04	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
WSM05	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
WSM06	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
WSM07	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
WSM07A	A	2' - 6"	7' - 0"	1 3/4"	HM	N/A						

LEVEL 05 MEZZ (85'-6")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S602	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S602A	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
S603	A	3' - 7 1/4"	7' - 0"	1 3/4"	HM	N/A				60 MIN	PANIC HARDWARE	
W601	C2	6' - 0"	7' - 0"		AL	N/A					PANIC HARDWARE	
W601A	C2	6' - 0"	7' - 0"		AL	N/A					PANIC HARDWARE	
W601B	J	22' - 0"	8' - 0 1/2"	2 61/64"	AL	N/A					PANIC HARDWARE	
W601D	C	3' - 0"	7' - 0"		AL	N/A						
W602	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W603	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W604	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W604A	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W604B	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W605	A	2' - 6"	7' - 0"	1 3/4"	HM	N/A						
W606A	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						
W606B	A	3' - 0"	7' - 0"	1 3/4"	HM	N/A						

LEVEL 06 (98'-0")

No.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THK	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	FIRE RATING	HRDW	COMMENTS
S702	A	3' - 0"	7' - 0"	1 3/4"	HM	PT-2					PANIC HARDWARE	

ROOF (116'0")

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

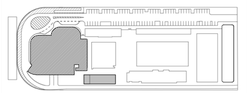
FACADE CONSULTANT:
SCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
DOOR SCHEDULE

PROJECT NUMBER: 010326.000
DATE: 00-00-00
SCALE: 1/4" = 1'-0"

SHEET
A1-801

CAM 23-0723
Exhibit 1M
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FINISH SCHEDULE									
NO.	NAME	WALLS N	WALLS S	WALLS E	WALLS W	BASE	FLOOR	CEILING	REMARKS
LEVEL 1 (0'-0")									
S101	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S102	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S103	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W101	LOBBY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W103	GIFT SHOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W104	CAFE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W105	KITCHEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W106	MENS	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W106A	JAN.	PT-2	PT-2	PT-2	PT-2	CT-3	CT-4	PT-2	
W107	WOMENS	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W108	STORAGE	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W109	CANTEEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W110	CANTEEN SEATING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W111	POOL DECK.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W112	POOL								
W113	LOADING						CONC-1		
W113A	STG	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W114	FIRE PUMP ROOM	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W115	CORR	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W116	MECH	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W117	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W118	IT	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W119	POOL EQUIP.	PT-2	PT-2	PT-2	PT-2	B-2	CT-4	PT-2	EXPOSED CEILING
W120	VEST.	PT-2	PT-2	PT-2	PT-2	B-3	CONC-1	PT-2	EXPOSED CEILING
W121	OFFICE	PT-2	PT-2	PT-2	PT-2	B-2	CPT-1	PT-2	
W122	POOL EQUIP.	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W123	VEST.	PT-2	PT-2	PT-2	PT-2	B-3	CONC-1	PT-2	EXPOSED CEILING
W123A	JAN.	PT-2	PT-2	PT-2	PT-2	CT-3	CT-4	PT-2	
W124	WOMENS LOCKER	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W125	MENS LOCKER	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W126	FIRE COMMAND CENTER	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W127	LOBBY	PT-2	PT-2	PT-2	PT-2	B-3	CONC-1	N/A	EXPOSED CEILING
W127A	TLT	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W127B	TLT	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W128	DRYLAND TRAINING	PT-2	PT-2	PT-2	PT-2	B-3		PT-2	EXPOSED CEILING
W129	STORAGE	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
LEVEL 2 (20'-0")									
S201	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S202	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S203	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W132	BLEACHER STAIR								
W201	CIRCULATION	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W203	PARKING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED CEILING
W204	STORAGE	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W205	EXT. CORR.	N/A	N/A	N/A	N/A	N/A	PAV-1	N/A	
LEVEL 3 (34'-0")									
S301	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S302	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S303	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W301	CIRCULATION	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W303	PARKING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED CEILING
W304	STG	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W305	STG	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W306	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
LEVEL 4(48'-0")									
S401	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S402	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S403	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W402	PRE-FUNCTION								EXPOSED CEILING
W402A	WOMEN	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W402B	MEN	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W403	MUSEUM TENANT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W404	MUSEUM TENANT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W410	RECEPTION	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W412	OFFICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W413	CL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W414	OFFICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W415	CL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W416	OFFICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W417	OFFICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W418	BREAKRM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W419	CONFERENCE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W420	JANITOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W421	TLT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W422	TLT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W423	STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W424	COLLECTIONS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W425	RECEIVING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W426	IT	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W427	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W428	CORR.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED CEILING
W429	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W430	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W431	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W432	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W433	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W434	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W435	VIP ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W438	WOMENS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W439	MENS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W441	STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W442	JANITOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W443	CORR.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED CEILING
LEVEL 4 MEZZ (60'-6")									
S4M01	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
S4M02	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
S4M03	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
W4M01	MECH.	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W4M02	MUSEUM TENANT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W4M04	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W4M05	IT	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
W4M06	LIBRARY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W4M07	VEST.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED CEILING
W4M08	OPEN OFFICES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W4M10	TLT								
W4M11	TLT								
LEVEL 5 (73'-0")									

FINISH SCHEDULE									
NO.	NAME	WALLS N	WALLS S	WALLS E	WALLS W	BASE	FLOOR	CEILING	REMARKS
S501	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S502	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S503	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W501	EVENT SPACE	PT-2	PT-2	PT-2	PT-2	B-3	CPT-1	N/A	EXPOSED CEILING
W502	MEN	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W503	WOMEN	CT-1	CT-1	CT-1	CT-1	CT-3	CT-4	PT-2	
W504	STG	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
W505	CORR	PT-2	PT-2	PT-2	PT-2	B-2	PL-1	PT-2	
W506	STG	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
W507	KITCHEN	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	N/A	EXPOSED CEILING
W508	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W509	IT	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	
W510	VEST.	PT-2	PT-2	PT-2	PT-2	B-3	CONC-1	PT-2	EXPOSED CEILING
LEVEL 05 MEZZ (85'-6")									
S5M01	STAIR W-A	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S5M03	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S502M	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W5M01	CORR	PT-2	PT-2	PT-2	PT-2	B-2	PL-1	PT-2	
W5M01C	JANITOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W5M02	MECH/ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W5M03	OFFICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W5M04	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W5M05	IT	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W5M06	WOMEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W5M07	MEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LEVEL 06 (98'-0")									
S602	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
S603	STAIR W-C	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W601	RESTAURANT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W602	CORR	PT-2	PT-2	PT-2	PT-2	B-2	PL-1	PT-2	
W603	PANTRY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W604	KITCHEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W604A	ELEC	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W604B	IT	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W605	PRIVATE DINING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W606	VEST.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	EXPOSED CEILING
W606A	WOMEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W606B	MEN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
W614	OUTDOOR SEATING						PAV-1		
ROOF (116'0")									
S702	STAIR W-B	PT-2	PT-2	PT-2	PT-2	B-2	CONC-1	PT-2	EXPOSED CEILING
W147	STAIR								

NOTE: SEE A1-902 MATERIALS LIST FOR ABBREVIATIONS

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

FACADE CONSULTANT:
SCICOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX, 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FINISH SCHEDULE

PROJECT NUMBER: 010326.000
DATE: 00-00-00
SCALE:

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Fort Lauderdale, FL
Project No. 010326
MATERIALS LIST

Division 03 - Concrete

Section Title	Code	Description	Location	Manufacturer	Product Code	Style/Color/Finish	Notes
Pavers	PV-1	Roof Pavers	All Terraces - See Plans	TBD	**TBD**	TBD	

Division 05 - Metals

Section Title	Code	Description	Location	Manufacturer	Product Code	Style/Color/Finish	Notes
Stairs	STR W-A, W-B, and W-C	Stair: Metal pan concrete fill welded w/ carrier angles	Fire Stairs	By subcont.		Finish: sealed concrete	Engineering by Contractor
Railings	RAIL-1	Guardrail: 1-1/2" Dia Stl. Pipe with support posts and brackets. 42" guardrail height	Slab edges and other various locations - See Plans	Custom	Painted	Color: PNT-6	Engineering by Contractor
	RAIL-2	Guardrail & Handrail: 1-1/2" Dia Stl. Pipe with support posts and brackets. Handrail heights: 36", 42" at guardrail conditions	STR E-A and STR E-B	Custom	Painted	Color: PNT-6	Engineering by Contractor
	RAIL-3	Handrail: 1-1/2" Dia. Stl. pipe with support brackets. Handrail heights: 36"	All Stairs and Ramps U.O.N.	CRL Hardware		Brushed S.S.	Engineering by Contractor
	RAIL-5	Glass Guardrail with Handrail - Handrail: 1-1/2" Dia. Stainless Steel; Glass guardrail w/ base shoe w/ weld blocks and top cap railing. Handrail height: 36"	Not Used	CRL Hardware	B5S Series w/ Taper Loc Dry Glaze Sys., Standard Sq. Base Shoe, Pismo Series bracket: HR15GBS, BSWB12, GLC10BS, GRLC10ECBS, Top cap: GRS low profile w/ end caps	Base shoe: Alum., pre-drilled & weld blocks as req. Bracket and cap: Brushed S.S. with dome end caps	Engineering by Contractor
	RAIL-6	Glass guardrail, base shoe and top cap railing	Flow Rider	CRL Hardware	B5A Series w/ Taper Loc Dry Glaze Sys., Sq. Base Shoe, GLC10BS, GRLC10ECBS	Base Shoe Cladding & Cap: Brushed S.S., Top cap: Brushed S.S. w/ end caps	Engineering by Contractor
Mechanical Equipment Screen	SCR-1	Equipment Screen	FPL Equipment at Lvll 01 and Cooling Tower at Roof - See Plans	TBD	TBD	TBD	TBD

Division 06 - Wood, Plastics, and Composites

Section Title	Code	Description	Location	Manufacturer	Product Code	Style/Color/Finish	Notes
Plastic Laminate	PL-1	Plastic Laminate	TBD	WilsonArt	Plastic Laminate	TBD	Fire Rating Class B
Solid Surfaces	SSM-1	Solid surface countertop	TBD	Corian	Solid Surface	3/4" thk., Color: TBD	Fire Rating Class A
	SSM-2	Quartz countertop	TBD	Corian	Quartz	3cm thk., Color: TBD	Fire Rating Class A
Wire Grommets	WG	Wire grommets	TBD	Mockett	SG series	Match counter	See millwork details
Z Clips		Aluminum Z Clips		Eagle	1/4" projection	Aluminum	
		Millwork Door Pulls	All millwork, unless otherwise noted	Mockett	Square Pull: DP105B4	Satin Nickel	See millwork details
		Drawer Slides	All millwork, unless otherwise noted	Blum	Standard Series	Standard Finish	See millwork details
		Frameless concealed European Hinge	All millwork, unless otherwise noted	Blum		Standard Finish	See millwork details
		Door catch: Magnetic catch	All millwork, unless otherwise noted			Standard Finish	
		Silencers	All millwork, unless otherwise noted	Bumpon Quiet Clear / 3M		Standard Finish	
		Locks for doors & drawers (millwork)	All millwork, unless otherwise noted	C.R. Laurence	LK56	Satin Nickel Plated	See millwork details

Division 07 - Thermal and Moisture Protection

Section Title	Code	Description	Location	Manufacturer	Product Code	Style/Color/Finish	Notes
Coverbaord	CB-1	Coverboard for roofing	All roofs	TBD	TBD	TBD	
Roofing membrane	RF-1	Roofing Membrane	All roofs	TBD	TBD	TBD	Hurricane compliant, Warranty 20 year

Division 08 - Openings

Section Title	Code	Description	Location	Manufacturer	Product Code	Style/Color/Finish	Notes
Access doors & frames	AD-1	Access doors for GWB walls	Provide per Architectural and MEPFP Plans and per Code	Karp	KSTDW	12" X 12", 24" X 24" 24" X 48", Paint to match adjacent ceiling	
	AD-2	Access doors for GWB ceilings	Provide per Architectural and MEPFP Plans and per Code	Karp	KSTDW	12"X12", 18"X18", 24" X 24", Paint to match adjacent ceiling	
Glazing	GL-1	Laminated Insulating glazing unit	Exterior - Storefront	Viracon, Vitro or EQ		TBD	
	GL-2	Laminated Glazing unit	Interior - Storefront	Viracon, Vitro or EQ		TBD	
	GL-3	Laminated glass	Interior - Glass Guardrails	Viracon, Vitro or EQ		9/16" Thk., Low Iron	
	GL-4	Laminated glass	Interior - Door lites	TBD	TBD	TBD	
Storefront System	SF1	Curtain Wall - Exterior	See Plans	TBD	TBD	TBD; max panel dimensions 4'x12'	Hurricane Impact Resistant
	SF2	Curtain Wall - Interior	See Plans	TBD	TBD	TBD; max panel dimensions 4'x12'	

Division 09 - Finishes

Section Title	Code	Description	Location	Manufacturer	Product	Style/Color/Finish	Notes
Acoustical Ceiling Tile	ACT-1	Acoustical Ceiling Tile		Armstrong	2x2 Optima Tegular 9/16" Sq Tegular Edge, #3251	Color: White	Fire Rating Class A
Base	B-1	Pool Base	Flow Rider and adjacent areas	TBD	TBD	TBD	
	B-2	Rubber base	See room list	Johnsonite	4" High base	Color: TBD	
	B-3	Painted wood base	See room list	By Subcont.	6" High base	Paint to match adjacent walls U.O.N.	Fire Rating Class B minimum.
Carpet	CPT-1	Carpet	TBD	TBD	TBD	TBD	Fire Rating Class 1
Sealed Floors	CON-1	Sealant for exposed concrete floors	See room list for locations	By subcont.	By subcontractor	By subcontractor	See specs
Walk Off Mat	WOM-1	Integrated Entrance Floor Grills	See Plans				
Resilient Flooring	LVT-1	Resilient Flooring	See Finish Schedule List for locations	TBD	TBD	TBD	Fire Rating Class 1
Pool Flooring	PL-1	Pool Area Flooring	Adjacent to Flow Rider	TBD	TBD	TBD	
Paint	PNT-1/PT-1	Interior Paint	Flow Rider and adjacent areas	Sherwin Williams	TBD	TBD	See finish notes on F-101 and specs
	PNT-2/PT-2	Interior Paint	See Plans	Sherwin Williams	TBD	TBD	See finish notes on F-101 and specs
	PNT-9/PT-9	Exterior Paint	See Specs	Sherwin Williams	TBD	TBD	See Specs
Glass Fiber Reinforced Gypsum	GRG-1	Glass Fiber Reinforced Gypsum	TBD	Formglas or Eq.	GFRG	TBD	Fire Rating Class A
Tiling	CT-1	Ceramic Tile	Restroom Walls	TBD	TBD	TBD	
	CT-2	Ceramic Tile	Restroom Accent Walls	TBD	TBD	TBD	
	CT-3	Ceramic Tile Base	Restroom Wall Base	TBD	TBD	TBD	
	CT-4	Ceramic or Porcelain Tile (TBD)	All restrooms	TBD	TBD	TBD	
Elevator Finishes	PNL-1	Elevator Wall Panels	Both Elevators	TBD	TBD	TBD	
	PNL-2	Elevator Ceiling Panels	Both Elevators	TBD	TBD	TBD	
Wall Corner Trim	CG-1	Tile corner profile	Restroom Walls	Schluter Sys.	TBD	Outside Corner, Brushed SS	
	CG-2	GWB corner profile	See Plans	Schluter Sys.	TBD	TBD	
Soffit Panel System	SFT-1	Exterior Soffit Panel System	See Plans	TBD	TBD	TBD	
Stucco	STCO-1	Exterior Portland Cement Stucco	All exterior masonry walls	Sto	TBD	TBD	
Stair Nosing	SN-1	Metal Stair Nosing	Metal Pan concrete stairs	Wooster	Type 101SP	Material: Alumogrit	
	SN-2	Metal Stair Nosing	Poured concrete stairs	Wooster	Type 101	Material: Alumogrit	
Thresholds/Sills	S1	Vinyl Edge Guard	See finish schedule	Johnsonite	SLT-40-J	Color: TBD	Concrete/Terrazzo to resilient
	S2	Vinyl Edge Guard	See finish schedule	Johnsonite	SLT-63-J	Color: TBD	Concrete/Terrazzo to carpet
	S3	Vinyl Edge Guard	See finish schedule	Johnsonite	EG-63-L	Color: TBD	Resilient to resilient
	S4	Vinyl Adaptor Moulding	See finish schedule	Johnsonite	SLT-63-B	Color: TBD	Resilient to carpet
	S5	Vinyl T Moulding	See finish schedule	Johnsonite	CTA-63-D	Color: TBD	Carpet to carpet
	S6	Vinyl T Moulding	See finish schedule	Johnsonite	CD-63-C	Color: TBD	Concrete/Terrazzo to tile
	S7	Marble	Restrooms	TBD	TBD	TBD	
	S8	Exterior anod. alum. threshold	New exterior doors	Crawford-Tracey ...	V.I.F.	Material/Color: TBD	

Division 10 - Specialties

Section Title	Code	Description	Location	Manufacturer	Product	Style/Color/Finish	Notes
Toilet Partitions	TP-1	Toilet Partitions	Restrooms	Scranton	Hiny Hiders	HDPE, Color: Concrete	Standard Hardware; Fire Rating Class C min.
Fire extinguishers	FEC-1	Fire extinguishers wall mounted with bracket	TBD	TBD	Recessed	TBD	
	FEC-2	Fire extinguishers wall mounted with bracket	TBD	TBD	Surface-mounted	TBD	
Raised Flooring System	RFS-1	Raised floor	TBD	Tate Inc. or EQ	TBD	TBD	

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER/LANDSCAPE:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

CODE CONSULTANT:
SLS CONSULTING, INC.
260 PALMERO AVE.,
CORAL GABLES, FL, 33134
TEL:305.859.0161

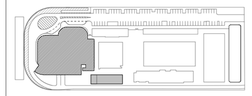
FACADE CONSULTANT:
SOCOTEC CONSULTING, INC.
950 SOUTH PINE ISLAND RD., STE. A150
PLANTATION, FL, 33324
TEL:305.695.0850

AQUATICS CONSULTANT:
COUNSILMAN-HUNSAKER
10733 SUNSET OFFICE DR., STE. 400,
SAINT LOUIS, MO, 63127
TEL:618.975.9025

VERTICAL CONSULTANT:
PERSOH HAHN ASSOCIATES, INC.
11621 SPRING CYPRESS ROAD, STE. D
TOMBALL, TEX. 77377
TEL:713.467.4440

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△ DESCRIPTION DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
MATERIALS LIST

PROJECT NUMBER: 010326.000
DATE: 06/28/22
SCALE:

SHEET
A1-902

CAM 23-0723
Exhibit 1M
Page 77 of 169

8/22/2022 6:54:48 PM • Sheet Number: S0-000
TT Project Number: K20063.00

ISHOF

1 Hall of Fame Drive, Fort Lauderdale, FL 33316

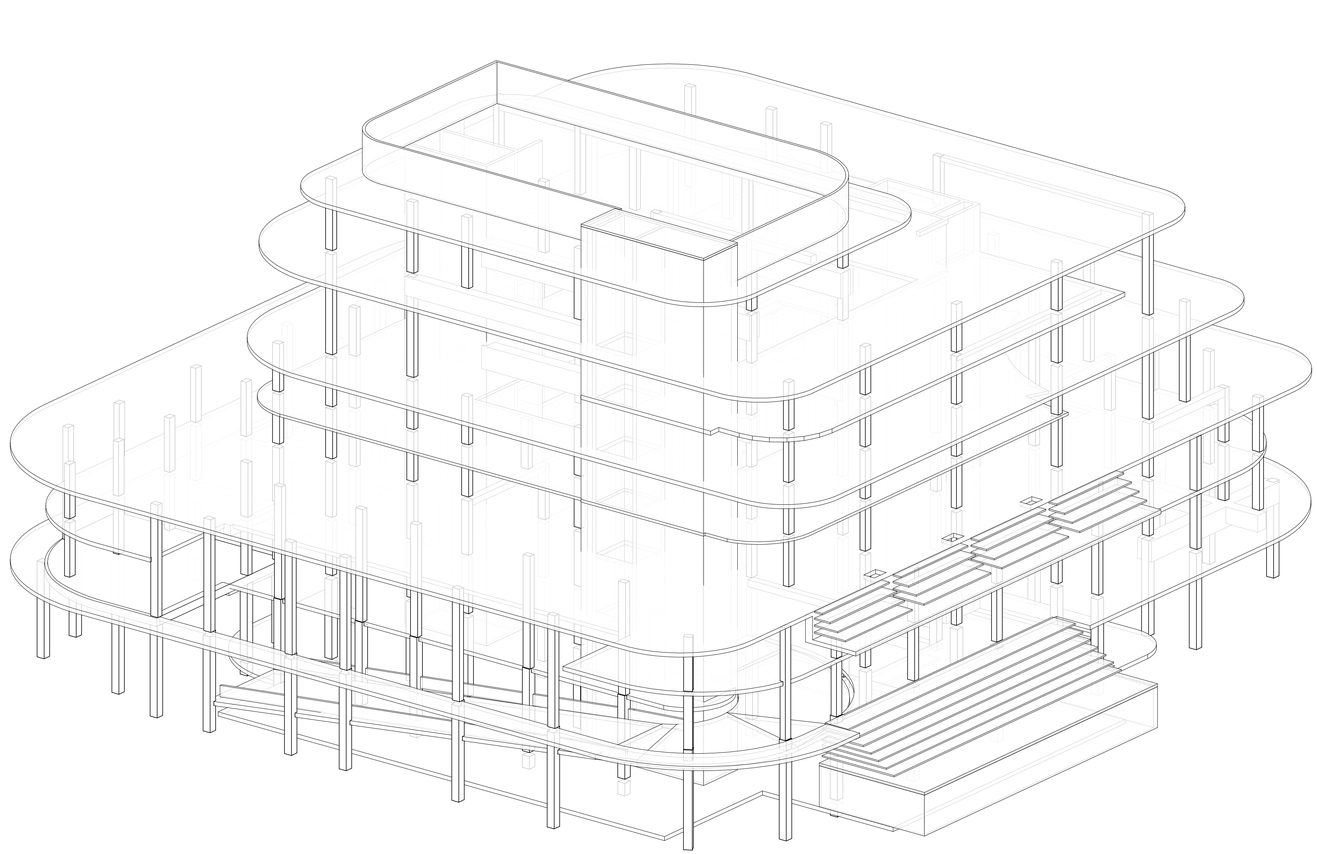
SD/DD/CD + %

APRIL 22, 2022

STRUCTURAL DRAWING LIST

SHEET NO	SHEET NAME
S0 SERIES:	GENERAL
S0-000	COVER SHEET AND DRAWING LIST
S0-001	GENERAL NOTES
S0-002	GENERAL NOTES
S0-003	GENERAL NOTES AND ABBREVIATIONS
S0-004	THREESOLD INSPECTION PLAN
S0-005	THREESOLD INSPECTION PLAN
S0-100	GENERAL LAP SPLICE SCHEDULES I
S0-101	GENERAL LAP SPLICE SCHEDULES II
S0-102	GENERAL SCHEDULES AND LEGENDS
S0-103	GENERAL LEGENDS
S0-200	LOADING DIAGRAMS
S0-201	LOADING DIAGRAM
S0-203	ELEVATIONS
S0-204	ELEVATION
S0-205	ROOF PLAN FOR COMPONENTS & CLADDING
S1 SERIES:	REFERENCE PLANS
S1-001	LEVEL 1 FLOOR FRAMING PLAN
S1-002	LEVEL 2 FLOOR FRAMING PLAN
S1-003	LEVEL 3 FLOOR FRAMING PLAN
S1-004	LEVEL 4 FLOOR FRAMING PLAN
S1-004M	LEVEL 4 MEZZ FLOOR FRAMING PLAN
S1-005	LEVEL 5 FLOOR FRAMING PLAN
S1-005M	LEVEL 5 MEZZ FLOOR FRAMING PLAN
S1-006	LEVEL 6 FLOOR FRAMING PLAN
S1-007	LEVEL ROOF FLOOR FRAMING PLAN
S2 SERIES:	FOUNDATION SCHEDULES, SECTIONS AND DETAILS
S2-200	TYPICAL CAST-IN-PLACE PILE DETAILS
S2-201	TYPICAL CAST-IN-PLACE-PILE DETAILS
S2-400	TYPICAL SLAB ON GRADE DETAILS
S2-401	TYPICAL SLAB ON GRADE DETAILS
S2-700	TYPICAL GRADE BEAM DETAILS
S2-701	TYPICAL GRADE BEAM DETAILS
S2-702	TYPICAL GRADE BEAM DETAILS
S3 SERIES:	LATERAL SYSTEM ELEVATIONS AND DETAILS
S3-003	CONCRETE SHEAR WALL SCHEDULE AND NOTES
S3-100	SHEARWALL PLANS
S3-101	SHEARWALL PLANS
S3-102	SHEARWALL PLANS
S3-103	SHEARWALL PLANS
S3-104	SHEARWALL PLANS
S3-110	SHEARWALL ELEVATIONS
S3-111	SHEARWALL ELEVATIONS
S3-112	SHEARWALL ELEVATIONS
S3-300	TYPICAL CONCRETE SHEAR WALL DETAILS
S3-301	TYPICAL CONCRETE SHEAR WALL DETAILS
S3-302	TYPICAL CONCRETE SHEAR WALL LINK BEAM DETAILS
S4 SERIES:	CONCRETE SUPERSTRUCTURE SCHEDULES, SECTIONS AND DETAILS
S4-001	CONCRETE COLUMN SCHEDULE
S4-100	TYPICAL CONCRETE COLUMN DETAILS I
S4-101	TYPICAL CONCRETE COLUMN DETAILS II
S4-200	TYPICAL CONCRETE BEAM DETAILS
S4-201	TYPICAL CONCRETE BEAM DETAILS
S4-202	TYPICAL CONCRETE BEAM DETAILS
S4-210	CONCRETE BEAM SCHEDULE
S4-300	TYPICAL CONCRETE SLAB DETAILS
S4-301	TYPICAL CONCRETE SLAB DETAILS
S4-302	TYPICAL CONCRETE SLAB DETAILS
S4-304	TYPICAL CONCRETE TWO-WAY SLAB DETAILS
S4-400	TYPICAL POST-TENSIONED BEAM DETAILS I
S4-401	TYPICAL POST-TENSIONED BEAM DETAILS II

SHEET NO	SHEET NAME
S4-410	POST-TENSIONED BEAM SCHEDULE
S4-500	TYPICAL POST-TENSIONED SLAB DETAILS I
S4-501	TYPICAL POST-TENSIONED SLAB DETAILS II
S4-502	TYPICAL POST-TENSIONED TWO-WAY SLAB DETAILS I
S4-503	TYPICAL POST-TENSIONED TWO-WAY SLAB DETAILS II
GRAND TOTAL: 61	



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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

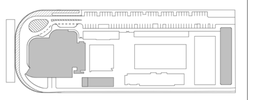
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
COVER SHEET AND DRAWING LIST

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S0-000

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8/22/2022 6:54:48 PM • Sheet Number: S0-001
TT Project Number: K20063.00

GR GENERAL REQUIREMENTS

GR-1 AS USED IN THESE GENERAL NOTES:
"DRAWINGS" MEANS THE LATEST STRUCTURAL DESIGN DRAWINGS, UON.
"SPECIFICATIONS" MEANS THE LATEST PROJECT SPECIFICATIONS, UON.
"CONTRACT DOCUMENTS" IS DEFINED AS THE DESIGN DRAWINGS AND THE SPECIFICATIONS
"SER" IS DEFINED AS THE STRUCTURAL ENGINEER OF RECORD FOR THE STRUCTURE IN ITS FINAL CONDITION.
"DESIGN PROFESSIONALS" IS DEFINED AS THE OWNER'S ARCHITECT AND SER.
"MEP" INCLUDES, BUT IS NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION.
"CONTRACTOR" IS DEFINED TO INCLUDE ANY OF THE FOLLOWING: GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS, CONSTRUCTION MANAGER AND THEIR SUBCONTRACTORS, STRUCTURAL STEEL FABRICATOR OR STRUCTURAL STEEL ERECTOR.
"BASE BUILDING STRUCTURE" IS DEFINED AS THE STRUCTURAL FRAME DESIGNED BY THORNTON TOMASETTI.
"STRUCTURE IN ITS FINAL CONDITION" MEANS ALL STRUCTURAL ELEMENTS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS ARE INSTALLED AND COMPLETELY CONNECTED AND INSPECTED WITH NO OUTSTANDING NON-COMPLIANCE ISSUES.
"DELEGATED DESIGN" MEANS A SCOPE OF WORK THAT MEETS PERFORMANCE CRITERIA ESTABLISHED IN THE CONTRACT DOCUMENTS AND IS TO BE COMPLETED BY THE CONTRACTOR'S LICENSED ENGINEER.
"SERVICE LEVEL" LOADS ARE DEFINED AS NOMINAL OR UNFACTORED LOADS TO BE COMBINED USING ALLOWABLE STRESS LOAD COMBINATIONS
"STRENGTH LEVEL" LOADS ARE DEFINED AS FACTORED LOADS TO BE COMBINED USING STRENGTH DESIGN LOAD COMBINATIONS

GR-2 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, MEP CONTRACT DOCUMENTS, AS WELL AS ANY OTHER APPLICABLE TRADES.

GR-3 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINAL CONDITION.

GR-4 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS, FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY SUPPORTS AND BRACES. CONTRACTOR SHALL RETAIN A **PROFESSIONAL** ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.

GR-5 LATERAL LOAD RESISTANCE AND STABILITY OF THE STRUCTURE IN ITS FINAL CONDITION IS PROVIDED BY **SHEAR WALLS** AND LATERAL STABILITY OF OTHER ELEMENTS IS PROVIDED THROUGH **FLOOR SLABS.**

GR-6 THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.

GR-7 THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.

GR-8 IN CASES OF CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND OTHER DISCIPLINES OR EXISTING CONDITIONS, CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND PROCEEDING WITH WORK.

GR-9 APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE.

GR-10 ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.

GR-11 ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS, IF NOT INDICATED ON DRAWINGS.

GR-12 CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, UON.

GR-13 CENTERLINES OF GRADE BEAMS AND WALLS COINCIDE WITH CENTERLINES OF FOUNDATIONS, UON.

GR-14 CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, UON.

GR-15 THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES FROM DAMAGE.

GR-16 THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOAD IS APPLIED.

GR-17 THE CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATIONS WITH THE AS-BUILT TOP OF SUPPORT ELEVATIONS.

GR-18 THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. ADDITIONAL OPENINGS, BLOCKOUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INDICATED ON THE DRAWINGS. OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE SER.

GR-19 ELEVATIONS INDICATED ON STRUCTURAL DRAWINGS ARE BASED ON A PROJECT DATUM INDICATED ON THE ARCHITECTURAL DRAWINGS.

GR-20 SEE ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:

CIVIL:
PROJECT DATUM
SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS
SITE PREPARATION
BACKFILLING MATERIALS AND REQUIREMENTS
PAVING AND SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE
NEW AND EXISTING SITE UTILITIES

ARCHITECTURAL:
PLAN DIMENSIONS AND PROJECT DATUM
SLAB EDGE DIMENSIONS
FINISH ELEVATIONS
WATERPROOFING AND DAMP-PROOFING DETAILS
RAMP GEOMETRY, PITS, SLAB SLOPES AND DEPRESSIONS
EMBEDMENTS, INSERTS, BLOCKOUTS, ETC.
EXACT OPENING SIZES FOR PIPES, DUCTS, ETC.
CONCRETE FINISHES AND TOPPING SLABS
CONCRETE CURBS AND HOUSEKEEPING PADS
INTERIOR NON-STRUCTURAL MASONRY PARTITIONS
FIRE RATINGS
METAL PAN STAIRS AND SUPPORTS
OPERABLE PARTITIONS

MEP:
PIPE AND DUCT SIZES FOR OPENING AND SLEEVE COORDINATION
FLOOR DRAINS
UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS
EQUIPMENT CURBS
CONDUITS AND EMBEDMENTS IN WALLS AND SLABS

VERTICAL TRANSPORTATION:
INSERTS, HANGERS, TRENCHES, PITS, CONDUITS IN WALLS AND SLABS
EQUIPMENT SUPPORT, ELEVATOR DIVIDER BEAMS, EMBEDMENTS, AND ANCHOR RODS

CD CODES AND DESIGN CRITERIA

CD-1 PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE PROJECT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS, UON:

FLORIDA BUILDING CODE, 2020 EDITION

STRUCTURAL CONCRETE:
"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
THE AMERICAN CONCRETE INSTITUTE (ACI 318-14)

MASONRY:
"BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
THE AMERICAN CONCRETE INSTITUTE (TMS 402-16; ACI 530-16; ASCE 5-16)

"SPECIFICATION FOR MASONRY STRUCTURES"
THE AMERICAN CONCRETE INSTITUTE (TMS 602-16; ACI 53.1-16; ASCE 6-16)

STRUCTURAL STEEL:
"SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", (AISC 360-16) CONFORMING TO THE PROVISIONS OF LOAD RESISTANCE FACTOR DESIGN, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC-LRFD)

CD-2 SEE DESIGN LOAD DIAGRAMS ON SHEET S0-200A TO S-0200B FOR LOCATIONS AND EXTENT OF LIVE LOAD.

CD-3 SEE DESIGN LOAD DIAGRAMS ON SHEET S0-200A TO S-0200B FOR LOCATIONS AND EXTENT OF SUPERIMPOSED DEAD LOADS.

CD-4 RISK CATEGORY:III

CD-6 WIND LOAD DESIGN DATA (STRENGTH LEVEL):

MAIN WIND FORCE RESISTING SYSTEM	
BASIC WIND SPEED, V	181 MPH
EXPOSURE	D
INTERNAL PRESSURE COEFFICIENT	± 0.18

CD-7 SEE DESIGN CLADDING LOAD DIAGRAMS ON SHEETS

CD-8 FLOOD LOADS: DESIGNED FOR EQUALIZATION OF HYDROSTATIC FLOOD FORCES IN ACCORDANCE WITH SECTION 2.7.2.2 OF ASCE 24.

ACCORDING TO THE FEMA FLOOD MAP, THIS BUILDING IS LOCATED IN ZONE "AE" WITH BASE FLOOD ELEVATION +5 FT NAVD. DESIGN FLOOD ELEVATION USED FOR DESIGN= +6 FT

CD-9 IN CASES WHERE THE CONTRACTOR DETERMINES THAT SUSPENDED OR FLOOR MOUNTED EQUIPMENT LOADS EXIST WHICH EXCEED DESIGN LOADS INDICATED ON CONTRACT DOCUMENTS, CONTRACTOR SHALL SUBMIT LOAD DATA TO DESIGN PROFESSIONALS FOR REVIEW PRIOR TO PROCEEDING WITH WORK.

CD-10 DISTRIBUTE THE MAXIMUM LOAD HUNG FROM ANY STRUCTURAL MEMBER FOR DUCTWORK, PIPING ETC OVER THE MEMBER'S TRIBUTARY AREA IN A WAY THAT THE MEP DESIGN SUPERIMPOSED DEAD LOADS LISTED IN CONTRACT DOCUMENTS ARE NOT EXCEEDED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE ADDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THE ALLOWABLE LOAD DISTRIBUTION.

CD-11 ESCALATOR SUPPORTS AND PITS ARE BASED ON ESCALATOR TYPES INDICATED ON ARCHITECTURAL CONTRACT DOCUMENTS. CONTRACTOR SHALL SUBMIT FOR REVIEW ANY PLANNED CHANGE TO ESCALATORS TO DESIGN PROFESSIONALS PRIOR TO SUBMITTING CORRESPONDING STRUCTURAL SHOP DRAWINGS FOR ACTION.

CD-12 ELEVATOR GUIDERAIL SUPPORTS, MACHINE ROOMS, PITS, AND PENTHOUSES ARE BASED ON ELEVATOR TYPES INDICATED ON ARCHITECTURAL CONTRACT DOCUMENTS. CONTRACTOR SHALL SUBMIT FOR REVIEW ANY PLANNED CHANGE TO ELEVATORS TO DESIGN PROFESSIONALS PRIOR TO SUBMITTING CORRESPONDING STRUCTURAL SHOP DRAWINGS FOR ACTION.

CD-13 STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATION ISOLATORS.

CD-14 SERVICEABILITY

LIVE LOAD DEFLECTION IS LESS THAN **L/360**

LONG-TERM TOTAL DEFLECTION IS LESS THAN **L/240**

LATERAL DRIFT DUE TO **(25 YR RETURN PERIOD)** LOADS IS LESS THAN OR EQUAL TO **H/400**

CD-15 CONNECTIONS OF SYSTEMS DESIGNED BY CONTRACTOR'S ENGINEER SUCH AS, BUT NOT LIMITED TO, CLADDING, STAIRS, ELEVATORS, ESCALATORS, PRECAST, AND MEP LOADS ARE ASSUMED TO IMPOSE VERTICAL AND/OR HORIZONTAL LOADS ON THE BASE BUILDING STRUCTURAL MEMBERS WITHOUT GENERATING TORSION IN THE SUPPORTING STRUCTURAL MEMBERS. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL SUPPLEMENTARY BRACING MEMBERS AS REQUIRED TO PREVENT TORSION ON THE BASE BUILDING STRUCTURE.

CD-16 FOR FIRE RATING AND FIREPROOFING ASSEMBLY EVALUATIONS, CONSIDER THE FOLLOWING ASSEMBLIES RESTRAINED: COMPOSITE WIDE-FLANGE STEEL FRAMING, INTERIOR BAYS OF CONTINUOUS CAST-IN-PLACE CONCRETE CONSTRUCTION. CONSIDER ALL OTHER ASSEMBLIES UNRESTRAINED.

CD-17 THERE HAVE BEEN NO LOAD RESTRICTION FACTORS APPLIED TO THE STRUCTURAL DESIGN FOR THE PURPOSES OF SELECTING FIREPROOFING ASSEMBLIES.

DE DEMOLITION

DE-1 THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION UNTIL THE WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE SHORING IN REQUIRED LOCATIONS WHERE EXISTING CONSTRUCTION TO REMAIN WILL BE AFFECTED BY DEMOLITION. CONTRACTOR SHALL RETAIN A **PROFESSIONAL** ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN SHORING.

DE-2 THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURAL ELEMENTS WHICH ARE TO REMAIN AND THAT HAVE BEEN DAMAGED DURING THE DEMOLITION PROCESS TO THE COMPLETE SATISFACTION OF THE OWNER. THE REPAIRS SHALL BE AT NO EXPENSE TO THE OWNER. ALL REPAIR WORK SHALL BE DESIGNED BY A **PROFESSIONAL** ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND SUBMITTED TO THE SER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING REPAIR WORK.

DE-3 ALL EXISTING FRAMING IS INDICATED FOR REFERENCE ONLY AND IS TO BE FIELD VERIFIED BY THE CONTRACTOR. VERIFY THE EXACT EXTENT OF DEMOLITION AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH THE EXISTING CONSTRUCTION. IMMEDIATELY NOTIFY THE DESIGN PROFESSIONALS OF ANY INCONSISTENCIES.

DE-4 THE CONTRACTOR SHALL USE THE STRUCTURAL CONTRACT DOCUMENTS IN CONJUNCTION WITH THE ARCHITECTURAL AND MEP DEMOLITION CONTRACT DOCUMENTS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONALS.

DE-5 THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR DEMOLITION AND REMOVAL OPERATIONS. PERFORM DEMOLITION AND REMOVAL OPERATIONS IN A CAREFUL AND ORDERLY MANNER TO PREVENT HAZARDS TO PERSONS, DAMAGE TO PROPERTY, AND THE SPREADING OF DUST AND DEBRIS.

DE-6 DO NOT PERMIT PORTIONS OF THE STRUCTURE TO FALL NOR DEBRIS TO DROP EXCEPT BY METHODS WHICH WILL INSURE INTEGRITY OF THE STRUCTURE.

DE-7 PRIOR TO THE START OF WORK, VERIFY THAT THE SCOPE OF DEMOLITION INDICATED ON THE CONTRACT DOCUMENTS SHALL NOT DAMAGE, CUT OR DISRUPT SERVICE OF ANY MECHANICAL SYSTEM, ELECTRICAL SYSTEM OR UTILITY EMBEDDED IN THE EXISTING STRUCTURE.

DE-8 DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN INDICATED ON CONTRACT DOCUMENTS. DO NOT DAMAGE, MAR, CUT OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE REUSED.

DE-9 THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF REMOVING DEMOLISHED MATERIALS FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS.

DE-10 WHERE NEW OPENINGS IN EXISTING CONCRETE SLABS OR WALLS ARE TO BE CREATED, THE DEMOLITION CONTRACTOR SHALL CORE HOLES AT THE OUTSIDE CORNERS OF THE NEW OPENING PRIOR TO DEMOLITION. SAW-CUT AND DEMOLISH SLAB OR WALL ONLY AFTER THE INSTALLATION OF ALL REQUIRED NEW STRUCTURAL FRAMING AND/OR REINFORCEMENT IN PLAN OR SECTION, UON. SAW CUTTING SHALL BE STRAIGHT AND SHALL NOT EXTEND INTO EXISTING SLAB OR WALL TO REMAIN NOR BEYOND THE HOLES CORED AT THE CORNERS OF THE NEW OPENING.

DI DELEGATED DESIGN ITEMS

DI-1 THE CONTRACTOR SHALL EMPLOY OR RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS LOCATED TO DESIGN AND DETAIL DELEGATED DESIGN ITEMS TO MEET THE PERFORMANCE AND DESIGN CRITERIA ESTABLISHED AS PART OF THE BASE BUILDING STRUCTURE INDICATED IN THE CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO:

SU SUBMITTALS

SU-1 THE CONTRACTOR SHALL PROVIDE THE REQUIRED SUBMITTALS FOR STRUCTURAL REVIEW AS OUTLINED IN THE SPECIFICATIONS. THIS INCLUDES BOTH ITEMS FULLY DESIGNED ON THE CONTRACT DOCUMENTS AND ITEMS LISTED AS DELEGATED DESIGN. ITEMS INCLUDE BUT ARE NOT LIMITED TO:

031000 CONCRETE FORMWORK
032000 CONCRETE REINFORCEMENT AND EMBEDDED ASSEMBLIES
033000 CAST-IN-PLACE CONCRETE
033800 POST-TENSIONED CONCRETE
042200 CONCRETE MASONRY UNITS
051200 STRUCTURAL STEEL
316100 FOOTINGS
316316 AUGERCAST PILES

SU-2 SUBMIT LOADS IMPOSED ONTO BASE BUILDING STRUCTURE BY THE FOLLOWING CONTRACTOR DESIGNED SYSTEMS:

ARCHITECTURAL PRECAST CONCRETE AND CONNECTIONS
EXTERIOR CLADDING SYSTEMS
ARCHITECTURAL ORNAMENTATION (FLAGPOLES, BANNERS, MASTS, ETC.)
ELEVATOR REACTIONS
GUARDRAILS
WINDOW WASHING TIEBACK, DAVIT, OR BMU SYSTEMS

WHERE CONTRACTOR LOADS IMPOSED DO NOT EXCEED AND/OR CONNECTION CONDITIONS DO NOT DIFFER FROM WHAT IS INDICATED IN THE STRUCTURAL DRAWINGS, SUBMIT FOR RECORD A LETTER SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED STATING THE FOLLOWING:

"THE CONTRACTOR DESIGNED SYSTEM HAS BEEN DESIGNED TO IMPOSE LOADS ON THE BASE BUILDING STRUCTURE THAT ARE WITHIN THE LOAD LIMITS AND AT THE LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS."

WHERE CONTRACTOR LOADS IMPOSED FOR THE ITEMS LISTED ABOVE EXCEED AND/OR CONNECTION CONDITIONS DIFFER FROM WHAT IS SHOWN IN THE STRUCTURAL DRAWINGS, SUBMIT FOR APPROVAL TO SER LOADS IMPOSED ON THE PRIMARY STRUCTURAL FRAME DUE TO THE DEAD, LIVE, AND WIND/SEISMIC LOADS INDICATED ON THE CONTRACT DOCUMENTS.

SUBMITTAL SHALL LIST THE DESIGN LOADS USED AND BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTAL SHALL INCLUDE LOCATION, MAGNITUDE AND DIRECTION OF UNFACTORED IMPOSED LOADS, GRAPHICALLY REPRESENTED IN THEIR APPROPRIATE LOCATIONS ON A COPY OF THE CONTRACT DOCUMENT STRUCTURAL FRAMING PLANS OR ELEVATIONS AS APPROPRIATE. DETAIL REFERENCES IN THE CONNECTIONS APPLICABLE AT EACH LOCATION SHALL BE NOTED ON THE SUBMITTAL DRAWINGS.

FOR EXTERIOR WALL ASSEMBLIES, THE LOADS IMPOSED SUBMITTAL SHALL BE COMPREHENSIVE INDICATING THE LOADS IMPOSED ON THE BASE BUILDING STRUCTURE AND SHALL INCLUDE THE REACTIONS BASED ON THE ACTUAL LOADS OF THE ENTIRE ASSEMBLY, INCLUDING BUT NOT LIMITED TO GLAZING, CLADDING, METAL STUD BACKUP, AND MULLIONS.

FOR MEP SYSTEMS, THE LOADS IMPOSED SUBMITTAL SHALL BE COMPREHENSIVE INDICATING THE LOADS IMPOSED ON THE BASE BUILDING STRUCTURE AND SHALL INCLUDE THE REACTIONS BASED ON THE ACTUAL LOADS OF THE ENTIRE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION

SYSTEM, INCLUDING BUT NOT LIMITED TO PIPING, DUCTS, ELECTRICAL RACEWAYS, AND EQUIPMENT WEIGHTS.

A SUBSTITUTION REQUEST MAY BE REQUIRED WHERE CONTRACTOR LOADS IMPOSED EXCEED AND/OR CONNECTION CONDITIONS DIFFER FROM THE BASIS OF DESIGN.

SU-3 THE SER'S REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. NO WORK SHALL BE STARTED WITHOUT SUCH REVIEW.

FN FOUNDATIONS

FN-1 THE FOUNDATION DESIGN IS BASED ON THE PRELIMANARY GEOTECHNICAL REPORT BY .

FN-2 FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE FOLLOWING DESIGN VALUES FROM THE GEOTECHNICAL REPORT (SERVICE LEVEL):

SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION. DESIGN VALUES SHALL BE FIELD VERIFIED BY QUALIFIED GEOTECHNICAL ENGINEER RETAINED BY THE OWNER.

FN-3 THE CONTRACTOR SHALL VERIFY FOUNDATION INSTALLATION AND CONSTRUCTION IS IN CONFORMANCE WITH THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT.

FN-4 CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION. WHERE NECESSARY, SHEET AND SHORE THE EXCAVATION WITH ALL REQUIRED TIEBACKS AND BRACING AS DETERMINED BY CONTRACTOR'S ENGINEER.

FN-5 PROVIDE BRACING FOR ALL BASEMENT FOUNDATION WALLS PRIOR TO BACKFILLING. THIS BRACING SHALL REMAIN IN PLACE UNTIL ALL SLABS AND BEAMS FRAMING INTO WALL HAVE BEEN PLACED AND HAVE ATTAINED 100% OF THEIR DESIGN STRENGTH.

FN-6 DO NOT BACKFILL AGAINST CANTILEVER RETAINING WALLS UNTIL THE CONCRETE HAS ATTAINED 100% OF ITS DESIGN STRENGTH.

CM CONCRETE MATERIALS

CM-1 CONCRETE STRENGTH SHALL MEET THE FOLLOWING 28-DAY COMPRESSIVE STRENGTHS (f' c), UON:

SITE RETAINING WALLS	**5,000** PSI
CAISSONS AND PILES	**TBD** PSI
FOOTINGS, PILE CAPS AND PIERS	**6,000** PSI
GRADE BEAMS	**6,000** PSI
NON-SHRINK GROUT	**8,000** PSI
SLAB ON GRADE OR HYDROSTATIC SLAB	**6,000** PSI
FORMED CONCRETE SLABS AND BEAMS	**6,000** PSI
CONCRETE HOUSEKEEPING PADS, AND FILL SLABS	**5,000** PSI
COLUMNS	**6,000** PSI
CONCRETE SHEAR WALLS	**6,000** PSI

CM-2 PROVIDE NORMALWEIGHT CONCRETE WITH CURED DENSITY OF 145 +/- 5 PCF, AND AGGREGATE CONFORMING TO ASTM C33, UON. WHERE INDICATED, PROVIDE LIGHTWEIGHT CONCRETE WITH CURED DENSITY OF 112+/-3 PCF AND AGGREGATE CONFORMING TO ASTM C330.

CM-3 THE USE OF CALCIUM CHLORIDE AND OTHER CHLORIDE CONTAINING AGENTS IS PROHIBITED. THE USE OF RECYCLED CONCRETE IS PROHIBITED. PLACEMENT WITHIN AND CONTACT BETWEEN ALUMINUM ITEMS, INCLUDING ALUMINUM CONDUIT, AND CONCRETE IS PROHIBITED.

CM-4 ALL CAST-IN-PLACE CONCRETE WILL EXPERIENCE DIFFERING VARIATIONS OF CRACKING. ANY ELEMENT EXPOSED TO DIRECT WEATHER AND/OR TEMPERATURE VARIATIONS DURING CONSTRUCTION OR IN THE FINAL CONDITION IS TO BE TREATED AND REGULARLY MAINTAINED TO PREVENT PROPAGATION OF CRACKS AND WATER PENETRATION. THE CONTRACTOR SHALL DEVELOP A REGULAR MAINTENANCE PROGRAM AND SUBMIT IT TO THE OWNER.

RE CONCRETE REINFORCEMENT

RE-1 ALL CONCRETE SHALL INCLUDE REINFORCEMENT. IF REINFORCEMENT IS NOT SPECIFICALLY INDICATED ON THE DRAWINGS VERIFY WITH THE SER.

RE-2 REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES UON:

DEFORMED BARS: ASTM A615
GRADE 60 #3 TO #8
GRADE 75 #9 TO #11
WELDABLE DEFORMED BARS: ASTM A706
EPOXY COATED DEFORMED BARS: ASTM A615 / A775
WELDED WIRE REINFORCEMENT ASTM A1064
EPOXY COATED WELDED WIRE REINFORCEMENT ASTM A1064 / A884

RE-3 DETAIL REINFORCEMENT BASED ON THE PROJECT REQUIREMENTS, ACI-318 AND ACI-315, UON.

RE-4 WHERE A 90-DEG, 135 –DEG OR 180-DEG HOOK IS GRAPHICALLY INDICATED, PROVIDE CORRESPONDING ACI STANDARD HOOKS UON.

RE-5 DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCEMENT UON.

RE-6 REINFORCEMENT SHALL HAVE CONCRETE PROTECTION (CLEAR COVER) PER ACI 318 UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

RE-7 LAP REINFORCEMENT ONLY AT LOCATIONS AS SPECIFICALLY DETAILED ON THE DRAWINGS EXCEPT REINFORCEMENT MARKED AS CONTINUOUS CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR USING TENSION LAP SPLICES (LTS). SEE LAP SPLICE AND EMBEDMENT SCHEDULE.

RE-8 UNLESS OTHERWISE NOTED ALL LAP SPLICES ARE TO BE TENSION LAP SPLICES PER LAP SPLICE AND EMBEDMENT SCHEDULE.

RE-9 PROVIDE MECHANICAL SPLICES FOR BARS LARGER THAN #11 OR WHERE INDICATED. PROVIDE TENSILE, PRE-QUALIFIED, WELDED OR THREADED MECHANICAL SPLICES UON.

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

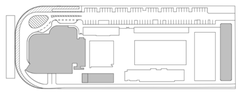
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
GENERAL NOTES

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S0-001

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RE-10 LAP WELDED WIRE REINFORCEMENT TWO PANEL SPACINGS, UON.

RE-11 PROVIDE LAP SPLICE LOCATIONS AS FOLLOWS, UON:
- A. GRADE BEAM / WALL (TOP HORIZONTAL REINFORCEMENT): AT CENTER OF SPAN
- B. GRADE BEAM / WALL (BOTTOM HORIZONTAL REINFORCEMENT): AT SUPPORTS
- C. WALL INSIDE FACE (VERTICAL REINFORCEMENT): AT SUPPORT
- D. WALL OUTSIDE FACE (VERTICAL REINFORCEMENT): AT STORY MIDHEIGHT OF WALL FOR BELOW GRADE FOUNDATION WALLS, AT SUPPORT FOR OTHER WALLS
- E. UNLESS OTHERWISE NOTED TERMINATE BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.

RE-12 PROVIDE EPOXY COATED REINFORCEMENT AND ACCESSORIES IN AREAS OF DIRECT EXPOSURE TO THE ENVIRONMENT, CHEMICALS, OR DE-ICING FOR THE AREAS INDICATED ON THE DRAWINGS.

CJ CONCRETE CONSTRUCTION AND CONTRACTION JOINTS

CJ-1 PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318. SUBMIT SHOP DRAWINGS SHOWING PROPOSED CONSTRUCTION JOINT LOCATIONS, DETAILS AND THE PLACEMENT SEQUENCE FOR THE SER'S APPROVAL PRIOR TO PROCEEDING WITH WORK.

CJ-2 UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN FOOTINGS, PILE CAPS, MAT FOUNDATIONS, GRADE BEAMS, BEAMS, UPTURNED BEAMS, SLABS, AND WALLS WITHOUT PRIOR WRITTEN APPROVAL FROM THE SER BEFORE CONSTRUCTION.

CJ-3 PLACE VERTICAL CONSTRUCTION JOINTS TO PROVIDE A **60 FT** MAXIMUM LENGTH OF CONCRETE PLACEMENT AND LOCATE AS FOLLOWS:
- A. FOUNDATION WALLS: MINIMUM OF **8 FT** FROM ANY WALL INTERSECTION, PILASTER, PIER, OR WALL OPENING
- B. BEAMS AND GRADE BEAMS: WITHIN THE MIDDLE THIRD OF THE CLEAR SPAN AVOIDING LAP SPLICES, SUBJECT TO SER APPROVAL.

CJ-4 PROVIDE CONTINUOUS WATERSTOPS AT ALL CONSTRUCTION JOINTS EXPOSED TO SOIL OR WATER, AS DESCRIBED IN THE SPECIFICATIONS AND WHERE INDICATED IN THE ARCHITECTURAL DOCUMENTS.

PT POST-TENSIONED CONCRETE

GENERAL:

PT-0 POST-TENSIONED CONCRETE WORK SHALL CONFIRM TO CONTRACT SPECIFICATION SECTION 033800. A QUALIFIED TESTING AGENCY SHALL COORDINATE INSPECTIONS OF ALL POST-TENSIONING WORK FOLLOWING THE THRESHOLD INSPECTION PLANS.

MATERIAL:

PT-1 POST-TENSIONING SYSTEM SHALL BE UNBONDED MONO-STRAND SYSTEM UON. THE STRAND SHALL BE 1/2-INCH DIAMETER, SEVEN-WIRE LOW RELAXATION STRAND GRADE 270 CONFIRMING TO ASTM A416.

PT-2 TENDONS SHALL BE COATED WITH CORROSION PREVENTIVE GREASE AND ENCLOSED IN A CONTINUOUS PLASTIC SHEATHING, AND RUST PROTECTED. PROVIDE COMPLETE WATERTIGHT ENCAPSULATION SYSTEM FOR PRESTRESSING STEEL, ANCHORAGES, AND COUPLINGS IN COMPLIANCE WITH ACI 423. ALL ANCHORING HARDWARE SHALL MEET THE MINIMUM REQUIREMENTS SET FORTH IN ACI 423.7- SPECIFICATION FOR UNBONDED SINGLE-STRAND TENDON MATERIALS.

PT FORCE:

PT-3 POST-TENSIONING FORCES INDICATED ON THE STRUCTURAL DRAWINGS ARE THE REQUIRED FINAL EFFECTIVE FORCES AFTER ALL IMMEDIATE AND LONG-TERM LOSSES. THE POST-TENSIONING SUPPLIER IS RESPONSIBLE FOR CALCULATIONS OF FRICTION AND PRESTRESS LOSSES AND TO PROVIDE FINAL EFFECTIVE FORCE AS INDICATED IN THE STRUCTURAL DRAWINGS. THE SHOP DRAWINGS SHALL BE ACCOMPANIED BY SIGNED AND SEALED COMPUTATIONS OF ALL POST-TENSION LOSSES SHOWING THAT THE FINAL EFFECTIVE FORCE WILL BE ACHIEVED. NO DEVIATIONS FROM THE QUANTITIES SHOWN ON THE STRUCTURAL DRAWINGS ARE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE SER. ALL THE CALCULATIONS SHALL BE PERFORMED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

INSTALLATION:

PT-4 FIELD FOREMAN: THE FIELD FORMAN RESPONSIBLE FOR THE PLACEMENT, STRESSING AND FINISHING OF ALL POST-TENSIONING MATERIAL (INCLUDING ALL MILD REINFORCEMENT NECESSARY FOR PROPER INSTALLATION OF THE POST-TENSIONING TENDONS) SHALL BE PTI CERTIFIED WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF CONSTRUCTION.

PT-5 TENDONS SHALL BE DRAPED TO APPROXIMATE A PARABOLIC PROFILE BETWEEN SUPPORTS, UON, AND SHALL CONFORM TO THE CONTROL POINTS SHOWN IN THE PROFILE ON THE DRAWINGS. DIMENSIONS SHOWN INDICATE THE CENTER OF GRAVITY OF THE TENDON OR GROUP OF TENDONS. LOW POINTS ARE AT MID-SPAN UON. EFFECTIVE COVERS SHOWN ON THE DRAWINGS SHALL NOT BE VARIED TO ACHIEVE THE PROFILE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. PROPER TENDON LOCATION SHALL HAVE PRIORITY OVER ALL OTHER MATERIALS AND TRADES. RELOCATING TENDONS CAN ONLY BE DONE WITH WRITTEN APPROVAL FROM THE SER. UON, TYPICAL TENDON ELEVATIONS SHOULD BE AS FOLLOWS:
- A. 1" FROM THE TOP AT SUPPORTS
- B. 1" FROM THE BOTTOM AT MIDSPAN
- C. MID-DEPTH AT SLAB EDGE

PT-6 TENDON LAYOUT AND SPACING SHALL BE CLEARLY SHOWN IN THE SHOP DRAWINGS SUBMITTED FOR APPROVAL. PROPER TENDON LOCATION SHALL HAVE PRIORITY OVER ALL OTHER MATERIAL AND TRADES. SLIGHT DEVIATION IN SPACING OF SLAB TENDONS SHOWN ON THE DRAWINGS MAY BE PERMITTED WHERE REQUIRED TO AVOID OPENINGS OR OTHER OBSTRUCTIONS. MAJOR DEVIATION OF TENDON LAYOUT CAN ONLY BE DONE WITH WRITTEN APPROVAL FROM THE SER. TENDON INSTALLATION MAY NOT BEGIN UNTIL THE CONTRACTOR HAS OBTAINED APPROVAL OF THE SHOP DRAWINGS.

PT-7 TENDON PLACEMENT: CARE SHALL BE TAKEN THAT TENDONS ARE INSTALLED AND HELD IN THEIR DESIGNATED POSITIONS AS SHOWN ON THE APPROVED INSTALLATION SHOP DRAWINGS. EXCEPT AS NOTED IN THE CONSTRUCTION DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD, TOLERANCES FOR THE VERTICAL LOCATION OF THE PRESTRESSING STEEL SHALL NOT BE MORE THAN ±1/4" FOR SLAB THICKNESS LESS THAN 8", 3/8" FOR CONCRETE WITH DIMENSIONS MORE THAN 8" BUT NOT MORE THAN 2'-0", AND 1/2" FOR CONCRETE WITH DIMENSIONS MORE THAN 2'-0".

PT-8 WHEN THE TENDONS IN THE POST-TENSIONED SLABS ARE MOVED LATERALLY TO CLEAR OPENINGS AND/OR SLEEVES AT FIXED LOCATIONS, PROVIDE A MINIMUM 2" CLEAR DISTANCE BETWEEN SUCH OPENINGS AND/OR SLEEVES AND THE RELOCATED TENDONS. ALL OPENINGS AND/OR SLEEVES SHOULD BE POSITIONED IN THE PROPER LOCATIONS PRIOR TO POURING OF THE CONCRETE.

PT-9 THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER WHERE TENDONS FOR DIFFERENT POST-TENSIONED MEMBERS INTERFERE WITH ONE ANOTHER. RELOCATING TENDONS CAN ONLY BE DONE WITH WRITTEN APPROVAL FROM THE SER.

PT-10 MINIMUM CHAIRING FOR SLAB TENDONS: TENDONS SHALL BE SUPPORTED ON (#4) REINFORCING BARS SPACED AT A MAXIMUM OF 48" ON CENTER AND SECURED TO THE SUPPORT BAR AT EACH TENDON/SUPPORT BAR INTERSECTION TO ENSURE THAT THE CORRECT VERTICAL AND HORIZONTAL LOCATION IS MAINTAINED DURING THE PLACING OF THE CONCRETE. SUPPORTS SHALL BE INSTALLED TO PREVENT EXCESSIVE MOVEMENT DURING PLACEMENT OF CONCRETE. CHAIRS GREATER THAN 2-1/2" IN SIZE SHALL BE STAPLED TO THE FORMWORK.

PT-11 TENDONS OVER COLUMNS
IN TWO-WAY SLAB CONSTRUCTION, ALL REQUIRED TENDONS MUST BE PLACED THROUGH THE CENTER OF MASS OF THE COLUMN AS BEST AS POSSIBLE IN THE BANDED DIRECTIONS. A MINIMUM OF TWO TENDONS IN BOTH DIRECTIONS MUST PASS BETWEEN THE COLUMN LONGITUDINAL REINFORCEMENT. DISTRIBUTED TENDONS SHALL BE PLACED IN A LAYER BELOW THE BANDED TENDONS AT COLUMN LOCATIONS.

PT-12 TENDON GROUPS: TENDONS IN BANDED TENDON BEAMS AND SLABS SHALL BE GROUPED TO PROVIDE ADEQUATE CLEARANCE TO MILD REINFORCING AND FACILITATE CONCRETE PLACEMENT. THE MAXIMUM NUMBER OF STRANDS PER BUNDLE IS FIVE (5) FOR SLABS AND SIX (6) FOR BEAMS UNLESS OTHERWISE NOTED ON THE APPROVED INSTALLATION DRAWINGS.

PT-13 POUR STRIP:
SHRINKAGE COMPENSATING POUR STRIP HAS BEEN DESIGNED TO REDUCE LOCKED-IN SHRINKAGE STRESSES THAT MAY OCCUR. REINFORCEMENT FROM EACH SIDE OF THIS AREA SHOULD BE LAPPED AS PER TYPICAL POUR STRIP DETAIL. NO REINFORCEMENT SHALL BE CONTINUOUS THROUGH THIS POUR STRIP.

PT-14 CONSTRUCTION JOINT LOCATION, POUR STRIPS AND POUR SEQUENCE IF ANY SHOWN ON THE DRAWINGS HAS BEEN CONSIDERED IN THE DESIGN TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING. IF A CHANGE IS REQUESTED, THEN THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING PROPOSED CONSTRUCTION JOINT LOCATIONS, POUR STRIPS AND POUR SEQUENCE TO THE SER FOR REVIEW AND APPROVAL. ANY ADDITIONAL REINFORCING SHALL BE PROVIDED AS PER TYPICAL DETAILS SHOWN ON THESE DRAWINGS.

PT-15 PENETRATIONS, INSERTS AND OPENINGS IN SLABS:
ALL OPENINGS IN CONCRETE SLABS SHALL BE LOCATED, SIZED AND REINFORCED (WITH THE EXCEPTION OF SMALL OPENINGS AND/OR SLEEVES OF A SIZE UP TO 12 IN THAT WILL NOT DISPLACE OR INTERRUPT THE CONTINUITY OF THE REINFORCING) AS SHOWN ON RESPECTIVE FLOOR PLANS AND DETAILS. ANY ALTERATIONS REQUIRE APPROVAL OF THE STRUCTURAL ENGINEER. (SEE TYPICAL SLAB OPENING DETAIL). G.C. TO PROVIDE ALLOWANCE FOR THE REINFORCING REQUIRED FOR ALL OPENINGS. ALL OPENINGS REQUIRED BY OTHER TRADES ARE TO BE COORDINATED W/ARCH. & MECH. DWGS., AND ARE SUBJECT TO STRUCTURAL ENGINEERING APPROVAL. SUBMIT DRAWINGS SHOWING ALL SLAB PENETRATIONS AND BLOCK-OUTS INCLUDING EMBEDMENTS AND INSERTS WELL IN ADVANCE WITH AT LEAST FOUR WEEKS PRIOR TO CONCRETE POUR FOR REVIEW BY THE SER.

PT-16 THE CONTRACTOR SHALL COORDINATE THE LOCATION OF EMBEDDED ITEMS WITH POST-TENSIONING MATERIAL SUPPLIER AND RESOLVE ANY CONFLICTS PRIOR TO INSTALLATION. PIPES OR CONDUITS PLACED IN POST-TENSIONED SLABS SHALL NOT BE PLACED CLOSER THAN 3-DIAMETERS ON CENTER AND SHALL HAVE AN OUTSIDE DIAMETER LESS THAN 1/4 OF THE SLAB THICKNESS. CONDUITS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB THICKNESS, INCLUDING LOCATIONS WHERE CONDUIT CROSSES, AND SHALL BE POSITIONED SO THAT THEY DO NOT INTERFERE WITH SLAB REINFORCEMENT. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. SUBMIT AN EMBEDDED CONDUIT PLAN TO THE SER 30 DAYS PRIOR TO ANY SLAB POUR.

PT-17 CORING OF POST-TENSIONED MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE SER.

STRESSING:

PT-18 TENDONS SHALL BE STRESSED WITHIN 72 HOURS OF POURING CONCRETE. THE STRESSING OF TENDONS SHALL BE PERMITTED ONLY AFTER THE CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI BASED ON THE LOWEST BREAK, OR AS OTHERWISE DEFINED ON DRAWINGS.

PT-19 STRESSING SEQUENCE
1- STRESS ALL TEMPERATURE TENDONS.
2- STRESS ALL UNIFORM TENDONS.
3- STRESS ALL BANDED TENDONS.
4- STRESS ALL BEAM TENDONS.

PT-20 CALIBRATION: THE RAM AND ATTENDANT GAUGE USED AS A UNIT SHALL HAVE BEEN CALIBRATED WITHIN SIXTY (60) DAYS OF THEIR USE.

PT-21 ELONGATION MEASUREMENTS SHALL BE MADE AT EACH STRESSING LOCATION. RECORDS SHALL BE KEPT OF ALL JACKING FORCES AND ELONGATIONS. PRESTRESS INSPECTOR SHALL PROMPTLY SUBMIT CERTIFIED RECORDS OF THE ELONGATION AND GAGE READINGS OF THE STRESSING OPERATION TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO CUTTING EXCESS TENDON LENGTHS. INDIVIDUAL TENDON ELONGATION READINGS SHALL NOT VARY BY MORE THAN ±7% FROM CALCULATED REQUIRED VALUES SHOWN ON SHOP DRAWINGS. IF MEASURED ELONGATIONS VARY FROM CALCULATED VALUES BY MORE THAN ±7%, THE CONTRACTOR SHALL PROVIDE EXPLANATION IN WRITING SUPPORTED BY FRICTION CALCULATIONS AND/OR OTHER JUSTIFICATION TO THE SATISFACTION OF THE ENGINEER. SUCH DOCUMENTATION SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. LIFT-OFFS SHALL ONLY BE PERFORMED AT THE DIRECTION OF THE SER.

FINISHING AND GROUTING OF STRESSING POCKETS:

PT-22 AFTER STRESSING IS COMPLETED, ELONGATIONS VERIFIED AND WITH PRIOR APPROVAL OF THE STRUCTURAL EOR, TENDONS TAILS SHALL BE CUT OFF BETWEEN 1/2" – 3/4" FROM ANCHOR WEDGES USING AN ABRASIVE WHEEL, HYDRAULIC SHEARS, OR A PLASMA CUTTER. USE OF AN OXYACETYLENE TORCH IS NOT PERMITTED.

PT-23 AS SOON AS PRACTICAL AFTER STRANDS HAVE BEEN CUT OFF AND INSPECTED; THE TENDON TAILS SHALL BE PROPERLY GREASE-CAPPED (PRE-FILLED WITH GREASE) WITHIN ONE DAY PROVIDING POSITIVE MECHANICAL CONNECTION TO THE ANCHORAGES.

PT-24 AFTER SATISFACTORY COMPLETION OF TENDON TAIL FINISHING, TO STOP MOISTURE PENETRATION, STRESSING POCKETS SHALL BE FILLED WITH NON-METALLIC AND NON-SHRINK GROUT WITH BONDING AGENT TO ENHANCE THE BOND BETWEEN THE GROUT AND THE STRESSING POCKET. MAKE SURE THAT THE POCKETS ARE FREE FROM DEBRIS AND GREASE. GROUT USED FOR FILLING POCKET SHALL NOT CONTAIN CHLORIDES OR OTHER CHEMICALS KNOWN TO BE DELETERIOUS TO PRESTRESSING STEEL, AND SHALL BE NON-REACTIVE WITH PRESTRESSING STEEL, ANCHORAGE MATERIAL AND CONCRETE.

GENERAL:

PT-25 NO FLOOR SHALL BE POURED UNTIL THE FLOOR BELOW HAS BEEN COMPLETELY STRESSED, UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE SER.

PT-26 POST-INSTALLED ANCHORS SHALL NOT PENETRATE MORE THAN 3/4- INCH INTO POST-TENSIONED MEMBER UNLESS SPECIAL PRECAUTIONS ARE USED TO INDICATE LOCATIONS OF ALL TENDONS. POST-INSTALLED ANCHORS INTO POST-TENSIONED MEMBERS SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE SER.

PT-27 SHORING: UNLESS FULL SHORING IS REQUIRED TO CARRY THE FLOORS ABOVE, THE SHORING SUPPORTING SLABS AND BEAMS MAY BE STRIPPED WHEN ALL TENDONS HAVE BEEN SATISFACTORILY STRESSED AND THE SER'S APPROVAL IS OBTAINED. RE-SHORE IN ACCORDANCE WITH THE APPROVED SHORING PLAN. SHORING REQUIREMENTS FOR STAGE-STRESSED TRANSFER GIRDERS SHALL BE NOTED ON THE DRAWINGS. IN AREAS SUPPORTING PARTIAL SPAN SUCH AS NEAR A POUR STRIP OR CONSTRUCTION JOINT, THE SHORING IN THE PARTIAL SPAN SHALL STAY IN PLACE UNTIL THE REMAINING SECTION OF THE SPAN HAS BEEN POURED AND STRESSED. IN SOME CASES, THE IMMEDIATE BACK SPAN MAY ALSO NEED TO REMAIN SHORED UNTIL THE ADJACENT SPAN IS COMPLETED. IF THIS IS REQUIRED, IT SHALL BE SPECIFIED ON THE POST-TENSIONING INSTALLATION DRAWINGS.

PT-28 MITIGATION OF RESTRAINT CRACKS IN POST-TENSIONED SLABS
SPECIAL NOTES TO OWNER: UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THIS PROJECT, REINFORCED CONCRETE AS WELL AS POST-TENSIONED CONCRETE DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. THESE TYPES OF CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB NORMALLY MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. DUE TO SPECIAL FEATURES OF UNBONDED POST-TENSIONING, IT IS POSSIBLE THAT A NUMBER OF HAIR CRACKS, WHICH WOULD NORMALLY SPREAD OVER A WIDE AREA, WILL INTEGRATE INTO A SINGLE CRACK WITH A WIDTH EXCEEDING 0.01 INCH. IT IS EMPHASIZED THAT ALTHOUGH CRACK MITIGATION TECHNIQUES HAVE BEEN IMPLEMENTED IN THE DESIGN OF THE SLABS FOR THIS PROJECT, IT IS NOT PRACTICAL TO ACHIEVE COMPLETE INHIBITION OF ALL CRACKS. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. THESE CRACKS DO NOT NORMALLY IMPAIR THE STRUCTURAL INTEGRITY OF THE SLABS, HOWEVER THEY NEED TO BE SEALED TO PROTECT THE REINFORCING FROM EXPOSURE TO HUMIDITY AND CORROSIVE ENVIRONMENT. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED. JOINTS ARE PROVIDED TO ALLOW MOVEMENTS. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST. THE GENERAL CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER TO INSPECT THE SLABS IN ORDER TO DETERMINE IF CRACKS ARE PRESENT, WHETHER THEY NEED TO BE SEALED AND/OR EPOXY INJECTED AND PROVIDE SPECIFICATIONS AND/OR REPAIR PROCEDURES & PERFORM THE REPAIRS. AN APPROXIMATE COST FOR THESE REPAIRS SHALL BE ESTIMATED AND PAID BY OWNER/CONTRACTOR. REFER TO THE BID NOTES

MA MASONRY

MA-1 LOAD BEARING, NON-LOAD BEARING, AND BACKUP WALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:

CONCRETE BLOCK:	ASTM C90, NORMALWEIGHT (135 PCF)
MORTAR:	ASTM C270, TYPE S OR M PORTLAND CEMENT
GROUT:	ASTM C476 COMPRESSIVE STRENGTH 2000 PSI (28 DAY) SELF-CONSOLIDATING (REQUIRED UNLESS MECHANICAL VIBRATION IS USED TO CONSOLIDATE THE GROUT)
REINFORCEMENT:	ASTM A615, GRADE 60
JOINT REINFORCEMENT:	ASTM A951, TRUSS OR LADDER TYPE GALVANIZE PER ASTM A153
ADHESIVE ANCHORS:	HILTI HIT-HY 270

MA-2 THE MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY (f' m) SHALL BE 2,000 PSI UON, VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH THE ABOVE REFERENCED SPECIFICATIONS.

MA-3 CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.

MA-4 PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.

MA-5 PROVIDE FULL MORTAR COVERAGE ON WEBS AROUND ALL GROUTED CELLS.

MA-6 LAY MASONRY UNITS IN RUNNING BOND UON WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COURSE.

MA-7 REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. WHERE INDICATED ON DRAWINGS, INTERLOCK WALLS WITH METAL TIES, ANCHORS OR PREFABRICATED JOINT REINFORCEMENT UON ON DRAWINGS OR IN SPECIFICATIONS.

MA-8 GROUT SOLID CELLS WITH REINFORCEMENT. GROUT SOLID CELLS IN BELOW GRADE CONSTRUCTION WHERE MASONRY IS IN CONTACT WITH SOIL.

MA-9 PROVIDE MINIMUM VERTICAL REINFORCING OF #5 AT 48"OC, UNLESS NOTED OTHERWISE ON PLAN OR MASONRY WALL SCHEDULES.

MA-10 GROUT MINIMUM OF ONE (1) CELL WITH REINFORCEMENT AT EACH SIDE OF ALL OPENINGS. SEE DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

MA-11 WHERE STRAP ANCHORS ARE REQUIRED BY DRAWINGS OR SPECIFICATIONS, LOCATE THEM AT DIFFERENT BED JOINTS THAN THOSE RECEIVING HORIZONTAL JOINT REINFORCEMENT.

MA-12 PROVIDE HORIZONTAL JOINT REINFORCING PER SPECIFICATION IN EVERY OTHER COURSE (I.E. 16" OC)

MA-13 WHERE REQUIRED, LAP HORIZONTAL JOINT REINFORCEMENT BY AT LEAST 6 INCHES.

MA-14 WHEN THE FOLLOWING CONDITIONS ARE MET, PLACE GROUT IN LIFTS NOT EXCEEDING 12FT-8IN
1. MASONRY HAS CURED FOR AT LEAST 4 HOURS
2. GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 INCHES
3. NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND THE BOTTOM OF THE POUR HEIGHT.
4. CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF MASONRY. SELF-CONSOLIDATING GROUT DOES NOT NEED TO MEET CONDITIONS #1 OR #2. WHEN THE PREVIOUS CONDITIONS ARE NOT MET, PLACE GROUT IN LIFTS NOT EXCEEDING 5FT-4IN.

MA-15 CONSOLIDATE GROUT LIFTS BY MECHANICAL VIBRATION, AND RECONSOLIDATE AFTER INITIAL WATER LOSS. EXCEPTION: CONSOLIDATION AND RECONSOLIDATION IS NOT REQUIRED WHEN SELF-CONSOLIDATING GROUT IS USED.

AC ARCHITECTURAL CLADDING

AC-1 TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR ASSUMED CONNECTIONS OF ARCHITECTURAL CLADDING TO BASE BUILDING STRUCTURE. PROVIDE DESIGNS THAT MEET INDICATED CRITERIA AND CONFORM TO LISTED CODES AND STANDARDS. REFER TO SUBMITTALS SECTION IN THESE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

PA POST-INSTALLED ANCHORS

PA-1 ADHESIVE ANCHOR SYSTEMS USED FOR DESIGN:

SEISMIC DESIGN CATEGORY A - F

ADHESIVE: HILTI HIT-HY 200 V3

THREADED ROD: HILTI HAS

OVERHEAD AND/OR CONSTANT TENSION ADHESIVE ANCHOR INSTALLATIONS NOT SHOWN ON THE DRAWINGS SHALL NOT BE PERMITTED UNLESS EACH CONDITION IS REVIEWED AND APPROVED IN WRITING BY THE SER.

PA-2 PROOF TESTING OF ADHESIVE ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. UNLESS NOTED OTHERWISE, ADHESIVE ANCHOR PROOF TENSION LOADS SHALL BE PER THE ADHESIVE ANCHOR PROOF SCHEDULES.

PA-3 FIELD DRILLED EXPANSION ANCHOR SYSTEMS USED FOR DESIGN:

HILTI KWIK BOLT TZ2

PA-4 PROOF TESTING OF EXPANSION ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. UNLESS NOTED OTHERWISE, EXPANSION ANCHOR PROOF TORQUE LOADS SHALL BE PER THE EXPANSION ANCHOR PROOF SCHEDULES.

PA-5 FIELD DRILLED THREADED SCREW ANCHOR SYSTEMS USED FOR DESIGN:

HILTI KH-EZ

PA-6 ALTERNATIVE SYSTEM EQUIVALENT TO OR EXCEEDING THE PROPERTIES OF THE SYSTEMS ABOVE WILL BE CONSIDERED AS A SUBSTITUTION REQUEST. SEE PROJECT SPECIFICATIONS.

PA-7 ANCHORS ARE TO BE MINIMUM **3/4**" DIAMETER WITH A MINIMUM EMBEDMENT OF **6"**, UON.

PA-8 INSTALL ANCHORS TO MEET THE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS AND THE CURRENT MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS (MPII).

PA-9 LOCATE, BY NON-DESTRUCTIVE MEANS, AND AVOID ALL EXISTING REINFORCEMENT PRIOR TO INSTALLATION OF ANCHORS. IF EXISTING REINFORCING LAYOUT PROHIBITS THE INSTALLATION OF ANCHORS AS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONALS.

PA-10 INSTALL ANCHORS IN SOLID MASONRY OR IN HOLLOW MASONRY THAT HAS BEEN GROUTED SOLID AT LEAST ONE COURSE ABOVE TO ONE COURSE BELOW THE ANCHOR, UON.

PA-11 SEE PROJECT SPECIFICATIONS FOR POST-INSTALLED ANCHOR INSPECTION REQUIREMENTS.

BN BID NOTES

BN-1 THE CONTRACTOR'S AND ALL SUBCONTRACTOR'S BIDS SHALL INCLUDE ADD/DEDUCT UNIT PRICES FOR EACH OF THE ITEMS LISTED. THE COST FOR ANY UNUSED PORTIONS OF THE LISTED QUANTITIES SHALL BE CREDITED TO THE OWNER.

BN-2 THIS MATERIAL SHALL BE IN ADDITION TO THAT INDICATED ON THE CONTRACT DOCUMENTS. THE BID PRICE SHALL PROVIDE FOR THE DETAILING, FABRICATION, DELIVERY, AND INSTALLATION OF THE MATERIAL IN THE BUILDING IN SUCH SIZES AND FORMS AS THE DESIGN PROFESSIONALS MAY DIRECT, WITHOUT ADDITIONAL COST TO THE OWNER.

BN-3 THE REINFORCED CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THE BASE BID THE IN-PLACE COST OF THE FOLLOWING ITEMS:

BN-4 THE STRUCTURAL STEEL SUBCONTRACTOR SHALL INCLUDE IN THE BASE BID THE IN-PLACE COST OF THE FOLLOWING ITEMS:

BN-5 IF NO CONNECTION FORCES ARE INDICATED ON THE DRAWINGS, STRUCTURAL STEEL SUBCONTRACTOR SHALL ASSUME THAT BEAM AND GIRDER CONNECTIONS ARE CAPABLE OF DEVELOPING AT LEAST 50 PERCENT OF THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER USING THE REACTION FROM THE ALLOWABLE LOAD OF THE BEAM AS TABULATED IN THE AISC LRFD MANUAL OF STEEL CONSTRUCTION. FOR COMPOSITE BEAMS MULTIPLY THE UNIFORMLY DISTRIBUTED LOAD CAPACITY BY 2.0 TO ACCOUNT FOR THE TRANSFORMED COMPOSITE CROSS SECTION.

BN-6 CONTRACT DOCUMENTS ISSUED FOR BID ARE NOT ISSUED FOR CONSTRUCTION UNLESS SPECIFICALLY NOTED AS "ISSUED FOR CONSTRUCTION".

PU PURPOSE OF ISSUANCE

PU-1 THESE DRAWINGS IDENTIFIED AS **30% CD SET** DATED **08/26/22** ARE ISSUED AS **30% CD SET ONLY – NOT FOR CONSTRUCTION**.

