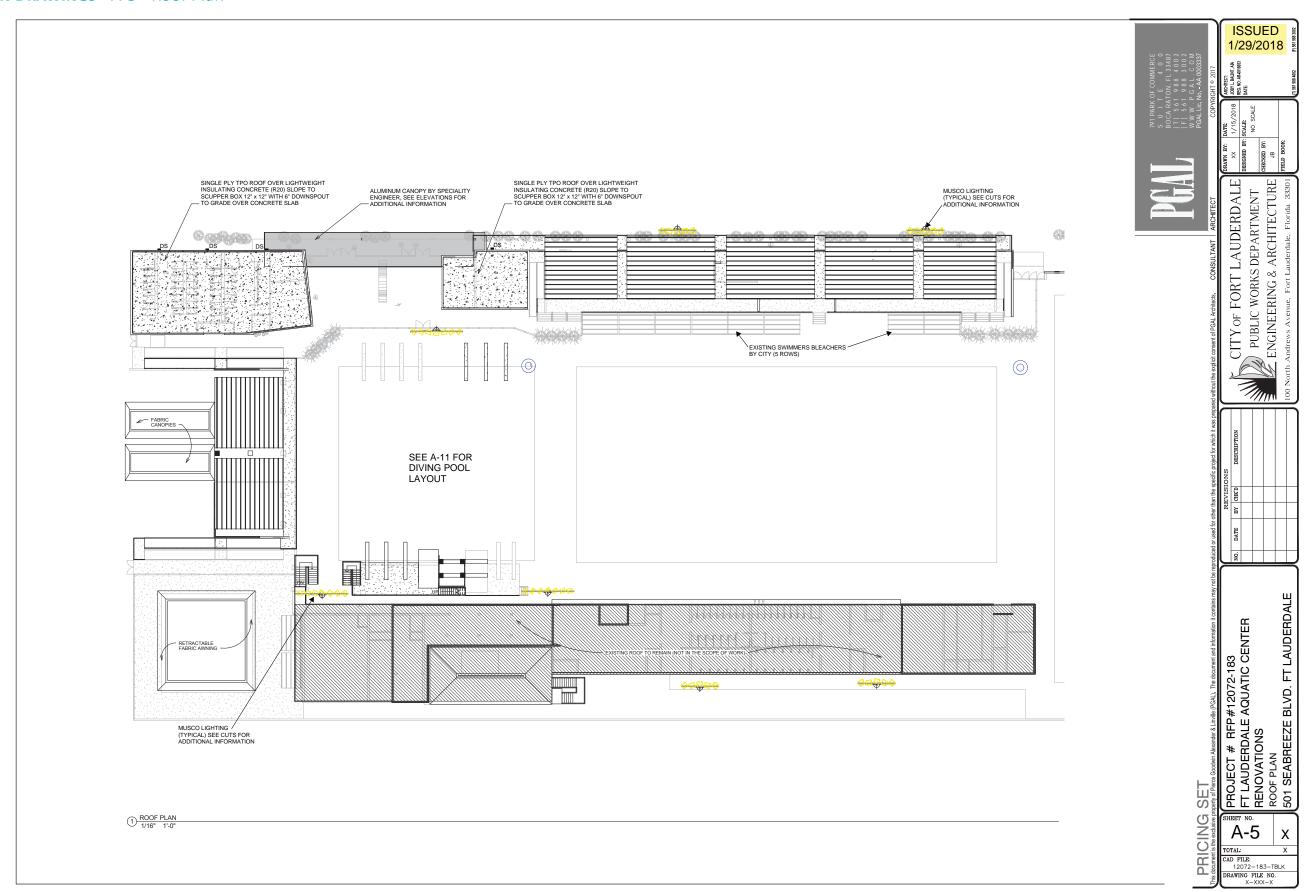
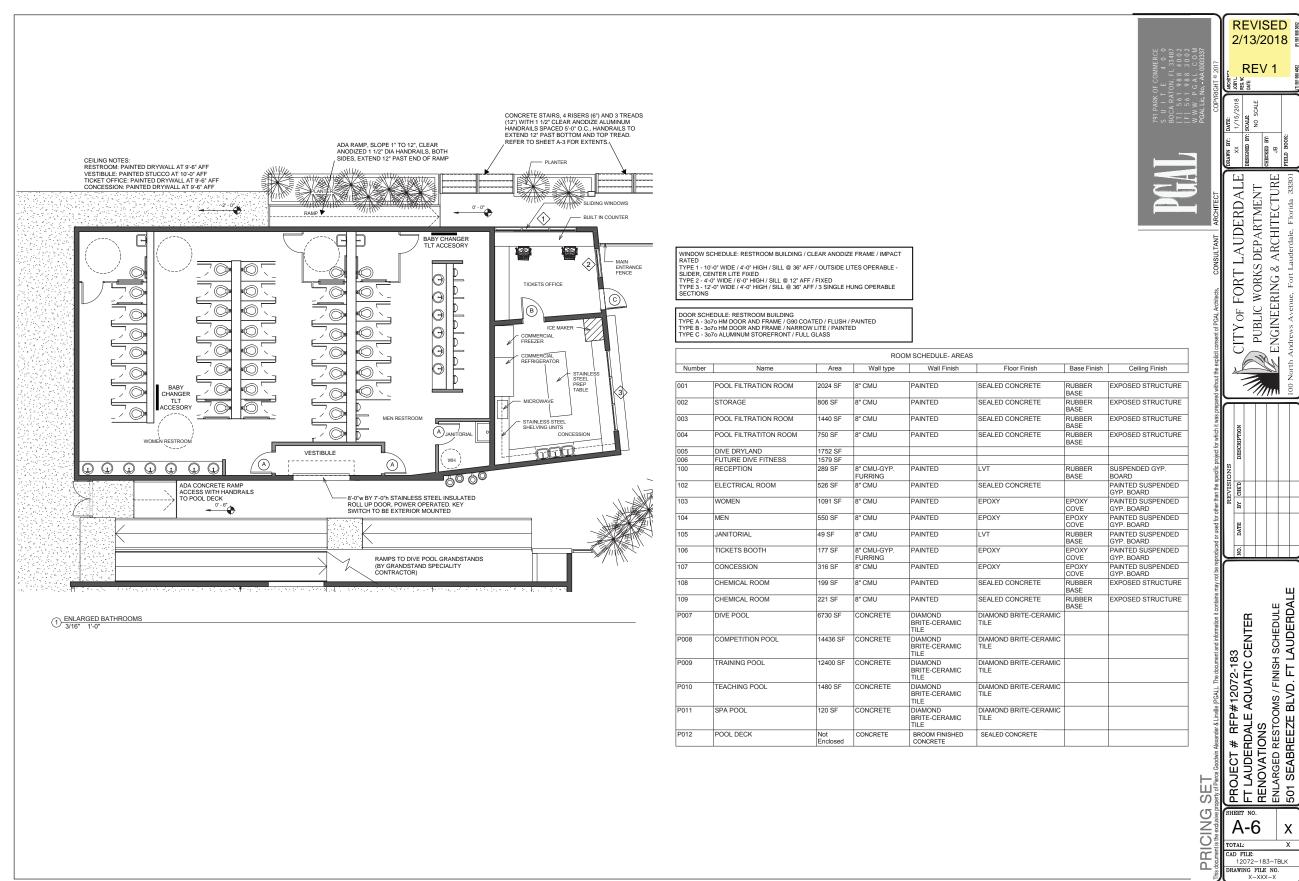