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

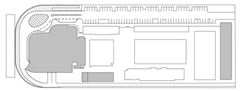
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
GENERAL NOTES

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S0-002

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ABBREVIATION	DESCRIPTION
ADDL	ADDITIONAL
ADJ	ADJACENT
ALT	ALTERNATE
APPRX	APPROXIMATE
ARCH	ARCHITECT OR ARCHITECTURAL
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BTWN	BETWEEN
C	COMPRESSION
CIP	CAST-IN-PLACE
CL	CENTER LINE
CLR	CLEAR OR CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION(S)
CONT	CONTINUOUS
db	REINFORCING BAR DIAMETER
DBL	DOUBLE
DEG	DEGREE(S)
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DL	DEAD LOAD
DWG(S)	DRAWING(S)
DWL	DOWEL(S)
EA	EACH
ECC	ECCENTRICITY
EL	ELEVATION
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
EXST	EXISTING
EXT	EXTERIOR
FLR	FLOOR
FND	FOUNDATION
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GR	GRADE
HK	HOOK
HORIZ	HORIZONTAL
HT	HEIGHT
INFO	INFORMATION
INT	INTERIOR
JST(S)	JOIST(S)
JT	JOINT
K	KIPS (1,000 POUNDS)
KLF	KIP PER LINEAR FOOT
KSF	KIP PER SQUARE FOOT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
M	MOMENT
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL

ABBREVIATION	DESCRIPTION
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
NWC	NORMALWEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)
OPP	OPPOSITE
PCY	POUNDS PER CUBIC YARD
PERP	PERPENDICULAR
PG	PLATE GIRDER
PL	PLATE
PRC	PRECAST
PRLL	PARALLEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
REINF	REINFORCE(D) (ING) OR (MENT)
REQD	REQUIRED
SCHED	SCHEDULE(D)
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	SPACE
SPEC(S)	SPECIFICATION(S)
STD	STANDARD
STL	STEEL
STR	STRUCTURE
SYM	SYMMETRICAL
T	TENSION
T&B	TOP AND BOTTOM
T/	TOP OF
TEMP	TEMPERATURE OR TEMPORARY
TEN	TENSION
THK	THICK OR THICKNESS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	SHEAR
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WPFG	WATERPROOFING
WS	WATERSTOP
WWR	WELDED WIRE REINFORCEMENT

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
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FORT LAUDERDALE, FL 33301
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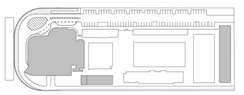

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
GENERAL NOTES AND ABBREVIATIONS

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S0-003

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STRUCTURAL INSPECTION PLAN

1. GENERAL

1. THIS STRUCTURAL INSPECTION PLAN IS PREPARED IN ACCORDANCE WITH SECTION 553.79(5) OF THE FLORIDA STATUTES DESCRIBING THE REQUIREMENT FOR A STRUCTURAL INSPECTION PLAN PREPARED BY THE ENGINEER OF RECORD FOR THRESHOLD BUILDINGS. THE PURPOSE OF THIS STRUCTURAL PLAN IS TO PROVIDE INSPECTION PROCEDURES AND SCHEDULES SO THE BUILDING CAN BE ADEQUATELY INSPECTED FOR COMPLIANCE WITH THE PERMITTED DOCUMENTS.
2. THE THRESHOLD BUILDING INSPECTOR (SPECIAL INSPECTOR) SHALL INSPECT THE FRAMING SHOWN ON THE STRUCTURAL DRAWINGS IN ACCORDANCE WITH THIS PLAN TO VERIFY THAT THE WORK IS CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR ACCEPTED VARIATIONS.
   A. THE CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED DRAWINGS, PROJECT SPECIFICATIONS, AND RECORDED ADDENDA AND AMENDMENTS.
   B. EXCEPT AS NOTED, WORK OF THIS PLAN EXCLUDES THE INSPECTION OF ELEMENTS THAT DO NOT CONTRIBUTE TO THE CAPACITY OF THE PRIMARY STRUCTURAL FRAME. THIS INCLUDES, BUT IS NOT LIMITED TO: RAILINGS, FIRE PROTECTION, ROOFING, GLAZED WINDOW SYSTEMS, MECHANICAL/ELECTRICAL SYSTEMS, ARCHITECTURAL COMPONENTS, SITE WORK, AND OSHA SAFETY PROVISIONS OR OTHER SAFETY STANDARDS THAT APPLY DURING THE CONSTRUCTION PERIOD. PRECAST CLADDING, EXTERIOR MASONRY WALLS AND SLAB-ON-GRADE ARE SPECIFICALLY INCLUDED.
3. THE OWNER SHALL BE RESPONSIBLE TO EMPLOY THE SERVICES OF A THRESHOLD BUILDING INPSECTOR IN COMPLIANCE WITH THE PROVISION OF CHAPTER 553.79 OF FLORIDA STATUTES.
4. AT A MINIMUM, THE THRESHOLD BUILDING INSPECTOR SHALL PERFORM THE MANDATORY STRUCTURAL INSPECTIONS AS REQUIRED UNDER THE PROVISIONS OF THE 2020 FLORIDA BUILDING CODE, IN ACCORDANCE WITH THE SCOPE AND SCHEDULE OUTLINED HEREIN.
5. THE THREHOLD BUILDING INSPECTOR SHALL MAINTAIN A LOG OF EACH SITE VISIT DOCUMENTING THE PROGRESS OF THE WORK, THE RELEVANT TESTING, THE AREAS INSPECTED AND ANY OTHER ELEMENTS PERTINENT TO THE WORK PROGRESS AT THE TIME OF THE INSPECTION.
6. DAILY SIGNED AND SEALED FIELD REPORTS SHALL BE SUBMITTED ON A WEEKLY BASIS TO THE ENFORCING AGENCY, AND OWNER'S REPRESENTATIVE.
7. THE SPECIAL INSPECTOR SHALL NOT MAKE DESIGN DECISIONS, DIRECT THE CONTRACTOR'S WORK, NOR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.
8. THE SPECIAL INSPECTOR MAY SEND A FULL-TIME EMPLOYEE AS HIS AUTHORIZED REPRESENTATIVE TO THE PROJECT, BUT THAT PERSON SHALL BE KNOWLEDGABLE AND HAVE A COLLEGE DEGREE IN ENGINEERING OR HAVE A MINIMUM OF TEN YEARS OF EXPERIENCE IN THE STRUCTURAL SYSTEM BEING USED.

II. CONTRACTOR RESPONSIBILITES

1. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE THRESHOLD BUILDING INSPECTOR PRIOR TO THE NEED FOR ANY INSPECTION ON SITE.
2. THE CONTRACTOR SHALL PROVIDE THE THRESHOLD BUILDING INSPECTOR A COPY OF ALL PREMIT DOCUMENTS, REVIEWED AND APPROVED SHOP DRAWING SUBMITTAL, TEST REPORTS, SHORING AND RE-SHORING PLANS, AND OTHER ITEMS THAT MAY BE RQUIRED FOR THE THRESHOLD BUILDING INSPECTOR TO COMPLY WITH THIS STRUCTURAL INSPECTION PLAN.
3. THE THRESHOLD INSPECTOR DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO COMPLY WITH CONTRACT DOCUMENTS. THE CONTRACTOR HAS THE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS AND THE COSTS OF RECTIFYING THOSE DEVIATIONS.
4. THE CONTRACTOR MAY CORRECT WORK PERFORMED IN NONCOMPLIANCE WITH THE CONTRACT DOCUMENTS OR CONTRACTOR MAY ISSUE TO THE DESIGN PROFESSIONAL A REQUEST OF ACCEPTANCE OF THE DEVIATION.
5. CONSTRUCTION PERFORMED WITOUT INSPECTION MAY REQUIRE TESTING OR MAY NEED TO BE REMOVED AS DETERMINED BY THE DESIGN PROFESSIONAL.
6. INSTALLATION OF ALL SHORING AND RE-SHORING PER SHOP DRAWINGS PREPARED BY THE DELEGATED SHORING ENGINEER. THE SHORING ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL INSPECT THE SHORING AND RE-SHORING, AND PROVIDE A WRITTEN, SIGNED AND SEALED, INSPECTION REPORT TO THE THRESHOLD INSPECTOR PRIOR TO ALL CONCRETE POURS.
7. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR WITH SHOP DRAWINGS, APPROVED MIX DESIGNS, CURRENT REVISED DRAWING AND SKECTHES.

III. OWNER RESPONSIBILITES

1. THE OWNER SHALL ARRANGE FOR THE GEOTECHNICAL ENGINEER TO PROVIDE INSPECTION SREVICES TO MONITOR THE PREPARATION OF THE FOUNDATION BEARING SURFACE AND PILE FOUNDATION ELEMENTS.
2. THE OWNER SHALL ARRANGE FOR INDEPENDENT TESTING LABORATORY TO PROVIDE FOR MATERIAL SAMPLING AND TESTING SERVICES REQUIRED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE.
3. THE OWNER SHALL ARRANGE AND ENSURE THAT ALL NECESSARY CONSTRUCTION DOCUMENTS (UPDATED WITH THE LATEST INFORMATION), APPROVED SHOP DRAWINGS, LATEST SKECTHES AND ANY OTHER TYPE OF CORRESPONDENCE WHICH MAY AFFECT THE INSPECTIONS BE FURNISHED TO SPECIAL INSPECTOR IN A TIMELY MANNER.
4. THE OWNER SHALL ENSURE THAT THE CONTRACTOR PROVIDES SHOP DRAWINGS FOR ALL PRECAST STRUCTURAL COMPONENTS. THESE SHOP DRAWINGS MUST BE DESIGNED, SIGNED AND SEALED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER AND HAVE BEEN REVIEWED AND STAMPED BY THE ENGINEER OF RECORD.

IV. THRESHOLD (SPECIAL) INSPECTOR RESPONSIBILITY

1. PRIOR TO STARTING WITH THEIR WORK, THE SPECIAL INSPECTOR AND THEIR AUTHORIZED REPRESENTATIVE, IF APPLICABLE, SHALL ATTEND A PRE-CONSTRUCTION MEETING AT THE OFFICE OF THE STRUCTURAL ENGINEER OF RECORD FOR THE PURPOSE OF BECOMING FAMILIAR WITH THE SPECIFIC STRUCTURAL COMPONENTS AND SYSTEM WHICH THEY WILL BE RESPONSIBLE FOR INSPECTING.
2. THE SPECIAL INSPECTOR SHALL INSPECT ALL STRUCTURAL SYSTEMS NOTED BELOW AND IN COMPLIANCE WITH THOSE LISTED UNDER THE "GENERAL" HEADING.
3. THE SPECIAL INSPECTOR SHALL VISIT THE SITE AT SUCH FREQUENCY TO SATISFY THEMSELVLES THAT THEIR REPRESENTATIVE'S INSPECTIONS COMPLY WITH THIS PLAN.
4. THE SPECIAL INSPECTOR SHALL DEDICATE THEIR ENTIRE TIME ON-SITE TO THE REQUIREMENTS OF THIS PLAN AND SHALL NOT PERFORM OTHER WORK, SUCH AS MATERIAL TESTING.

V. REPORTING

1. THE SPECIAL INSPECTOR SHALL RECORD PROGRESS, WORKING CONDITIONS, OBSERVATIONS, TESTING, DEVIATIONS FROM THE CONTRACT DOCUMENTS, AND ANY REQUIRED CORRECTIVE ACTION. THEY SHALL RETAIN THE RECORDS FOR A MINIMUM OF 7 YEARS AFTER COMPLETION OF THE PROJECT.
2. THE SPECIAL INSPECTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTOR IN PERSON, AND THE ARCHITECT AND STRUCTURAL ENGINEER BY TELEPHONE, OF MATERIALS, TESTS, EQUIPMENT, WORKMANSHIP OR CONSTRUCTION THAT:
   A. DOES NOT CONFORM TO THE CONTRACT DOCUMENTS, OR
   B. IS NOT INSPECTED OR TESTED AND CANNOT BE INSPECTED OR TESTED IN PLACE.

   THE SPECIAL INSPECTOR SHALL THEN IMMEDIATELY ISSUE THOSE EXCEPTIONS IN WRITING TO THOSE LISTED ABOVE AND ATTACH A COPY TO THE DAILY INSPECTION REPORT.
3. THE SPECIAL INSPECTOR SHALL KEEP AN EXCEPTIONS FILE AND REVIEW IT ON A DAILY BASIS, UPDATING AS EXCEPTIONS ARE RECTIFIED. IF ANY EXCEPTIONS ARE NOT RESOLVED IN A TIMELY MANNER, THE SPECIAL INSPECTOR SHALL ISSUE A NON COMPLIANCE NOTICE TO THE CONTRACTOR AND SHALL COPY THE ENFORCING AGENCY, OWNER'S REPRESENTATIVE, ARCHITECT AND STRUCTURAL ENGINEER.
4. AFTER EACH INSPECTION, THE INSPECTOR SHALL WRITE AND SIGN AN INSPECTION REPORT. THE REPORT SHALL INCLUDE THE FOLLOWING:
   A. THE NAME AND LOCATION OF PROJECT; NAME OF INSPECTOR; PERMIT NUMBER; DATE; WORKING CONDITIONS, INCLUDING WEATHER AND TEMPERATURE; AND TYPE AND LOCATION OF WORK BEING PERFORMED.
   B. DETAILS OF EACH INSPECTION, INCLUDING THE PRESENCE AND ACTIVITIES OF THE TESTING AGENCY.
   C. NOTE DEFICIENCIES IN THE WORK AND ANY UNUSUAL CIRCUMSTANCES AFFECTING THE PERFORMANCE OF WORK, INCLUDING CHANGES IN MATERIALS OR WORK SEQUENCE. PLACE EMPHASIS ON RECURRING DEFICIENCIES.
   D. IDENTIFY CORRECTIONS TO DEFICIENCIES LISTED IN PREVIOUS REPORTS.

   SINCE THE SPECIAL INSPECTOR DOES NOT CERTIFY THAT THE CONTRACT DOCUMENTS ARE IN COMPLIANCE WITH THE GOVERNING CODES, ALL STATEMENTS ISSUED SHALL REFER TO WHETHER OR NOT COMPLETED WORK IS IN SUBSTANTIAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.
1. THE REPORT SHALL ALSO COMMENT ON THE FOLLOWING, WHEN APPLICABLE:
   A. TEST REPORTS THAT DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
   B. THE GEOTECHNICAL ENGINEER'S INSPECTION REPORTS.
   C. SHORING AND RE SHORING ENGINEER'S INSPECTION REPORTS.
   D. CHANGES MADE IN THE FIELD.
2. THE REPORT SHALL ALSO INCLUDE PHOTOGRAPHS, WHEN APPROPRIATE.
7. THE SPECIAL INSPECTOR SHALL SUBMIT THE REPORTS TO THE ENFORCING AGENCY, OWNER'S REPRESENTATIVE, ARCHITECT AND STRUCTURAL ENGINEER UNDER A SIGNED AND SEALED COVER LETTER ON A WEEKLY BASIS OR AS DIRECTED BY THE ENFORCING AGENCY.
8. THE INSPECTOR SHALL POST AT THE JOBSITE A LOG SUMMARIZING ALL INSPECTIONS. THE HEADER SHALL CONTAIN, AS A MINIMUM, THE PROJECT NAME AND LOCATION; PERMIT NUMBER; AND THE NAME OF THE SPECIAL INSPECTOR, OWNER, AND CONTRACTOR. THE INSPECTOR SHALL WRITE AN ENTRY AFTER EACH INSPECTION THAT INCLUDES THE DATE, CONSTRUCTION PHASE, WORK DESCRIPTION, COMMENTS, HIS SIGNATURE, AND WHETHER THE WORK INSPECTED IS APPROVED OR REJECTED.
9. UPON COMPLETION OF THE BUILDING AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE SPECIAL INSPECTOR SHALL ISSUE A SIGNED AND SEALED STATEMENT ATTESTING THAT THE PART OF THE PROJECT UNDER THEIR INSPECTION RESPONSIBILITIES HAS BEEN CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 553.79(7)A OF THE FLORIDA STATUTES AND SHALL BE SUBMITTED TO THE ENFORCING AGENCY, OWNER, ARCHITECT AND STRUCTURAL ENGINEER.

VI. SOIL/FOUNDATION PREPARATION

1. THE GEOTECHNICAL ENGINEER OF RECORD FOR THE PROJECT SHALL BE RETAINED BY OWNER TO MONITOR THE SITE PREPARATION ACTIVITIES. FOUNDATION BEARING SURFACES AND PILE FOUNDATION ELEMENTS.
2. THE GEOTECHNICAL ENGINEER SHALL PROVIDE THE THRESHOLD BUILDING INSPECTOR WITH DAILY REPORTS AND A SUMMARY REPORT INDICATING THAT THE FOUNDATION BEARING SURFACE IS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECNICAL REPORT, SUCH THAT THE FOUNDATION FOR THE PROJECT WILL FUNCTION AS INTENDED.
3. THE INDEPENDENT TESTING AGENCY RETAINED BY THE OWNER SHALL MONITOR THE BACKFILL AND COMPACTION OPERATIONS AND PROVIDE THE THRESHOLD BUILDING INSPECTOR WITH REPORTS DOCUMENTING THAT THE OPERATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND THE CONTRACT DOCUMENTS.
4. ALL INSPECTION AND TESTING REPORTS PROVIDED TO THRESHOLD BUILDING INSPECTOR SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

VII. SHALLOW FOUNDATIONS

1. REVIEW SIZE AND CONFIGURATION OF FOUNDATION FOR COMPLIANCE WITH CONTRACT DOCUMENTS.
2. REVIEW SIZE, PLACEMENT, AND CLEARANCES OF REINFORCEMENT FOR COMPLIANCE WITH CONTRACT DOCUMENTS.
3. REVIEW DOWEL REINFORCING AND DOWEL LENGTHS SUCH THAT LAP SPLICES WILL BE IN COMPLIANCE WITH CONTRACT DOCUMENTS.
4. VERIFY THAT REINFORCING IS SUPPORTED AND TIED SUCH THAT IT WILL NOT BE DISPLACED DURING THE CONCRETE POUR.

VIII. DEEP FOUNDATIONS

1. THE GEOTECHNICAL ENGINEER OF RECORD SHALL PROVIDE DETAILED RECORDS OF THE INSTALLATION OF EACH PILE AND THE RESULTS OF LOAD TESTS. INFORMATION SHALL INCLUDE: TIP ELEVATION OF EACH PILE REALTIVE TO A PERMANENT REFERENCE, LOCATION OF EACH PILE IN PLAN AND PLUMBNESS OF EACH PILE, AS WELL AS CAPACITY.
2. THE SPECIAL INSPECTOR SHALL REVIEW THE AS-BUILT PILE SURVEY AND CONFIRM THAT THE PILES ARE POSITIONED WITHIN THE SPECIFIED TOLERANCE AND, IF NOT, VERIFY THAT THE STRUCTURAL ENGINEER HAS ACCEPTED THE DEVIATION OR REQUIRED REPAIRS AND THAT THOSE REPAIRS HAVE BEEN COMPLETED.
3. THE SPECIAL INSPECTOR SHALL CONFIRM THAT THE PILES HAVE THE SPECIFIED EMBEDMENT AND STEEL EXTENSION INTO THE PILE CAP OR GRADE BEAM, AND HAVE THE SPECIFIED EDGE DISTANCE TO THE PILE CAP OR GRADE BEAM.
4. MONITOR SERVICES OF THE INDEPENDENT TESTING LABORATORY RETAINED BY OWNER TO ASSURE GROUT SAMPLES ARE TAKEN PER CODE AND SPECIFICATIONS.

IX. STRUCTURAL CAST-IN- PLACE CONCRETE

1. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO THE PLACEMENT OF ANY STRUCTURAL CONCRETE.
2. INSPECT SHORING, RESHORING AND FORMWORK AS FOLLOWS:
   A. VERIFY THAT THE DELEGATED SHORING AND RE-SHORING ENGINEER HAS CONFIRMED THAT THE SHORING AND RE-SHORING ARE IN COMPLIANCE WITH THEIR SHOP DRAWINGS (REFER TO THE REQUIREMENT IN THE SPECIAL INSPECTION PLAN SECTION 1.5.F). ADDITIONALLY, THE SPECIAL INSPECTOR SHALL SPOT CHECK THE SHORING AND RE-SHORING FOR CONFORMANCE WITH THE SHORING AND RE-SHORING PLANS SUBMITTED TO THE ENFORCING AGENCY.
   B. SPOT CHECK SHORING AND RE-SHORING LAYOUT, ALIGNMENT AND MATERIALS.
   C. CONFIRM THAT THE TIMING OF SHORING, RE-SHORING, AND FORMWORK PROCEDURES AND REMOVAL COMPLY WITH THE CONTRACT DOCUMENTS AND THE SHORING AND RE-SHORING DRAWINGS. WHERE APPROPRIATE, VERIFY THAT CONCRETE TEST CYLINDER STRENGTH IS ADEQUATE PRIOR TO FORM REMOVAL.
3. VERIFY THAT SLAB THICKNESS IS MAINTAINED AT SLAB DEPRESSIONS AND STEPS.
4. INSPECT REINFORCING STEEL PER THE STRUCTURAL DRAWINGS, SUPPLEMENTED BY THE APPROVED SHOP DRAWINGS, TO VERIFY THE FOLLOWING:
   A. REINFORCING STEEL GRADE, SIZE, QUANTITY, CONFIGURATION AND SPACING.
   B. MINIMUM CLEARANCE REQUIREMENTS FROM CONCRETE SURFACES.
   C. REINFORCING STEEL IS ADEQUATELY SUPPORTED AND TIED TO RESIST SHIFTING DURING CONCRETE POUR AND THAT CONCRETE COVER IS PROPER.
   D. ALL REINFORCEMENT IS ADEQUATELY SUPPORTED AND TIED TO RESIST SHIFTING DURING PLACEMENT.
   E. HOOKED BARS ARE PLACED PROPERLY.
   F. EMBEDMENT LENGTHS, SPLICE LOCATIONS AND LAP SPLICE LENGTHS ARE ACCEPTABLE.
   G. MECHANICAL COUPLERS ARE APPROVED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
   H. PROPER TIE SPACING, PARTICULARLY AT BEAM/COLUMN INTERSECTIONS.
   I. REINFORCING STEEL LAYERS IN SLABS AND WALLS ARE PROPER.
   J. REPORT ALL OPENINGS LARGER THAN 12" AND NOT SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECT/ENGINEER. CHECK PLACEMENT OF ADDITIONAL REINFORCEMENT AROUND OPENINGS. OPENINGS THROUGH BEAMS ARE PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
   K. IN ONE-WAY SLABS, VERIFY THAT TEMPERATURE STEEL IS CORRECT, INCLUDING PROPER LAYERING.
   L. IN TWO-WAY SLABS, VERIFY:
      1. THAT COLUMN STRIP TOP BARS HAVE A UNIFORM SPACING AND ARE NOT BUNDLED TOGETHER.
      2. THAT ADDED TOP BARS ARE PLACED IN THE VICINITY OF THE COLUMN.
      3. THAT TOP AND BOTTOM HOOK BARS HAVE BEEN PLACED AS REQUIRED, ESPECIALLY AT SLAB EDGES.
      4. THE POSITION OF BARS AT SLAB OFFSETS AND DEPRESSIONS.
   M. ALL REBAR SURFACES ARE FREE OF EXCESS RUST OR OTHER COATING THAT MAY AFFECT THE BONDING CAPACITY.
5. VERIFY THAT EXPANSION JOINT MATERIAL, DOVETAIL SLOTS, ANCHORS, EMBEDDED CONDUITS, AND LOAD CARRYING EMBEDDED ITEMS ARE PROPERLY POSITIONED AND SECURED TO RESIST DISPLACEMENT DURING CONCRETE PLACEMENT. RELOCATION OF OR MODIFICATION TO STRUCTURAL ITEMS DUE TO CONFLICT WITH REINFORCING IS PROHIBITED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
6. INSPECT CONSTRUCTION JOINTS AS FOLLOWS:
   A. VERIFY THAT DOWELS, KEYWAYS AND BULKHEADS COMPLY WITH THE CONTRACT DOCUMENTS.
   B. CONFIRM THAT BEAM AND SLAB CONSTRUCTION JOINT LOCATIONS COMPLY WITH THE CONTRACTOR'S CONSTRUCTION JOINT PLAN SUBMITTED TO THE ARCHITECT.
7. VERIFY THAT SAWCUT JOINTS ARE:
   A. PROVIDED ONLY WHERE INDICATED.
   B. THE PROPER DEPTH, SPACING AND LOCATION.
   C. PROVIDED IN THE TIME FRAME INDICATED IN THE CONTRACT DOCUMENTS.
8. CHECK THAT ALL FOREIGN MATERIAL IS REMOVED FROM FORMS OR EXCAVATIONS PRIOR TO CONCRETE PLACEMENT.
9. BE ON SITE AT THE START OF EACH CONCRETE POUR REQUIRING INSPECTION BY THIS PLAN. REMAIN ON SITE FOR A SUFFICIENT TIME TO CONFIRM THAT CONCRETING PRACTICES ARE PROPER AND COMPLY WITH ACI 301, ASTM C94 AND OTHER RECOGNIZED INDUSTRY STANDARDS, INCLUDING THE FOLLOWING:
   A. ALL REINFORCING STEEL CORRECTIONS ARE COMPLETED PRIOR TO CONCRETE PLACEMENT.
   B. THE FIRST CONCRETE TRUCK OF EACH TYPE OF CONCRETE POUR HAS THE PROPER CONCRETE MIX NUMBER AND STRENGTH AND THAT THE BATCH TIME LEAVES SUFFICIENT TIME TO POUR ALL CONCRETE FROM THE TRUCK. SPOT CHECK FUTURE TRUCKS.
   C. THE TESTING AGENCY IS ON SITE FOR EACH TYPE OF CONCRETE POUR TO TEST CONCRETE AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING MIXING TIME, TEMPERATURE, SLUMP, AND AIR CONTENT, AND REPORTS ANY CONCRETE DELIVERED THAT IS NOT AS SPECIFIED. CHECK THAT ADDITION OF WATER TO THE CONCRETE MIX IN THE FIELD COMPLIES WITH THE GUIDELINES IN THE CONTRACT DOCUMENTS.
   D. CONCRETE IS BEING CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY RECOGNIZED INDUSTRY STANDARDS. CONCRETE IS BEING PLACED CONTINUOUSLY, OR IN A MANNER TO AVOID PLACING CONCRETE AGAINST HARDENED CONCRETE, RESULTING IN THE FORMATION OF SEAMS OR PLANES OF WEAKNESS.
   E. CONCRETE IS BEING CONSOLIDATED AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS, ELIMINATING AIR OR STONE POCKETS THAT MAY CAUSE HONEYCOMBING, PITTING OR PLANES OF WEAKNESS.
   F. SPOT CHECK THAT CURING PROCEDURES COMPLY WITH THE CONTRACT DOCUMENTS, ACI 308, "STANDARD PRACTICE FOR CURING CONCRETE" AND OTHER RECOGNIZED INDUSTRY STANDARDS.
   G. AFTER THE FORMWORK REMOVAL, SPOT CHECK CONCRETE SURFACES FOR HONEYCOMBING AND VOIDS.
10. INSPECT EXPANSION ANCHORS AND CHEMICAL ADHESIVE FOR ANCHORING REINFORCING STEEL AND THREADED RODS USED TO SUPPORT WORK DESCRIBED IN THIS PLAN AS FOLLOWS:
    A. VERIFY HOLE DIAMETER, DEPTH, LOCATION, SPACING, AND EDGE DISTANCE AND CONFIRM THAT HOLE HAS BEEN THOROUGHLY CLEANED AS REQUIRED BY MANUFACTURER.
    B. VERIFY THAT EXPANSION ANCHORS ARE PROPERLY TIGHTENED.
    C. VERIFY THAT THE EPOXY TYPE IS PROPER FOR THE APPLICATION, SUCH AS PASTE FOR HORIZONTAL HOLES. VERIFY THAT EPOXY MIXING AND INSTALLATION COMPLIES WITH MANUFACTURER'S REQUIREMENTS.
11. POST TENSIONING:
    A. INSPECT CONCRETE WITH POST-TENSION TENDONS AS PREVIOUSLY DESCRIBED.
    B. VERIFY THE FOLLOWING WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS:
       1. TENDON SIZE, QUANTITY, LAYOUT AND SPACING.
       2. TENDON PROFILE AND SPACING OF TENDON SUPPORT BARS.
       3. LOCATION, SIZE, TYPE, AND PLACEMENT OF ALL END AND INTERMEDIATE ANCHORAGES AND INSERTS REQUIRED FOR STRESSING.
       4. HORIZONTAL AND VERTICAL TENDON PROFILES AROUND OPENINGS.
       5. BURSTING STEEL AT ANCHORAGE ENDS AND CHANGES IN DIRECTION.
       6. TENDON SHEATHING.
    C. CONFIRM THAT ELEMENTS DESCRIBED ABOVE ARE NOT SHIFTING DURING CONCRETE PLACEMENT.
    D. OBSERVE STRESSING OPERATION AND CONFIRM PROPER SEQUENCE. VERIFY THAT STRESSING AND ELONGATION RECORDS, KEPT BY THE P.T. INSTALLER, ARE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.
    E. VERIFY THAT TENDONS ARE NOT CUT UNTIL THE STRUCTURAL ENGINEER HAS REVIEWED THE ELONGATION RECORDS AND THAT THE TENDON CUTTING PROCEDURE COMPLIES WITH THE CONTRACT DOCUMENTS.
    F. THE INPSECTION OF TENDON TAIL LENGTH, GREASE CAP INSTALLATION, GREASE APPLICATION, AND GROUT PLUGS IS SPECIFICALLY EXCLUDED FROM THE SPECIAL INSPECTOR'S SCOPE OF WORK. INSPECTION OF THESE ITEMS CAN BE PROVIDED UNDER SEPARATE AGREEMENT.

1. PRECAST/PRESTRESSED COMPOSITE CONCRETE

1. COMPLY WITH REQUIREMENTS OF "STRUCTURAL CAST-IN-PLACE CONCRETE", ABOVE.
2. USE UNIT MARK NUMBER TO VERIFY THAT UNITS ARE LOCATED WHERE SHOWN ON THE SHOP DRAWINGS.
3. SPOT CHECK UNITS FOR DAMAGE DURING SHIPPING OR CRACKS.
4. REINFORCING CAST INTO PRECAST IS DESIGNED AND DETAILED BY THE PRECASTER. VERIFY STEEL QUANTITIES AND PLACEMENT USING THE SHOP DRAWINGS AS FOLLOWS:
5. VERIFY STRAND QUANTITY SHOWN ON THE SHOP DRAWINGS BY COUNTING THE NUMBER OF STRANDS AT THE END OF EACH BEAM AND JOIST. WHILE SOME UNITS MAY CONTAIN MORE STRANDS THAN SPECIFIED DUE TO PRODUCTION REQUIREMENTS, UNITS CONTAINING FEWER STRANDS THAN SPECIFIED ARE UNACCEPTABLE.
6. VERIFY PRECAST SOFFIT BEAM SHEAR REINFORCING SIZE, GRADE, SPACING, AND HEIGHT. SPACING MAY BE WITHIN +/- 2" PROVIDED THE AVERAGE SPACING WITHIN A DISTANCE OF 1/2 THE DEPTH OF THE BEAM DOES NOT EXCEED THE SPECIFIED SPACING BY MORE THAN 1/2". FOR EXAMPLE, IF SPECIFIED SHEAR REINFORCING SPACING IS 4" O.C., A SPACING OF 2", 6" AND 2" WOULD BE ACCEPTABLE. THE HEIGHT TOLERANCE + 1/2" AND -1/2" FOR BEAMS LESS THAN 24 INCHES DEEP AND -1" FOR DEEPER BEAMS.
7. VERIFY THAT JOIST SHEAR STEEL PROTRUDES ABOVE THE TOP OF JOIST AND IS NOT DAMAGED.
8. CHECK CONNECTIONS FOR EMBEDDED ITEMS REQUIRED IN STRUCTURE. PAY PARTICULAR ATTENTION TO FIELD-PLACED REINFORCEMENT INSTALLED AT CAZALY HANGER SEATS. VERIFY THAT REQUIRED REINFORCING EXTENDS FROM ENDS OF PRECAST MEMBERS. REFER TO DETAILS ON STRUCTURAL DRAWINGS AND ON SHOP DRAWINGS.
9. VERIFY THAT SOFFIT BEAM SHEAR FRICTION REINFORCING ARE IN PLACE AND ARE PLACED DIRECTLY ON TOP OF THE SOFFIT, NOT CHAIRED. VERIFY MINIMUM BEARING LENGTH OF JOISTS AND CAZALY HANGERS.
10. CHECK THAT MEMBER LENGTH, DEPTH, WIDTH, CAMBER AND SIDE BOW ARE WITHIN ALLOWABLE TOLERANCES.

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

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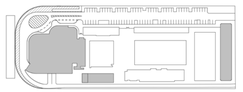

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PROJECT NORTH:

DRAWING TITLE
THREESOLD INSPECTION PLAN

PROJECT NUMBER: 010326.000

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SHEET
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XI. STRUCTURAL PRECAST CONCRETE:

1. THE SPECIAL INSPECTOR SHALL INSPECT ALL PRECAST MEMBERS AND CONNECTIONS USING BOTH THE CONTRACT DOCUMENTS AND THE SHOP DRAWINGS.
2. INSPECT SETTING OF ANCHOR BOLTS, EMBEDS AND OTHER MISCELLANEOUS STRUCTURAL ITEMS FOR SIZE, QUANTITY AND FINISH.
3. CHECK STEEL AS RECEIVED FOR POSSIBLE DAMAGE DURING SHIPPING.
4. VERIFY THAT PRECAST UNITS ARE PROPERLY LOCATED IN THE STRUCTURE BY CONFIRMING THAT THE MARK NUMBER MATCHES THAT SHOWN ON THE SHOP DRWINGS. CHECK THAT ERECTION SEQUENCE AND ALL PERMANENT BRACING AND SUPPORTS ARE IN ACCORDANCE WITH APPROVED SUBMITTALS.
5. CONFIRM THAT MEMBER LENGTH, DEPTH, WIDTH, CAMBER AND SIDE BOW ARE WITHIN ALLOWABLE TOLERANCES.
6. VERIFY THAT BEARING CONDITIONS COMPLY WITH SPECIFIED REQUIREMENTS.
7. INSPECT ALL FIELD CONNECTIONS AND VERIFY CONNECTION MATERIAL, SIZES AND CONFIGURATIONS FOR EMBEDS AND CONNECTORS.
   a. VISUALLY EXAMINE ALL FIELD WELDS AND SPOT CHECK ALL SHOP WELDS FOR TYPE, SIZE, LENGTH AND QUALITY. VERIFY THAT SPECIFIED TESTING IS PERFORMED BY THE TESTING AGENCY. VERIFY THAT WELDS ARE CLEAN AND FREE FROM SLAG AND THAT RUST PROTECTION, IF REQUIRED, HAS BEEN APPLIED AS PER SPECIFICATIONS. VERIFY THAT ALL WELDERS ARE AWS CERTIFIED.
   b. CHECK ALL COLUMN BASE CONNECTIONS AND ALL GROUTED CONNECTIONS. SPOT CHECK GROUT INSTALLATION PROCEDURES.
   c. VERIFY BOLT TYPE, SIZE AND QUANTITY IN ALL BOLTED CONNECTIONS. CHECK THAT BOLTS ARE CLEAN AND LUBRICATED, HAVE PROPER WASHERS, AND CONFORM TO THE SPECIFICATIONS. CHECK THAT BOLT HOLES ARE THE SPECIFIED TYPE AND SIZE. VISUALLY VERIFY PROPER DEGREE OF BOLT TIGHTENING.
   d. INSPECT ALL THREADED COUPLERS.
   e. VERIFY BEARING PAD MATERIAL, SIZE, POSITION AND FLUSHNESS WITH ADJACENT MATERIALS.

XII. PRECAST CLADDING

1. THE SPECIAL INSPECTOR SHALL INSPECT ALL PRECAST CLADDING CONNECTIONS USING BOTH THE CONTRACT DOCUMENTS AND THE SHOP DRAWINGS.
2. INSPECT ALL CONNECTIONS AND VERIFY COMPLIANCE PRIOR TO CONCEALMENT.
   A. INSPECT SETTING OF ANCHOR BOLTS, EMBEDS AND OTHER MISCELLANEOUS STRUCTURAL ITEMS FOR SIZE, QUANTITY AND FINISH.
   B. CHECK THAT ERECTION SEQUENCE AND ALL PERMANENT BRACING AND SUPPORTS ARE IN ACCORDANCE WITH SUBMITTALS.
   C. VERIFY THAT BEARING CONDITIONS COMPLY WITH SPECIFIED REQUIREMENTS.
   D. VERIFY CONNECTION MATERIAL SIZES AND CONFIGURATIONS.
      a. VISUALLY EXAMINE ALL WELDS FOR TYPE, SIZE, LENGTH AND QUALITY. VERIFY THAT SPECIFIED TESTING IS PERFORMED BY THE TESTING AGENCY. VERIFY THAT WELDS ARE CLEAN AND FREE FROM SLAG AND THAT RUST PROTECTION, IF REQUIRED, HAS BEEN APPLIED AS PER SPECIFICATIONS. VERIFY THAT ALL WELDERS ARE AWS CERTIFIED.
      b. INSPECT EXPANSION ANCHORS AND CHEMICAL ADHESIVE FOR ANCHORING THREADED RODS AS DESCRIBED IN CAST-IN-PLACE CONCRETE.

XIII. **STEEL FRAMING AND MEMBERS**

1. INSPECT ALL STEEL MEMBERS AND FRAMING AS REQUIRED BY THE CONTRACT DOCUMENTS. USE BOTH THE CONTRACT DOCUMENTS AND THE SHOP DRAWINGS FOR ALL INSPECTIONS. VERIFY THAT ALL FIELD WELDERS ARE AWS CERTIFIED FOR THE TYPE OF WELDS BEING MADE.
2. FIELD INSPECTION OF STEEL CONSTRUCTION: PROVIDE ALL INSPECTIONS REQUIRED BY THE CONTRACT DOCUMENTS. COMPLETE ALL INSPECTIONS AND VERIFY COMPLIANCE PRIOR TO CONCRETING OR CONCEALMENT.
   A. CHECK STEEL AS RECEIVED FOR POSSIBLE DAMAGE DURING SHIPPING.
   B. CHECK STRUCTURAL STEEL MEMBER SIZES AND GRADES.
   C. SPOT CHECK MEMBER STRAIGHTNESS, FINISH, AND CAMBER. CONFIRM THAT PAINT IS ONLY APPLIED ON APPROPRIATE SURFACES.
   D. INSPECT SETTING OF ANCHOR BOLTS, EMBEDS AND OTHER MISCELLANEOUS STRUCTURAL ITEMS FOR SIZE, QUANTITY AND FINISH. CHECK THE INSTALLATION OF COLUMN BASE PLATES FOR PROPER LEVELING, GROUT TYPE AND GROUT APPLICATION.
   E. INSPECT ALL FIELD CONNECTIONS AND SPOT CHECK SHOP CONNECTIONS. VERIFY CONNECTION MATERIAL SIZES, CONFIGURATIONS, AND FIT-UP.
      1. VISUALLY EXAMINE ALL FIELD WELDS AND SPOT CHECK ALL SHOP WELDS FOR TYPE, SIZE, LENGTH, AND QUALITY. VERIFY THAT SPECIFIED TESTING IS PERFORMED BY THE TESTING AGENCY. VERIFY THAT WELDS ARE CLEAN AND FREE FROM SLAG AND THAT RUST PROTECTION HAS BEEN APPLIED AS PER SPECIFICATIONS.
      2. VERIFY THE TYPE, SIZE AND QUANTITY OF BOLTS IN ALL BOLTED CONNECTIONS. CHECK THAT BOLTS ARE CLEAN AND LUBRICATED, HAVE PROPER WASHERS, AND CONFORM TO THE SPECIFICATIONS. CHECK THAT BOLT HOLES ARE THE SPECIFIED TYPE AND SIZE. SPOT CHECK THE BOLT TIGHTENING SEQUENCE. VISUALLY VERIFY PROPER DEGREE OF BOLT TIGHTENING, PARTICULARLY OF ALL SLIP-CRITICAL BOLTS. CHECK 10% OF LOAD INDICATOR WASHERS WITH A FEELER GAUGE.
   F. CHECK HEADED STUD ANCHORS FOR SIZE, LENGTH, SPACING AND WELDING AS REQUIRED BY THE CONTRACT DOCUMENTS. VERIFY THAT SHEAR CONNECTORS ARE TESTED BY TESTING LABORATORY.
3. CHECK ALL STEEL DECKS PER SDI SPECIFICATIONS AND AS FOLLOWS:
   A. DECK TYPE, SIZE, GAGE, FINISH, ACCESSORIES AND REINFORCEMENT AROUND OPENINGS.
   B. SPACING AND TYPE OF ALL CONNECTIONS.
   C. WELDING PROCEDURES.
   D. WELD SIZE, SHAPE, QUALITY, RUST PROTECTIONS AND WELD WASHERS, WHERE APPLICABLE.
   E. SCREW SIZE, TYPE AND FINISH AND OTHER CONNECTION TO SUPPORTS.

1. **MASONRY**
   1. INSPECT ALL REINFORCED MASONRY PER ACI 530, ACI 530.1 AND AS FOLLOWS:
2. SPOT CHECK THAT MATERIALS ARE PROPERLY STORED.
3. WORKMANSHIP.
4. UNIT SIZE, STRENGTH AND WEIGHT.
5. MORTAR AND GROUT TYPE, MIXING AND PLACEMENT.
6. PLACEMENT OF REINFORCING STEEL AND JOINT REINFORCING, INSERTS, ANCHORS AND OTHER STRUCTURAL ASPECTS.
7. CHECK CLEANOUT AREAS TO CONFIRM THAT CELLS TO BE REINFORCED ARE CLEAN AND FREE OF ALL FOREIGN MATERIAL AND THAT VERTICAL BAR IS TIED TO DOWEL.
8. CONTROL JOINT CONSTRUCTION.
9. DURING GROUTING, VERIFY THAT ALL CELLS ARE FILLED SOLID AND THAT GROUT IS CONSOLIDATED AS REQUIRED BY THE CONTRACT DOCUMENTS. IF IN DOUBT AFTER COMPLETION, CHECK USING A HAMMER.
10. CHECK TIE BEAM AND TIE COLUMN SIZE, SPACING AND REINFORCING.
11. CHECK CONNECTION OF SIDE OR TOP OF WALL TO SUPPORTING ELEMENTS.

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

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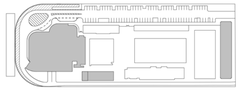

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DEVELOPMENT LENGTH SCHEDULE (INCHES)

SEE NOTE 5

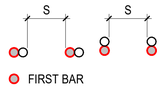
BAR SIZE	MINIMUM BAR SPACING (INCHES) [MAX(1",db) + db] NOTE 2	TENSION										COMPRESSION									
		NOTED AS Ld ON DRAWINGS										NOTED AS Ldh ON DRAWINGS										NOTED AS Ldc ON DRAWINGS									
		f'c (PSI)										f'c (PSI)										f'c (PSI)									
		3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000	3000	4000	5000	6000	7000	8000	9000	10,000	11,000	12,000
#4	1.500	22	19	17	16	15	14	13	12	12	12	11	10	9	8	8	7	7	6	6	6	11	10	9	9	9	9	9	9	9	9
#5	1.625	28	24	22	20	18	17	16	15	15	15	14	12	11	10	9	9	8	8	8	8	14	12	12	12	12	12	12	12	12	12
#6	1.750	33	29	26	24	22	21	19	18	18	18	17	15	13	12	11	11	10	9	9	9	17	15	14	14	14	14	14	14	14	14
#7	1.875	48	42	38	34	32	30	28	27	27	27	20	17	15	14	13	12	12	11	11	11	20	17	16	16	16	16	16	16	16	16
#8	2.000	55	48	43	39	36	34	32	30	30	30	22	19	17	16	15	14	13	12	12	12	22	19	18	18	18	18	18	18	18	18
#9	2.375	62	54	48	44	41	38	36	34	34	34	25	22	20	18	17	16	15	14	14	14	25	22	21	21	21	21	21	21	21	21
#10	2.625	70	61	54	50	46	43	41	39	39	39	28	25	22	20	19	18	17	16	16	16	28	25	23	23	23	23	23	23	23	23
#11	2.875	78	67	60	55	51	48	45	43	43	43	31	27	24	22	21	19	18	17	17	17	31	27	26	26	26	26	26	26	26	26

DEVELOPMENT LENGTH SCHEDULE NOTES:

1. WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH, MULTIPLY Ld BY 1.3.
2. WHERE STIRRUPS OR TIES ARE NOT PRESENT THROUGHOUT Ld, MINIMUM BAR SPACING MUST BE INCREASED TO [MAX(1", db) + 2db] FOR SCHEDULED VALUES TO BE APPLICABLE.

LAP SPLICE NOTES:

1. TABULATED VALUES ARE PER ACI 318-11 REQUIREMENTS FOR NORMALWEIGHT CONCRETE. THE VALUES ON THIS SHEET DO NOT APPLY TO LIGHTWEIGHT CONCRETE
2. SEE TYPICAL DETAILS FOR CLEAR COVER
3. MINIMUM BAR SPACING DIAGRAM - "S"



FIRST BAR
SECOND BAR PLACED OR SPLICE BAR

4. WHERE ACTUAL CONDITIONS DIFFER FROM THE CLEAR COVER SHOWN ON THE TYPICAL DETAILS OR DIFFER FROM PROVIDED SCHEDULED BAR SIZE MINIMUM SPACING AND/OR f'c, LENGTHS SHALL BE ADJUSTED ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
5. TABULATED VALUES ARE FOR NON-EPOXY COATED GRADE 60 REINFORCEMENT IN NORMALWEIGHT CONCRETE

   FOR EPOXY COATED REINFORCEMENT:
   MULTIPLY Ld BY 1.5
   MULTIPLY Ldh BY 1.2
   Ldc IS NOT AFFECTED
   MULTIPLY LTS BY 1.3 FOR "TOP BARS"
   MULTIPLY LTS BY 1.5 FOR ALL OTHER REINFORCEMENT

   FOR GRADE 75 REINFORCEMENT:
   MULTIPLY Ld, Ldh, Ldc, AND LTS BY 1.25
   MULTIPLY Lcs BY 1.45

6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, THE TENSION LAP SPLICE LENGTH (LTS) SHALL BE THE LARGER OF THE TENSION DEVELOPMENT LENGTH (Ld) OF THE LARGER BAR AND THE TENSION LAP SPLICE LENGTH OF THE SMALLER BAR.
7. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN COMPRESSION, THE COMPRESSION LAP LENGTH (LCS) SHALL BE THE LARGER OF THE COMPRESSION DEVELOPMENT LENGTH (Ldc) OF THE LARGER BAR OR THE COMPRESSION LAP SPLICE LENGTH OF THE SMALLER BAR.
8. "TOP BARS" ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE
   "OTHER BARS" ARE ALL BARS FOR WHICH THIS DOES NOT APPLY

1 LAP SPLICE SCHEDULES

NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

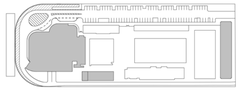
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△ DESCRIPTION DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
GENERAL LAP SPLICE SCHEDULES I

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S0-100

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TT Project Number: K20063.00
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CAISSON REINFORCEMENT
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)			COMPRESSION (LCS)
		f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	
#5	4.375	19	17	16	19
#6	4.250	23	20	19	23
#7	4.125	35	31	29	27
#8	4.000	47	42	38	30
#9	3.875	61	55	50	34
#10	3.750	79	71	64	39
#11	3.625	87	78	71	43

SLAB/SLAB-ON-GRADE REINFORCEMENT
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)					
		f'c = 3 KSI	f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI
#4	5.500	22	19	17	16	14	14
#5	5.375	32	28	25	23	21	20
#6	5.250	43	37	34	31	28	27
#7	5.125	69	60	54	49	46	43
#8	5.000	86	74	67	61	56	53

COLUMN REINFORCEMENT
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)									COMPRESSION (LCS)
		f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	
#5	2.125	28	25	23	21	20	19	18	18	18	19
#6	2.250	37	34	31	28	27	25	24	24	24	23
#7	2.375	54	49	45	41	39	36	35	35	35	27
#8	2.500	62	56	51	47	44	42	39	39	39	30
#9	2.875	70	63	57	53	50	47	44	44	44	34
#10	3.250	79	71	64	60	56	53	50	50	50	39
#11	3.625	87	78	71	66	62	58	55	55	55	43

GRADE BEAM/BEAM REINFORCEMENT
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)											
		f'c = 4 KSI		f'c = 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8 KSI		f'c = 9 KSI		f'c = 10 KSI	
		TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#4	1.500	33	25	29	23	27	21	25	19	23	18	22	17	21	16
#5	1.625	41	31	36	28	33	26	31	24	29	22	27	21	26	20
#6	1.750	49	37	44	34	40	31	37	28	35	27	33	25	31	24
#7	1.875	71	54	63	49	58	45	54	41	50	39	47	36	45	35
#8	2.000	81	62	72	56	66	51	61	47	57	44	54	42	51	39
#9	2.375	91	70	81	63	74	57	69	53	64	50	61	47	58	44
#10	2.625	102	79	92	71	84	64	77	60	72	56	68	53	65	50
#11	2.875	114	87	102	78	93	71	86	66	80	62	76	58	72	55

FOOTING/MAT REINFORCEMENT
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION LAP (LTS)											
		f'c = 4 KSI		f'c = 5 KSI		f'c = 6 KSI		f'c = 7 KSI		f'c = 8 KSI		f'c = 9 KSI		f'c = 10 KSI	
		TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#4	5.500	20	15	18	14	16	13	15	12	14	12	13	12	13	12
#5	5.375	25	19	22	17	20	16	19	14	18	14	17	13	16	12
#6	5.250	29	23	26	20	24	19	22	17	21	16	20	15	19	15
#7	5.125	43	33	38	29	35	27	32	25	30	23	29	22	27	21
#8	5.000	49	37	44	34	40	31	37	28	35	27	33	25	31	24
#9	4.875	63	49	57	44	52	40	48	37	45	35	42	33	40	31
#10	4.750	82	63	74	57	67	52	62	48	58	45	55	42	52	40
#11	4.625	104	80	93	72	85	65	79	61	74	57	69	54	66	51

SHEAR WALL REINFORCEMENT - VERTICAL BARS
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)									COMPRESSION (LCS)
		f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	
#4	5.500	15	14	13	12	12	12	12	12	12	15
#5	5.375	19	17	16	14	14	13	12	12	12	19
#6	5.250	26	23	21	20	19	18	17	17	17	23
#7	5.125	42	38	35	32	30	28	27	27	27	27
#8	5.000	53	48	44	40	38	36	34	34	34	30
#9	4.875	65	59	53	50	46	44	42	42	42	34
#10	4.750	80	71	65	60	56	53	51	51	51	39
#11	4.625	95	85	77	72	67	63	60	60	60	43

SHEAR WALL REINFORCEMENT - HORIZONTAL BARS
LAP SPLICE LENGTH SCHEDULE (INCHES)

SEE NOTE 5

BAR SIZE	MINIMUM BAR SPACING (INCHES)	TENSION (LTS)									COMPRESSION (LCS)
		f'c = 4 KSI	f'c = 5 KSI	f'c = 6 KSI	f'c = 7 KSI	f'c = 8 KSI	f'c = 9 KSI	f'c = 10 KSI	f'c = 11 KSI	f'c = 12 KSI	
#4	5.500	25	22	20	19	18	17	16	16	16	15
#5	5.375	36	32	29	27	26	24	23	23	23	19
#6	5.250	49	44	40	37	35	33	31	31	31	23
#7	5.125	78	70	64	59	55	52	50	50	50	27
#8	5.000	97	87	79	73	69	65	61	61	61	30
#9	4.875	117	105	96	89	83	78	74	74	74	34
#10	4.750	141	126	115	106	100	94	89	89	89	39
#11	4.625	165	147	135	125	117	110	104	104	104	43

1 LAP SPLICE SCHEDULES

SCALE: NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

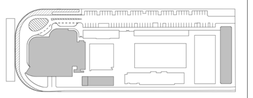
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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SEAL & SIGNATURE
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PROJECT NORTH:

DRAWING TITLE
GENERAL LAP SPLICE SCHEDULES II

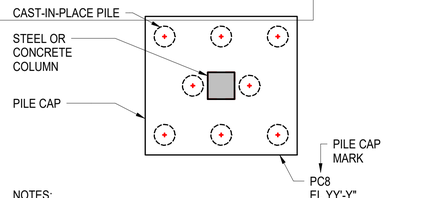
PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S0-101

8/22/2022 6:54:52 PM • Sheet Number: S0-102
TT Project Number: K20063.00

CAST-IN-PLACE PILE AND PILE CAP LEGEND

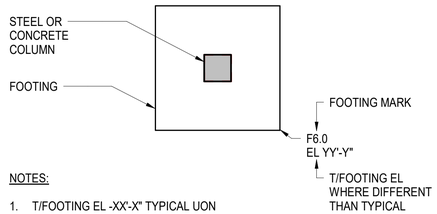


NOTES:

1. T/PILE CAP EL -XX'-X" TYPICAL UON
2. SEE TYPICAL PILE CAP SCHEDULE AND DETAILS
3. SEE PLAN FOR PILE CAP ORIENTATION

1 CAST-IN-PLACE PILE AND PILE CAP LEGEND
NOT TO SCALE

ISOLATED FOOTING LEGEND

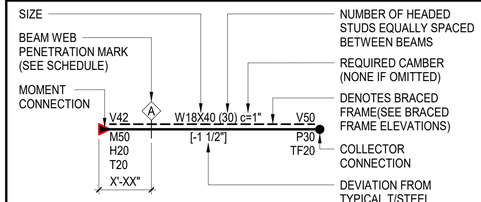


NOTES:

1. T/FOOTING EL -XX'-X" TYPICAL UON
2. SEE TYPICAL ISOLATED FOOTING SCHEDULE AND DETAILS
3. SEE PLAN FOR FOOTING ORIENTATION

2 ISOLATED FOOTING LEGEND
NOT TO SCALE

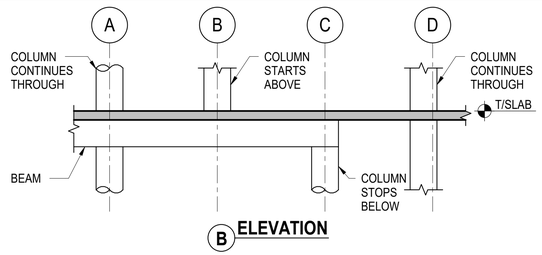
STEEL BEAM LEGEND



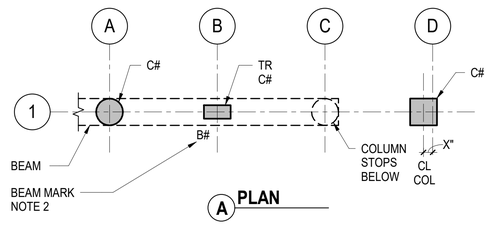
V INDICATES FACTORED VERTICAL SHEAR IN KIPS
M INDICATES FACTORED END MOMENT IN KIP-FEET
H INDICATES FACTORED HORIZONTAL SHEAR FORCE IN KIPS
T INDICATES TORSIONAL MOMENT IN KIP-FEET
P INDICATES FACTORED MEMBER AXIAL FORCE IN KIPS
TF INDICATES FACTORED AXIAL FORCE TRANSFERRED THROUGH THE CONNECTION JOINT IF DIFFERENT THAN P IN KIPS

3 STEEL BEAM LEGEND
NOT TO SCALE

CONCRETE BEAM AND COLUMN LEGEND



B ELEVATION



A PLAN

NOTES:

1. C# INDICATES COLUMN MARK FOR COLUMN ABOVE SLAB
   TR INDICATES TRANSFER COLUMN
   SEE CONCRETE COLUMN SCHEDULE
2. B# INDICATES NONPRESTRESSED REINFORCED CONCRETE BEAM
   PT# INDICATES POST-TENSIONED CONCRETE BEAM
   TR#PT# INDICATES TRANSFER POST-TENSIONED CONCRETE BEAM
   SEE CONCRETE BEAM SCHEDULES

4 CONCRETE BEAM AND COLUMN LEGEND
NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

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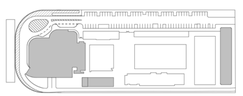
KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
GENERAL SCHEDULES AND LEGENDS

PROJECT NUMBER: 010326.000

SCALE: 12" = 1'-0"

SHEET
S0-102

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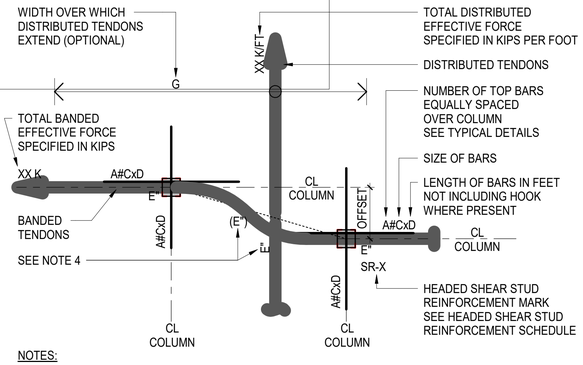
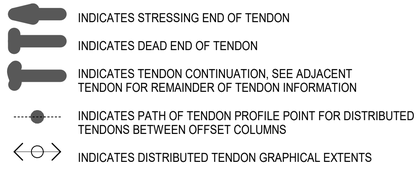


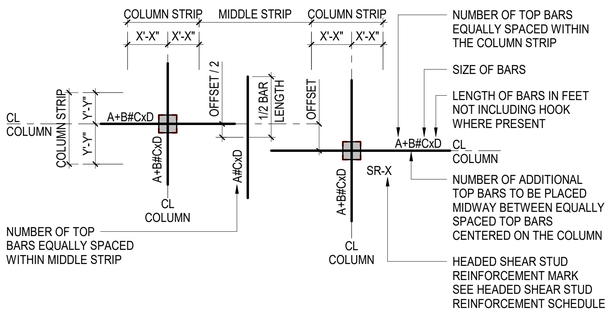
NOTES:

1. CENTERLINE OF COLUMN MAY NOT COINCIDE WITH GRIDLINES SEE DRAWINGS FOR OFFSET DIMENSIONS
2. HOOK ALL TOP BARS THAT PASS THROUGH COLUMN AT EXTERIOR SUPPORT WITH 90° STANDARD HOOK OR IF NECESSARY USE 180° STANDARD HOOK
3. SEE PLANS FOR ACTUAL ORIENTATION OF BANDED AND DISTRIBUTED TENDONS
4. DIMENSION E OR (E) IS MEASURED FROM BOTTOM OF SLAB OR BOTTOM OF DROP PANEL RESPECTIVELY TO CENTROID OF TENDON FORCE
6. SYMBOLS:



TWO-WAY POST-TENSIONED SLAB TOP BAR REINFORCEMENT AND TENDON LEGEND

1 NOT TO SCALE

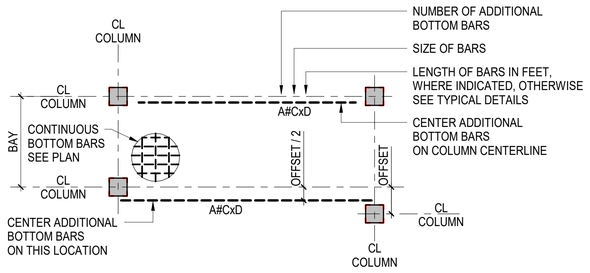


TOP BAR LEGEND NOTES:

1. NUMBER/SIZE/LENGTH OF MIDDLE STRIP BARS SHOWN IN ONE DIRECTION ONLY SAME NOTATION APPLIES IN PERPENDICULAR DIRECTION
2. CENTERLINE OF COLUMN MAY NOT COINCIDE W/ GRIDLINES SEE DRAWINGS FOR OFFSET DIMENSION
3. HOOK ALL TOP BARS THAT PASS THROUGH COLUMN AT EXTERIOR SUPPORT WITH 90° STANDARD HOOK OR IF NECESSARY USE 180° STANDARD HOOK

TWO-WAY SLAB TOP BAR REINFORCEMENT LEGEND

3 NOT TO SCALE

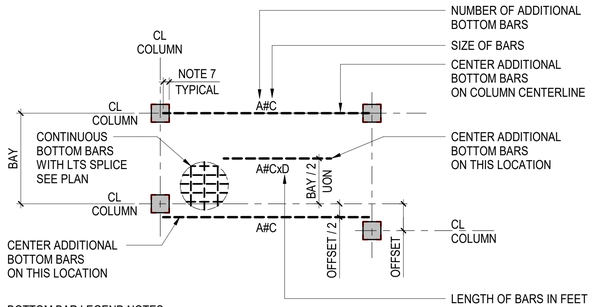


NOTES:

1. NUMBER / SIZE / LENGTH OF BARS SHOWN IN ONE DIRECTION ONLY THE SAME NOTATIONS APPLY IN PERPENDICULAR DIRECTION
2. CENTERLINE OF COLUMN MAY NOT COINCIDE W/ GRIDLINES SEE DRAWINGS FOR OFFSET DIMENSION
3. PLACE ADDITIONAL BARS AT SAME SPACING OF CONTINUOUS BARS AND MIDWAY BETWEEN CONTINUOUS BARS, UON
4. ALL CONTINUOUS BOTTOM BARS TO EXTEND WITHIN 2 INCHES OF SLAB EDGE
5. AT EXTERIOR SUPPORT HOOK BOTTOM BARS THAT PASS THROUGH COLUMN WITH 90° STANDARD HOOK OR IF NECESSARY USE 180° STANDARD HOOK.

TWO-WAY POST-TENSIONED SLAB BOTTOM BAR REINFORCEMENT LEGEND

2 NOT TO SCALE



BOTTOM BAR LEGEND NOTES:

1. NUMBER / SIZE / LENGTH OF BARS SHOWN IN ONE DIRECTION ONLY SAME NOTATIONS APPLY IN PERPENDICULAR DIRECTION
2. CENTERLINE OF COLUMN MAY NOT COINCIDE W/ GRIDLINES SEE DRAWINGS FOR OFFSET DIMENSION
3. PLACE ADDITIONAL BARS AT SAME SPACING OF CONTINUOUS BARS AND MIDWAY BETWEEN CONTINUOUS BARS UON
4. ALL CONTINUOUS BOTTOM BARS TO EXTEND WITHIN 2 INCHES OF SLAB EDGE
5. A MINIMUM OF 2 BOTTOM BARS MUST EXTEND THROUGH THE COLUMN JOINT IN EACH DIRECTION
6. AT EXTERIOR SUPPORT HOOK 2 BOTTOM BARS THAT PASS THROUGH COLUMN WITH 90° STANDARD HOOK OR IF NECESSARY USE 180° STANDARD HOOK
7. EXTEND BOTTOM BARS 6 INCHES INTO SUPPORT AT EACH END

TWO-WAY SLAB BOTTOM BAR REINFORCEMENT LEGEND

4 NOT TO SCALE

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TT Project Number: K20063.00
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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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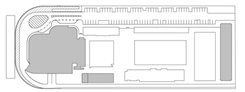
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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DRAWING TITLE
GENERAL LEGENDS

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

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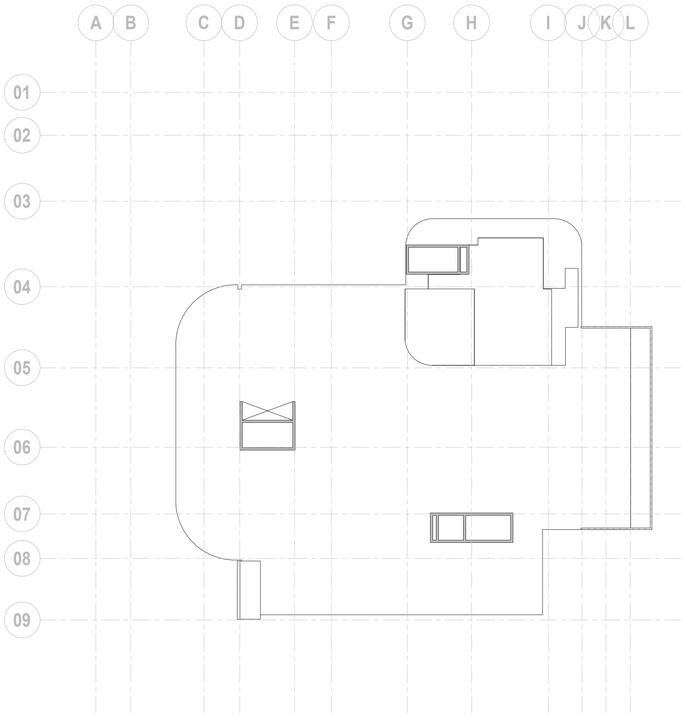
DESIGN LOADING SCHEDULE

DESCRIPTION	DESIGNATION MARK	UNFACTORED SUPERIMPOSED DEAD LOAD (PSF UON)		UNFACTORED LIVE LOAD (PSF UON)	
STAIRS/CORRIDOR	4	10	5 MEP + 2 CEILING + 3 FINISHES	100	SEE NOTE 1
MEP	3	10	15 MEP + 2 CEILING + 3 FINISHES	150	EQUIPMENT
CORRIDOR	5	25	5 MEP + 2 CEILING + 3 FINISHES	80	-
PUBLIC	2	25	2 CEILING + 3 FINISHES	100	PUBLIC OCCUPANCY
FLOWRIDER	10	TBD	5 MEP + 2 CEILING + 3 FINISHES	100	SEE NOTE 1
OFFICE	1	25	15 MEP + 2 CEILING + 3 FINISHES	70	EQUIPMENT
LOCKER	7	40	5 MEP + 2 CEILING + 3 FINISHES	100	STORAGE
MECH TERRACE	8	30	2 CEILING + 3 FINISHES	150	STORAGE
ROOF	9	50	2 CEILING + 3 FINISHES	100	PUBLIC OCCUPANCY
TERRACE	6	50	2 CEILING + 3 FINISHES	100	PUBLIC OCCUPANCY

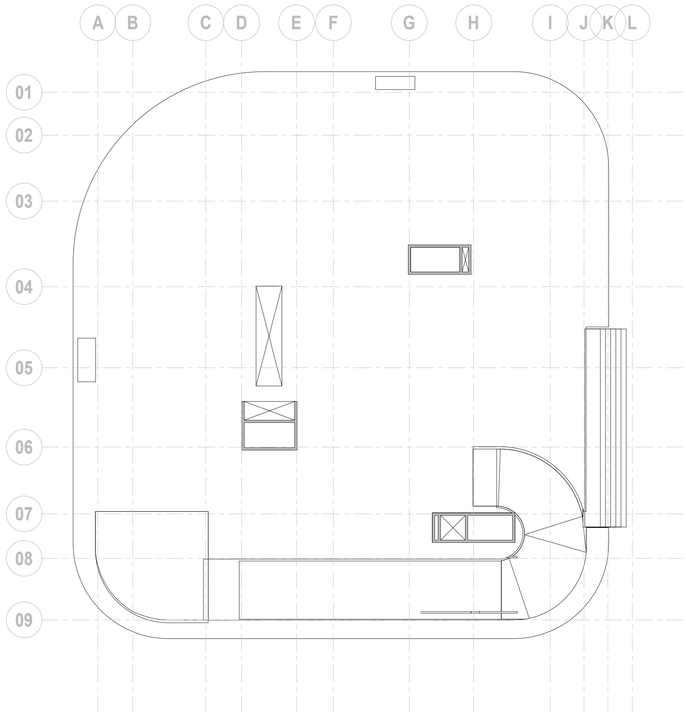
NOTES:

1. DESIGN LIVE LOAD INCLUDES 15 PSF PARTITION ALLOWANCE



1 LEVEL 01LOADING DIAGRAM

SCALE: 1" = 30'-0"



2 LEVEL 02 LOADING DIAGRAM

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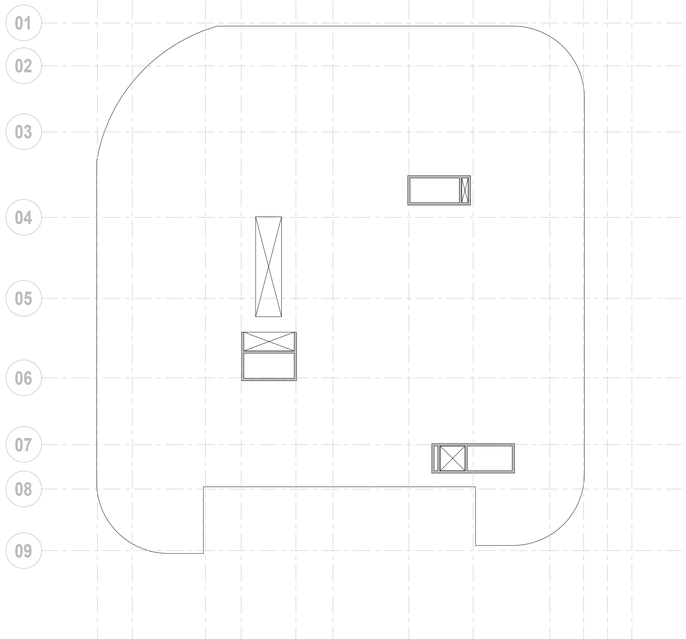

3 LEVEL 03 LOADING DIAGRAM

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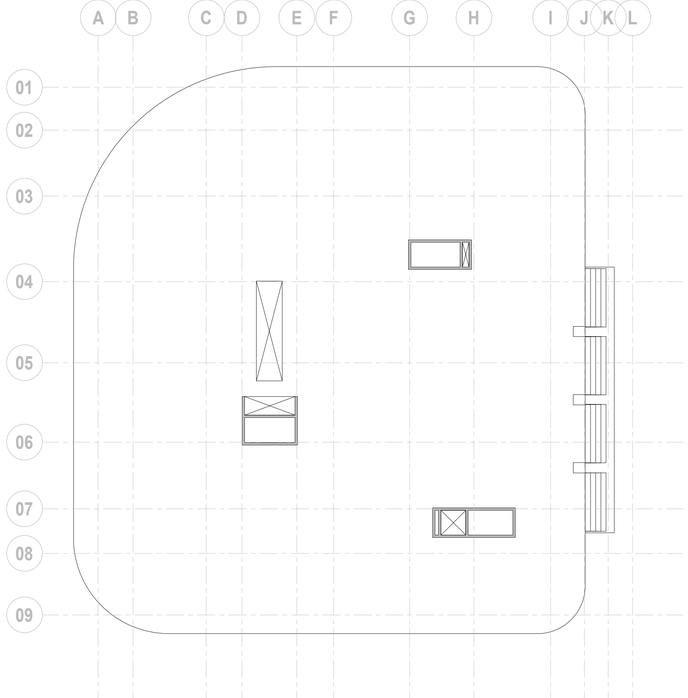

4 LEVEL 04 FRAMING PLAN LOADING DIAGRAM

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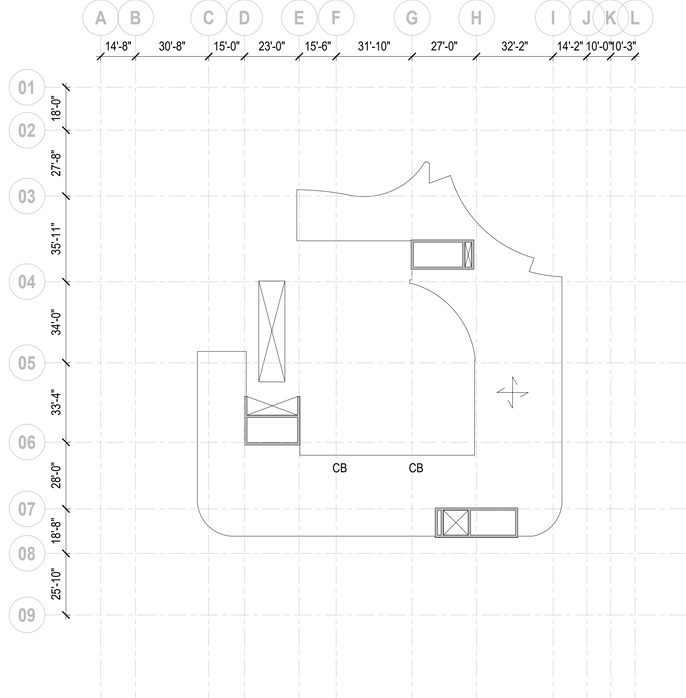

5 LEVEL 04 MEZZ LOADING DIAGRAM

SCALE: 1" = 30'-0"

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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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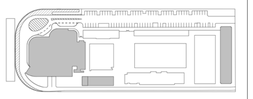
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
LOADING DIAGRAMS

PROJECT NUMBER: 010326.000

SCALE: As indicated

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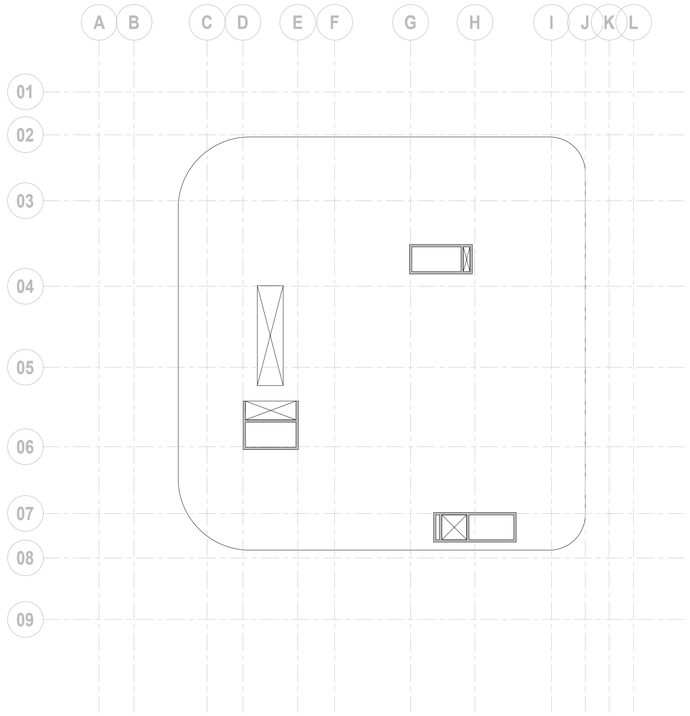

1 LEVEL 05 LOADING DIAGRAM
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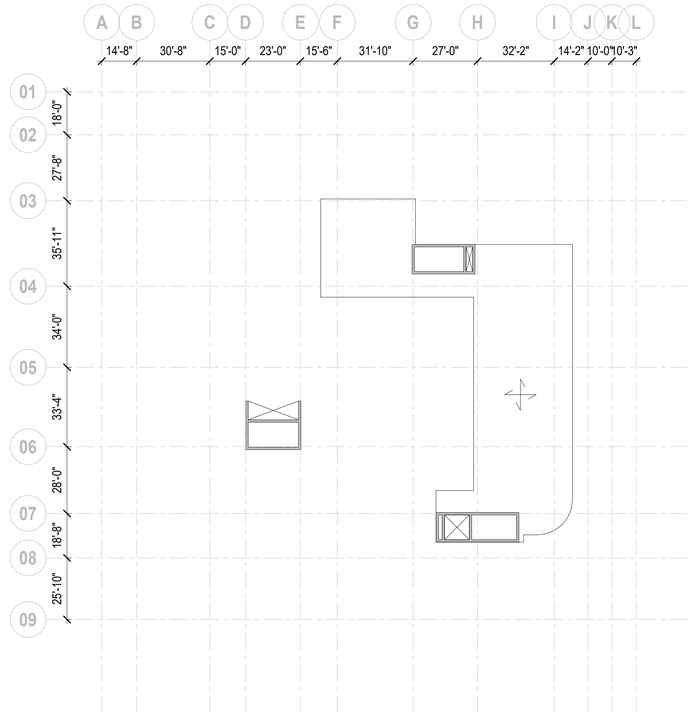
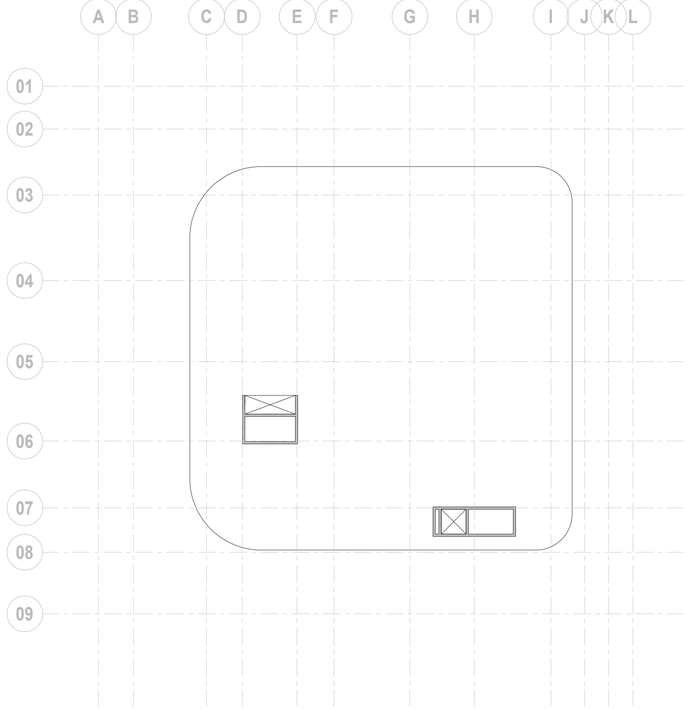


2 LEVEL 05 MEZZ LOADING DIAGRAM
SCALE: 1" = 30'-0"



3 LEVEL 06 LOADING DIAGRAM
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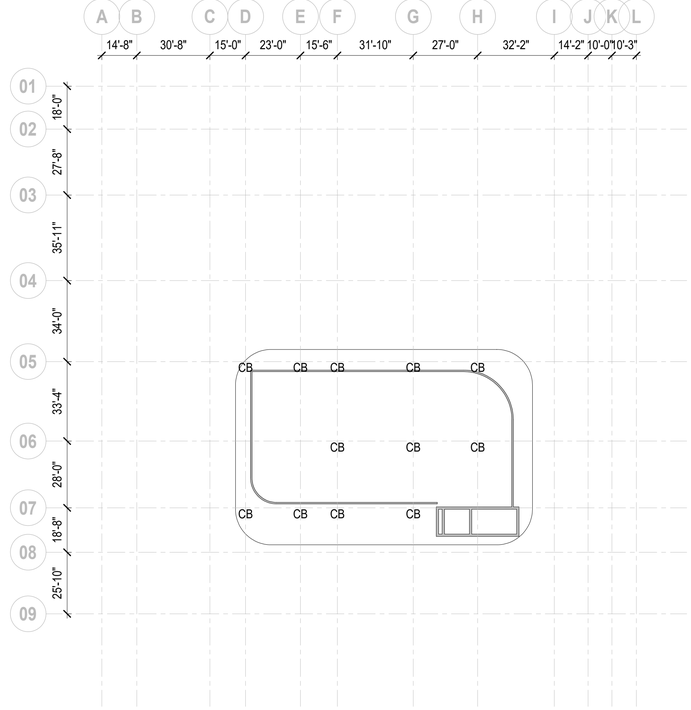

4 LEVEL 07 HIGH ROOF FRAMING PLAN
SCALE: 1" = 30'-0"

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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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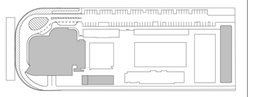
KEY PLAN:



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LOADING DIAGRAM

PROJECT NUMBER: 010326.000

SCALE: 1" = 30'-0"

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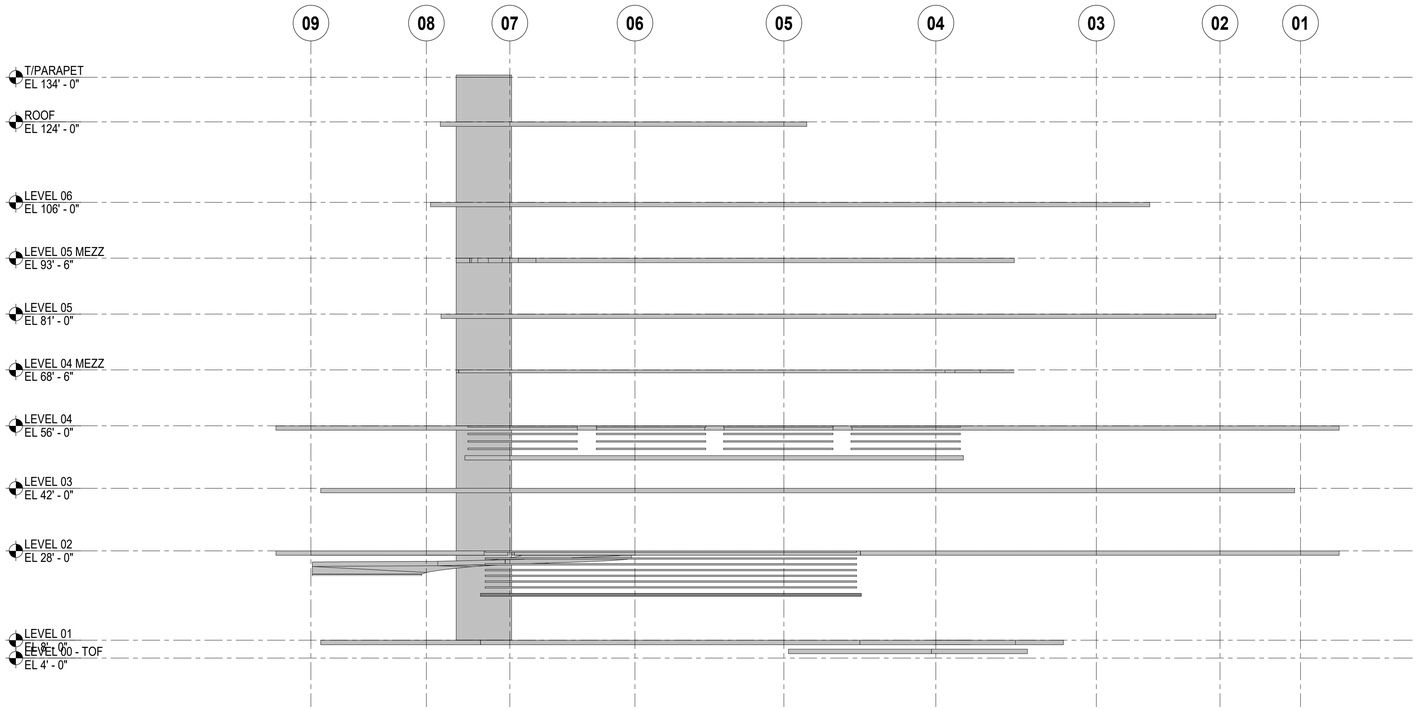
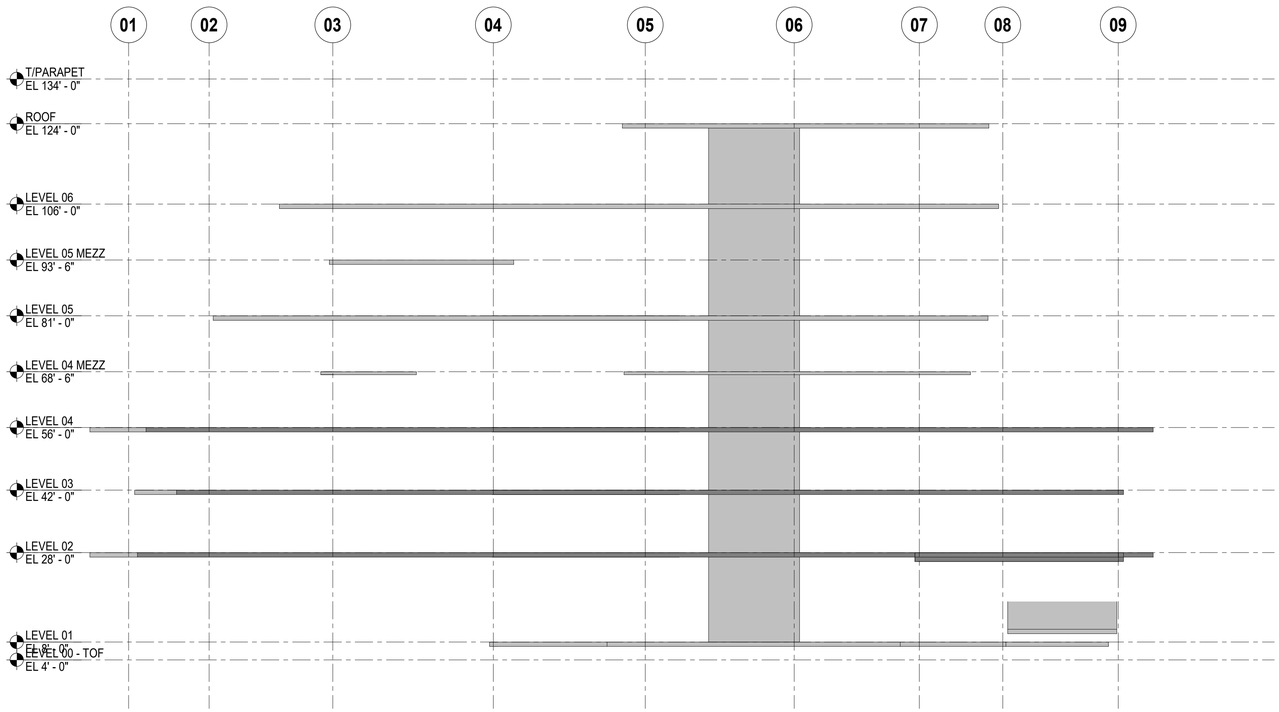


1 EAST EALVATION

SCALE: 1/16" = 1'-0"



2 WEST ELEVATION

SCALE: 1/16" = 1'-0"

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55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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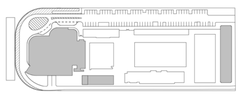

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SCALE: 1/16" = 1'-0"

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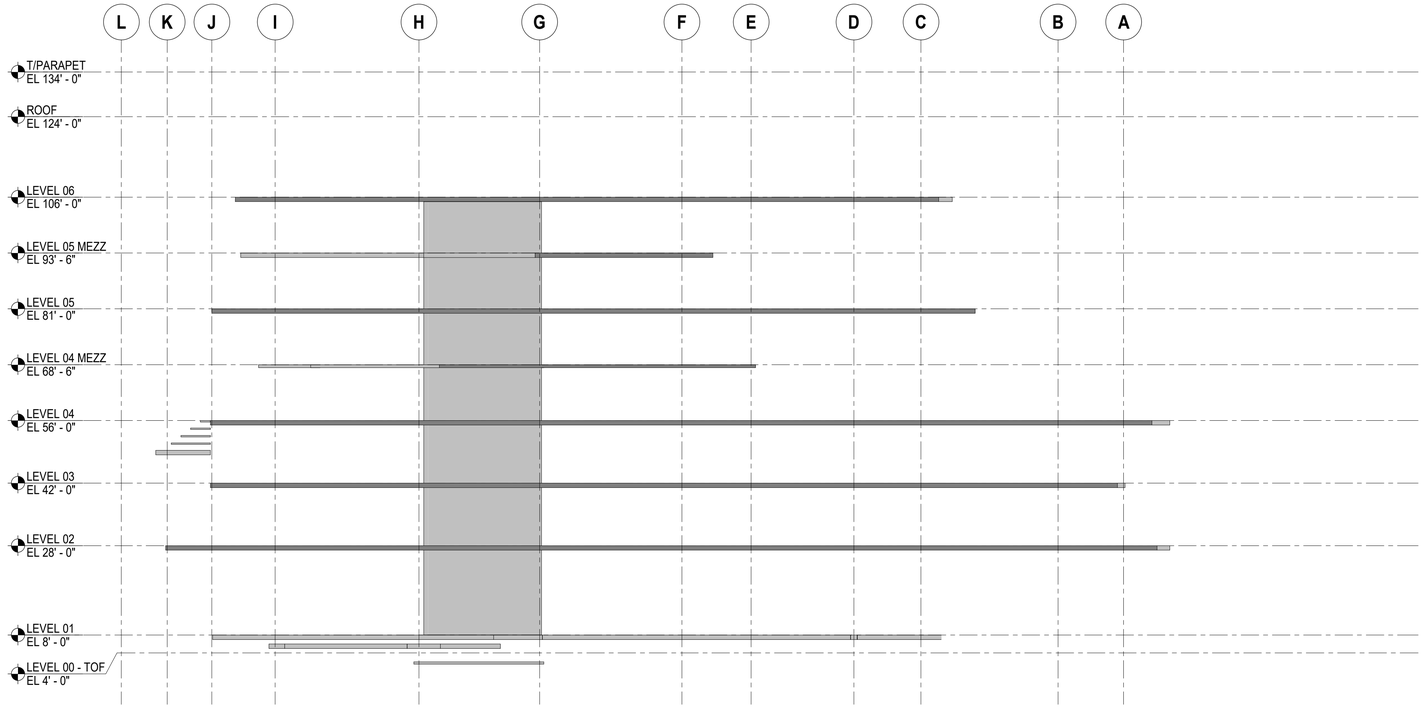
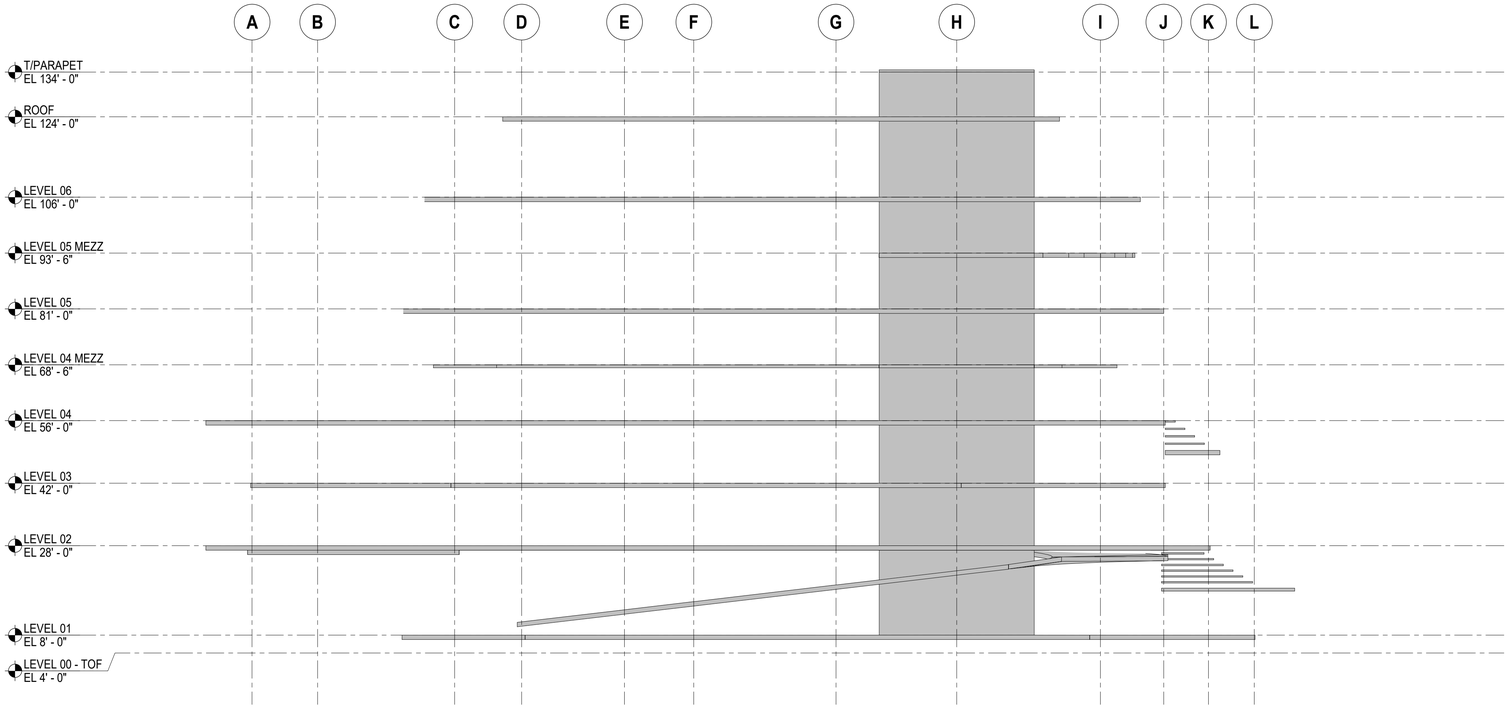


1 WEST BLDG - NORTH ELEVATION

SCALE: 1/16" = 1'-0"



2 WEST BLDG - SOUTH ELEVATION

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Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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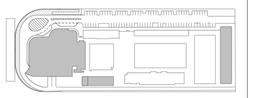

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PROJECT NORTH:

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ELEVATION

PROJECT NUMBER: 010326.000
DATE: 08/22/22
SCALE: 1/16" = 1'-0"

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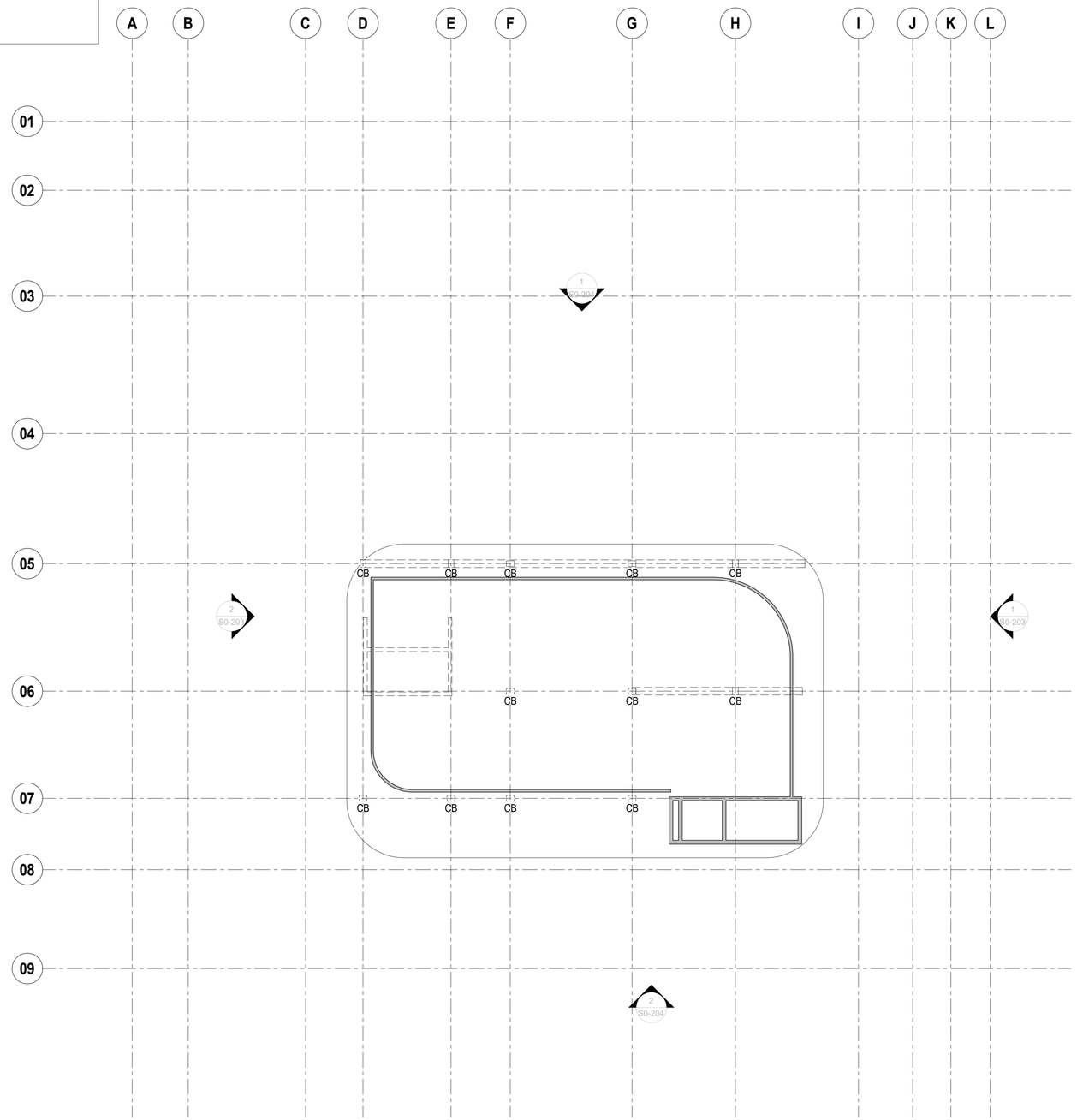

1 ROOF PLAN FOR COMPONENTS & CLADDING

SCALE: 1/16" = 1'-0"

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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL, 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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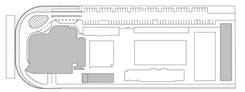
KEY PLAN:



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DRAWING TITLE
ROOF PLAN FOR COMPONENTS & CLADDING

PROJECT NUMBER: 010326.000
DATE: 07/25/22
SCALE: 1/16" = 1'-0"

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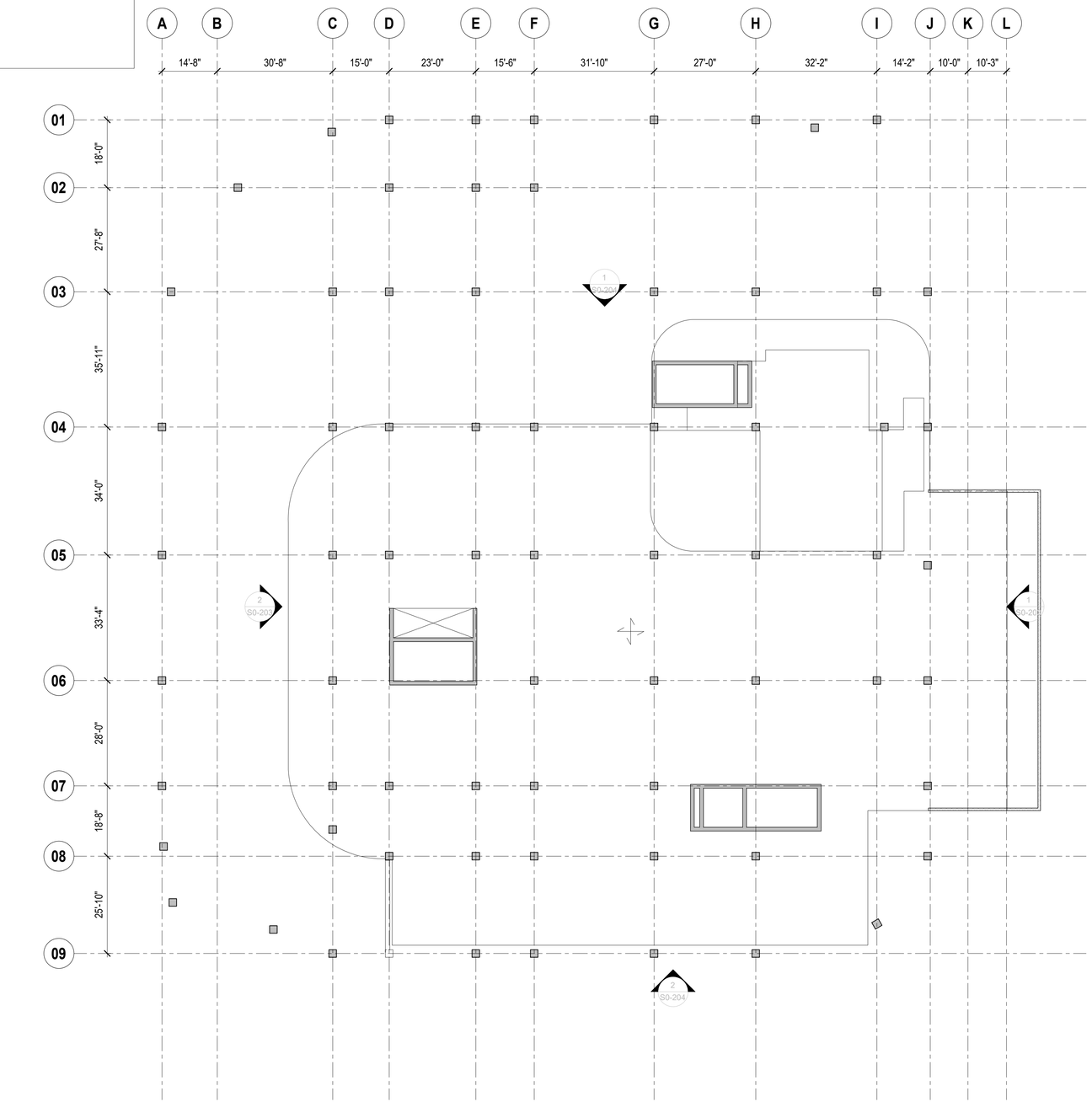
TT Project Number: K20063.00



1 LEVEL 01 FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
2. T/FOOTING = EL YY'-Y", UON
3. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:

   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
4. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
5. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
6. SEE DRAWING SX-XXX FOR SLAB REINFORCEMENT
7. FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:

DRAWING LISTS, GENERAL NOTES AND LOADING DIAGRAMS	S0 SERIES DRAWINGS
TYPICAL FOUNDATION DETAILS	S2 SERIES DRAWINGS
LATERAL SYSTEM ELEVATIONS, CONNECTION FORCES AND DETAILS	S3 SERIES DRAWINGS
CONCRETE SUPERSTRUCTURE SCHEDULES AND DETAILS	S4 SERIES DRAWINGS
STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

8. SYMBOLS:

   Y" INDICATES ONE-WAY SLAB Y" THICK AND SPAN DIRECTION

   SX INDICATES ONE-WAY SLAB SPAN DIRECTION SEE ONE-WAY SCHEDULE AND ONE-WAY SLAB DETAILS

   UP INDICATES SLOPE IN TOP OF SLAB
9. NOTATIONS:

   CA / CB INDICATES COLUMN ABOVE / BELOW

   DB INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)

   TR INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

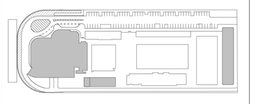
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 1 FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-001

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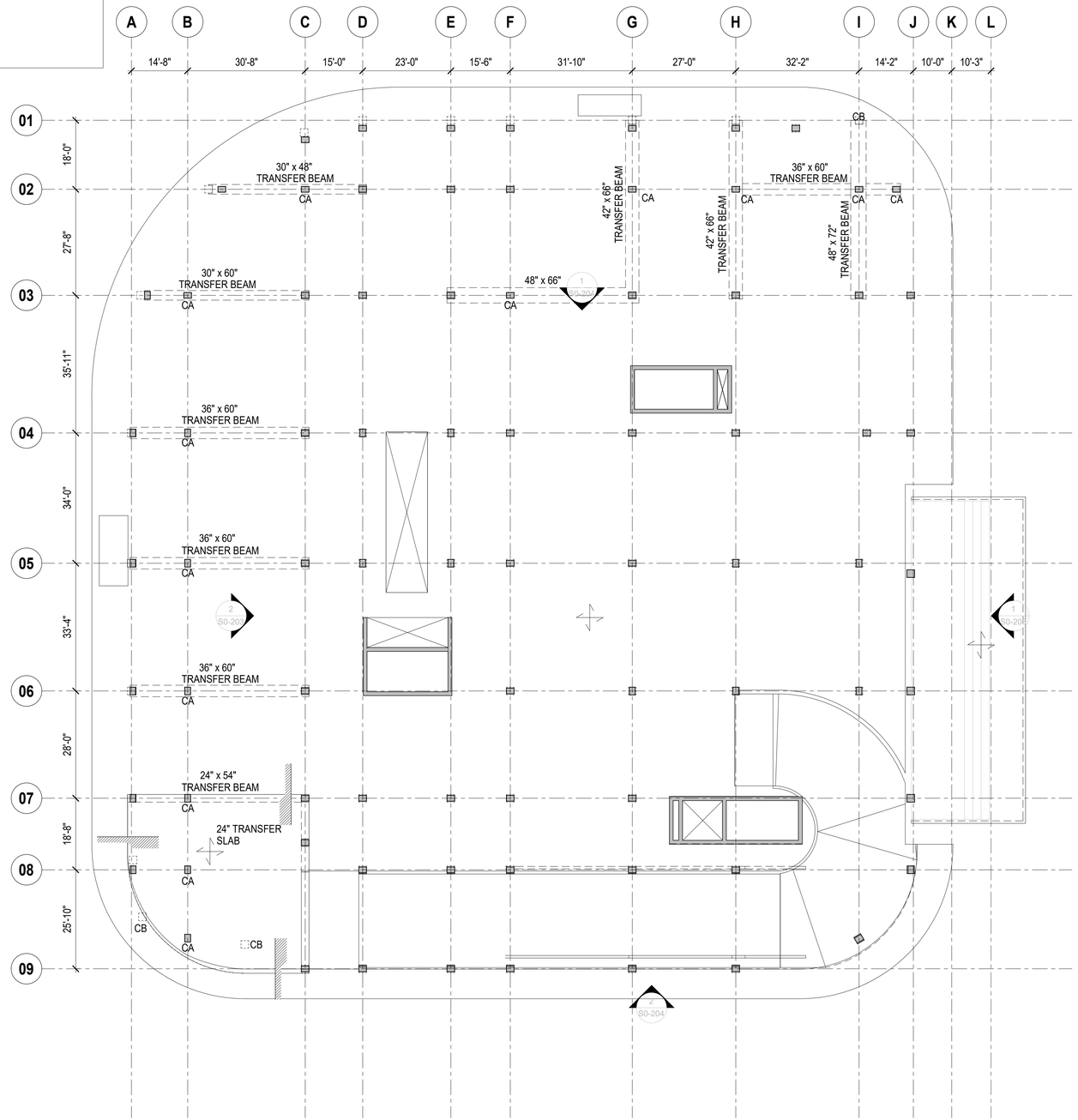
TT Project Number: K20063.00



1 LEVEL 02 FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
3. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
4. SEE DRAWING SX-XXX FOR SLAB REINFORCEMENT
5. FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:

DRAWING LISTS, GENERAL NOTES AND LOADING DIAGRAMS	S0 SERIES DRAWINGS
TYPICAL FOUNDATION DETAILS	S2 SERIES DRAWINGS
LATERAL SYSTEM ELEVATIONS, CONNECTION FORCES AND DETAILS	S3 SERIES DRAWINGS
CONCRETE SUPERSTRUCTURE SCHEDULES AND DETAILS	S4 SERIES DRAWINGS
STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

6. SYMBOLS:
   Y" INDICATES ONE-WAY SLAB Y" THICK AND SPAN DIRECTION
   SX INDICATES ONE-WAY SLAB SPAN DIRECTION SEE ONE-WAY SCHEDULE AND ONE-WAY SLAB DETAILS
   UP INDICATES SLOPE IN TOP OF SLAB
7. NOTATIONS:
   CA / CB INDICATES COLUMN ABOVE / BELOW
   DB INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
   TR INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 2 FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-002

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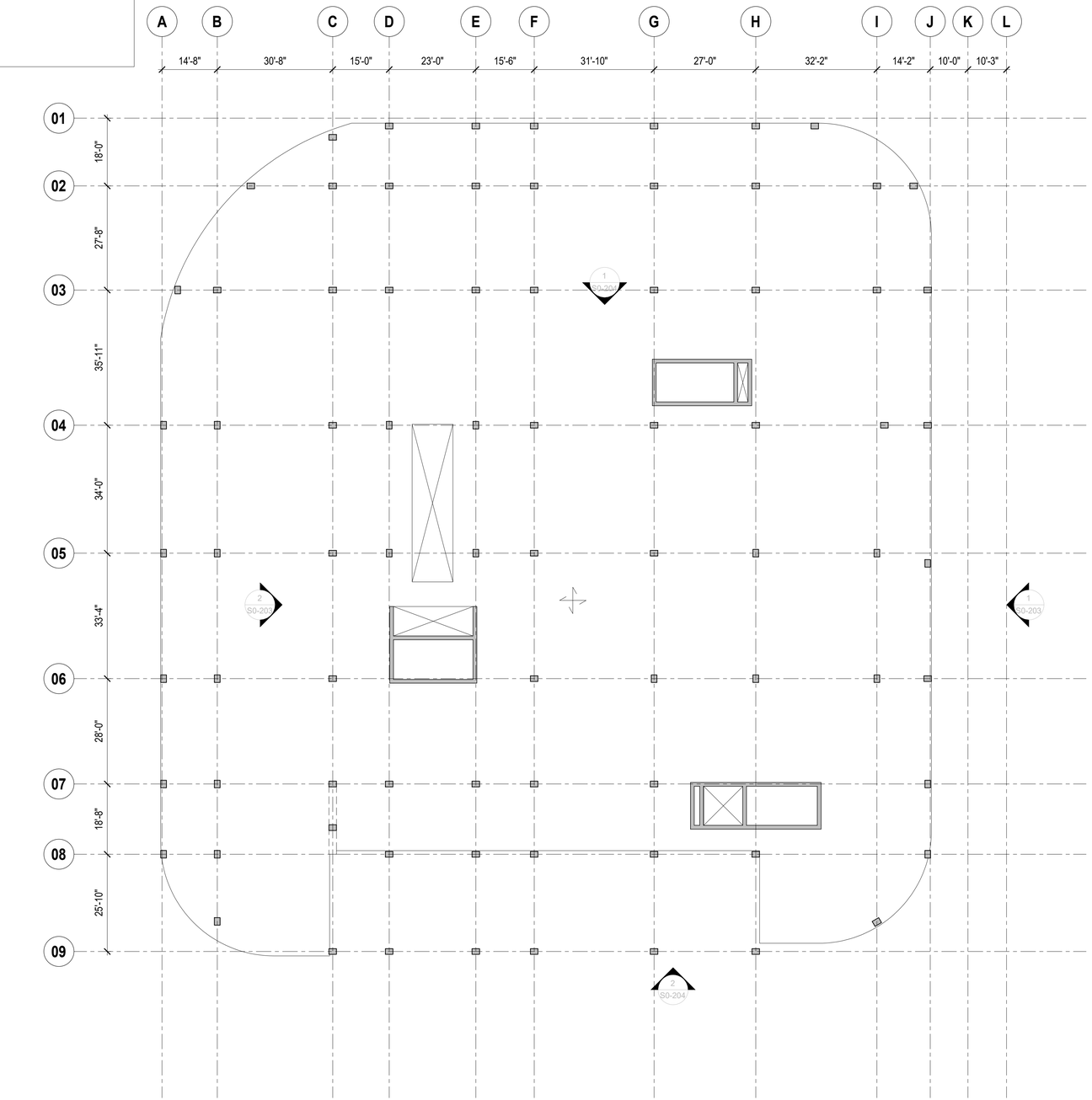
TT Project Number: K20063.00



1 LEVEL 03 FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
3. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
4. SEE DRAWING SX-XXX FOR SLAB REINFORCEMENT
5. FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:

DRAWING LISTS, GENERAL NOTES AND LOADING DIAGRAMS	S0 SERIES DRAWINGS
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LATERAL SYSTEM ELEVATIONS, CONNECTION FORCES AND DETAILS	S3 SERIES DRAWINGS
CONCRETE SUPERSTRUCTURE SCHEDULES AND DETAILS	S4 SERIES DRAWINGS
STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

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   Y" INDICATES ONE-WAY SLAB Y" THICK AND SPAN DIRECTION
   SX INDICATES ONE-WAY SLAB SPAN DIRECTION SEE ONE-WAY SCHEDULE AND ONE-WAY SLAB DETAILS
   UP INDICATES SLOPE IN TOP OF SLAB
7. NOTATIONS:

CA / CB	INDICATES COLUMN ABOVE / BELOW
DB	INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
TR	INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

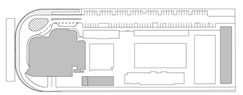
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 3 FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-003

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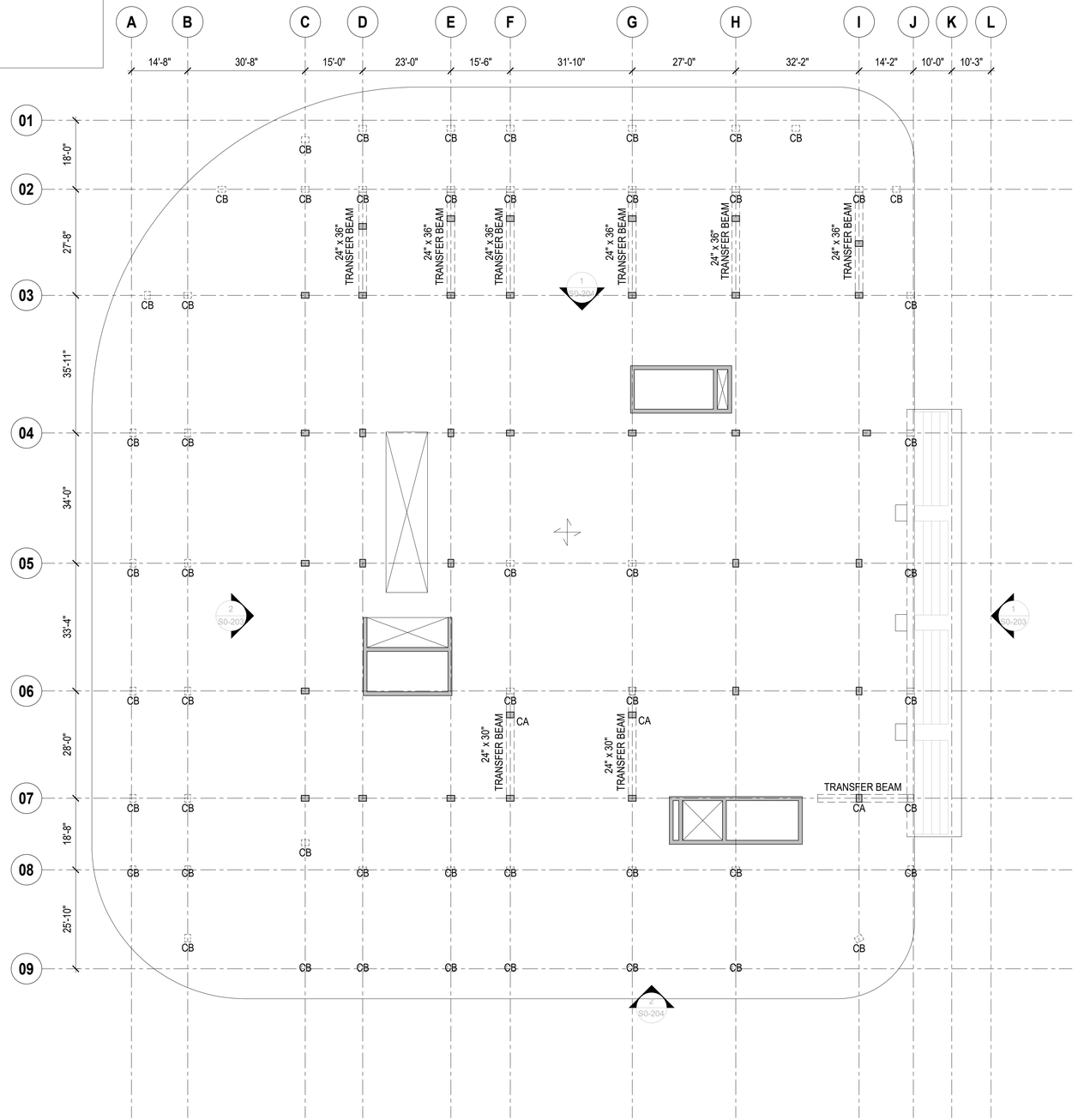

1 LEVEL 04

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
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STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

6. SYMBOLS:
   Y" INDICATES ONE-WAY SLAB Y" THICK AND SPAN DIRECTION
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7. NOTATIONS:

CA / CB	INDICATES COLUMN ABOVE / BELOW
DB	INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
TR	INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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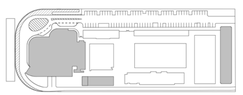
PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 4 FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-004

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TT Project Number: K20063.00
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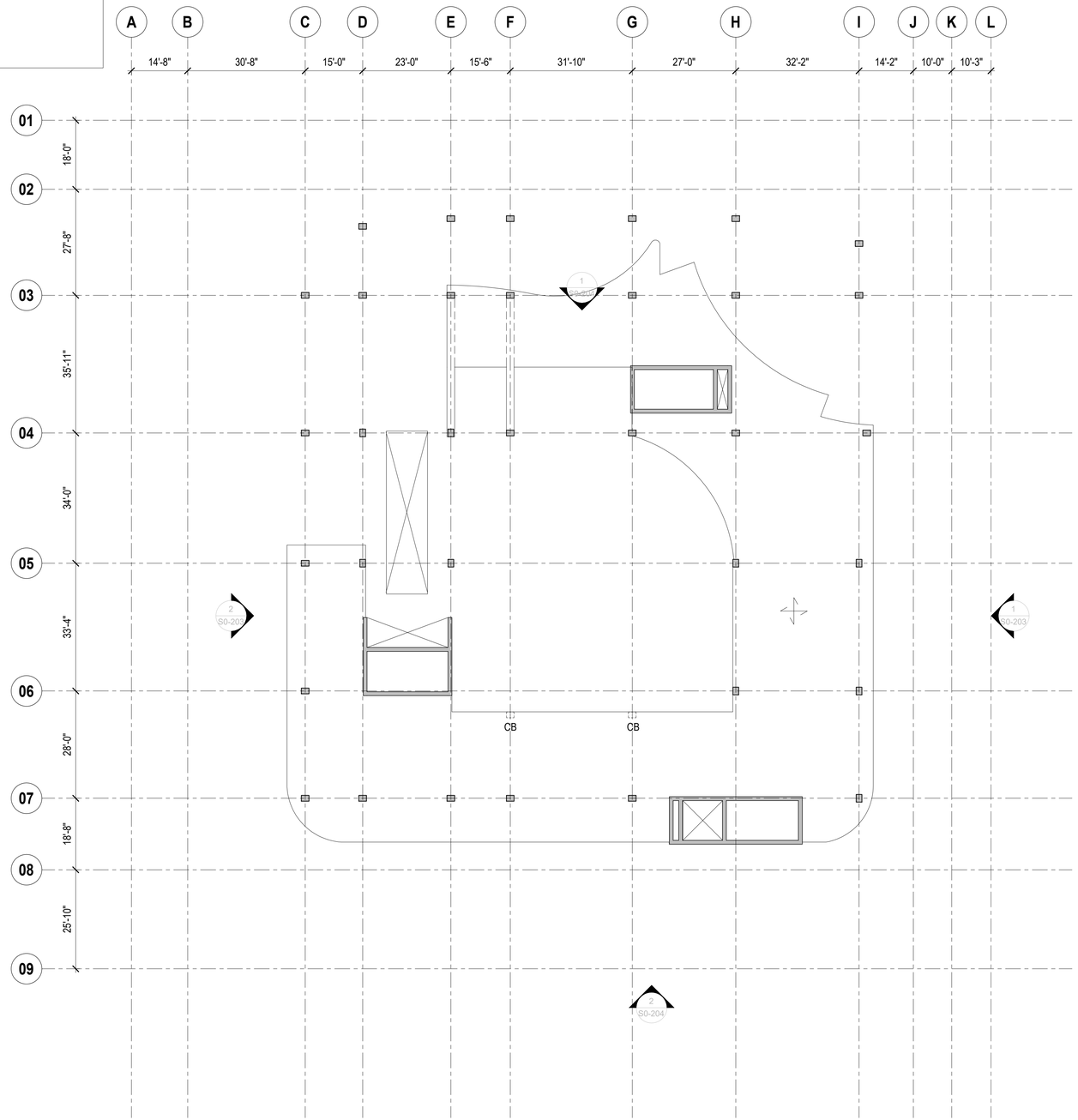

1 LEVEL 04 MEZZ

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
3. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
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6. SYMBOLS:
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7. NOTATIONS:

CA / CB	INDICATES COLUMN ABOVE / BELOW
DB	INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
TR	INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
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PROJECT
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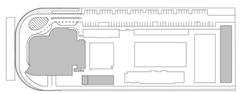
KEY PLAN:



△	DESCRIPTION	DATE

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TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 4 MEZZ FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-004M

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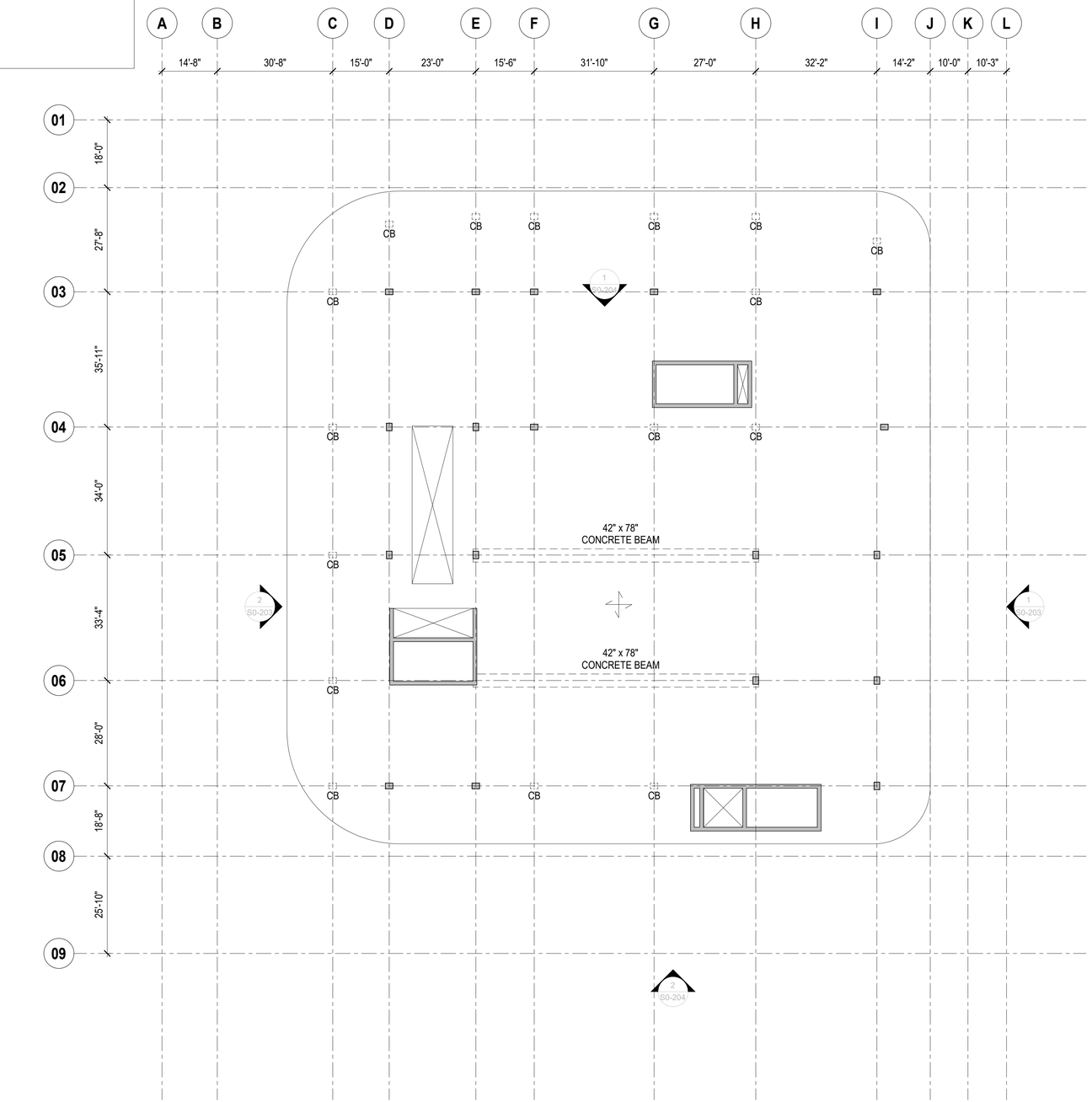

1 LEVEL 05

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
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STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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PROJECT
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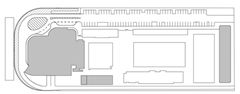
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
LEVEL 5 FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-005

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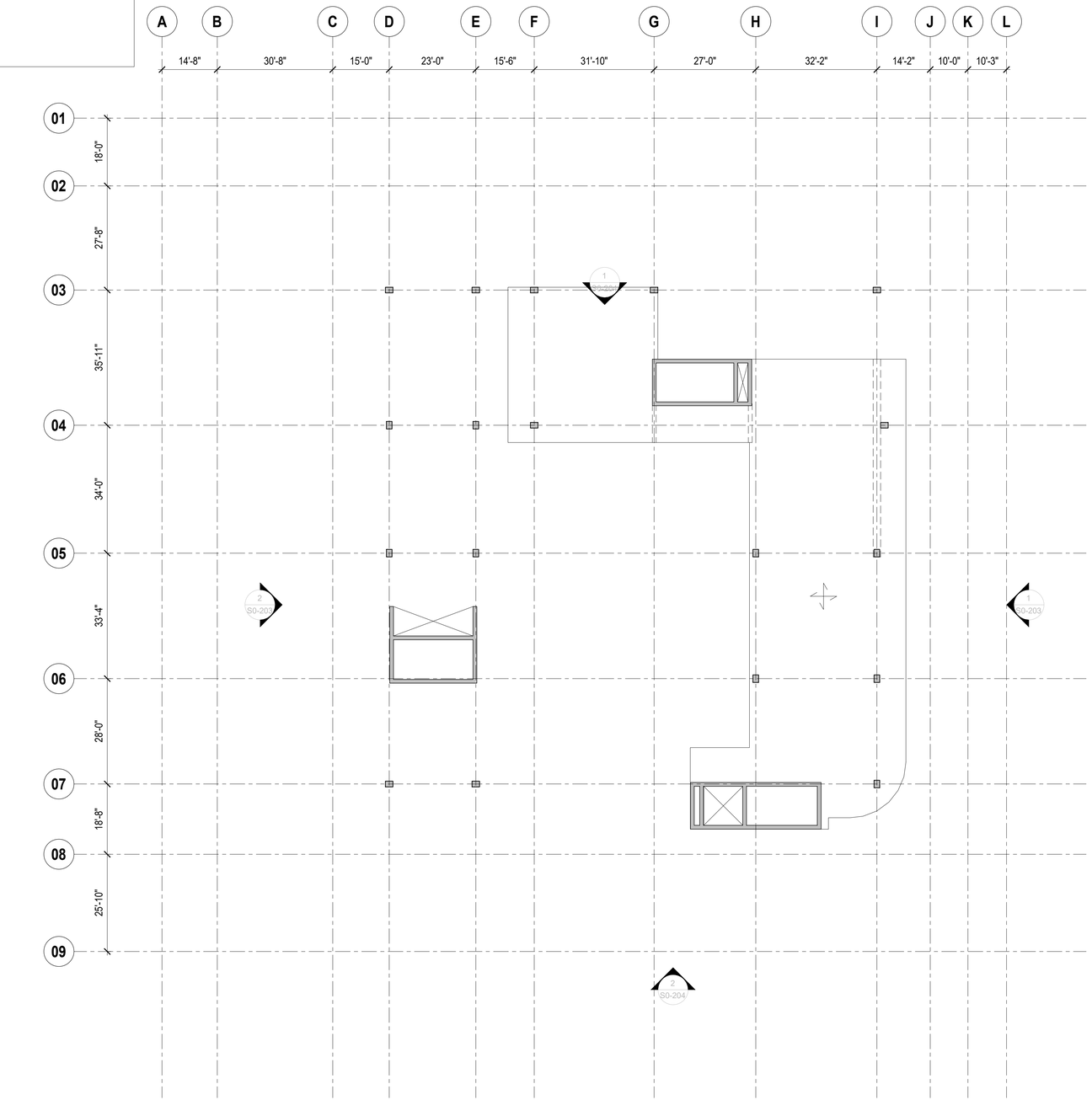
TT Project Number: K20063.00



1 LEVEL 05 MEZZ

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
3. SEE GENERAL NOTES FOR CONCRETE COMPRESSIVE STRENGTH
4. SEE DRAWING SX-XXX FOR SLAB REINFORCEMENT
5. FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:

DRAWING LISTS, GENERAL NOTES AND LOADING DIAGRAMS	S0 SERIES DRAWINGS
TYPICAL FOUNDATION DETAILS	S2 SERIES DRAWINGS
LATERAL SYSTEM ELEVATIONS, CONNECTION FORCES AND DETAILS	S3 SERIES DRAWINGS
CONCRETE SUPERSTRUCTURE SCHEDULES AND DETAILS	S4 SERIES DRAWINGS
STEEL SUPERSTRUCTURE SCHEDULES AND DETAILS	S5 SERIES DRAWINGS
MASONRY DETAILS	S6 SERIES DRAWINGS

6. SYMBOLS:
   Y" INDICATES ONE-WAY SLAB Y" THICK AND SPAN DIRECTION
   SX INDICATES ONE-WAY SLAB SPAN DIRECTION SEE ONE-WAY SCHEDULE AND ONE-WAY SLAB DETAILS
   UP INDICATES SLOPE IN TOP OF SLAB
7. NOTATIONS:

CA / CB	INDICATES COLUMN ABOVE / BELOW
DB	INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
TR	INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

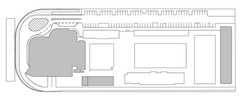
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 5 MEZZ FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-005M

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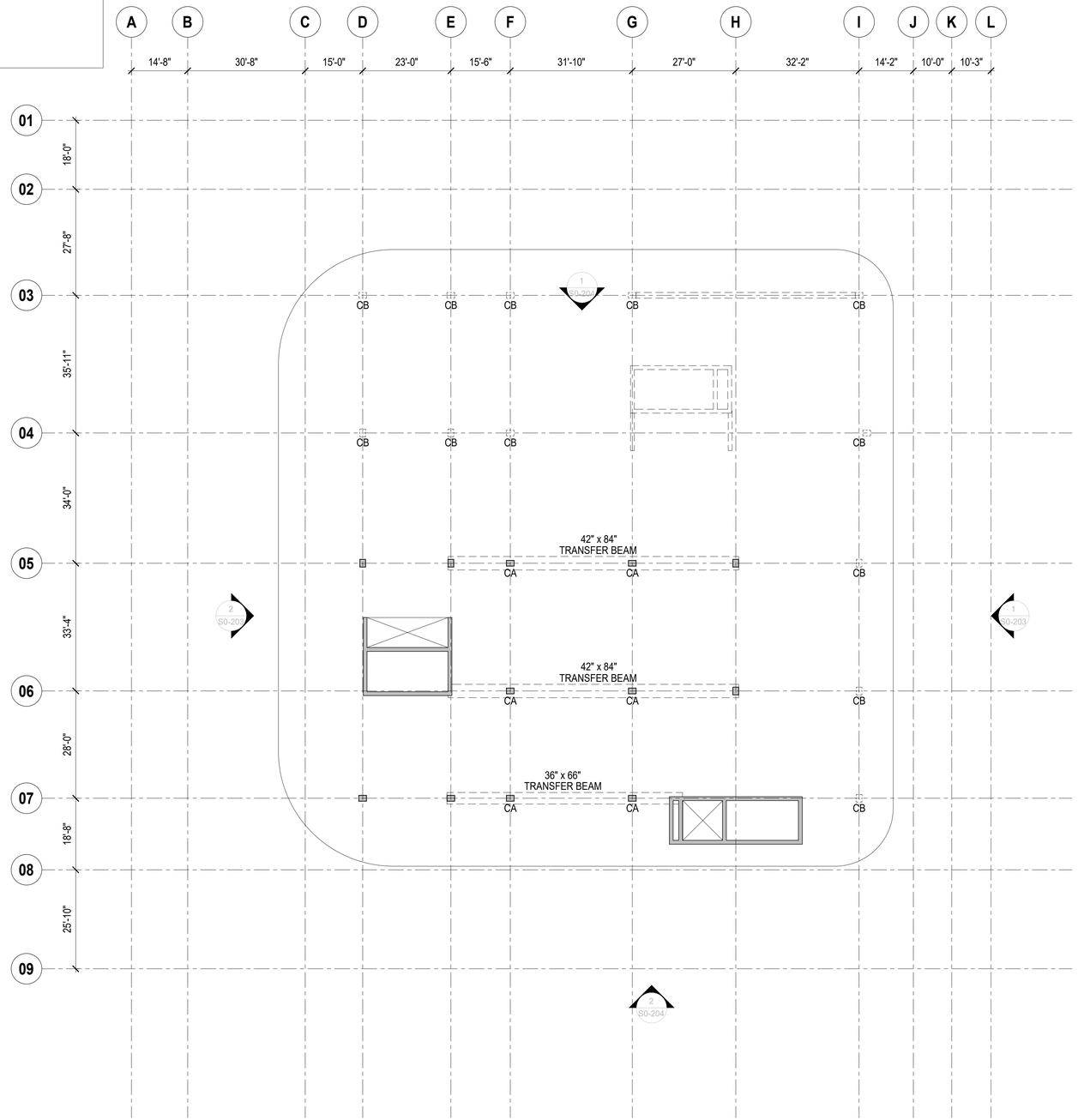

1 LEVEL 06 FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. TOP OF SLAB AND TOP OF BEAM EL +YY'-Y" UON THUS:
   X" X - INDICATES CHANGE IN STRUCTURAL SLAB ELEVATION
2. SLABS TO BE 12" THICK NORMALWEIGHT CONCRETE TWO-WAY SLAB WITH 4 1/4" DROP PANELS, TYPICAL UON
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7. NOTATIONS:

CA / CB	INDICATES COLUMN ABOVE / BELOW
DB	INDICATES HSS8x4x3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
TR	INDICATES COLUMN FROM ABOVE TRANSFERS

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

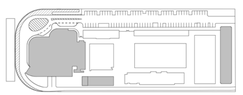
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
LEVEL 6 FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-006

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TT Project Number: K20063.00
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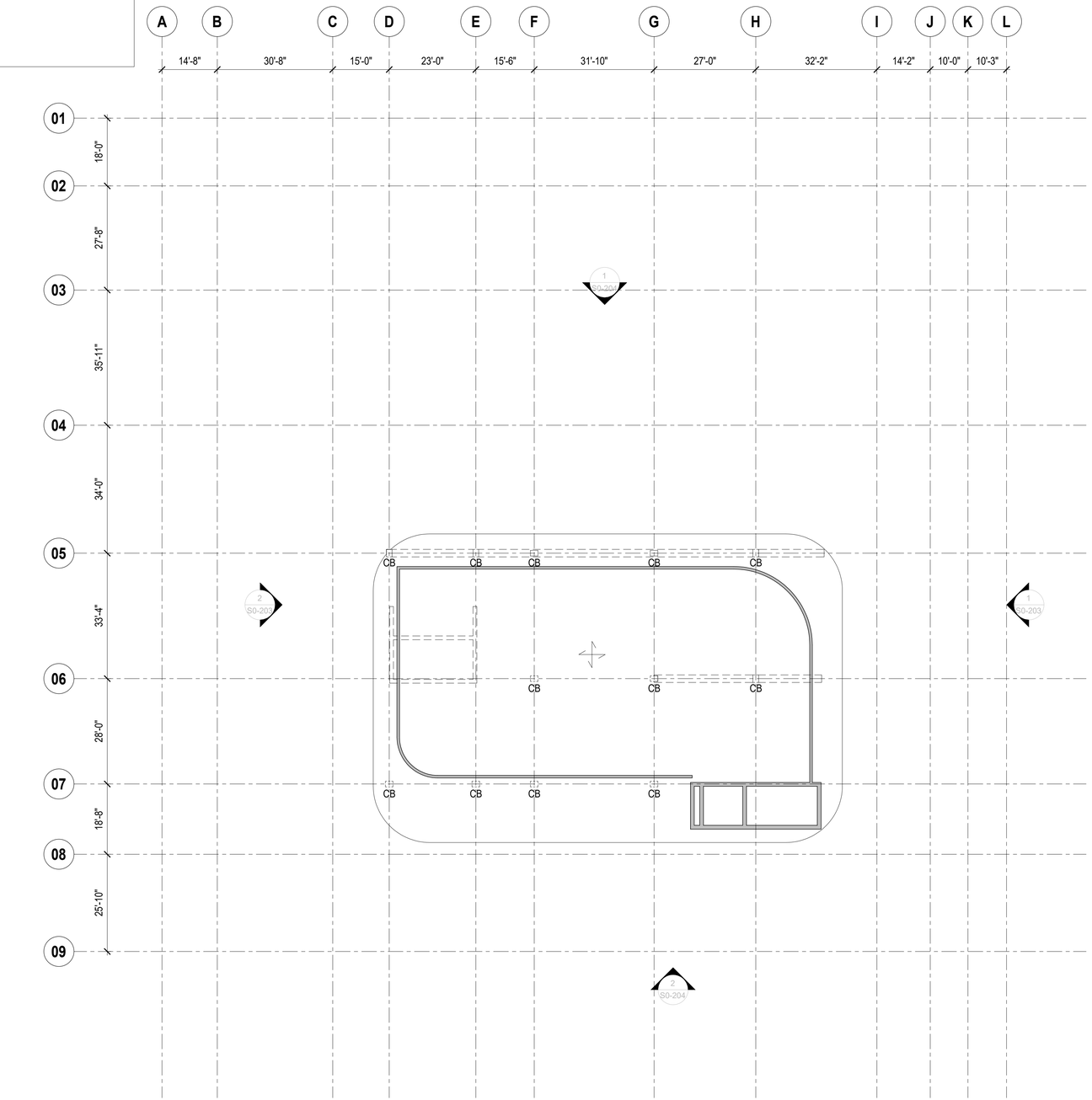
TT Project Number: K20063.00



1 LEVEL 07 HIGH ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTES:

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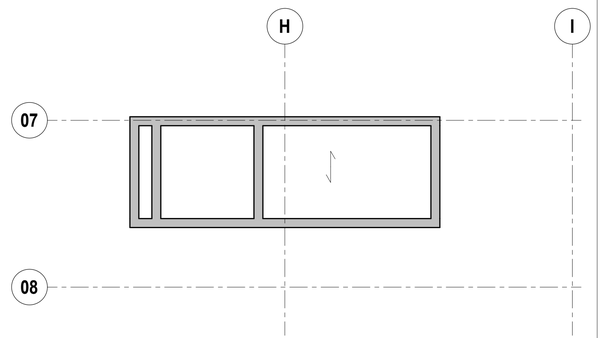
TR	INDICATES COLUMN FROM ABOVE TRANSFERS



3 HIGH ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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PROJECT
ISHOF
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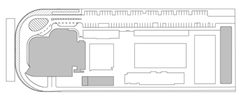
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
LEVEL ROOF FLOOR FRAMING PLAN

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S1-007

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TT Project Number: K20063.00
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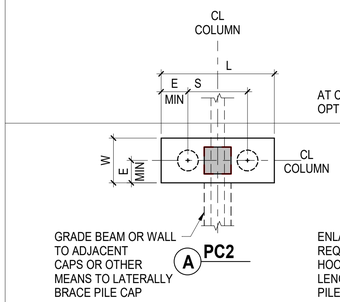
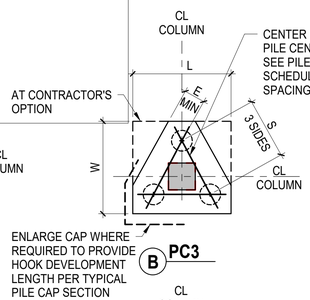
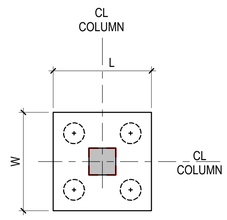


A PC2



B PC3



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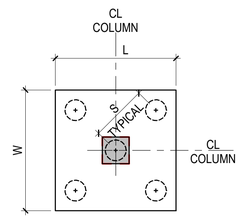

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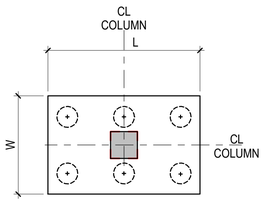

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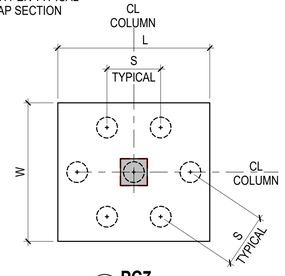
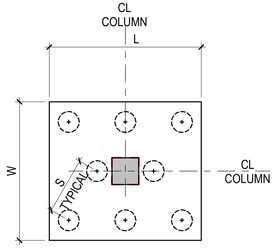
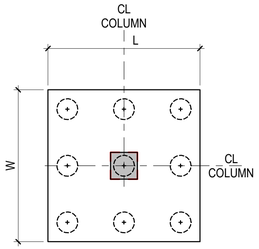


F PC7

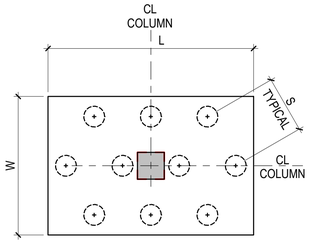


G PC8

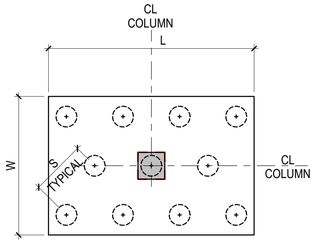
EDGE DISTANCE	
PILE SERVICE CAPACITY (TONS)	**E MINIMUM (IN)**
UP TO 60	15
UP TO 120	21
UP TO 200	27
UP TO 280	30
280+	36



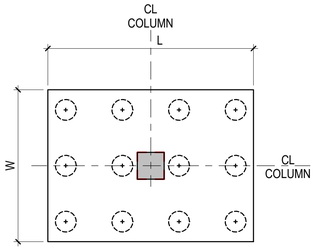
H PC9



J PC10



K PC11



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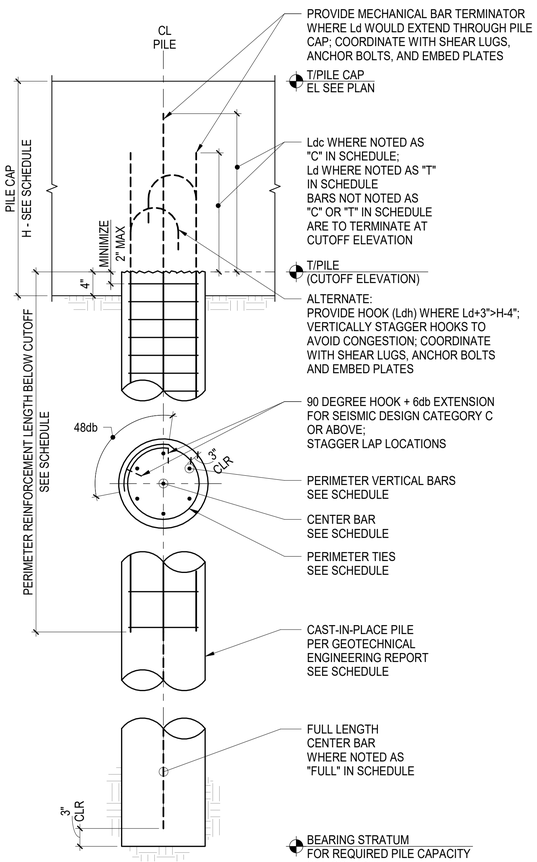
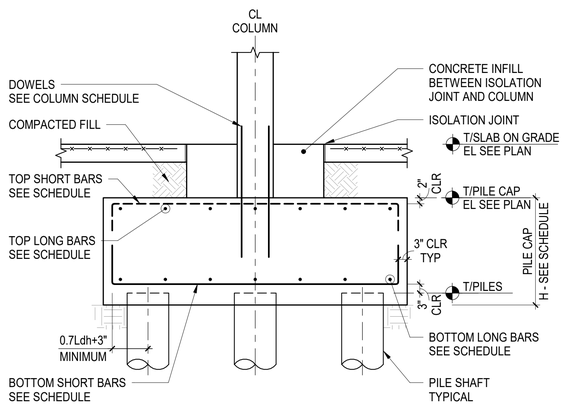
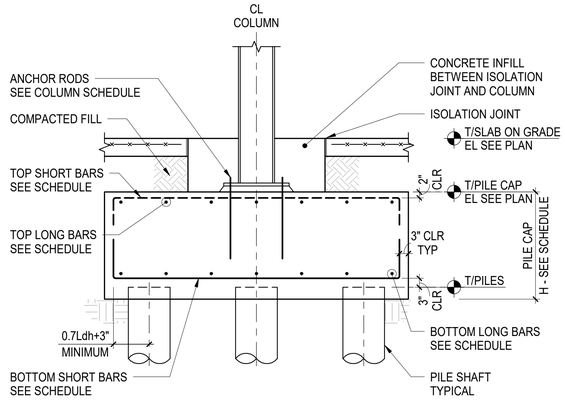


1 CAST-IN-PLACE PILE CAP LAYOUT DETAILS
NOT TO SCALE

2 TYPICAL CAST-IN-PLACE PILE DETAIL
NOT TO SCALE



3 TYPICAL CAST-IN-PLACE PILE CAP SECTION - CONCRETE COLUMN
NOT TO SCALE



4 TYPICAL CAST-IN-PLACE PILE CAP SECTION - STEEL COLUMN
NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
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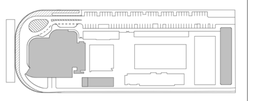
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL CAST-IN-PLACE PILE DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S2-200

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TT Project Number: K20063.00

CAST-IN-PLACE PILE SCHEDULE

f'c = SEE GENERAL NOTES

PILE TYPE	PILE DIAMETER (IN)	PILE SERVICE CAPACITY (TONS)	PILE UPLIFT SERVICE CAPACITY (TONS)	PILE LATERAL SERVICE CAPACITY AT X" DEFORMATION (TONS)	PERIMETER REINFORCEMENT				CENTER REINFORCEMENT		REMARKS
					VERTICAL BAR	LENGTH BELOW CUT OFF	TIES		CENTER BAR	LENGTH BELOW CUT OFF	
							FROM TOP OF PILE	REMAINDER OF CAGE			
P16C	16	X	-	-	-	-	-	-	#X	X'-X"	-
P16C	16	X	-	-	X#XC	X'-X"	X#X@X"	X#X@X"	-	-	
P16T	16	X	X	-	-	-	-	-	#XT	FULL	
P16T	16	X	X	-	X#XT	X'-X"	X#X@X"	X#X@X"	#XT	FULL	
P16CP	16	X	-	X@X"	X#X	X'-X"	X#X@X"	X#X@X"	#XC	X'-X"	
P16TP	16	X	X	X@X"	X#X	X'-X"	X#X@X"	X#X@X"	#XT	FULL	
P16CF	16	X	-	X@X"	X#XT	X'-X"	X#X@X"	X#X@X"	-	-	
P16TF	16	X	X	X@X"	X#XT	X'-X"	X#X@X"	X#X@X"	#XT	FULL	

KEY:
PXXC COMPRESSION PILE
PXXT TENSION PILE - WITH UPLIFT
PXXCP LATERAL PILE WITH PINNED HEAD - NO UPLIFT
PXXTP LATERAL PILE WITH PINNED HEAD - WITH UPLIFT
PXXCF LATERAL PILE FIXED HEAD - NO UPLIFT
PXXTF LATERAL PILE FIXED HEAD - WITH UPLIFT

1 CAST-IN-PLACE PILE SCHEDULE

SCALE: NOT TO SCALE

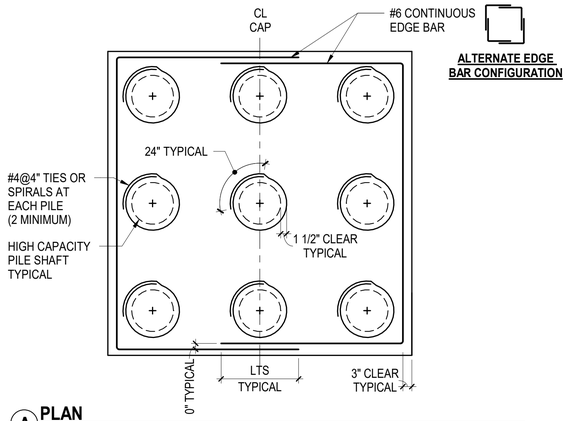
PILE CAP SCHEDULE

f'c = SEE GENERAL NOTES

PILE CAP MARK	PILE TYPE	H (IN)	L (IN)	W (IN)	S (IN)	REINFORCEMENT				REMARKS
						BOTTOM LONG BARS	BOTTOM SHORT BARS	TOP LONG BARS	TOP SHORT BARS	
PC8	P16C	XX	XX	XX	XX	X#X	X#X	-	-	
PC10-L	P16CF	XX	XX	XX	XX	X#X	X#X	X#X	X#X	
PC8-LU	P16TF	XX	XX	XX	XX	X#X	X#X	X#X	X#X	
PC3	P16C	XX	XX	XX	XX	(3)X#X@X" OC	-	-	-	SEE DETAIL FOR BAR LAYOUT

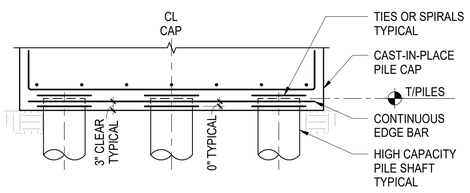
2 PILE CAP SCHEDULE

SCALE: NOT TO SCALE



ALTERNATE EDGE BAR CONFIGURATION

A PLAN



NOTES:

1. THIS DETAIL APPLIES ONLY AT PILE CAPS WITH HIGH CAPACITY PILES WITH A SERVICE CAPACITY OF 200 TONS OR GREATER
2. SEE TYPICAL CAST-IN-PLACE PILE CAP SECTION FOR ADDITIONAL INFORMATION
3. SEE PLAN, DETAILS, AND SCHEDULE FOR PILE CAP LAYOUT

B SECTION

3 TYPICAL PILE CAP DETAIL AT HIGH CAPACITY CAST-IN-PLACE PILES

NOT TO SCLAE

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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KEY PLAN:

△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
TYPICAL CAST-IN-PLACE-PILE DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
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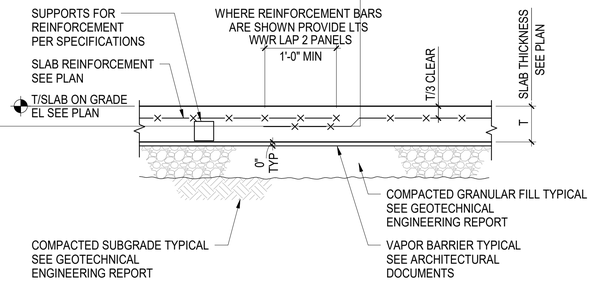
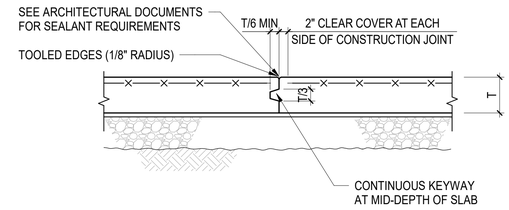
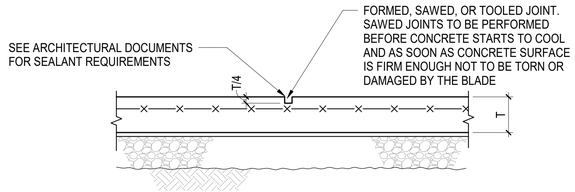
TT Project Number: K20063.00



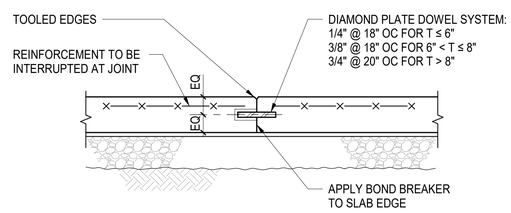
A SLAB ON GRADE



B CONSTRUCTION JOINT / CONTRACTION JOINT



C CONTRACTION JOINT



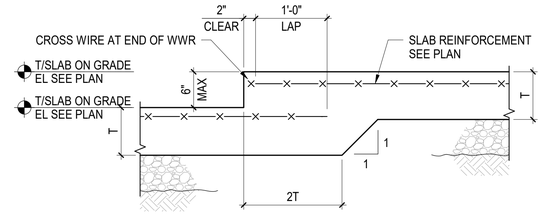
D DOWELED CONSTRUCTION JOINT (WHERE INDICATED ON PLAN)

NOTES:

1. WHERE NOT INDICATED ON DRAWINGS PROVIDE JOINTS AT COLUMN CENTERLINES AND BETWEEN COLUMN CENTERLINES WITH SPACING OF JOINTS NOT TO EXCEED 36 TIMES THE SLAB THICKNESS (T-INCHES)

1 TYPICAL SLAB ON GRADE DETAILS

NOT TO SCALE

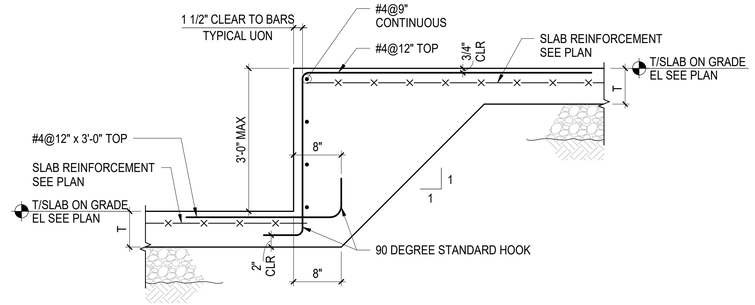


NOTES:

1. SEE TYPICAL SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION

2 TYPICAL SLAB ON GRADE STEP 6" MAXIMUM

NOT TO SCALE

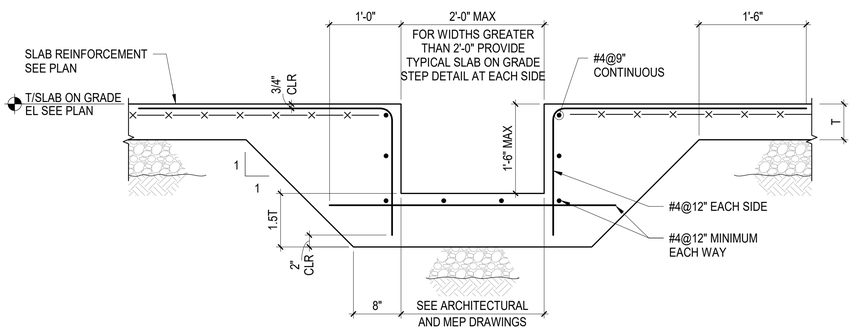


NOTES:

1. SEE TYPICAL SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION

3 TYPICAL SLAB ON GRADE STEP OVER 6" TO 3'-0"

NOT TO SCALE

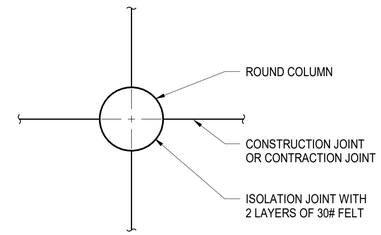


NOTES:

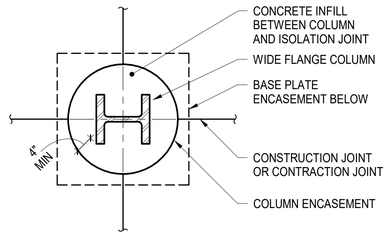
1. COORDINATE WITH ARCHITECTURE AND MEP DRAWINGS FOR ADDITIONAL INFORMATION AND EMBEDMENTS
2. SEE TYPICAL SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION

4 TYPICAL TRENCH AT SLAB ON GRADE

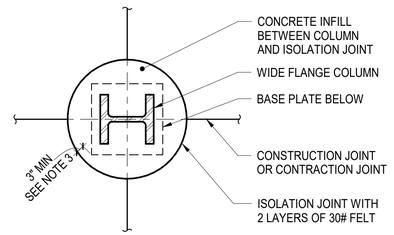
NOT TO SCALE



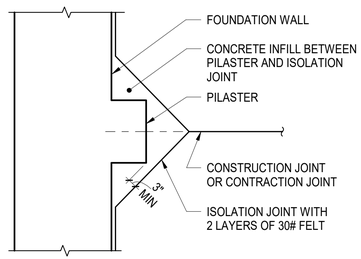
A ROUND COLUMN



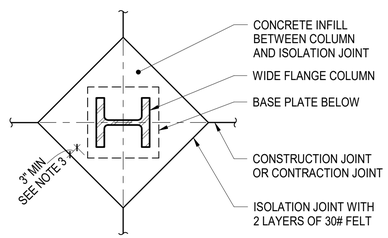
B CONCRETE ENCASE COLUMN AND BASE PLATE WHERE INDICATED ON PLAN



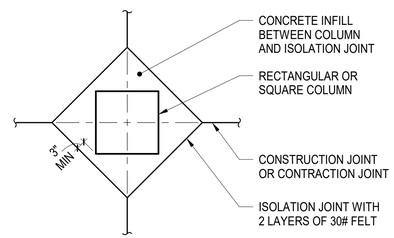
C TYPICAL BASE PLATE WITHIN CONCRETE INFILL (ROUND ISOLATION JOINT OPTION)



D PILASTER



E TYPICAL BASE PLATE WITHIN CONCRETE INFILL UNLESS OTHERWISE NOTED



F RECTANGULAR OR SQUARE COLUMN

NOTES:

1. SEE TYPICAL SLAB ON GRADE DETAILS FOR JOINT SPACING REQUIREMENTS
2. CONCRETE INFILL BETWEEN COLUMN AND ISOLATION JOINT TO BE POURED AFTER ALL THE SLABS SUPPORTED BY THE COLUMN HAVE BEEN POURED
3. PROVIDE ADDITIONAL CLEARANCE AS REQUIRED TO ENSURE 3" MINIMUM CONCRETE COVER OVER BASE PLATE AND ANCHOR RODS BELOW.