DESIGN DRAWINGS - A-5 - Roof Plan



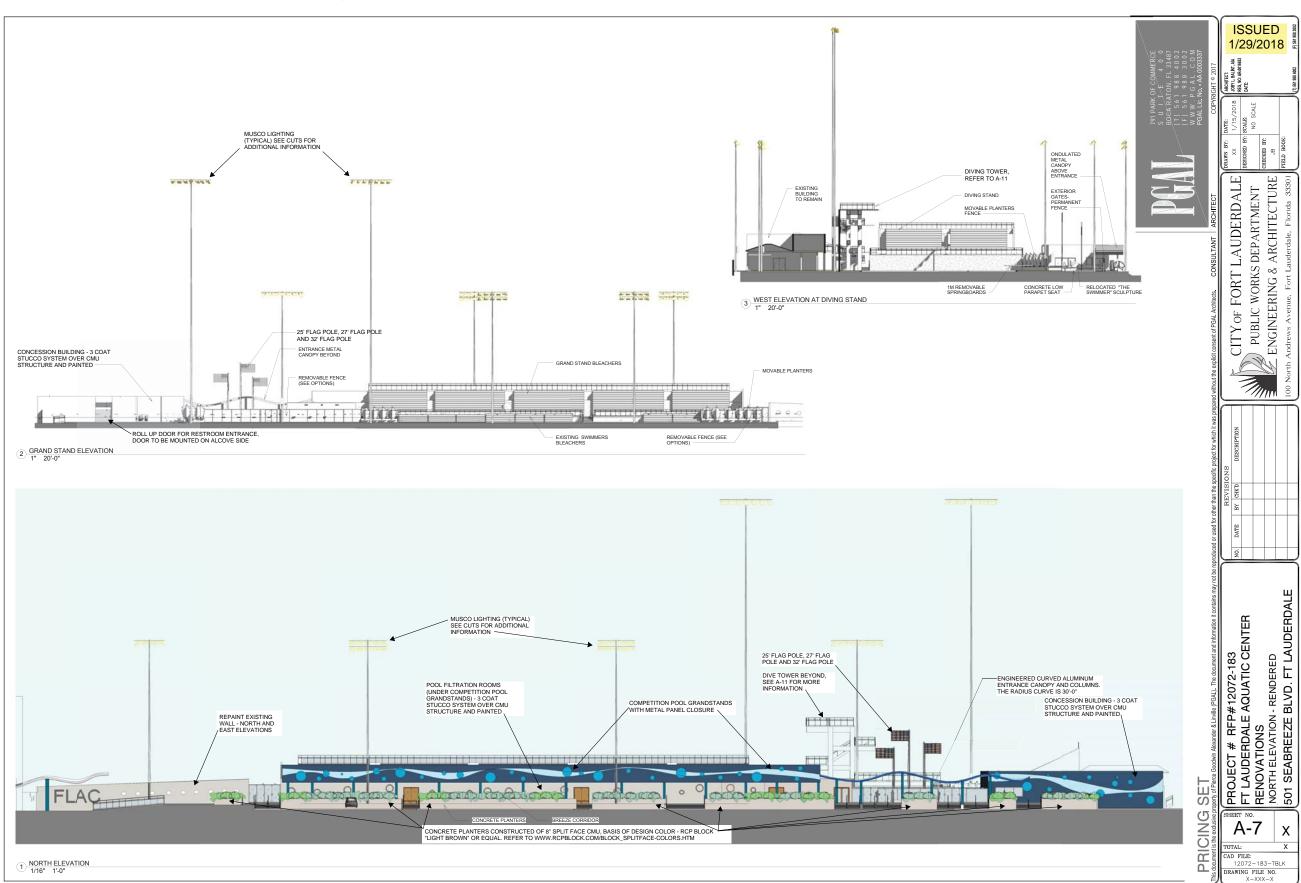


DESIGN DRAWINGS - A-6 - Enlarged Restroom / Concession Plan & Schedule

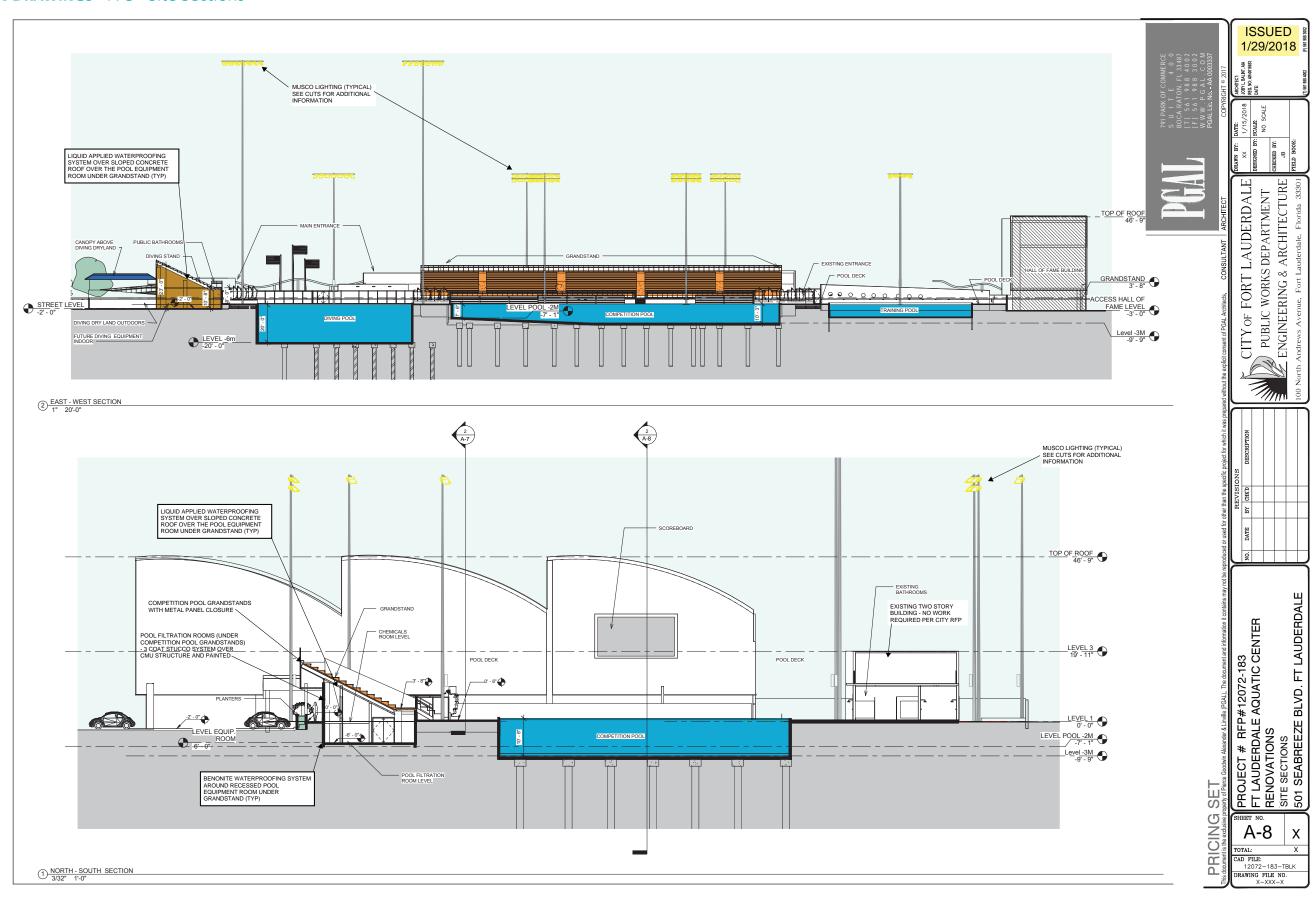




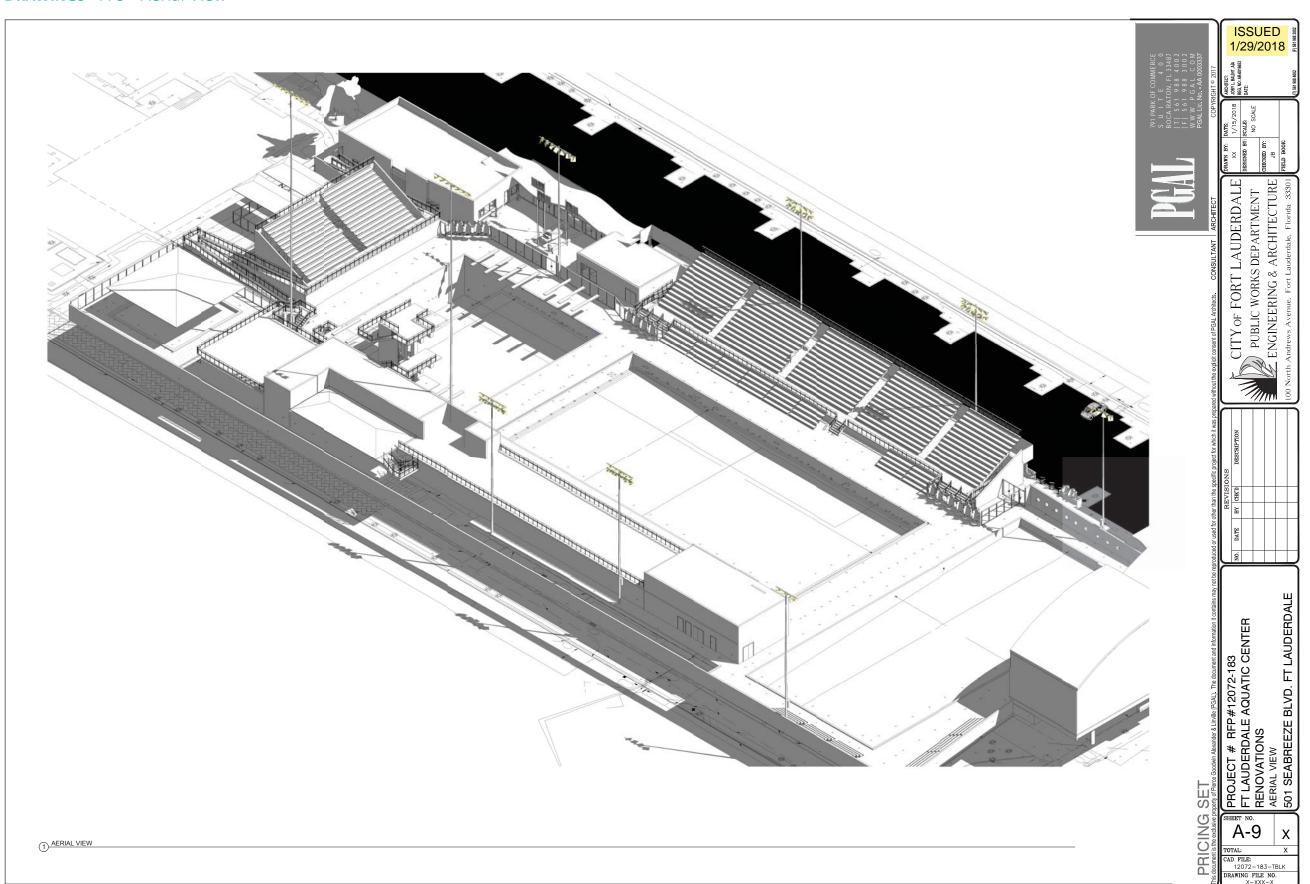
DESIGN DRAWINGS - A-7 - North Elevation Rendered / West & South