5 TYPICAL ISOLATION JOINT DETAILS AT SLAB ON GRADE

NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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PROJECT NORTH:

DRAWING TITLE
TYPICAL SLAB ON GRADE DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S2-400

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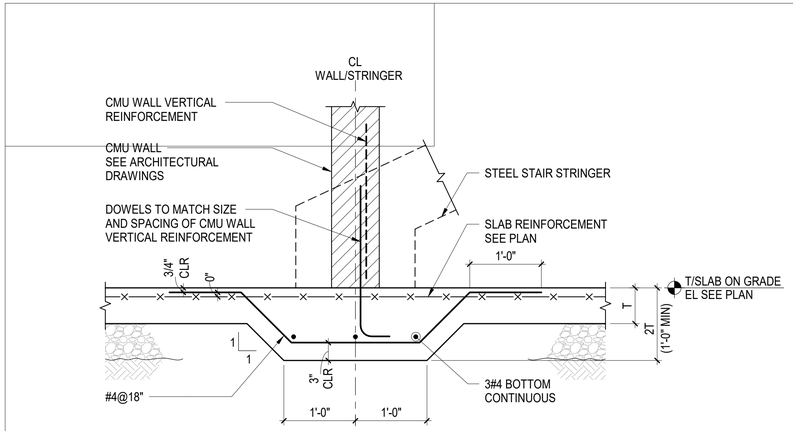
TT Project Number: K20063.00

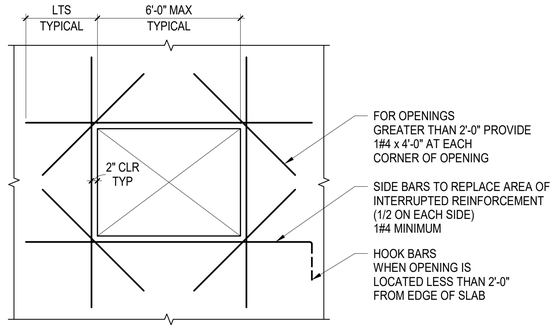


NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALLS AND STAIRS
2. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION

1 TYPICAL THICKENED SLAB ON GRADE AT NON-BEARING CMU WALL OR STAIR STRINGER

NOT TO SCALE



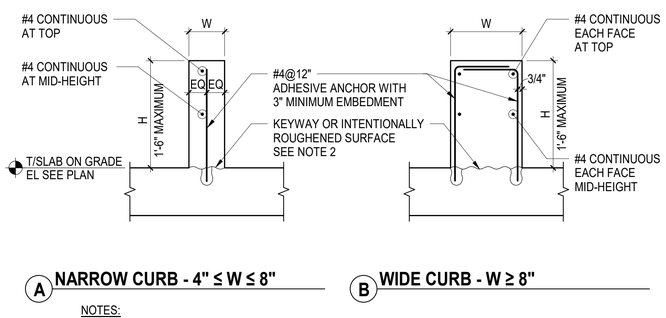
A PLAN

NOTES:

1. FOR SIZE OF OPENINGS SEE ARCHITECTURAL DRAWINGS
2. ADDITIONAL REINFORCEMENT IS NOT REQUIRED AT OPENINGS THAT DO NOT INTERRUPT THE TYPICAL REINFORCEMENT

2 TYPICAL SLAB ON GRADE DETAIL OF ADDITIONAL REINFORCEMENT AT ANY OPENINGS OR AT STEP GREATER THAN 6" UP TO 3'-0"

NOT TO SCALE



A NARROW CURB - 4" ≤ W ≤ 8"

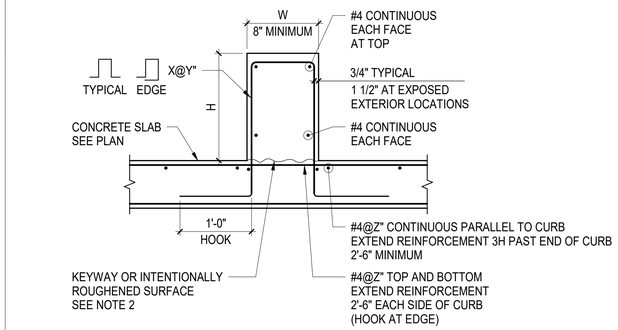
B WIDE CURB - W ≥ 8"

NOTES:

1. FOR SIZE AND LOCATION SEE ARCHITECTURAL, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE, CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE AT CURBS FOR NON-STRUCTURAL ELEMENTS SUCH AS SKYLIGHTS, INTERIOR PARTITIONS, AND INTERIOR RAILINGS
4. SEE ARCHITECTURAL DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
5. CORING AND/OR CUTTING OF REINFORCEMENT IS NOT PERMITTED USE EMBED PLATES FOR ATTACHMENT TO CURBS

3 TYPICAL CURB DETAILS AT INTERIOR

NOT TO SCALE



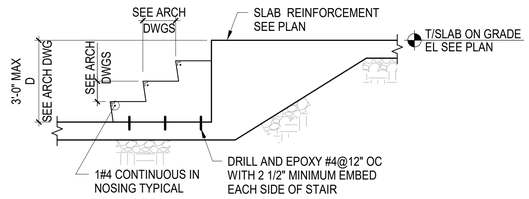
CURB DIMENSION AND REINFORCEMENT SCHEDULE			
W	H	X@Y"	Z"

NOTES:

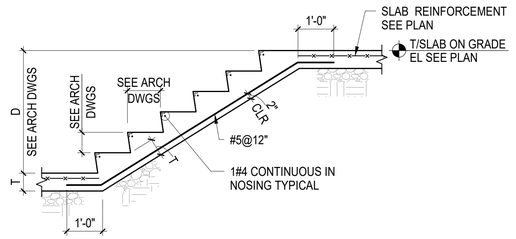
1. FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE, CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE TO CURBS SUPPORTING EXTERIOR WALLS SEE ADDITIONAL DETAILS FOR CURTAIN WALL SUPPORT
4. SEE ARCHITECTURAL DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
5. CORING AND/OR CUTTING OF REINFORCEMENT IS NOT PERMITTED USE EMBED PLATES FOR ATTACHMENT TO CURBS

4 TYPICAL CURB DETAIL AT EXTERIOR

SCALE: NOT TO SCALE



B D UP TO 3'-0"



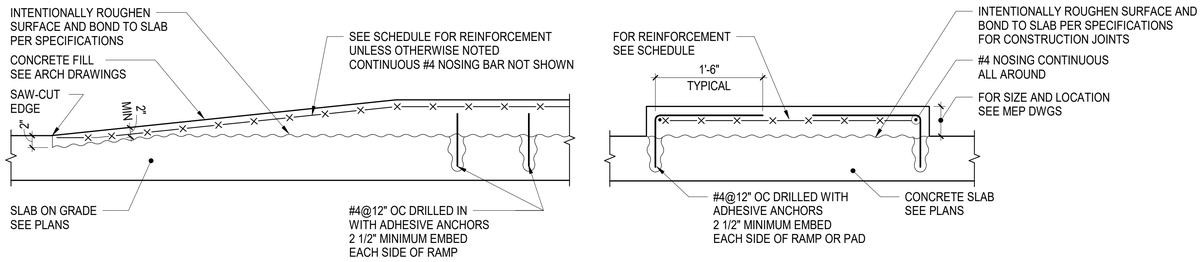
A D OF ANY HEIGHT

NOTES:

1. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS

5 TYPICAL INTERIOR STAIR DETAIL AT SLAB ON GRADE

NOT TO SCALE



A DETAIL AT RAMP

B SECTION AT RAMP OR PAD

NOTES:

1. THIS DETAIL IS NOT APPLICABLE TO GENERAL RAISED SLAB AREA HIGHER THAN 4" OTHER THAN MECHANICAL PADS AND HOUSEKEEPING PADS

THICKNESS	REINFORCEMENT
≤ 3"	WWR 6x6 - W2.9xW2.9
≤ 4"	WWR 6x6 - W4.0xW4.0
≤ 6"	#4 @ 12" TOP EACH WAY
≤ 12"	#4 @ 12" TOP & BOTTOM EACH WAY

6 TYPICAL DETAIL OF CONCRETE FILL HOUSEKEEPING PAD / MECHANICAL PAD / RAMP

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
TYPICAL SLAB ON GRADE DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

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S2-401

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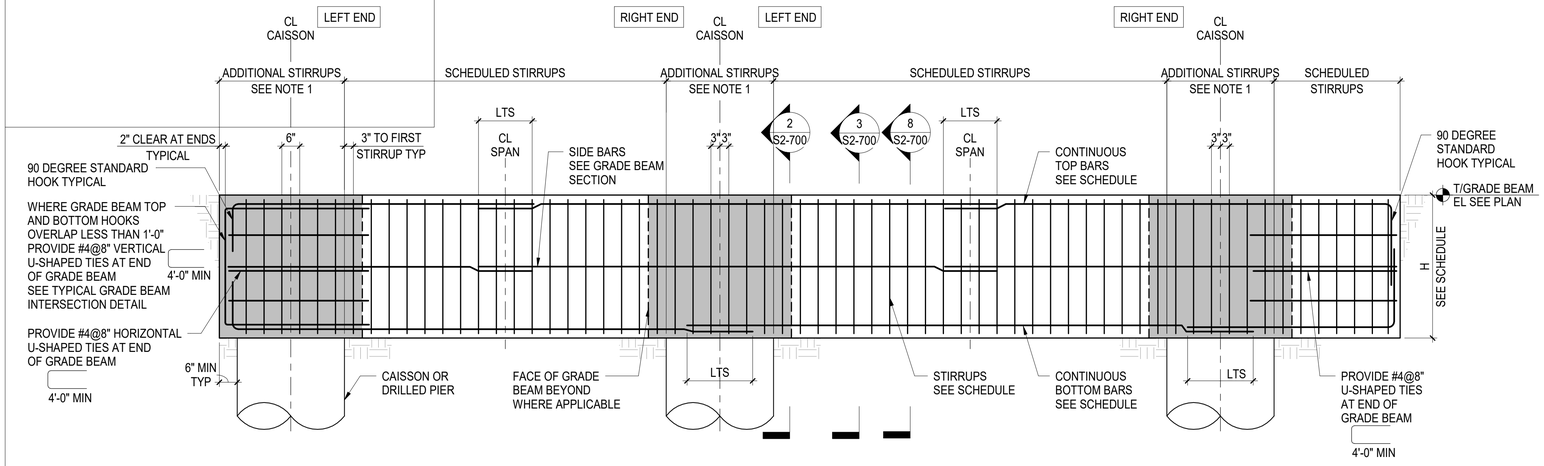
TT Project Number: K20063.00

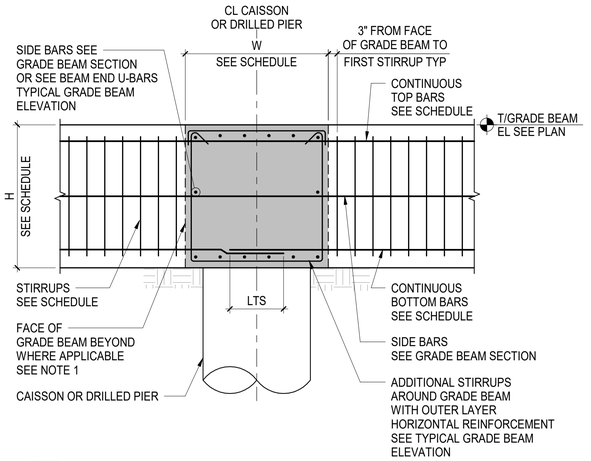


NOTES:

1. PROVIDE #4@6" TYPE 2A STIRRUPS OVER CAISSON SUPPORT TYPICAL

1 TYPICAL GRADE BEAM ELEVATION

NOT TO SCALE

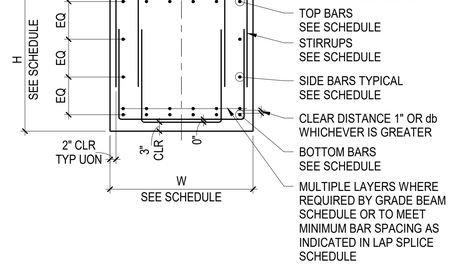


NOTES:

1. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT FACE OF GRADE BEAMS WITHOUT PRIOR WRITTEN APPROVAL FROM SER
2. SLAB ON GRADE NOT SHOWN FOR CLARITY

2 TYPICAL GRADE BEAM INTERIOR INTERSECTION DETAIL

NOT TO SCALE

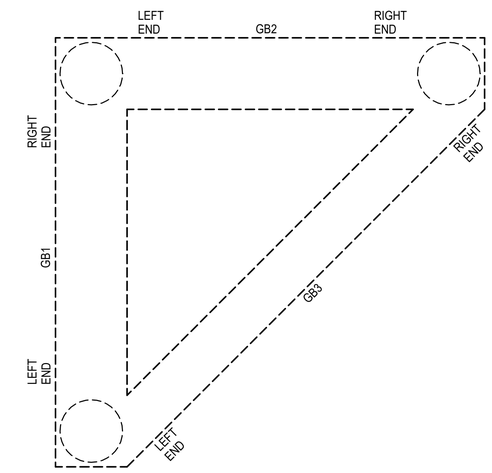


NOTES:

1. IF H IS GREATER THAN 24" PROVIDE SIDE BARS #5@10" MINIMUM UON IN SCHEDULE

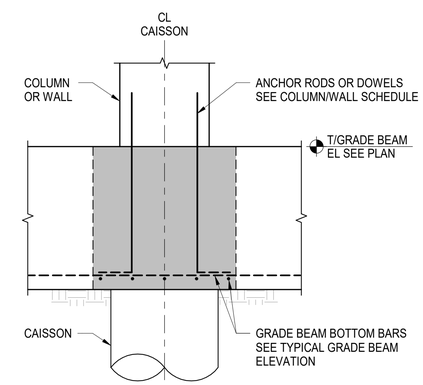
3 GRADE BEAM SECTION - TYPICAL

NOT TO SCALE



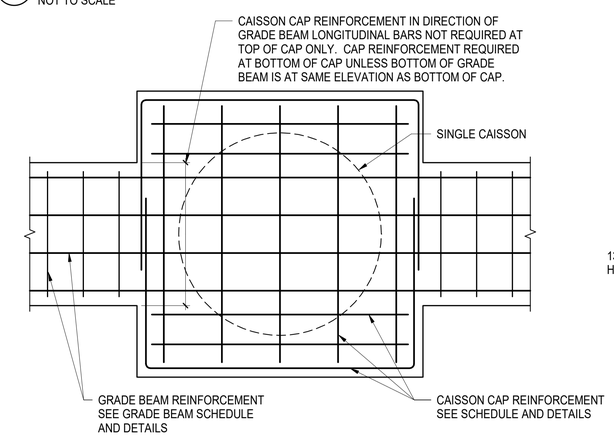
4 GRADE BEAM ORIENTATION KEY PLAN

NOT TO SCALE



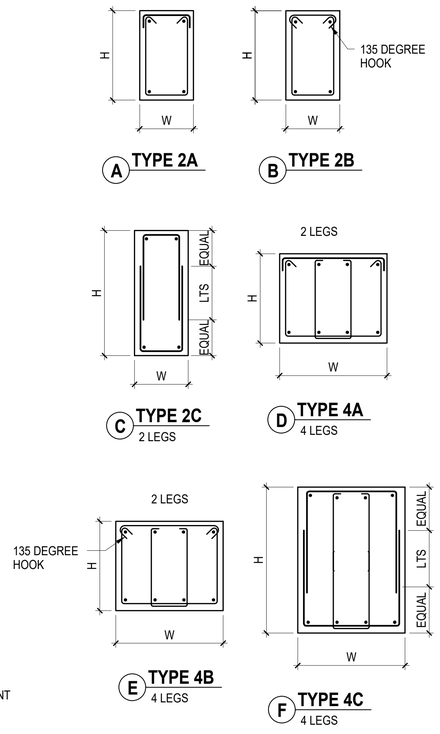
5 TYPICAL GRADE BEAM DETAIL AT COLUMN / WALL INTERSECTION

NOT TO SCALE



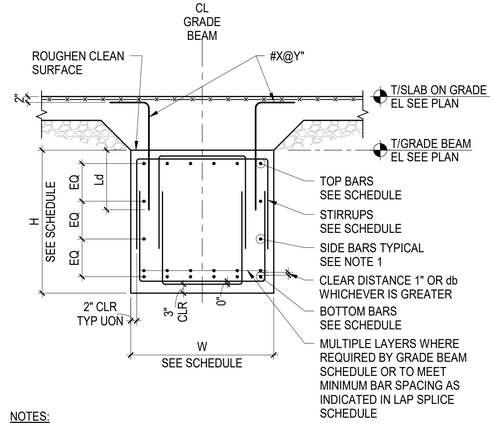
6 CAISSON CAP AT GRADE BEAM - PLAN

NOT TO SCALE



7 GRADE BEAM STIRRUP TYPES

NOT TO SCALE



NOTES:

1. IF H IS GREATER THAN 24" PROVIDE SIDE BARS #5@10" MINIMUM UON IN SCHEDULE

8 GRADE BEAM SECTION - BASE SHEAR TRANSFER CONDITION

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Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

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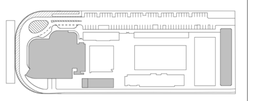
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
TYPICAL GRADE BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S2-700

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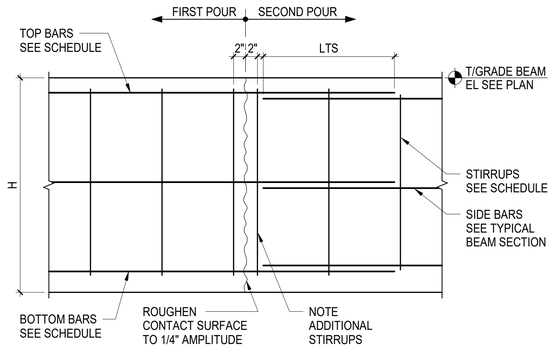
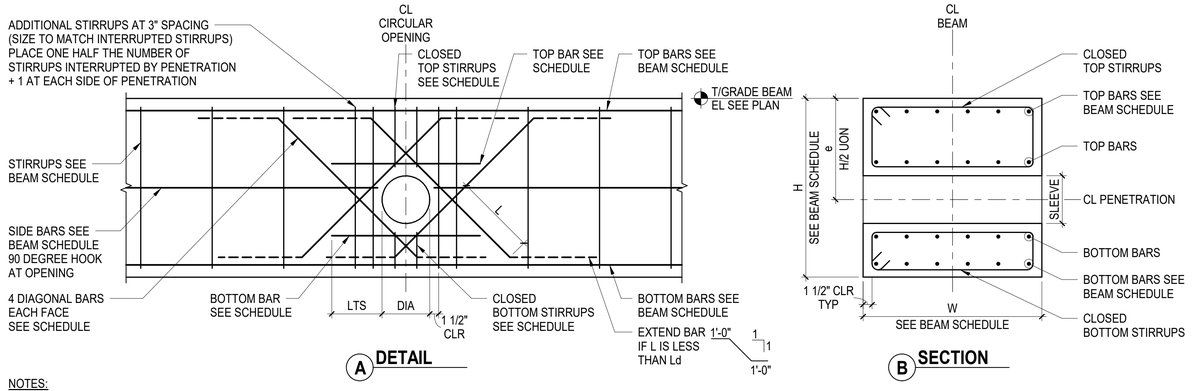


NOTES:

1. CONTRACTOR SHALL SUBMIT CONCRETE CONSTRUCTION JOINT LAYOUT FOR REVIEW AND ACTION (REFER TO GENERAL NOTES AND SPECIFICATIONS) PRIOR TO REINFORCEMENT SUBMITTAL
2. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM SER

1 TYPICAL GRADE BEAM CONSTRUCTION JOINT - ELEVATION

SCALE: NOT TO SCALE



NOTES:

1. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONALS
   NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE DESIGN PROFESSIONALS
2. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH GRADE BEAM PENETRATION SCHEDULE
3. THE MINIMUM CLEAR SPACE BETWEEN TWO ADJACENT PENETRATIONS SHALL BE GREATER OF THE LARGEST PENETRATION DIMENSION OR TWO TIMES THE BEAM DEPTH
4. THE MINIMUM CLEAR DIMENSION BETWEEN THE EDGE OF A PENETRATION AND THE FACE OF SUPPORT SHALL BE THE DEPTH OF THE BEAM
5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS. NOTIFY THE SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND ACTION
6. NO ADDITIONAL REINFORCEMENT IS REQUIRED FOR OPENINGS WITH 4" DIAMETER OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTED AND MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR STIRRUPS OR SIDE BARS.

2 TYPICAL GRADE BEAM PENETRATION DETAIL

NOT TO SCALE

GRADE BEAM SCHEDULE

f'c = SEE GENERAL NOTES

GRADE BEAM MARK	SIZE		REINFORCEMENT							REMARKS
	W (IN)	H (IN)	LEFT END TOP BARS	RIGHT END TOP BARS	BOTTOM BARS	SIDE BARS EACH FACE SEE NOTE 3	STIRRUPS TYPE	STIRRUPS SIZE	STIRRUPS SPACING EACH END	
GB1	24	36	7#9	7#9	7#9	6#8	2A	- #4	8"	
GB2										

NOTES:

1. SEE PLAN FOR TOP OF GRADE BEAM ELEVATION.
2. LEFT END AND RIGHT END OF BEAM ARE DEFINED ON BEAM ORIENTATION KEY PLAN.
3. SEE TYPICAL GRADE BEAM SECTION DETAIL WHERE NO SIDE BARS ARE INDICATED.

REINFORCEMENT LEGEND:

NUMBER OF BARS — BAR SIZE — BAR LENGTH

3#9x7'-2"

3 GRADE BEAM SCHEDULE

GRADE BEAM PENETRATION SCHEDULE

MARK	MAX SIZE		REINFORCEMENT				DIAGONAL BARS AT CIRCULAR PENETRATION	REMARKS
	DIAMETER (IN)	e (IN)	TOP BARS	BOTTOM BARS	TOP STIRRUPS	BOTTOM STIRRUPS		
P1	8	H/2	6#5	6#5	#4@3"	#4@3"	#5	-
P2	-	H/2	6#5	6#5	#4@3"	#4@3"		

4 GRADE BEAM PENETRATION SCHEDULE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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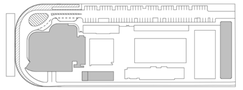

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TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
TYPICAL GRADE BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S2-701

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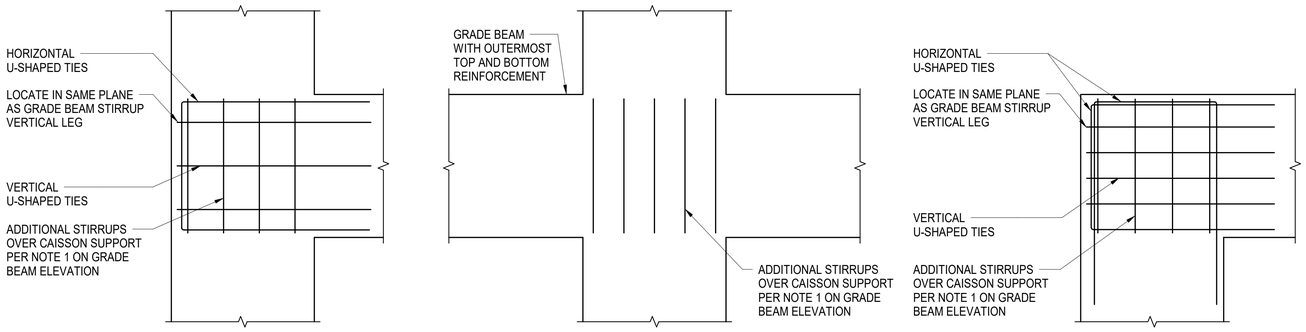

A **GRADE BEAM - T-INTERSECTION**

B **GRADE BEAM - INTERIOR INTERSECTION**

C **GRADE BEAM - CORNER CONDITION**

NOTES:

1. GRADE BEAM LONGITUDINAL REINFORCEMENT AND STIRRUPS NOT SHOWN FOR CLARITY
2. FOR U-SHAPED TIES SEE TYPICAL GRADE BEAM ELEVATION

1 TYPICAL GRADE BEAM INTERSECTION PLAN DETAILS

SCALE: NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
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1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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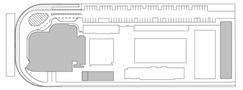
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL GRADE BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S2-702

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NOTES:

1. FOR TOP OF STRUCTURAL SLAB ELEVATIONS SEE PLANS
2. SEE TYPICAL SHEAR WALL REINFORCEMENT ARRANGEMENT - PLAN FOR VERTICAL AND HORIZONTAL BAR ARRANGEMENT INFORMATION
3. PROVIDE TENSION LAP SPLICE AT ALL VERTICAL BARS AT BOTTOM OF SHEAR WALLS AND WHERE DESIGNATED AS TENSION (T)
   SEE SHEAR WALL LAP SPLICE SCHEDULE
4. ALL SHEAR WALL HORIZONTAL BARS SHALL BE LAPPED USING THE TENSION LAP SPLICE LENGTHS
   SEE SHEAR WALL LAP SPLICE SCHEDULE
5. SHEAR WALL PENETRATIONS ARE SHOWN ON THE SHEAR WALL ELEVATIONS
   ADDITIONAL PENETRATIONS REQUIRE PRIOR WRITTEN APPROVAL BY THE SER
6. "NONE" INDICATES NO TIES ARE REQUIRED
   "TIED" INDICATES TIES AS SHOWN IN TIED SHEAR WALL ZONES DETAIL

1 SHEAR WALL NOTES

NOT TO SCALE

SHEAR WALL CONSTRUCTION TOLERANCES NOTES:

1. WALL THICKNESS — -1/4" TO +3/8"
2. VARIATIONS FROM PLUMB:
   A. IN ANY STORY — ±1/2"
   B. ENTIRE HEIGHT — ±1"
3. VARIATION IN LOCATION OF EMBEDDED PLATES:
   A. HORIZONTAL AND VERTICAL — ±1 1/2"
   B. ALIGNMENT AND PLUMB — +1/4" IN 12"
4. VARIATION IN SIZE OF SLEEVES — ±1/2" TYPICAL
5. DOOR BLOCKOUTS:
   A. SIDE JAMBS — +1" PLUS DRAFT
   B. HEADS — +1" PLUS DRAFT
6. OTHER BLOCKOUTS — +1", -1/4" PLUS DRAFT

2 SHEAR WALL CONSTRUCTION TOLERANCE NOTES

NOT TO SCALE

CONCRETE SHEAR WALL SCHEDULE

CONCRETE STRENGTH f'c (PSI)	SHEAR WALL MARK / FLOOR	GRID A-2 / B-2 ZONE 1 VERT BAR EACH FACE	HORZ BARS EACH FACE	TIES	ZONE 2 VERT BAR EACH FACE	HORZ BARS EACH FACE	TIES	GRID C-4 / D-5 ZONE 3 VERT BAR EACH FACE	HORZ BARS EACH FACE	TIES	ZONE 4 VERT BAR EACH FACE	HORZ BARS EACH FACE	TIES	ZONE 5 VERT BAR EACH FACE	HORZ BARS EACH FACE	TIES	SHEAR WALL MARK / FLOOR
	ROOF																ROOF
YYYY	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED				#X@Y"	#X@Y"	NONE							LEVEL XX
XXXX	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	LEVEL XX	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	LEVEL XX
	GROUND	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	GROUND
	BASEMENT	#X@Y"	#X@Y"	TIED	Y-#X T	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	#X@Y"	#X@Y"	TIED	Y-#X	#X@Y"	TIED	BASEMENT
	DOWELS	#X@Y" T			Y-#X T			#X@Y" T			#X@Y" T			Y-#X T			DOWELS
	REMARKS																REMARKS

3 SHEAR WALL SCHEDULE

NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

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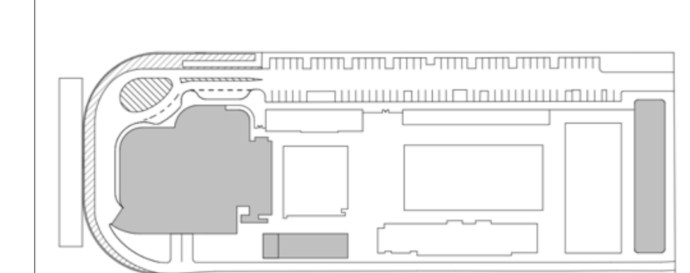

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PROJECT NORTH:

DRAWING TITLE
CONCRETE SHEAR WALL SCHEDULE AND NOTES

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S3-003

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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2312 S ANDREWS AVE
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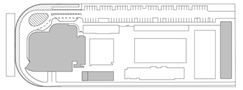

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Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
SHEARWALL PLANS

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S3-100

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

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DEERFIELD BEACH, FL 33442
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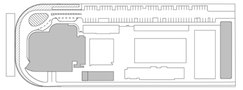

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PROJECT NORTH:

DRAWING TITLE
SHEARWALL PLANS

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S3-101

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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

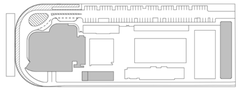
CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT

ISHOF

1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE

SHEARWALL PLANS

PROJECT NUMBER: 010326.000

SCALE:

SHEET

S3-102

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Capital Group P3
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Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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PROJECT
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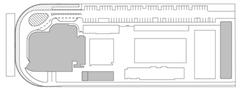

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PROJECT NORTH:

DRAWING TITLE
SHEARWALL PLANS

PROJECT NUMBER: 010326.000

SCALE:

SHEET
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Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
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1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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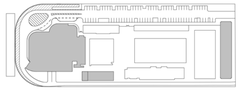

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PROJECT NORTH:

DRAWING TITLE
SHEARWALL PLANS

PROJECT NUMBER: 010326.000

SCALE:

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TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
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2312 S ANDREWS AVE
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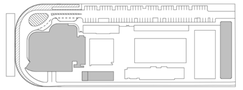

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PROJECT NORTH:

DRAWING TITLE
SHEARWALL ELEVATIONS

PROJECT NUMBER: 010326.000

SCALE:

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S3-110

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ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
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2312 S ANDREWS AVE
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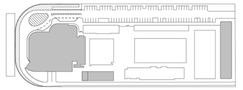

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PROJECT NORTH:

DRAWING TITLE
SHEARWALL ELEVATIONS

PROJECT NUMBER: 010326.000

SCALE:

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Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

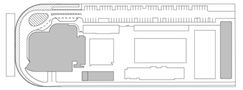
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
SHEARWALL ELEVATIONS

PROJECT NUMBER: 010326.000

SCALE:

SHEET
S3-112

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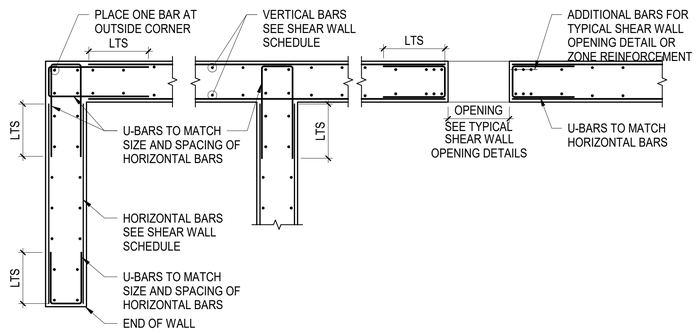
TT Project Number: K20063.00

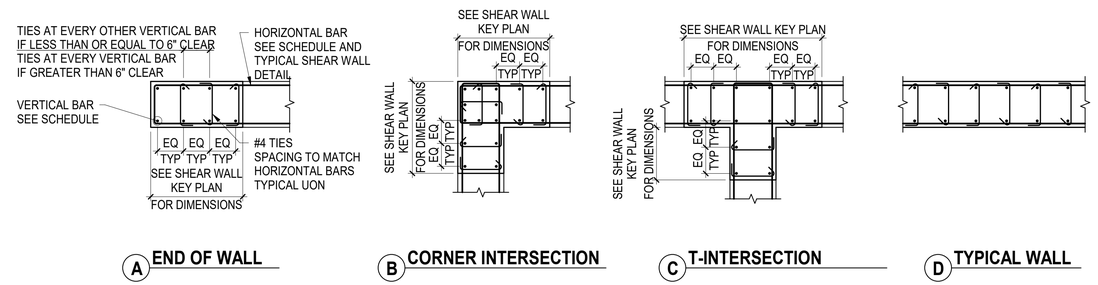


NOTES:

1. WHERE SHEAR WALL ZONE IS DENOTED AS "TIED" SEE TIED SHEAR WALL ZONES DETAIL

1 TYPICAL SHEAR WALL REINFORCEMENT ARRANGEMENT - PLAN

NOT TO SCALE



A END OF WALL

B CORNER INTERSECTION

C T-INTERSECTION

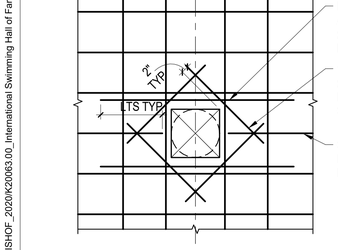
D TYPICAL WALL

NOTES:

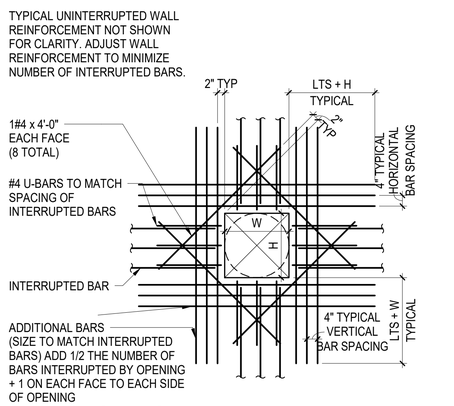
1. FOR INFORMATION NOT SHOWN, SEE END OF WALL DETAIL
2. TIES WITH 135 AND 90 DEGREE HOOKS TO ALTERNATE IN PLAN AND IN ELEVATION

2 TIED SHEAR WALL ZONES

NOT TO SCALE



A OPENING LESS THAN 10"



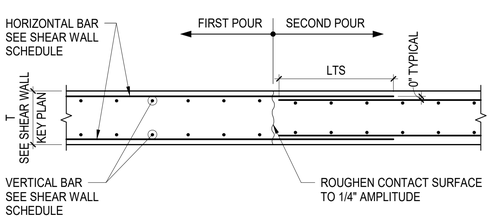
B OPENING 10" TO 30"

NOTES:

1. SHEAR WALL PENETRATIONS ARE SHOWN ON THE SHEAR WALL ELEVATIONS
   ADDITIONAL PENETRATIONS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY THE SER
2. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, CONTRACTOR TO SUBMIT LOCATIONS AND SPACING TO SER FOR WRITTEN APPROVAL

5 TYPICAL SHEAR WALL OPENING DETAILS

NOT TO SCALE

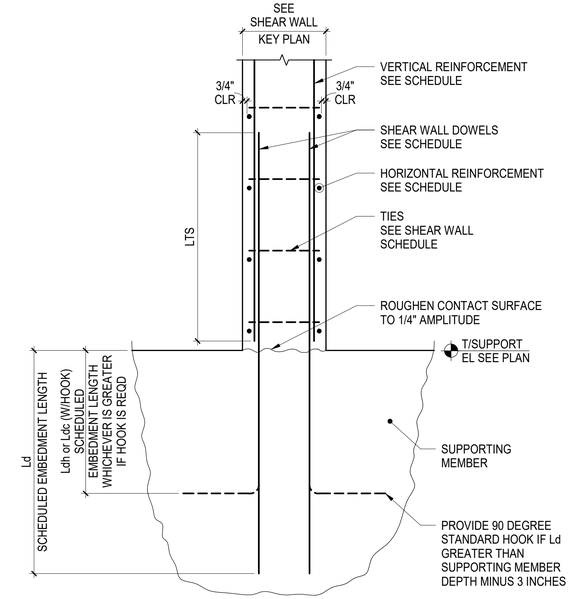


NOTES:

1. VERTICAL CONSTRUCTION JOINTS AS INDICATED ON PLAN OR GENERAL NOTES
   ADDITIONAL JOINTS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY SER

7 TYPICAL SHEAR WALL CONSTRUCTION JOINT

NOT TO SCALE



8 TYPICAL BOTTOM OF SHEAR WALL

NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
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KEY PLAN:

△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE SHEAR WALL DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S3-300

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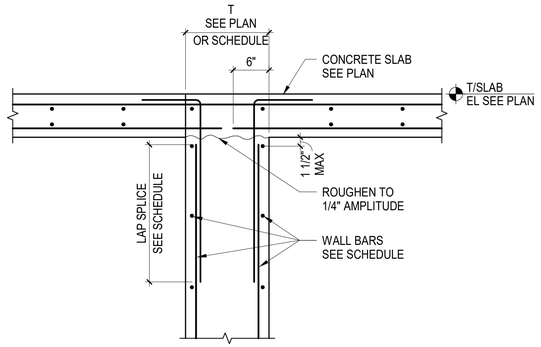
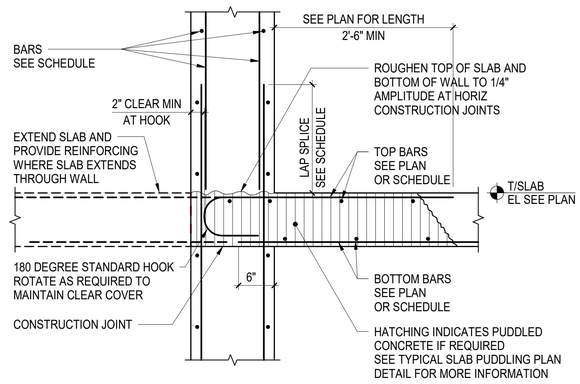
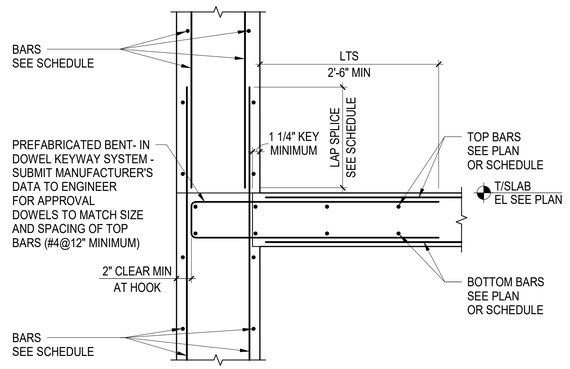


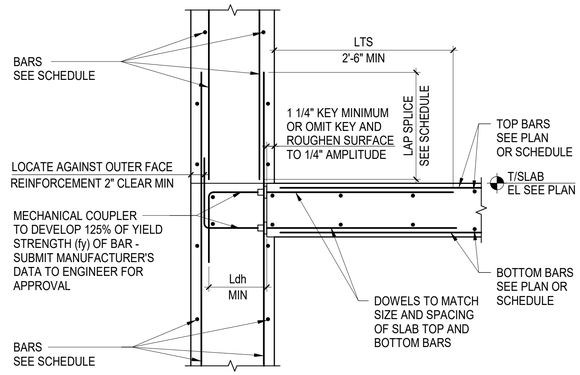
1 TYPICAL TOP OF WALL AND SHEAR WALL WITH CONCRETE SLAB
NOT TO SCALE



A OPTION A - WALL POURED TO UNDERSIDE OF SLAB



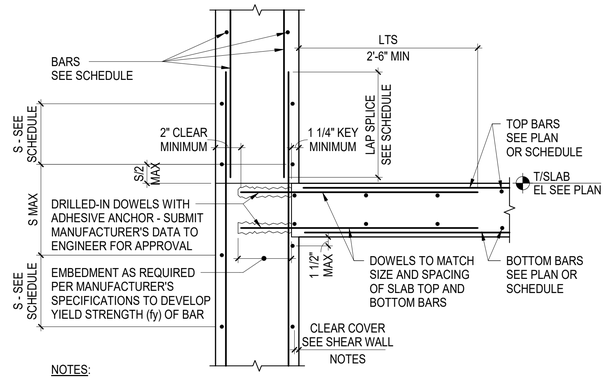
B OPTION B - PREFABRICATED DOWELS AND KEYWAY
(IN WALL POURED MONOLITHIC)



C OPTION C - MECHANICAL COUPLERS
(IN WALL POURED MONOLITHIC)

NOTES:

1. FOR OPTIONS B, C, AND D MIRROR ALL DOWELS AND KEY FOR SLAB ON OPPOSITE SIDE



NOTES:

1. OPTION D IS NOT TO BE USED WITHOUT PRIOR WRITTEN APPROVAL BY THE SER
   THE CONTRACTOR'S SUBMITTAL MUST CONSIDER AT A MINIMUM THE FOLLOWING:
   A. EMBEDMENT TO CONSIDER BAR SPACING AND EDGE CONDITION
   B. WALL REINFORCEMENT CONGESTION INCLUDING LAPS
   C. WALL THICKNESS TO DEVELOP REINFORCEMENT
   D. DESCRIPTION OF QUALITY CONTROL PROGRAM TO DEMONSTRATE ANCHORS ACHIEVE FULL STRENGTH OF DOWELS
   E. ANCHORS SHALL BE PULL TESTED FOLLOWING ACI STATISTICAL SAMPLING METHOD FOR TESTING FREQUENCY

D OPTION D - DRILLED IN DOWELS (SLAB ONLY)
(IN WALL POURED MONOLITHIC)

2 TYPICAL CONCRETE SLAB OR BEAM SUPPORT DETAILS AT WALL AND SHEAR WALL
NOT TO SCALE

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Capital Group P3
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Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

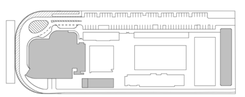
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

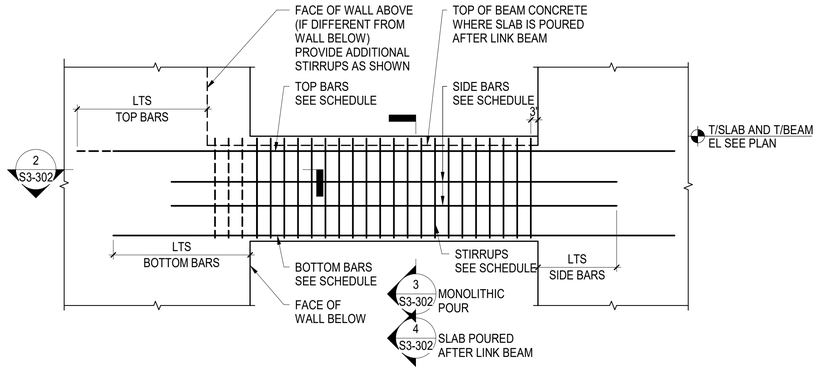
DRAWING TITLE
TYPICAL CONCRETE SHEAR WALL DETAILS

PROJECT NUMBER: 010326.000
DATE: 07/25/22
SCALE: NOT TO SCALE

SHEET
S3-301

Thornton Tomasetti

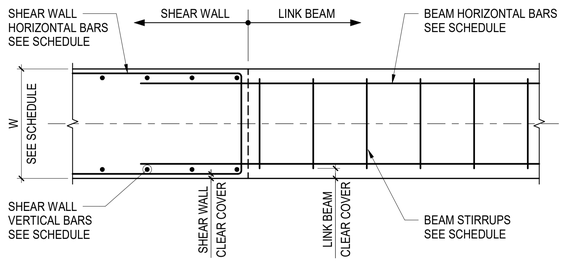
8/22/2022 6:55:07 PM • Sheet Number: S3-302
TT Project Number: K20063.00



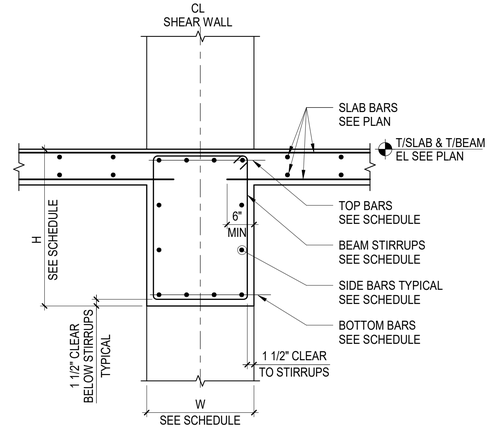
NOTES:

1. SHEAR WALL CONSTRUCTION JOINT NOT PERMITTED WITHIN DEPTH OF LINK BEAM
2. SEE TYPICAL CONCRETE BEAM WITH PENETRATION DETAILS
3. SEE ELEVATIONS FOR SIZE AND LOCATION OF PENETRATIONS

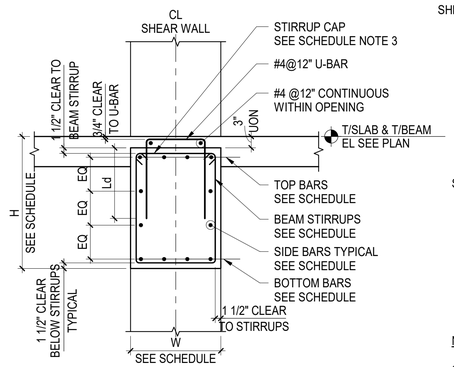
1 TYPICAL LINK BEAM ELEVATION
NOT TO SCALE



2 TYPICAL LINK BEAM PLAN
NOT TO SCALE



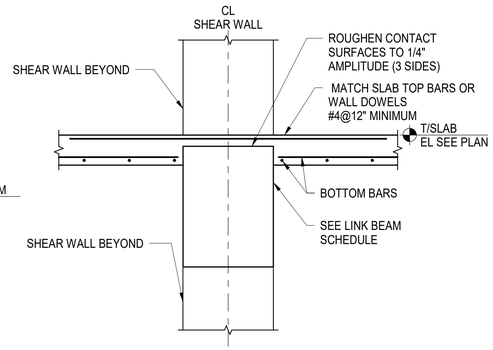
3 TYPICAL LINK BEAM SECTION SLAB POURED MONOLITHIC WITH LINK BEAM
NOT TO SCALE



NOTES:

1. SEE TYPICAL SLAB DETAIL AT LINK BEAM FOR INFORMATION NOT SHOWN

4 TYPICAL LINK BEAM SECTION SLAB POURED AFTER LINK BEAM
NOT TO SCALE



NOTES:

1. SEE TYPICAL LINK BEAM SECTION - SLAB POURED AFTER LINK BEAM FOR ADDITIONAL INFORMATION NOT SHOWN
2. DETAIL APPLIES ONLY FOR SLABS SPANNING PARALLEL TO WALL

5 TYPICAL SLAB DETAIL AT LINK BEAM SUPPORT
NOT TO SCALE

LINK BEAM SCHEDULE

f'c = SEE SHEAR WALL

LINK BEAM MARK	SIZE		REINFORCEMENT			STIRRUPS			REMARKS
	W (IN)	H (IN)	TOP BARS	BOTTOM BARS	SIDE BARS EACH SIDE	TYPE	SIZE #	SPACING	
LB1	12	24	4#6	4#6	-	2	4	6"	-

NOTES:

1. SEE LINK BEAM SECTIONS FOR TOP OF BEAM REINFORCEMENT ELEVATIONS
2. SEE TYPICAL CONCRETE BEAM DETAILS FOR STIRRUP TYPE
3. USE 135 DEGREE HOOKS FOR ALL LINK BEAM STIRRUPS UON. AT STIRRUP CAP USE 135 AND 90 HOOKS ON ALTERNATING ENDS
4. BEAM PENETRATIONS ARE NOT PERMITTED IN LINK BEAMS WITHOUT THE REVIEW AND WRITTEN APPROVAL OF THE SER

6 LINK BEAM SCHEDULE
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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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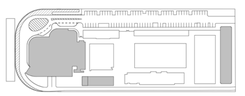

△	DESCRIPTION	DATE

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TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE SHEAR WALL LINK BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S3-302

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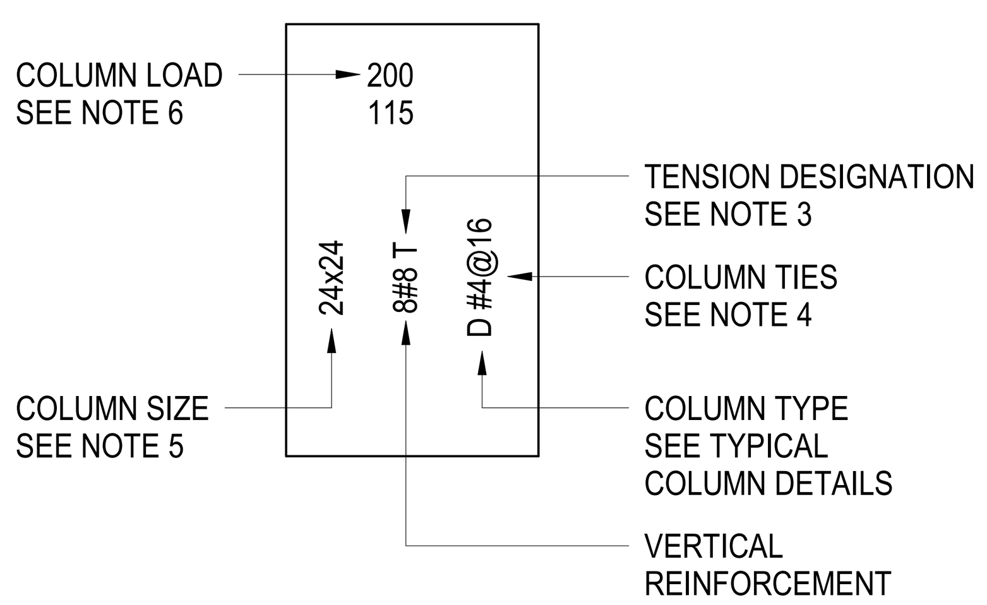
NOTES:

1. FOR TOP OF STRUCTURAL SLAB ELEVATIONS SEE PLANS
2. PROVIDE COMPRESSION LAP SPLICE AT ALL VERTICAL BARS UNLESS OTHERWISE NOTED
   SEE COLUMN LAP SPLICE SCHEDULE FOR SPLICE LENGTH
3. AT COLUMNS DESIGNATED AS TENSION (T) PROVIDE TENSION LAP SPLICE AT ALL VERTICAL BARS
   SEE COLUMN LAP SPLICE LENGTH SCHEDULE FOR SPLICE LENGTH
4. PROVIDE #4@12" TIES UNLESS OTHERWISE NOTED
   TIE SPACING IS NOT TO EXCEED LEAST COLUMN DIMENSION OR 16 VERTICAL BAR DIAMETERS
5. COLUMN SIZES SHOWN ARE PLAN DIMENSIONS IN INCHES
   FOR COLUMN ORIENTATION SEE PLAN
6. COLUMN LOADS SHOWN ON SCHEDULE ARE AS FOLLOWS:

   XXX = SERVICE AXIAL DEAD LOAD IN KIPS x 1.2
   XXX = SERVICE AXIAL LIVE LOAD IN KIPS x 1.6
7. WHERE SCHEDULED INFORMATION IS NOT SHOWN SEE FLOOR BELOW

COLUMN LEGEND:



1 CONCRETE COLUMN NOTES AND LEGEND

NOT TO SCALE

CONCRETE STRENGTH	COLUMN MARK / FLOOR	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	COLUMN MARK / FLOOR
8000 PSI	ROOF																														
	6th FLOOR	XXX XXX 30X30 12 #8 D	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	6th FLOOR
	5th FLOOR	XXX XXX 30X30 12 #8 D	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	5th FLOOR
	4th FLOOR	XXX XXX 30X30 12 #8 D	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	4th FLOOR
	3rd FLOOR	XXX XXX 30X30 12 #8 D	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	3rd FLOOR
	2nd FLOOR	XXX XXX 30X30 12 #8 D	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	2nd FLOOR
	1st FLOOR	XXX XXX 30X30 12 #8 D	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	XXX XXX BXN Y #X X	1st FLOOR
	DOWELS	8-#8	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	Y-#X	DOWELS
CONCRETE STRENGTH	COLUMN MARK	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	X-XX	COLUMN MARK

2 CONCRETE COLUMN SCHEDULE

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
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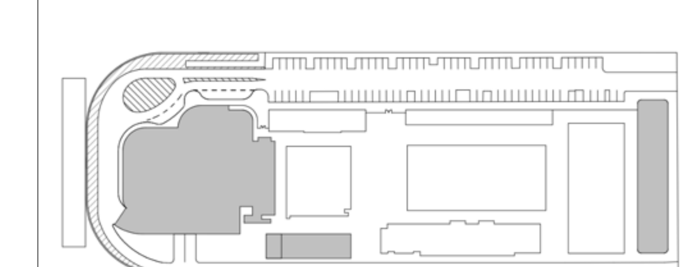
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
CONCRETE COLUMN SCHEDULE

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-001

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TT Project Number: K20063.00
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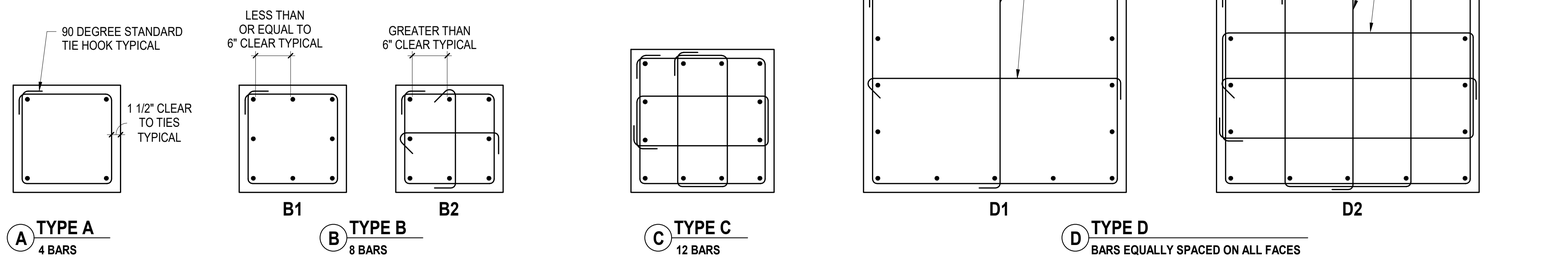


A TYPE A — 4 BARS

B TYPE B — 8 BARS

C TYPE C — 12 BARS

D TYPE D — BARS EQUALLY SPACED ON ALL FACES

E TYPE E — 6 BARS

F TYPE F — 8 BARS

G TYPE G — BARS EQUALLY SPACED ON 2 FACES

H TYPE H — ROUND COLUMN WITH EQUAL BAR SPACING

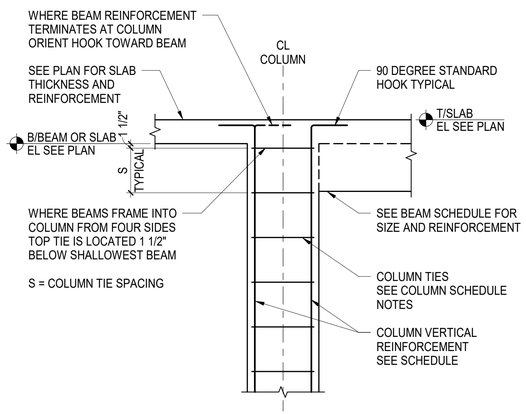
J ACCEPTABLE ALTERNATES TO CLOSED INTERIOR TIES

NOTES:

1. FOR ALL TYPES STAGGER ALL TIE HOOKS
2. FOR TYPE **D** TOTAL NUMBER OF BARS SHOULD BE SPACED AROUND PERIMETER IN SUCH A WAY AS TO ACHIEVE APPROXIMATELY EQUAL SPACING
3. FOR TYPE **G** TOTAL NUMBER OF BARS SHOULD BE SPACED AROUND PERIMETER IN SUCH A WAY AS TO ACHIEVE EQUAL SPACING ON THE TWO LONG SIDES

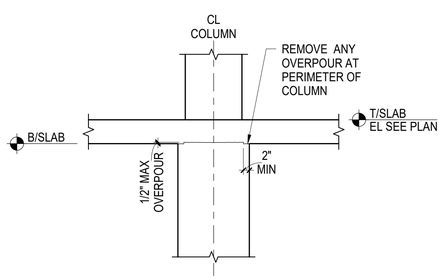
1 COLUMN TYPES - BAR ARRANGEMENT

NOT TO SCALE



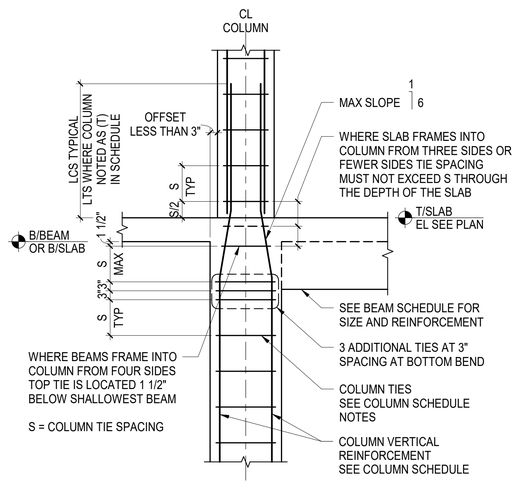
5 TYPICAL TOP OF COLUMN

NOT TO SCALE



6 TYPICAL COLUMN OVERPOUR TOLERANCE

NOT TO SCALE



7 TYPICAL COLUMN OFFSET LESS THAN 3"

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Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
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STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
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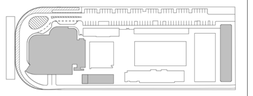

△	DESCRIPTION	DATE

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PROJECT NORTH:

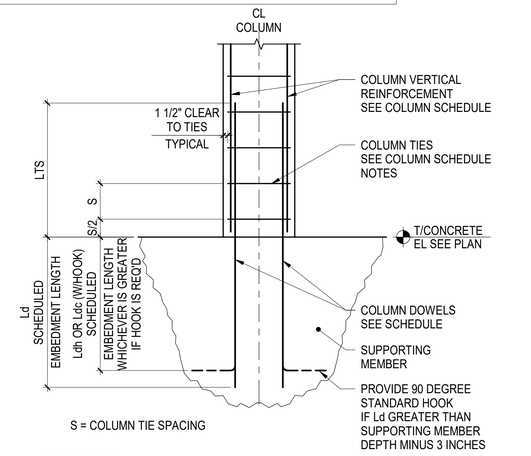
DRAWING TITLE
TYPICAL CONCRETE COLUMN DETAILS I

PROJECT NUMBER: 010326.000

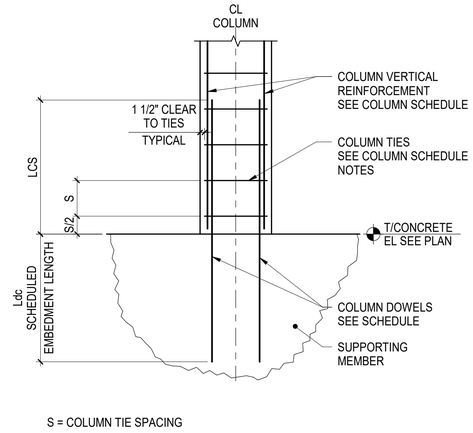
SCALE: As indicated

SHEET
S4-100

8/22/2022 6:55:10 PM • Sheet Number: S4-101
TT Project Number: K20063.00

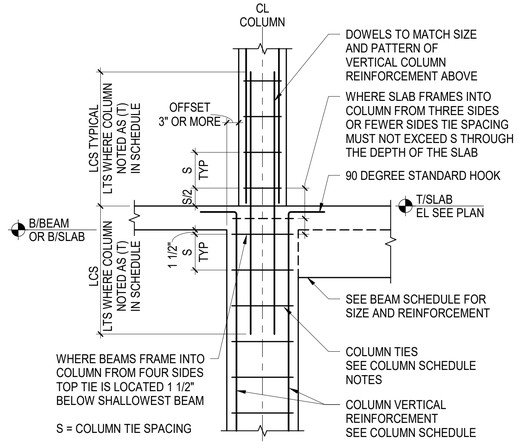


A **TENSION**
WHERE COLUMN NOTED AS (T) IN SCHEDULE



B **COMPRESSION**
TYPICAL UON

1 TYPICAL BOTTOM OF COLUMN
SCALE: NOT TO SCALE



2 TYPICAL COLUMN OFFSET 3" OR MORE
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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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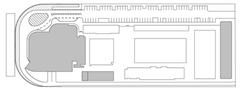
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE COLUMN DETAILS II

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-101

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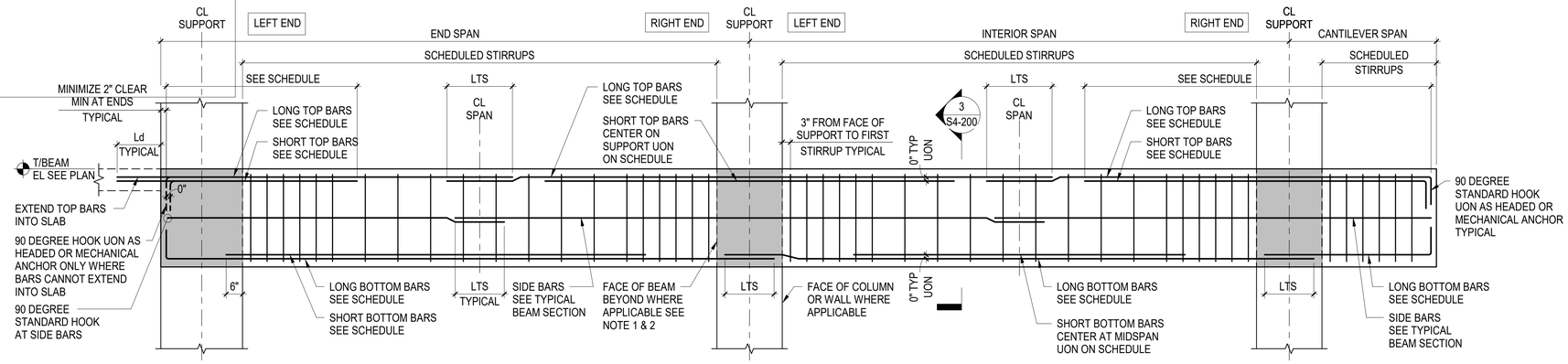
TT Project Number: K20063.00

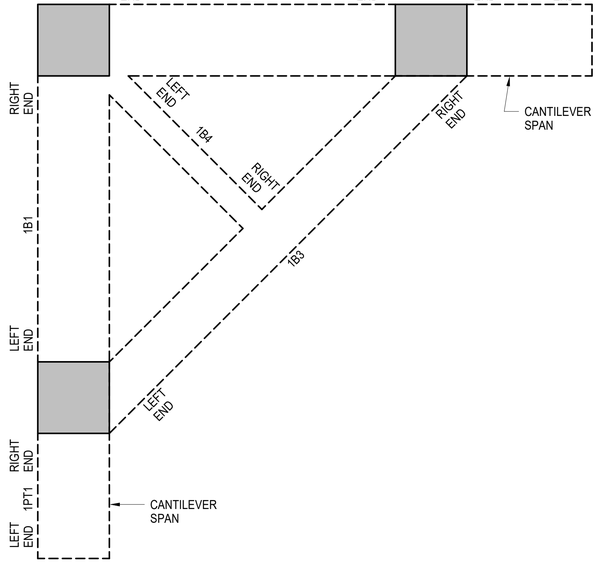


NOTES:

1. ELEVATION AS SHOWN REPRESENTS STIRRUP ARRANGEMENT AT COLUMN SUPPORTS
2. FOR STIRRUP ARRANGEMENT AT BEAM SUPPORT SEE TYPICAL DETAILS AT BEAM JOINT SUPPORT
3. CONTRACTOR TO MINIMIZE NUMBER OF SPLICES
4. IF SPLICES ARE REQUIRED THE SPLICES SHALL BE LOCATED WHERE INDICATED ON THIS DETAIL

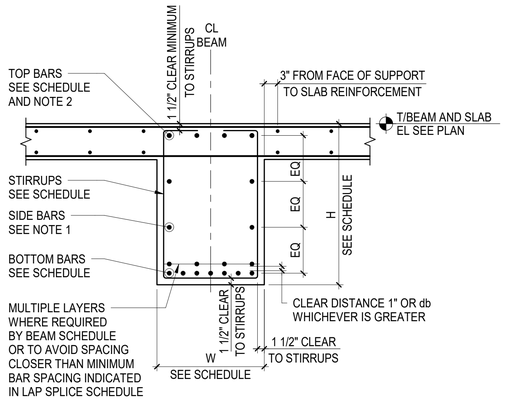
1 TYPICAL BEAM ELEVATION

NOT TO SCALE



2 BEAM ORIENTATION KEY PLAN

NOT TO SCALE



NOTES:

1. IF H IS GREATER THAN 36" PROVIDE SIDE BARS #5@10" MINIMUM UNLESS OTHERWISE NOTED IN SCHEDULE
2. WHERE TWO LAYERS OF BARS ARE REQUIRED, TOP OR BOTTOM, PLACE SHORT BARS AS INNER LAYER

3 TYPICAL BEAM SECTION

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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KEY PLAN:

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Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

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S4-200

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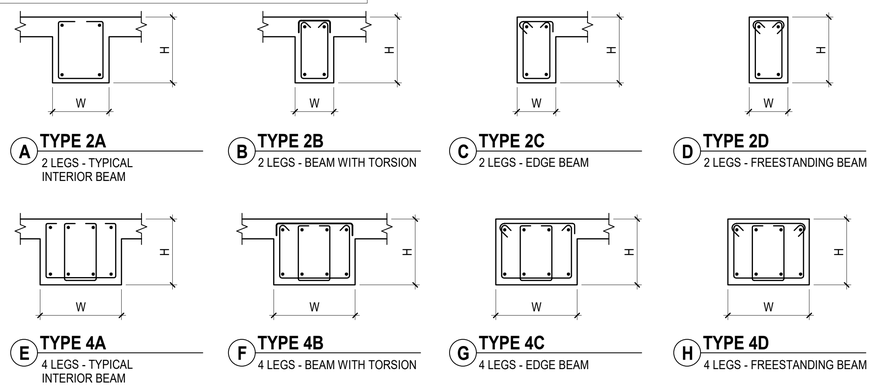


A TYPE 2A
2 LEGS - TYPICAL INTERIOR BEAM

B TYPE 2B
2 LEGS - BEAM WITH TORSION

C TYPE 2C
2 LEGS - EDGE BEAM

D TYPE 2D
2 LEGS - FREESTANDING BEAM

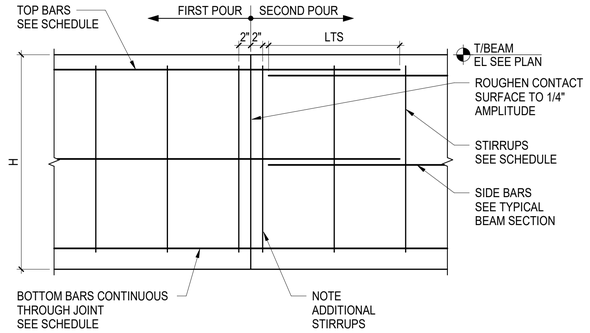
E TYPE 4A
4 LEGS - TYPICAL INTERIOR BEAM

F TYPE 4B
4 LEGS - BEAM WITH TORSION

G TYPE 4C
4 LEGS - EDGE BEAM

H TYPE 4D
4 LEGS - FREESTANDING BEAM

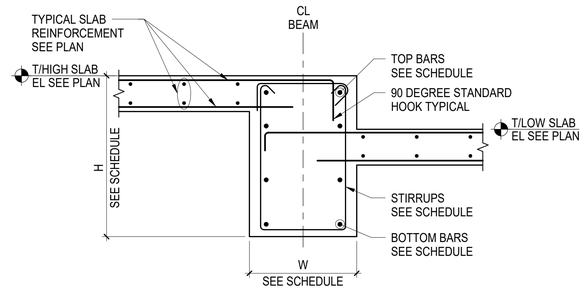
1 BEAM STIRRUP TYPES
SCALE: NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL SUBMIT CONCRETE CONSTRUCTION JOINT LAYOUT FOR REVIEW AND APPROVAL (REFER TO GENERAL NOTES AND SPECIFICATIONS) PRIOR TO REINFORCEMENT SUBMITTAL.
2. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM SER.

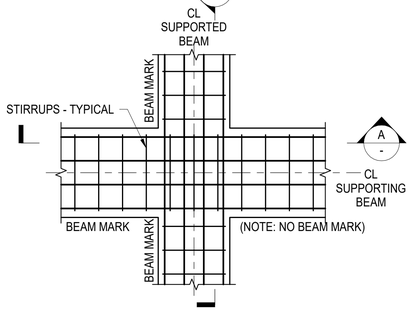
2 TYPICAL BEAM CONSTRUCTION JOINT - ELEVATION
SCALE: NOT TO SCALE



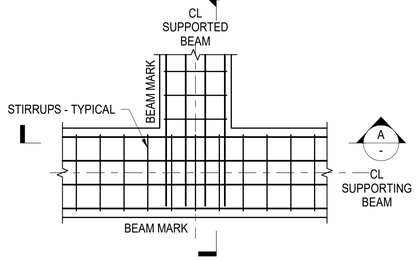
NOTES:

1. SEE TYPICAL BEAM SECTION FOR INFORMATION NOT SHOWN

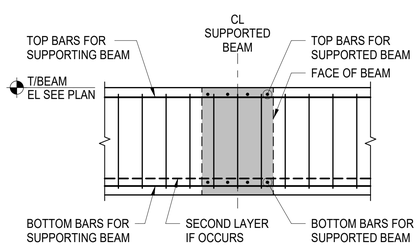
3 TYPICAL SLAB / BEAM DETAIL AT CHANGE OF SLAB ELEVATION
SCALE: NOT TO SCALE



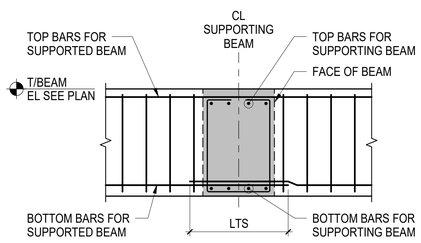
D PLAN



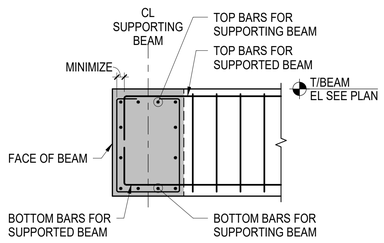
E PLAN



A ELEVATION OF SUPPORTING BEAM



B ELEVATION OF SUPPORTED BEAM



C ELEVATION OF SUPPORTED BEAM

4 TYPICAL DETAILS AT BEAM JOINT SUPPORT
SCALE: NOT TO SCALE

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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
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STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
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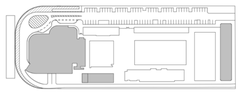
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S4-201

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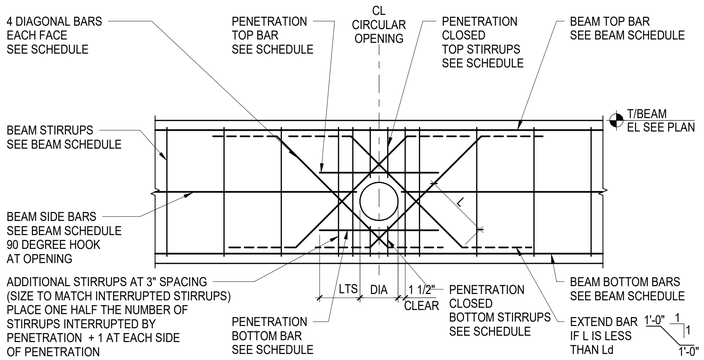
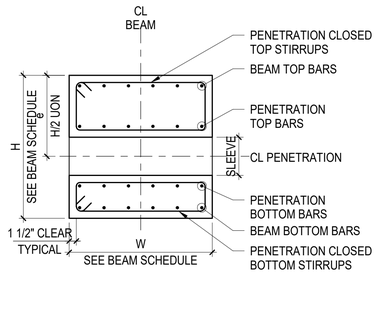


A **DETAIL**



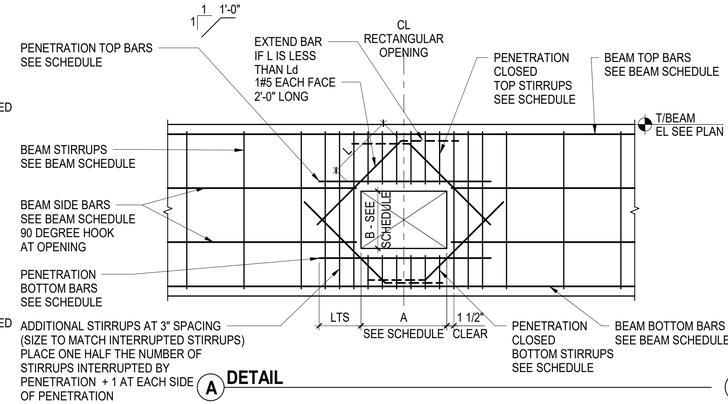
B **SECTION**

NOTES:

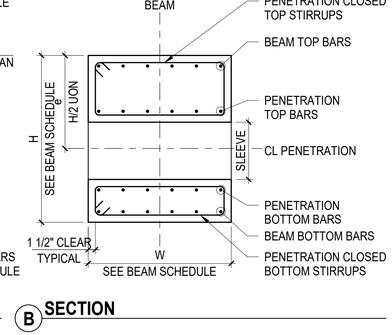
1. ALL BEAM PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT PRIOR REVIEW BY THE ARCHITECT AND WRITTEN APPROVAL FROM THE SER
2. THESE DETAILS SHALL BE USED IN CONJUNCTION WITH CONCRETE BEAM PENETRATION SCHEDULE
3. THE MINIMUM CLEAR SPACE BETWEEN TWO ADJACENT PENETRATIONS SHALL BE GREATER OF THE LARGEST PENETRATION DIMENSION OR TWO TIMES THE BEAM DEPTH
4. THE MINIMUM CLEAR DIMENSION BETWEEN THE EDGE OF A PENETRATION AND THE FACE OF SUPPORT, FACE OF SUPPORTED BEAM, OR POINT LOAD IMPOSED, SHALL BE THE BEAM DEPTH
5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS. NOTIFY SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
6. THE ADDITIONAL REINFORCEMENT SHOWN HERE IS NOT REQUIRED FOR OPENINGS 4" IN DIAMETER OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTED AND MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR STIRRUPS OR SIDE BARS.

1 TYPICAL CONCRETE BEAM WITH CIRCULAR PENETRATION

NOT TO SCALE



A **DETAIL**



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5. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS. GENERAL CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL PENETRATIONS WITH MEP DRAWINGS. NOTIFY SER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
6. THE ADDITIONAL REINFORCEMENT SHOWN HERE IS NOT REQUIRED FOR OPENINGS 4"x4" OR SMALLER PROVIDED NO BEAM REINFORCEMENT IS INTERRUPTED AND MINIMUM CONCRETE COVER IS PROVIDED AROUND ALL BARS. IT IS ACCEPTABLE TO ADJUST BEAM REINFORCEMENT WITHIN MAXIMUM SPACING LIMITS FOR STIRRUPS OR SIDE BARS.

2 TYPICAL CONCRETE BEAM WITH RECTANGULAR PENETRATION

NOT TO SCALE

CONCRETE BEAM PENETRATION SCHEDULE

MARK	MAX SIZE				REINFORCEMENT				DIAGONAL BARS AT CIRCULAR PENETRATION	REMARKS
	A (IN)	B (IN)	DIA (IN)	e (IN)	TOP BARS	BOTTOM BARS	TOP STIRRUPS	BOTTOM STIRRUPS		
P1	-	-	8	H/2	6#5	6#5	#4@3"	#4@3"	#5	XX
P2	12	6	-	H/2	6#5	6#5	#4@3"	4 LEG, #4@3"		XX

NOTES:

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2. SEE TYPICAL CONCRETE BEAM WITH CIRCULAR PENETRATION AND TYPICAL CONCRETE BEAM WITH RECTANGULAR PENETRATION DETAILS

3 CONCRETE BEAM PENETRATION SCHEDULE

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

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KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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PROJECT
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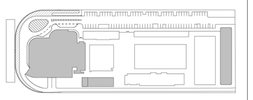
KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE BEAM DETAILS

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S4-202

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CONCRETE BEAM SCHEDULE

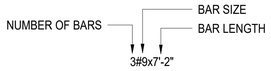
f'c = SEE GENERAL NOTES

BEAM MARK	SIZE		REINFORCEMENT							STIRRUPS			REMARKS
	W (IN)	H (IN)	LEFT END TOP BARS		RIGHT END TOP BARS		BOTTOM BARS		SIDE BARS EACH FACE SEE NOTE 4	TYPE	SIZE	SPACING FROM EACH END	
			LONG	SHORT	LONG	SHORT	LONG	SHORT					
1B1	24	36	7#9	3#9x7'-2"	8#10	4#10x8'-0"	6#8	6#8x12'-4"	-	2A	#4	1@3", 5@8", BAL @ 16"	BOTTOM BARS IN 2 LAYERS (SHORT BARS ON UPPER LAYER)
1B2	24	48	SEE ADJ BEAM	SEE ADJ BEAM	2#8	2#9x6'-0"	3#8	3#8x8'-0"	#4@7"	2A	#4	SEE DETAIL XX	
1B3	18	24	4#8	2#8x10'-0"	4#8	2#8x10'-0"	2#8	2#8x16'-0"	#4@6"	2B	#4	1@3", BAL @ 8"	
1B4	18	24	SEE ADJ BEAM	SEE ADJ BEAM	SEE ADJ BEAM	SEE ADJ BEAM	2#8	2#8x16'-0"	-	2B	#4	1@3", BAL @ 8"	
1B5	18	24	4#8	2#6x8'-0"	SEE LEFT END	SEE LEFT END	4#6	-	-	2B	#4	1@3", BAL @ 8"	CANTILEVER
1B6	24	24	2#8	1#8x8'-0"	2#8	1#8x8'-0"	6#8	-	-	2B	#4	1@3", BAL @ 10"	HOOK BOTTOM BARS BOTH ENDS

NOTES:

1. TOP OF BEAM IS ASSUMED TO BE TOP OF SLAB UON.
2. LEFT END AND RIGHT END OF BEAM ARE DEFINED ON BEAM ORIENTATION KEY PLAN
3. WHERE REINFORCEMENT IS NOTED AS "SEE ADJ BEAM", REINFORCEMENT IS TO BE CONTINUED FROM ADJACENT BEAM
4. SEE TYPICAL BEAM SECTION DETAIL WHERE NO SIDE BARS ARE INDICATED

REINFORCEMENT LEGEND:



1 CONCRETE BEAM SCHEDULE

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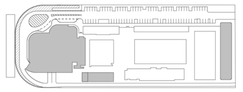
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
CONCRETE BEAM SCHEDULE

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-210

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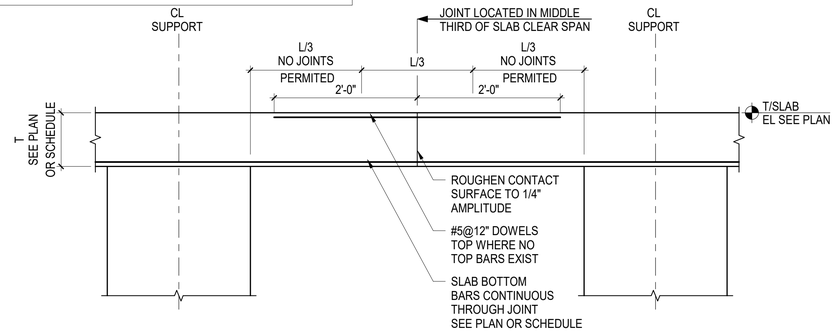
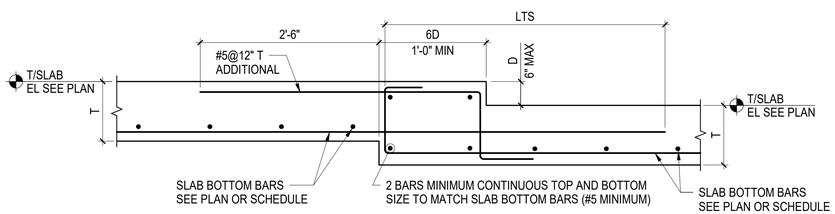


NOTES:

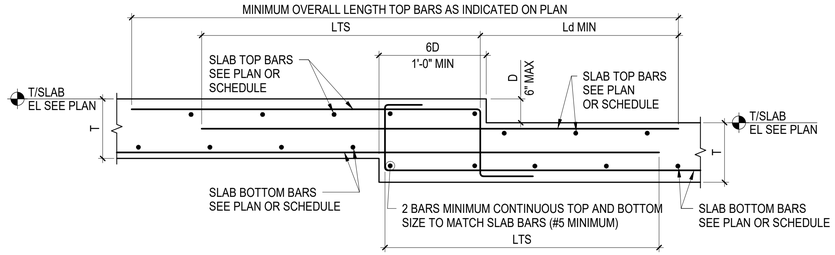
1. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LAYOUT PLAN FOR SER APPROVAL
2. FOR SLAB REINFORCEMENT NOT SHOWN, SEE PLAN OR SCHEDULE

1 TYPICAL SLAB CONSTRUCTION JOINT

NOT TO SCALE



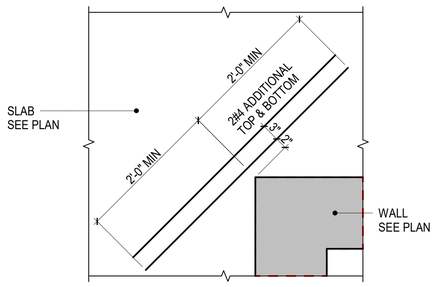
A D LESS THAN T MINUS 2 INCHES BOTTOM BARS INTERRUPTED BY STEP



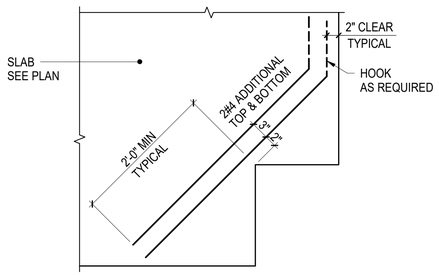
B D LESS THAN T MINUS 2 INCHES TOP AND BOTTOM BARS INTERRUPTED BY STEP

2 TYPICAL STEP IN SLAB DETAILS

NOT TO SCALE



A PLAN AT WALL



B PLAN AT RE-ENTRANT CORNER

3 TYPICAL CORNER SLAB DETAILS

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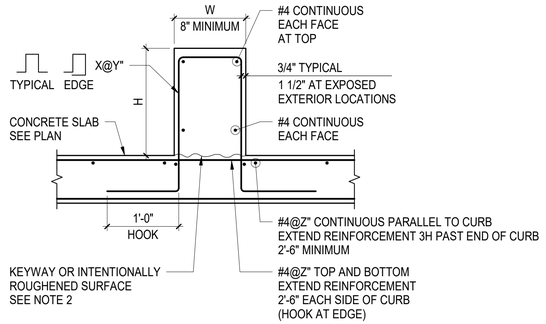

CURB DIMENSION AND REINFORCEMENT SCHEDULE

W	H	X@Y"	Z"

NOTES:

1. FOR SIZE AND LOCATION SEE ARCHITECTURE, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE, CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE TO CURBS SUPPORTING EXTERIOR WALLS SEE ADDITIONAL DETAILS FOR CURTAIN WALL SUPPORT
4. SEE ARCHITECTURAL DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
5. CORING AND/OR CUTTING OF REINFORCEMENT IS NOT PERMITTED USE EMBED PLATES FOR ATTACHMENT TO CURBS

4 TYPICAL CURB DETAILS AT EXTERIOR

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
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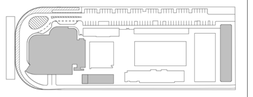

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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE SLAB DETAILS

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-300

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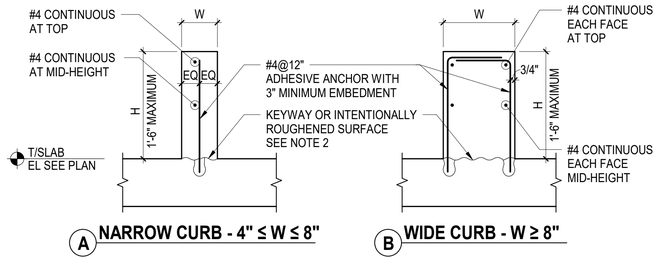


A NARROW CURB - 4" ≤ W ≤ 8"

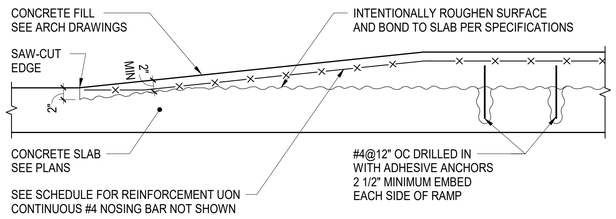
B WIDE CURB - W ≥ 8"

NOTES:

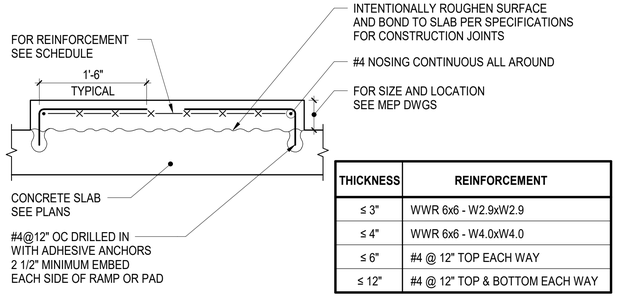
1. FOR SIZE AND LOCATION SEE ARCHITECTURAL, MEP, OR STRUCTURAL DRAWINGS
2. ROUGHEN SURFACE OF SLAB TO 1/4" AMPLITUDE, CLEAN THOROUGHLY AND APPLY BONDING AGENT IMMEDIATELY BEFORE CASTING CURB
3. THIS DETAIL IS APPLICABLE AT CURBS FOR NON-STRUCTURAL ELEMENTS SUCH AS SKYLIGHTS, INTERIOR PARTITIONS, AND INTERIOR RAILINGS
4. SEE ARCHITECTURAL DRAWINGS FOR EMBEDDED PLATES AND BLOCKOUTS REPLACE REINFORCEMENT INTERRUPTED BY BLOCKOUTS
5. CORING AND/OR CUTTING OF REINFORCEMENT IS NOT PERMITTED USE EMBED PLATES FOR ATTACHMENT TO CURBS

1 TYPICAL CURB DETAILS AT INTERIOR

SCALE: NOT TO SCALE



A DETAIL AT RAMP



THICKNESS	REINFORCEMENT
≤ 3"	WWR 6x6 - W2.9xW2.9
≤ 4"	WWR 6x6 - W4.0xW4.0
≤ 6"	#4 @ 12" TOP EACH WAY
≤ 12"	#4 @ 12" TOP & BOTTOM EACH WAY

NOTES:

1. THIS DETAIL IS NOT APPLICABLE TO GENERAL RAISED SLAB AREA HIGHER THAN 4" OTHER THAN MECHANICAL PADS AND HOUSEKEEPING PADS

B SECTION AT RAMP OR PAD

2 TYPICAL DETAIL OF CONCRETE FILL HOUSEKEEPING PAD / MECHANICAL PAD / RAMP

SCALE: NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
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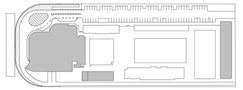

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SEAL & SIGNATURE
Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE SLAB DETAILS

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-301

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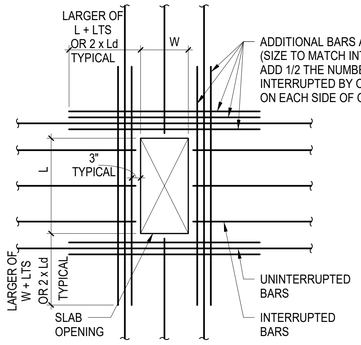
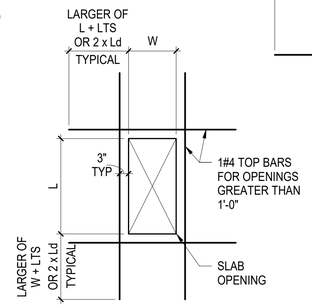
NOTES:

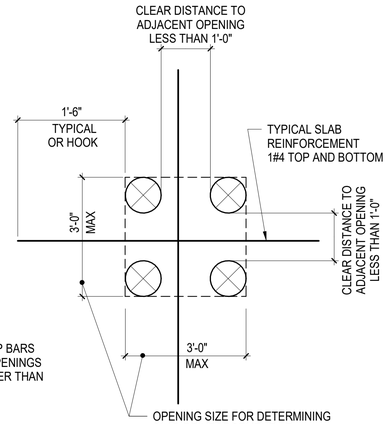
1. REFER TO PLANS FOR ADDITIONAL BARS AROUND OPENINGS
2. SEE STRUCTURAL DRAWINGS FOR QUANTITY AND LOCATIONS OF OPENINGS. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH MEP DRAWINGS NOTIFY STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES FOR REVIEW AND APPROVAL
3. FOR TWO-WAY SLAB SEE TYPICAL TWO-WAY SLAB OPENING LIMITATIONS. FOR OPENING NOT MEETING LIMITATIONS OR GREATER THAN 3 FEET, SUBMIT OPENINGS TO SER FOR APPROVAL
4. FOR ONE-WAY SLABS WHERE THE OPENING DIMENSION PERPENDICULAR TO THE DIRECTION OF THE SPAN IS GREATER THAN 2 FEET, SUBMIT OPENINGS TO SER FOR APPROVAL
5. WHERE ADJACENT OPENINGS ARE NOT SEPARATED BY 2X THE LARGEST OPENING DIMENSION OR WOULD INTERRUPT THE ADDITIONAL REINFORCEMENT FROM THE ADJACENT OPENING, SUBMIT OPENINGS TO SER FOR APPROVAL



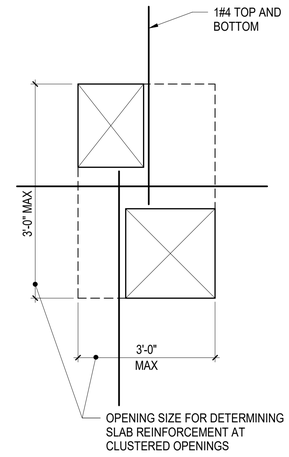
A ADDITIONAL BARS WHERE BARS ARE INTERRUPTED