DESIGN DRAWINGS - A-8 - Site Sections

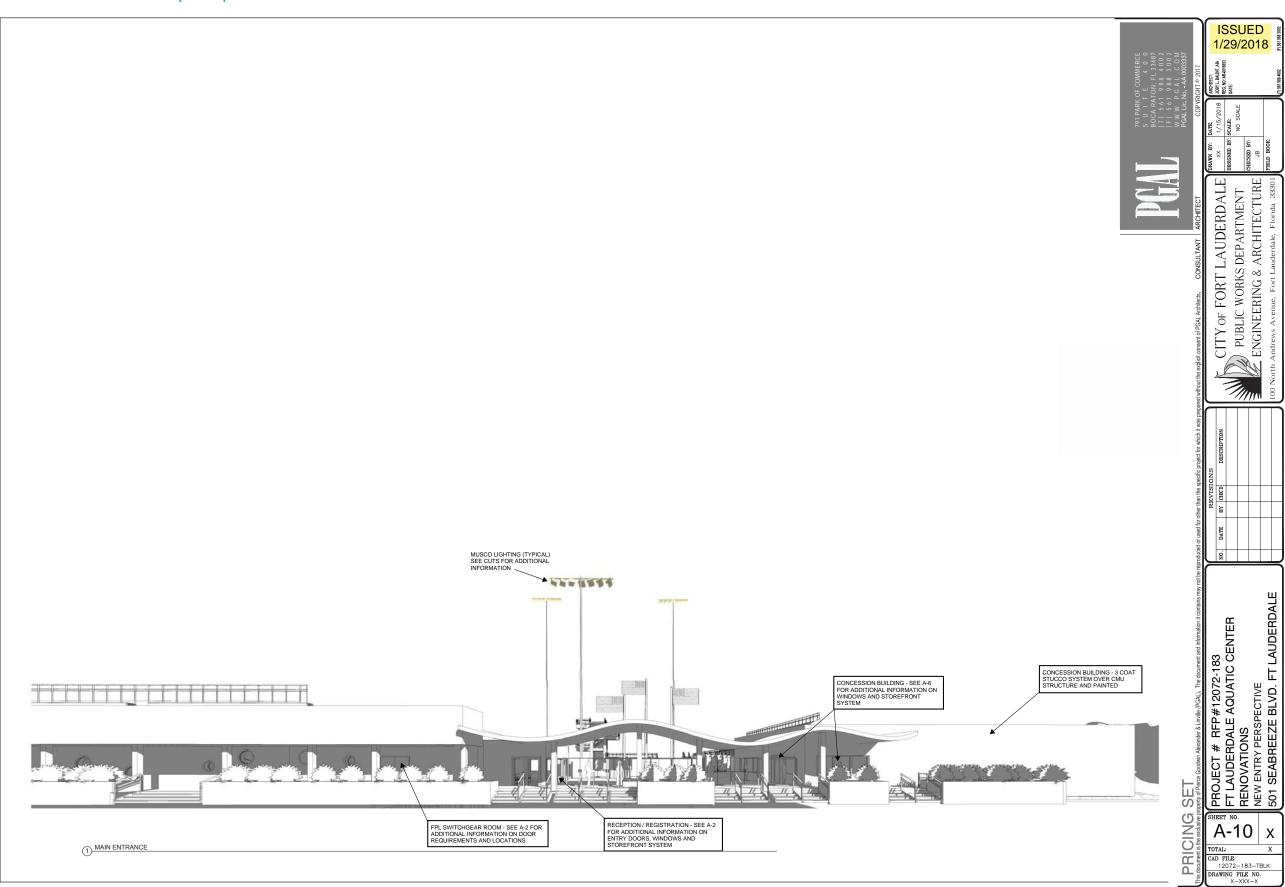


DESIGN DRAWINGS - A-9 - Aerial View

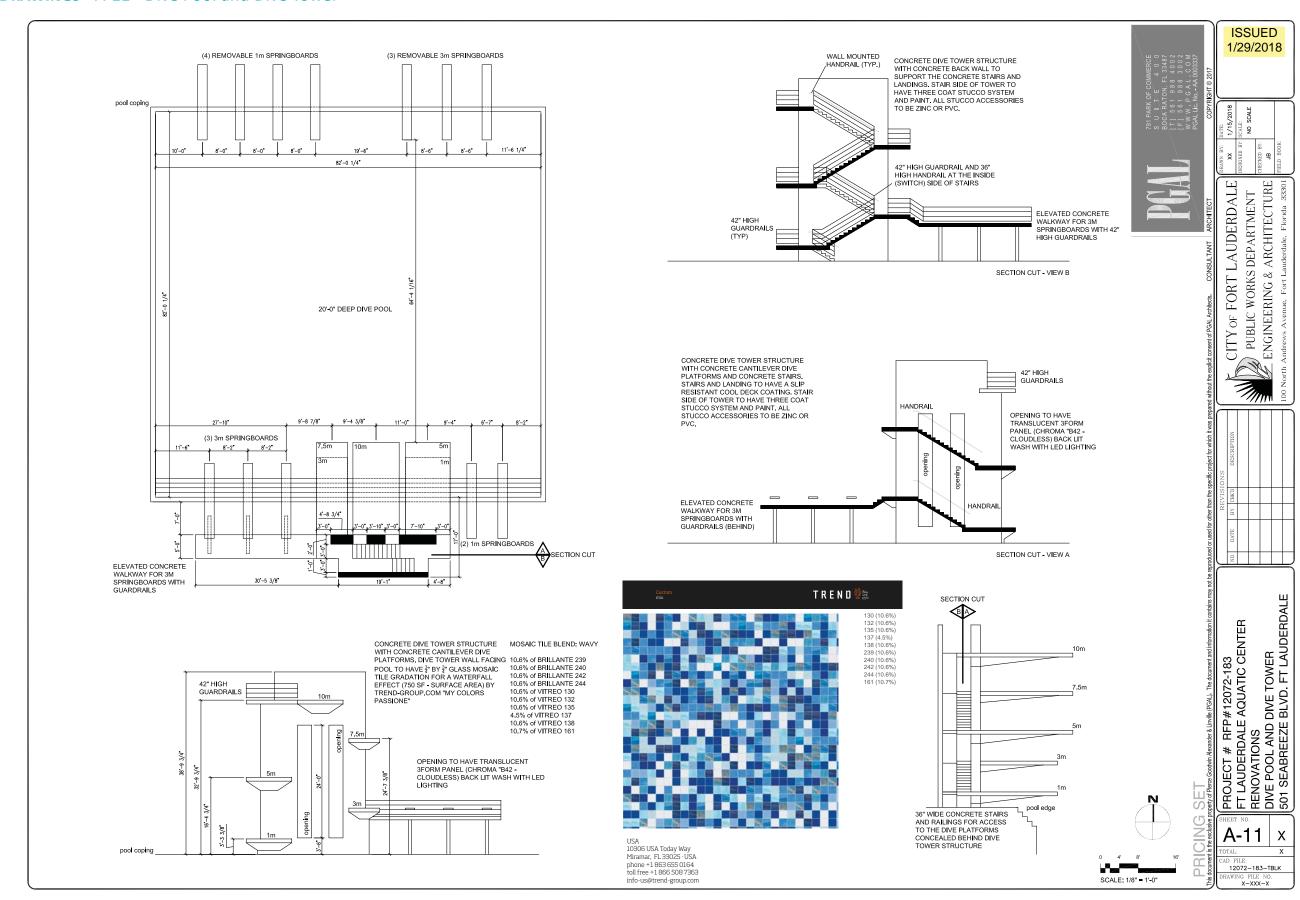




DESIGN DRAWINGS - A-10 - Entry Perspective

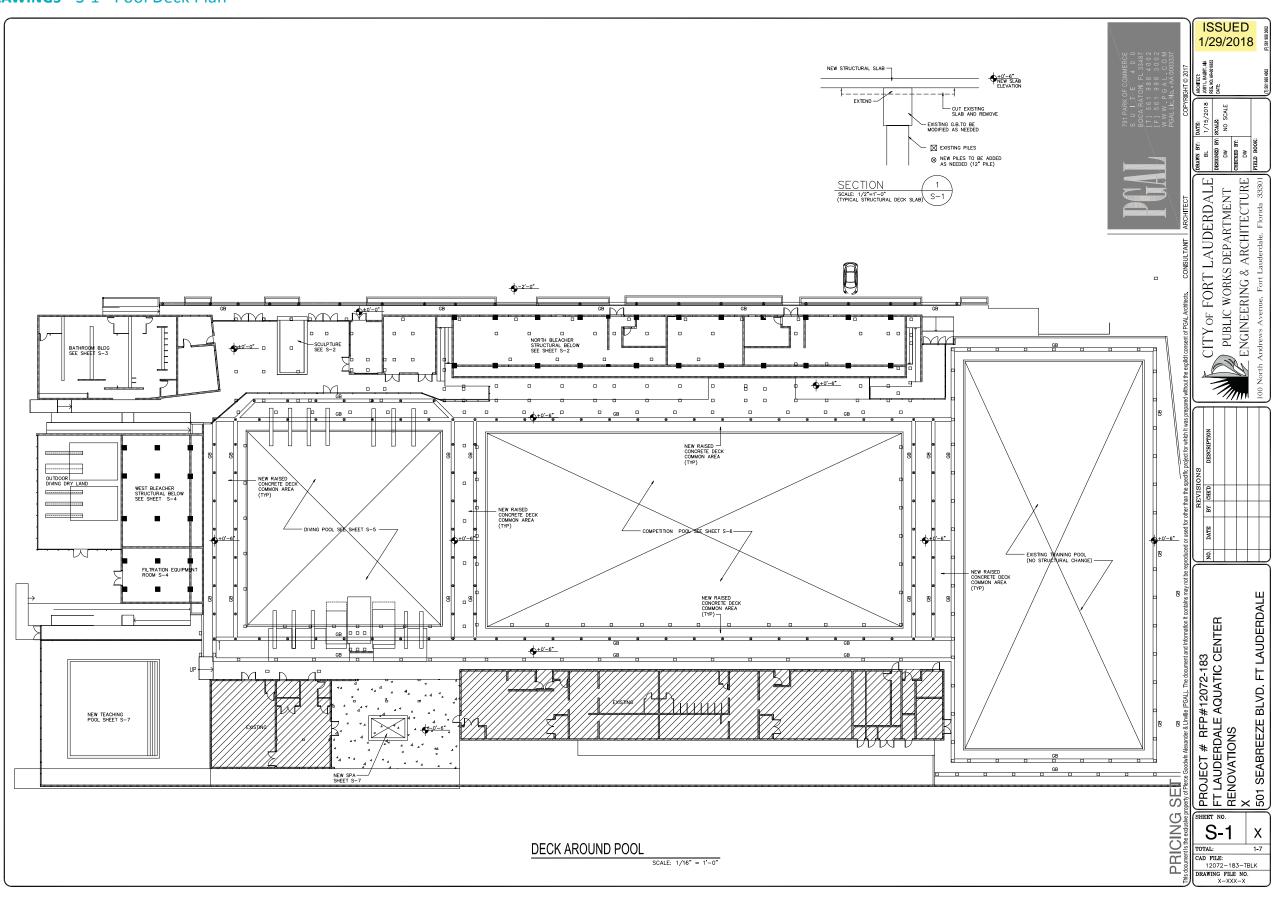


DESIGN DRAWINGS - A-11 - Dive Pool and Dive Tower



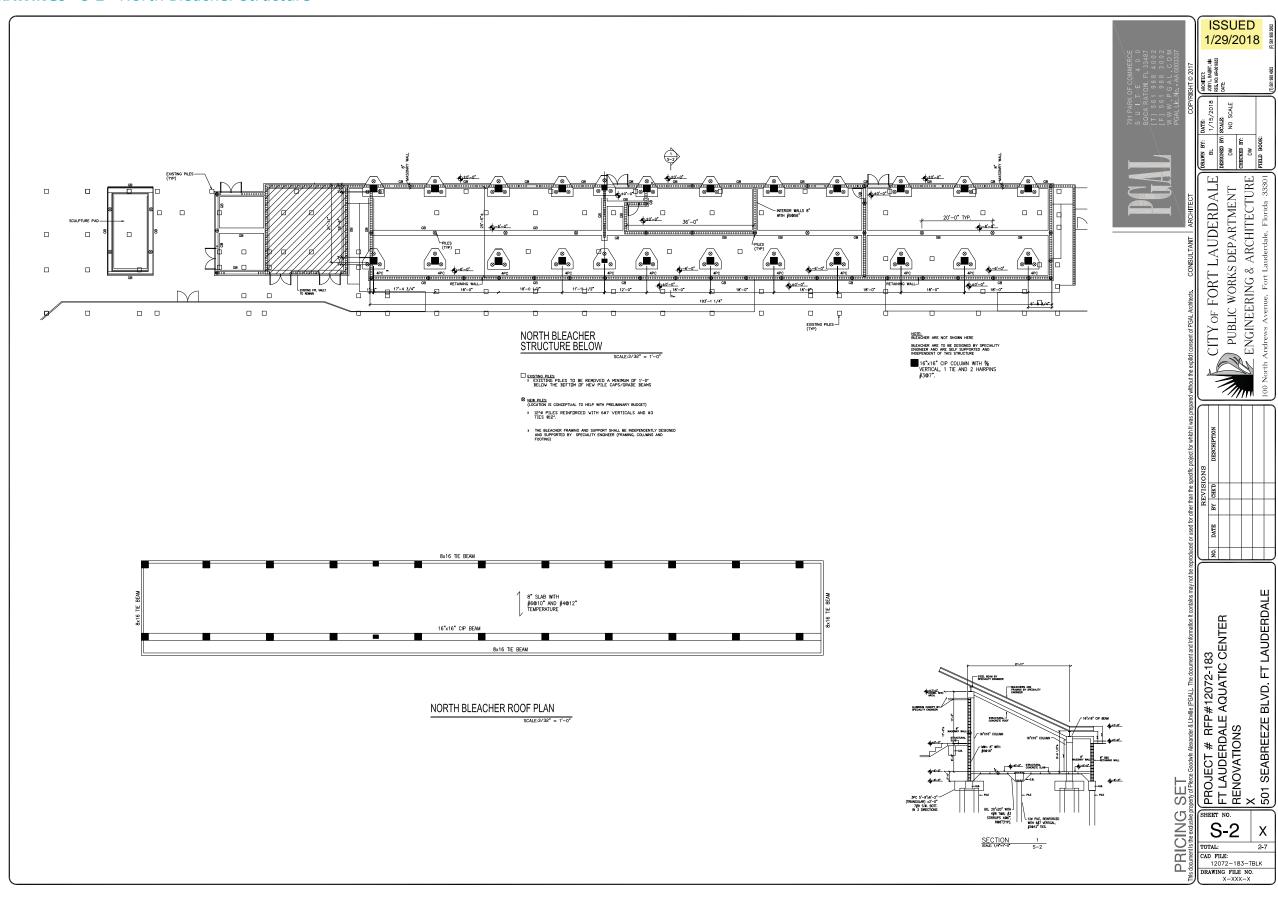


DESIGN DRAWINGS - S-1 - Pool Deck Plan

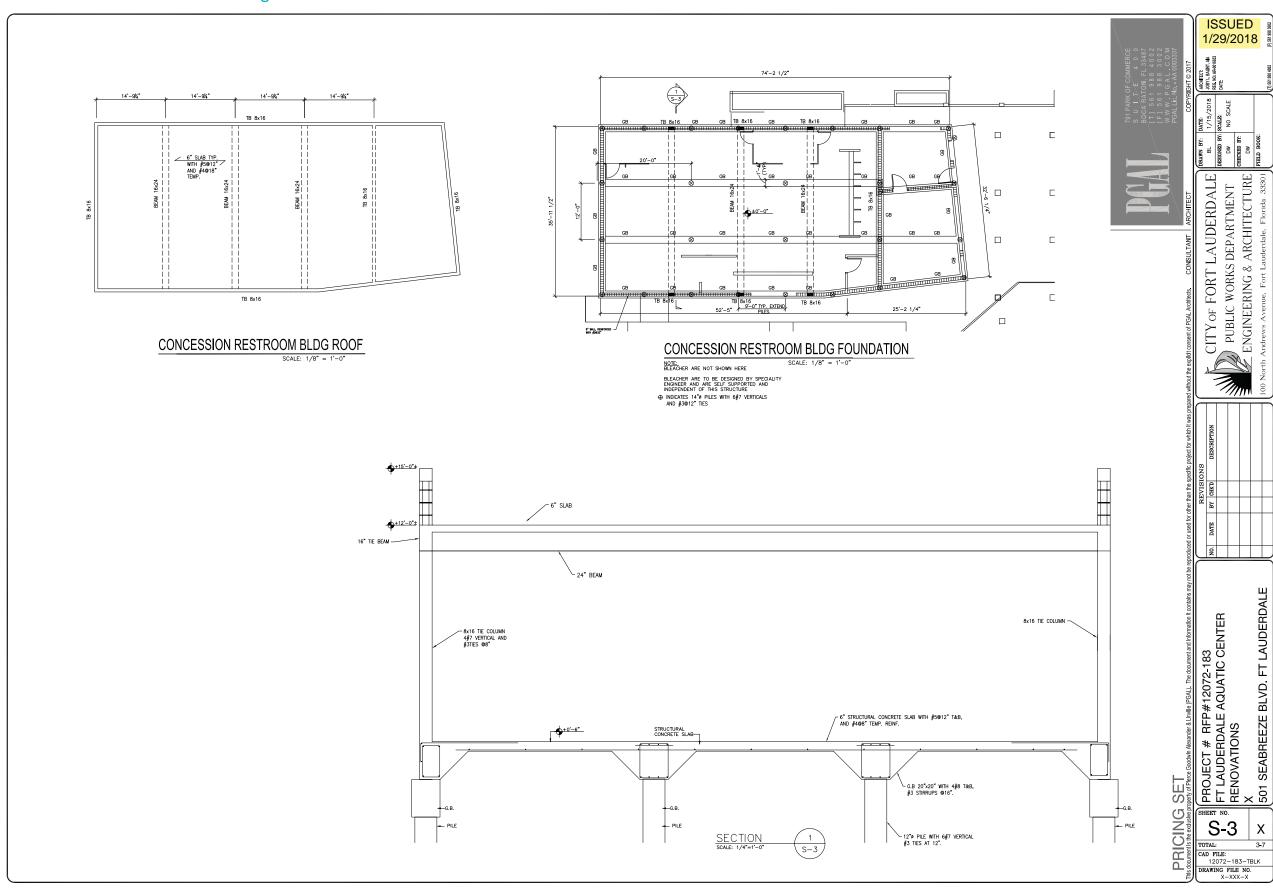




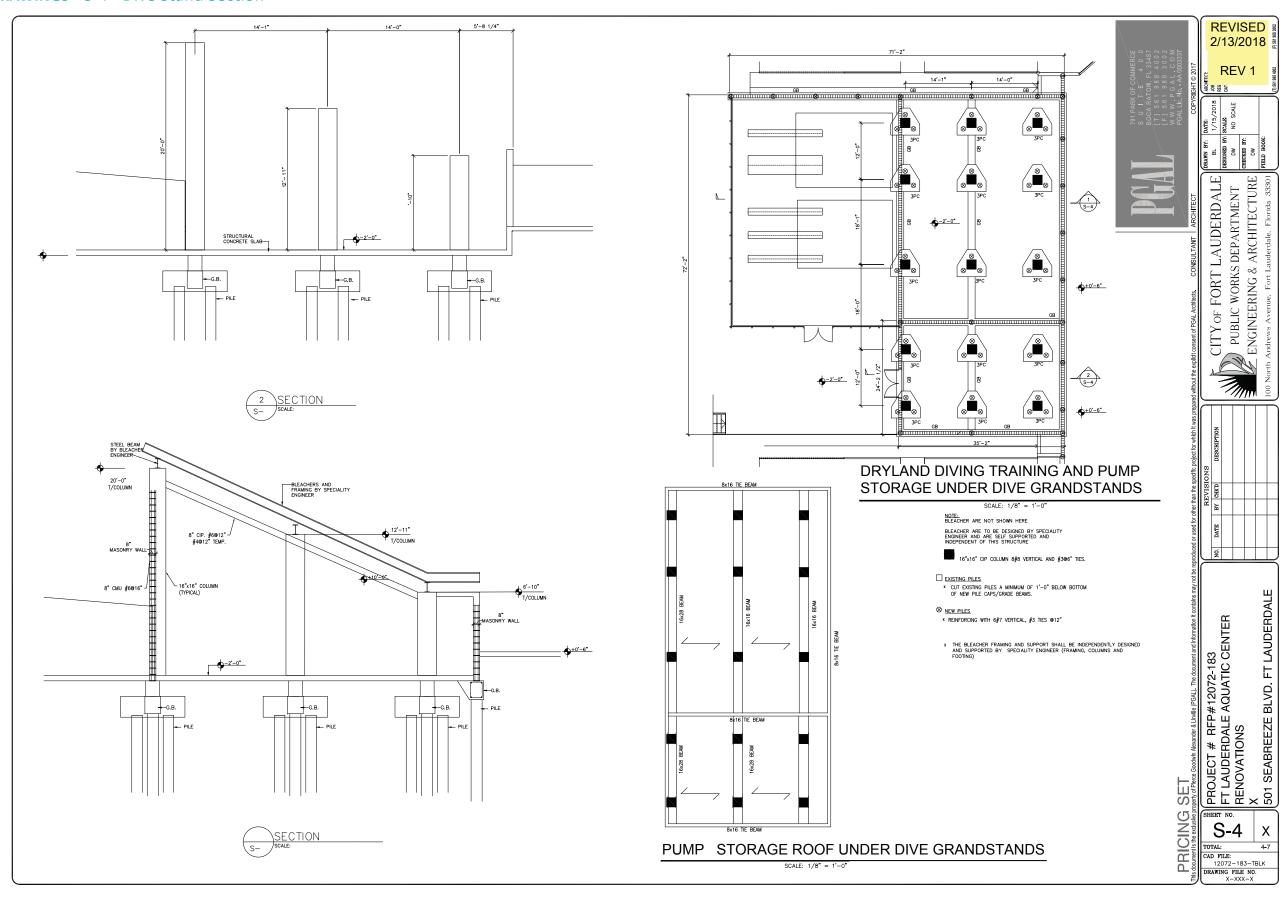
DESIGN DRAWINGS - S-2 - North Bleacher Structure



DESIGN DRAWINGS - S-3 - Concession Building

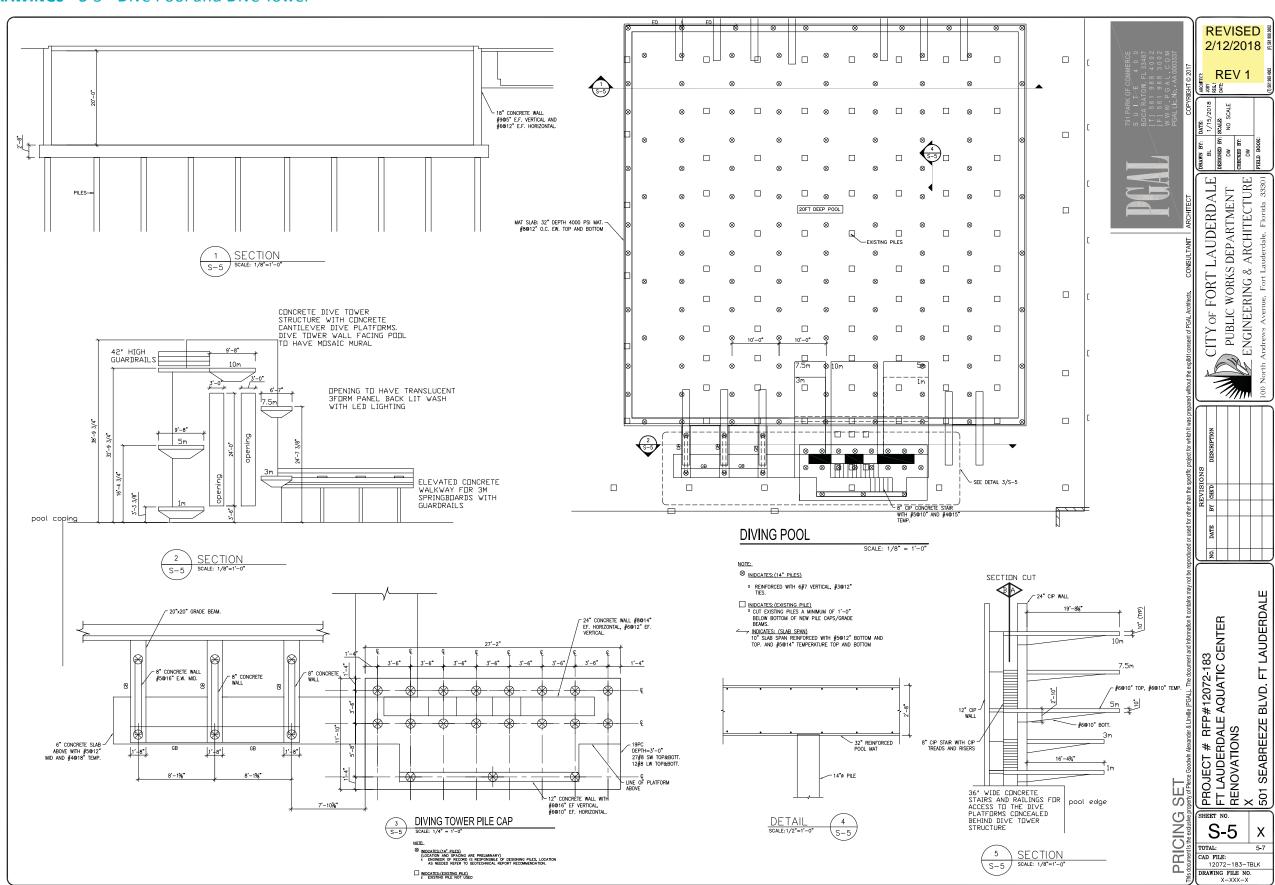