B ADDITIONAL TOP BARS WHERE NO TOP BARS ARE PRESENT

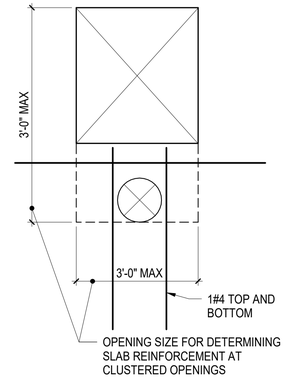


C TYPE 1



D TYPE 2

SEE TYPE 1 FOR INFORMATION NOT SHOWN



E TYPE 3

SEE TYPE 1 FOR INFORMATION NOT SHOWN

NOTES: ADDITIONAL BARS

1. PROVIDE ADDITIONAL BARS ON EACH SIDE OF OPENING FOR TOP AND BOTTOM BARS THAT ARE INTERRUPTED BY OPENINGS DISTRIBUTE REPLACEMENT BARS EQUALLY TO BOTH SIDES OF OPENING AT 3" SPACING
2. PROVIDE A MINIMUM OF 2 BARS EACH SIDE OF OPENING TOP AND BOTTOM WHERE NO TOP BARS ARE PRESENT, PROVIDE ADDITIONAL TOP BARS SHOWN ABOVE
3. AT CLUSTERED OPENINGS, PROVIDE THESE ADDITIONAL BARS AROUND THE CLUSTER PLUS THE ADDITIONAL BARS SHOWN IN THE CLUSTERED OPENING DETAIL

ADDITIONAL TOP BARS	
OPENING SIZE (LARGER DIMENSION OF OPENING)	TOP BARS ALL SIDES
0 - 12"	NONE
12" - 36"	(1) #4

CLUSTERED OPENING ADDITIONAL REINFORCEMENT

NOTES: CLUSTERED OPENINGS

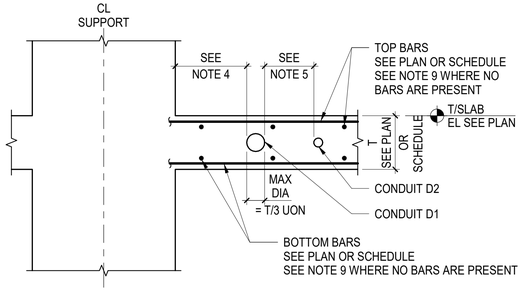
1. THE REINFORCEMENT REQUIREMENTS AT CLUSTERED OPENINGS ARE IN ADDITION TO THE TYPICAL SLAB OPENING DETAIL REQUIREMENTS AROUND THE ENTIRE CLUSTER
2. FOR ONE-WAY SLABS, WHEN CLUSTERED OPENING IS GREATER THAN 2 FEET, SUBMIT TO SER FOR APPROVAL
3. FOR TWO-WAY SLABS, WHEN CLUSTERED OPENING DOES NOT MEET TWO-WAY SLAB OPENING LIMITATIONS OR IS GREATER THAN 3 FEET, SUBMIT TO SER FOR APPROVAL

1 TYPICAL SLAB OPENING DETAILS

NOT TO SCALE

NOTES:

1. PLACE CONDUITS BETWEEN TOP AND BOTTOM LAYER OF REINFORCEMENT CENTERED WITHIN SLAB
2. CROSSOVER OF CONDUITS AND/OR PIPES IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY SER
3. CONDUITS TO BE PLASTIC OR STEEL. USE OF ALUMINUM CONDUITS IS NOT PERMITTED
4. PLACE CONDUITS THE LARGEST OF THE FOLLOWING CLEAR FROM FACE OF COLUMN:
   A. LARGEST COLUMN DIMENSION (WIDTH OR DEPTH)
   B. 2 x SLAB THICKNESS T
   C. 1'-0"
5. MAINTAIN A CLEAR SPACING BETWEEN CONDUITS OF THREE TIMES THE LARGER OUTER DIAMETER OF D1 AND D2, BUT NOT LESS THAN 6 INCHES
6. NO MORE THAN THREE (3) CONDUITS PER SIX (6) FT WIDTH OF SLAB ARE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY SER
7. WHERE LARGE NUMBERS OF CONDUIT ENTER THE SLAB AT ONE LOCATION:
   A. SUBMIT LAYOUT FOR APPROVAL BY SER
   B. FAN OUT CONDUITS IMMEDIATELY
   C. PROVIDE ADDITIONAL TOP & BOTTOM REINFORCEMENT AS DIRECTED BY SER UNTIL NOTES 5 AND 6 SPACING REQUIREMENTS ARE MET
8. NO CONDUITS ARE PERMITTED WITHIN A DISTANCE "T" CLEAR FROM SLAB EDGE, SLAB DEPRESSION, OR DROP PANEL WITHOUT PRIOR WRITTEN APPROVAL BY SER
9. WHERE NO BARS ARE PRESENT AT ONE OR MORE FACES OF SLAB, PROVIDE THE FOLLOWING REINFORCEMENT PERPENDICULAR TO THE CONDUIT(S) 3'-0" LONG OR EXTENDING 1'-0" PAST EACH SIDE OF CONDUIT(S), WHICHEVER IS LARGER:
   T < 8", #4@12" OC
   8" < T < 1'-0", #5@12" OC
   1'-0" < T < 1'-6", #6@12" OC
10. ANY DEVIATIONS FROM THE ABOVE STATED CONDITIONS REQUIRE PRIOR WRITTEN APPROVAL BY SER



POST-TENSIONED CONCRETE NOTES:

1. FOR POST-TENSIONED CONCRETE,
   MAXIMUM CONDUIT OUTER DIAMETER IS THE SMALLER OF:
   A. T/4
   B. 2"
2. CONDUITS MAY NOT BE TIED TO, CONTACT, DISPLACE, OR INTERRUPT THE POST-TENSIONING REINFORCEMENT
3. MAINTAIN A CLEAR SPACING BETWEEN TENDONS AND CONDUITS OF THREE TIMES THE DIAMETER OF THE CONDUIT BUT NOT LESS THAN 6 INCHES

2 TYPICAL CONDUITS IN SLAB

NOT TO SCALE

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OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
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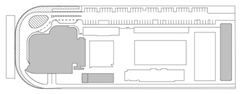

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DRAWING TITLE
TYPICAL CONCRETE SLAB DETAILS

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

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TT Project Number: K20063.00
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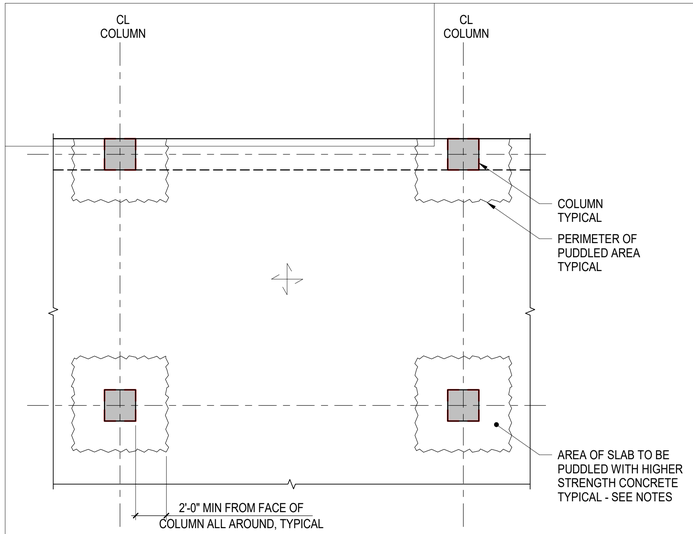
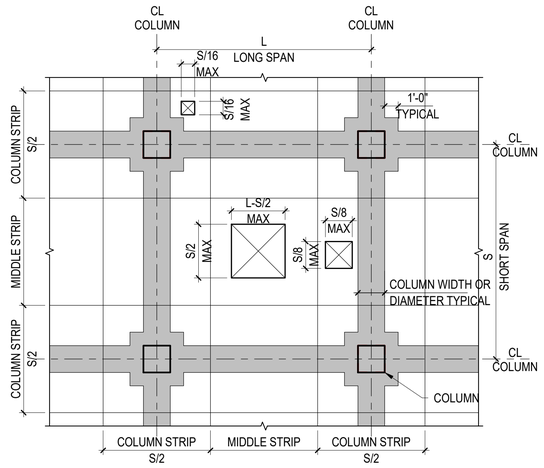


NOTES:

1. PUDDLING IS REQUIRED IN THE FLOOR AT ALL COLUMNS WHERE THE CONCRETE COMPRESSIVE STRENGTH (f'c) OF THE COLUMN ABOVE OR BELOW THE FLOOR IS GREATER THAN 1.4 TIMES THE CONCRETE COMPRESSIVE STRENGTH (f'c) OF THE FLOOR
2. SLAB AND BEAMS SHALL BE PUDDLED WITH THE LARGER CONCRETE COMPRESSIVE STRENGTH (f'c) USED FOR THE COLUMN ABOVE OR BELOW
3. PLACE THE HIGHER STRENGTH CONCRETE IN THE AREA TO BE PUDDLED BEFORE PLACING THE LOWER STRENGTH CONCRETE OF THE SLAB
4. THE DIFFERENT CONCRETE COMPRESSIVE STRENGTHS (f'c) SHALL BE WELL INTEGRATED AT THE PERIMETER OF THE PUDDLED AREA TO PROVIDE MONOLITHIC CONCRETE IN THE FINAL CONDITION

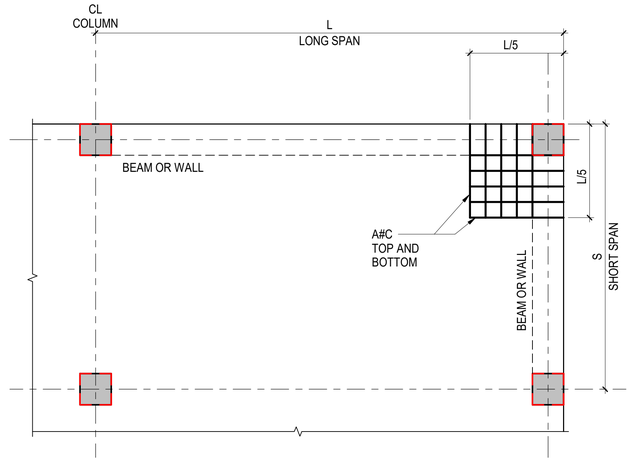
1 TYPICAL TWO-WAY SLAB PUDDLING PLAN
NOT TO SCALE



NOTES:

1. INDICATES ZONE WHERE OPENINGS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL BY SER
   OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE COORDINATED AND APPROVED BY SER
2. OPENINGS MEETING THE LIMITATIONS ABOVE SHALL BE PROVIDED WITH REINFORCEMENT AS SHOWN ON PLAN AND FOLLOWING TYPICAL SLAB OPENING DETAILS INCLUDING ADDITIONAL BARS FOR INTERRUPTED REINFORCEMENT
3. OPENINGS SHALL BE SHOWN ON COORDINATED PENETRATION DRAWINGS AND REINFORCEMENT SHOP DRAWINGS FOR SER REVIEW
4. OPENINGS NOT MEETING THESE LIMITATIONS MUST BE SUBMITTED TO THE SER FOR COORDINATION, DESIGN, AND APPROVAL PRIOR TO SUBMITTING SHOP DRAWINGS

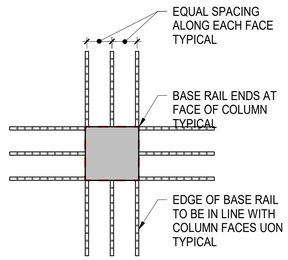
2 TYPICAL TWO-WAY SLAB OPENING LIMITATIONS
NOT TO SCALE



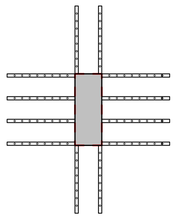
NOTES:

1. SEE PLAN FOR SLAB REINFORCEMENT
   BARS SHOWN ABOVE ARE ADDITIONAL TO THOSE SHOWN ON PLAN
   BARS SHALL BE LOCATED IN SAME LAYERS AS SLAB REINFORCEMENT
   BEAM TOP BARS TO BE LOCATED BELOW SLAB TOP BARS
2. ADDITIONAL BARS TO BE EQUALLY SPACED WITHIN EXTENT SHOWN ABOVE
3. ADDITIONAL TOP BARS TO BE HOOKED INTO SUPPORT
   ADDITIONAL BOTTOM BARS TO EXTEND 6" INTO SUPPORT

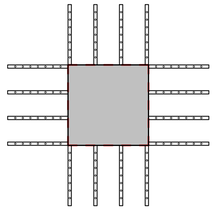
3 TYPICAL BEAM OR WALL SUPPORTED SLAB EXTERIOR CORNER DETAIL
NOT TO SCALE



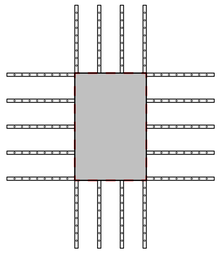
A TYPE A - INTERIOR COLUMN (12 RAILS)



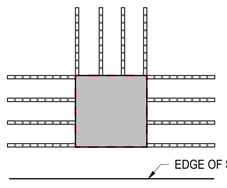
B TYPE B - INTERIOR COLUMN (12 RAILS)



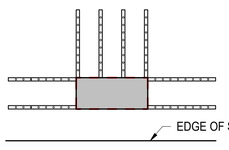
C TYPE C - INTERIOR COLUMN (16 RAILS)



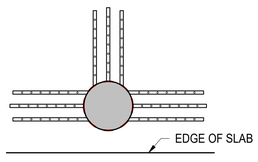
D TYPE D - INTERIOR COLUMN (18 RAILS)



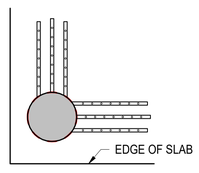
E TYPE E - EDGE COLUMN (12 RAILS)



F TYPE F - EDGE COLUMN (8 RAILS)

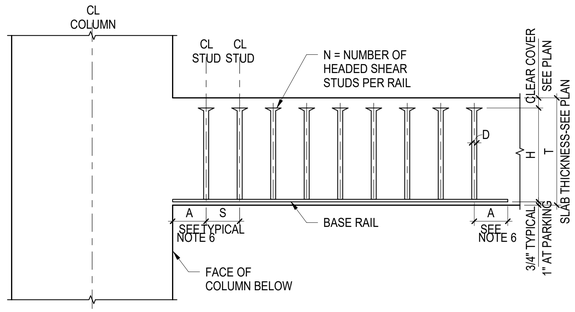


G TYPE G - EDGE COLUMN (9 RAILS)



H TYPE H - CORNER COLUMN (6 RAILS)

4 HEADED SHEAR STUD REINFORCEMENT TYPE - PLAN ARRANGEMENT
NOT TO SCALE



A HEADED SHEAR STUD REINFORCEMENT ELEVATION

NOTES:

1. HEADED SHEAR STUD REINFORCEMENT BY DECON OR APPROVED EQUAL
2. SEE PLANS FOR HEADED SHEAR STUD REINFORCEMENT LOCATIONS
3. HEADED STUDS AND RAIL ASSEMBLY SHALL CONFORM TO ASTM 1044 WITH STUD Fy=50 KSI MINIMUM
4. ALL DIMENSIONS ARE IN INCHES
5. BASE RAILS TO BE PLACED PERPENDICULAR TO COLUMN FACES
6. DIMENSION A TO BE LESSER OF 3" OR H/2
7. TYPE REFERS TO HEADED SHEAR STUD REINFORCEMENT TYPE - PLAN ARRANGEMENT

STUDRAIL SCHEDULE

STUDRAIL MARK	TYPE SEE NOTE 7	A	H	D	N	S
SR-X	-	-	-	-	-	-

5 HEADED SHEAR STUD REINFORCEMENT ELEVATION AND SCHEDULE
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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

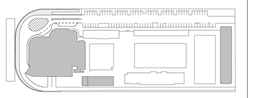
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
TYPICAL CONCRETE TWO-WAY SLAB DETAILS

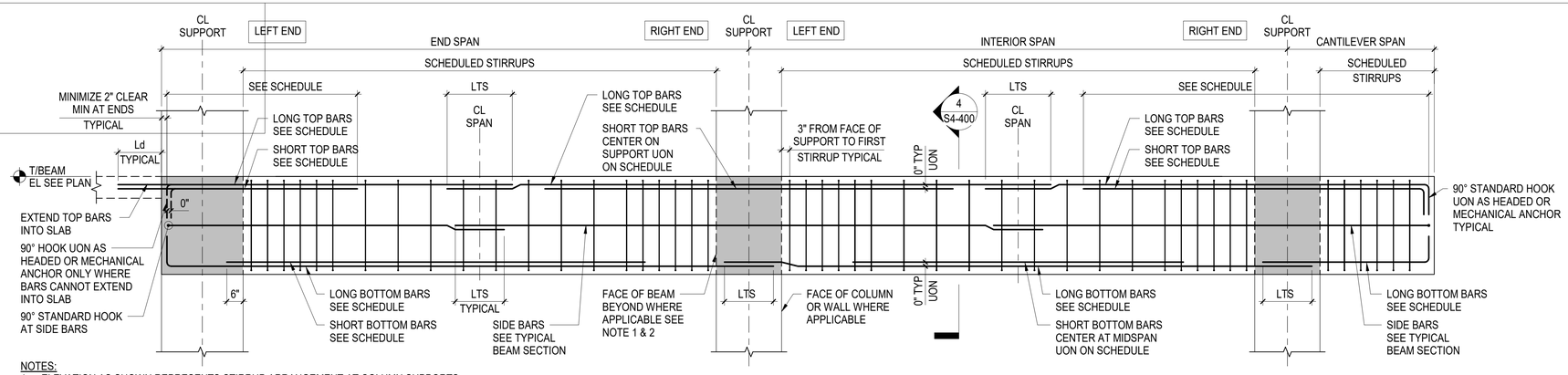
PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S4-304

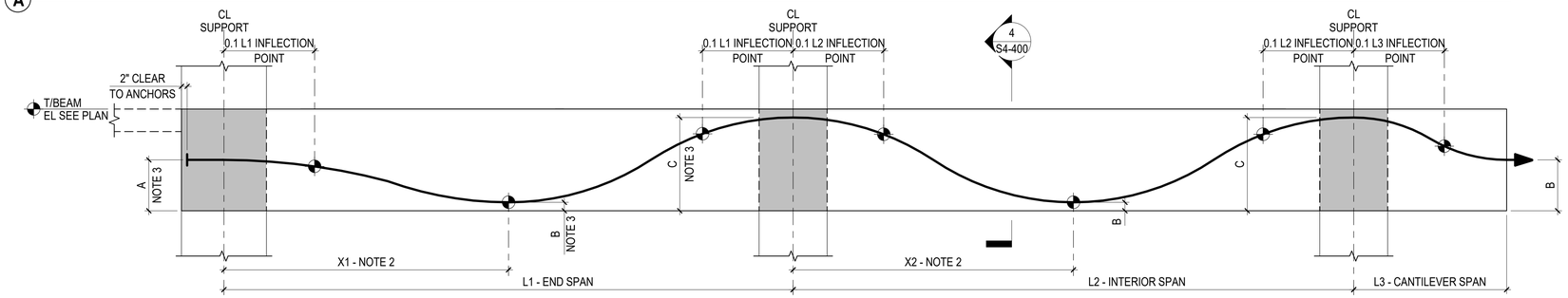
Thornton Tomasetti

8/22/2022 6:55:15 PM • Sheet Number: S4-400
TT Project Number: K20063.00



NOTES:
1. ELEVATION AS SHOWN REPRESENTS STIRRUP ARRANGEMENT AT COLUMN SUPPORTS
2. FOR STIRRUP ARRANGEMENT AT BEAM SUPPORT SEE TYPICAL DETAILS AT POST-TENSIONED BEAM JOINT SUPPORT
3. SEE TYPICAL CONCRETE BEAM DETAILS SHEET FOR BEAM STIRRUPS TYPES
4. CONTRACTOR TO MINIMIZE NUMBER OF SPLICES
5. IF SPLICES ARE REQUIRED THE SPLICES SHALL BE LOCATED WHERE INDICATED ON THIS DETAIL

A NONPRESTRESSED REINFORCEMENT ELEVATION

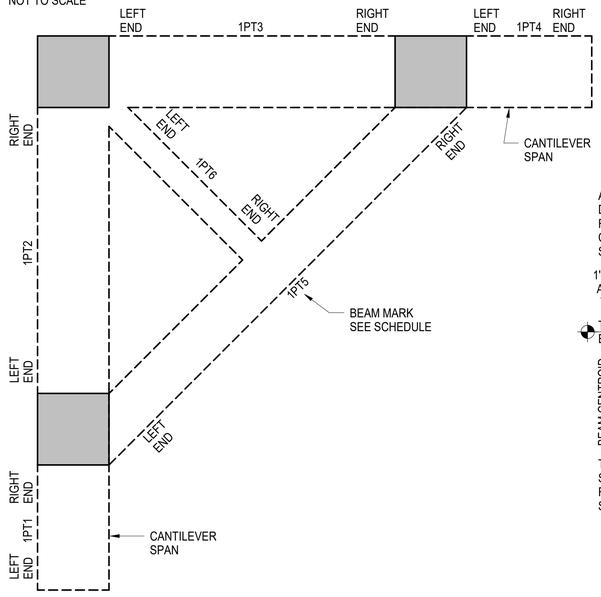


NOTES:
1. INFLECTION POINT IS LOCATION ALONG TENDON PROFILE WHERE TENDON CURVATURE REVERSES
2. X# LOCATES THE TENDON LOW POINT ALONG SPAN L#. THIS LOCATION IS DETERMINED FROM THE RATIO X/L AS SHOWN IN THE POST-TENSIONED BEAM SCHEDULE.
3. DIMENSIONS A, B, C ARE MEASURED FROM BOTTOM OF BEAM TO CENTROID OF TENDON FORCE, SEE SCHEDULE

B POST-TENSIONING REINFORCEMENT ELEVATION

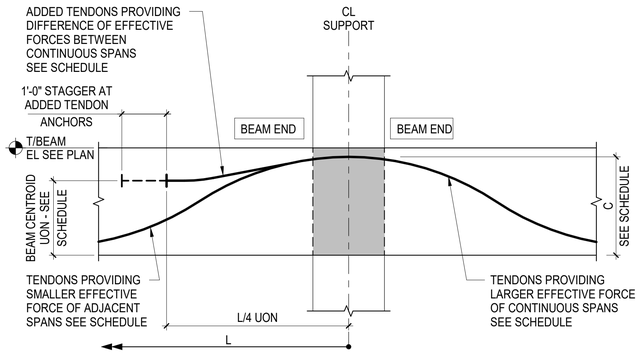
1 TYPICAL POST-TENSIONED BEAM ELEVATIONS

NOT TO SCALE



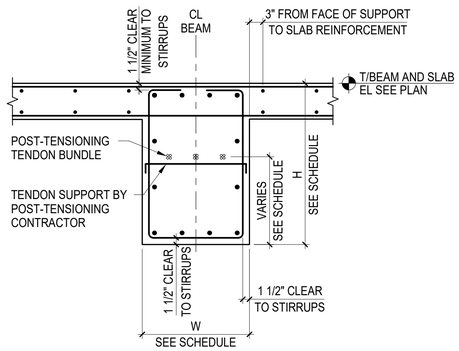
2 POST-TENSIONED BEAM ORIENTATION KEY PLAN

NOT TO SCALE



3 TYPICAL POST-TENSIONED BEAM WITH ADDED TENDONS

NOT TO SCALE



NOTES:
1. SEE TYPICAL BEAM SECTION ON TYPICAL CONCRETE BEAM DETAILS SHEET FOR INFORMATION NOT SHOWN

4 TYPICAL POST-TENSIONED BEAM SECTION

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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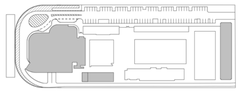
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL POST-TENSIONED BEAM DETAILS I

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S4-400

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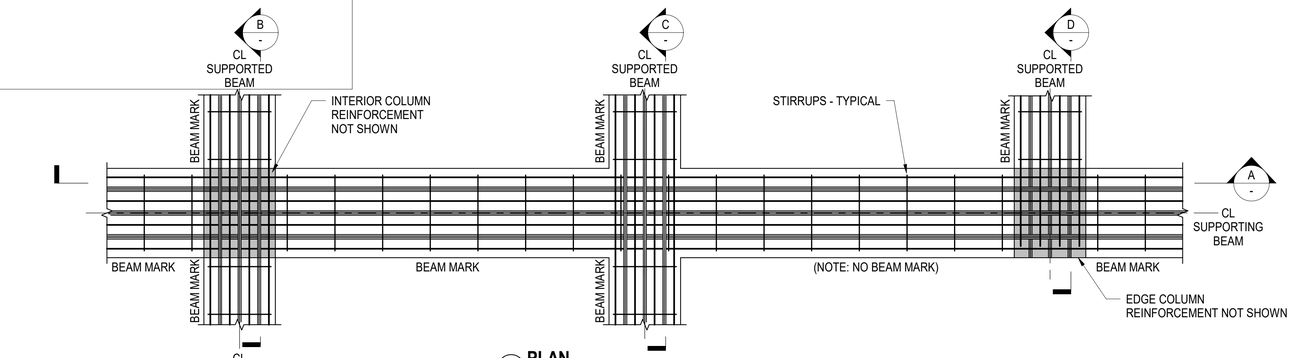
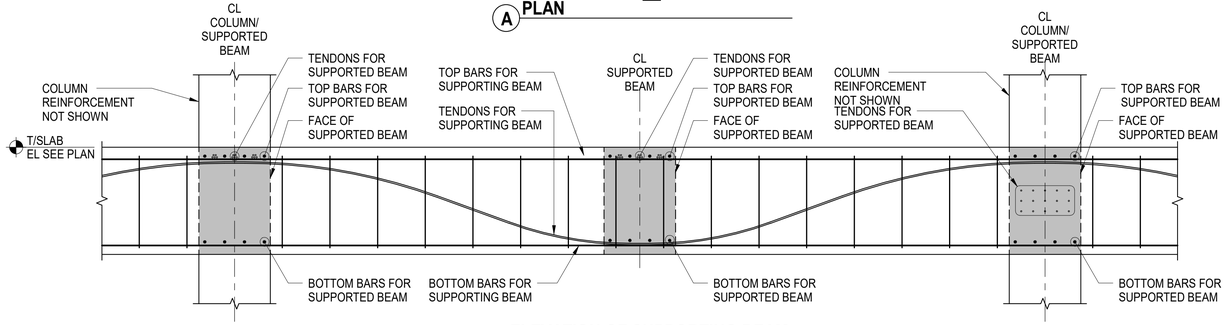
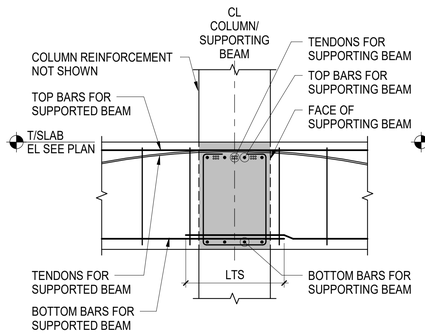
TT Project Number: K20063.00



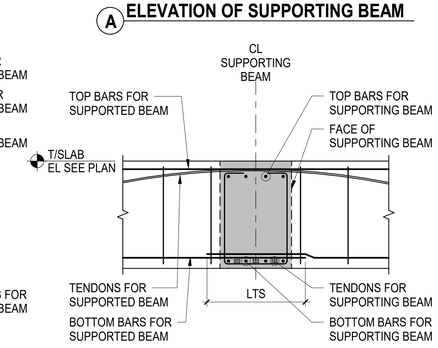
A **PLAN**



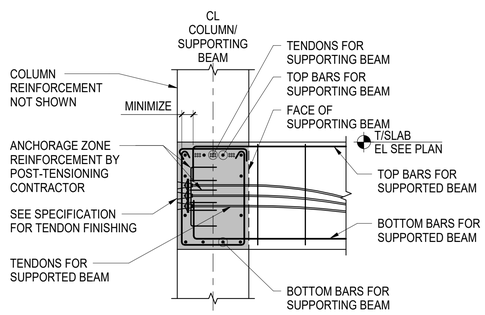
A **ELEVATION OF SUPPORTING BEAM**



B **ELEVATION OF SUPPORTING BEAM AT INTERIOR COLUMN**



C **ELEVATION OF SUPPORTING BEAM**



D **ELEVATION OF SUPPORTING BEAM AT EDGE COLUMN**

1 TYPICAL DETAILS AT POST-TENSIONED BEAM JOINT SUPPORT

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
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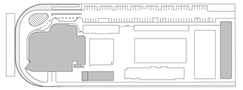
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
TYPICAL POST-TENSIONED BEAM DETAILS II

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-401

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POST-TENSIONED BEAM SCHEDULE

f'c = SEE GENERAL NOTES

BEAM MARK	SIZE		POST-TENSIONING REINFORCEMENT					NONPRESTRESSED REINFORCEMENT										REMARKS
	W (IN)	H (IN)	EFFECTIVE PRESTRESSING FORCE (K)	TENDON PROFILE A (IN)	B (IN)	C (IN)	X/L SEE NOTE 3	LEFT END TOP BARS LONG	LEFT END TOP BARS SHORT	RIGHT END TOP BARS LONG	RIGHT END TOP BARS SHORT	BOTTOM BARS LONG	BOTTOM BARS SHORT	SIDE BARS EACH FACE SEE NOTE 4	STIRRUPS TYPE SEE NOTE 5	STIRRUPS SIZE	STIRRUPS SPACING FROM EACH END	
1PTX	18	16	216	9 3/4	2 1/2	9 1/4	0.5	2#5	2#5x7'-0"	2#5	2#5x7'-0"	2#7	1#7x14'-5"	-	2C	#4	1@3", BAL @ 12"	

NOTES:

1. TOP OF BEAM IS ASSUMED TO BE TOP OF SLAB UON
2. LEFT END AND RIGHT END OF BEAM ARE DEFINED ON BEAM ORIENTATION KEY PLAN
3. X/L IS RATIO OF TENDON LOW POINT LOCATION (MEASURED FROM THE LEFT END OF THE SPAN) TO THE SPAN LENGTH. SEE TYPICAL POST-TENSIONED BEAM ELEVATION.
4. SEE TYPICAL POST-TENSIONED BEAM SECTION DETAIL WHERE NO SIDE BARS ARE INDICATED
5. SEE TYPICAL CONCRETE BEAM DETAILS FOR BEAM STIRRUP TYPES
6. ADJ INDICATES SEE ADJACENT BEAM
   - INDICATES CELL INTENTIONALLY LEFT BLANK
7. WHERE SCHEDULED EFFECTIVE PRESTRESSING FORCE DIFFERS BETWEEN CONTINUOUS SPANS SEE TYPICAL POST-TENSIONED BEAM DETAIL WITH ADDED TENDONS

NONPRESTRESSED REINFORCEMENT LEGEND:

1 POST-TENSIONED BEAM SCHEDULE

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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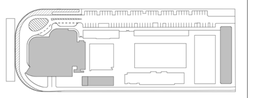
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



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Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
POST-TENSIONED BEAM SCHEDULE

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

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S4-410

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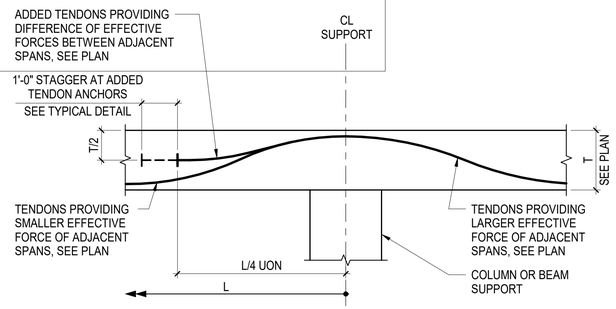
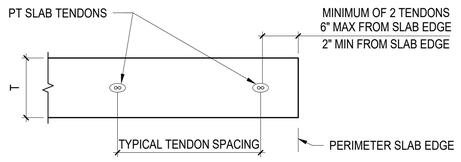


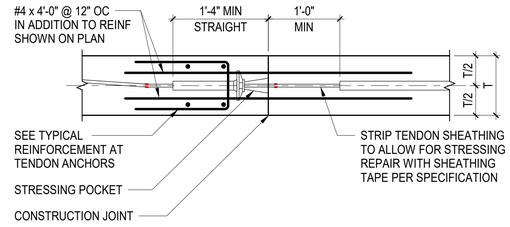
1 TYPICAL POST-TENSIONED SLAB WITH ADDED TENDONS

NOT TO SCALE



2 TYPICAL PLACEMENT OF UNIFORMLY SPACED TENDONS PARALLEL TO SLAB EDGE

NOT TO SCALE



NOTES:

1. CONTINUE ALL REINFORCEMENT ON PLAN THROUGH JOINT (NOT SHOWN FOR CLARITY)

3 TYPICAL REINFORCEMENT AT CONSTRUCTION JOINT WITH INTERMEDIATE STRESSING ANCHORS

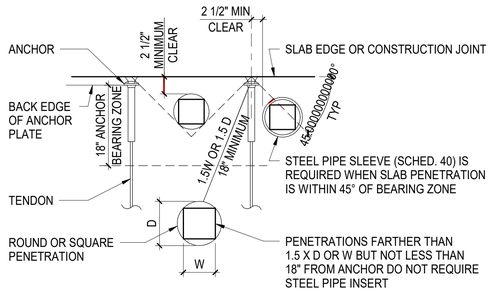
NOT TO SCALE

A PLAN

B ELEVATION

4 TYPICAL REINFORCEMENT AT ADDED SLAB TENDONS

NOT TO SCALE

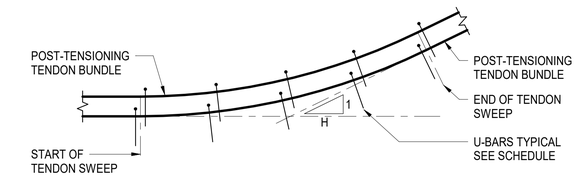


NOTES:

1. DETAIL APPLIES AT ALL TENDON ANCHOR LOCATIONS (DEAD END OR STRESSING END) INCLUDING ANCHORS AT INTERMEDIATE STRESSING POINTS AND ADDED TENDONS
2. PENETRATION WITH DIMENSIONS GREATER THAN OR EQUAL TO 1'-0" REQUIRE REINFORCEMENT PER TYPICAL POST-TENSIONED SLAB OPENING DETAIL
3. HORIZONTAL CONDUITS IN THE SLAB SHALL NOT PENETRATE THE POST-TENSIONING ANCHORAGE BEARING ZONE

5 TYPICAL REINFORCEMENT AT ANCHORAGE ZONE PENETRATIONS

NOT TO SCALE



TENDON SLOPE	# U-BARS WITHIN TENDON SWEEP
8 ≤ H	NO U-BAR REQUIRED
3 ≤ H < 8	#4@24" MAX (4 U-BARS MIN)
2 ≤ H < 3	#4@12" MAX (5 U-BARS MIN)
H < 2	CONSULT SER

NOTES:

1. CLEAR SPACING BETWEEN TENDONS APPLIES WHETHER U-BARS REQUIRED OR NOT

6 TYPICAL DETAIL AT HORIZONTAL TENDON SWEEP

NOT TO SCALE

ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

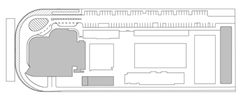
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
TYPICAL POST-TENSIONED SLAB DETAILS I

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S4-500

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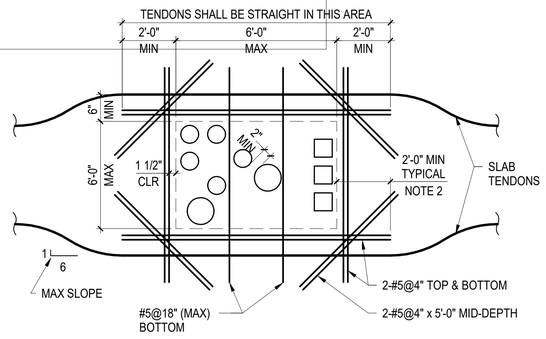
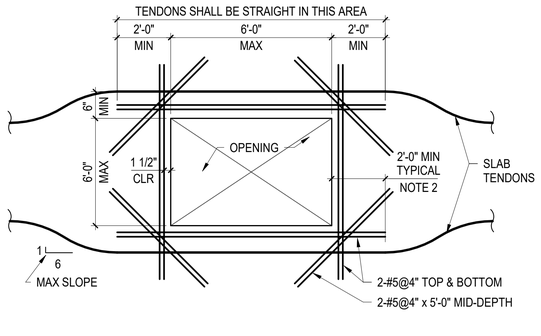
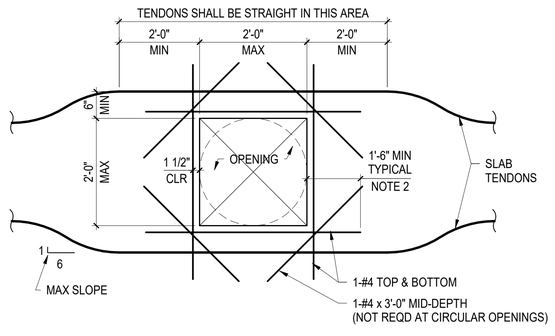


A DETAIL AT CLUSTERED PENETRATIONS



B DETAIL AT SINGLE OPENING

(EITHER DIMENSION GREATER THAN 2'-0" BUT LESS THAN OR EQUAL TO 6'-0")



C DETAIL AT SINGLE OPENING

(BOTH DIMENSIONS LESS THAN OR EQUAL TO 2'-0")

NOTES:

1. NOTIFY THE SER IN WRITING OF OPENINGS NOT SHOWN ON PLANS OR OF CONDITIONS NOT COVERED BY THESE DETAILS
2. PROVIDE STANDARD ACI 180° HOOK WHERE MINIMUM BAR EXTENSION PAST EDGE OF OPENING IS NOT POSSIBLE
3. ADDITIONAL REINFORCEMENT NOT REQUIRED FOR SLAB OPENINGS LESS THAN 1'-0" x 1'-0"

1 TYPICAL POST-TENSIONED SLAB OPENING DETAIL

SCALE: NOT TO SCALE

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:

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PROJECT NORTH:

DRAWING TITLE
TYPICAL POST-TENSIONED SLAB DETAILS II

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-501

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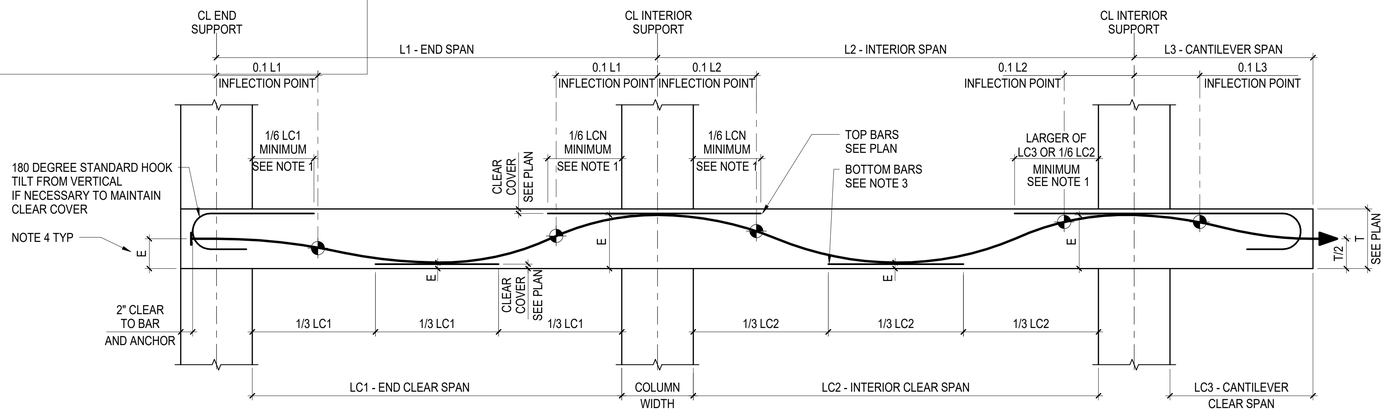
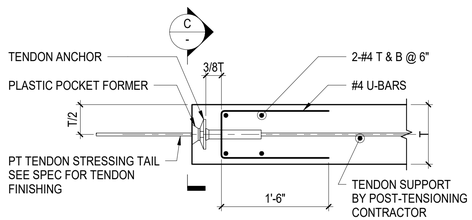


NOTES:

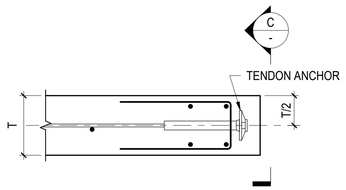
1. BAR LENGTHS TO BE LARGER OF LENGTH INDICATED ON PLAN AND LENGTH INDICATED ABOVE
2. LCN DENOTES LARGER OF ADJACENT CLEAR SPANS
3. BOTTOM BARS ARE REQUIRED ONLY IF SHOWN ON PLANS
4. DIMENSION E IS MEASURED FROM BOTTOM OF SLAB TO CENTROID OF TENDON FORCE, SEE PLAN
5. INFLECTION POINT IS LOCATION ALONG TENDON PROFILE WHERE TENDON CURVATURE REVERSES

1 TYPICAL POST-TENSIONED TWO-WAY FLAT PLATE

NOT TO SCALE



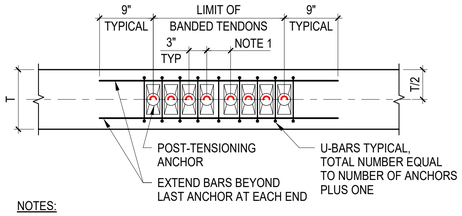
A DETAIL AT STRESSING END ANCHORS



NOTES:

1. SEE DETAILS AT STRESSING END FOR INFORMATION NOT SHOWN

B DETAIL AT DEAD END ANCHORS



NOTES:

1. 4" MINIMUM SPACING BETWEEN EACH GROUP OF FOUR ANCHORS

C ELEVATION AT EDGE OF SLAB

2 TYPICAL POST-TENSIONED TWO-WAY FLAT PLATE DETAILS AT BANDED TENDONS

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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1 Hall of Fame Drive, Fort Lauderdale, FL 33316

KEY PLAN:

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Derek A. Wassink • FL PE# 55303

TO THE BEST OF THE STRUCTURAL ENGINEERS KNOWLEDGE, THE PLANS, DETAILS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

PROJECT NORTH:

DRAWING TITLE
TYPICAL POST-TENSIONED TWO-WAY SLAB DETAILS I

PROJECT NUMBER: 010326.000

SCALE: NOT TO SCALE

SHEET
S4-502

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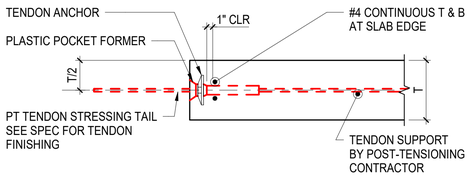
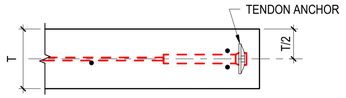


A **DETAIL AT STRESSING END ANCHORS**



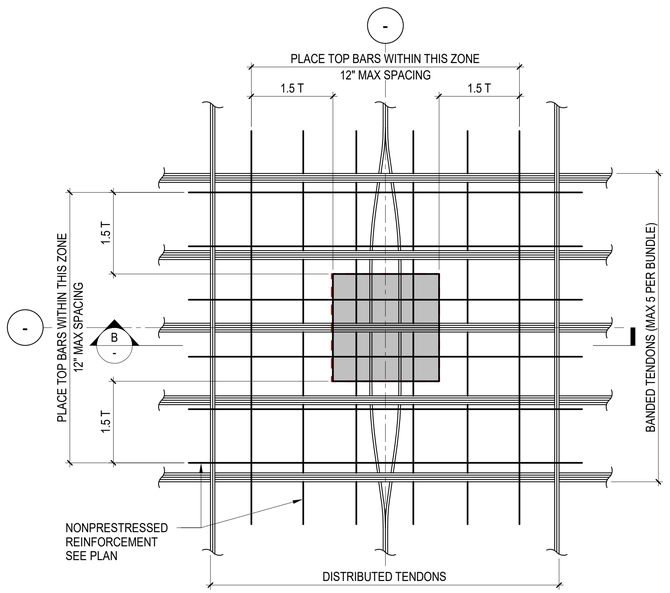
NOTES:

1. SEE DETAILS AT STRESSING END FOR INFORMATION NOT SHOWN

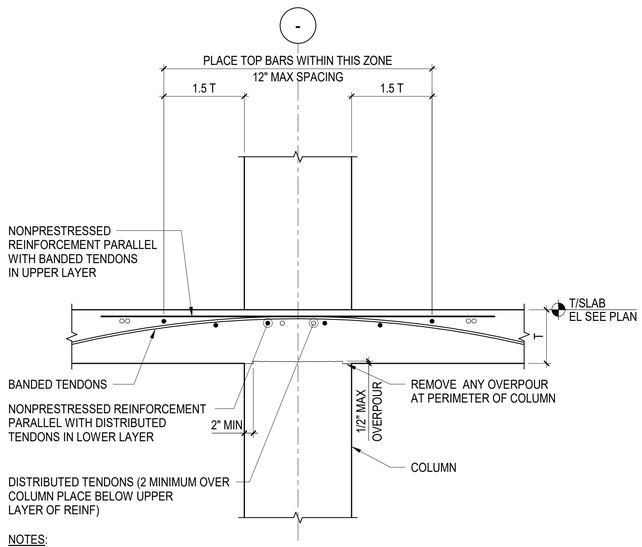
B **DETAIL AT DEAD END ANCHORS**

1 TYPICAL POST-TENSIONED TWO-WAY FLAT PLATE DETAILS AT DISTRIBUTED TENDONS

SCALE: NOT TO SCALE



A **PLAN VIEW AT COLUMN**



NOTES:

1. PROVIDE MINIMUM 2 TENDONS EACH WAY OVER COLUMN
2. DISTRIBUTED TENDONS AT COLUMN TO BE PLACED UNDER BANDED TENDONS

B **SECTION AT COLUMN**

2 TYPICAL POST-TENSIONED TWO-WAY FLAT PLATE DETAILS AT COLUMN

SCALE: NOT TO SCALE

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ARQUITECTONICA

OWNER:
Capital Group P3
55 NE 5th Avenue, Suite 501
Boca Raton, FL 33432
TEL:561.705.5353

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300 • FL CA#7519

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KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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ISHOF
1 Hall of Fame Drive, Fort Lauderdale, FL 33316

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Derek A. Wassink • FL PE# 55303

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PROJECT NORTH:

DRAWING TITLE
TYPICAL POST-TENSIONED TWO-WAY SLAB DETAILS II

PROJECT NUMBER: 010326.000

SCALE: As indicated

SHEET
S4-503

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MECHANICAL LEGEND

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

PIPING LEGEND

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE 2020 FLORIDA BUILDING CODE (FBC), 2020 FLORIDA MECHANICAL CODE (FMC), 2020 FLORIDA ENERGY CONSERVATION CODE (FECC) AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS; SMACNA/ANSI-2016, SMACNA-12; ASHRAE 15-2019, 34-2019, 55-10, 62.1-2016, 90.1-2016; NFPA 70-2017, 72-2016, 90A-2015, 90B-02, 91-2015, 96-2017, 101-06; ANSI Z10.1-98, Z10.3-98, Z21.8-94, Z21.83-98.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
4. THE CONTRACTOR SHALL SUPPLY THE BUILDING OWNER WITH "AS-BUILT" DRAWINGS AND PROVIDE TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAY AFTER THE DATE OF SYSTEM ACCEPTANCE WITH AN OPERATING MANUAL AND A MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT.
5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF A COMPLETE SET OF SHOP DWGS, (INCLUDING DUCTWORK) MANUFACTURER'S SUBMITTALS FOR EACH PIECE OF EQUIPMENT AND CONTROLS SUBMITTAL INCLUDED IN CONTRACT.
6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED. ALL INSTALLATIONS SHALL COMPLY WITH 2020 FMC, CH. 3, GENERAL REGULATIONS.

   SPECIAL NOTE:

   CONTRACTOR SHALL UTILIZE NON-FERROUS MATERIALS OR PROVIDE CORROSION COATING FOR ALL OUTDOOR EXPOSED METAL/STEEL EQUIPMENT, SUPPORTS, STANDS, FASTENERS, ETC. BY 3RD PARTY AS APPLIED BY BLYGOLD, LUVATA, ADVANCOAT (ENSEAL CR) OR APPROVED EQUAL WITH STANDARD 5-YEAR WARRANTY.
7. DUCTWORK:

   ALL DUCT WORK SHALL BE CONSTRUCTED, INSULATED, SEALED AND SUPPORTED IN ACCORDANCE WITH 2020 FECC SECTION C403.2.9, 2020 FMC SECTION 603.9 AND LATEST EDITION OF S.M.A.C.N.A. MANUAL, WHERE ALTERNATE DESIGN DETAILS ARE SHOWN IN THE STANDARDS, THE HIGHEST QUALITY DESIGN DETAIL SHALL BE PROVIDED.

   DUCT SIZING IS COMPLIANT WITH FBC SEC. 603.2 BASED ON ASHRAE "EQUAL FRICTION" METHOD, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.

   ALL DUCT WORK SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 12 FEET AND SHALL BE IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE"

   A. ALL AIR CONDITIONING DUCTWORK (MEDIUM PRESSURE); UPSTREAM OF VAV BOXES AND RETURN AIR INSIDE MECHANICAL ROOM SHALL BE GALVANIZED SHEET-METAL WITH SEALED SEAMS AND JOINTS AND SHALL BE PROVIDE WITH 1" INTERNALLY LINED (MIN. 15' FROM THE AC UNIT). OUTSIDE OF THE MECHANICAL ROOM PROVIDE SHEET METAL DUCT WITH EXTERNAL BLANKET INSULATION MIN. R-4.2.
   B. ALL AIR CONDITIONING DUCT WORK (LOW PRESSURE); SUPPLY AIR DOWNSTREAM OF VAV BOXES, RETURN AIR DUCT OUTSIDE OF THE MECHANICAL ROOM AND TRANSFER AIR DUCTS SHALL BE SHALL BE GALVANIZED SHEET-METAL WITH SEALED SEAMS AND JOINTS WITH EXTERNAL BLANKET INSULATION MIN. R-4.2.
   C. ALL OUTSIDE AIR AND EXHAUST AIR DUCT WORK SHALL BE NEW GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. FOR OUTSIDE AIR DUCT PROVIDE EXTERNAL BLANKET INSULATION R-4.2 MIN.
   D. ALL AIR CONDITIONING DUCT WORK ENCLOSED IN A CHASE SHALL BE SHEETMETAL GALVANIZED WITH EXTERNAL BLANKET INSULATION R-4.2 MIN.
   E. ALL OUTDOOR EXPOSED DUCTWORK SHALL BE GALVANIZED, DOUBLE WALL SHEETMETAL EQUAL TO UNITED McGILL "K-27", WITH MIN. R-8 INSULATION, SEALED SEAMS AND JOINTS AND ANTI-CORROSION COATING..
   F. ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS MIN. R-4.2. FLEX DUCT SHALL COMPLY WITH 2020-FECC TABLE C403.2.9.1. INSTALL UL LISTED FOR PLENUM, FLEXIBLE DUCTWORK ELBOW SUPPORTS AT EACH DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW ELBOW" AS MANUFACTURED BY "THERMAFLEX". THE USE OF FLEXIBLE DUCTWORK IS LIMITED TO ONLY CONNECTIONS BETWEEN DUCT BRANCHES AND DIFFUSER.
   G. WHERE SPECIFIED, AIR CONDITIONING DUCT LINER SHALL BE OF 1" (R-4.2) FIBERGLASS WITH A HIGH-TENSILE, RESISTANT MAT COATING, EQUAL TO "SUPERDUCT" BY MANVILLE OR "TOUGHGARD" BY CERTAINTEED, AND ANTI-MICROBIAL PROPERTIES. ALL DUCT LINERS MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NAIMA" FIBROUS GLASS DUCT LINER STANDARDS OR "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS AND THE PROJECT SPECIFICATION. LINER PRODUCTS SHALL BE ADHERED TO THE SHEET METAL DUCTWORK USING AN ADHESIVE MEETING THE REQUIREMENTS OF ASTM C916.

   THE CONTRACTOR SHALL PROVIDE ALL SHEET METAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC. AND SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA "DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE" LAST EDITION.

   ALL INSULATED, AND UN-INSULATED DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.

   SUPPLY AND RETURN DUCTWORK HAVE BEEN SIZED WITH A PRESSURE DROP NO GREATER THAN 0.08"WG/100'. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.

   SPECIAL NOTE

   SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES.

   NONMETALLIC DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL AND SHALL COMPLY WITH UL 181. THE AIR TEMPERATURE WITHIN NONMETALLIC DUCTS SHALL NOT EXCEED 250°F (121°C) PER FMC 2020 SEC 603.5.
8. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/ SINGLE FOIL TURNING VANES.
9. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. ALL AIR DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. VOLUME CONTROL DAMPERS SHALL BE PROVIDED IN THE BRACH DUCTS OR AT EACH INDIVIDUAL DUCT REGISTER, GRILLE OR DIFFUSER. EACH VOLUME CONTROL DAMPER USED IN BALANCING SHALL BE PROVIDED WITH ACCESS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS "YOUNG REGULATOR" OR EQUAL IN INACCESSIBLE AND HARD CEILING TO ENSURE COMPLIANCE WITH 2020 FMC, PAR. 603.18. REFER TO FLOOR PLANS FOR LOCATION.
11. PROVIDE FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND RADIATIONS DAMPERS AT THE LOCATION PRESCRIBED IN 2020 FMC SECTIONS 607.5.1 THROUGH 607.5.7. DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH 2020 FMC SECTION 607.2 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LISTING. DAMPERS TESTING, RATINGS AND ACTUATION SHALL BE IN ACCORDANCE WITH 2020 FMC SECTIONS 607.3.1 THROUGH 607.3.3. DAMPERS SHALL BE PROVIDED WITH ACCESS AND IDENTIFICATION IN ACCORDANCE WITH 2020 FMC SECTION 607.4. ALL FIRE DAMPER SHALL BE DYNAMIC WITH BLADE OUT OF AIR STREAM TYPE AND SERVICE ACCESS DOOR.
12. PROVIDE SMOKE DETECTORS WITH SERVICE ACCESS DOORS IN ALL AIR DISTRIBUTION SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2OOO CFM COMPLIANT WITH 2020 FMC SEC. 606. FOR SMOKE DETECTORS NOT VISIBLE, IN CONCEALED SPACES, PROVIDE REMOTE ANNUNCIATION/TEST STATION AS REQUIRED BY AUTHORITY HAVING JURISDICTION, COORDINATE PRIOR TO INSTALLATION. DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.

    SPECIAL NOTE

    ALL INSTALLED ELECTRICAL DEVICES, ACTUATORS, APPURTENANCES, AUXILIARY EQUIPMENT, ETC. REQUIRING ENVIRONMENTAL PROTECTION SHALL BE PROVIDED WITH ADEQUATE NEMA ENCLOSURES FOR THE CONDITIONS WHERE INSTALLED, WEATHER INDOORS OR OUTDOORS, EVEN IF NOT SPECIFICALLY INDICATED ON PLANS.
13. PROVIDE ACCESS DOOR FOR ACCESS ALL FIRE DAMPERS, SMOKE DETECTORS, VOLUME DAMPERS, MOTOR OPERATED DAMPERS AND OTHER ITEMS LOCATED IN DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.
14. ALL OUTDOOR AIR INTAKE AND EXHAUST OPENING SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPER TO COMPLY WITH 2020 FECC, SECTION C403.2.4.3.
15. AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSION RESISTANCE SCREENS, LOUVERS OR GRILLES. OPENINGS IN LOUVERS, GRILLES AND SCREENS SHALL BE SIZED IN ACCORDANCE WITH 2020 FMC TABLE 401.5. OUTDOORS OPENINGS LOCATED IN EXTERIOR WALLS SHALL MEET THE PROVISIONS FOR EXTERIOR WALL OPENING PROTECTIVE IN ACCORDANCE WITH THE 2020 FBC.

    O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER VENT OUTLET, UNLESS SUCH VENT IS NOT LESS THAN 24 INCHES ABOVE THE OUTSIDE AIR VENT. TO COMPLY WITH 2020 FMC SECTION 401.4.
16. BUILDING TEMPERATURE & HUMIDITY CONTROLS: CONTRACTOR SHALL PROVIDE A FULLY INTEGRATED BUILDING CONTROL SYSTEM (BAS). WHERE APPLICABLE, PROVIDE BAS INTERFACE MODULE FOR ALL HVAC EQUIPMENT, AS REQUIRED BY THE DESIGN DOCUMENTS. IN ADDITION AND AS APPLICABLE:

    A. FOR DX SYSTEMS (COMMON AREAS): PROVIDE PROGRAMMABLE THERMOSTAT WITH COOLING/HEATING, "COOL-AUTO- HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES AND BACNET COMMUNICATION CAPABILITY.

    B. FOR STANDALONE DX SYSTEMS: PROVIDE PROGRAMMABLE THERMOSTAT WITH COOLING/HEATING, "COOL-AUTO- HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES.

    C. PROVIDE ROOM TEMPERATURE, HUMIDITY AND CO2 SENSOR AS REQUIRED, SEE FLOOR PLAN FOR LOCATION. .

    E. POWER PROVISIONS : SHALL BE FURNISHED AND INSTALLED BY ELEC. CONTRACTOR UNLESS OTHERWISE NOTED, CONTROL WIRING BY MECH/CONTROL CONTRACTOR.

    - 24V TRANSFORMER SHALL BE PROVIDED BY MANUFACTURER FOR ALL UNITS/EQUIPMENT THAT REQUIRE CONTROL POWER FOR UNITARY CONTROLLERS, IF NOT OTHERWISE NOTED.
    - 120V POWER AS REQUIRED BY SYSTEM CONTROLLERS SHALL BE PROVIDED/COORDINATED BY ELECTRICAL CONTRACTOR WITH MECHANICAL AND CONTROLS CONTRACTORS.

    THERMOSTAT, TEMPERATURE AND HUMIDITY SENSOR LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL TEMPERATURE AND HUMIDITY SENSORS 48" A.F.F. PER A.D.A REQUIREMENTS WHERE APPLICABLE. PROVIDE SOFTWARE LOCK AND/OR TAMPER PROOF COVERS AS COORDINATED WITH OWNER/END CLIENT.

    SPECIAL NOTE

    WHENEVER THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT, SIDE BY SIDE, THEY SHALL BE GANGED TOGETHER WITHIN THE SAME COVER PLATE WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE THIS ISSUE WITH OWNER PRIOR TO INSTALLATION AND SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION.
17. PROVIDE NEW FILTERS MINIMUM MERV 8 FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER TO COMPLY WITH WITH ASHRAE 62.1-2016
18. INSULATION:
    A. ALL INSULATION PRODUCTS SHALL BE FREE OF FORMALDEHYDE.
    B. ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIR FLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED.
    C. INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED APPLICABLE INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) C578 91.
    D. ALL INSULATION SHALL BE LOW EMITTING WITH NOT GREATER THAN 0.05 PPM FORMALDEHYDE EMISSIONS.
    E. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
19. RUN INSULATED FIRE RATED CONDENSATE DRAINS AS REQUIRED.
20. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH 2020 FMC PAR. 306.5 IF INSTALLED HIGHER THAN 16 FEET A.F.F. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO MECHANICAL DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON CONCRETE PADS AT GRADE LEVEL, SIZED PER STRUCTURAL PLANS.

    SPECIAL NOTE:

    ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR OUTDOOR MOUNTED MECHANICAL EQUIPMENT AS REQUIRED BY FBC 2020, SEC. 1509, 1522 AND CHAPTER 16, SHALL BE PROVIDED BY A STRUCTURAL ENGINEER AND ARE SHOWN ON THESE PLANS FOR REFERENCE ONLY.

    SUCH CALCULATIONS SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER OR BY THE GENERAL OR MECHANICAL CONTRACTOR ON BEHALF OF CLIENT.

    CONTRACTOR TO PROVIDE WIND LOAD CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER IN ORIGINAL FOR COMPLIANCE WITH SEC. 301.15 OF FMC 2020, INCLUDING ANY DOCUMENTATION REQUIRED BY LOCAL JURISDICTION FOR PERMIT PURPOSES, SUCH AS N.O.A CERTIFICATES.
21. HVAC CONTRACTOR SHALL PROVIDE VENTILATION CONTROLS COMPLIANT WITH FMC 2020, SEC. 403.3.1.3-403.3.1.5 AND 405. FOR ALL SYSTEMS AND SHALL VERIFY EXISTING CONDITIONS FOR COMPLIANCE, AS REQUIRED, FOR A FULLY OPERATIONAL SYSTEM.

    VENTILATION FOR ENCLOSED PARKING GARAGES SHALL COMPLY WITH FMC 2020, SEC. 404.
22. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 277, 240 AND 480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC-2017.
23. CLEARANCE FOR MAINTENANCE, SERVICE, REPAIRS, AND REPLACEMENT FOR ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED TO COMPLY WITH 2020 FMC, SEC. 306. SERVICE ACCESS PANELS FOR MECHANICAL EQUIPMENT IN CONCEALED SPACES SHALL BE PROVIDED TO COMPLY WITH THE REQUIREMENTS OF SEC. 306.
24. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS. AUXILIARY DRAIN PANS SHALL BE INSTALLED UNDER ALL COILS ON WHICH CONDENSATION CAN OCCUR AND UNDER ALL UNITS IN CONCEALED SPACES OR ANY AREA WHERE BUILDING DAMAGE CAN OCCUR AS A RESULT OF AN OVERFLOW, TO COMPLY WITH 2020 FMC, PAR. 307.2. AN ALTERNATE WATER-DETECTION LEVEL DEVICE OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE EQUIPMENT IS ACCEPTABLE. SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.
25. ALL CONDENSER WATER PIPING (CWP) SHALL BE MINIMUM SCHEDULE 40 BLACK STEEL. HYDRONIC PIPING SYSTEMS SHALL COMPLY WITH 2020 FMC, CH 12. HYDRONIC PIPING SYSTEMS SHALL BE TESTED HYDROSTATICALLY AT ONE AND ONE HAFT TIMES THE MAXIMUM SYSTEM DESIGN PRESSURE, BUT NOT LESS THAN 100 PSI. JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE MADE WITH APPROVED ADAPTER FITTINGS AND JOINTS BETWEEN DIFFERENT METALLIC PIPING MATERIALS SHALL BE MADE WITH APPROVED DIELECTRIC FITTINGS OR BRASS CONVERTER FITTINGS.
26. REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCuP SERIES COPPER-PHOSPHORUS ALLOY OR BAg1 SILVER ALLOY.

    REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.

    ARMAFLEX INSULATION SHALL BE USED FOR REFRIGERANT SUCTION LINES. ALL EXPOSED INSULATION SHALL BE PROTECTED WITH A PROTECTIVE, PUNCTURE AND TEAR RESISTANT JACKETING SYSTEM EQUAL TO "VENTURE CLAD". AND COMPLY WITH FMC 2020, SEC.1101.3 PROTECTION. MINIMUM REFRIGERANT PIPING INSULATION SHALL BE AS PER 2020 FECC TABLE C403.2.10 AND ASHRAE 90.1-2016 TABLE 6.8.3. INCLUDING FOOTNOTES.
27. CONDENSER WATER PIPING AND REFRIGERANT PIPING SUPPORT SHALL BE AS PER 2020 FMC, SECTION 305 AND TABLE 305.4 INCLUDING FOOTNOTES.
28. MATERIALS ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM SHALL COMPLY WITH FMC 2020, SEC. 602.2.1. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING. STUD CAVITIES AND JOIST SPACE PLENUMS SHALL COMPLY WITH FMC 2020, SEC. 602.3.
29. HVAC CONTRACTOR SHALL PROVIDE A T&B REPORT PER 2020 FECC, SECTION C408.2.2 FOR ALL MECHANICAL SYSTEMS. THE T&B REPORT SHALL BE IN ACCORDANCE WITH THE AABC OR NEBB STANDARDS AND PROCEDURES AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM COOLING AND HEATING COILS AND ENERGY RECOVERY UNITS.

    FOR SYSTEMS OVER 15 TONS, THE T&B SHALL BE PERFORMED BY A CERTIFIED, INDEPENDENT COMPANY.

    EXCEPTIONS:

    1. BUILDINGS WITH COOLING OR HEATING SYSTEM CAPACITIES OF 15 TONS OR LESS PER SYSTEM MAY BE TESTED AND BALANCED BY A MECHANICAL CONTRACTOR LICENSED TO DESIGN AND INSTALL SUCH SYSTEM(S).
    2. BUILDINGS WITH COOLING OR HEATING SYSTEM CAPACITIES OF 65,000 BTU/H OR LESS PER SYSTEM ARE EXEMPT FROM THE REQUIREMENTS OF THIS SECTION.

    A. AIR SYSTEMS BALANCING; SHALL BE ACCOMPLISHED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES. THEN, FOR FANS WITH FAN SYSTEM POWER GREATER THAN 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITION.
    B. HYDRONIC SYSTEM ; SHALL BE PROPORTIONATELY BALANCE IN MANNER TO FIRST MINIMIZED THROTTLING LOSSES, THEN THE PUMP IMPELLER SHALL BE TRIMMED OR PUMP SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.
    C. CONTROL SYSTEMS: SHALL BE TESTED TO ENSURE THAT CONTROL ELEMENTS ARE CALIBRATED, ADJUSTED, AND IN PROPER WORKING CONDITIONS.

    WRITTEN BALANCE REPORT SHALL BE PROVIDED TO THE OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER.

    BUILDING ENVELOPE SHALL BE POSITIVELY PRESSURIZED TO PREVENT INFILTRATION PER FECC 2020, SEC. C408.2.2.1 NOTE #1.
30. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS.

    DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.

    SPECIAL NOTE:

    AS PART OF BID, CONTRACTOR SHALL INCLUDE COSTS NECESSARY TO MAKE ONE CHANGE IN EACH UNITS SHEAVE, BUSHINGS AND BELTS, BALANCING DAMPERS REQUIRED AND ANY OTHER DEVICES REQUIRED FOR THE CORRECT BALANCE OF THE SYSTEM AS REQUIRED BY THE TAB FIRM.
31. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.
32. CORROSION COATING: CONTRACTOR SHALL PROVIDE CORROSION COATING TO CONDENSER/EVAPORATOR COILS, EQUIPMENT CASINGS/CABINETS AND ALL EXPOSED COPPER PIPING/ COMPRESSORS/ CONDENSER SECTION, AS WELL AS, ANY EXPOSED METAL WITHIN AIRSTREAM BY 3RD PARTY AS APPLIED BY BLYGOLD, LUVATA, ADVANCOAT OR APPROVED EQUAL WITH STANDARD 5-YEAR WARRANTY.
33. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. CONTRACTOR SHALL INSPECT ALL EXISTING AND NEW COMPONENTS OF THE MECHANICAL SYSTEMS AND ENSURE THAT ALL ARE OPERATIONAL AND WORKING AS SHOWN ON THE APPROVED CD PLANS AT THE TIME OF C.O. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK.

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COMMISSIONING NOTES

MECHANICAL SYSTEMS SHALL BE COMMISSIONED IN COMPLIANCE WITH FECC-2020, SEC. C408, WITH THE TWO LISTED EXCEPTIONS. THE OWNER/MECHANICAL CONTRACTOR SHALL PROVIDE TO THE E.O.R. DESIGN PROFESSIONAL ALL NECESSARY DOCUMENTATION REQUIRED BY THE BUILDING OFFICIAL PRIOR TO FINAL INSPECTION, PROVING EVIDENCE OF SYSTEMS COMMISSIONING PER SEC. C408.2.4 AND C408.2.5.

a. A COMMISSIONING PLAN SHALL BE COMPLETED AND CERTIFIED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY PER SEC. 408.2.1.

b. A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER. THE REPORT SHALL BE IDENTIFIED AS PRELIMINARY COMMISSIONING REPORT" PER SEC. C408.2.4.

c. THE COMMISSIONING DOCUMENTS SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY PER SEC. C408.2.5 AND SHALL INCLUDE: 1) DRAWINGS, 2) MANUALS, 3) SYSTEM BALANCING REPORT, AND 4) FINAL COMMISSIONING REPORT.

d. LIGHTING SYSTEM FUNCTIONAL TESTING: CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH SECTION C408.3.

HVAC ABBREVIATION LEGEND

AC- AIR CONDITIONING
AFF- ABOVE FINISH FLOOR
AHU- AIR HANDLING UNIT
APD- AIRE PRESSURE DROP
AS- AIR SEPARATOR
BDD- BACK DRAFT DAMPER
CD- CONDENSATE DRAIN
CFP- CHEMICAL FEED PUMP
COP - COEFFICIENT OF PERFORMANCE
CT- COOLING TOWER
CU- CONDENSING UNIT
CWP- CONDENSER WATER PUMP
CWR- CONDENSER WATER RETURN
CWS- CONDENSER WATER SUPPLY
DB - AIR DRY BULB TEMPERATURE
EA- EXHAUST AIR
EER- ENERGY EFFICIENCY RATIO
EF- EXHAUST FAN
ERU- ENERGY RECOVERY UNIT
ESP- EXTERNAL STATIC PRESSURE
ET- EXPANSION TANK
EWT- ENTERING WATER TEMPERATURE
FD- FIRE DAMPER
FLA- FULL LOAD AMPS
GPM- GALLONS PER MINUTE
HE- HEAT EXCHANGER

HP- HEAT PUMP
HSPF- HEATING SEASONAL PERFORMANCE RATING
IEER- INTEGRATED ENERGY EFFICIENCY RATIO
IL- INTAKE LOUVER
LWT- LEAVING WATER TEMPERATURE
MCA- MINIMUM CIRCUIT AMPS (FOR WIRE SIZING)
MD - MOTORIZED DAMPER
MOCP- MAXIMUM OVER CURRENT PROTECTION DEVICE AMPS
MOD- MANUALLY OPERATED DAMPER
NC- NOISE CRITERIA
OA- OUTSIDE AIR
OBD- OPPOSED BLADE DAMPER
PD- PRESSURE DROP
RA- RETURN AIR
RL- RELIEF LOUVERED
RLA- RATED LOAD AMPS.
RTU- ROOFTOP AC UNIT
SEER- SEASONAL ENERGY EFFICIENCY RATIO
SF- SUPPLY FAN
TSP- TOTAL STATIC PRESSURE
VD- VOLUME CONTROL DAMPER
VFD- VARIABLE FREQUENCY DRIVE
WB- AIR WET BULB TEMPERATURE
WPD- WATER PRESSURE DROP
WSHP- WATER SOURCE HEAT PUMP

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLANS.

WARNING !!!

FLOOR SLABS IN THIS BUILDING ARE POST TENSIONED AND MUST BE X-RAYED PRIOR TO CORE DRILLING OR OTHER PENETRATIONS.

CONTRACTOR SHALL COORDINATE WITH STRUCTURAL ENGINEER AND OWNER TO OBTAIN PERMISSION BEFORE COMMENCING ANY SLAB PENETRATIONS.

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

Certification of Authorization #8189

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
MECHANICAL NOTES

PROJECT NUMBER: 010326.000
DATE: 04/29/22
SCALE: 12" = 1'-0"

SHEET
M0-001

WEST BLDG.-SMOKE CONTROL PANEL GENERAL NOTES

1. PROVIDE ALL LOGIC FOR THE EMERGENCY SMOKE CONTROL SYSTEM AS PART OF THE FIRE ALARM SYSTEM.
2. PANEL SHALL BE COMPLETE WITH INDICATOR LIGHTS AND H-O-A SWITCHES AT FANS AND DAMPERS AS INDICATED.
3. ALL PANEL COMPONENTS SHALL BE UL APPROVED FOR FIRE/SMOKE OPERATION.
4. LOCATE EQUIPMENT IN FIRE CONTROL ROOM; SEE WITH ELECTRICAL PLANS.
5. REFER TO SEQUENCE OF OPERATIONS ON THIS DWG. THE FIRE ALARM PANEL WILL PROVIDE ALL NECESSARY SIGNALS FOR ALL ASSOCIATED FANS, DAMPERS, AIR CONDITIONING UNITS, ETC.
6. PROVIDE POSITIVE FAN AND DAMPER POSITION/STATUS VERIFICATION. FAN VERIFICATION MAY BE PROVIDED BY SAIL SWITCHES OR CURRENT SENSING. DAMPER VERIFICATION MAY BE PROVIDED BY MERCURY SWITCHES.
7. SMOKE CONTROL PANEL MOUNTS IN MAIN FIRE ALARM CONTROL ROOM, COORDINATE WITH FIRE ALARM CONTRACTOR.
8. THE SMOKE CONTROL PANEL SHALL COMPLY WITH UL SMOKE CONTROL REQUIREMENTS (CATEGORY UUKL) AND 92B STANDARDS FOR SMOKE CONTROL.
9. F.A. CONTRACTOR TO PROVIDE SMOKE-EVAC CONTROL PANEL AS PART OF FIRE ALARM SYSTEM.
10. F.A. CONTRACTOR TO PROVIDE MODULES FOR INTERFACE AS NECESSARY.
11. THE SMOKE CONTROL MODE SHALL BE INDICATED WITHIN 10 SECONDS AFTER AN AUTOMATIC OR MANUAL ACTIVATION COMMAND IS RECEIVED AT THE SMOKE CONTROL SYSTEM.
12. THE SMOKE CONTROL SYSTEM SHALL ACTIVATE INDIVIDUAL COMPONENTS (E.G. DAMPERS, FANS) IN THE SEQUENCE NECESSARY TO PREVENT DAMAGE TO THE FANS, DAMPERS, DUCTS AND OTHER EQUIPMENT.
13. THE SMOKE CONTROL SYSTEM SHALL PROVIDE STATUS INDICATION, FAULT CONDITION INDICATION AND MANUAL CONTROL FOR ALL SMOKE CONTROL SYSTEM COMPONENTS. ALL CONTROLS OF THE SMOKE CONTROL SYSTEM THAT CAN SHUT THE SYSTEM OFF MUST BE MONITORED BY THE SYSTEM.
14. STATUS INDICATORS AND CONTROLS SHALL BE ARRANGED AND LABELED TO CONVEY THE INTENDED SYSTEM OBJECTIVES.
15. OPERATOR CONTROL, STATUS INDICATION AND FAULT INDICATION SHALL BE PROVIDED FOR EACH SMOKE-CONTROLS ZONE, EACH PIECE OF EQUIPMENT CAPABLE OF ACTIVATION FOR SMOKE CONTROL OR A COMBINATION OF THESE APPROACHES.
16. POSITIVE STATUS INDICATION SHALL BE PROVIDED INDIVIDUALLY OR BY ZONE IN ACCORDANCE WITH NFPA 92A, SEC.6.4.3.7.5 FOR THE FOLLOWING.

a. DEDICATED SMOKE-CONTROLS SYSTEM FANS.
b. NON-DEDICATED FANS USED FOR SMOKE CONTROL HAVING A CAPACITY IN EXCESS OF 2000 FT³/MIN (57 M³/MIN).
c. EVERY DEDICATED SMOKE-CONTROL SYSTEM AND EACH DEDICATED SMOKE-CONTROL SUBSYSTEM IN A NON-DEDICATED SMOKE-CONTROL SYSTEM SHALL HAVE A MEANS OF VERIFYING CORRECT OPERATION WHEN ACTIVE.

17. VERIFICATION SHALL INCLUDE POSITIVE CONFIRMATION OF ACTUATION, TESTING, MANUAL OVERRIDE, AND THE PRESENCE OF OPERATING POWER DOWNSTREAM OF ALL CIRCUIT DISCONNECTS.
18. FAILURE TO RECEIVE POSITIVE CONFIRMATION AFTER ACTIVATION OR CESSATION OF SUCH POSITIVE CONFORMATION WHILE THE SYSTEM OR SUBSYSTEM REMAINS ACTIVATED SHALL RESULT IN A FAULT AND OFF NORMAL INDICATION AT THE SMOKE-CONTROL SYSTEM WITHIN 200 SECONDS.
19. MANUAL ACTIVATION AND DEACTIVATION. MANUAL ACTIVATION OR DEACTIVATION MANUAL ACTIVATION OR DEACTIVATION OF ZONED SMOKE-CONTROL SYSTEM AND EQUIPMENT SHALL HAVE PRIORITY OVER AUTOMATIC ACTIVATION OF SMOKE-CONTROL SYSTEM AND EQUIPMENT, AS WELL AS OVER ALL OTHER OTHER SOURCES OF AUTOMATIC CONTROL WITHIN THE BUILDING.
20. PROVISION SHALL BE INCLUDED FOR TESTING THE PILOT LAMPS ON THE FSCS SMOKE-CONTROL PANEL(S) BY MEANS OF ONE OR MORE LAMP TESTS, MOMENTARY PUSH BUTTONS, OR OTHER SELF-RESTORING MEANS.
21. SMOKE DETECTOR SHALL BE PROVIDED IN THE AIR SUPPLY TO THE PRESSURIZED STAIRWELL. ON DETECTION OF SMOKE IN THE AIR SUPPLY, THE SUPPLY FAN(S) SHALL BE STOPPED BUT ABLE TO MANUALLY STATED VIA FSCS.
22. ON-AUTO-OFF CONTROL OVER EACH INDIVIDUAL PIECE OF OPERATING SMOKE-CONTROL EQUIPMENT THAT CAN ALSO BE CONTROLLED FROM OTHER SOURCES WITHIN THE BUILDING. CONTROLLED COMPONENTS INCLUDE PRESSURIZATION FANS; SMOKE EXHAUST FANS; HVAC SUPPLY, RETURN, AND EXHAUST FANS IN EXCESS OF 2000 FT3/MIN (57 M3/MIN); ANY SUPPLY AND EXHAUST FANS INTENDED FOR SMOKE-CONTROL PURPOSE.
23. ON-OFF OR OPEN-CLOSE CONTROL OVER ALL SMOKE-CONTROL AND OTHER CRITICAL EQUIPMENT ASSOCIATED WITH A FIRE OR SMOKE EMERGENCY AND THAT CAN BE CONTROLLED ONLY FROM THE FSCS.
24. OPEN-AUTO-CLOSE CONTROL OVER ALL INDIVIDUAL DAMPERS RELATING TO SMOKE CONTROL AND THAT ARE ALSO CONTROLLED FROM OTHER SOURCES WITHIN THE BUILDING. HVAC TERMINAL UNITS, SUCH AS VAV MIXING BOXES THAT ARE ALL LOCATED WITHIN AND SERVE ONE DESIGNATED SMOKE-CONTROL ZONE CAN BE CONTROLLED COLLECTIVELY IN LIEU OF INDIVIDUALLY. HVAC UNIT COIL FACE BYPASS DAMPERS THAT ARE ARRANGED SO AS NOT RESTRICTED OVERALL AIRFLOW WITHIN THE SYSTEM CAN BE EXEMPTED. ADDITIONAL CONTROLS MIGHT BE REQUIRED BY AUTHORITY HAVING JURISDICTION. CONTROL ACTION AND PRIORITIES. THE FSCS CONTROL ACTION SHOULD BE AS FOLLOWS.
25. ON-OFF, OPEN-CLOSE. THESE CONTROL ACTIONS SHOULD HAVE THE HIGHEST PRIORITY OF ANY CONTROL POINT WITHIN THE BUILDING. ONCE ISSUED FROM THE FSCS, NO AUTOMATIC OR MANUAL CONTROL FROM ANY OTHER CONTROL POINT WITHIN THE BUILDING SHOULD CONTRADICT THE FSCS CONTROL ACTION.
26. IF AUTOMATIC MEANS ARE PROVIDED TO INTERRUPT NORMAL NON-EMERGENCY EQUIPMENT OPERATION OR PRODUCE A SPECIFIC RESULT TO SAFEGUARD THE BUILDING OR EQUIPMENT (E.G.,DUCT FREEZESTATS, DUCTS SMOKE DETECTORS, HIGH-TEMPERATURE CUTOUTS, TEMPERATURE-ACTUATED LINKAGE, AND SIMILAR DEVICES). SUCH MEANS SHOULD BE CAPABLE OF BEING OVERRIDDEN OR RESET TO LEVELS NOT EXCEEDING LEVELS OF IMMINENT SYSTEM FAILURE, BY FSCS CONTROL ACTION, AND THE LAST CONTROL ACTION AS INDICATED BY EACH FSCS SWITCH POSITION SHOULD PREVAIL.

   CONTROL ACTIONS ISSUED FROM THE FSCS SHOULD NOT OVERRIDE OR BYPASS DEVICES AND CONTROLS INTENDED TO PROTECT AGAINST ELECTRICAL OVERLOADS. PROVIDE FOR PERSONNEL SAFETY, AND PREVENT MAJOR SYSTEM DAMAGE. THESE DEVICES INCLUDE OVERCORRECT PROTECTION DEVICES AND ELECTRICAL DISCONNECT SWITCHES.

   HIGH-LIMIT STATIC PRESSURE SWITCHES, AND COMBINATION FIRE/SMOKE DAMPERS BEYOND THEIR DEGRADATION TEMPERATURE. CLASSIFICATIONS MEETING UL 555, STANDARD FOR FIRE DAMPERS , OR UL 5555, STANDARD FOR SMOKE DAMPERS.
27. AUTO ONLY THE POSITION OF EACH THREE-POSITION FSCS CONTROL SHOULD ALLOW AUTOMATIC OR MANUAL CONTROL ACTION FROM OTHER CONTROL POINTS WITHIN THE BUILDING, THE AUTO POSITION SHOULD BE THE NORMAL, NON-EMERGENCY, BUILDING , CONTROL POSITION. WHEN AN FSCS CONTROL IS IN THE AUTO POSITION, THE ACTUAL STATUS OF THE DEVICE (ON, OFF, OPEN, CLOSED) SHOULD CONTINUE TO BE INDICATED BY THE STATUS INDICATOR(S).
28. FSCS RESPONSE TIME FOR PURPOSE OF SMOKE CONTROL, THE FSCS RESPONSE TIME SHOULD BE THE SAME AS FOR AUTOMATIC OR MANUAL SMOKE-CONTROL. ACTION INITIATED FROM ANY OTHER BUILDING CONTROL POINT, FSCS PILOT LAMP INDICATION OF THE ACTUAL STATUS OF EACH PIECE OF EQUIPMENT SHOULD NOT EXCEED 15 SECONDS AFTER OPERATION OF THE RESPECTIVE FEEDBACK DEVICES.

WEST BUILDING- SMOKE CONTROL MODE SEQUENCE OF OPERATION:

TO BE EDIT

THE SMOKE CONTROL MODE (EMERGENCY) SEQUENCE DESCRIBED BELOW IS BASED ON THE RATIONAL ANALYSIS REPORT AND ALWAYS TAKES PRECEDENCE OVER THE NORMAL AND SMOKE PURGE MODE SEQUENCE OF OPERATION. THE OPERATION SHALL BE BASED UPON THE FIRE ALARM STATUS AND FIREFIGHTERS SMOKE CONTROL STATION (FSCS) STATUS OF THE BUILDING. SMOKE CONTROL IN THE AUTOMATIC OR MANUAL MODES SHALL BE AVAILABLE REGARDLESS OF THE POSITION OF THE INDIVIDUAL EQUIPMENT HAND-OFF-AUTOMATIC SWITCHES.
THE SMOKE-CONTROL SYSTEM SHALL BE CAPABLE OF MANUALLY BRINGING THE ENTIRE BUILDING INTO SMOKE CONTROL IN EMERGENCY MODE.

UPON FIRE ALARM ACTIVATED BY WATER FLOW OR SMOKE DETECTOR ANYWHERE IN THE BUILDING:

1. SHUT OFF NORMAL HVAC; OARTU-1, 2, 3 & OAAHU-4, HPU/AHUs AND TOILETS EF'S OF FLOOR OF INCIDENCE (FOI).
2. CONFIGURE MAKE-UP AIR AND RELIEF DAMPERS TO PRESSURIZE STAIRS AND ELEVATOR; MD-R1 TO MD-R8, FSD-601 & 602, AND MD-607 & 608.
3. START STAIRS AND ELEVATOR PRESSURIZATION FANS; SPF-1 & 2, EPF-1A, 1B, 2A & 2B
4. CONFIGURE EXHAUST DAMPERS TO EXHAUST FROM CORE AREA ONLY (CORRIDOR) ON ALL LEVELS; OFSD-T06, OFSD-T07, OFSD-T03, OFSD-604 AND MD-606.
5. START EXHAUST FANS; SCEF-1 & 2.

STAIR PRESSURIZATION:
THE PRESSURE INSIDE THE STAIRWELL SHALL BE MAINTAINED AT THE PRESCRIBED PRESSURE LEVEL IN 2020 FBC SECTION 909.20.5 BY A BAROMETRIC RELIEF DAMPER AT THE TOP OF EACH STAIR ENCLOSURE AND THE PRE-SET VFD' FAN.
ELEVATOR HOIST-WAY PRESSURIZATION:
THE PRESSURE INSIDE THE ELEVATOR HOIST-WAY SHALL BE MAINTAINED AT THE PRESCRIBED PRESSURE LEVEL IN THE RATIONAL ANALYSIS BY THE PRE-SET VFD' FAN.
ELEVATOR HOIST-WAY VENTING:
UPON INITIATION OF A SMOKE ALARM BY A SMOKE DETECTOR INSIDE OF ELEVATOR HOIST-WAY, THE ELEVATOR PRESSURIZATION FAN (EPF-1A, 1B, 2A, 2B) SHALL SHUT DOWN AND RELIEF DAMPER (MD-R6, MD-R8) SHALL OPEN, IN ORDER TO VENT THE HOIST-WAY.
CORE AREA (CORRIDOR & RESTROOM) EXHAUST ON EACH FLOOR
UPON FIRE ALARM ACTIVATION THE CORE AREA FOR EACH FLOOR WILL BE EXHAUSTED. REFER TO RATIONAL ANALYSIS REPORT FOR AIRFLOW CFM VALUES AND DAMPER SCHEDULE ON M-6.3 FOR DAMPER POSITION.
FIRE-SMOKE DAMPERS, SMOKE DAMPERS AND MOTORIZED DAMPERS:
ALL DAMPERS THAT ARE PART OF THE SMOKE CONTROL/ PURGE SYSTEM, UPON INITIATION OF A FIRE ALARM FROM THE FIRE ALARM PANEL, SHALL GO TO THEIR EMERGENCY POSITIONS DESCRIBED OR AS SHOWN ON SHEET M6.3.
UPON VERIFICATION THAT THE BUILDING IS NO LONGER IN A SMOKE CONTROL MODE VIA THE FIRE ALARM PANEL AND THE FSCS, THE MAKE UP PRESS. ALL FANS WILL DE-ENERGIZE, AND ALL DAMPERS WILL RETURN TO THEIR NORMAL POSITIONS.
(*) REFER TO TABLE "SUMMARY OF SMOKE CONTROL" ON PG. 37 OF THE RATIONAL ANALYSIS REPORT FOR AIRFLOW CFM VALUES
(**) "T" IS GENERIC FOR FLOOR LEVEL

WEST BUILDING- POST FIRE SMOKE REMOVAL MODE SEQUENCE OF OPERATION:

TO BE EDIT

POST FIRE SMOKE REMOVAL SYSTEM SEQUENCE DESCRIBED BELOW IS BASED ON FBC 2020, SEC. 403.4.7 (2), TO FACILITATE SMOKE REMOVAL IN POST-FIRE SALVAGE AND OVERHAUL OPERATIONS, AND ALWAYS TAKES PRECEDENCE OVER THE NORMAL MODE SEQUENCE OF OPERATION BUT NEVER OVER THE EMERGENCY MODE OF OPERATION. THE OPERATION SHALL BE PERFORMED MANUALLY AND SHALL MANUALLY OVERRIDE THE STAIR PRESSURIZATION AND ELEVATOR PRESSURIZATION INTO "OFF" POSITION VIA "FSCS" IF THEY ARE RUNNING PRIOR TO THE SMOKE PURGE MODE ACTIVATION.
THE SMOKE PURGE SYSTEM WILL BE INTERLOCKED WITH THE STAIR AND ELEVATOR PRESSURIZATION (SMOKE CONTROL MODE) SO THAT SMOKE PURGE WILL NOT ACTIVATE IF THESE SYSTEMS ARE STILL RUNNING. VERIFICATION WILL BE PROGRAMMED TO ENSURE BOTH THE STAIR PRESSURIZATION AND ELEVATOR PRESSURIZATION FAN STATUSES ARE "OFF" ON THE FSCS.
FLOOR PURGE:
MANUAL OVERRIDE AT THE FSCS INITIATES SMOKE PURGE SYSTEM ON FLOOR OF INCIDENCE (FOI):

1. SHUT OF STAIRS AND ELEVATOR PRESSURIZATION FANS; SPF-1 & 2 AND EPF-1A, 1B, 2A, 2B.
2. CLOSED MAKE-UP AIR AND RELIEF DAMPERS TO PRESSURIZE STAIRS AND ELEVATOR; MD-R1 TO MD-R8, FSD-601 & 602 AND MD-607 & 608.
3. CONFIGURE EXHAUST DAMPERS TO EXHAUST THE FOI (REFER TO M6.3 FOR DAMPER POSITION);
   - 3.1. RESIDENTIAL FLOORS (7TH TO 28TH): OFSD-T06 & T07
   - 3.2. AMENITIES FLOOR (29TH): MD-2908
   - 3.3. ELEVATOR LOBBY (2ND TO 6TH): OFSD-T03 OFSD-604, OFSD-6[illegible] AND MD-606
   - 3.4. 1ST FLOOR LOBBY-BAR-LOUNGE-ATRIUM: OFSD-204
   - 3.5. 1ST FLOOR OFFICES: MD-106 & 107
   - 3.6. 1ST FLOOR RETAILS: MD-102A, 102B, 103A & 103B
4. STAR EXHAUST FANS;
   - 4.1. RESIDENTIAL FLOORS (7TH TO 28TH: SCEF-1 AND SET TO THE REQUIRED CFM BY VFD
   - 4.2. AMENITIES FLOOR (29TH): SCEF-3
   - 4.3. ELEVATOR LOBBY (2ND TO 6TH): SCEF-2 AND SET TO THE REQUIRED CFM BY VFD.
   - 4.4. 1ST FLOOR LOBBY-BAR-LOUNGE-ATRIUM: SCEF-5
   - 4.5. 1ST FLOOR OFFICES: SCEF-8, EF-0101
   - 4.6. 1ST FLOOR RETAILS: SCEF-6A & 6B
5. CONFIGURE MAKE-UP AIR DAMPERS TO SUPPLY THE FOI (REFER TO M6.3 FOR DAMPER POSITION):
   - 5.1. RESIDENTIAL FLOORS (7TH TO 28TH): FSD-T01, T0[illegible] & T05, OFSD-T02 & T04 AND MD-R10.
   - 5.2. AMENITIES FLOOR (29TH): FSD-T05 AND FSD-T[illegible], DOORS FOR FITNESS, DEMO-KITCHEN AND CORRIDOR SHALL BE MANUALLY OPEN (REFER TO FLOOR PLAN M2.9 FOR DOORS LOCATION).
   - 5.3. ELEVATOR LOBBY (2ND TO 6TH): DOOR SHALL BE MANUALLY OPEN.
   - 5.4. 1ST FLOOR LOBBY-BAR-LOUNGE-ATRIUM: DOOR SHALL BE MANUALLY OPEN.
   - 5.5. 1ST FLOOR OFFICES: MD-108 & MD-101
   - 5.6. 1ST FLOOR RETAILS: MD-104A, 104B & MD-105A, 105B.
6. STAR OUTSIDE MAKEUP AIR FAN;
   - 6.1. RESIDENTIAL FLOORS (7TH TO 28TH): SCSF-[illegible] AND SET TO THE REQUIRED CFM BY VFD
   - 6.2. 1ST FLOOR OFFICES: SC[illegible]-109
   - 6.3. 1ST FLOOR RETAILS: SCSF-[illegible]A & 7B

(*) REFER TO TABLE "SMOKE CONTROL CALCULATION" ON M0.2 & RISER ON M5.2 FOR AIRFLOW CFM VALUES. THE REQUIRED AIRFLOW CFM ON THE FLOOR OF INCIDENCE (FOI) SHALL BE ACHIEVED BY T&B SETTINGS FOR THE VFD.

(**) "T" IS GENERIC FOR FLOOR LEVEL

VARIABLE FREQUENCY DRIVE NOTES

1. VFD SHALL BE AS MANUFACTURED BY ABB, YASKAWA, DANFOSS, HONEYWELL OR EQUAL AND SHALL BE COMPLIANT WITH STANDARD IEEE 519. BASIS OF DESIGN IS DANFOSS.
2. VFD INSTALLATION IN MOTOR CONTROL CENTER (MCC) SHALL NOT BE ACCEPTABLE
3. VFD SHALL BE UL/NEC RATED AND OF MIN. 96% EFFICIENCY AT FULL LOAD. VFD SHALL BE SIZED FOR 125% OF NOMINAL MOTOR HP TO ALLOW FOR SERVICE FACTOR OPERATION AND EFFICIENCY LOSS.
4. VFD SHALL HAVE A MAX. 10% OVERLOAD CAPABILITY FOR 60 SECONDS WITH 1% SPEED REGULATION.
5. PROVIDE VFD WITH DISCONNECT SWITCH IN COMMON ENCLOSURE, CONTRACTOR SHALL VERIFY WITH MANUFACTURER CRITICAL CABLE LENGTH ALLOWED PRIOR TO INSTALLATION. IF NECESSARY, AS DETERMINED, dV/dT OUTPUT FILTERS SHALL BE PROVIDED.
6. PROVIDE MIN. 3% INPUT LINE REACTORS AND RFI/EMI FILTER.
7. VFD SHALL BE PROVIDED BY MECHANICAL AND SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR.
8. CONTRACTOR SHALL PROVIDE SEPARATE METALLIC OR MC TYPE CONDUITS FOR ALL INCOMING POWER, MOTOR POWER, AND CONTROL WIRING. PVC OR WIRE TROUGHS ARE NOT ACCEPTABLE. FOR PVC USED IN UNDERGROUND INSTALLATION, MIN. 18" SEPARATION SHALL BE PROVIDED IN-BETWEEN CONDUITS.
9. CONTROL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER FOR SERIAL SIGNAL TYPE AND SHALL BE SHIELDED AND GROUNDED AS REQUIRED. CONTROL WIRING (CABLE) SHALL BE U.L. LISTED FOR USAGE IN DAMP LOCATIONS.
10. VFD SHALL BE RATED FOR 32° TO 104° F. PROVIDE NEMA TYPE ENCLOSURE AS APPLICABLE:
    - NEMA 1 FOR CLEAN, INDOOR APPLICATIONS
    - NEMA 3R WEATHERPROOF, VENTILATED ENCLOSURE FOR DUST/WATER FREE OUTDOOR APPLICATION
    - NEMA 4R WEATHERPROOF, WATERPROOF ENCLOSURE FOR DUST/WATER EXPOSED OUTDOOR APPLICATION
    - NEMA 12 ENCLOSURE FOR DUST/CONDENSATION/FOG/DRIPPING WATER PRONE APPLICATION.

    IF RECOMMENDED BY VFD MANUFACTURER, PROVIDE SELF CONTAINED AIR CONDITIONING UNIT FOR THE NEMA 3R OR 4R ENCLOSURE AS MANUFACTURED BY "ICEQUBE" OR EQUAL.
11. VFD SHALL BE PROVIDED WITH 2-CONTACTOR TYPE BY-PASS (OUTPUT AND BY-PASS CONTACTORS),
12. VFD SHALL BE PROVIDED WITH PLAIN ENGLISH DIGITAL DISPLAY INTERFACE AND KEYPAD WITH HAND-AUTO-OFF CAPABILITIES, NONVOLATILE MEMORY AND SERIAL COMMUNICATION PORT.
13. VFD SHALL BE PROVIDED WITH INPUT CAPABILITIES FOR DAMPER ACTUATION, SMOKE DETECTOR, FIRE ALARM AS REQUIRED. VFD SHALL BE CAPABLE OF STOPPING MOTOR IN ANY OPERATING MODE, INCLUDING BY-PASS WHEN ACTIVATED FROM SUCH AN INPUT. CONTRACTOR SHALL COORDINATE WITH LOCAL FIRE DEPARTMENT ADDITIONAL REQUIREMENTS FOR OVERRIDE AND OTHER SEQUENCING CAPABILITIES.
14. VFD PROTOCOL SHALL BE COMPATIBLE WITH LON WORKS, BACNET, N2, FLN, ETHERNET, OR MODBUS AND SHALL SUPPORT ALL SPECIFIED INFORMATION POINTS.
15. WHEN VFD OPERATION IS TRANSFERRED TO BY-PASS MODE IN EMERGENCY, THE BAS (BLDG. AUTOMATION SYSTEM) SHALL RESET ALL VAV BOXES OR VALVES (AS APPLICABLE) TO FULLY OPEN POSITION TO AVOID OVER-PRESSURIZATION AND AN ALARM SIGNAL SHALL BE ANNOUNCIATED.
16. ELECTRICAL MOTOR SHALL BE VFD COMPATIBLE, CONTRACTOR SHALL COORDINATE PRIOR TO PURCHASING. PROVIDE PHASE MONITOR, VOLTAGE MONITOR AND AMP MONITOR FOR BOTH DRIVE AND BY-PASS, WITH SHORT-CIRCUIT, GROUND FAULT, AND SINGLE PHASE PROTECTION.
17. THE VFD SHALL BE CAPABLE TO OPERATE BETWEEN 30% OVER NOMINAL AND 35 % UNDER NOMINAL VOLTAGE LIMITS NOT BASED ON "RATED" VOLTAGE.

KITCHEN GENERAL NOTES

COORDINATE ALL FINAL INFORMATION AND REQUIREMENTS WITH OWNER AND HOOD SUPPLIER PRIOR TO ANY WORK OR EQUIPMENT PURCHASING. THE INFORMATION SHOWN IS GENERIC AND FOR REFERENCE PURPOSES ONLY IF AN ENGINEERED HOOD SYSTEM IS PROVIDED.

REFER TO "***" HOOD DRAWINGS *** THROUGH *** FOR HOOD AND FAN INFORMATION AND SEQUENCE OF OPERATION.

KITCHEN HOOD, FANS, FIRE SUPPRESSION SYSTEM AND CONTROL PANEL DRAWINGS/ DOCUMENTS UNDER SEPARATE PERMIT.

1. COMMERCIAL KITCHEN EXHAUST SYSTEM AND TYPE I AND II EXHAUST HOODS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SECTIONS 506 THRU 509 OF 2020 FLORIDA MECHANICAL COD,E AND NATIONAL SANITATION FOUNDATION STANDARDS, NFPA-96 AND NFPA-17-A.
2. TYPE I EXHAUST HOODS SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.043" (No. 18MSG) IN THICKNESS.
3. TYPE II EXHAUST HOODS SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.030" (No. 22 Ga) IN THICKNESS OR STAINLESS STEEL NOT LESS THAN 0.024" (No. 24 Ga) IN THICKNESS.
4. HOODS SHALL BE SECURED IN PLACE BY NON COMBUSTIBLE SUPPORT.
5. GREASE DUCT SERVING A TYPE I HOOD SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.055" (No. 16Ga) IN THICKNESS. ALL JOINTS, SEAMS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM.
6. GREASE DUCT BRACING AND SUPPORTS SHALL BE OF NONCOMBUSTIBLE MATERIAL SECURELY ATTACHED TO THE STRUCTURE. BOLTS, SCREWS, RIVETS AND OTHER MECHANICAL FASTENERS SHALL NOT PENETRATE DUCT WALL.
7. GREASE DUCT SYSTEM SERVING TYPE I HOOD SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION THEREOF, AND THE SYSTEM SHALL SLOPE NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL TOWARD THE HOOD. WHERE HORIZONTAL DUCT EXCEED 75 FT. IN LENGTH, THE SLOPE SHALL BE NOT LESS THAN ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL.
8. IF COMBUSTIBLE MATERIAL ARE WITHIN 18" OF GREASE DUCT (2020 FMC 507.2.6) KITCHEN EXHAUST DUCT SHALL BE PROVIDED WITH A FIRE RATED ENCLOSURE FROM HOOD TO FAN ON ROOF AND SHALL BE FURNISHED AND INSTALLED BY HOOD INSTALLER. DUCT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT OF THE ASSEMBLY PENETRATED AND NOT LESS THAT 1-HR. DUCT ENCLOSURE SHALL BE; FIRE RATED WRAP WITH "0" CLEARANCE INSULATION EQUAL TO "3M", DOUBLE WALL ZERO CLEARANCE DUCT EQUAL TO "SELKIRK METALABESTOS C3" OR "FLAMEBAR BW11"
9. CLEAN OUTS OPENING SHALL BE PROVIDED AT EACH CHANGE IN DIRECTION OF THE GREASE EXHAUST DUCT SYSTEM AND AT ANY OTHER PORTION OF THE SYSTEM NOT ACCESSIBLE FROM THE DUCT INLET OR DISCHARGE. ALL CLEAN OUTS LOCATED ON HORIZONTAL SECTION OF DUCTS SHALL BE SPACED NOT MORE THAN 20 FT. APART AND SHALL BE LOCATED ON THE SIDE OF THE DUCT AND SHALL BE OF SUFFICIENT SIZE TO PERMIT A THOROUGH CLEANING OF THE ENTIRE SYSTEM. THESE OPENING SHALL BE EQUIPPED WITH TIGHT FITTING ACCESS DOOR CONSTRUCTED OF METAL WHICH IS EQUAL TO OR GREATER IN THICKNESS THAN THAT OF DUCTS. LATCHING MECHANISM FOR ACCESS DOORS SHALL BE SO DESIGNED THAT THE DOORS CAN BE OPENED OR REMOVED WITHOUT THE USE OF A TOOL. A SIGN SHALL BE PLACED ON ALL ACCESS DOORS STATING: "ACCESS PANEL - DO NOT OBSTRUCT".
10. MAKE UP AIR DUCT SHALL BE GALVANIZED STEEL WITH GAUGES, DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LAST EDITION OF THE A.S.H.R.A.E. GUIDE AND S.M.A.C.N.A. STANDARDS.
11. HOOD EXHAUST FAN SHALL BE U.L./CUL 792 LISTED AND A.M.C.A. RATED. HOOD MAKE UP FAN TO BE LOCATED 10'-0" FROM ANY EXHAUST FAN, PLUMBING VENT OR FLUE STACKS.
12. GREASE FILTERS SHALL BE STAINLESS STELL CONSTRUCTION AND TO BE THE GREASE ELIMINATOR SELF BALANCING TYPE U.L. APPROVED.
13. EXHAUST AND SUPPLY FANS OF EACH HOOD SHALL BE INTERLOCKED. PROVIDE ONE LIGHT SWITCH AND ONE FAN SWITCH ON THE FACE OF EACH GREASE HOOD.
14. HOOD SUPPLY AIR FANS AND HOOD EXHAUST FANS SHALL BE CONTROLLED FROM AN INTEGRATED HOOD SWITCH. BOTH THE HOOD MAKE-UP AIR AND EXHAUST AIR FANS SHALL RUN WHEN THE SWITCH IS IN THE "ON" POSITION. CONTROL WIRING FOR THE HOOD MAKE-UP AIR FAN AND THE HOOD EXHAUST FAN SHALL BE ROUTED THRU THE HOOD FIRE SUPPRESSION SYSTEM. IF THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED THE ELECTRICAL POWER TO THE APPLIANCES UNDER THE HOOD SHALL BE SHUT OFF BY SHUNT TRIP BREAKERS OR GAS SOLENOID FOR GAS APPLIANCES; THE HOOD MAKE-UP AIR FANS SHALL STOP AND THE HOOD EXHAUST FANS SHALL CONTINUE TO OPERATE AND EVACUATE SMOKE. IF THE HOOD EXHAUST FANS ARE SWITCHED "OFF" AND NOT RUNNING WHEN THE HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED, THEY MUST COME ON THRU A RELAY TO EVACUATE SMOKE.
15. EXHAUST HOODS SHALL BE PROVIDED WITH A ANSUL R-102 OR EQUAL AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR PROTECTION OF THE EXHAUST HOOD, PLENUM, GREASE FILTERS, EXHAUST DUCT AND COOKING EQUIPMENT. THE SYSTEM SHALL EMPLOY A LIQUID CHEMICAL EXTINGUISHMENTS. THE SYSTEM SHALL BE ARRANGED TO SHUT OFF THE SOURCE OF COOKING HEAT AUTOMATICALLY UPON SYSTEMS OPERATION. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-96, NFPA-17-A AND ACCORDING TO MANUFACTURERS PRINTED INSTALLATION PROCEDURES. EACH HOOD SHALL HAVE A SEPARATE FIRE EXTINGUISHING SYSTEM WHICH WILL OPERATE EFFECTIVELY WITH OR WITHOUT FANS OPERATING.
16. KITCHEN HOOD EXHAUST SYSTEMS SHALL BE BALANCED TO MEET THE "2020 FMC"
17. THE INSTALLER OF THE EXHAUST HOOD AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BRIEF THE PERSONNEL IN ITS OPERATION.
18. DISHWASHER EXHAUST DUCT SHALL BE ALUMINUM CONSTRUCTION. DUCT CONSTRUCTION AND INSTALLATION SHALL COMPLY WITH 2020 FMC SECTION 506.4.

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

Certification of Authorization #8189

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
MECHANICAL CALCULATIONS

PROJECT NUMBER: 010326.000
DATE: 04/29/22
SCALE: 12" = 1'-0"

SHEET
M0-002

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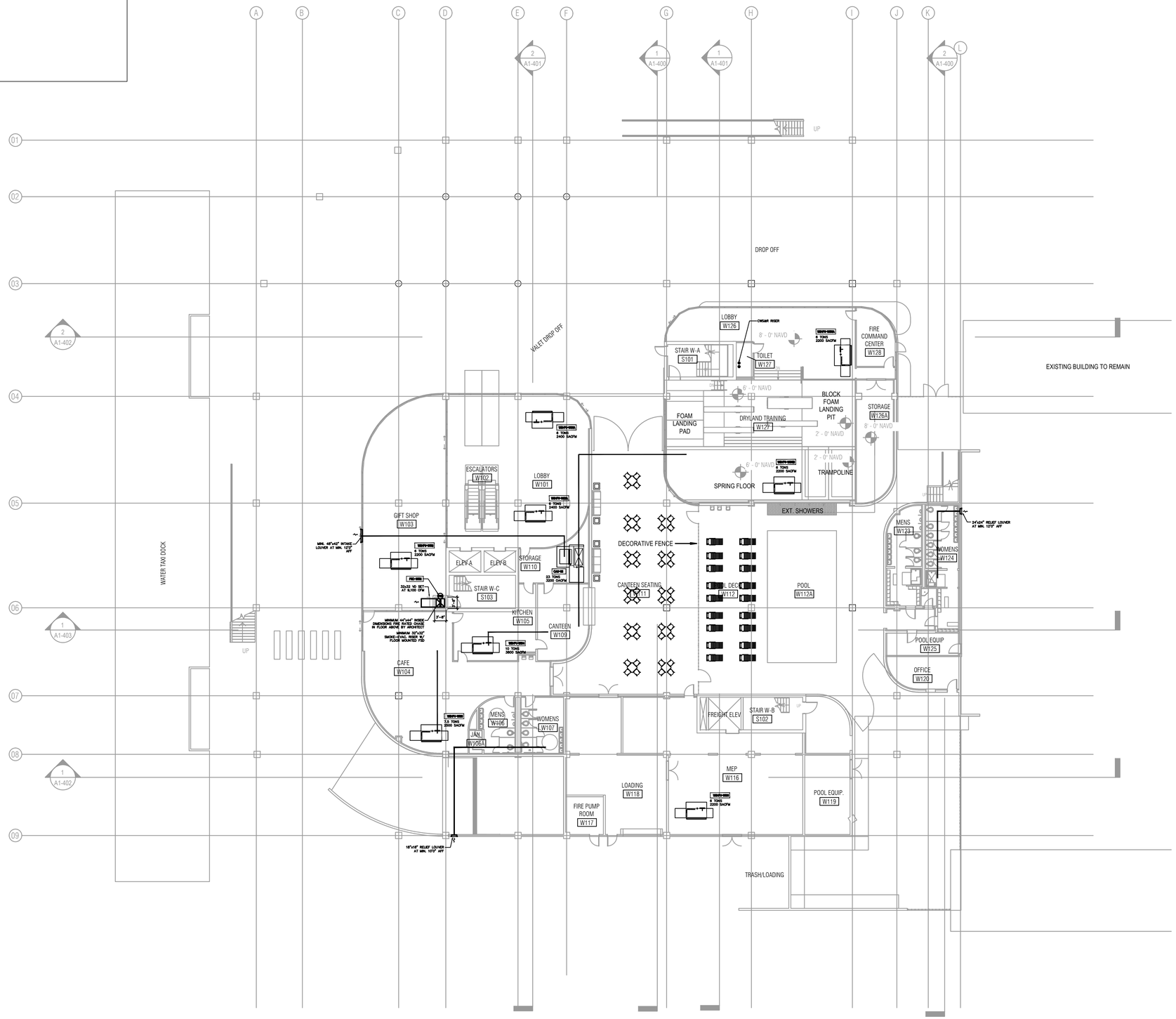


1 WEST BLDG - GROUND FLOOR

1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

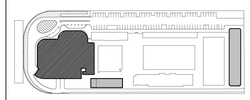
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

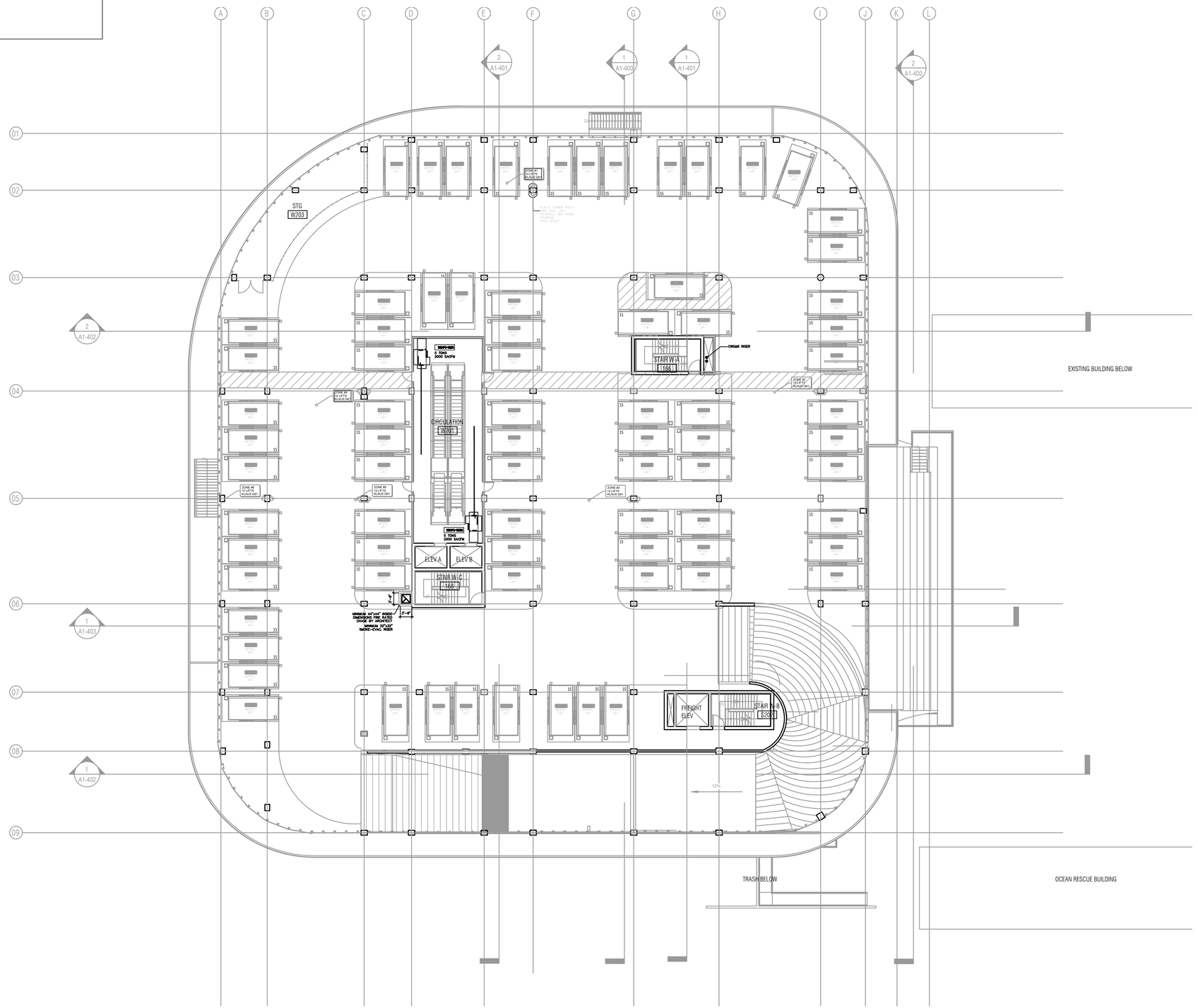
SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 01

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
M1-100



1 WEST BLDG - LEVEL 02
1/16" = 1'-0"

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

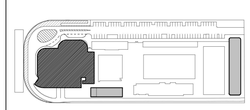
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

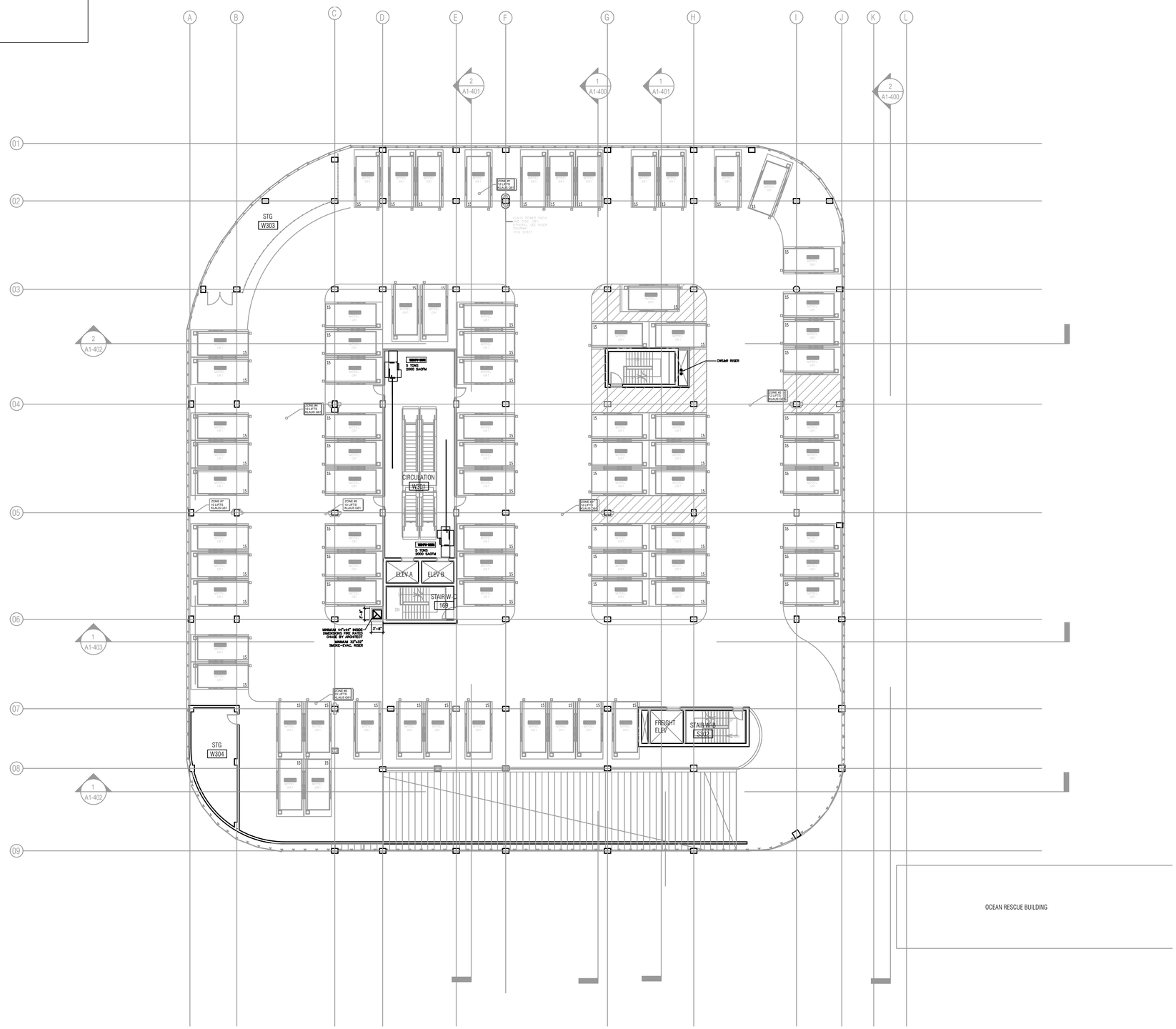
SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 02

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
M1-101



1 WEST BLDG - LEVEL 03
1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

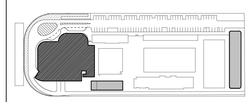
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

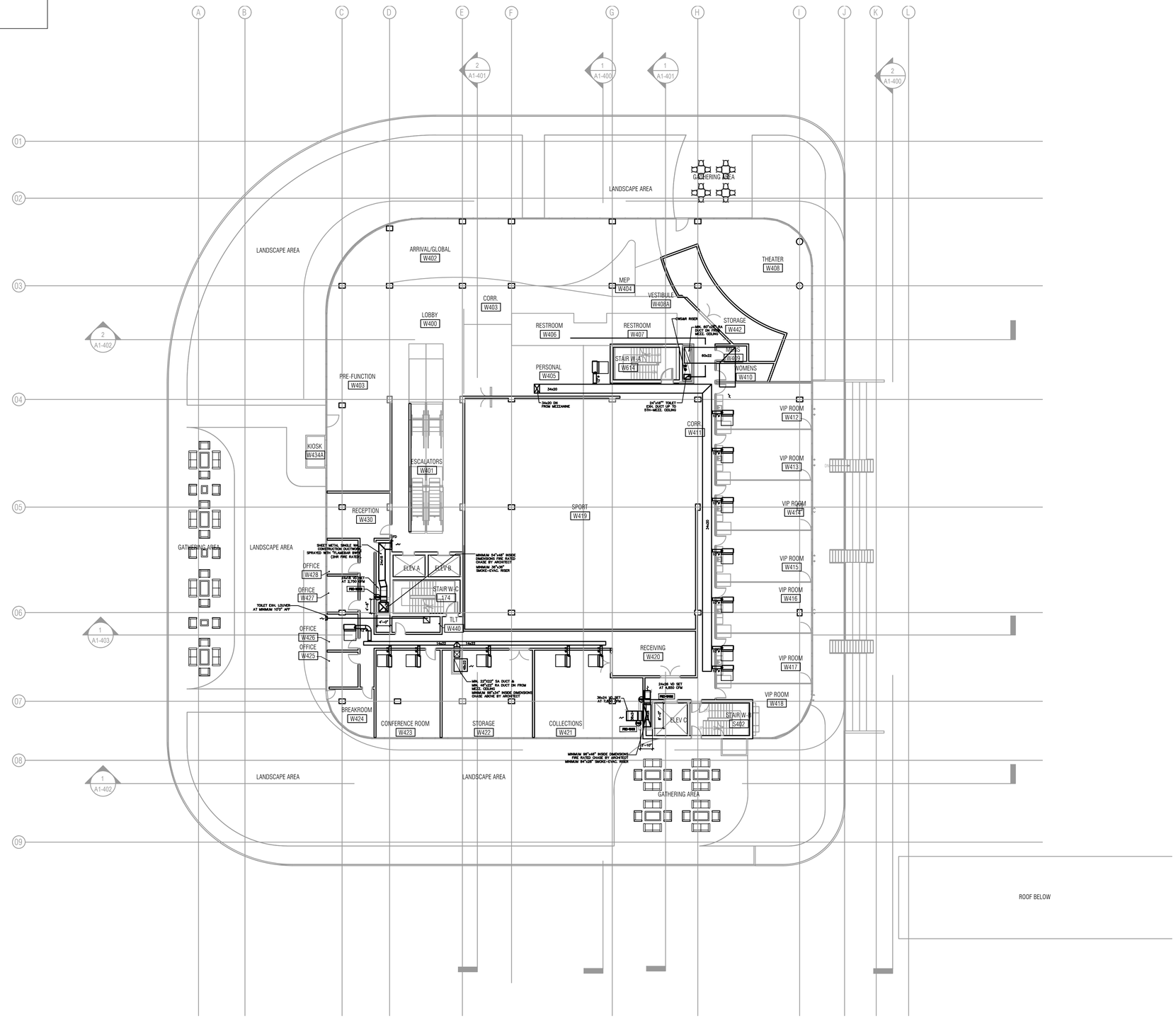
SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 03

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
M1-102



1 WEST BLDG - LEVEL 04
1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

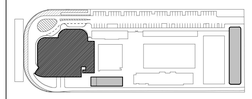
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

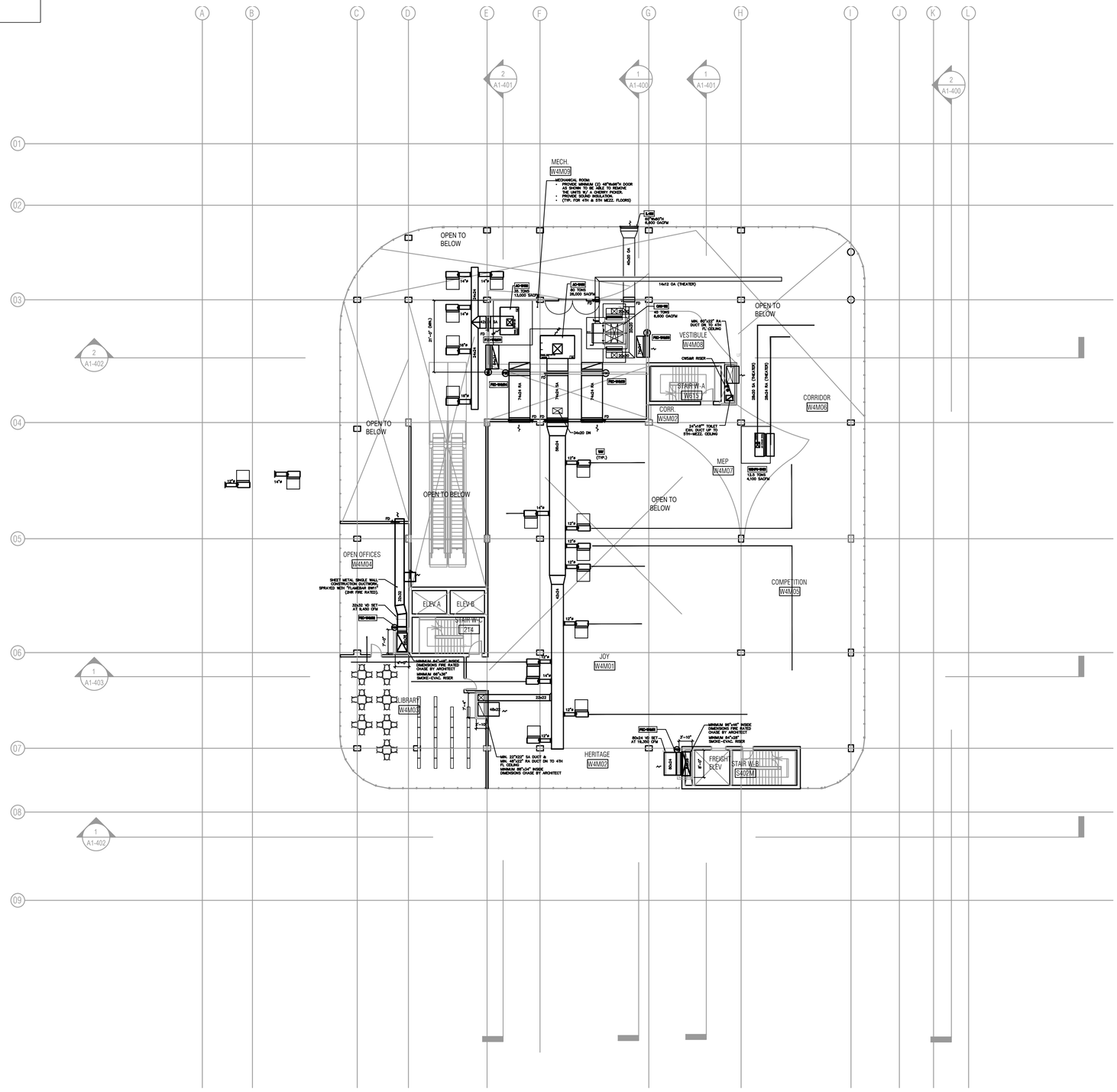
SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 04

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
M1-103



1 WEST BLDG - LEVEL 04 MEZZ.
1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

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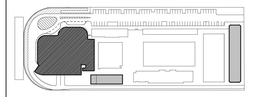
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

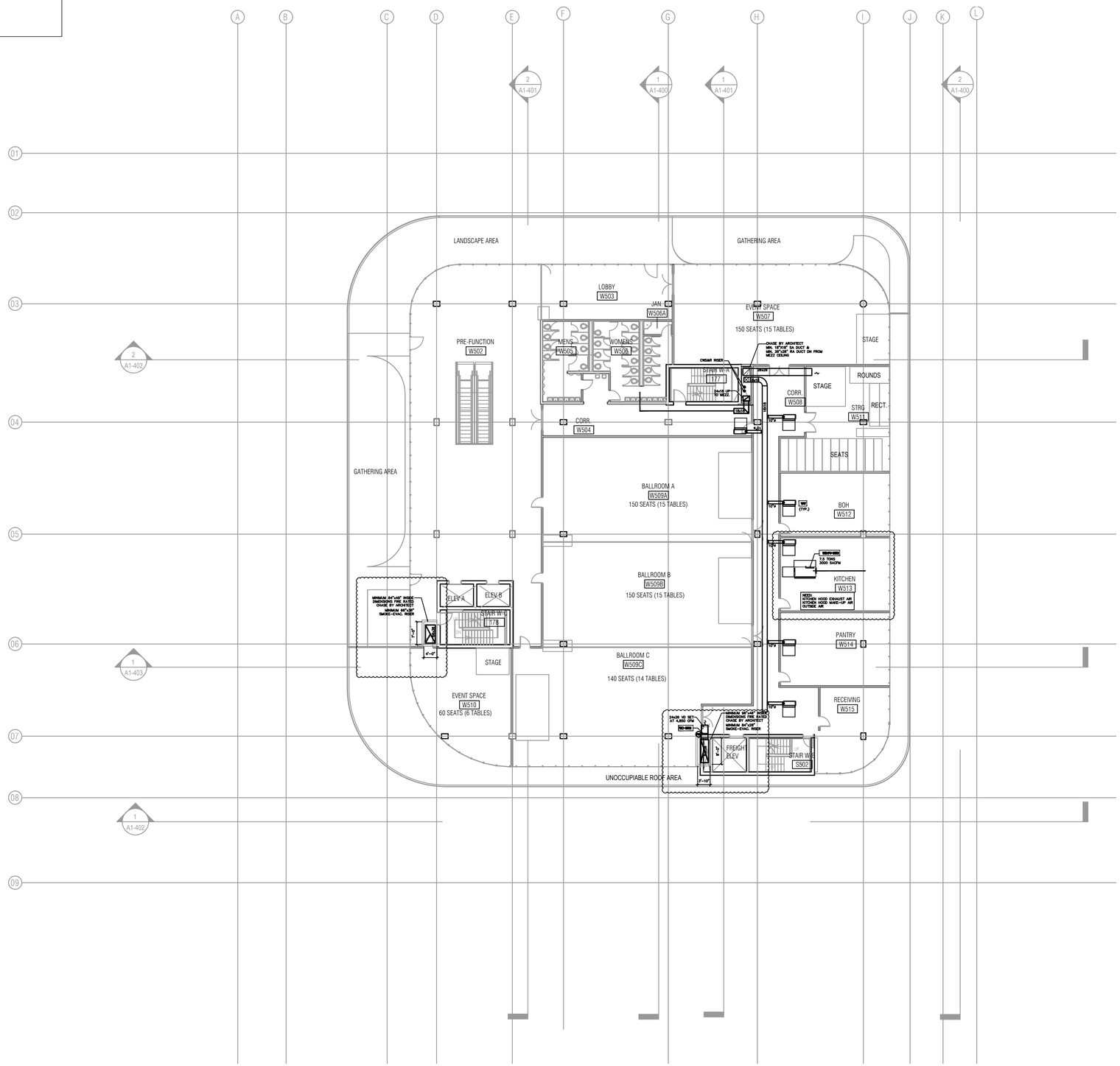
SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 04 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
M1-104



1 WEST BLDG - LEVEL 05
1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

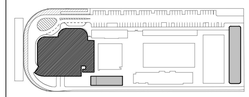
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL: 954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL: 954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

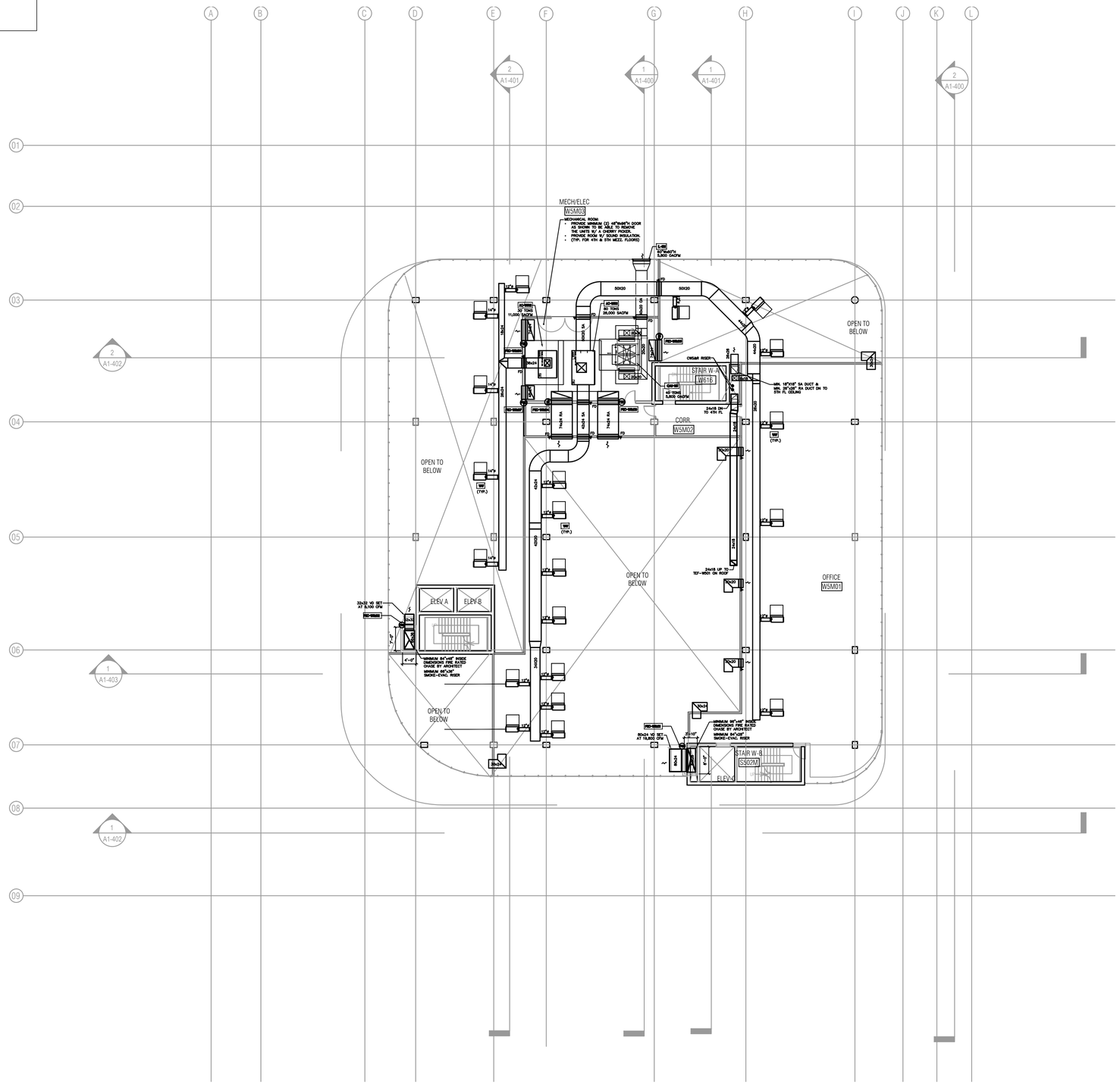
SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
FLOOR PLAN - LEVEL 05

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET
M1-105



1 WEST BLDG - LEVEL 05 MEZZ

1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL: 954.949.2200

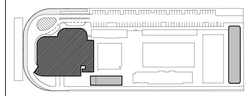
CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

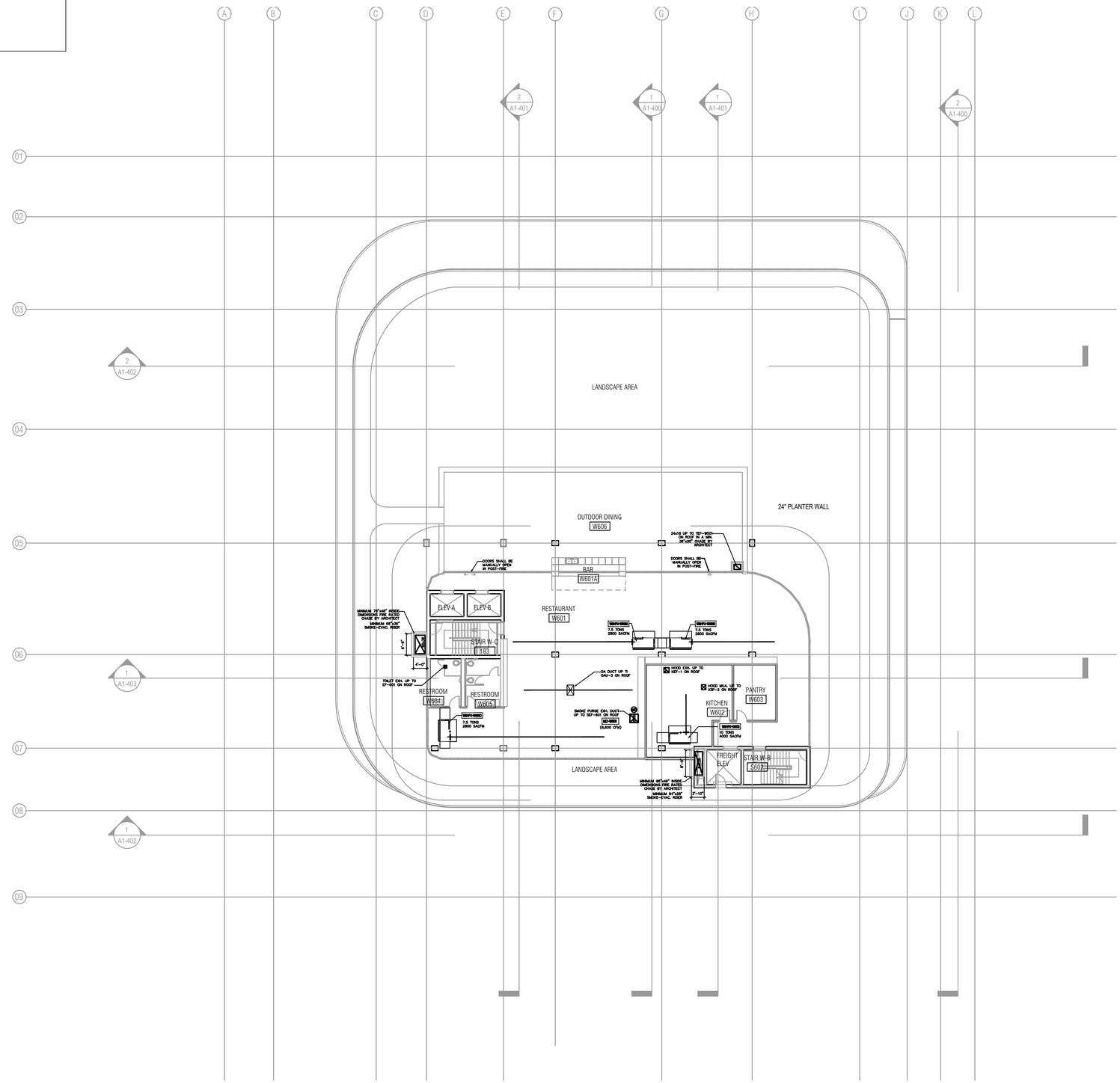
DRAWING TITLE

FLOOR PLAN - LEVEL 05 MEZZ.

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

M1-106



1 FLOOR PLAN - LEVEL 06 (RESTAURANT)

1/16" = 1'-0"

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

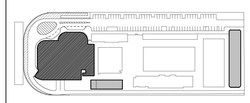
ARQUITECTONICA

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

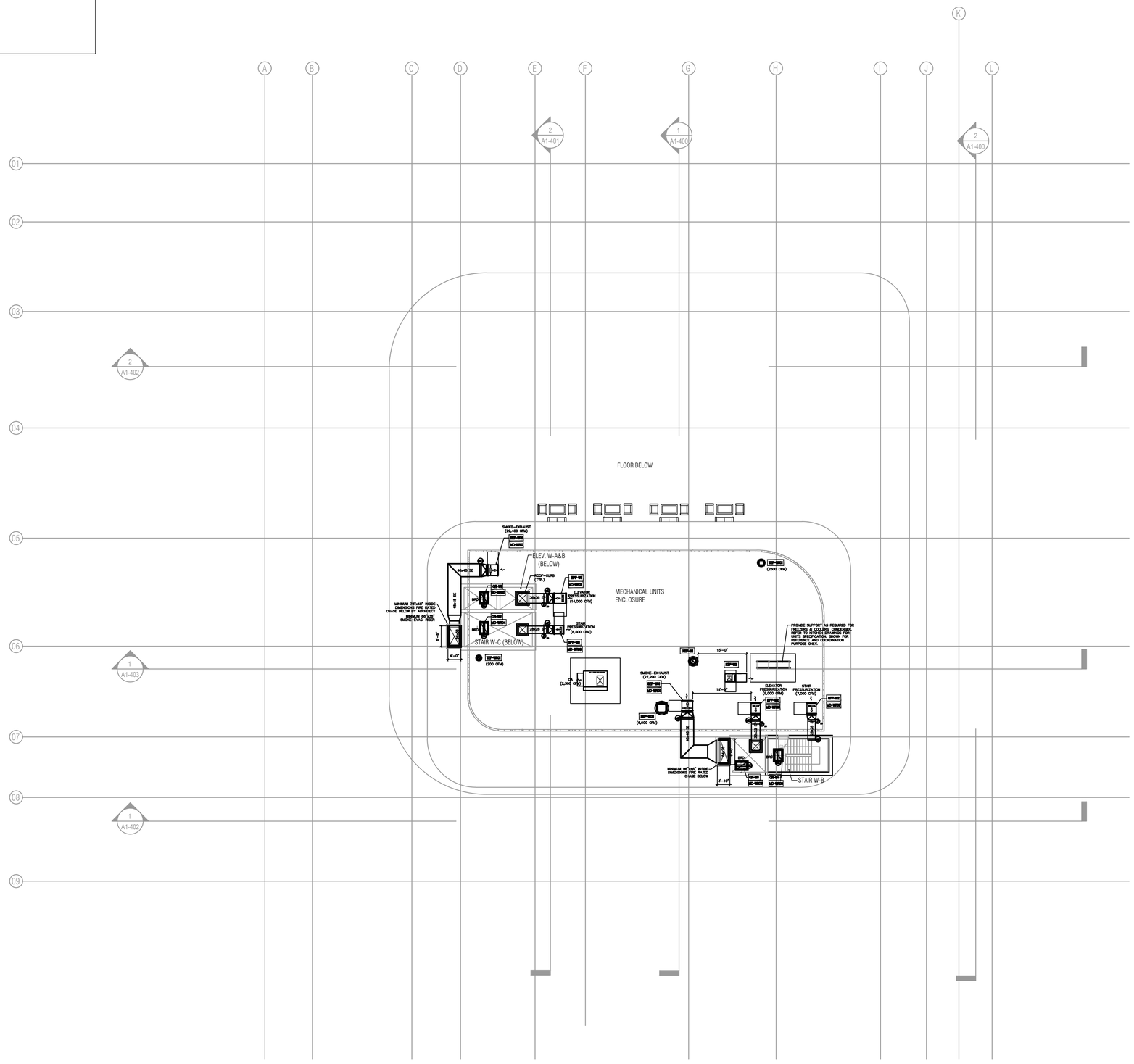
DRAWING TITLE

FLOOR PLAN - LEVEL 06

PROJECT NUMBER: 010326.000
DATE: 02/21/22
SCALE: 1/16" = 1'-0"

SHEET

M1-107



1 WEST BLDG- ROOF PLAN

1/16" = 1'-0"

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL.305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL.954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL.954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL.954.788.3400

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

FLOOR PLAN - ROOF

PROJECT NUMBER: 010326.000

DATE: 02/21/22

SCALE: 1/16" = 1'-0"

SHEET

M1-108

9/23/2022 12:08:02 PM

WEST BUILDING - WATER COOLED VERTICAL SELF CONTAINED UNIT SCHEDULE

TAG	AREA SERVED	MANUF./ MODEL	NOMINAL TONS	EER/IEER	CAPACITY STEPS	REFRIG./ LBS	SUPPLY FAN DATA				COOLING MODE DATA					CONDENSER WATER			ELECTRICAL DATA		CONFIGURATION			GEN. DATA				
							SA (CFM)	OA (1) (CFM)	ESP/TSP (IN WG)	SA FAN (No/HP/FLA)	FAN SPEED MOTOR TYPE	TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	EAT DB/WB (°F/°F)	LAT DB/WB (°F/°F)	COIL ROWS/FPI	FLOW (GPM)	FLOW P.D. (FT. WG.)	EWT/LWT (°F/°F)	UNIT CONNEC. INLET/OUTLET (IN)	VOLT./PH/HZ	NO. COMP. / RLA	MCA/MOCP	UNIT CONFIGURATION	DISCHARGE ARRANGEMENT	AIR VOLUME/ TEMPERATURE CONTROL	OPERATING WEIGHT(LB)	UNIT DIMENSION WxDxH(IN)	SUPPLY PLENUM WxDxH(IN)	ACOUSTICAL PERFORMANCE	NOTES
AC-W401	4TH FLR & MEZZ.	TRANE/ SCWMR-080	80	14.0/19.3	VARIABLE	R-410A/ 77.0	26,000	5,850	3.0/4.34	5 @ 6.15 KW/ 9.0	*/TEFC	852.28	698.9	75.0/62.0	51.4/50.5	4/13.5	200	18.37	87.0/97.0	*	460/3/60	1 @ 60 (V) 3 @ 23.7 (F)	*	VERTICAL DISCHARGE W/ DOUBLE WALL	STD. HGT. PLNM. TWO DUCTS	VAV W/ VFD AND SUPPLY AIR TEMPERATURE CONTROL	4,800	*	STANDARD HEIGHT *	*	AS NOTED
AC-W402	4TH FLR LOBBY PRE-FUNCTION	TRANE/ SCWGU-035	35	13.4/17.0	100/53/0	R-410A/ 46.0	13,000		3.0/3.33	18.5/20/27.3	*/TEFC	385.40	350.48	75.0/61.0	51.0/50.5	4/12	105	13.34	87.0/96.1	*	460/3/60	2 @ 25.5	*	VERTICAL DISCHARGE W/ DOUBLE WALL	HORIZONTAL NO PLENUM	VAV W/ VFD AND SUPPLY AIR TEMPERATURE CONTROL	*	*	-	*	AS NOTED
AC-W501	5TH FLR & MEZZ.	TRANE/ SCWMR-080	80	14.0/19.3	VARIABLE	R-410A/ *	26,000	5,800	3.0/4.34	5 @ 6.15 KW/ 9.0	*/TEFC	852.28	698.9	75.0/62.0	51.4/50.5	4/13.5	200	18.37	87.0/97.0	*	460/3/60	1 @ 60 (V) 3 @ 23.7 (F)	*	VERTICAL DISCHARGE W/ DOUBLE WALL	STD. HGT. PLNM. TWO DUCTS	VAV W/ VFD AND SUPPLY AIR TEMPERATURE CONTROL	4,800	*	STANDARD HEIGHT *	*	AS NOTED
AC-W502	5TH FLR LOBBY PRE-FUNCTION	TRANE/ SCWGU-030	30	13.8/17.9	10/65/42/0	R-410A/ 47.5	11,000		3.0/3.30	13.7/15/21.3	*/TEFC	320.78	308.19	75.0/60.0	50.1/49.5	4/12	90	13.47	87.0/95.8	*	460/3/60	1 @ 18.6 3 @ 25.5	*	VERTICAL DISCHARGE W/ DOUBLE WALL	HORIZONTAL NO PLENUM	VAV W/ VFD AND SUPPLY AIR TEMPERATURE CONTROL	*	*	-	*	AS NOTED

NOTES:

1. UNITS SHALL BE "ARI", RATED AND SHALL BE UL OR ETL LISTED AND LABELED BY THE FINAL POINT OF MANUFACTURE OR MODIFICATION. IF THE CONTRACTOR SUPPLIES A UNIT IN VIOLATION TO THIS, THEY WILL BE RESPONSIBLE TO HAVE EACH INDIVIDUAL UNIT FIELD INSPECTED AND LABELED BY UL AT NO COST TO THE OWNER.
2. PROVIDE UNIT WITH SPECIFIED EER/ IEER BASED ON ARI STANDARDS.
3. PROVIDE WITH 5-YEARS COMPRESSOR WARRANTY, 2-YEAR PARTS WARRANTY AND 1-YEAR LABOR WARRANTY (WHOLE UNIT).
4. PROVIDE UNIT WITH FACTORY-INSTALLED AND WIRED THROUGH-THE-DOOR NON-FUSED DISCONNECT SWITCH.
5. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
6. PROVIDE UNIT WITH FULLY INTEGRATED, FACTORY-INSTALLED, AND COMMISSIONED DDC CONTROLS W/ HUMAN INTERFACE AND BACNET COMMUNICATION CAPABILITY.
7. PROVIDE UNIT WITH VFD WITH BY-PASS AND SUPPLY AIR TEMPERATURE CONTROL (SATC) FOR VAV SYSTEM.
8. PROVIDE UNIT WITH FULLY INTEGRATED, FACTORY-INSTALLED, AND COMMISSIONED VFD CONTROL WITH INTEGRATED BYPASS.
9. PROVIDE UNIT WITH ANTI-SHORT-CYCLING PROTECTION, HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
10. PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION.
11. PROVIDE PROTECTIVE COATINGS FOR THE EVAPORATOR COILS. (RECOMMENDED, OWNER FINAL APPROVAL REQUIRED).
12. PROVIDE STAINLESS STEEL SLOPED DRAIN PAN.
13. PROVIDE INTERNALLY TRAPPED DRAIN CONNECTION WITH CLEANOUT.
14. PROVIDE REFRIGERANT CIRCUIT WITH TXV VALVE AND SUCTION/ DISCHARGE LINE SERVICE (SHUTOFF) VALVES.
15. PROVIDE INTERNALLY ISOLATED CENTRIFUGAL SUPPLY FAN AND COMPRESSORS.
16. PROVIDE MIN. 2" MERV 8 FILTERS.
17. PROVIDE UNIT WITH FACTORY-INSTALLED CONDENSER WATER FLOW SWITCH.
18. PROVIDE UNIT WITH FACTORY-INSTALLED; BLOWER PROVING SWITCH, AND DIRTY FILTER SWITCH
19. PROVIDE CONDENSATE DRAIN PAN OVERFLOW SWITCH.
20. PROVIDE AUTOMATIC ISOLATION 2-WAY VALVE THAT SHALL CLOSE WHEN UNITS IS NOT IN USE.
21. PROVIDE STANDARD HEIGHT PLENUM WITH DOUBLE WALL CONSTRUCTION AND FIELD-CUT OR FACTORY-CUT HOLES. REFER TO FLOOR PLAN FOR ACTUAL PLENUM AND OPENINGS SIZE.
22. PROVIDE NEOPRENE ISOLATOR PADS BY TRANE.
23. PROVIDE DUCT SMOKE DETECTOR (SUPPLY). COORDINATE WITH F.A. SYSTEM.
24. FOR VAV UNITS PROVIDE DUCT MOUNTED PRESSURE SENSOR TO BE TIED IN WITH UNITS CONTROLS. THE BAS SYSTEM SHALL BE CAPABLE TO SENSE AND AUTOMATICALLY OPEN ALL VAV BOXES 100% IF UNIT'S VFD IS IN BY-PASS MODE .
25. MECHANICAL CONTRACTOR SHALL SIZE AND RUN WATER LINES PER PLANS.
26. CONTRACTOR TO PROVIDE SERVICE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
27. REFER TO MECHANICAL CONTROL DRAWINGS FOR REQUIRED CONTROL DEVICES AND SEQUENCE OF OPERATION. COORDINATE WITH CONTROL.

(1) OUTSIDE AIR PROVIDED FROM THE *

BASIS OF DESIGN IS TRANE; ACCEPTABLE ALTERNATE MANUFACTURERS ARE: FHP, McQUAY, CARRIER. ANY ALTERNATE MANUFACTURER MUST PROVIDE ALL OF THE STANDARDS AND OPTIONAL FEATURES LISTED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONAL, WEIGHT AND ELECTRICAL CHANGES.

COORDINATION NOTE:

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

WEST BUILDING - WATER SOURCE HEAT PUMP UNIT SCHEDULE

TAG	AREA SERVED	MANUF./ MODEL	NOMINAL TONS	COMP. STAGES	EER/COP	REFRIG. (LBS)	SUPPLY FAN DATA			COOLING MODE DATA						HEATING MODE DATA			CONDENSER WATER					CONFIGURATION					ELECTRICAL DATA			GEN. DATA		
							SA (CFM)	OA (CFM)	ESP/TSP (IN WG)	TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	EAT DB/WB (°F/°F)	LAT DB/WB (°F/°F)	EWT/LWT (°F/°F)	87.0/*	TOTAL CAP. (MBH)	EAT/LAT DB (°F/°F)	EWT/LWT (°F/°F)	FLOW (GPM)	FLOW P.D. (FT. WG.) COIL	FLOW P.D. (FT. WG.) COIL+HOSE KIT	UNIT CONNEC. (IN)	HOSE DIA. (IN)	UNIT	DEHUMIDIFICATION	FAN SPEED MOTOR TYPE	RETURN AIR FLOW/ SUPPLY AIRFLOW	SA FAN MOTOR (BHP/HP/FLA)	NO. COMP. / RLA	VOLT./PH/HZ	FLA/MCA/MOCP	OPERATING WEIGHT(LB)	DIMENSION WxLxH(IN)	NOTES
1ST FLOOR																																	
WSHPU-W101A	LOBBY	TRANE/ GEHE-072	6.0	*	*	R-410A/*	2,400	* (1)	*	*	*	*	*	87.0/*	*	70.0/*	70.0/*	*	*	*	*	*	STANDARD EFFC. HORIZONTAL	NONE	* SPEED * STATIC	REFER TO M*	*	*	460/3/60	*	*	*	*	
WSHPU-W101B		TRANE/ GEHE-072	6.0	*	*	R-410A/*	2,400	* (1)																									
WSHPU-W102	GIFT SHOP	TRANE/ GEHE-072	6.0	*	*	R-410A/*	2,200	* (1)																									
WSHPU-W103	CAFE	TRANE/ GEHE-090	7.5	*	*	R-410A/*	2,500	* (1)																									
WSHPU-W104	KITCHEN-CANTEEN	TRANE/ GEHE-090	7.5	*	*	R-410A/*	2,800	* (1)																									
WSHPU-W105A	DRY LAND TRAINING	TRANE/ GEHE-072	6.0	*	*	R-410A/*	2,200	* (1)																									
WSHPU-W105B		TRANE/ GEHE-072	6.0	*	*	R-410A/*	2,200	* (1)																									
WSHPU-W106	PUMP ROOM	TRANE/ GEHE-072	6.0	*	*	R-410A/*	2,200	* (1)																									
2ND FLOOR																																	
WSHPU-W201	CIRCULATION	TRANE/ GEHE-060	5.0		*	R-410A/*	2,000	175 (1)	*	*	*	*	*	87.0/*	*	70.0/*	70.0/*	*	*	*	*	*	STANDARD EFFC. HORIZONTAL	NONE	* SPEED * STATIC	REFER TO M*	*	*	460/3/60	*	*	*	*	
WSHPU-W202	CIRCULATION	TRANE/ GEHE-060	5.0			R-410A/*	2,000																	STANDARD EFFC. HORIZONTAL										
3RD FLOOR																																	
WSHPU-W301	CIRCULATION	TRANE/ GEHE-060	5.0			R-410A/*	2,000	175 (1)																STANDARD EFFC. HORIZONTAL										
WSHPU-W302	CIRCULATION	TRANE/ GEHE-060	5.0			R-410A/*	2,000																	STANDARD EFFC. HORIZONTAL										
4TH FLOOR																																	
WSHPU-W401	THEATER	TRANE/ GEVE-150	12.5	*	*	R-410A/*	4,100	750 (1)	*	*	*	*	*	87.0/*	*	70.0/*	70.0/*	*	*	*	*	*	STANDARD EFFC. VERTICAL	NONE	* SPEED * STATIC	REFER TO M*	*	*	460/3/60	*	*	*	*	
WSHPU-W402																																	
5TH FLOOR																																	
WSHPU-W501	KITCHEN	TRANE/ GEHE-090	7.5	*	*	R-410A/*	3,000	* (1)	*	*	*	*	*	87.0/*	*	70.0/*	70.0/*	*	*	*	*	*	STANDARD EFFC. HORIZONTAL	NONE	* SPEED * STATIC	REFER TO M*	*	*	460/3/60	*	*	*	*	
WSHPU-W502																																	
6TH FLOOR																																	
WSHPU-W601A	DINING AREA	TRANE/ GEHE-090	7.5	*	*	R-410A/*	2,800	2,100 (1)	*	*	*	*	*	87.0/*	*	70.0/*	70.0/*	*	*	*	*	*	STANDARD EFFC. HORIZONTAL	NONE	* SPEED * STATIC	REFER TO M*	*	*	460/3/60	*	*	*	*	
WSHPU-W601B		TRANE/ GEHE-090	7.5				2,800																										
WSHPU-W601C		TRANE/ GEHE-090	7.5				2,800																										
WSHPU-W602	KITCHEN	TRANE/ GEHE-120	10.0	*	*	R-410A/*	4,000	200 (1)	*	*	*	*	*	87.0/*	*	70.0/*	70.0/*	*	*	*	*	*	STANDARD EFFC. HORIZONTAL	NONE	* SPEED * STATIC	REFER TO M*	*	*	460/3/60	*	*	*	*	

NOTES:

1. UNITS SHALL BE "ARI", RATED AND SHALL BE UL OR ETL LISTED AND LABELED BY THE FINAL POINT OF MANUFACTURE OR MODIFICATION. IF THE CONTRACTOR SUPPLIES A UNIT IN VIOLATION TO THIS, THEY WILL BE RESPONSIBLE TO HAVE EACH INDIVIDUAL UNIT FIELD INSPECTED AND LABELED BY UL AT NO COST TO THE OWNER.
2. UNIT SHALL BE DOUBLE WALL G90 CABINET CONSTRUCTION WITH MINIMUM OF 2" INJECTED POLYURETHANE FOAM R-13 INSULATION. NO FIBERGLASS.
3. UNIT SHALL BE G90 GALVANIZED STEEL CONSTRUCTION INSIDE AND OUT. UNIT INTERIOR AND EXTERIOR SURFACES SHALL BE COATED TO EXCEED 10,000 HR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B-117-95 PROCEDURES BY MANUFACTURER OR ALTERNATE CORROSION PROTECTION COATING WITH PRODUCTS BY SURFSIL, LUVATA, THERMOGUARD, OR BLYGOLD
4. COOLING AND RE-HEAT COILS SHALL BE PROVIDED WITH CORROSION PROTECTION COATED THAT EXCEEDS 10,000 HOUR SALT SPRAY TEST PER ASTM B 117-95 PROCEDURES BY MANUFACTURER (FULLY DIPPED COIL) OR ALTERNATE CORROSION PROTECTION COATING WITH PRODUCTS BY SURFSIL, LUVATA, THERMOGUARD, OR BLYGOLD.
5. PROVIDE ACCESS DOORS WITH SAME CONSTRUCTION AS ABOVE AND WITH FULL PIANO STAINLESS STEEL HINGES AND TOOL-LESS 1/4 TURN HANDLES. PROVIDE ACCESS DOORS FOR THE FILTERS SECTION, BLOWER SECTION, HEATER SECTION, COILS SECTION, AND CONTROL/COMPRESSORS CABINET.
6. PROVIDE UNIT WITH NON-CORROSIVE SLOPED DRAIN PAN.
7. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
8. PROVIDE DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
9. PROVIDE FILTER RACK FOR DUCTED RETURN UNITS.
10. PROVIDE FACTORY INSTALLED; BLOWER PROVING SWITCH, DIRTY FILTER SWITCH AND 24V CONDENSATE OVERFLOW SWITCH.
11. PROVIDE HANGING, ISOLATOR-SPRING.
12. PROVIDE PROGRAMMABLE THERMOSTAT FOR CAPACITY STAGED.
13. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRE DDC CONTROLLER WITH BACNET COMMUNICATION CAPABILITY.
14. PROVIDE DUCT MOUNTED SMOKE DETECTOR (SUPPLY) FOR ALL UNITS OVER 2000 CFM CAPACITY. COORDINATE WITH F.A. SYSTEM PRIOR TO PURCHASING
15. PROVIDE HOSE KIT WITH; STAINLESS STEEL HOSES, Y-STRAINER WITH BLOW DOWN VALVE AND HOSE CONNECTOR, ISOLATION BALL VALVE AT SUPPLY, AUTOMATIC SHUTOFF VALVE AT RETURN, CIRCUIT SETTER AT RETURN, REDUCER AND PRESSURE/ TEMPERATURE PORTS AT SUPPLY AND RETURN.
16. CONTRACTOR TO PROVIDE SERVICE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
17. REFER TO MECHANICAL CONTROL DRAWINGS FOR REQUIRED CONTROL DEVICES AND SEQUENCE OF OPERATION. COORDINATE WITH CONTROL CONTRACTOR PRIOR TO ORDERING.

(1) OUTSIDE AIR PROVIDED FROM THE OAU
(2) OUTSIDE AIR PROVIDED THRU THE UNIT

BASIS OF DESIGN IS TRANE; ACCEPTABLE ALTERNATE MANUFACTURERS ARE: FHP, McQUAY, CLIMATEMASTER, CARRIER. ANY ALTERNATE MANUFACTURER MUST PROVIDE ALL OF THE STANDARDS AND OPTIONAL FEATURES LISTED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONAL, WEIGHT AND ELECTRICAL CHANGES.