DESIGN DRAWINGS - S-4 - Dive Stand Section



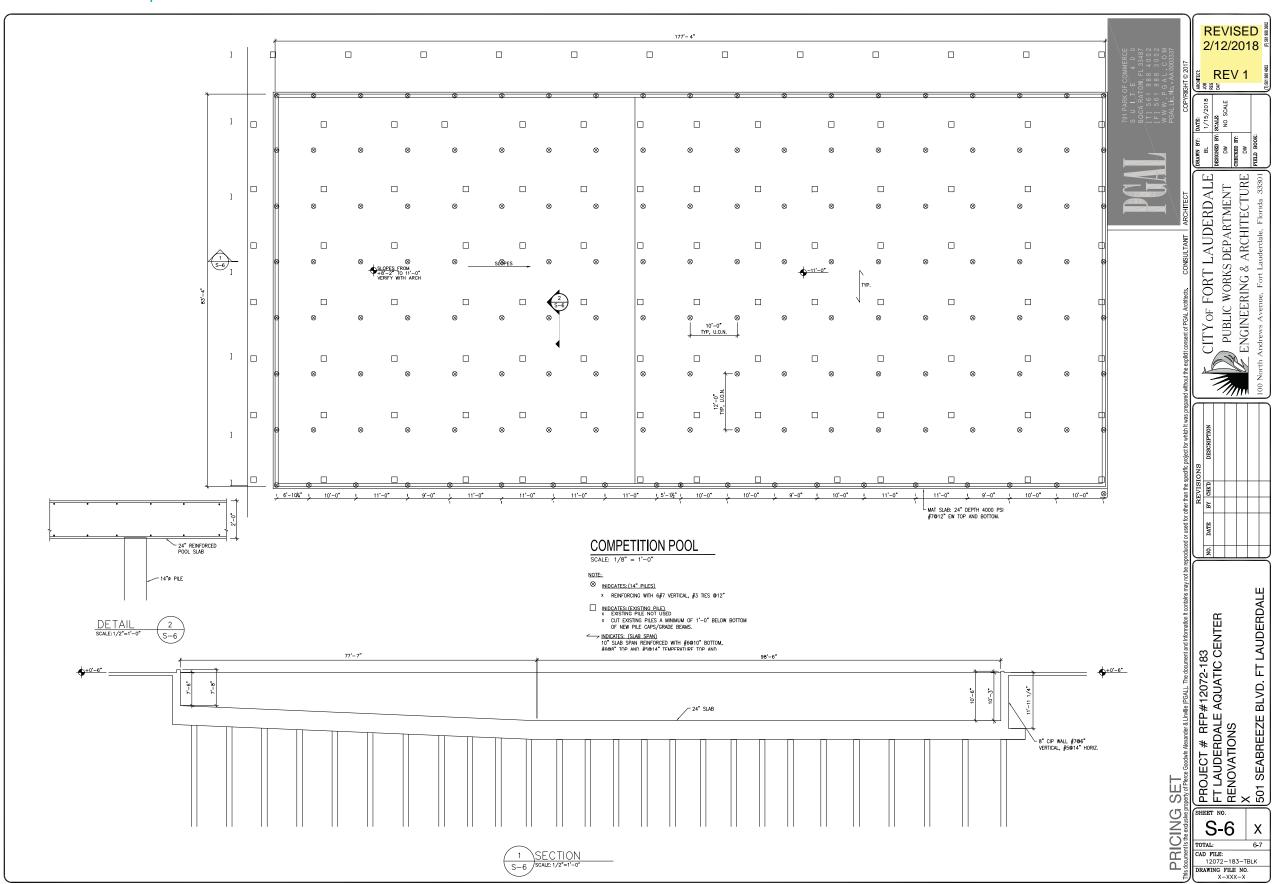


DESIGN DRAWINGS - S-5 - Dive Pool and Dive Tower

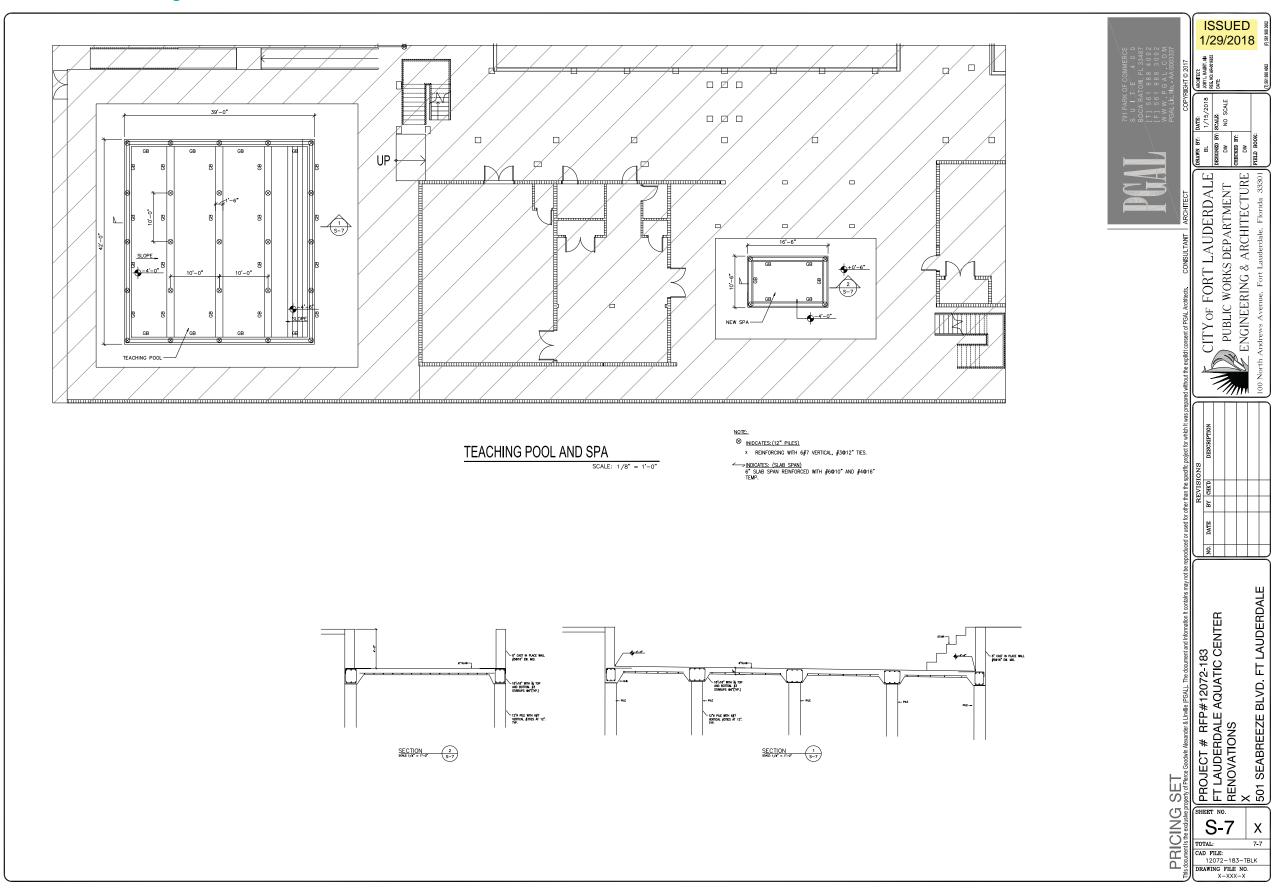




DESIGN DRAWINGS - S-6 - Competition Pool



DESIGN DRAWINGS - S-7 - Teaching Pool





DESIGN DRAWINGS - M-1.0 - Mechanical Notes and Schedule

HVAC NOTES, LEGEND AND SYMBOLS (SEMERAL NOTES ARE PROVIDED AS A BASIC DESCRIPTION OF THE EXTENT AND QUALITY EXPECTED IN THIS PROJECT, IF A CONFLICT EXISTS BETWEEN THESE GENERAL, NOTES AND THE REMAINDER OF THE CONTRACT DOCUMENTS THE SPECIFICATIONS, PLANS AND DETAILS WILL GOVERN.)

GENERAL NOTES:

- ALL MECHANICAL SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE NFPA STANDARDS, ANSI STANDARDS, THE LOCAL BULDING CODE, NOISE & HEIGHT ORDINANCES, PLANS AND SPECIFICATIONS.
- . ALL MATERIALS SHALL BE NEW AND ALL WORKDAMSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, PRODUCT APPROVAL, RULES AND ORDINANCES, ANY DIAMACD EQUIPMENT SHALL BE REPLACED OR RESTORED TO KORGNAL CONDITION.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, ACCESS PANELS, CONTROL SYSTEMS, DEVICES, PERMITS AND SERVICES NECESSARY FOR FURNISHING AND INSTALLING A COMPLETE OPERABLE MECHANICAL SYSTEM.
- . ALL LOUVERS, GRILLES, PIPING, ETC. SHALL BE PAINTED TO MATCH SURROUNDING COLOR AND TEXTURES AS REQUIRED BY ARCHITECT. VERIFY COLOR AND TEXTURE MIT ARCHITECT. PAINT ALL EXPOSED MECHANICAL EQUIPMENT WITH BENJAMIN MOCKE EPOXY EMAMEL 182.
- 5. THE CONTRACTOR SHALL PROVIDE PLASTIC OR ALUMINUM TYPE EQUIPMENT IDENTIFICATION LABELS FOR ALL MECHANICAL EQUIPMENT AS PER SCHEDULE TAGS. (SETON OR SMILAR)
- ALL CUTTING, PATCHING, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, AND WALL OPENINGS SHALL BE BY THE GENERAL CONTRACTOR. ALL OPENINGS IN BUILDING STRUCTURE, FOR DUCTNORK, PIPING, ETC. TO BE 1/2" LURGER (ON ALL SIDES) THEN THE OUTSIDE DIMENSIONS. FILL WODS WITH FIRE RETARDANT SLICONE FOAM (LE. CHASE-FOAM CTC PR-855 BY CHASE TECHNOLOGY CORP.).
- PROVIDE MAINTENANCE AND OPERATION MANUAL ON ALL MECHANICAL EQUIPMENT SUBSITIALS SHARL HAVE A SUMMATTALS ON ALL HAVE COUNTENT. STATEMENT OF THE PROVIDENT SHARLES SHARLES SHARLES TO SHARLES SHARL
- HVAC CONTRACTOR BILL WARPANTY ALL DESCHANCES, STEEDER, DUCTIONIK, AND ALL OTHER EXPERIENCES AND LARGY, ORDER THESE DRAWNINGS AND LARGY, ORDER THESE DRAWNINGS AND LARGY OF THE SECOND TO SERVICE OF THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRACES PROPER TO BOOK OWN DEPARTMENT ANY ECONOMIST. AR QUALITY SHOULD BE TESTED BEFORE OCCUPANCY AND SHOULD BE INSTRUMENTED AND MONITORED THEREAFTER, OR AT LEAST AT REGULAR INTERVALS

MECHANICAL EQUIPMENT NOTES:

- PROVIDE VIBRATION ISOLATORS ON ALL MECHANICAL EQUIPMENT AS CALLED FOR IN THE SPECIFICATIONS. IF NOT SPECIFIED, AS RECOMMENDED BY MANUFACTURER FOR QUIET OPERATION (WITH 99% ISOLATION EFFICIENCY).
- MOUNT ALL ROOFTOP EQUIPMENT (IF USED) FOR WIND LOADS AND MOUNTING HEIGHTS AS REQUIRED BY LOCAL CODES, ALL CURBS SHALL EXTEND 12" MIN. ABOVE FINISHED
- ALL PPINS AND DUCTHORK SHALL BE SLEEVED THRU WALLS, BEAMS, SLABS, ETC, AS REQUIRED AND COOKDINATED WITH THE STRUCTURAL ENGINEER, REMORK BAR JOST CROSS BRACHG AND PROVIDE NECESSARY TRANSITIONS AS REQUIRED FOR DUCTHORN INSTILLATION.
- FOR DUCHMORK INSTALLATION.

 ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

 ALL QUIDODE EQUENENT SHALL COUPLY WITH LOCAL ZOINIG MOSE ORDINANCES.
 MIN. REQUIREMENT SHALL NOT DIZED A MOSE LEVEL OF 85 DB AS MEASURED
 RADIALLY 30 F FROM THE COUPLEWENT IN ALL DIRECTIONS.
- AIR DISTRIBUTION/DUCTWORK NOTES:
- 3. ALL DUCTWORK WHERE ALLOWED BY LOCAL CODES AND CEILING RATING SHALL BE I LOW PRESSURE DUCT, SEAL CLASS C AND AS FOLLOWS.

- BE IT UNIT PRESIDENCE DUCT, SALL CLASS C. AND AS FOLUMES.

 A. EXHAUST AN BOUTTORN F. ALLIANMA SETEMETAL.

 B. MAKE-IP AR DUCTORN F. ALLIANMA SETEMETAL.

 C. SUPPLY AND DETENS DUCTORNS IN THE STORAGE AREA SHALL BE EXTERNALLY INSULATED (R-4). CALVANEZO SPETIMETAL.

 D. DUCTORNS REALIANTO F. REFER TO DOIS SCRION 15290.

 E. THE LINGTH OF FLERIBLE DUCT MIST BE 6 FT MINMAIN TO 10 FT MAXIMAL ALTING LIGHT.
- 4. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA" STANDARDS AND LOCAL BUILDING CODES.
- i. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. SEAL ALL DUCTS, JOINTS AND SEAMS IN AN APPROVED MANNER AND INSURE AGAINST LEAKAGE.

TESTING AND BALANCING NOTES:

- T & B CONTRACTOR SHALL VISIT JOB SITE DURING THE EARLY STAGES OF CONSTRUCTION TO ENSURE HAT ALL DUCTS, VOLUME DAMPERS, OPPOSED BLADE DAMPERS, ETC. ARE INSTALLED FOR PROPER BALANCING MAD QUIET AIR DELIVERY,
- A REPORT SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER LISTING ANY DEFICIENCIES FOUND AND MAKING RECOMMENDATIONS FOR WORK TO BE PERFORMED OF DEVINES TO BE ADOLD TO ALL OW FOR DEPORTE BUT MAKING TO BE PERFORMED. NOFERIDENT CONTRACTOR SHALL TEST AND BANKE ALL MECHANICAL EQUIPMEN AR DEVICES EXTRACTORS, DAMPERS, AND & FAN RATES, ETC. TO PROVIDE THE DESIGN OWNITTES AS SHOWN ON THE PLANS OF SCHEDULES PROVIDE T B BEPORT IN ACCORDING WITH THE ARE PLANCE COUNCE, STANDARDS, PROVIDE PIREL BANKHONE FOR ALL SYSTIBLES TO SATISFACTION OF OWNER PROVIDE PIREL BANKHONE FOR ALL SYSTIBLES TO SATISFACTION OF OWNER

FAN SCHEDULE | Mark | MODL NA | MODL NA

ACCESSORES/REMARKS

1. BOTRO ACCESS FROM INTERIOR OF BRADING.

2. CONFIGU-VM---BEDT REMPTE DUL FOR RECOR WALL WOMTHING. 12. STANLESS STEEL SMAFT.

1. STANLESS STEEL SMAFT.

1

GENERAL FAN NOTES:

PRIVACE MOTOR SHATTER, BECOMECTS AND ALL ASSOCIATED CONTROLS.

PRIVACE MOTOR SHATTERS, BECOMECTS AND ALL ASSOCIATED CONTROLS.

PRIVACE MOTOR THE ALL PRIVACE PRIVACE AND ALL ASSOCIATED CONTROLS.

PRIVACE MOTOR THE ALL PRIVACE PRIVACE AND ALL ASSOCIATED CONTROLS.

PRIVACE MOTOR TO ASSOCIATE OF 5550 AS MEASURED ANALYL 15 FT.

ON THE CONTROLS AND ALL PRIVACE PRIVACE PRIVACE PRIVACE AND ALL PRIVACE PRIVA LEGEND AND SYMBOLS

CO	CO SENSOR
NO2	NO2 SENSOR
→	SUPPLY AIR (DIRECTION OF THROW) RETURN AIR/EXHAUST AIR
	NEW DUCTWORK
— — B00	BACK DRAFT DAMPER
L	MANUAL VOLUME DAMPER
	MOTOR CONTROLLED DAMPER
MCD	MOTOR CONTROLLED DAMPER
EF	EXHAUST FAN
WMS	WIRE MESH SCREEN
OAL	OUTSIDE AIR LOUVER
EAL	EXHAUST AIR LOUVER

NOTE: HVAC LEGEND IS PROVIDED AS A GENERAL REFERENCE. SOME SYMBOLS SHOWN MAY NOT PERTAIN TO THIS PROJECT.

		LO	UVER SCHI	EDULE						
SYMBOL	USE	TYPE	DESIGN MANUFACTURER & MODEL NO.	REMARKS	ACCESSORIES					
EAL/ OAL	EXH./INTAKE AIR LOUVER	LOUVER	GREENHECK EHH-601D	FLORIDA PRODUCT APPROVAL NO.: FL100088.1 NOA NO.: 12-0830.08 EXP. DATE: 11-1-17	WWS					
NOTES: 1. 2.										

STANDARD DUCT SEALING REQUIREMENTS APPLICABLE STATIC PRESSURE CONSTRUCTION STANDARD ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS 4" WG AND UP (1000 PA) ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS ONLY 3" WG (750 PA) TRANSVERSE JOINTS ONLY 2" WG (500 PA)

TESTING AND BALANCING NOTES

- AR DESTRIBUTION SYSTEM TESTING, ADMISTING AND BRAMANING SHALL BE PERFORMED.
 ACCOUNTY OF THE PROPERTY OF THE PR IN COOLING OR HEATING CAPACITY.

 COOLING OR HEATING SYSTEM CAPACITIES OF 65,000 BTUH OR LESS ARE EXCENPT FROM
 THE TEST AND BALANCE REQUIREMENT LISTED IN THE CODE.

ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCESSANCE WITH GENERALLY ACCEPTED DEMONSTRAIN STREAMED BETTER BETTER OF THE SOCIETY OF STREAMED BY BETTER BETTER OF THE SOCIETY OF SOCIETY OF THE OWNER ACCOUNTS OF THE OWNER ACCOUNT

UPON CONSTRUCTION COMPLETION, ALL REUSED MECHANICAL SYSTEMS SHALL BE REBALANCED. ALL GRILLES IN SERVED AREAS SHALL BE BALANCED TO ACHIEVE REQUIRED DESIGN VALUES.