COORDINATION NOTE:

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

WEST BUILDING - 100% OUTSIDE AIR WATER SOURCE HEAT PUMP UNIT SCHEDULE

TAG	AREA SERVED	MANUF./ MODEL	NOMINAL TONS	CAPACITY CONTROL	EER/COP	REFRIG. (LBS)	SUPPLY FAN DATA			COOLING MODE DATA							HEATING MODE DATA			CONDENSER WATER			RE-HEAT COIL			AUX. HEAT	CONFIGURATION				ELECTRICAL DATA					GEN. DATA		
							SA (CFM)	OA (CFM)	ESP/TSP (IN WG)	TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	LATENT CAP. (MBH)	EAT DB/WB (°F/°F)	LAT DB/WB COIL(°F/°F)	LAT DB/WB UNIT(°F/°F)	COIL ROWS/FPI	EWT/LWT (°F/°F)	TOTAL CAP. (MBH)	EAT/LAT DB (°F/°F)	LAT DB/WB UNIT(°F/°F)	FLOW (GPM)	FLOW P.D. (FT. WG.)	UNIT CONNEC.	TOTAL CAP. (MBH)	LAT DB/WB UNIT(°F/°F)	OUTPUT (KW)	DEHUMIDIF.	BLOWER TYPE	COMP. TYPE	UNIT	RETURN AIR FLOW/ SUPPLY AIRFLOW	SA FAN MOTOR (HP/FLA)	NO. COMP. / RLA	VOLT./PH/HZ	FLA/MCA/MOCP	OPERATING WEIGHT(LB)	DIMENSION WxLxH(IN)	NOTES
OAU-W1	1ST FLOOR	AAON/ SA-023	23	VARIABLE (VCC)	15.0/4.2	R-410A/*	3,200	3,200	1.7/2.13	249.65	116.16	133.48	91.0/79.0	55.8/55.7	57.4/56.3	3/14	87.0/95.1	253.2	40.0/109.2	70.0/64.7	75.0	15.68	1-1/2"□	49.0	70.0/61.0	NONE	YES/ HGRH	BC PLENUM VFD	(1) VCC (1) ON-OFF	VERTICAL	REFER TO M2.1	2.0/3.4	2 @ 16.7	460/3/60	37.0/41.0/50	2,200	79.0x54.3x103	*
OAU-W4	4TH FLR & MEZZ	AAON/ SA-050	50	VARIABLE (VCC)	14.1/3.76	R-410A/*	6,600	6,600	1.7/2.17	542.87	251.05	291.82	91.0/79.0	54.2/54.1	55.9/54.7	3/14	87.0/97.0	547.2	40.0/112.5	70.0/64.5	150.0	15.7	2"□	112.0	70.0/60.1	NONE	YES/ HGRH	BC PLENUM VFD	(2) VCC (2) ON-OFF	VERTICAL	REFER TO M2.1	(2) 2.0/3.4	2 @ 18.6 2 @ 16.7	460/3/60	77.0/52.0/100	4,100	79.0x109.6x103	*
OAU-W5	5TH FLR & MEZZ.	AAON/ SA-045	45	VARIABLE (VCC)	14.6/3.94	R-410A/*	5,800	5,800	1.7/2.14	480.05	221.34	258.71	91.0/79.0	54.0/53.8	55.6/54.5	3/14	87.0/95.6	497.9	40.0/115.1	70.0/44.3	135.0	13.0	*	100.0	70.0/60.0	NONE	YES/ HGRH	BC PLENUM VFD	(2) VCC (2) ON-OFF	VERTICAL	REFER TO M2.1	(2) 2.0/3.4	2 @ 16.7 2 @ 16.7	460/3/60	74.0/78.0/90	4,100	79.0x109.6x103	*

NOTES:

1. UNITS SHALL BE "ARI", RATED AND SHALL BE UL OR ETL LISTED AND LABELED BY THE FINAL POINT OF MANUFACTURE OR MODIFICATION. IF THE CONTRACTOR SUPPLIES A UNIT IN VIOLATION TO THIS, THEY WILL BE RESPONSIBLE TO HAVE EACH INDIVIDUAL UNIT FIELD INSPECTED AND LABELED BY UL AT NO COST TO THE OWNER.
2. UNIT SHALL BE DOUBLE WALL G90 CABINET CONSTRUCTION WITH MINIMUM OF 2" INJECTED POLYURETHANE FOAM R-13 INSULATION. NO FIBERGLASS.
3. UNIT SHALL BE G90 GALVANIZED STEEL CONSTRUCTION INSIDE AND OUT. UNIT INTERIOR AND EXTERIOR SURFACES SHALL BE COATED TO EXCEED 10,000 HR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B-117-95 PROCEDURES BY MANUFACTURER OR ALTERNATE CORROSION PROTECTION COATING WITH PRODUCTS BY SURFSIL, LUVATA, THERMOGUARD, OR BLYGOLD
4. COOLING AND RE-HEAT COILS SHALL BE PROVIDED WITH CORROSION PROTECTION COATED THAT EXCEEDS 10,000 HOUR SALT SPRAY TEST PER ASTM B 117-95 PROCEDURES BY MANUFACTURER (FULLY DIPPED COIL) OR ALTERNATE CORROSION PROTECTION COATING WITH PRODUCTS BY SURFSIL, LUVATA, THERMOGUARD, OR BLYGOLD.
5. PROVIDE ACCESS DOORS WITH SAME CONSTRUCTION AS ABOVE AND WITH FULL PIANO STAINLESS STEEL HINGES AND TOOL-LESS 1/4 TURN HANDLES. PROVIDE ACCESS DOORS FOR THE FILTERS SECTION, BLOWER SECTION, HEATER SECTION, COILS SECTION, AND CONTROL/COMPRESSORS CABINET.
11. PROVIDE A FILTER RACK TO ACCOMMODATE FACTORY PROVIDED 2" MERV8 PLEATED FILTERS.
12. PROVIDE BACKWARD INCLINED, DIRECT DRIVEN PLENUM TYPE FANS WITH ALUMINUM WHEELS. PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE AND NEMA PREMIUM EFFICIENCY MOTORS.
13. PROVIDE MOTOR WITH OVERLOAD AND THERMAL PROTECTION.
14. PROVIDE DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
15. PROVIDE SINGLE POINT POWER CONNECTION.
16. PROVIDE WITH FACTORY MOUNTED HUMIDITY CONTROL SYSTEM; MODULATING HOT GAS RE-HEAT (MHGRH), VARIABLE CAPACITY SCROLL COMPRESSORS ON FIRST STAGE AND HOT GAS BYPASS ON LAG STAGES TO ACHIEVE INFINITE CAPACITY MODULATION FOR FULLY MODULATING TEMPERATURE AND HUMIDITY CONTROL
17. PROVIDE INTERNAL VIBRATION ISOLATION FOR FAN CARRIAGE, COMPRESSOR AND CONDENSER FANS.
18. PROVIDE WITH FACTORY MOUNTED BLOWER PROVING SWITCH, DIRTY FILTER SWITCH AND DRAIN PAN OVERFLOW SWITCH.
19. PROVIDE WITH FACTORY MOUNTED FLOW SWITCH + MODULATING HEAD PRESSURE CONTROL VALVES ON UNIT CONDENSER WATER LOOP.
26. THE FOLLOWING SENSORS MUST BE PROVIDED WITH THE UNIT:
    a. OUTSIDE AIR TEMPERATURE/HUMIDITY - FACTORY INSTALLED.
    b. SUPPLY AIR TEMPERATURE - FIELD INSTALLED IN S/A DUCT
    c. DIRTY FILTER - FACTORY INSTALLED
    d. DISCHARGE REFRIGERANT PRESSURE (EACH CKT.) - FACTORY INSTALLED.
    e. SUCTION REFRIGERANT PRESSURE (EACH CKT) - FACTORY INSTALLED.
    f. SPACE TEMPERATURE/HUMIDITY - FIELD INSTALLED AS INDICATED ON PLANS.
    g. PROVIDE DUCT MOUNTED STATIC PRESSURE SENSOR FOR FILTER LOADING CONTROL
27. PROVIDE FACTORY START-UP.
28. CONTRACTOR TO PROVIDE; Y-STRAINER WITH BLOW DOWN VALVE AND HOSE CONNECTOR, ISOLATION BALL VALVE AT SUPPLY, AUTOMATIC SHUTOFF VALVE AT RETURN, CIRCUIT SETTER AT RETURN, REDUCER AND PRESSURE/ TEMPERATURE PORTS AT SUPPLY AND RETURN.
29. CONTRACTOR TO PROVIDE DUCT MOUNTED SUPPLY AIR SMOKE DETECTOR. UNIT SHALL BE PROVIDED WITH REMOTE SAFETY SHUTDOWN TERMINALS TO CONNECT 3RD PARTY SMOKE DETECTOR

CABINET SOUND POWER LEVEL (dB)	OCTAVE BANDS							
	63	125	250	500	1000	2000	4000	8000
DISCHARGE LW	90	90	90	86	82	81	78	73
RETURN LW	83	85	87	82	76	73	69	59

Certification of Performance per (28)

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

ISSUED FOR PERMIT -
ISSUED FOR CONSTRUCTION -

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

SOUND DATA

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

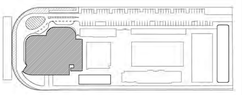
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954 903 9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△ DESCRIPTION DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BLDG. MECHANICAL SCHEDULES

PROJECT NUMBER: 010326.000
DATE: 04/29/22
SCALE: 12" = 1'-0"

SHEET
M6-001

8/23/2022 12:08:02 PM

WEST BUILDING - COOLING TOWER SCHEDULE

SELECTION DATA						TOTAL CAPACITY DATA PER MODULE						FAN DATA		MOTOR DATA PER MODULE							PIPING CONNECTION DATA PER CELL							GEN. DATA				
TAG	MANUF. & MODEL	LOCATION	SERVED	TYPE	# OF CELL	WATER FLOW (GPM)	EWT/LWT (°F/°F)	EAT WB (°F)	TOWER PUMP HEAD (FT.WG.)	TOWER HEAT REJECTED (MBH)	RESERVE CAPACITY (%)	CFM (MODULE)	DRIVE	HP/ FLA	RPM	EFF	VOLT/PH/HZ	MCA/MOCP	ENCLOSURE	CW (IN)		MAKE-UP (IN)	OVERFLOW (IN)	DRAIN (IN)	EQUALIZER (IN)	EFFICIENCY (GPM/HP)	EVAPORATED LOSS (% OF CIRCULATING FLOW)	DRIFT LOSS (% OF CIRCULATING FLOW)	VIBRATION ISOLATION	OPERATING WEIGHT (LB)	DIMENSIONS LxWxH (FT)
																				OUTLET	INLET										
CT-W1A	BAC/PT2-*	*	WEST BUILDING	INDUCED DRAFT COUNTERFLOW	2	*	95.0/85.0	80.0	*	*	*	*	BELT	*	*	*	460/3/60	*	TEAO	**	*	*	*	*	*	*	*	*	*	*	*
CT-W1B						*	95.0/85.0	80.0	*			*	BELT	*	*	*	460/3/60	*	TEAO	*	*	*	*	*	*	*	*	*			

NOTES

1. THERMAL PERFORMANCE SHALL BE C.T.I. CERTIFIED. AND 2020 FLORIDA ENERGY CONSERVATION CODE (FEC), TABLE 503.2.3. COMPLIANT.
2. COOLING TOWER SHALL BE FIRE RATED (FM LISTED) OR FIRE PROTECTED PER NFPA 214.
3. COOLING TOWER SHALL BE COMPLIANT WITH OSHA SAFETY STANDARDS
4. COOLING TOWER STRUCTURE AND ANCHORAGE SELECTED TO MEET THE LOCAL CODE WIND LOADS REQUIREMENTS.
5. COOLING TOWER SHALL BE ALL SS CONSTRUCTION:
   - 304 STAINLESS STEEL CASING.
   - 304 STAINLESS STEEL STRUCTURAL.
   - 304 STAINLESS STEEL COLLECTION BASIN.
   - 304 STAINLESS STEEL DISTRIBUTION BASIN.
   - HDG STEEL FAN GUARD.
   - PVC FILM FILL WITH INTEGRAL LOUVERS AND DRIFT ELIMINATORS.
6. PROVIDE (5) YEAR WARRANTY FOR ENTIRE COOLING TOWER.
7. PROVIDE WITH WHISPER QUIET FAN.
8. PROVIDE WITH WATER MAKE-UP FLOAT VALVE.
9. PROVIDE WITH MECHANICAL VIBRATION CUT-OUT SWITCH.
10. PROVIDE WITH ACCESS DOOR PLATFORM AND LADDER PACKAGES.
11. PROVIDE WITH FACTORY INSTALLED BASIN SWEEPER PIPING.
12. PROVIDE EXTERNAL EQUALIZING LINE WITH BUTTERFLY VALVE.
13. PROVIDE WITH HIGH EFFICIENCY FAN MOTOR (TEAO) COMPATIBLE FOR USE WITH VFD.
14. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) WITH DISCONNECT/STARTER AND BYPASS FOR EACH MOTOR. REFER TO VFD SCHEDULE.
15. PROVIDE ALL ASSOCIATED ELECTRICAL AND CONTROLS ITEMS. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION.
16. PROVIDE CONTROL WIRING, CONDUITS, SENSORS, ETC. FOR CONTROL BY BMS SYSTEM.
17. PROVIDE ISOLATION VALVES AND FLOW BALANCING VALVES FOR EACH CELL.
18. PROVIDE SS FASTENERS.
19. PROVIDE EPOXY COATING ON ALL EXPOSED PIPING AND SUPPORTS
20. PROVIDE BAS INTERFACE MODULE (BACNET COMPATIBLE). WEB ENABLED
21. COORDINATE CT SUPPORT FRAME AND ATTACHMENT WITH STRUCTURAL ENGINEER.
22. INSTALL CT AT MINIMUM 48" ABOVE FINISH ROOF (AFR).
23. CT SHALL BE TIED INTO THE EMERGENCY/ STANDBY GENERATOR. COORDINATE W/ ELECTRICAL

GENERAL NOTES:

1. MOTOR STARTERS, FUSED DISCONNECTS AND ALL EQUIPMENT POWER WIRING BY ELEC. CONTRACTOR; COORDINATE PRIOR TO ANY WORK AND PURCHASING.
2. ALL MOTORS DRIVEN BY A VARIABLE FREQUENCY DRIVE SHALL INCLUDE A MAINTENENCE FREE, CIRCUMFERENCIAL, CONDUCTIVE MICRO-FIBER SHAFT GROUNDING RING EQUAL TO AEGIS SGR TO DISCHARGE SHAFT CURRENTS TO THE GROUND.

BASIS OF DESIGN IS "BAC"; ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "MARLEY, EVAPCO" ANY ALTERNATES MUST BE APPROVED PRIOR TO BID DAY AND MEET ALL DESIGN SPECIFICATIONS.

SOUND DATA

OCTAVE BAND CENTER FREQUENCY (Hz)	SOUND PRESSURE (dB)						SOUND POWER (dB)
	AIR INLET		MOTOR SIDE		TOP		
	@ 5 FT	@ 50 FT	@ 5 FT	@ 50 FT	@ 5 FT	@ 50 FT	
63	85	80	84	77	84	76	110
125	86	77	86	78	87	78	110
250	83	74	84	74	86	77	107
500	79	68	78	68	82	72	101
1000	74	64	74	63	76	64	95
2000	70	60	72	59	73	60	91
4000	71	55	71	58	70	58	90
8000	71	57	72	57	67	55	89
A-WEIGHTED SOUND POWER LEVEL (dBA)	81	71	82	71	84	73	-

WEST BUILDING - PUMP SCHEDULE

SELECTION DATA						PUMP DATA							MOTOR DATA						GEN. DATA				
UNIT TAG	# OF UNITS	MANUF. & MODEL	TYPE	SERVICE	LOCATION	WATER FLOW (GPM)	TDH (FT. WG.)	NPSHR (FT. WG.)	MIN. EFF. (%)	PEI RATING PUMP & MOTOR	SUCTION/ DISCHARGE (IN)	IMPELLER (IN)	TYPE	BHP/HP	NOL HP	RPM	VOLTAGE	CONTROL	VIBRATION ISOLATION	MIN. STAT. DEFLECT.	OPERATING WEIGHT(LB)	DIMENSION LxWxH(IN)	NOTES
CWP-W1 & W2	2	TACO/ KS-* *	VERTICAL IN-LINE SPLIT-COUPLED	CONDENSER WATER/ BUILDING-CLOSED LOOP	PUMP ROOM	*	*	*	*	*	*	*	TEFC	*	*	*	460/3/60	VFD/ BAS	*	*	*	*	1-16,18
CWP-W3 (STAND-BY)	1		VERTICAL IN-LINE SPLIT-COUPLED	CONDENSER WATER/ BUILDING-CLOSED LOOP	PUMP ROOM																		1-16,18
CWP-W4 & W5	2	TACO/ KS-* *	VERTICAL IN-LINE SPLIT-COUPLED	CONDENSER WATER/ OPEN LOOP-COOLING TOWER	PUMP ROOM	*	*	*	*	*	*	*	TEFC	*	*	*	460/3/60	CT./ BAS	*	*	*	*	1-5,7-18
CWP-W6 (STAND-BY)	1																						1-5,7-18

NOTES

1. PUMP & MOTOR PEI VALUE MUST MEET OR EXCEED DEPARTMENT OF ENERGY 2020 EFFICIENCY REGULATIONS.
2. PROVIDE BRONZE IMPELLER HYDRAULICALLY AND DYNAMICALLY BALANCED.
3. TRIM PUMP IMPELLERS AS REQUIRED TO PROVIDE SCHEDULED FLOW RATE, REQUIRED HEAD, NPSH, AND MINIMUM PUMP EFFICIENCY. IMPELLER SHALL NOT EXCEED RECOMMENDED PERCENTAGE OF MAXIMUM DIAMETER.
4. PROVIDE PREMIUM EFFICIENCY NON-OVERLOADING MOTOR. MOTOR SHALL NOT OVERLOAD OVER THE ENTIRE IMPELLER CURVE.
5. ALL MOTORS DRIVEN BY A VARIABLE FREQUENCY DRIVE (PWM) SHALL INCLUDE A MAINTENANCE FREE, CIRCUMFERENTIAL, CONDUCTIVE MICRO-FIBER SHAFT GROUNDING RING EQUAL TO AEGIS SGR TO DISCHARGE SHAFT CURRENTS TO THE GROUND.
6. PROVIDE VFD FOR PUMP MOTOR WITH DISCONNECT AND BYPASS. REFER TO VFD SCHEDULE FOR MORE INFORMATION.
7. PROVIDE DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
8. PROVIDE 3-PHASE PROTECTION FOR EACH LEG.
9. PROVIDE OSHA SAFETY GUARDS AS REQUIRED.
10. PUMPS MUST UTILIZE SPLIT COUPLING DESIGN. CLOSED COUPLED NOT ACCEPTABLE.
11. USE DOUBLE ARCH FLEXIBLE PIPE CONNECTORS WITH CONTROL RODS ON PUMP SUCTION AND DISCHARGE TO PREVENT BLADE PASSAGE FREQUENCY.
12. PROVIDE WITH SPECIFIED SUCTION AND DISCHARGE FLANGES. SMALLER SIZES NOT ACCEPTABLE
13. PROVIDE WITH TACO MULTI-PURPOSE VALVE AND SUCTION DIFFUSER. VICTAULIC NOT ACCEPTABLE ALTERNATE ON PUMP VALVES
14. PROVIDE FLOW SENSOR CONTROLLED BY BAS
15. PROVIDE BAS (BACNET) CONTROL INTERFACE MODULE.
16. PROVIDE ALTERNATING DUTY FOR THE PUMPS MONITORED AND PROGRAMMED BY BAS.
17. CONTRACTOR SHALL VERIFY PUMP NPSH REQUIREMENTS BASED ON ACTUAL FIELD CONDITIONS AND PIPING CONFIGURATION PRIOR TO PURCHASING AND INSTALLATION TO INSURE THAT CAVITATION WILL NOT OCCUR.
18. CONSULT WITH FACTORY REPRESENTATIVE TO CONFIRM PIPING AND LAYOUT PRIOR TO CONSTRUCTION DIVERSIFIED FLUID CONTROLS, INC. 954-492-1166

BASIS OF DESIGN IS "TACO"; ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "ARMSTRONG, B&G, AURORA, GRUNDFOSS," ANY ALTERNATES MUST BE APPROVED PRIOR TO BID DAY AND MEET ALL DESIGN SPECIFICATIONS.

COORDINATION NOTE:

MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER PRIOR TO BID.

WEST BUILDING - AIR SEPARATOR SCHEDULE

SELECTION DATA				GENERAL DATA						
UNIT TAG	MANUFACTUREE & MODEL (*)	LOCATION	SEVICE	WATER FLOW (GPM)	CONNECTIONS (IN)			PRESSURE DROP(FT.WG.)	DIMENSION ØxH (IN)	WEIGHT (LBS)
					INLET/OTLET	AIR OUTLET	DRAIN			
AS-W1	TACO/ AC**F-125	PUMP ROOM	CW BLDG.	*	*	*	*	*	*	*

NOTES

1. THE UNIT SHALL BE DESIGNED, CONSTRUCTED AND STAMPED FOR 125 PSIG @ 350°F IN ACCORDANCE WITH SECTION VIII, DIVISION I OF THE ASME BOILER AND PRESSURE VESSEL CODE.
2. PROVIDE STEEL SHEEL, STAINLESS STEEL SYSTEM STRAINER, REMOVABLE, WITH 3/16"Ø PERFORATION WITH 51% OPEN AREA, STAINLESS STEEL AIR COLLECTOR TUBE WITH 5/32"Ø PERFORATION AND 63% OPEN AREA AND STEEL BAFFLE/COLLECTOR TUBE SUPPORT ASSEMBLY.
3. PROVIDE WITH AUTOMATIC AIR VENT
4. PROVIDE 16" BASE RING.
5. PROVIDE WITH FACTORY INSTALLED BLOWDDOWN VALVE.

BASIS OF DESIGN IS TACO; ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "B&G, ARMSTRONG, GRUNDFOS" ANY ALTERNATES MUST BE APPROVED PRIOR TO BID DAY AND MEET ALL DESIGN SPECIFICATIONS

WEST BUILDING - EXPANSION TANK SCHEDULE

SELECTION DATA							GENERAL DATA			
UNIT TAG	MANUFACTUREE & MODEL (*)	LOCATION	SEVICE	TYPE	TANK VOLUME (GALLONS)	ACCEPTANCE (GALLONS)	CONNECTION (IN)		WEIGHT (LBS.)	DIMENSION ØxH (IN)
							SYSTEM	DRAIN		
ET-E1	TACO/ CA***-125	PUMP ROOM/ ROOF	CW/ CLOSED LOOP	BLADDER	*	*	*	*	*	*

NOTES

1. THIS UNIT SHALL BE DESIGNED, CONSTRUCTED, AND STAMPED FOR 125 PSIG @350F IN ACCORDANCE WITH SECTION VIII, DIVISION 1 OF ASME BOILER AND PRESSURE VESSEL CODE.
2. PROVIDE CARBON STEEL CONSTRUCTION WITH HEAVY DUTY BUTYL RUBBER DIAPHRAGM.
3. PROVIDE FACTORY PRE CHARGED WITH 0.302"-32 CHARGING VALVE CONNECTION TO FACILITATE THE ON SITE CHARGING OF THE TANK TO MEET SYSTEM REQUIREMENT.

BASIS OF DESIGN IS TACO: ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "B&G, ARMSTRONG" ANY ALTERNATES MUST BE APPROVED PRIOR TO BID DAY AND MEET ALL DESIGN SPECIFICATIONS.

WEST BUILDING- PLATE HEAT EXCHANGER SCHEDULE

GENERAL	TAG		HX-E1 & HX-E2
	No. OF UNITS		2
	MANUFACT./ MODEL		MUELLER ACCU-THERM
	PLATE TYPE/ FRAME TYPE		*
	LOCATION		*
	SERVICE		CONDENSER WATER
	HOT SIDE		BUILDING (LOAD)
	COLD SIDE		COOLING TOWER
	# OF PLATES		*
	TOTAL HEAT TRANSFER AREA	(SQ. FT.)	*
	TOTAL HEAT EXCHANGED	(BTU/H)	*
	DESIGN PRESSURE	(PSI)	150
	MAX. WORKING TEMP.	(°F)	230
	FLOW DIRECTION		*
	PIPE CONN. HOT SIDE (INLET/OUTLET)		*
	PIPE CONN. COLD SIDE (INLET/OUTLET)		*
	OPERATING WEIGHT	(LBS)	*
	DIMENSION (WxHxL)	(IN)	*
HOT SIDE	WATER FLOW	(GPM)	*
	EWT/LWT	(°F/°F)	97.0/87.0
	WATER PRESSURE DROP	(FT. WG.)	*
COLD SIDE	WATER FLOW	(GPM)	*
	WATER TEMP. EWT/LWT	(°F/°F)	85.0/95.0
	WATER PRESSURE DROP	(FT. WG.)	*

NOTES

1. HEAT EXCHANGER SHALL BE FURNISHED WITH ASME CERTIFICATION CODE AND STAMP
2. PROVIDE FOR MINIMUM 150# PSIG CLASS IN BOTH CIRCUITS.
3. TYPE 304 SS PLATE CONSTRUCTION. MIN. 0.50MM WITH RUBBER LINED FLANGES
4. PROVIDE NON-GLUED (PRES-TITE) NITRILE GASKET SYSTEM.
5. ENTIRE HEAT EXCHANGER SHALL BE OF BOLTED CONSTRUCTION. PROVIDE CARBON STEEL BOLTS COATED WITH RUST PREVENTATIVE LUBRICANT AND PLASTIC SLEEVES. STAINLESS STEEL HARDWARE NOT ACCEPTABLE.
6. PROVIDE FRAME FOR MIN. 15% EXPANSION IN CAPACITY.

BASIS OF DESIGN IS TACO: ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "TRANTER, ALFA-LAVAL, CALMAC, SONDEX" ANY ALTERNATES MUST BE APPROVED PRIOR TO BID DAY AND MEET ALL DESIGN SPECIFICATIONS.

WEST BUILDING - FREQUENCY DRIVE SCHEDULE

TAG	MANUF. & MODEL	UNIT	LOCATION	MOUNTING	VOLTAGE	MOTOR POWER (HP)	ENCLOSURE TYPE
VFD-W1	DANFOSS	CWP-W1/ CW CLOSED LOOP	PUMP RM	WALL/ INSIDE	460/3/60	*	NEMA 1
VFD-W2	DANFOSS	CWP-W2/ CW CLOSED LOOP	PUMP RM	WALL/ INSIDE	460/3/60	*	NEMA 1
VFD-W3	DANFOSS	CWP-W3/ CW CLOSED LOOP	PUMP RM	WALL/ INSIDE	460/3/60	*	NEMA 1
VFD-W4	DANFOSS	CT-W1A/ CW LOOP	PUMP RM	WALL/ INSIDE	460/3/60	*	NEMA 1
VFD-W5	DANFOSS	CT-W1A/ CW LOOP	PUMP RM	WALL/ INSIDE	460/3/60	*	NEMA 1

NOTES:

1. ALL VFD SHALL BE PROVIDED WITH BY-PASS, AND DISCONNECT SWITCH. SEE NOTES IN M000

TOWER CLEAN SEPARATOR SYSTEM SCHEDULE

SELECTION DATA								GENERAL DATA		
UNIT TAG	# OF UNITS	MANUF. & MODEL (*)	SEVICE	SEPARATOR MODEL	FLOW (GPM)	PUMP (HP)	VOLTAGE	INLET/OUTLET (IN)	DIMENSION (IN)	WEIGHT (LBS.)
TCS-E1	*	LAKOS/ *	COOLING TOWER	*	*	*	460/3/60	*	*	*

NOTES:

1. PROVIDE WITH FACTORY MOUNTED PUMP.
2. PROVIDE WITH SOLIDS SEPARATOR.
3. PROVIDE WITH MOTORIZED BALL VALVES PROVIDE WITH NEMA 4X CONTROL PANEL.
4. PROVIDE BASKET STRAINER BY CONTRACTOR IF NOT FACTORY SUPPLIED.

CHEMICAL POT FEEDER SCHEDULE

SELECTION DATA					
UNIT TAG	MANUF. & MODEL (*)	LOCATION	SEVICE	TYPE	TANK VOLUME (GALS.)
CPF-1	GRISWOLD WATER SYSTEMS	MECH. ROOM	CW CLOSED LOOP	BY-PASS	*

(*) = APPROVED EQUAL : ANDERSON CHEMICAL, AMPION, AQUA-CHEM

NOTES:

1. PROVIDE STEEL CONSTRUCTION WITH CORROSION RESISTANT EXTERIOR COATING.
2. PROVIDE THREADED FILL CAP WITH GASKET SEAL AND DIAPHRAGM.

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

Certification of Authorization #8189

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

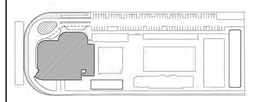
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△ DESCRIPTION DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BLDG. MECHANICAL SHEDULE

ISSUED FOR PERMIT -
ISSUED FOR CONSTRUCTION -

PROJECT NUMBER: 010326.000
DATE: 05/16/22
SCALE: 12" = 1'-0"

SHEET
M6-002

8/23/2022 12:08:03 PM

WEST BUILDING - DAMPER SCHEDULE

SELECTION DATA					POSITION						GENERAL DATA			
UNIT TAG	LOCATION/ EQUIPMENT	MANUF. & MODEL (*)	TYPE	SIZE (IN) WXH	NORMAL	ALARM: SMOKE CONTROL	ALARM: SMOKE REMOVAL F.O.I	ALARM: SMOKE REMOVAL NON F.O.I	POWER FAIL	LINK TEMP. (°F)	VOLTAGE	CONTROL/ MONITORING	NOTES
LEVEL 1													
FSD-W102	SMOKE- PURGE/ RISER 2	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	32x32	CLOSED	CLOSED	OPEN	OPEN	CLOSED	250	120/1/60	FA/ BAS	1-8
LEVEL 2													
FSD-W201													
LEVEL 3													
FSD-W301													
LEVEL 4													
FSD-W401	SMOKE- PURGE/ RISER 1	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	36x24	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	250	120/1/60	FA/ BAS	1-8
FSD-W402	SMOKE- PURGE/ RISER 2	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	24x18	CLOSED	CLOSED	OPEN	OPEN	CLOSED	250	120/1/60	FA/ BAS	1-8
LEVEL 4- MEZZANINE													
FSD-W4M01	SMOKE- PURGE/ RISER 1	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	80x24	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	250	120/1/60	FA/ BAS	1-8
FSD-W4M02	SMOKE- PURGE/ RISER 2	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	32x32	CLOSED	CLOSED	OPEN	OPEN	CLOSED	250	120/1/60	FA/ BAS	1-8
LEVEL 5													
FSD-W501	SMOKE- PURGE/ RISER 1	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	24x36	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	250	120/1/60	FA/ BAS	1-8
FSD-W502													
*													
LEVEL 5- MEZZANINE													
FSD-W5M01	SMOKE- PURGE/ RISER 1	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	80x24	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	250	120/1/60	FA/ BAS	1-8
FSD-W5M02	SMOKE- PURGE/ RISER 2	GREENHECK/ FSD-211	COMBINATION FIRE SMOKE DAMPER	32x32	CLOSED	CLOSED	OPEN	OPEN	CLOSED	250	120/1/60	FA/ BAS	1-8
*													
LEVEL 6													
MD-W601	RESTAURANT/ SEF-W03	GREENHECK/ ICD-44	THERMALLY BROKEN BLADE INSULATED/ MOTORIZED	*	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	-	120/1/60	FA/ BAS	1-8
FSD-W602													
MD-W603		GREENHECK/ ICD-44	THERMALLY BROKEN BLADE INSULATED/ MOTORIZED								120/1/60	*/ BAS	1-7
ROOF													
MD-WR01	ELEV. W-A&B/ EPF-W1	GREENHECK/ VCD-23	MOTORIZED	36x36	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-8
MD-WR02	ELEV. W-A&B/ GR-W1	GREENHECK/ VCD-23	MOTORIZED	36x24	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-9
MD-WR03	STAIR W-C/ SPF-W3	GREENHECK/ VCD-23	MOTORIZED	28x28	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-8
MD-WR04	STAIR W-C/ GR-W2	GREENHECK/ VCD-23	MOTORIZED	36x24	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-8
MD-WR05	ELEV. W-C/ EPF-W2	GREENHECK/ VCD-23	MOTORIZED	32x32	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-8
MD-WR06	ELEV. W-C/ GR-W3	GREENHECK/ VCD-23	MOTORIZED	36x24	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-9
MD-WR07	STAIR W-B/ SPF-W2	GREENHECK/ VCD-23	MOTORIZED	28x28	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-8
MD-WR08	STAIR W-B/ GR-W4	GREENHECK/ VCD-23	MOTORIZED	36x24	CLOSED	OPEN	CLOSED		OPEN	-	120/1/60	FA/ BAS	1-8
MD-WR09	SMOKE- PURGE/ SEF-W1	GREENHECK/ VCD-23	MOTORIZED	48x48	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	-	120/1/60	FA/ BAS	1-8
MD-WR10	SMOKE- PURGE/ SEF-W2	GREENHECK/ VCD-23	MOTORIZED	48x48	CLOSED	CLOSED	OPEN	CLOSED	CLOSED	-	120/1/60	FA/ BAS	1-8

(*) = APPROVED EQUAL: RUSKIN, NAILOR, AIR BALANCE

NOTES:

1. DAMPER SHALL BE "AMCA" CERTIFIED (AIR LEAKAGE, AIR PERFORMANCE & ENERGY EFFICIENCY RATINGS).
2. DAMPERS SHALL BE LEAKAGE CLASS I.
3. PROVIDE ELECTRIC ACTUATOR AND CONTROL TRANSFORMER AS REQUIRED BY DAMPER MANUFACTURER, POWERED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTOR PRIOR TO ORDERING.
4. PROVIDE OPEN/CLOSED 2-POSITION DAMPER
5. PROVIDE DAMPER POSITION VERIFICATION FOR BOTH OPEN AND CLOSED.
6. PROVIDE END SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR.
7. INTERLOCK WITH ASSOCIATE EQUIPMENT, PROVIDE EQUIPMENT TIME DELAY RELAY WHERE NECESSARY TO ALLOW FOR DAMPER OPERATION. REFER TO FAN SCHEDULE FOR DETAILS.
8. TIE TO THE FIRE ALARM SYSTEM (FAS)
9. DAMPER WILL BE OPEN UPON ACTIVATION OF THE AREA SMOKE DETECTION. REFER TO FA DRAWINGS.

WEST BUILDING - GRAVITY VENTILATOR SCHEDULE

SELECTION DATA				GENERAL DATA							
TAG	SERVICE AREA	MANUF./ MODEL	CONFIG.	VOLUME (CFM)	SP (IN WG)	THROAT AREA (SQ.FT.)	WEIGHT (LBS)	THROAT DIM. LxW (IN)	CURB DIM. LxW (IN)	HOOD DIM. LxW (IN)	NOTES
GR-W1	ELEVATOR W-A & W-B PRESSURIZATION	GREENHECK/ FGR-24x36	RELIEF	14,000	-	6.0	100	36x24	42x30	48x36	1,3-8
GR-W2	STAIR W-C PRESSURIZATION	GREENHECK/ FGR-24x36	RELIEF	6,500	-	6.0	100	36x24	42x30	48x36	1-8
GR-W3	ELEVATOR W-C PRESSURIZATION	GREENHECK/ FGR-24x36	RELIEF	9,000	-	6.0	100	36x24	42x30	48x36	1,3-8
GR-W4	STAIR W-B PRESSURIZATION	GREENHECK/ FGR-24x36	RELIEF	7,500	-	6.0	100	36x24	42x30	48x36	1-8

(*) APPROVED EQUAL MANUFACTURER: COOK

NOTES:

1. PROVIDE BIRD SCREEN.
2. PROVIDE HORIZONTAL MOUNT BAROMETRIC RELIEF DAMPER (BRD).
3. PROVIDE MOTORIZED DAMPER. REFER TO DAMPER SCHEDULE FOR MOTORIZED DAMPER INFORMATION.
4. PROVIDE UNIT AND ATTACHED ACC. COATED WITH "HI-PRO POLYESTER" OR EQUAL.
5. PROVIDE ROOF CURB AND CURB SEAL.
6. PROVIDE TIE DOWN POINTS, SET OF 4.
7. HIGH WIND RATED (+/- 130 PSF RATING).
8. FLORIDA PRODUCT APPROVAL #FL12917.1 & MIAMI-DADE NOA#19-0808.02

WEST BUILDING - VAV BOX UNIT SCHEDULE

SELECTION DATA				PRIMARY AIR DATA					HEATER DATA				GEN. DATA		
UNIT TAG	MANUF. & MODEL	TYPE	INLET DIA.	COOLING MIN. CFM	HEATING MIN. CFM	NOMINAL MAX. CFM	AIR PRESS. DROP ("WG)	ESP("WG)	KW	STEPS	VOLTAGE	LxWxH(")	WEIGHT(LB)	NOTES
AC-*/ * LEVEL														
VAV-W*01	TRANE/ VCEF	SGL. DUCT	10	165	349	1,400	0.04	0.4	5.0	SCR	460/1/60	42.5x21.5x13.5	81.0	1-9
VAV-W*02														
VAV-W*03														
VAV-W*04														
VAV-W*05														
VAV-W*06														
*														
VAV-W*01														
VAV-W*02														
VAV-W*03														
VAV-W*04														
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VAV-W*01														
VAV-W*02														
VAV-W*03														
VAV-W*04														
VAV-W*05														
VAV-W*06														
VAV-W*07														
*														

(*) EQUIVALENT MANUFACTURER: TITUS, METALAIR

1=4 KW= 277/1
5=7 = 460/1
8 & UP= 460/3

NOTES

1. ALL VAV BOXES SHALL BE AHRI CERTIFIED AND UL LISTED.
2. PROVIDE WITH FACTORY MOUNTED AND WIRED DDC CONTROLLER, PROVIDE ROOM THERMOSTAT/SENSOR WITH OVERRIDE CAPABILITY.
3. POWER BY ELECTRICAL CONTRACTOR. CONTROL WIRING BY CONTROL CONTRACTOR. CONTROL POWER TRANSFORMER (208 TO 24 VOLTS) BY VAV MANUFACTURER.
4. PROVIDE WITH SINGLE POINT OF CONNECTION.
5. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH, DOOR INTERLOCK TYPE.
6. PROVIDE BOXES WITH FOIL FACE INSULATION.
7. PROVIDE HANGER BRACKETS.
8. FOR BOXES WITH ELECTRIC HEATER, BOX SHALL BE FUSED BY MANUFACTURER IF REQUIRED MCA (AMPS) IS BELOW THE MIN. AVAILABLE SIZE OF COMMERCIAL BREAKER. CONTRACTOR SHALL COORDINATE PRIOR TO PURCHASING.
9. BOX ACTUATORS SHALL BE SPRING-RETURN TYPE TO ALLOW BOXES TO FAIL FULLY OPEN WHEN VFD IS IN BYPASS MODE (VFD FAILURE)

WEST BUILDING - LOUVER SCHEDULE

SELECTION DATA						GENERAL DATA							
TAG	SERVICE AREA	LOCATION	DUTY	MANUF. & MODEL	VOLUME (CFM)	MIN. FREE AREA (SQ.FT.)	VELOCITY (FPM)	PD ("W.G.)	MIN. SIZE (WxH) (IN)	WEIGHT (LBS)	FRAME TYPE	NOTES
RL-W***	*	*	RELIEF	GREENHECK/ EVH-660D	*	*	*	*	*	*	FLANGE	AS NOTED

(*) EQUIVALENT MANUFACTURER: RUSKIN

NOTES:

1. LOUVER SHALL BE "AMCA" CERTIFIED (SOUND, AIR PERFORMANCE & WATER PENETRATION).
2. LOUVER SHALL BE FLORIDA PRODUCT APPROVAL # FL16785.1 & MIAMI-DADE NOA #17-0807.20
3. PROVIDE WITH BIRD SCREEN.
4. PROVIDE MINIMUM ONE YEAR WARRANTY.
5. PROVIDE LOUVER WITH CORROSION PROTECTION COATED BY MANUFACTURER WITH 10 YEARS FINISH WARRANTY; 4,000 HOUR SALT SPRAY RESISTANCE TEST PER ASTM B117, 2000 HR AGGRESSIVE SALT SPRAY RESISTANCE TEST PER ASTM G85 AND 4,000 HR HUMIDITY RESISTANCE. FINAL COLOR SHALL SELECTED BY ARCHITECT.

ISSUED FOR	
ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

Certification of Authorization #8189

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

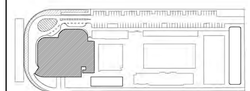
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△ DESCRIPTION DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BLDG. MECHANICAL SCHEDULE

PROJECT NUMBER: 010326.000
DATE: 05/16/22
SCALE: 12" = 1'-0"

SHEET
M6-003

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WEST BUILDING- 100% OA ROOFTOP WATER-SOURCE HEAT PUMP SCHEDULE

GENERAL DATA	A/C UNIT TAG		OAU-W6
	AREA SERVED		RESTAURANT AT 6TH FLOOR
	MANUFACTURER/ MODEL		AAON/ RN-015
	OUTDOOR AIR TEMP. (°F)		95.0
	AC UNIT ARI EER/IEER		14.6
	REF./LBS.		R-410a/ *
	OPERATING WEIGHT LBS.		1,700
	DIMENSIONS L x W x H (IN.)		88.3x72.4x50.2
	AIR FLOW CONFIGURATION		DOWN DISCHARGE/ NO RETURN
	HUMIDITY CONTROL		YES/ MHGRH
	SYSTEM CONTROL		SPACE TEMPERATURE & HUMIDITY CONTROL (SAT=55°F)
	AIR SYSTEM TYPE		CAV
	FILTER TYPE/ MIN. EFF.		4"/ MERV-8
	SOUND dBA)	(dBA)	*
COOLING SECTION	NOMINAL TONNAGE/STAGES		15.0/ VARIABLE (VCC)
	TOTAL COOLING CAP.	(MBH.)	189.32
	TOTAL SENSIBLE CAP.	(MBH.)	87.62
	TOTAL LATENT CAP.	(MBH.)	101.70
	E.A.T. D.B./W.B. (COIL)	(°F)	91.0/79.0
	L.A.T. D.B./W.B. (COIL)	(°F)	54.2/54.1
	L.A.T. D.B./W.B. (UNIT)	(°F)	55.6/54.6
	SUPPLY AIR FLOW	(CFM)	2,300
	OUTSIDE AIR	(CFM)	2,300
	COIL ROWS/FPI		4/14
HEATER SECTION	HEATER TYPE / CONTROL TYPE		HEAT PUMP/ VARIABLE (VCC)
	HEATER OUTPUT	(MBH)	218.7
	HEATER ENT./ LEAV. TEMP.	(°F)	40.0/123.1
	AUXILIARY HEATER		NONE
CONDENSER WATER	CONDENSER WATER FLOW	(GPM)	46.0
	WATER PRESSURE DROP	(FT. WG.)	21.34
	UNIT WATER CONNECTION	(IN)	*
	COOLING WATER, E.W.T. /L.W.T	(°F)	87.0/97.1
	HEATING WATER, E.W.T. /L.W.T	(°F)	70.0/62.7
RE-HEATER SECTION	RE-HEATER TYPE		MODULATED HGRH
	TOTAL CAPACITY	(MBH)	39.0
	LEAVING AIR TEMP. (DB/WB)	(°F)	70.0/60.2
	LEAVING R.H.	(%)	57
SUPPLY FAN	SUPPLY FAN No./ TYPE/ DRIVE TYPE		1/DD/BC PLENUM
	SUPPLY FAN E.S.P./ T.S.P	(IN. W.G.)	1.5/2.07
	SUPPLY FAN MOTOR BHP/NOMINAL HP/FLA		1.19/2.0/3.4
	VFD		YES
ELECT. DATA	VOLTAGE		460/3/60
	FLA/MCA/MOCP		28.0/31.0/40
	NO. OF COMPRESSORS/ COMP. RLA		12.6 (DIGITAL SCROLL) 12.2 (SCROLL)

NOTES:

1. UNITS SHALL BE "ARI", RATED AND SHALL BE UL OR ETL LISTED AND LABELED BY THE FINAL POINT OF MANUFACTURE OR MODIFICATION. IF THE CONTRACTOR SUPPLIES A UNIT IN VIOLATION TO THIS, THEY WILL BE RESPONSIBLE TO HAVE EACH INDIVIDUAL UNIT FIELD INSPECTED AND LABELED BY UL AT NO COST TO THE OWNER.
2. PROVIDE FACTORY BUILT ROOF-CURB 14" HIGH (OR HIGHER IF NECESSARY), COORDINATE WITH ROOF STRUCTURE. THE CONTRACTOR SHALL CHECK AND COORDINATE THE ROOF-CURB WITH THE ROOF PITCH TO ASSURE THE CURB IS INSTALLED LEVEL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND INSURE THAT UNIT IS MIN. 8" AFR FOR CODE COMPLIANCE. MANUFACTURER SHALL PROVIDE ROOF CURB WITH CORRESPONDING METRO-DADE COUNTY N.O.A. PROVIDE TIE DOWN KIT.
3. UNIT SHALL BE 2" DOUBLE WALL CONSTRUCTION.
4. PROVIDE 2-POSITION OUTSIDE AIR (MOTORIZED) DAMPER WITH A FACTORY MOUNTED AND WIRED ACTUATOR. DAMPER SHALL AUTOMATICALLY CLOSE WHEN THE UNIT IS TURNED OFF.
5. PROVIDE COMPRESSOR 5-YEAR WARRANTY AND 1-YEAR PART WARRANTY.
6. PROVIDE INDEPENDENT REFRIGERANT CIRCUITS. REFRIGERANT CIRCUITS SHALL INCLUDE LIQUID LINE FILTER DRIERS, TXV, CRANCKASE HEATERS, HIGH AND LOW PRESSURE CUTOUTS AND SHRADER SERVICE FITTINGS ON THE HIGH AND LOW PRESSURE SIDES OF THE SYSTEM. COMPRESSORS SHALL BE INSTALLED INSIDE AN ENCLOSED COMPARTMENT WITH FULL SIZE SERVICE ACCESS DOORS.
7. PROVIDE HIGH EFFICIENCY MOTOR WITH OVERLOAD AND THERMAL PROTECTION.
8. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
9. PROVIDE THRU-THE-BASE CONNECTIONS. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY WORK AND PURCHASING.
10. PROVIDE UNIT WITH FACTORY INSTALLED AND UN-POWERED 115V, 15 AMP CONVENIENCE OUTLET. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY WORK AND PURCHASING.
11. PROVIDE SINGLE POINT POWER CONNECTION.
12. PROVIDE WITH FACTORY MOUNTED HUMIDITY CONTROL SYSTEM; MODULATING HOT GAS RE-HEAT (MHGRH)
13. PROVIDE SS SLOPED INSULATED CONDENSATE DRAIN PAN.
14. PROVIDE INTERNAL VIBRATION ISOLATION FOR FAN CARRIAGE, COMPRESSOR AND CONDENSER FANS.
15. PROVIDE CONDENSER COIL GUARD.
16. PROVIDE COMPRESSOR SOUND BLANKETS AND BASE INSULATION.
17. PROVIDE BLOWER PROVING SWITCH, DIRTY FILTER SWITCH AND DRAIN PAN OVERFLOW SWITCH.
18. PROVIDE UNIT WITH WATER FLOW SWITCH & HEAD PRESSURE CONTROL VALVE
19. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED MICROPROCESSOR CONTROL "VCCX2" (MAKE-UP AIR CONTROL WITH SPACE AIR TEMPERATURE & HUMIDITY CONTROL) WITH REMOTE HUMAN INTERFACE AND BACNET COMMUNICATION CAPABILITY.
20. PROVIDE FACTORY START-UP.
21. PROVIDE EVAPORATOR & HGRH COILS WITH CORROSION PROTECTION COATED THAT EXCEEDS 10,000 HOUR SALT SPRAY TEST PER ASTM B 117-95 PROCEDURES BY MANUFACTURER (FULLY DIPPED COIL) OR ALTERNATE CORROSION PROTECTION COATING WITH PRODUCTS BY SURFSIL, LUVATA, THERMOGUARD, OR BLYGOLD.
22. PROVIDE UNIT WITH INTERIOR CORROSION PROTECTION.
23. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN SUPPLY DUCT, COORDINATE WITH F.A. SYSTEM PRIOR TO PURCHASING.
24. CONTRACTOR TO PROVIDE TIE DOWN KIT.
25. CONTRACTOR TO PROVIDE SERVICE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
26. CONTRACTOR SHALL FIELD VERIFY REQUIRED ROOF OPENING PRIOR TO ANY WORK.
27. REFER TO MECHANICAL CONTROL DRAWINGS FOR REQUIRED CONTROL DEVICES AND SEQUENCE OF OPERATION. COORDINATE WITH CONTROL CONTRACTOR PRIOR TO ORDERING.

BASIS OF DESIGN IS "AAON"
ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "TRANE" ANY ALTERNATE MANUFACTURER MUST PROVIDE ALL OF THE STANDARD & OPTIONAL FEATURES LISTED ABOVE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONAL, WEIGHT AND ELECTRICAL CHANGES.

COORDINATION NOTE
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER

SUPPLY AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	MODULE SIZE	"A" DIMENSION	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS/ TDCA-AA	24X24	18X18	SEE SCH.	ALUM.	LAY-IN	OFF WHITE	NOTE #1	4-WAY	MAX. 25	SEE SCH.	1-6
B	TITUS/ TDCA-AA	12x12	9x9	SEE SCH.	ALUM.	BORDER TYPE 1	OFF WHITE	NOTE #1	4-WAY	MAX. 25	SEE SCH.	1-6
C	TITUS/ 300FL	-	-	SEE PLAN	ALUM.	SIDE WALL	OFF WHITE	OBD	-	MAX. 25	SEE PLAN	4,6
D	TITUS/ R-300F	-	-	12"□	ALUM.	SIDE WALL	OFF WHITE	OBD	-	MAX. 25	SEE PLAN	4,6
E	TITUS/ PAS-AA	24X24	-	SEE SCH.	ALUM.	LAY-IN	OFF WHITE	NOTE #1	4-WAY	MAX. 25	SEE SCH.	1-6

(*) EQUIVALENT MANUFACTURER: METALAIRE, CARNES, T & B, NAILOR

NOTES:

1. PROVIDE SIMILAR COLLAR WITH VOLUME BUTTERFLY DAMPERS W/ 2" HANDLE STANDOFF AT TRUNK TO FLEX DUCT CONNECTION. PROVIDE REMOTE CABLE OPERATED VOLUME DAMPERS "YOUNG REGULATOR" OR EQUAL FOR ALL FLEX TAKE-OFF LOCATED IN INACCESSIBLE AND HARD CEILING AREAS.
2. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLANS.
3. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
5. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
6. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE.

ROUND NECK/FLEX SCHEDULE	
6□"	50-125 CFM
8□"	130-200 CFM
10□"	205-325 CFM
12□"	330-450 CFM
14□"	455-600 CFM
16□"	605-800 CFM

RETURN AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	NC	CFM RANGE	NOTES
AA	TITUS/ 350FL	24X24	SEE SCH.	ALUM.	LAY-IN	OFF WHITE	NOTE #4	MAX. 25	SEE SCH.	1-4
BB	TITUS/ 350FL	12X12	SEE SCH.	ALUM.	BORDER TYPE 1	OFF WHITE	NOTE #4	MAX. 25	SEE SCH.	1-4
CC	TITUS/ 350FL	-	SEE PLAN	ALUM.	SIDE WALL	OFF WHITE	OBD	MAX. 25	SEE PLAN	1-4
EE	TITUS/ PAR-AA	24X24	SEE SCH.	ALUM.	LAY-IN	OFF WHITE	NOTE #4	MAX. 25	SEE SCH.	1-4
TT	TITUS/ 350FL	SEE PLAN	SEE PLAN	ALUM.	SEE PLAN	OFF WHITE	-	MAX. 25	SEE PLAN	1-4

(*) EQUIVALENT MANUFACTURER: METALAIRE, CARNES, T & B, NAILOR

TO BE EDIT
TO BE EDIT

WEST - GENERAL FAN SCHEDULE

TAG	# OF UNITS	SERVICE AREA	MANUF.(*)/ MODEL	TYPE	CONFIG.	DUTY	FAN DATA CFM	FAN DATA ESP/ TSP ("WG)	FAN DATA SONES (dBA)	MOTOR DATA BHP/HP	MOTOR DATA RPM	MOTOR DATA DRIVE	MOTOR DATA ENCLOSURE	MOTOR DATA VOLTAGE	GENERAL DATA WEIGHT (LBS)	GENERAL DATA DIMENSIONS L"xW"xH"	GENERAL DATA DAMPER SIZE (L"xW")	GENERAL DATA CONTROL/ MONITOR	NOTES
1ST FLOOR																			
EF-W101	-	*	GREENHECK/ *	CENTRIFUGAL	*	EXHAUST	-	*	*	*	*	*	*	*	*	*	*	*	*
EF-W102																			
2ND FLOOR																			
3RD FLOOR																			
4TH FLOOR																			
5TH FLOOR																			

NOTES:

1. FAN SHALL BE "AMCA" CERTIFIED (SOUND & AIR PERFORMANCE).
2. PROVIDE UL/cUL-705 LISTED POWER VENTILATOR.
3. PROVIDE UL/cUL-507 LISTED ELECTRIC FAN.
4. PROVIDE MOTOR WITH THERMAL OVERLOAD PROTECTION.
5. PROVIDE WITH PLUG TYPE DISCONNECT.
6. PROVIDE WITH FACTORY MOUNTED OR SHIP W/ UNIT (FILED MOUNTED) DISCONNECT SWITCH.
7. PROVIDE VARI-GREEN EC MOTOR W/ 0-10VCD INPUT AND DIAL FOR BALANCING).
8. PROVIDE VARI-GREEN EC MOTOR W/ DIAL ON FAN, 2-SPEED WITH TIME DELAY
9. PROVIDE WITH SOLID STATE SPEED CONTROL (FOR BALANCING).
10. PROVIDE WITH BACK DRAFT DAMPER (GRAVITY OPERATION).
11. PROVIDE ALUMINUM GRILLE.
12. PROVIDE ISOLATORS & BRACKETS, NEOPRENE HANGING.
13. PROVIDE INLET/OUTLET COMPANION FLANGE
14. PROVIDE MOTOR COVER.
15. PROVIDE ROOF CURB & CURB SEAL.
16. PROVIDE FAN HIGH WIND RATED (+/-150 PSF RATING)
17. PROVIDE FLORIDA PRODUCT APPROVAL #FL13225.1 & MIAMI-DADE NOA #19-0717.02.
18. PROVIDE TIE DOWN POINTS-SET OF 4.
19. PROVIDE FAN AND ATTACHED ACC. COATED WITH "PERMATECTOR" OR EQUAL.
20. PROVIDE ONE YEAR WARRANTY.
21. PROVIDE FAN WITH STEP-DOWN TRANSFORMER 277V TO 120V.

(*) APPROVED EQUAL MANUFACTURER: COOK, PENN, ACME

GENERAL FAN NOTES:

A. MOTOR STARTERS, FUSED DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT POWER WIRING PROVIDED BY ELECTRICAL CONTRACTOR. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE PRIOR TO ANY WORK AND PURCHASING.
B. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.
C. FIELD ADJUST OPENINGS WITH STRUCTURE.
D. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.
E. DISCHARGE FINISH WITH ARCHITECT/OWNER.
F. AS APPLICABLE, ALL FANS MANUFACTURE AND INSTALLATION SHALL COMPLY WITH FMC 301.12 FOR WIND RESISTANCE.

WEST BUILDING - SMOKE CONTROL / PURGE FAN SCHEDULE

TAG	SERVICE AREA	LOCATION	MANUF.(*)/ MODEL	TYPE	CONFIGURATION	DUTY	FAN DATA AIR FLOW (CFM)/ MODE SMOKE CONTROL	FAN DATA AIR FLOW (CFM)/ MODE SMOKE PURGE	FAN DATA ESP/TSP ("WG)	FAN DATA SOUND POWER (dBA)	MOTOR DATA BHP/HP	MOTOR DATA RPM	MOTOR DATA DRIVE	MOTOR DATA ENCLOSURE	MOTOR DATA VOLTAGE	GENERAL DATA FAN EFF. INDEX (FEI)	GENERAL DATA WEIGHT (LBS)	GENERAL DATA DIMENSIONS L"xW"xH"	GENERAL DATA DAMPER (L"xW")	GENERAL DATA VFD	GENERAL DATA CONTROL	NOTES
SPF-W1	STAIRWELL "A"/ PRESSURIZATION	*	GREENHECK/ QEID-22-100	MIXED FLOW	HORIZ./ CEILING HUNG	SUPPLY	6,500	-	1.5/1.5	70	2.27/ 3	1170	DIRECT	TEFC	460/3/60	1.39	590	30"□x38.7"L	SEE PLAN	YES	FA PANEL	*
SPF-W2	STAIRWELL "B"/ PRESSURIZATION	ROOF	GREENHECK/ QEID-24-100	MIXED FLOW	HORIZ./ FLOOR MOUNTED	SUPPLY	7,500	-	1.5/1.6	70	2.76/ 5	1170	DIRECT	TEFC	460/3/60	1.37	730	34"□x44.7"L	SEE PLAN	YES	FA PANEL	*
SPF-W3	STAIRWELL "C"/ PRESSURIZATION	ROOF	GREENHECK/ QEID-22-100	MIXED FLOW	HORIZ./ FLOOR MOUNTED	SUPPLY	6,500	-	1.5/1.6	70	2.42/ 3	1170	DIRECT	TEFC	460/3/60	1.38	590	30"□x38.7"L	SEE PLAN	YES	FA PANEL	*
EPF-W4	ELEVATOR SHAFT A&B/ PRESSURIZATION	ROOF	GREENHECK/ QEID-27-100	MIXED FLOW	HORIZ./ FLOOR MOUNTED	SUPPLY	14,000	-	1.5/1.7	78	6.2/ 7.5	1170	DIRECT	TEFC	460/3/60	1.27	920	37.4"□x48.2"L	SEE PLAN	YES	FA PANEL	*
EPF-W5	ELEVATOR SHAFT A&B/ PRESSURIZATION	ROOF	GREENHECK/ QEID-24-100	MIXED FLOW	HORIZ./ FLOOR MOUNTED	SUPPLY	9,000	-	1.5/1.64	72	3.47/ 5	1170	DIRECT	TEFC	460/3/60	1.36	730	34"□x44.7"L	SEE PLAN	YES	FA PANEL	*
SEF-W1	SMOKE-PURGE/ RISER 1	ROOF				EXHAUST	-	27,200														
SEF-W2	SMOKE-PURGE/ RISER 2	ROOF				EXHAUST	-	29,400														
SEF-W3	6TH FLOOR RESTAURANT/ SMOKE PURGE	ROOF	GREENHECK/ CUBE-300	CENTRIFUGAL	UP-BLAST ROOF	EXHAUST	-	6,600	1.3/1.33	67	2.49/ 3	1725	BELT	TEFC	460/3/60	-	340	50"□x36"H	30x30	NO	FA PANEL	*

NOTES:

1. FAN SHALL BE "AMCA" CERTIFIED (SOUND & AIR PERFORMANCE).
2. PROVIDE UL/cUL-705 POWER VENTILATOR.
3. PROVIDE UL LISTED- POWER VENTS FOR SMOKE CONTROL SYSTEMS (300F-5HRS.)
4. PROVIDE NEMA PREMIUM EFFICIENT MOTOR.
5. PROVIDE MOTOR W/ THERMAL OVERLOADS, CLASS F INSULATION.
6. PROVIDE MOTOR VFD RATED WITH SHAFT GROUNDING PROTECTION.
7. PROVIDE VFD WITH DISCONNECT SWITCH, STARTER AND BY-PASS.
8. PROVIDE WITH FACTORY MOUNTED OR SHIP W/ UNIT (FILED MOUNTED) DISCONNECT SWITCH FOR SERVICE. ANY LOCAL DISCONNECT SWITCH SERVING SMOKE CONTROL, STAIR PRESSURIZATION OR ELEVATOR PRESSURIZATION FANS SHALL BE EQUIPPED WITH A SET OF AUXILIARY CONTACTS FOR THE PURPOSE OF SUPERVISION BY THE SMOKE CONTROL SYSTEM
9. PROVIDE WITH BOLTED INSPECTION DOOR.
10. PROVIDE WITH UNIVERSAL MOUNTED SUPPORT.
11. PROVIDE WITH DIRECT MOUNT SPRING ISOLATORS.
12. PROVIDE WITH HANGING SPRING ISOLATORS.
13. PROVIDE ISOLATORS & BRACKETS, NEOPRENE HANGING.
14. PROVIDE WITH INLET BELL AND BELL GUARD COATING TO MATCH FAN.
15. PROVIDE WITH OUTLET BELL AND BELL GUARD COATING TO MATCH FAN.
16. PROVIDE INLET & OUTLET PUNCHED COMPANION FLANGES.
17. PROVIDE ROOF CURB & CURB SEAL.
18. PROVIDE FAN HIGH WIND RATED (+/-150 PSF RATING)
19. PROVIDE FLORIDA PRODUCT APPROVAL #FL13225.1 & MIAMI-DADE NOA #21-0318.05.
20. PROVIDE TIE DOWN POINTS-SET OF 4.
21. PROVIDE CORROSION PROTECTION COATING "HI-PRO POLYESTER" OR EQUAL.
22. PROVIDE TIME DELAY RELAY TO ALLOW DAMPER TO OPERATE. COORDINATE W/ ELECTRICAL AND FIRE ALARM CONTRACTORS PRIOR TO BIDDING OR ORDERING FOR ADDITIONAL REQUIREMENTS.
23. PROVIDE CURRENT SENSOR. COORDINATE W/ ELECTRICAL AND FIRE ALARM CONTRACTORS PRIOR TO BIDDING OR ORDERING FOR ADDITIONAL REQUIREMENTS.
24. PROVIDE 1 YR WARRANTY.
25. PROVIDE EMERGENCY POWER, AUTOMATIC CONTROL FROM THE FIRE ALARM SYSTEM AND MANUAL CONTROL FROM THE FIRE FIGHTER SMOKE CONTROL PANEL.
26. PROVIDE DUCT MOUNTED SMOKE DETECTOR. PROVIDE MANUAL OVERRIDE AT THE FIREFIGHTER SMOKE CONTROL PANEL CAPABLE OF OVERRIDING THE DUCT SMOKE DETECTOR.
27. REFER TO SMOKE CONTROL PLANS AND RATIONAL ANALYSIS REPORT FOR ADDITIONAL REQUIREMENTS.
28. MECHANICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH ELECTRICAL, CONTROL AND FIRE ALARM CONTRACTORS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
29. PROVIDE VARI-GREEN EC MOTOR W/ 0-10VCD INPUT AND DIAL FOR BALANCING.

GENERAL FAN NOTES:

A. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER WIRING BY ELEC. CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.
B. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32.
C. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.
D. DISCHARGE FINISH WITH ARCHITECT/OWNER.
E. AS APPLICABLE, ALL FANS MANUFACTURE AND INSTALLATION SHALL COMPLY WITH FMC 301.12 FOR WIND RESISTANCE

30% PROGRESS SET
NOT FOR CONSTRUCTION
DATED 08/23/22

CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com
Certification of Authorization #8189

BASIS OF DESIGN IS GREENHECK/ ACCEPTABLE ALTERNATE MANUFACTURERS ARE: "COOK, PENN" & "ACME." ANY ALTERNATES MUST BE APPROVED PRIOR TO BID 08/23/22
ANY AND ALL DESIGN SPECIFICATIONS.

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△ DESCRIPTION DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BLDG. MECHANICAL SHEDULE

PROJECT NUMBER: 010326.000
DATE: 05/16/22
SCALE: 12" = 1'-0"

SHEET
M6-004

8/29/2022 8:27:02 AM

TYPICAL PLUMBING FIXTURE CONNECTION SCHEDULE

TYPE	SOIL / WASTE	VENT	TRAP	CW	HW	REMARKS
3" HUB DRAIN	3"	2"	3"	-	-	PROVIDE ½" CW TRAP PRIMER CONNECTION.
4" HUB DRAIN	4"	2"	4"	-	-	PROVIDE ½" CW TRAP PRIMER CONNECTION.
COFFEE MAKER/WATER FILTER	-	-	-	½"	-	PROVIDE WITH VACUUM BREAKER.
REFRIGERATOR	-	-	-	½"	-	PROVIDE WITH VACUUM BREAKER.
SINK FAUCET	2"	2"	½"	½	½	2.2 GPM AT 60 PSI MAXIMUM.
MOP SINK	3"	2"	13"	½"	½"	PROVIDE HOSE THREAD FAUCET WITH INTEGRAL VACUUM BREAKER.
LAVATORY (PRIVATE)	2"	2"	1⅛"	½"	½"	2.2 GPM @ 60PSI
LAVATORY (PUBLIC)	2"	2"	1⅛"	½"	½"	0.5 GPM AT 60 PSI MAXIMUM. (0.25 GALLON METERING CYCLE)
SHOWER HEAD	-	-	-	½"	½"	2.5 GPM @ 80PSI
WATER CLOSET (FLUSH VALVE)	3"	2"	INTEGRAL	1"	-	1.6 GALLONS PER FLUSHING CYCLE
WATER CLOSET (FLUSH TANK)	3"	2"	INTEGRAL	½"	-	1.6 GALLONS PER FLUSHING CYCLE
URINAL	2"	2"	INTEGRAL	¾"	-	1.0 GALLONS PER FLUSHING CYCLE

NOTE: PLUMBING FIXTURE CONNECTION SCHEDULE IS SHOWN FOR CONVENIENCE ONLY. PLUMBING CONTRACTOR TO CONFIRM FINAL PLUMBING FIXTURE CONNECTION SIZES WITH PLUMBING FIXTURE MANUFACTURER'S REQUIREMENTS. ALL FIXTURES SHALL COMPLY WITH FBC TABLE 604.4

PLUMBING NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
2. THE PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS.
3. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7. CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL, FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS, THAT ARE INCLUDED IN THE CONTRACT.
8. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
9. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
10. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
11. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PEX TYPE 'A' PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
12. SOIL, WASTE, VENT, AND RAINWATER (DWV) PIPING & FITTINGS SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC SHALL NOT BE USED IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY; FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CISPI-301 MARK. ALL DWV PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA. ALL HORIZONTAL SANITARY PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES COLD DRAINAGE FROM REFRIGERATION EQUIPMENT SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
13. NATURAL & PROPANE FUEL GAS PIPING SHALL BE THE FOLLOWING: UNDERGROUND - PE PIPE COMPLYING WITH ASTM D2683 OR ASTM D3261 AND ASTM D2513, SDR 11 TRANSITION FITTINGS. ABOVEGROUND - SCHEDULE 40 BLACK STEEL COMPLYING WITH ASTM A53 AND THREADED, WELDED, OR FLANGED FITTINGS. CORRUGATED STAINLESS STEEL TUBING COMPLYING WITH ANSI/IAS LC1 SHALL BE ALLOWED ONLY WITHIN INTERIOR ACCESSIBLE SPACES.
14. COMPRESSED AIR PIPING SHALL BE ASTM B241 EXTRUDED ALUMINUM ALLOY COMPLIANT WITH ASME B31.1 OR GALVANIZED BLACK STEEL IN ACCORDANCE WITH DIN EN 10255. ALUMINUM PIPING AND MECHANICAL GROOVED-JOINT FITTINGS SHALL BE AIRNET, TRANSAIR, OR APPROVED EQUAL. STEEL PIPING AND MECHANICAL GROOVED-JOINT FITTINGS SHALL BE VIEGA MEGAPRESS OR APPROVED EQUAL.
15. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
16. PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
17. PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
18. ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR NON-CONDUCTIVE MATERIAL.
19. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
20. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
21. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
22. PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
23. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
24. NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
25. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR.
26. CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 7th EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, CPVC PIPING WITH INSULATION IS ACCEPTABLE IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 7th EDITION (2020), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUNNING IN AIR CONDITIONED PLENUM ABOVE FINISHED FLOOR SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
27. HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) PLUMBING, SECTION 607.5 & FLORIDA BUILDING CODE 7th EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.10. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 7th EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.10.
28. AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

PLUMBING SHEET INDEX

SLOPE OF HORIZ. DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2017
ALL PIPING 3" AND LARGER IS TO SLOPE 1/8" PER/FT UNLESS NOTED.

SHOCK ARRESTOR SCHEDULE

P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIOUX CHIEF 652-A	1-11	1/2"
B	SIOUX CHIEF 653-B	12-32	3/4"
C	SIOUX CHIEF 654-C	33-60	1"

SIOUX CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

CONDENSATE DRAIN PIPE SIZING

HVAC EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
UP TO 20 TONS OF REFRIGERATION	1"
OVER 21 TONS TO 40 TONS OF REFRIGERATION	1-1/4"
OVER 41 TONS TO 60 TONS OF REFRIGERATION	1-1/2"
OVER 61 TONS TO 100 TONS OF REFRIGERATION	2"
OVER 101 TONS TO 250 TONS OF REFRIGERATION	3"
OVER 251 TONS & LARGER OF REFRIGERATION	4"

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/29/2022

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ISSUED FOR CONSTRUCTION	-

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/29/2022

Certification of Authorization #8189

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

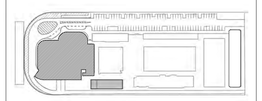
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
PLUMBING NOTES

PROJECT NUMBER: 010326.000
DATE: 06/03/2022
SCALE: 12" = 1'-0"

SHEET
P0-001

CAM 23-0723
Exhibit 1M
Page 154 of 169

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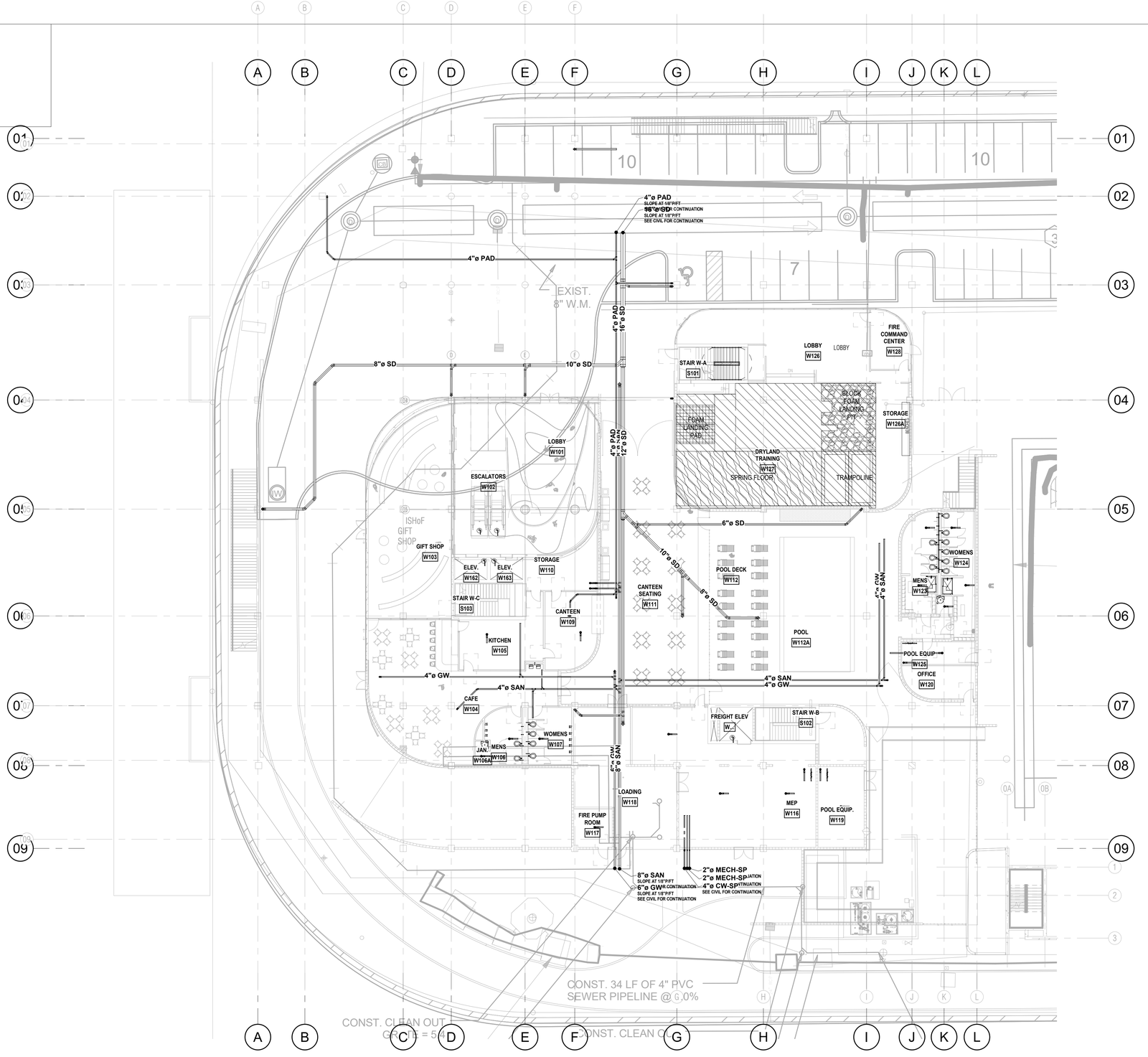

LEVEL 1 (0'-0") SITE PLUMBING PLAN

1/16" = 1'-0"

NORTH

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30% PROGRESS SET

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DATED: 08/29/2022

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/29/2022

Certification of Authorization #8189

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

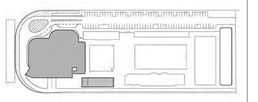
CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE

PLUMBING SITE PLAN

PROJECT NUMBER: 010326.000
DATE: 08/29/22
SCALE: 1/16" = 1'-0"

SHEET

P2-100

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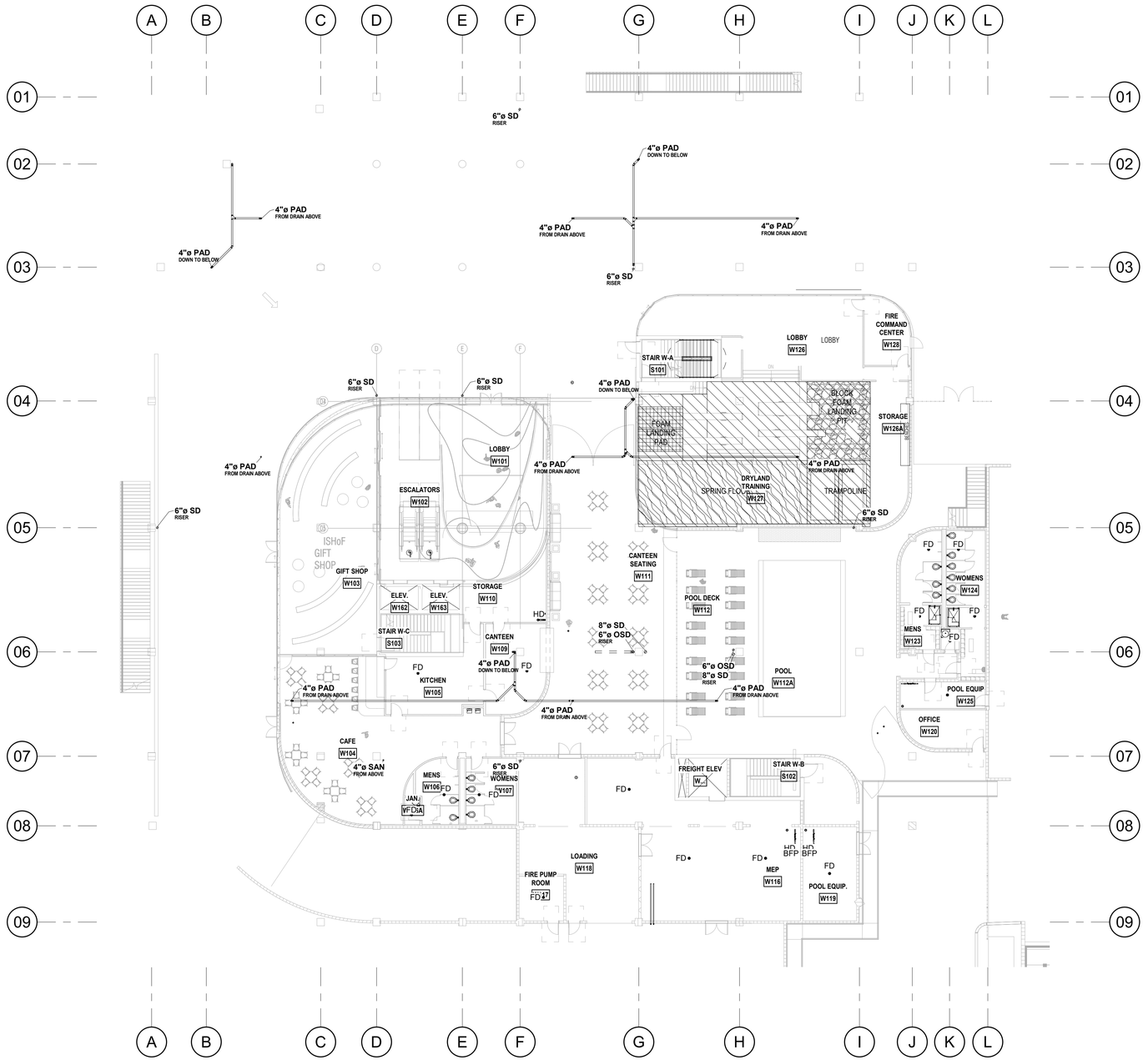

LEVEL 1 (0'-0") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES	
KEY	NOTE

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

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DATED: 08/29/2022

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PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/29/2022

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
WEST BUILDING LEVEL 01 PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-101

CAM 23-0723
Exhibit 1M
Page 156 of 169

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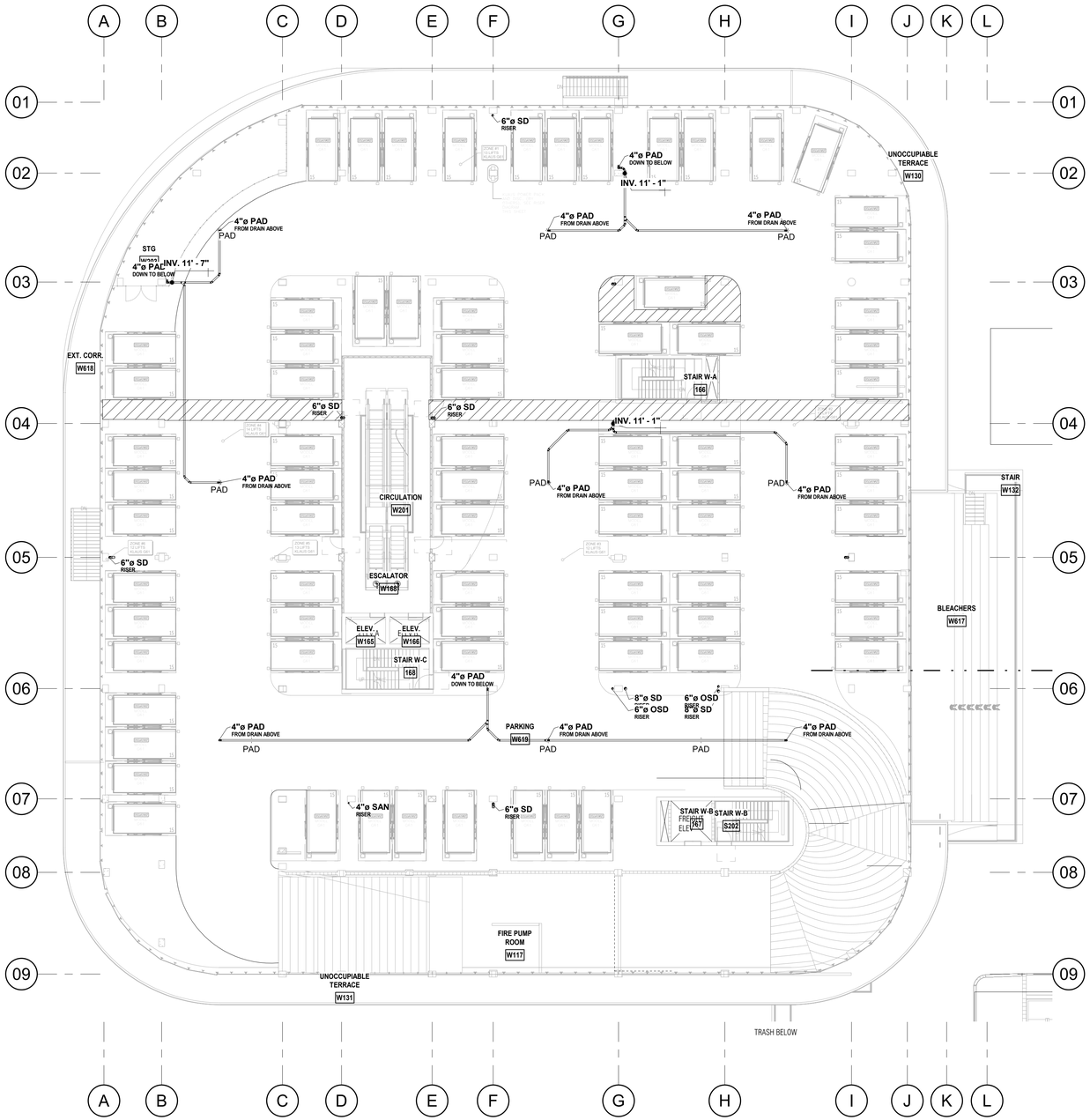

LEVEL 2 (20'-0") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES	
KEY	NOTE

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

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DATED: 08/29/2022

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/29/2022

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

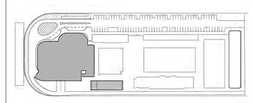
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
WEST BUILDING LEVEL 02 PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-102

CAM 23-0723
Exhibit 1M
Page 157 of 169

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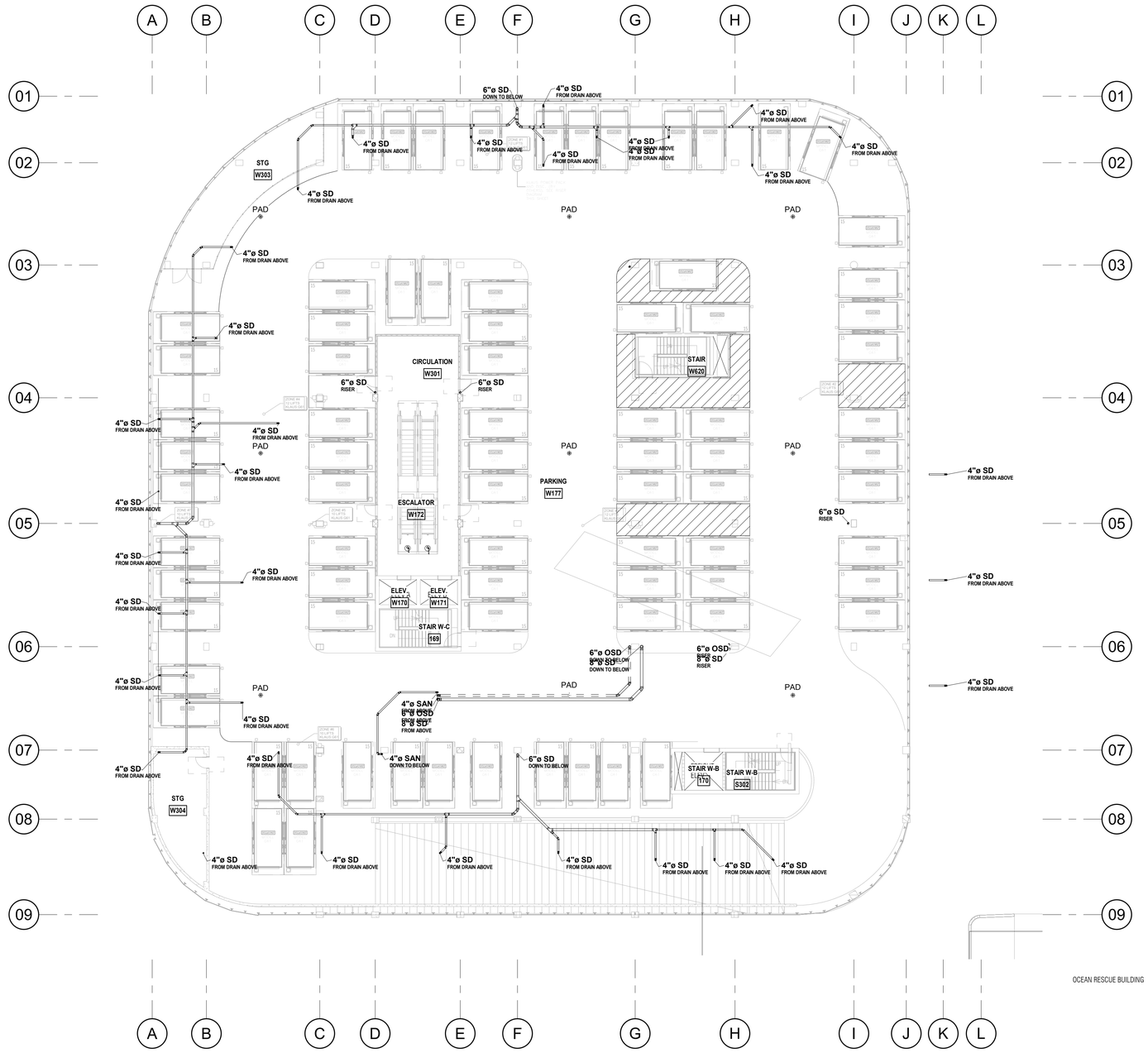

LEVEL 3 (34'-0") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES	
KEY	NOTE

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DATED: 08/29/2022

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/29/2022

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

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PROJECT NORTH:

DRAWING TITLE
WEST BUILDING LEVEL 03 PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-103