MECHANICAL INDEX

M-102 MECHANICAL DETAILS

- CONTRACTOR SHALL SUBMIT 6 COPIES OF COMPLETED SHOP DRAWINGS, TOGETHER AT ONE TIME AND MUS COME THROUGH THE ARCHITECT. ALL SUBMITTALS SHALL BE MADE WITHIN 30 DAYS OF NOTICE TO PROCEFT.
- . ALL SUBMITTALS MUST CLEARLY INDICATE EXACTLY WHICH ITEMS ARE BEING PROPOSED FOR USE. IF NOT, THE SUBMITTAL SHALL BE REJECTED.
- SUBSTITUTIONS SHALL BE LIMITED TO ONE OF THE ALTERNATES LISTED IN THE CONSTRUCTION DOCUMENTS PRODUCTS CONSIDERED TO BE EQUAL SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER, ARCHITECT AND OWNER (10) DAYS PRIOR TO BID DATE.
- THE CONTRACTOR ASSUMES ALL DESIGN RESPONSIBILITY AND ALL FINANCIAL RISKS FOR PROCEEDING PRIOR TO SHOP DRAWINGS PROCESSING, AND ON ANY ITEM OR WORK THAT IS AT VARIANCE TO THE CONSTRUCTION DOCUMENTS.
- SHOP DRAWINGS AND SUBMITTALS FOR EACH ITEM SHALL BE REVIEWED NO MORE THAN TWICE. A THIRD SUBMITTAL ON AN ITEM MUST BE ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR OR IT SHALL BE REJECTED.
- SPIGLE & RESENTED.

 CIRCUMSTANCES INCRESSITATING A REVISION TO THE PERMITTED DOCUMENTS NOT PROCESSED PRIOR TO INSTALLATION MAY NOT BE ACCEPTED. IF ACCEPTED IT MUST BE LEGBLE, ACCURATE AND ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR. THE REVISION SHALL BE CHARGED TO THE CONTRACTOR ADD DELIVERED TO HIM ON A C.O.D. ABISS.
- SUBSTITUTIONS FROM THE BASE DESIGN OR VARAITIONS TO THE PERMITTED CONTRACT DOCUMENTS, WHETHER RESULTING FROM PROCESSED SHOP DRAWNINGS OR DOT, THAT RESULT IN REQUIREMENTS IN LETTERS OF AUTHORIZATION AND/OR FREMIT CONTRACT DOCUMENT CHANGES AMMADITED BY THE AUTHORITY HANNOL JURISDICTION WILL NOT BE WADE BY THIS OFFICE UNLESS ACCOMPANIED BY A PRICINGHE CRIEF FROM THE CONTRACTOR, AND RELEASED ON A C.O.D. BOAT
- CONTRACTOR SHALL SUBJUT 5 COPIES OF EQUIPMENT LYDUTS OF ALL ELECTRICAL SPACES, ROOMS, CEC. 10 THE PROMOREES FOR APPROVAL PRIOR FOR OCRESSING COMPAGET OR INSTALLIAL COMMUNIST. CIT ITELL APPOINTS SHALL CONSIST OF PLAN VIEWS AT A SCALE OF $1/2^* = 1'0^*$ AND ELEVATIONS FOR EACH SUCH SPACE OR ROOM, ETC.

COORDINATION NOTES

1. A/C CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS WORK FOR SZZ. LOCATION, CLEARANCE, ACCESS AND ELECTRICAL CHARACTERISTICS WITH ALL OTHER DISCUSS. AND THOUGH SHOP DOMINIONS TO THE DOWNERS FOR RECOVER BETWEEN STRUCTURE CLEARION & REQUIRED EQUIPMENT ACCESS AREAS.

STRUCTURE CLEARION & REQUIRED EQUIPMENT ACCESS AREAS.

LOWER CLEAR CONTRACTOR CLEAR CONTRACTOR DOWNINGS ARE NOMINIAL DIMENSIONS ONLY AND ALL DUCT, PEC OR EQUIPMENT PENETRATIONS SHALL BEST SECTION OF RE RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS SHALL BE SELECTED AND FOR RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS AND THE SELECTED AND FOR RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS AND THE SELECTED AND FOR RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS AND THE SELECTED AND THE RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS AND THE SELECTED AND THE RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS AND THE SELECTED AND THE RATTER AS RECOVERED, AUGUST OFFICIAL TOPICS AND THE SELECTED AND THE RATTER AS RECOVERED. AUGUST OFFICIAL TOPICS AND THE SELECTED AND THE RATTER AS RECOVERED. AUGUST OFFICIAL TOPICS AND THE RATTER AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AND THE RATTER AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AND THE RATTER AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AND THE RATTER AS RECOVERED AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AS RECOVERED AS RECOVERED AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AS RECOVERED AS RECOVERED AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AS RECOVERED AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AS RECOVERED AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AS RECOVERED AS RECOVERED AS RECOVERED. AUGUST OFFICIAL TOPICS AS RECOVERED ES ALEXAL AND PER RATED AS REQUIRED, ADJUST OFENNAS:

A. CORROWANT COLORINO OF CEUBLO PRISSERS, GRILLS AND REGISTERS IN THE FIEL
WITH LIGHTS, SPRINCIPS AND ARCHITECTURAL ELEMENTS.

A. CORROWANT COLORINO OF ACC UNITS, REPRIASTAST, PARS AND DUCTHORS WITH
BULDION STRUCTURE AND OTHER TRACES SO THAT NO INTERFERENCES OCCUR.

S. IN GENERAL, DUCT OFFSETS HAVE ONTO BEEN SHOWN, A/C CONTRACTOR TO
COORDINATE THESE AS REQUIRED. 7. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.

REQUIREMENTS FOR BID SUBMITTALS IF CONTRACTOR DECORE TO SUBBIT A DIFFERENT EQUIPMENT MANUFACTURER—MODEL. SUBSTITUTION SHALL ASSURE EQUAL OR BETTER EMERGY AND INDOOR ENVIRONMENTAL PERFORMANCE WHEN COMPARED TO THE EQUIPMENT SPECIFIED ON THE ORIGINAL CONSTRUCTION DISCOLUBING.

DESTRUCTION DESTRUCTION SHALL ALSO BE CONSISTENT WITH THE FOLLOWING REQUIREMENTS:

- ARE FLOWS
- LECTRICAL DATA
- WIGHT
- WIGHT

Would T
 Any special note or accessory listed on schedules
 NO cost impact

MINI SPLIT SYSTEM SCHEDULE

- A. REFRICERANT PPING: SHALL BE TIPE L SOFT DRAIM, COPPER TUBING, DEHYDRATED FOR REFRIERANT USE. SIZED AS SHORM ON DRAIMINGS OR AS PER AIR CONCENTIONING COUMPANT MANUFACTURES'S ECOMMISSIONICS.

 9. PÓWER FOR DFAC-1,2,3,4 PROVIDED BY (DFCU-1,2,3,4) UNIT.
- PER AIR CONDITIONING COUPRIENT MAINTACTHEES'S RECOMMENDATIONS.

 BINDLATED MITH 3/4" THICK TOWNED PLASTIC INSULATION REPRESENTATION FROM AND AIR CONTROL PROPERTY AND AIR CONTROL PROPERTY ASSESSMENT, NO SHAD WHAT SHAD AIR CONTROL ON PROPERTY ASSESSMENT, NO SHAD AIR CONTROL PROPERTY ASSESSMENT, NO SHAD AIR CONTROL PROPERTY AND GREY TAPE.

 PROVINCE OWNER WITH ALL PRESENTATION CONTROL PROPERTY AND CONTROL PROPERTY AND CONTROL PROPERTY AND CONTROL PROPERTY AIR CONTROL PROP

٠.	ALLOW UNITS TO FUNT	ION PROPERLY AS PE	R MANUFACTURER RECOMME	ENDATIONS.	. FORFOSES AND IC

					Е	ENER	GY I	REC	OVE	RY ۱	/EN	TIL	ATOF	1											All	RDISTRIB	IUTION SCHEDL	ILE	
Т.	IARK	SELECTION BASE		LOCATION	VOLTAGE	MCA	MOCP			DUTDOOR						SUAHK3						WHEE	CY	SYMBOL	USE	TYPE	DESIGN MANUFACTURER	REMARKS	ACCESSORIES
Ι,	IAKK.	MAKE	MODEL NO.	LUCATION	TOCINGE	(AMPS)	(AVPS)	(LB.)	VOLUME	(IN WC	FRPM	MOTOR	DRIVE EAT	LAT	VOLUME (CFM)	(IN V	(c) FRP	M MOT	OR DRIVE	EAT	INI		·	STMBUL	USE.	TIPE	& MODEL NO.	NEMANN3	AUGESSUNES
E	RV-1	GREENHECK	ECV-30H	RESTRMS	208/60/1	19.9	30		2650	0.50	1005	1.5	DIRECT 91/	79 79/6			0 144			T 80.9		49.4		OAL	O/A INTAKE LOUVER	LOUVER	RUSKIN EME520MD		BIRD SCREEN
E	RV-2	GREENHECK	ECV-20H	RESTRMS	208/60/1	11.8	15		1450	0.50	1070	3/4	DIRECT 91/	79 79/6	7 1450	0 1.0	136	2 1.5	DIREC	T 80.9	•	53.7		-	EXHAUST		DALUZUAD		
Г	GENE	RAL ERV N	OTES:																					EG	GRILLE	GRILLES	4FL		
1.	PROVIDE MOT	OR STARTERS AND DISC KORAFT FOR EXHAUST S OPENINGS WITH STRUC	ONNECTS AS REQUI	RED.		8	PROVE	E BIRDSOF	REEN ON .	ALL INLET	S AND O	JTLETS.			3. PROVID	E MOTOF	NZED CC	ONTROL	DAMPER.					RG	RETURN GRILLE	GRILLES	4FL		
3. 4. 5.	FIELD ADJUST COORDINATE SEE GENERAL	OPENINGS WITH STRUC MTH ELECTRICAL CONTR , AIR CONDITIONING, DU D ITEMS.	TURE. ACTOR BEFORE BID TWORK, AND COOR	DING OR ORDER DINATION NOTES	ING ANY EQUIP	JENT.). ERV'S WHEN WHEN	SHALL BE BUILDING I BUILDING I	CONTROL IS IN OCC IS IN LINO	LED BY B	MS DE, ERV'S MODE, FR	SHALL VS SHA	OPERATE.	ATE.										CD	SUPPLY AIR	DIFFUSERS	TITUS 250-AA		
6.	PROVIDE COR	ED ITEMS. ROSION RESISTANT FAST FORY FAN MOUNTING SU	ENERS.			11	I. ASSOC	iated mot T and Cl Ized Dame	rorized d OSF Lipon	NAMPERS S N DEACTIV LL FAIL O	SHALL OP	UNIT.	N ACTIVATIO	N											ND HVAC CONTRACTOR JCT MOUNTED VOLUME		H AND COLOR OF ALL AIR DISTRIBUT LANCE.	ON PRODUCTS PRIOR T	ORDERING.

															SPLI	T SY	STEM :	SC	HEDUL	Æ												
				AIR	l H	AND	ш	VQ U	NIT									All	COOLE	00	NDE	NSING	3 UP	ar .					SYST	EM DA	TA	
MARK	AREA	MODEL	CFI	и	ESF	P FAI	N	HEATE	R	WT	П		AHU	Ditt	IMENSIONS	MARK	MODEL.	WT	ELECTRICAL	00	MPRESS	OR		AN	UNIT	MAX	CAPAC	ITY	SEER	REF.	LINES	DINENSIONS
	SERVED	NO.	TOTAL	. OA	186	G HF	K	W @240	STEP	LBS	MCA	FUSE	VOLTS-PH-I	HZ L	XWXH	1	NO.	LBS	VOLTS-PH-HZ	QTY.	RLA	LRA	QTY	FLA	MCA	FUSE	TMBH	SMBH	1	SUCTION	LIQUID	LXWXH
AHU-1	WOMEN RESTRM	CARRIER FV4CNB006	1600	-	1.0	3/	4	10	1	207	53.8	60	208-1-60	22	X 25 X 60	CU-1	24ACB748-3	277	208-1-60	1	21.2	96	1	1.3	27.8	40	49.1	36.2	17.0			35 X 35 X 40
AHU-2	MEN RESTRM	CARRIER FV4CNF003L00	1000	-	1.0	1/	2	5	1	150	5.4	15	208-1-60	22	X 22 X 54	CU-2	24ACC630A003	204	208-1-60	1	12.8	64	1	0.70	16.7	25	28.14	20.52	16.0			32 X 32 X 34
SPLIT SYSTEM NOTES 1. OUTDOOR DESIGN CONDITIONS: 94198 – 67198 (MAM, FL). 2. PROUGH ACL INITS WITH PROGRAMMAR FL COOL INCAFE THIS THE FRANCISTAT CONTROLS. 5.								PROVID MANUF	E LONG-LINE AC) 250 FT. E PROPER VIBRA ACTURER'S RECOI TE REFRIGERANT	TION IS	SOLATORS AS PE	er isola	TION	DANT			9. IN 10. P 11. P 12. P	STALL (ROVIDE ROVIDE ROVIDE	FILTER RACK CHEMICAL DR BUILT-IN DIS AUXILIARY O HURRICANE	YER AND CONNECT ONDENSAT TIE-DOWN	STRAINI WITH A TE FLOA KITS FI	ER IN REFR LL AIR HAN T SWITCH. OR CONDEN	dung un Sing unit	ITS.								



ISSUED 1/29/2018 ARCHITE JOBY L. REG. NO JATE: HA
DESIGNED BY:
CHECKED BY:
HA S DEPARTMENT ARCHITECTURE LAUDERDALE

CITY OF FORT L.

PUBLIC WORKS D.

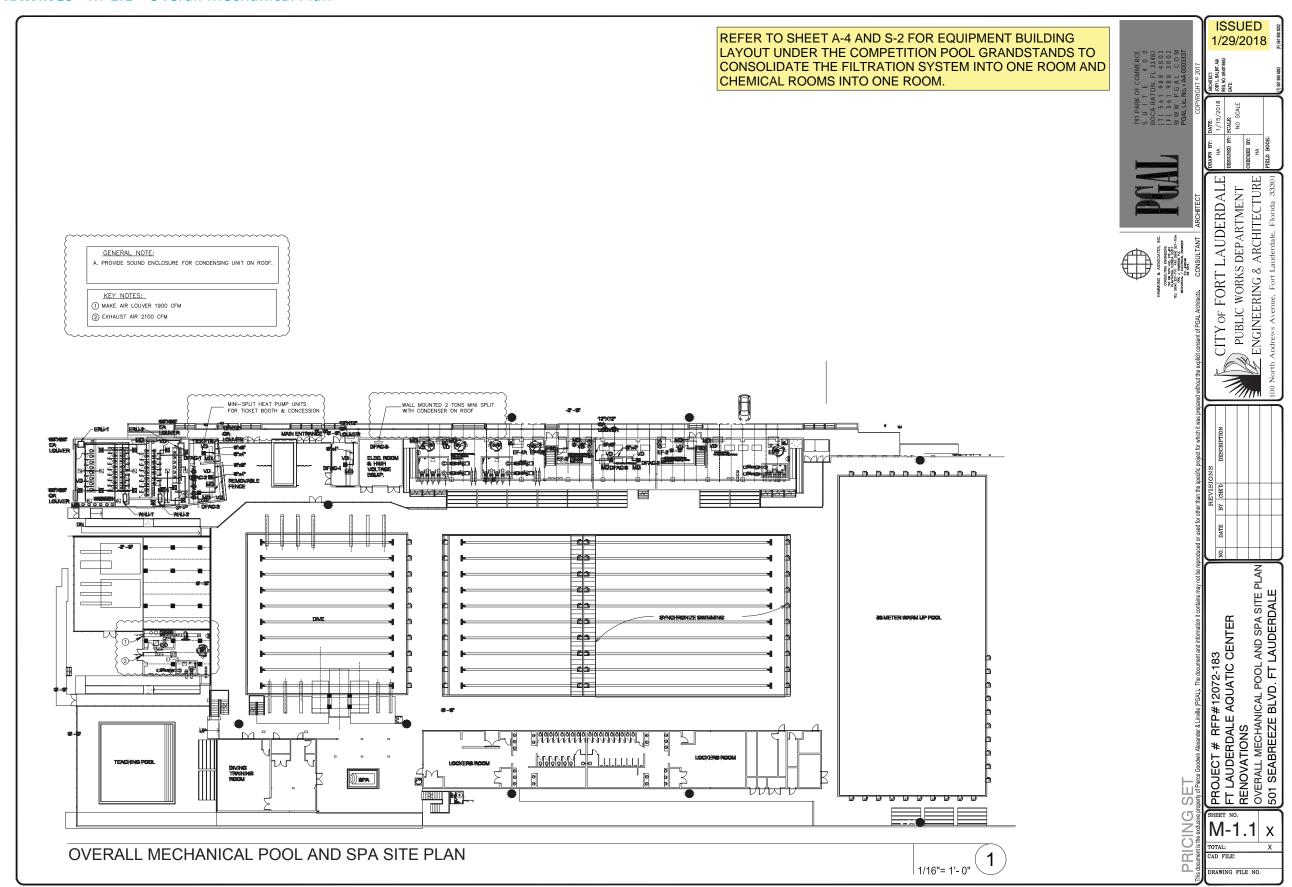
ENGINEERING & A.

FROJECT # RFP#12072-183
FT LAUDERDALE AQUATIC CENTER
RENOVATIONS
MECHANICAL INDEX, SYMBOL, LEGEND AN
501 SEABREEZE BLVD. FT LAUDERDA SYMBOL, LVD. FT L

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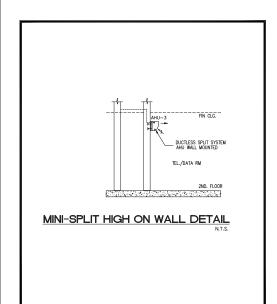


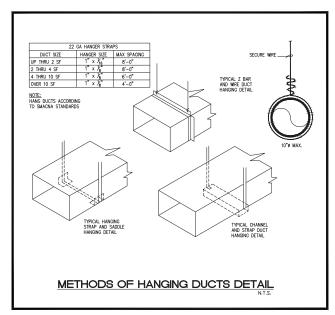
DESIGN DRAWINGS - M-1.1 - Overall Mechanical Plan

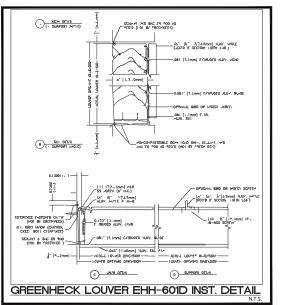


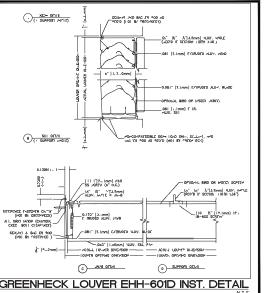


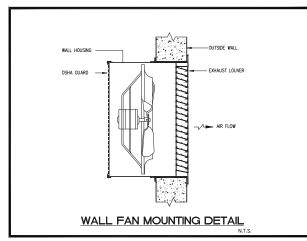
DESIGN DRAWINGS - M-1.2 - Mechanical Details

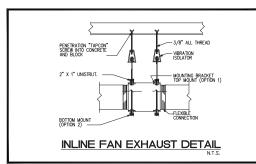


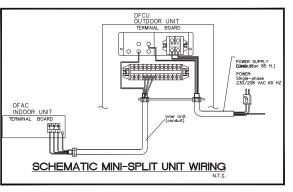


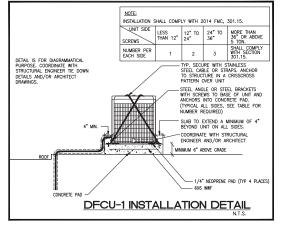


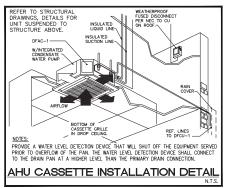


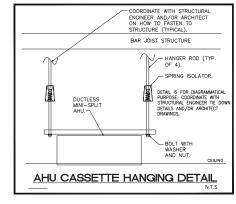


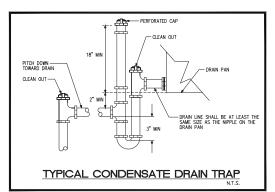


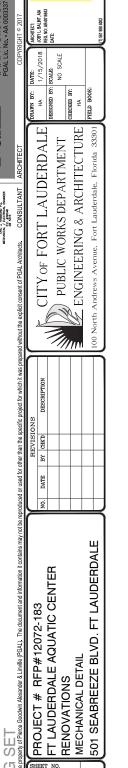












M-1.2 ×

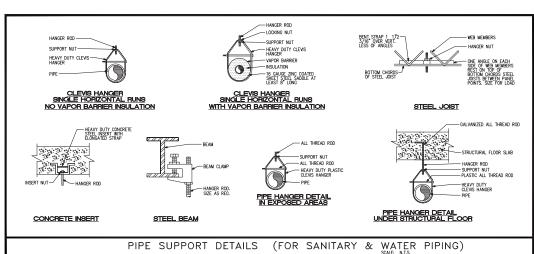
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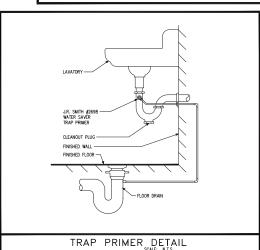


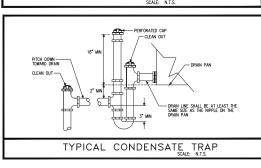
DESIGN DRAWINGS - P-1.0 - Plumbing Notes and Schedules

S	SHOCK ARRI	ESTOR SC	CHEDULE								
P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION								
A	SIOUX CHIEF 652-A	1-11	1/2"								
В	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											

SLOPE (OF HORIZ. DRAIN	AGE 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	}







	PL	LUMBING	FIXTURE	SCHEDULE	
NAME	<u>FIXTURE</u>	MODEL #		ACCESSORIES	
LAV-1	WALL HUNG LAVATORY ADA	AMERICAN STANDARD LUCERNE #0355.12		SLOAN QT-1320 FAUCET 3/8" FLEXIBLE SUPPLY PIPE, MCGUIRE ANGLE STOPS, ADJUSTABLE 7" TRAP WITH MCGUIRE 155WC GRID DRAIN	
LAV	COUNTERTOP LAVATORY	AMERICAN STANDARD AQUALYN MODEL # 0475.047		SLOAN QT-1320 FAUCET 3/8" FLEXBILE SUPPLY PIPE, MCGUIRE ANGLE STOPS, ADJUSTABLE "P" TRAP WITH MCGUIRE 155WC GRID DRAIN	
WC	WALL HUNG FLUSH VALVE WATER CLOSET	AMERICAN STANDARD 1.1 GPF FLUSHOMETER MANUAL FLUSH VALVE MODEL #2856.111 15" HEIGHT VITREOUS CHINA	TOILET SYSTEM	AMERICAN STANDARD \$5.09.110.000 EXTRA HEAVY TOLET SAT. ERPOSED MANUAL FLUSH VALVE INCO PROMBE FLOOR FLANGE WITH ALL BRASS BOLTS & RUBBER GASKET CARRIER: ZURN ADJUSTABLE HORIZONTAL BACK TO STHOM SET—NOT HUB MODEL \$7-1203—NO CARRIER: ZURN ADJUSTABLE HORIZONTAL STHOM SET—NO-HUB MODEL \$72103—NO	ND
WC-1	WALL HUNG FLUSH VALVE WATER CLOSET ADA	AMERICAN STANDARD 1.1 GPF FLUSHOMETER MANUAL FLUSH VALVE MODEL #2856.111 17" TO THE FINISHED VITREOUS CHINA	TOILET SYSTEM	AMERICAN STANDARD \$5.09.110.020 EXTRA HEAVY TOLET STAT. DEORSED MANUAL FLUSH YALV FOR PROVIDE FLOOR FLANGE WITH ALL BRASS BOLTS A RUBBER GASKET CARRIER: ZURN ADJUSTABLE HORIZONTAL BACK TO STHOM SET—NOT HUB MODEL \$Z=7.203—NO STHOM SET—NOT HUB MODEL \$Z=7.203—NO STHOM SET—NOT HUB MODEL \$Z=7.203—NO STHOM SET—NOT HUB MODEL \$Z=7.203—NO	LUDED IND
UR	URINAL	AMERICAN STANDARD "ALLBROOK" MODEL #6 MANUAL FLUSH VALVE WALL MOUNTED W/ 3/4" INLET SPUD. VITREOUS CHINA	541.511	URINAL FAUCET (INCLUDED) 1.0 GPF EXPOSED MANUAL FLUSH VALVE JR SMITH FLOOR MOUNTED CARRIER, ADA MOUNTING HIGH.	
DF	DRINKING FOUNTAIN BI-LEVEL ADA STAINLESS STEEL	ELKAY MODEL #EDFPBM117K NON-FILTERED NON-REFRIGERATED		1/2" SUPPLY PIPES, MCGIURE ANGLE STOPS & ADJUSTABLE "P" TRAP".	
3-COMP SK	THREE COMPARTMENT SINK STAINLESS STEEL	JUST MODEL # TLN-1843-A-GR FAUCET PUNCHING OVI EACH PARTITION	ER	FAUCET: (2) AMERICAN STANDARD MONTERREY TWO-HANDLE TOP-MOUNT RIGID/SWINEL GOOSENECK SPOUT WITH 8" REACH MODEL # 6409.180	
MOP/SK	MOP SINK	FIAT #MSB2424		WALL GUARD - WG ZURN Z-841 MI-RC DRAIN - SD	
FD	FLOOR DRAIN	WATTS FD-100-A EPOXY COATED CAST I	RON FLR DRAIN	REVERSIBLE CLAMPING COLLAR WITH ADJUSTABLE NICKEL BRONZE STRAINER AND NO HUB (STANDARD) OUTLET.	
FS	FLOOR SINK	ZURN MODEL FD2376-	NH3-H	HALF RATE, NICKALOY TOP AND SEDIMENT BUCKET.	
FIXTUR	RE V	VATER PIPE SIZE	NOMINAL SAN	I. SIZE MAXIMUM FLOW RATES	
WATER CL	.0SET (F.V.)	1"	3"	1.28 GPF	
LAVATORY	′	1/2"	1 1/4"	0.5 GPM	
SINK	WATER ORDER	1/2"	1 1/2"	1.5 GPM 0.5 GPM	
MOP SINK	WATER COOLER	1/2" 1/2"	1 1/4" 3"	0.5 GPM 2.0 GPM	
URINAL		3/4"	2"	0.5 GPF	
2. ALL FIX	NSULATION TO MEET TURES SHALL COMP	ADA REQUIREMENTS AND PLY WITH TABLE 604.4 OF FIXTURES SHALL COMPL	THE F.P.C2017	-84 PLUMBEREX MODEL∦396 OR EQUAL.	