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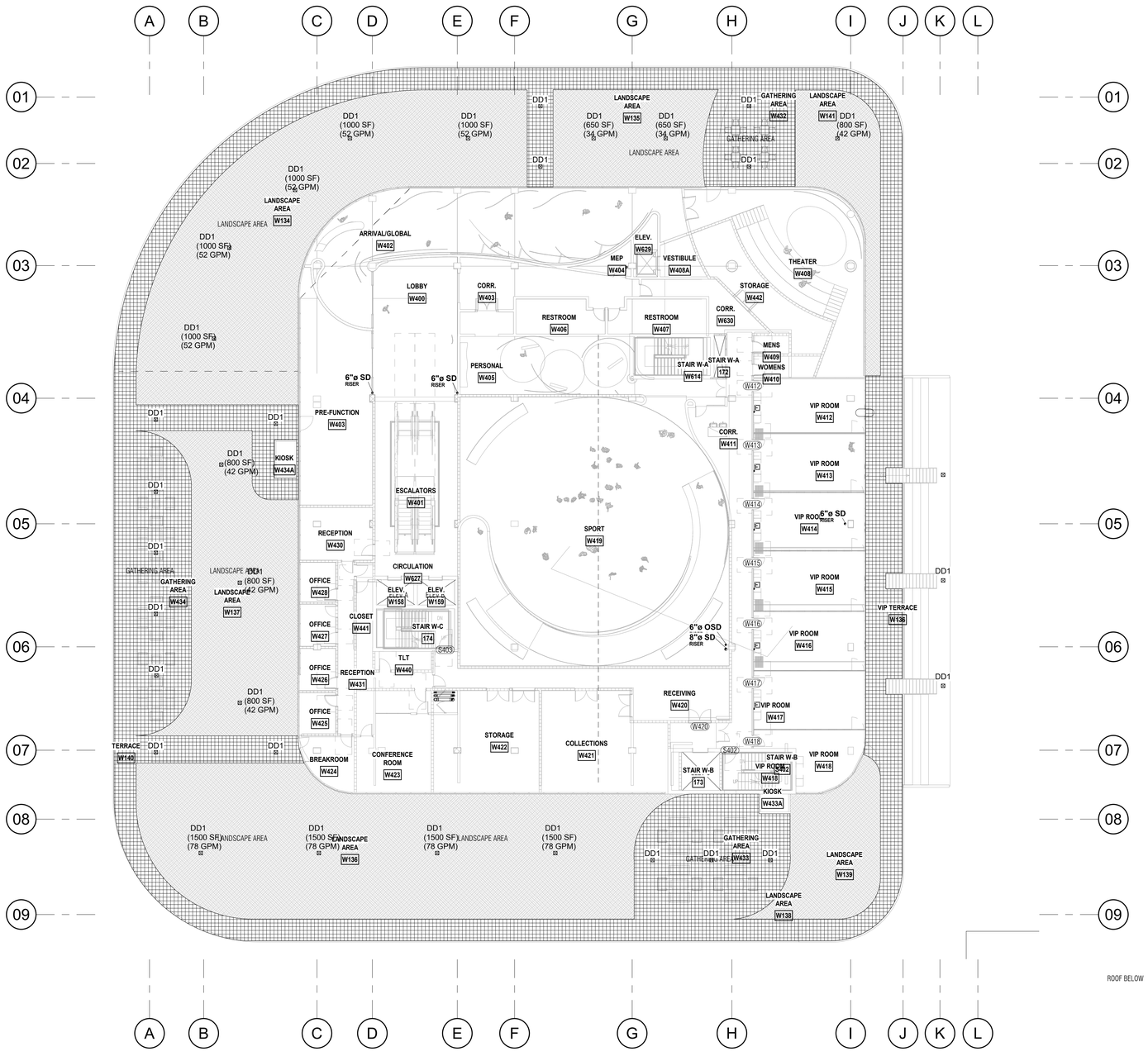

LEVEL 4(48'-0") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES	
KEY	NOTE

ISSUED FOR PERMIT	-
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DATED: 08/29/2022

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PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BUILDING LEVEL 04 PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-104

CAM 23-0723
Exhibit 1M
Page 159 of 169

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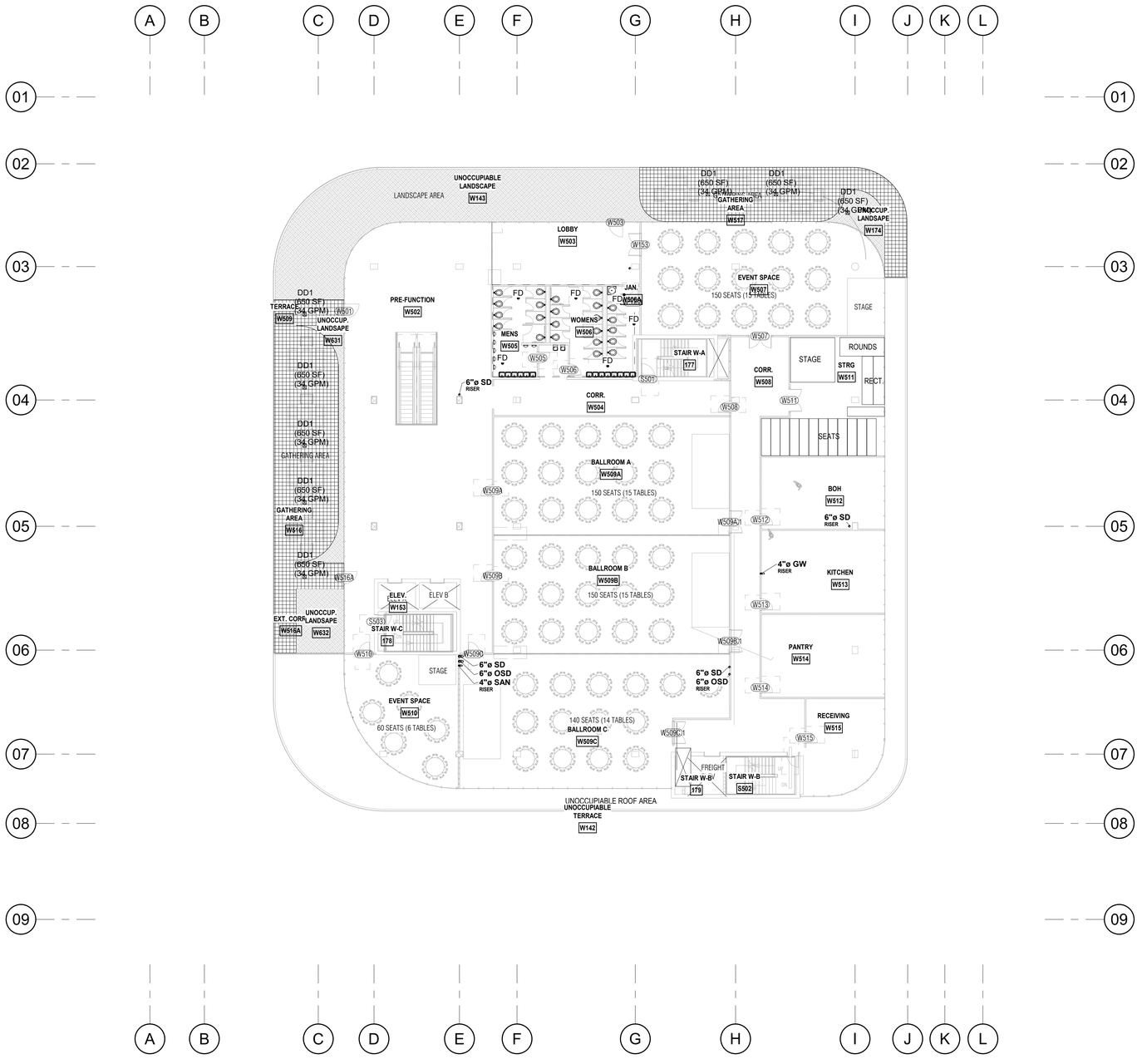

LEVEL 5 (73'-0") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES

KEY	NOTE

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

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DATED: 08/29/2022

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PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△ DESCRIPTION DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

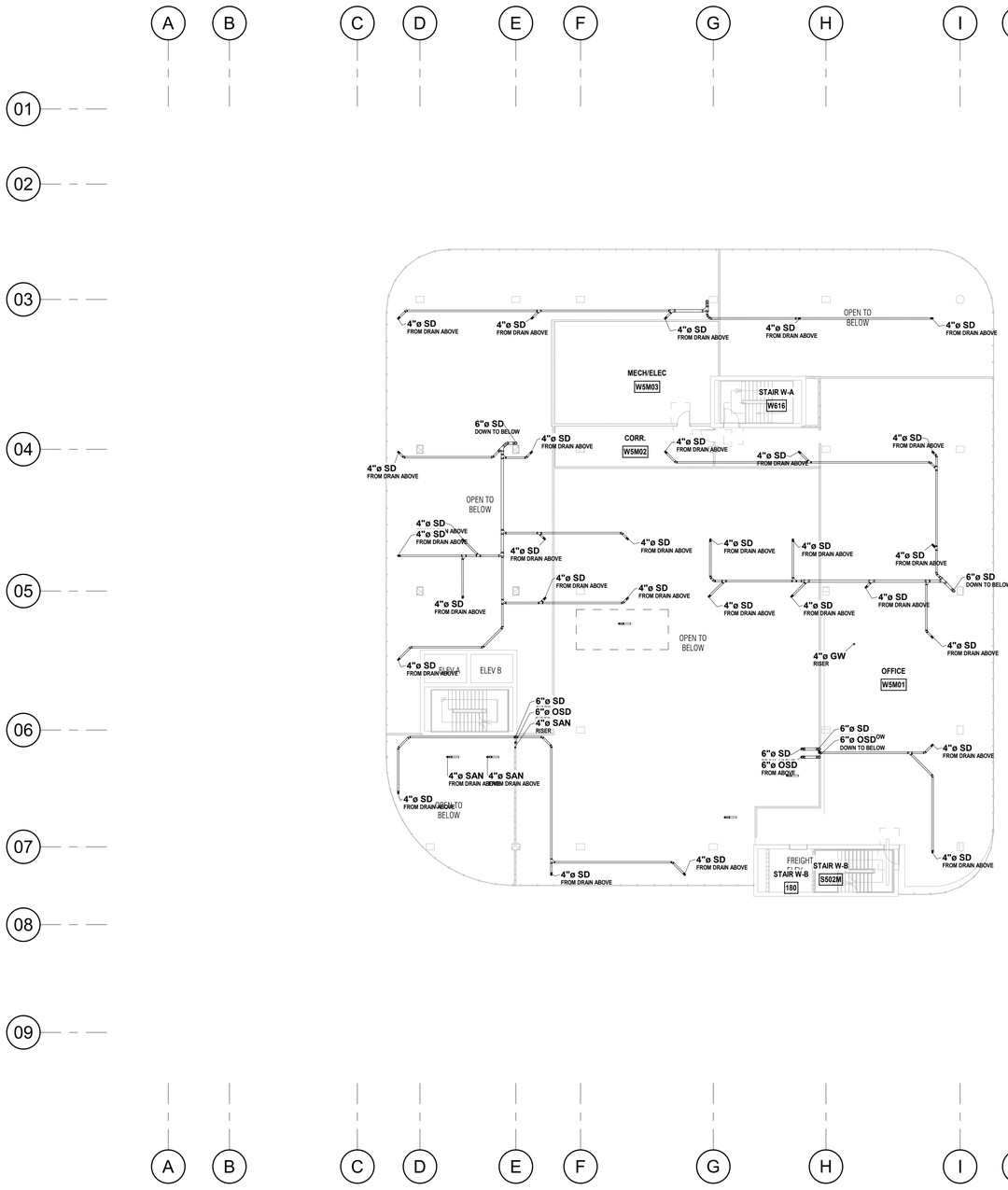
DRAWING TITLE
WEST BUILDING LEVEL 05 PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-105

CAM 23-0723
Exhibit 1M

8/29/2022 8:27:46 AM



LEVEL 05 MEZZ (85'-6") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES

KEY	NOTE

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/29/2022

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/29/2022

Certification of Authorization #8189

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

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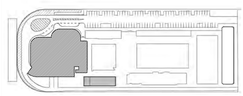
PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



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PROJECT NORTH:

DRAWING TITLE
WEST BUILDING LEVEL 05 MEZZ
PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-105.1

CAM 23-0723
Exhibit 1M
Page 161 of 169

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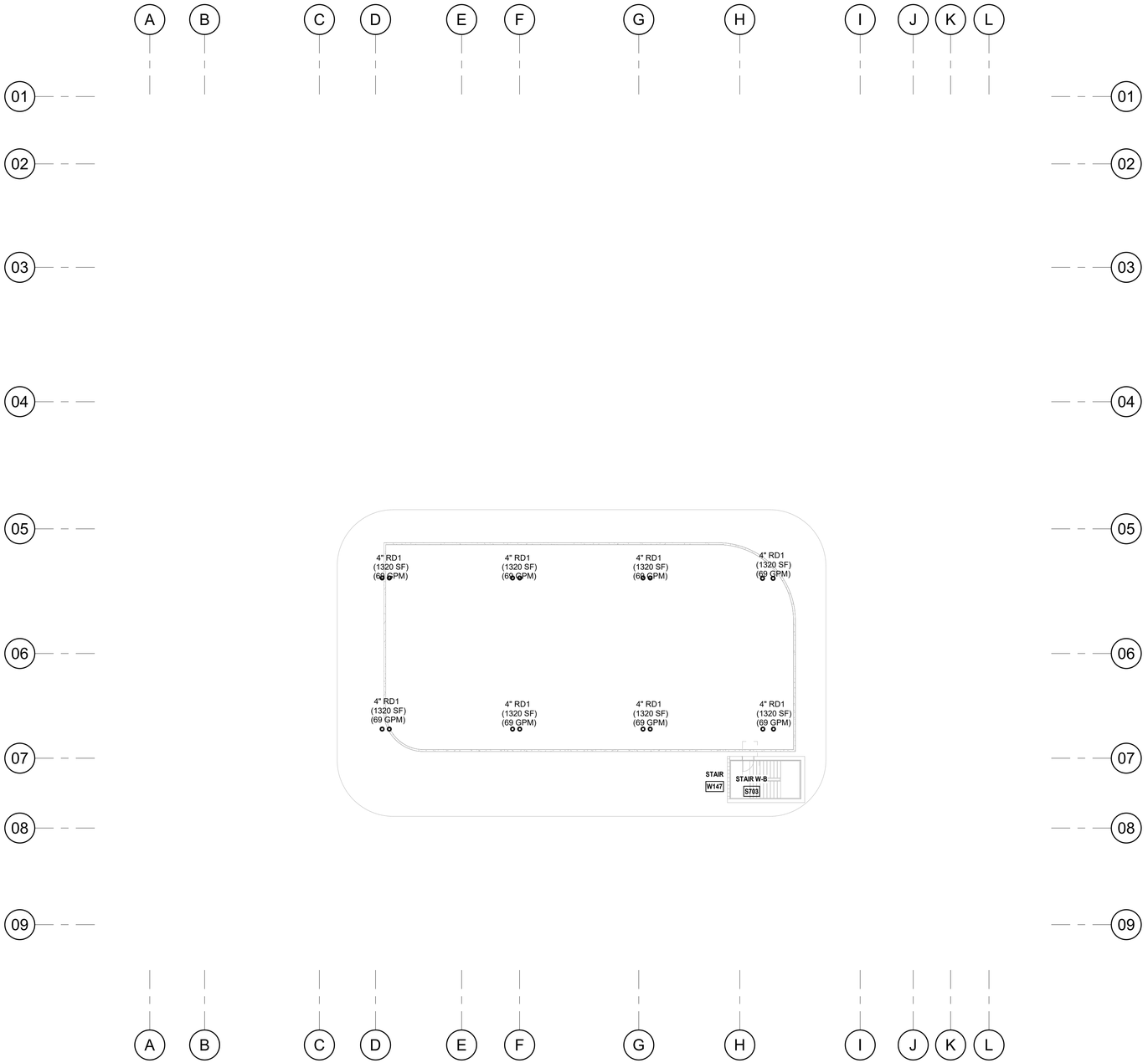

ROOF (116'0") DRAINAGE PLAN

1/16" = 1'-0"

NORTH

PLUMBING KEYNOTES	
KEY	NOTE

30% PROGRESS SET

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TEL:954.949.2200

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2312 S ANDREWS AVE
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501 Seabreeze Blvd., Fort Lauderdale, FL 33316

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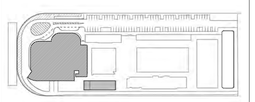

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BUILDING ROOF LEVEL
PLUMBING PLANS

PROJECT NUMBER: 010326.000
DATE: 05/24/22
SCALE: 1/16" = 1'-0"

SHEET
P2-106

CAM 23-0723
Exhibit 1M

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ELECTRICAL SYMBOLS

	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	TELEPHONE/DATA OUTLET, RECESSED FLOOR MOUNTED, WITH 3/4" CONDUIT RUN TO THE NEAREST STUD WALL AND STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
TV	TELEVISION OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	QUADRUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
GFI	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) MOUNTED ABOVE COUNTER SEE ARCHITECTUAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING), RECESSED FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING), CEILING MOUNTED.
	SPECIAL-PURPOSE RECEPTACLE
	JUNCTION BOX
S_M	MOTOR RATED SWITCH
S	SINGLE POLE, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
S_3	3-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
S_4	4-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
S_{OS}	LINE VOLTAGE DUAL TECHNOLOGY WALL SWITCH/OCCUPANCY SENSOR WITH "MANUAL ON" OPTION, WATTSTOPPER MODEL# "DSW-100" OR AN APPROVED EQUAL. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED. 20 MINUTE MAXIMUM TIME DELAY.
S^{D}_{OS}	LINE VOLTAGE DUAL TECHNOLOGY WALL SWITCH/OCCUPANCY SENSOR WITH DIMMING, WATTSTOPPER MODEL# "DW-311" OR AN APPROVED EQUAL. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED. 20 MINUTE MAXIMUM TIME DELAY.
S^{XX}_{RC}	ZONE DESIGNATION (IF APPLICABLE) LOW VOLTAGE ROOM CONTROLLER DIGITAL CONTROL SWITCH WITH "MANUAL ON" OPTION, WATTSTOPPER MODEL "LMSW-10(#)-XX" OR AN APPROVED EQUAL. # = NUMBER OF BUTTONS, XX = COLOR.
S_D	LOW VOLTAGE CONTROL RELAY PANEL DIGITAL DIMMER SWITCH, ILC MODEL "LMDM-101" OR AN APPROVED EQUAL.
S^{RC}_{OS}	DUAL TECHNOLOGY DIGITAL WALL SWITCH/OCCUPANCY SENSOR WITH "MANUAL ON" OPTION, WATT STOPPER MODEL# "LMDW-101" OR AN APPROVED EQUAL. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED. 20 MINUTE MAXIMUM TIME DELAY.
S_{OV}	LOW VOLTAGE CONTROL RELAY PANEL DIGITAL CONTROL SWITCH, ILC MODEL "LS-G3-XX-#" OR AN APPROVED EQUAL. FOUR HOUR MAXIMUM TIME DELAY. # = NUMBER OF BUTTONS, XX = COLOR.
S^{D}_{OV}	LOW VOLTAGE CONTROL RELAY PANEL DIGITAL DIMMER SWITCH, ILC MODEL "LS-G3-XX-#-MZD" OR AN APPROVED EQUAL. FOUR HOUR MAXIMUM TIME DELAY. # = NUMBER OF BUTTONS, XX = COLOR.
OS	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER MODEL# "LMDC-100" OR AN APPROVED EQUAL. MOUNT IN CEILING. 20 MINUTE MAXIMUM TIME DELAY.
RC1	ROOM CONTROLLER WITH (1) ON/OFF CONTROL RELAY, WATTSTOPPER MODEL# "LMRC-101", OR AN APPROVED EQUAL. MOUNT ABOVE CEILING.
RC2	ROOM CONTROLLER WITH (2) ON/OFF CONTROL RELAYS, WATTSTOPPER MODEL# "LMRC-102", OR AN APPROVED EQUAL. MOUNT ABOVE CEILING.
RD1	ROOM CONTROLLER WITH (1) CONTROL RELAY & 0-10V DIMMING CAPABILITY, WATTSTOPPER MODEL# "LMRC-111", OR AN APPROVED EQUAL. MOUNT ABOVE CEILING.
RD2	ROOM CONTROLLER WITH (2) CONTROL RELAYS & 0-10V DIMMING CAPABILITY, WATTSTOPPER MODEL# "LMRC-112", OR AN APPROVED EQUAL. MOUNT ABOVE CEILING.
EMR	EMERGENCY RELAY DEVICE, WATTSTOPPER "ELCU-200" OR AN APPROVED EQUAL. MOUNT ABOVE CEILING
DIM	REMOTE 4-CHANNEL 0-10V DIMMING CARD, ILC MODEL "LSDM-R" FOR CONNECTION TO LIGHTING CONTROL PANEL VIA CAT-5 CABLE.
S	TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT TO EQUIPMENT TO BE CONTROLLED.
	FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)
CB A	FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
CB A	FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MOTOR STARTER A = POLES, B= NEMA SIZE, C= FUSE RATING
	GROUNDING ELECTRODE & CONDUCTOR SYSTEM
	TRANSFORMER
	ELECTRICAL PANEL BOARD
	TELEPHONE WOOD BACKBOARD
WP	WEATHERPROOF

LCP	LIGHTING CONTROL PANEL
RE	RELOCATED EXISTING
E	EXISTING TO REMAIN
A.F.F.	ABOVE FINISH FLOOR

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.

B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.

C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.

1. NATIONAL ELECTRICAL CODE (NFPA-70, 2017 EDITION)
2. CODE FOR SAFETY TO LIFE (NFPA-101, 2018 EDITION)
3. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72, 2016 EDITION)
4. UNDERWRITERS' LABORATORIES (UL)
5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
7. FEDERAL SPECIFICATION (FED. SPEC.)
8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
9. FLORIDA BUILDING CODE. 2020 EDITION (AS AMENDED)
10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
11. CITY OF FORT LAUDERDALE BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE 2020)
12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)

D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.

E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.

G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.

H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

I. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.

J. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.

PART 2 - PRODUCTS

A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING).

B. ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE NOTED.

C. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.

D. RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 PVC.

E. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

F. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.

G. PANELBOARDS:

1. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE.
3. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD" OR "HID" AS REQUIRED.
4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
6. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
7. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS. PROVIDE ELECTRICAL EQUIPMENT WITH FIELD MARKING TO WARN OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AS REQUIRED BY THE NEC ARTICLE 110.16.

H. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK.

I. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE. PROVIDE MAGNETIC STARTERS WITH "H-O-A" SWITCH.

J. ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONS OR AS OTHERWISE NOTED.

K. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED. FACEPLATES SHALL BE SMOOTH, WHITE NYLON.

L. ALL TRANSFORMERS AND MOTORS SHALL COMPLY WITH THE EFFICIENCY STANDARDS AS REQUIRED BY THE FLORIDA BUILDING CODE-ENERGY CONSERVATION.

M. PROVIDE TAMPER RESISTANT RECEPTACLES AS REQUIRED BY NEC ARTICLE 406.12.

PART 3 - EXECUTION

A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:

1. 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
2. 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GRAY. GROUNDING CONDUCTORS SHALL BE GREEN.
3. BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.

B. WIRING METHODS

1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.

D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.

E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.

G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.

H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IECE.

I. SUBSTITUTIONS:

1. IF ANY PROPOSED EQUIPMENT IS OF LARGER SIZE OR THERE ARE ANY CONTINGENT DIFFERENCES WHICH REQUIRE ADDITIONAL CONTROLS, EQUIPMENT OR APPARATUS ALL ASSOCIATED CHANGES TO THE BUILDING SYSTEMS NECESSARY TO ACCOMMODATE THESE CHANGES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. "TO-SCALE" FLOOR PLAN DRAWINGS OR RISER/WIRING DIAGRAMS INDICATING THE PROPOSED CHANGES SHALL BE SUBMITTED ALONG WITH THE OTHER REQUIRED SHOP DRAWINGS.

J. CONTRACTOR SUBMITTALS:

I. SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
2. AS-BUILT ELECTRICAL DRAWINGS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY FLORIDA BUILDING CODE, ARTICLE C405.5.4.1
3. OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY FLORIDA BUILDING CODE, ARTICLE C405.5.4.2.

K. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.

L. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER OR AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND THE FLORIDA BUILDING CODE, SECTION 808. SEE ARCHITECTURAL DRAWINGS FOR DETAIL OF CEILING AND LUMINAIRE SUPPORT.

M. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.

N. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

O. VOLTAGE DROP

1. CONDUCTORS FOR ALL FEEDERS SHALL BE INCREASED FROM SIZES INDICATED ON DRAWINGS TO PREVENT VOLTAGE DROP EXCEEDING 2%.
2. CONDUCTORS FOR ALL BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED ON DRAWINGS TO PREVENT VOLTAGE DROP EXCEEDING 3%. FROM THE FURTHEST DEVICE.
3. DETERMINING CONDUCTOR SIZES SHALL BE BASED ON 80% OF THE BREAKER RATING.
4. FOR DETERMINATION OF WIRE SIZE FOR BID PURPOSES:
   * INCREASE WIRE BY 1 WIRE SIZE FOR RUNS 60 FT. TO 100 FT.
   * INCREASE WIRE BY 2 WIRE SIZES FOR RUNS 100 FT. TO 150 FT.
   * INCREASE WIRE BY 3 WIRES SIZES FOR RUNS FROM 150 FT. TO 230 FT.

P. PROVIDE CABLE LUGS SIZED FOR THE LINE AND/OR LOAD SIDE FEEDERS AS SCHEDULED FOR ALL SWITCHBOARDS, PANELBOARDS AND DISCONNECTS. WHERE CABLE LUGS ARE NOT AVAILABLE FOR THE SPECIFIC WIRE SIZE AND NUMBER OF SETS SCHEDULED, PROVIDE A TAP BOX ADJACENT TO THE EQUIPMENT WITH "POLARIS" TAPS TO TRANSITION TO CONDUCTORS TO MATCH THE CABLE LUGS AVAILABLE AND THE AMPERE RATING OF THE OVER-CURRENT DEVICE PROTECTING THE FEEDER.

Q. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS.

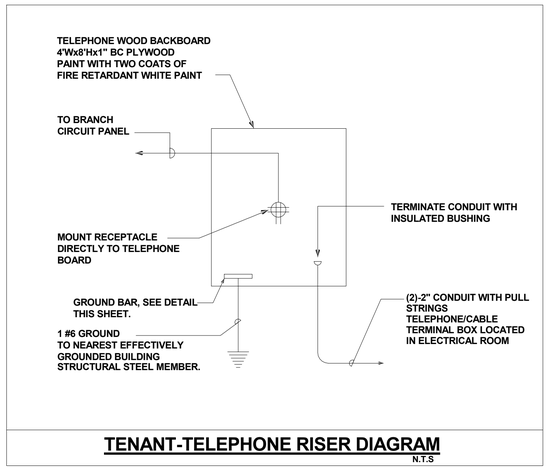
R. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.

S. ANY CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

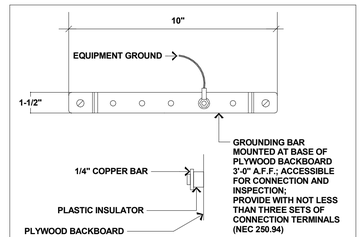
WARNING !!!

FLOOR SLABS IN THIS BUILDING ARE POST TENSIONED AND MUST BE X-RAYED PRIOR TO CORE DRILLING OR OTHER PENETRATIONS.

CONTRACTOR SHALL COORDINATE WITH STRUCTURAL ENGINEER AND OWNER TO OBTAIN PERMISSION BEFORE COMMENCING ANY SLAB PENETRATIONS.



TENANT-TELEPHONE RISER DIAGRAM
N.T.S



SIDE VIEW

INTERSYSTEM BONDING TERMINATION
N.T.S

ELECTRICAL SHEET INDEX

ELECTRICAL IN PLENUM SPACES

VERIFY WITH MECHANICAL PLANS AND PROVIDE ELECTRICAL INSTALLATION AND EQUIPMENT AS REQUIRED BY CODE:

ELECTRICAL INSTALLATION IN OTHER SPACES USED FOR ENVIRONMENTAL AIR (PLENUMS) SHALL COMPLY WITH NEC REQUIREMENTS ARTICLE 300.22(C)(1)(2)(3);
WIRING METHODS: THE USE OF TOTALLY ENCLOSED BUSWAYS, METALLIC RACEWAYS, FACTORY ASSEMBLED MULTICONDUCTOR CONTROL OR POWER CABLE SPECIFICALLY LISTED FOR USE WITHIN AN AIR-HANDLING SPACE.
CABLE TRAY SYSTEMS : THE USE OF METALLIC CABLE TRAY SYSTEMS
EQUIPMENT: ELECTRICAL EQUIPMENT WITH A METAL ENCLOSURE OR ELECTRICAL EQUIPMENT WITH NON-METALLIC ENCLOSURE LISTED FOR USE WITHIN AN AIR-HANDLING SPACE AND HAVING LOW SMOKE AND HEAT RELEASE PROPERTIES AND ASSOCIATED WIRING MATERIAL SUITABLE FOR THE AMBIENT TEMPERATURE

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22
Certification of Authorization #8189

ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

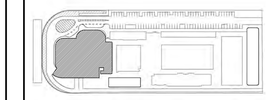
STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
ELECTRICAL NOTES

PROJECT NUMBER: 010326.000
DATE: 06/03/2022
SCALE: 12" = 1'-0"

SHEET
E0-001

CAM 23-0723
Exhibit 1M
Page 109 of 169

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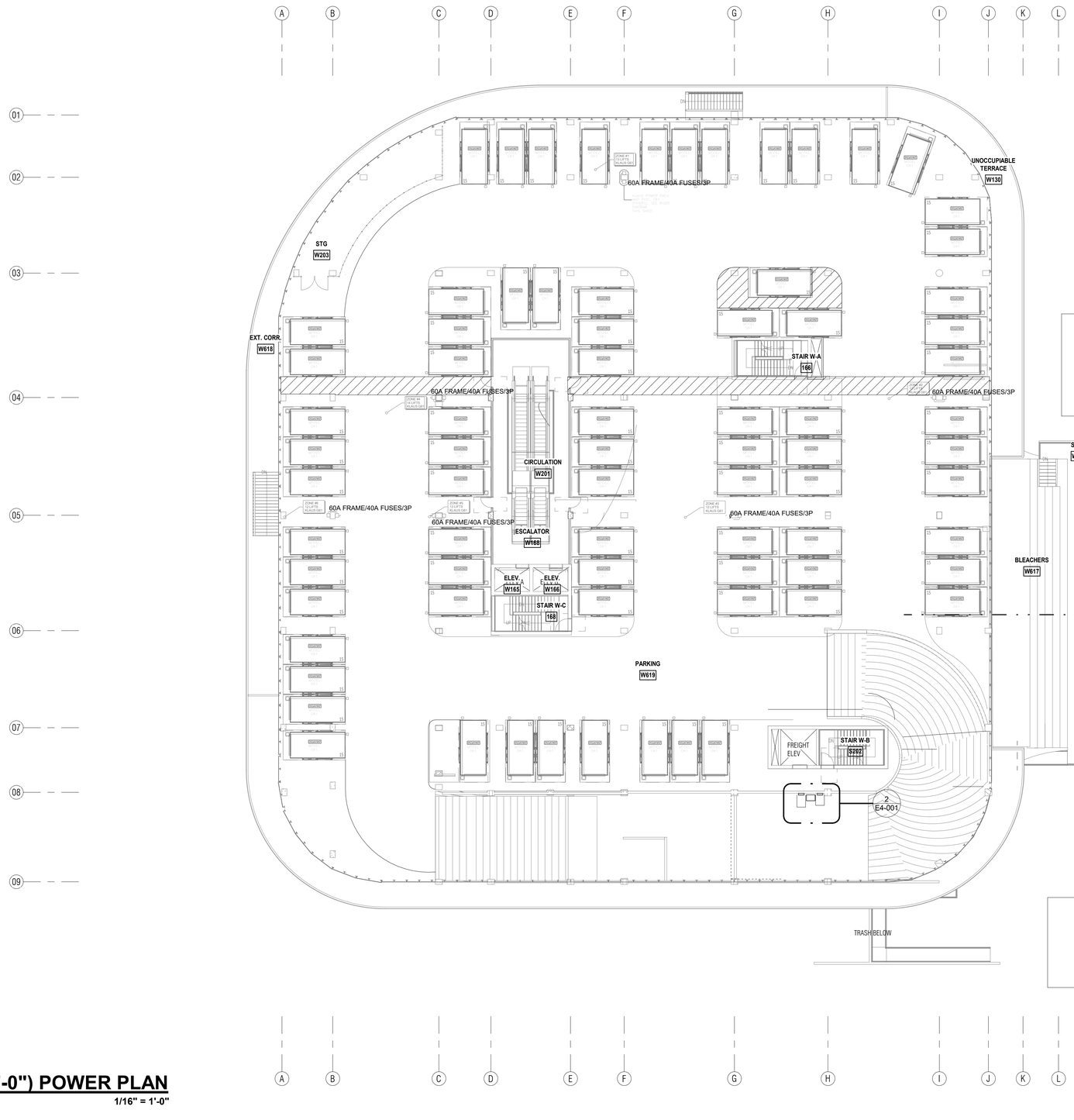

LEVEL 2 (20'-0") POWER PLAN

1/16" = 1'-0"

LEVEL 02 - MECHANICAL EQUIPMENT FEEDER SCHEDULE

EQUIPMENT DESCRIPTION	FEEDER DESIGNATION	DISCONNECT			MOTOR STARTER	KEY NOTES
		FRAME	FUSE	POLES		
AC-E02	-		(A)	3	-	-
VAV-E200	-		(A)	1	-	-
VAV-E201	-		(A)	2	-	-
VAV-E202	-		(A)	2	-	-
VAV-E203	-		(A)	2	-	-
FSD-E201	-	-		1	-	(B)

SCHEDULE KEY NOTES:

(A) WIRE CIRCUIT THRU DISCONNECTING MEANS FURNISHED WITH EQUIPMENT.

(B) CONNECT MOTORIZED DAMPER TO CLOSEST BRANCH CIRCUIT IN THE AREA. MOTOR LESS THAN 1/8HP. DISCONNECTING MEANS IS THE BRANCH CIRCUIT OCPD. [NEC 430.109(B)].

(C) EXHAUST FAN OPERATION TO RUN CONTINUOUSLY COORDINATE WITH MECHANICAL

GENERAL NOTES:

1. WIRE FEEDER THRU DISCONNECT/STARTER AND CONNECT EQUIPMENT FOR OPERATION.
2. MOUNT DISCONNECT/STARTER IMMEDIATELY ADJACENT TO EQUIPMENT SERVE. LOCATE DISCONNECT/STARTER TO PROVIDE ACCESS AND WORKING CLEARANCE AS REQUIRED BY NEC

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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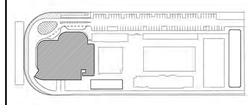
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
WEST BLDG LEVEL 02 POWER PLAN_NORTH

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

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DATED: 08/23/22

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PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

Certification of Authorization #8189

PROJECT NUMBER: 010326.000
DATE: 06/03/2022
SCALE: As indicated

SHEET
E3-102-N

CAM 23-0723
Exhibit 1M
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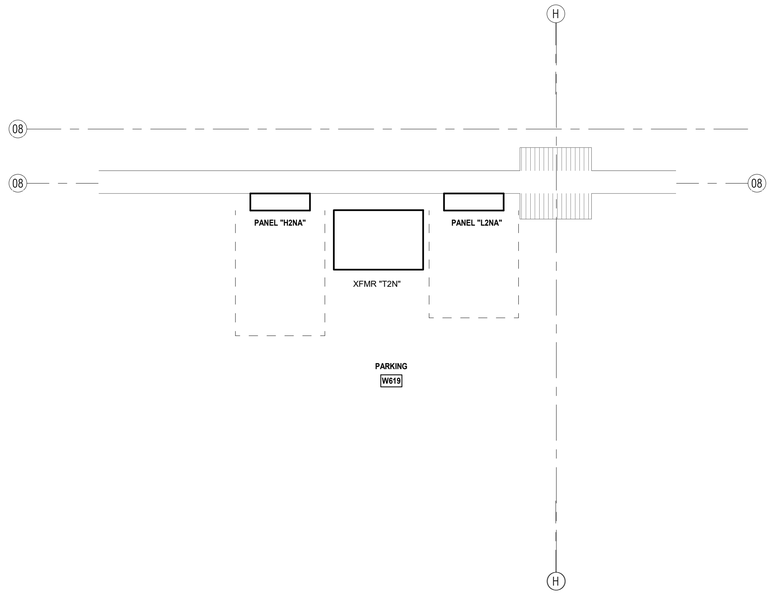
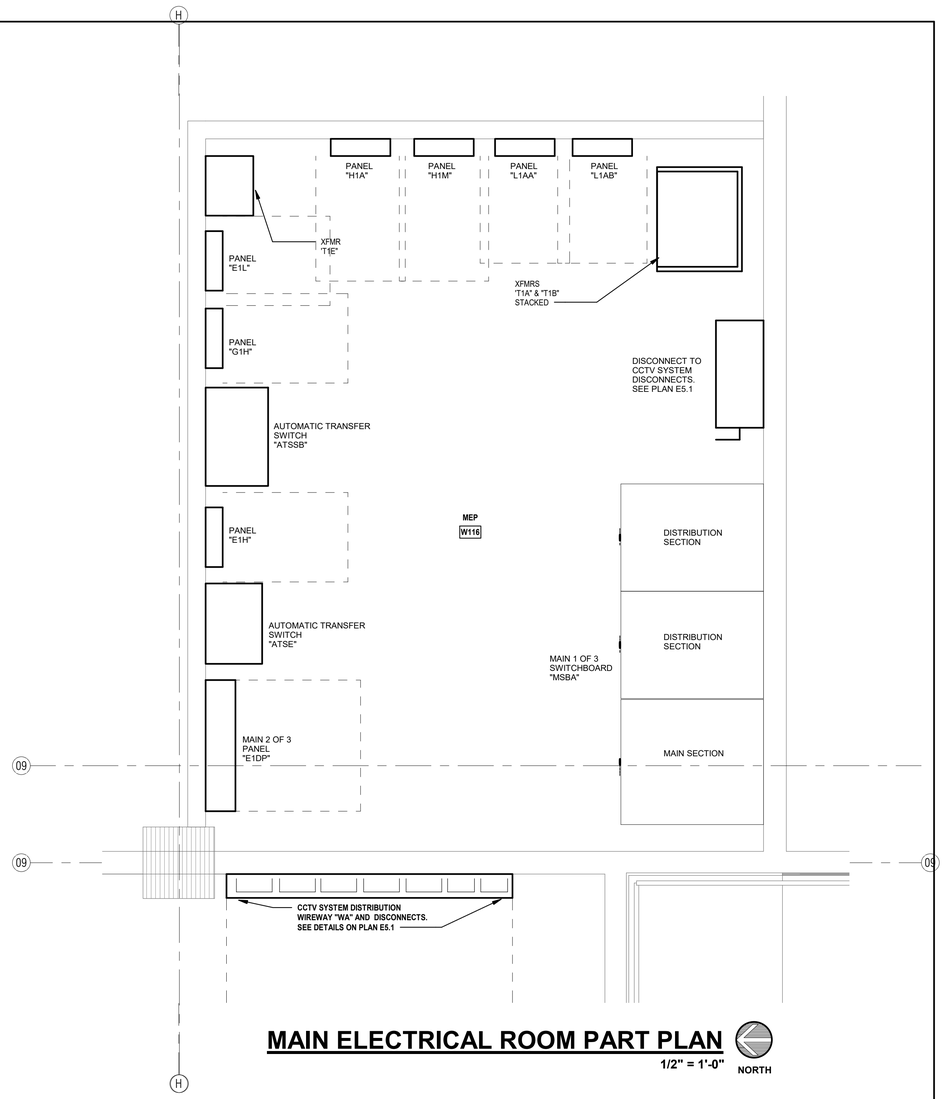


LEVEL 2 ELECTRICAL ROOM PART PLAN

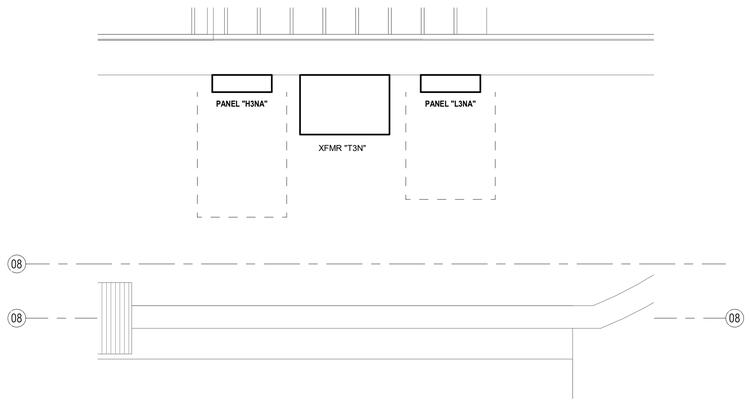
1/2" = 1'-0"



MAIN ELECTRICAL ROOM PART PLAN

1/2" = 1'-0"

NORTH



LEVEL 3 ELECTRICAL ROOM PART PLAN

1/2" = 1'-0"

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1407 West Newport Center Drive
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Phone 954.949.2200 Fax 954.949.2201
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2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

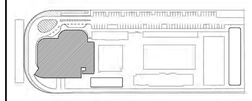
CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT

ISHOF - WEST BUILDING

501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE

ENLARGED ELECTRICAL ROOM PLANS

PROJECT NUMBER: 010326.000
DATE: 06/03/2022
SCALE: 1/2" = 1'-0"

SHEET

E4-001

CAM 23-0723
Exhibit 1M
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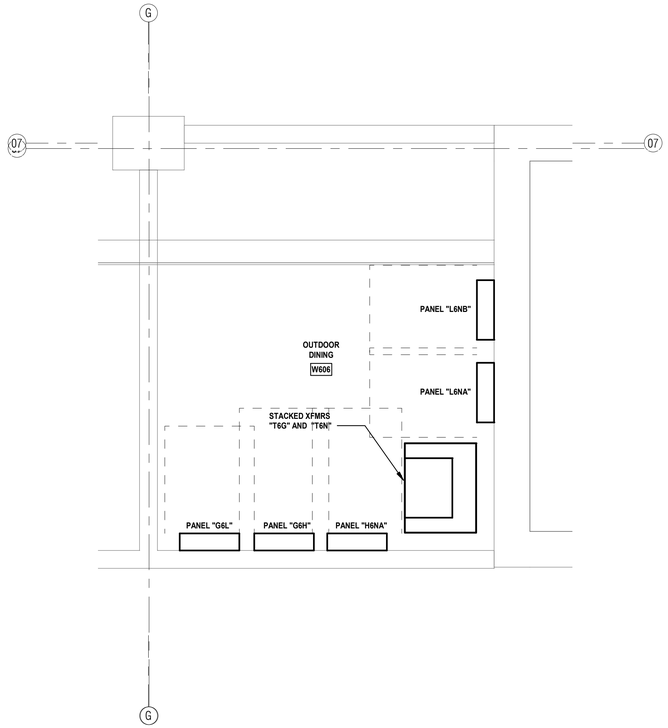
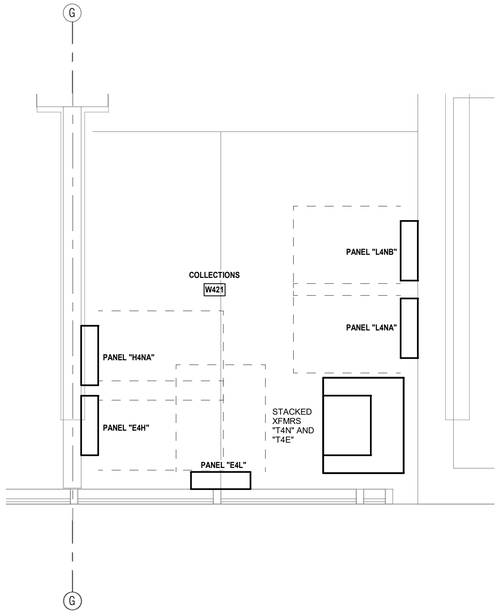


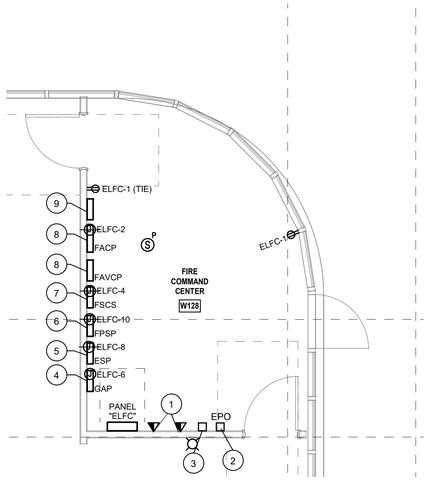
LEVEL 06 ELECTRICAL ROOM PART PLAN

1/2" = 1'-0"



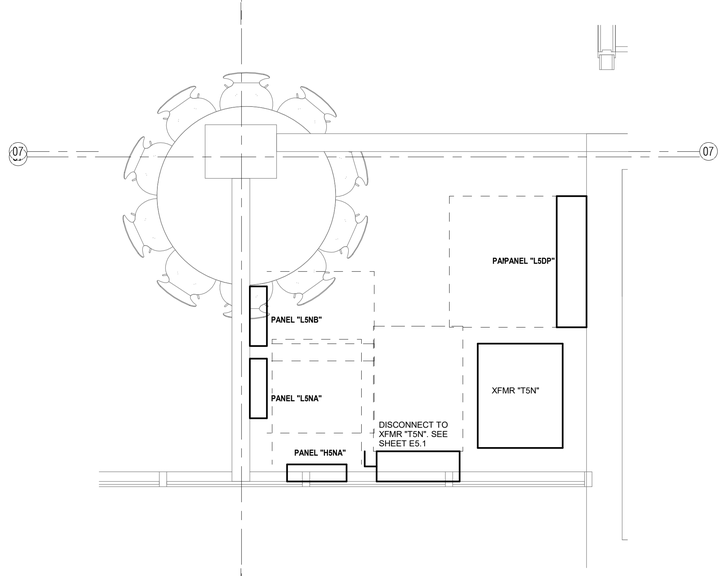
LEVEL 4 ELECTRICAL ROOM PART PLAN

1/2" = 1'-0"



FIRE COMMAND CENTER ENLARGED PLAN

1/4" = 1'-0"



LEVEL 5 ELECTRICAL ROOM PART PLAN

1/2" = 1'-0"

FIRE COMMAND CENTER GENERAL NOTES

THE FIRE COMMAND CENTER SHALL COMPLY WITH FFPC 11.9 AND SHALL CONTAIN THE FOLLOWING:

1. **THE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM CONTROL UNIT;**
2. **FIRE DETECTION AND ALARM SYSTEM ANNUNCIATOR**
3. **ANNUNCIATOR VISUALLY INDICATING THE LOCATION OF THE ELEVATORS AND WHETHER THEY ARE OPERATIONAL.**
4. **STATUS INDICATORS AND CONTROLS FOR AIR-HANDLING SYSTEMS.**
5. **CONTROLS FOR UNLOCKING STAIRWAY DOORS SIMULTANEOUSLY**
6. **SPRINKLER VALVE AND WATERFLOW DETECTOR DISPLAY PANELS.**
7. **EMERGENCY AND STANDBY POWER STATUS INDICATORS.**
8. **FIRE PUMP STATUS INDICATORS.**
9. **GENERATOR SUPERVISION DEVICES AND MANUAL START TRANSFER FEATURES**
10. **A TELEPHONE FOR FIRE DEPARTMENT USE WITH CONTROLLED ACCESS TO THE PUBLIC TELEPHONE SYSTEM**
11. **THE FIRE-FIGHTER'S CONTROL PANEL REQUIRED FOR SMOKE CONTROL SYSTEMS INSTALLED IN THE**
12. **SCHEMATIC BUILDING PLANS INDICATING THE TYPICAL FLOOR PLAN AND DETAILING THE BUILDING CORE, MEANS OF EGRESS, FIRE PROTECTION SYSTEMS, FIRE-FIGHTING EQUIPMENT AND FIRE DEPARTMENT ACCESS AND THE LOCATION OF FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS.**
13. **AN APPROVED BUILDING INFORMATION CARD THAT CONTAINS, BUT IS NOT LIMITED TO, THE FOLLOWING INFORMATION:**

13.1. GENERAL BUILDING INFORMATION THAT INCLUDES: PROPERTY NAME, ADDRESS, THE NUMBER OF FLOORS IN THE BUILDING (ABOVE AND BELOW GRADE), USE AND OCCUPANCY CLASSIFICATION (FOR MIXED USES, IDENTIFY THE DIFFERENT TYPES OF OCCUPANCIES ON EACH FLOOR), ESTIMATED BUILDING POPULATION

13.2. BUILDING EMERGENCY CONTACT INFORMATION THAT INCLUDES: A LIST OF THE 'S EMERGENCY CONTACTS (E.G., BUILDING MANAGER, BUILDING ENGINEER, ETC.) AND THEIR RESPECTIVE WORK PHONE NUMBER, CELL PHONE NUMBER, E-MAIL ADDRESS;

13.3. BUILDING CONSTRUCTION INFORMATION THAT INCLUDES: THE TYPE OF BUILDING CONSTRUCTION (E.G., FLOORS, WALLS, COLUMNS, AND ROOF ASSEMBLIES);

13.4. EXIT STAIR INFORMATION THAT INCLUDES: NUMBER OF EXIT STAIRS IN BUILDING, EACH EXIT STAIR DESIGNATION AND FLOORS SERVED, LOCATION WHERE EACH EXIT STAIR DISCHARGES, EXIT STAIRS THAT ARE PRESSURIZED, EXIT STAIRS PROVIDED WITH EMERGENCY LIGHTING, EACH EXIT STAIR THAT ALLOWS REENTRY, EXIT STAIRS PROVIDING ROOF ACCESS; ELEVATOR INFORMATION THAT INCLUDES: NUMBER OF ELEVATOR BANKS, ELEVATOR BANK DESIGNATION, ELEVATOR CAR NUMBERS AND RESPECTIVE FLOORS THAT THEY SERVE, LOCATION OF ELEVATOR MACHINE ROOMS, LOCATION OF SKY LOBBY, LOCATION OF FREIGHT ELEVATOR BANKS;

13.5. BUILDING SERVICES AND SYSTEM INFORMATION THAT INCLUDES: LOCATION OF MECHANICAL ROOMS, LOCATION OF BUILDING MANAGEMENT SYSTEM, LOCATION AND CAPACITY OF ALL FUEL OIL TANKS, LOCATION OF EMERGENCY GENERATOR, LOCATION OF NATURAL GAS SERVICE;

13.6. FIRE PROTECTION SYSTEM INFORMATION THAT INCLUDES: LOCATIONS OF STANDPIPES, LOCATION OF FIRE PUMP ROOM, LOCATION OF FIRE DEPARTMENT CONNECTIONS, FLOORS PROTECTED BY AUTOMATIC SPRINKLERS, LOCATION OF DIFFERENT TYPES OF SPRINKLER SYSTEMS INSTALLED (E.G., DRY, WET, PRE-ACTION, ETC) AND

13.7 HAZARDOUS MATERIAL INFORMATION THAT INCLUDES: LOCATION OF HAZARDOUS MATERIAL, QUANTITY OF HAZARDOUS MATERIAL.

14. **WORK TABLE.**
15. **THE FIRE DEPARTMENT COMMUNICATION UNIT**
16. **PUBLIC ADDRESS SYSTEM, AS REQUIRED**
17. **ELEVATOR FIRE RECALL SWITCH IN ACCORDANCE WITH ASME A17.1**
18. **ELEVATOR EMERGENCY OR STANDBY POWER SELECTOR SWITCH(ES)**

KEY NOTES

1 TELEPHONE FOR FIRE DEPARTMENT USE WITH CONTROLLED ACCESS TO PUBLIC TELEPHONE SYSTEM.
2 SHUNT TRIP BUTTON FOR ALL BUILDING MAINS AND FOR GENERATOR.
3 UNLOCKING SWITCH FOR ALL STAIRWAY DOORS.
4 GENERATOR STATUS PANEL WITH VISUAL ALARM INDICATORS AND GENERATOR START AND STOP CONTROL.
5 ELECVATOR STATUS INDICATOR PANEL WITH CONTROL TO TURN ELEVATORS ON OR OFF.
6 FIRE PUMP STATUS PANEL: POWER AVAILABLE; PHASE REVERSAL; PUMP RUNNING.
7 GRAPHIC DISPLAY ANNUNCIATOR SMOKE CONTROL PANEL WITH POSITION SWITCH FOR EACH SMOKE ZONE. SMOKE CONTROL MODE TO BE DETERMINED BY MECHANICAL ENGINEER.
8 FIRE ALARM SYSTEM CONTROL PANELS: FIRE ANNUNCIATOR UNIT WITH ELEVATOR STATUS; FIRE PUMP STATUS INDICATOR; TWO-WAY FIRE DEPARTMENT COMMUNICATION SYSTEM CONTROL.
9 AUTOMATIC TRANSFER SWITCH CONTROL (MANUAL LOAD TRANSFER).

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
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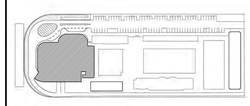

△	DESCRIPTION	DATE

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SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
ENLARGED ELECTRICAL ROOM PLANS

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SHEET
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CAM 23-0723
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Page 166 of 169

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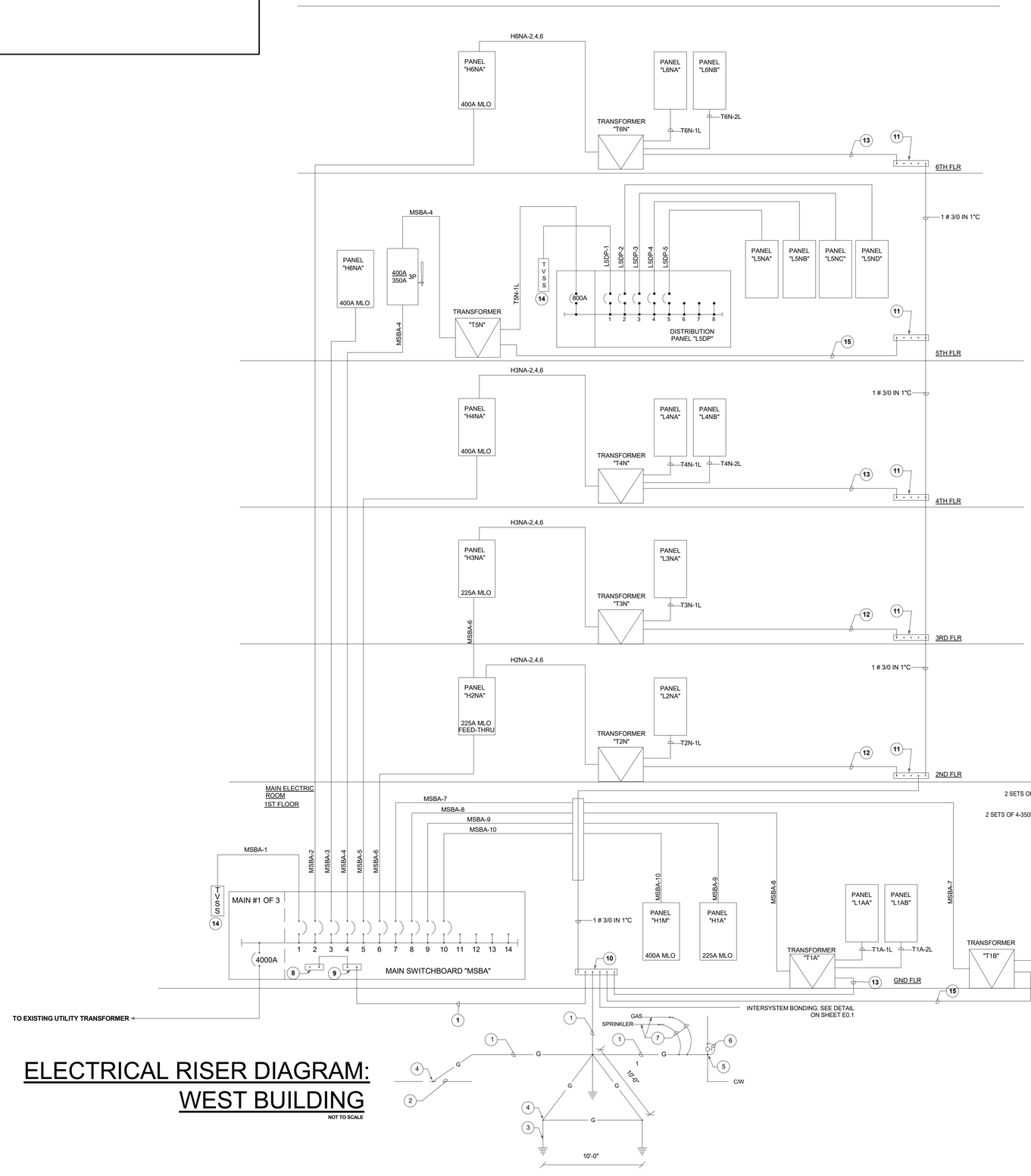

ELECTRICAL RISER DIAGRAM: WEST BUILDING

NOT TO SCALE

SCHEDULE OF DRY-TYPE TRANSFORMERS

MARK	KVA	VOLTAGE PRIMARY	VOLTAGE SECONDARY	MOUNTING	SECONDARY FEEDER MARK	BREAKER	FEEDER	NOTES
T1A	150	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T1N-1L	(1)	4#4/0 & 1#2G IN 2-1/2"	-
					T1N-2L	(1)	4#4/0 & 1#2G IN 2-1/2"	-
T1B	225	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T5N-1L	(1)	2 SETS 4-600MCM & 1#3/0G IN 4"	-
T2N	75	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T2N-1L	(1)	4#4/0 & 1#2G IN 2-1/2"	-
T3N	75	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T3N-1L	(1)	4#4/0 & 1#2G IN 2-1/2"	-
T4N	150	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T4N-1L	(1)	4#4/0 & 1#2G IN 2-1/2"	-
					T4N-2L	(1)	4#4/0 & 1#2G	-
T5N	225	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T5N-1L	(1)	2 SETS 4-600MCM & 1#3/0G IN 4"	-
T6N	112.5	480 VOLT 3□3W	208/120 VOLT 3□4W	FLOOR	T6N-1L	(1)	4#3/0 & 1#4G IN 2-1/2"	-
					T6N-2L	(1)	4#1/0 & 1#6G	-

NOTE:
(1) PANEL MAIN BREAKER IS TRANSFORMER SECONDARY BREAKER.

RISER KEY NOTES

1. 1#3/0 CU GROUNDING ELECTRODE CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT.
2. EXOTHERMIC CONNECTION OR HEAVY DUTY SOLID BRONZE BOLTED GROUND CLAMP U.L. LISTED FOR THE PURPOSE. ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR (20FT MIN. LENGTH) IN BOTTOM OF BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
3. 10 FT. LONG x 3/4" DIAMETER COPPER DRIVEN GROUND ELECTRODE.
4. EXOTHERMIC CONNECTION OR HEAVY DUTY SOLID BRONZE BOLTED GROUND CLAMP U.L. LISTED FOR THE PURPOSE.. (TYPICAL)
5. MAKE CONNECTION TO METALLIC COLD WATER ENTRANCE PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP.
6. PROVIDE 1#3/0 CU BONDING JUMPER AROUND FIRST VALVE.
7. PROVIDE 1#6 CU BONDING JUMPER TO INTERIOR METAL PIPING SYSTEMS SUBJECT TO BECOME ENERGIZED-SPRINKLER PIPES AND GAS PIPES-THE POINTS OF ATTACHMENT OF THE BONDING JUMPER SHALL BE ACCESSIBLE (NEC 104 (B))
8. GROUND BAR
9. NEUTRAL BAR
10. BUILDING PRINCIPAL GROUND BAR LOCATED INSIDE ELECTRICAL ROOM. SEE DETAIL ON SHEET E7.001.
11. PROVIDE GROUND BAR IN CORRESPONDING ELECTRICAL ROOM. CONNECT TO BUILDING STEEL AND COLD WATER PIPING.
12. 1#2-CU GROUNDING CONDUCTOR IN 3/4" SCHEDULE 40 PVC CONDUIT TO GROUND BAR LOCATED IN CORRESPONDING ELECTRICAL ROOM. BOND TO COLD WATER PIPING IN ADJACENT AREA.
13. 1#1/0-CU GROUNDING CONDUCTOR IN 3/4" SCHEDULE 40 PVC CONDUIT TO GROUND BAR LOCATED IN CORRESPONDING ELECTRICAL ROOM. BOND TO COLD WATER PIPING IN ADJACENT AREA.
14. PROVIDE EXTERNAL SURGE PROTECTIVE AS SPECIFIED ON PANEL SCHEDULE SHEET E6.1
15. 1#3/0-CU GROUNDING CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT TO GROUND BAR LOCATED IN CORRESPONDING ELECTRICAL ROOM. BOND TO COLD WATER PIPING IN ADJACENT AREA.
16. PROVIDE SOLID STATE CIRCUIT BREAKER IN NEMA 4X ENCLOSURE, SIZE AS INDICATED.

WIREWAY "WA" SIZE CALCULATION

PER NEC 376.22

CONDUCTOR TYPE AND SIZE	QUANTITY	INDIVIDUAL AREA (in.)²	TOTAL AREA (in.)²
350MCM, THHN	8	0.5242	4.1936
#3/0AWG, THHN	16	0.2679	4.2864
#1/0AWG, THHN	4	0.1855	0.742
#1AWG, THHN	2	0.1562	0.3124
#3AWG, THHN	8	0.0973	0.7784
#6AWG, THHN	5	0.0507	0.2535
#8AWG, THHN	2	0.0366	0.0732
TOTAL AREA OCCUPIED BY CONDUCTORS			10.6395

MINIMUM WIREWAY AREA REQUIRED:
10.3695 in.² / 20% fill = 53.1975 in.²
MINIMUM SIZE SQUARE WIREWAY REQUIRED:
≤ **8"W X 8"H (MINIMUM REQUIRED)=64 in²**

REQUIRED WIREWAY WIDTH-12" FOR COMPLIANCE WITH NEC 376.23(A) -MINIMUM WIRE-BENDING SPACE(312.6(A)) FOR 350MCM THHN CONDUCTOR: **FINAL WIREWAY SIZE: 12"W X 8"H**

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
ISHOF - WEST BUILDING
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:

△	DESCRIPTION	DATE

NOT FOR CONSTRUCTION

SEAL & SIGNATURE

PROJECT NORTH:

DRAWING TITLE
ELECTRICAL RISER DIAGRAM NORMAL POWER

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

Certification of Authorization #8189 08/23/22

PROJECT NUMBER: 010326.000
DATE: 06/03/2022
SCALE: 12" = 1'-0"

SHEET
E5-001

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GENERATOR SPECIFICATIONS

* 480/277 VOLTS, 3 PHASE, 4 WIRE, 60HZ, 1800 RPM.
* GENERATOR SET SHALL INCLUDE ENGINE, ALTERNATOR AND CONTROLLER FURNISHED BY A SINGLE SUPPLIER AND U.L. 2200 LISTED AS A COMPLETE ASSEMBLY INCLUDING ALL STANDARD EQUIPMENT.

1) ONAN "POWER COMMAND" INTEGRATED CONTROL SYSTEM, (U.L. 508 LISTED) INCLUDING:
   a. AC VOLTS, AMPS, HERTZ, KW, POWER FACTOR AND PERCENT LOAD READOUTS.
   b. COMPLETE ENGINE MONITOR AS REQUIRED BY N.F.P.A. 110, LEVEL 1.
   c. OVER/UNDER VOLTAGE MONITORING AND SHUT DOWN.
   d. OVER CURRENT AND SHORT CIRCUIT MONITORING AND SHUT DOWN.
   e. "AMPSENTRY" PROTECTION.

2) ENGINE:
   a. ENGINE JACKET WATER HEATER THERMOSTAT CONTROLLED, U.L. LISTED, RATED 2000 WATTS AT 208/240/480 VOLTS, SINGLE PHASE.
   b. ELECTRTONIC/ISOCHRONOUS GOVERNOR.
   c. FLEXIBLE FUEL LINES.
   d. LOW PROFILE CRITICAL GRADE EXHAUST SILENCER WITH STAINLESS, FLEXIBLE EXHAUST COUPLINGS.
   e. LEAD ACID STARTING BATTERIES, CABLES AND RACKS AS REQUIRED BY N.F.P.A. 110.

3) ALTERNATOR:5M4034
   a. STANDARD 12 LEAD RECONNECTABLE ALTERNATOR.
   b. CLASS "H" INSULATION, 130°C TEMPERATURE RISE ABOVE 40°C AMBIENT.
   c. PERMANENT MAGNET EXCITER.
   d. ALTERNATOR SET BREAKERS.
      1.
      2.
      3.

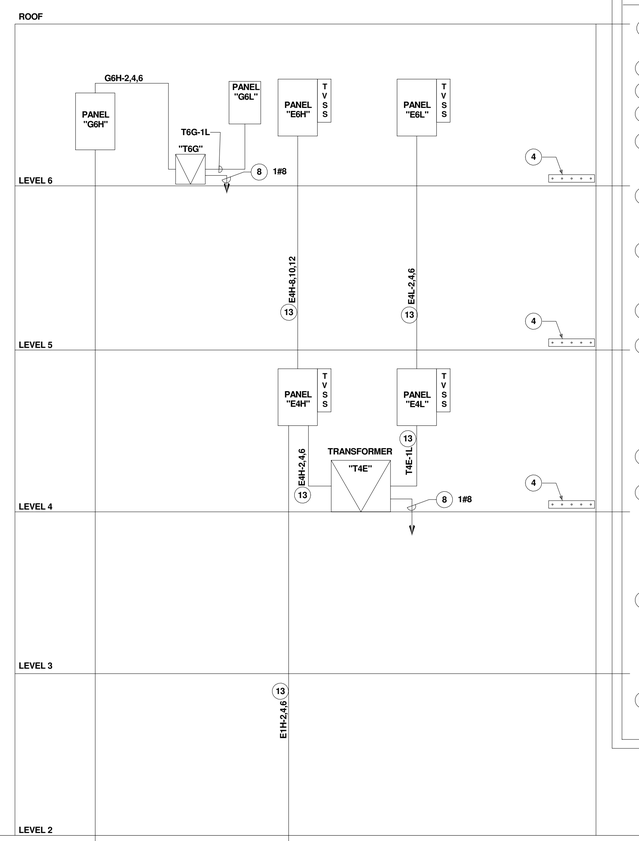
4) DIESEL FUEL TANK: (PHOENIX PRODUCTS OR AM&PS, MANUFACTURER)
   a. OVERFILL PROTECTION, ALL VENTS AND FITTINGS INCLUDING LOW LEVEL AND RUPTURE ALARMS AND ALL ACCESSORIES, ALARMS AND EQUIPMENT AS REQUIRED BY F.D.E.P.
   b. RACOR AQUA "BLDC" FUEL/WATER SEPARATOR WITH SWITCHABLE 3 MICRON FILTRATION ELEMENT AND WATER-IN-BOWL ENGINE SHUT DOWN CONTACTS WIRED TO GENERATOR CONTROL SYSTEM.

5) ACCESSORIES AND SERVICES
   a. FLOAT EQUALIZER TYPE 10AMP BATTERY CHARGER WITH ALARMS AS REQUIRED BY N.F.P.A. 110 FOR LEVEL-1 INSTALLATIONS.
   b. LEAD ACID STARTING BATTERIES, CABLES AND RACKS AS REQUIRED BY N.F.P.A. 110.
   c. BREAK GLASS STATION FOR EMERGENCY SHUT-DOWN, ONE IN THE FIRE CONTROL ROOM, ONE IN THE MAIN ELECTRICAL ROOM AND ONE AT THE GENERATOR.
   d. START UP AND ACCEPTANCE TESTING AS REQUIRED BY N.F.P.A. 110 FOR LEVEL-1 INSTALLATIONS. (110-7.13) TESTING SHALL BE CONDUCTED BY FACTORY TRAINED TECHNICIANS INCLUDING 4 HOUR RESISTIVE LOAD BANK TEST.
   e. SPRING TYPE VIBRATIONS ISOLATORS.
   f. TWO SETS OF OPERATORS, PARTS AND INSTALLATION MANUALS.
   g. FIVE YEAR, 3,000 HOUR COMPREHENSIVE WARRANTY.
   h. REMOTE ANNUNCIATOR AS REQUIRED BY N.F.P.A. 110, LEVEL 1.
   i. CERTIFIED FACTORY TESTING.
   j. ALL ACCESSORIES REQUIRED TO HAVE A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.

SCHEDULE OF DRY-TYPE TRANSFORMERS

MARK	KVA	VOLTAGE PRIMARY	VOLTAGE SECONDARY	MOUNTING	SECONDARY FEEDER MARK	SECONDARY FEEDER BREAKER	SECONDARY FEEDER FEEDER	NOTES
T1E	30	480 VOLT 3ph,3W	208/120 VOLT 3ph,4W	FLOOR	T1E-1L	(1)	4#3 & 1#8G IN 1-1/4"	-
T4E	30	480 VOLT 3ph,3W	208/120 VOLT 3ph,4W	STACKED WITH T4N	T4E-1L	(1)	4#3 & 1#8G IN 1-1/4"	-
T6G	30	480 VOLT 3ph,3W	208/120 VOLT 3ph,4W	STACKED WITH T6N	T6G-1L	(1)	4#3 & 1#8G IN 1-1/4"	-

NOTE:
(1) PANEL MAIN BREAKER IS TRANSFORMER SECONDARY BREAKER.



KEY NOTES

1. GROUNDING ELECTRODE CONDUCTOR, SIZE AS INDICATED, IN 3/4" SCHEDULE 40 PVC CONDUIT TO BUILDING PRINCIPLE GROUND BAR. REFER TO SHEET E5.1.
2. GROUND BAR.
3. NEUTRAL BAR.
4. LOCAL ELECTRICAL ROOM GROUND BAR.
5. THE GENERATOR IS TO NOT TO BE CONSIDERED A SEPARATELY DERIVED A/C SYSTEM AND IS TO BE GROUNDED THRU THE BUILDING ELECTRICAL SYSTEM. DO NOT BOND GENERATOR NEUTRAL TO GENERATOR FRAME.
6. PROVIDE SIGNAGE PLAQUE WITH MINIMUM LETTERING SIZE OF (3/16") ARIAL FONT #16 OR EQUIVALENT, INDICATING "CLASS-2A, LEVEL-1, TYPE 10 EMERGENCY SYSTEM" AND LOCATION OF THE EMERGENCY GENERATOR
7. PROVIDE EMERGENCY SHUT OFF SWITCH IN NEMA-3R BOX FOR GENERATOR SHUT-DOWN. DEVICE SHALL BE READILY VISIBLE AND LABELED WITH SIGNAGE PLAQUE WITH MINIMUM LETTERING SIZE OF (3/16") ARIAL FONT #16 OR EQUIVALENT. VERIFY LOCATION WITH A.H.J
8. GROUNDING ELECTRODE CONDUCTOR, SIZE AS INDICATED, IN 3/4" SCHEDULE 40 PVC CONDUIT TO LOCAL GROUND BAR.
9. PROVIDE MANUAL TRANSFER SWITCH FOR CONNECTION TO TEMPORARY GENERATOR DURING REPAIRS OF THE BUILDING GENERATOR, IN COMPLIANCE WITH NEC 700.3(F). HEAVY DUTY QUICK CONNECT DOUBLE THROW NON-AUTOMATIC SWITCH ASSEMBLY WITH CAM-LOK RECEPTACLES, 3 POLES, 4 WIRES, 600V, 200A, WITH SOLID NEUTRAL IN NEMA 3R ENCLOSURE, ASCO SERIES 300 WITH INTEGRATED QUICK CONNECTIONS CAM-LOK TYPE "J03MTQ" SERIES OR APPROVED EQUAL. SEE SHEET E3.1 FOR LOCATION.
10.
11.
12.
13. PROVIDE FEEDER 2 HOUR FIRE RATED CABLE. "VITALink MC" OR AN APPROVED EQUAL PER NEC 700.10(D) REQUIREMENTS

SCHEDULE OF AUTOMATIC TRANSFER SWITCHES

MARK	AMPERE RATING	POLES	VOLTAGE RATING	MOUNTING	FEEDER MARK	FEEDER WIRE, GROUND, & CONDUIT	NOTES
ATSE		3	480/277V	WALL	ATSE-1L	4#1/0 & 1#6G IN 2"C	1
ATSSB		3	480/277V	WALL	ATSSB-1L	2 SETS OF 4-350MCM & 1#1G IN 3"C	

SPECIFICATIONS:

(A) MANUFACTURERS:
   (1) ASCO SERIES 300 OR LAKESHORE TYPE "MCDA".

(B) VOLTAGE AND FREQUENCY SENSING:
   (1) RMS VOLTAGE SENSING ON ALL PHASES OF THE NORMAL AND EMERGENCY SOURCES.
   (2) FREQUENCY SENSING OF THE NORMAL AND EMERGENCY SOURCES.

(C) TIME DELAY FEATURES:
   (1) NORMAL SOURCE FAILURE TO ENGINE START.
   (2) TRANSFER TO EMERGENCY OR AVAILABILITY OF EMERGENCY SOURCE.
   (3) EMERGENCY SOURCE FAILURE RETRANSFER (NORMAL SOURCE AVAILABLE).
   (4) ENGINE COOL DOWN FOLLOWING RETRANSFER TO NORMAL.
   (5) RETRANSFER TO NORMAL (NORMAL FAILURE MODE).
   (6) RETRANSFER TO NORMAL (TEST MODE).
   (7) DELAYED TRANSFER (LOAD "OFF" TIME).

(D) SIGNAL AND AUXILARY FEATURES:
   (1) ENGINE START CONTROL (FORM "C" CONTACT)
   (2) TRANSFER SWITCH AUXILARY POSITION INDICATING CONTACTS. (TO INDICATE CONNECTION TO NORMAL/EMERGENCY SOURCE)
   (3) TRANSFER SWITCH POSITION INDICATION
   GREEN LED: CLOSED ON NORMAL
   RED LED: CLOSED ON EMERGENCY

(E) ACCESSORIES:
   (1) THREE POSITION ENGINE CONTROL SWITCH. STOP, AUTO, ENGINE TEST.
   (2) PUSH-TO-TEST PILOT LIGHTS.
   (3) 40KA SURGE PROTECTION SERVICE ON LOAD.

NOTES:
1. AUTOMATIC TRANSFER SWITCH SHALL BE LISTED FOR EMERGENCY SYSTEM USE [2017 NEC 700.5(C)] SHORT CIRCUIT RATING SHALL BE FIELD-MARKED ON THE EXTERIOR [NEC 700.5(E)]

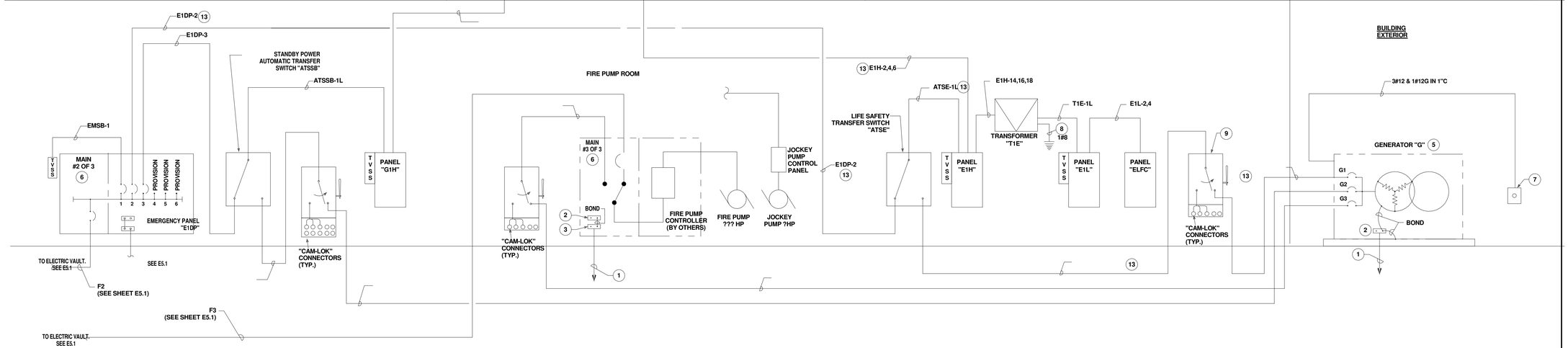
GENERAL NOTES

A. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD UNDER ALL DISTRIBUTION PANELS, SWITCHGEARS, TRANSFORMERS AND OTHER FLOOR MOUNTED ELECTRICAL EQUIPMENT.
B. A COMPLETE POWER STUDY (SHORT CIRCUIT AND COORDINATION) SHALL BE PROVIDED BY SWITCHGEAR SUPPLIER WITH THE SHOP DRAWINGS FOR REVIEW BY THE ENGINEER.

GENERATOR FUEL USAGE CALCULATION

FEEDER SCHEDULE

F1
F3



ELECTRICAL RISER DIAGRAM-EMERGENCY POWER

NOT TO SCALE

30% PROGRESS SET
NOT FOR CONSTRUCTION
DATED:08/23/22

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-

KAMM CONSULTING PROJECT #: 2020-0300
PROJECT MANAGER: JOE ZIMMER

KAMM Consulting
1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22
Certification of Authorization #8189

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ARQUITECTONICA

ARCHITECT:
ARQUITECTONICA
2900 OAK AVENUE
MIAMI, FL 33133
TEL:305.372.1812

STRUCTURAL ENGINEER:
THORNTON TOMASETTI
101 NE THIRD AVENUE, STE. 1170
FORT LAUDERDALE, FL 33301
TEL:954.903.9300

MEP/FP ENGINEERS:
KAMM CONSULTING
1407 WEST NEWPORT CENTER DR.
DEERFIELD BEACH, FL 33442
TEL:954.949.2200

CIVIL ENGINEER:
KEITH
2312 S ANDREWS AVE
FORT LAUDERDALE, FL 33316
TEL:954.788.3400

PROJECT
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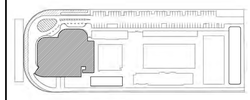
501 Seabreeze Blvd., Fort Lauderdale, FL 33316

KEY PLAN:



△	DESCRIPTION	DATE

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PROJECT NORTH:

DRAWING TITLE
ELECTRICAL RISER DIAGRAM EMERGENCY POWER

PROJECT NUMBER: 010326.000
DATE: 07/26/22
SCALE: 12" = 1'-0"
SHEET
E5-002

CAM 23-0723
Exhibit 1M
Page 100 of 109

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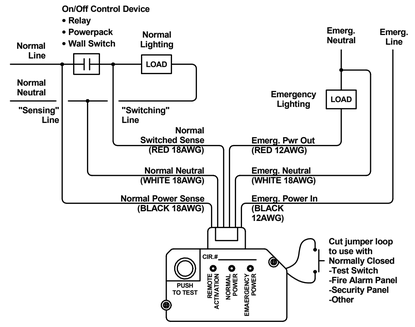
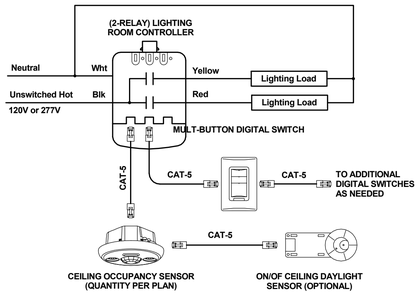
WATTSTOPPER "ELCU-200" WIRING DETAIL



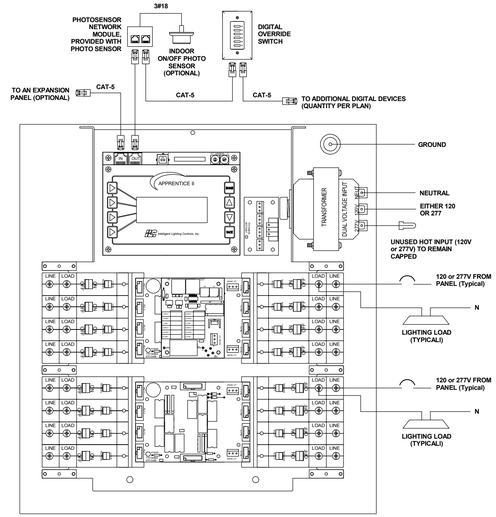
LIGHTING ROOM CONTROLLER WIRING DETAIL

(ON/OFF LIGHTING)
SHOWN WITH (2) RELAYS, TYPICAL FOR 1 OR 2 RELAYS



LIGHTING CONTROL PANEL WIRING DETAIL

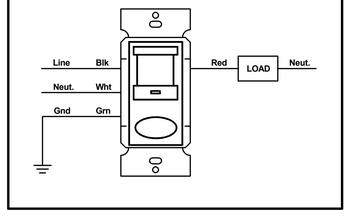
SHOWN FOR 16 RELAY LAYOUT, AVAILABLE IN 4, 8, 16 & 32 RELAYS



LIGHTING CONTROL PANEL DETAIL

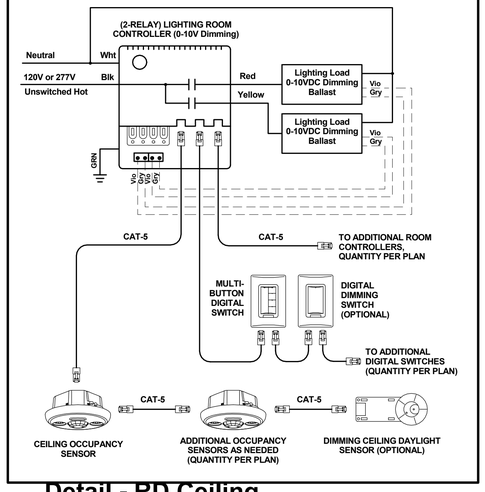
12" = 1'-0"

WALL SWITCH MOUNTED OCCUPANCY SENSOR DETAL



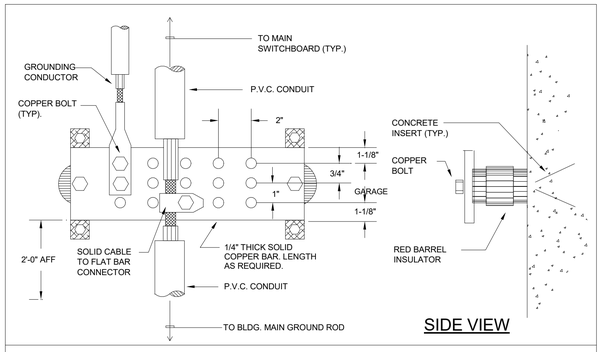
LIGHTING ROOM CONTROLLER WIRING DETAIL

(DIMMABLE LIGHTING)
SHOWN WITH (2) RELAYS, TYPICAL FOR 1, 2 OR 3 RELAYS



Detail - RD Ceiling

12" = 1'-0"



TYPICAL GROUND BAR DETAIL

NOT TO SCALE

30% PROGRESS SET

NOT FOR CONSTRUCTION

DATED: 08/23/22

ISSUED FOR PERMIT	-
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PROJECT MANAGER: JOE ZIMMER

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1407 West Newport Center Drive
Deerfield Beach, Florida 33442
Phone 954.949.2200 Fax 954.949.2201
engineering@kammconsulting.com

08/23/22

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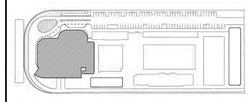

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PROJECT NORTH:

DRAWING TITLE
ELECTRICAL DETAILS

PROJECT NUMBER: 010326.000
DATE: 06/03/2022
SCALE: 12" = 1'-0"

SHEET
E7-001

CAM 23-0723
Exhibit 1M
Page 169 of 169