PLUMBING GENERAL NOTES ALL WORKMANSHIP AND MATERIAL SHALL BE IN STRICT ACCORDANCE WITH THE FBC-PLIMBING 2017 EDITION, ALL APPLICABLE LOCAL CODES, RULES AND ORDINANCES. "DOMINICATION SHALL" NST "THE "DIB "SHE" XND "HONOUSEL" FAMILIARIZE HIMSEL" WITH "ALL" ENSTRING CONDITIONS.

- - EXISTIC CONSTITUTES.
 ALL MATERIAL SEMIL ES PERM.
 ALL MORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS MORNMANE MANDER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
 ALL EXCANTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
 - REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION
 AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.
 - AGAINST PUBLIC CHARLITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.

 CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS.

 DRAWNOS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES,
 PIPING, EQUIPMENT, ETC. REFER TO ARCHITECTURAL DRAWNOS FOR EXACT LAYOUT/LOCATION.
 - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROORESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.

 - PRIOR TO BEGINNING CONSTRUCTION.

 VERY LOCATION SZE, WIRETS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NOTIFY DISNOBER OF ANY DISCREPANCES.

 WATER PRINGS ALL BE LITE "L'OPERE FOR Z" AND UNDER AND THE" "COPPER FOR Z" AND ABOVE. ALL UNDERGOLOUNG WATER PRINGS SHALL BE LITTLE "N. "COPPER FOR Z" AND ABOVE. ALL UNDERGOLOUNG WATER PRING SHALL BE LOTHE" N. "COPPER GRAPE, MICHAROLL, CONTIS W/S.S. CLAMPS BELLOW GRAPE. PL'O. SHALL BE ACCEPTABLE AS SUBSTITUTION. ARE CONDITIONAND COMPRISHED FOR MIPPORS SHALL BE ACCEPTABLE. AND SWIT THE AND ADMINISTRATION COMPRESSATION FOR SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION FOR SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION FOR SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION FOR SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION FOR SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION. AND ADMINISTRATION FOR SHALL BE ACCEPTABLE AS SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION. AND ADMINISTRATION FOR SHALL BE ACCEPTABLE. AND SWIT CONTIS WAS AND ADMINISTRATION. AND ADMINISTRATION FOR SHALL BE ACCEPTABLE AS SHALL BE AS STOLLING.
 - ELECTION HAT WARP WHERE EPOSED TO FREZZING CONDITIONS.

 INSULATE ALL HOT MATER, HOT MATER ENDER, ARMANDER & CONDENSATE LINES AS FOLLOWS:
 HIM SUPPLY AND RETURN 1" THICK PREFORED FIBERCIASS PIPE INSULATION W/ FACTORY
 AGKET, HORIZONIA, STORM INDAN PRIPOS 11/2" THICK PEFFORMED FIRED, LASS PIPE
 INSULATION W/ FACTORY JACKET, CONDENSATE PIPING 3/4" ARMANEX PREFORMED,
 ALL RIXTURES MIST EE PROVIDED HIM FACILITY ACCESSEDE STOPS AND APPROPRIATELY
 MARKED ACCESS PAPIELS. CONDENSATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO
 MSTILLATION.

 - INSTALLATION.

 FUNNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE AND P.D.I.

 APPROVED SHOCK ARRESTORS ON MAIN LINES ON RISERS. (W-5 SERIES)

 DECUPPLENT COMPLETIONS.

 TO STREET AND EQUIPMENT COMMETTIONS.
 - ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD (HAIR FELT LINING).
 - 18. ISOLATE COPPER PIEF FROM HANGER OR SUPPORTS WITH SOLATOR PAD (HARF RELT LINNO) FALL RER RATED FLOOR AND MALL PEREMANDIS SANL LE REPORTERLY PROTECTED FROM FIRE, SURGE AND WARTE PENETRATION BY FILING VIOUS EETWEN PIEF AND WALL/FLOOR SELEVS WITH FIRE RATED FOAM, OHNE TENDHOLOGY COPP. CTC PR-855 OR 3M, OP-25 CAULING OR 303 PUTTY, TO ACHIEVE SANE RATING AS WALLS OR FLOORS.
 20. CONTRACTOR SHALL GUARANTE ALL MATERIALS AND WORKMANDSHEP FREE FROM DETECT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER, ORDERCTION OF AN OPERCIS SHALL BE COMMETED WITHOUT ADDITIONAL CHANGE AND SHALL BOLDER REPLECTS SHALL BE COMMETED WITHOUT ADDITIONAL CHANGE AND SHALL BOLDER FEDERAL DISTRICT OF REPARCE ANY OTHER PHASE OF THE PROPOSED AND SHALL BOLDER FOR THE PROPOSED AND SHALL BOLDER FOR THE PRASE OF THE PROPOSED AND SHALL BOLDER FOR THE NEAREST PLUMBING PROTECTS AND SHALL CHANGE AND ALL WASTE HAMMER PROPOSED AND ALL CHANGES AND ALL WASTE HAMMER PROPOSED AND ALL CHANGES AND ALL WASTE HAMMER PROPOSED.

 - PAYINE.

 PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER
 ASPRESTERS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND
 MUST MAINTH THE FINSH OF THE WALL IN WHICH IT IS INSTALLED.

 - MIST MATCH THE FINISH OF THE WALL IN WHOTH IT IS INSTALLED.

 PROVIDE STRANESS STEEL POLISHED FLAT ACCESS CORRE PLATE AND CLEMOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEMOUTS JURN #275-1469 OR APPROVED EQUAL.

 NO COMBINISHED MATERIAL TO BE USED IN WECHANICAL ROOMS OR IN CELLING SPACES WHERE USED AS RETURN ARE PLEMUS.

 NO WATER, SANTHAY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR ROOMS. DRAINS SHALL BE AS FOLLOWS. (ZURN)

 BATHROOM AREAS FOW SOURCE, "EXHISSE—P (FID)

 INTERIOR FLOOR CLEMOUTS SHALL BE ZURN #27400—52 (WITH SQUARE TOP)

 ALL CONTROL VALYS SHALL BE FROOVED FOR OWNER/POPERATOR

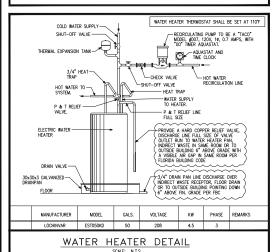
 LOCATION ALL VALYS SHALL BE PROVIDED FOR OWNER/POPERATOR

 LOCATION ALL VALYS SHALL BE PROVIDED FOR OWNER/POPERATOR.

 STREED IF A DIP ON W WAM BE FELTO ON SANTIERY OF TOOM PLANEAR AND CONDINISATE LINES.
 - SCHEDULE 40 PVC D.W.Y MAY BE USED ON SANITARY, STORM DRAINS AND CONDENSATE LINES WHERE LOCAL CODE AND ORDINANCES WILL ALLOW, PVC MAY NOT BE USED IN ANY MECHANICATION OF ANY MECHANICATION OF THE CODES OR IN ANY RETURN PLENUKS AND MAY NOT PERHERATE ANY RATED WALL OR FLOOR.
 - ALL METALLIC PIPING, FITTINGS AND HANGERS EXPOSED TO CORROSIVE CONDITIONS SHALL HAVE A PROTECTIVE COATING THAT RESIST CORROSION.
 - MARE A PROJECTIVE COMING HIAT RESST CORROSON.

 ALL HOSE BBBS SHALE BE CHONE PLATED 3/4 SCUD FLANCE THREADED HOSE AND
 LOOSE KEY MY WICHAUS BREAKER ZURN 18FF-9 AND MUNITED PER ARCHITECTURAL DRA
 ALL RIER MANS, HOT & COLD MATER PERS, HOT MATER RETURN PHONE AND
 CONDENSATE PHYSIC SHALL HAVE DESTRICTATION AND FLOW DRECTIONS BANDS.

 AND THE CONTROL SHALL HAVE DESTRICTATION AND FLOW DRECTIONS BANDS.
 - CONTRACTOR SHALL KEEP A SET OF AS-BUILTS DWGS. ON THE JOB SITE AT ALL TIMES AND DELIVER A SET OF UP TO DATE AS-BUILTS TO THE ENGINEER AND OWNER AT THE CONDICION OF THE DRIFFE.



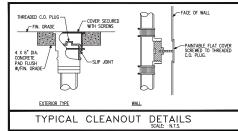
PLUMBING INDEX			
DRÁWING TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO	1 €€		
P-1.0 PLUMBING INDEX, SYMBOL LEGEND AND NOTES.	R		
P-1.1 OVERALL PLUMBING POOLS AND SPA SITE LAYOUT	K		
P-1.2 NEW PUBLIC BATHROOMS & CONCESSION ROOM - DOM. WTR. AND SAN. PLANS	K		
	P-1.0 PLUMBING INDEX, SYMBOL LEGEND AND NOTES. P-1.1 OVERALL PLUMBING POOLS AND SPA SITE LAYOUT	P-1.0 PLUMBING INDEX, SYMBOL LEGEND AND NOTES.	P-1.0 PLIMBING INDEX, SYMBOL LEGIDIO AND NOTES. P-1.1 OVERALL PLIMBING POOLS AND SPA SITE LAYOUT

SHOP DRAWING REQUIREMENTS

- CONTRACTOR SHALL SUBMIT 6 COPIES OF COMPLETED SHOP DRAWINGS, TOGETHER AT ONE TIME AND MUST COME THROUGH THE ARCHITECT. ALL SUBMITTALS SHALL BE MADE WITHIN 30 DAYS OF NOTICE TO
- . ALL SUBMITTALS MUST CLEARLY INDICATE EXACTLY WHICH ITEMS ARE BEING PROPOSED FOR USE. IF NOT, THE SUBMITTAL SHALL BE REJECTED.
- SUBSTITUTIONS SHALL BE LIMITED TO ONE OF THE ALTERNATES LISTED IN THE CONSTRUCTION DOCUMENTS. PRODUCTS CONSIDERED TO BE EQUAL SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER, ARCHITECT AND OMNER (TO) DAYS PROF TO BID DATE.
- THE CONTRACTOR ASSUMES ALL DESIGN RESPONSIBILITY AND ALL FINANCIAL RISKS FOR PROCEEDING PRIOR TO SHOP DRAWNOS PROCESSING, AND ON ANY ITEM OR WORK THAT IS AT VARIANCE TO THE CONSTRUCTION DOCUMENTS. SHOP DRAWINGS AND SUBMITTALS FOR EACH ITEM SHALL BE REVIEWED NO MORE THAN TWICE. A THIRD SUBMITTAL ON AN ITEM MUST BE ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR OR IT SHALL BE REJECTED.

- SUBSTITUTIONS FROM THE BASE DISSON OR WARRINGS TO THE PERMITTED CONTRACT DOCUMENTS, WHETHER RESULTING FROM PROCESSED SHOP DRAWNINGS OR NOT, THAT RESULT IN REQUIRELIBRING FROM PROCESSED SHOP DRAWNINGS OR DOLLET CHANGES WE MIGHTED BY THE LETTERS OF ALTHORIZATION AND LOS PERMIT CONTRACT DOCUMENT CHANGES WARDLETE BY THE AUTHORITY HAWNO JURISDICTION WILL NOT BE WADE BY THIS OFFICE UNLESS ACCOMPANIED BY A PURCHASE CORRES FROM THE CONTRACTOR, AND RELEASED ON A CLD, BASE

PLUMBING SYMBOL LEGEND DESCRIPTION SANITARY LINE VENT LINE STORM DRAIN LINE SAFEWASTE LINE CONDENSATE LINE COLD WATER LINE HOT WATER LINE HOT WATER RETURN GAS LINE GAS LINE GATE VALVE WATER HAMMER ARRESTOR FLOOR PENCITATION FLOOR DEANN ROOF DRAIN ROOF DRAIN FLOOR DAN UT WALL CLEANOUT FLUSH CLEAN OUT GLEANOUT GRADE

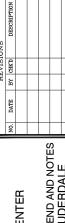






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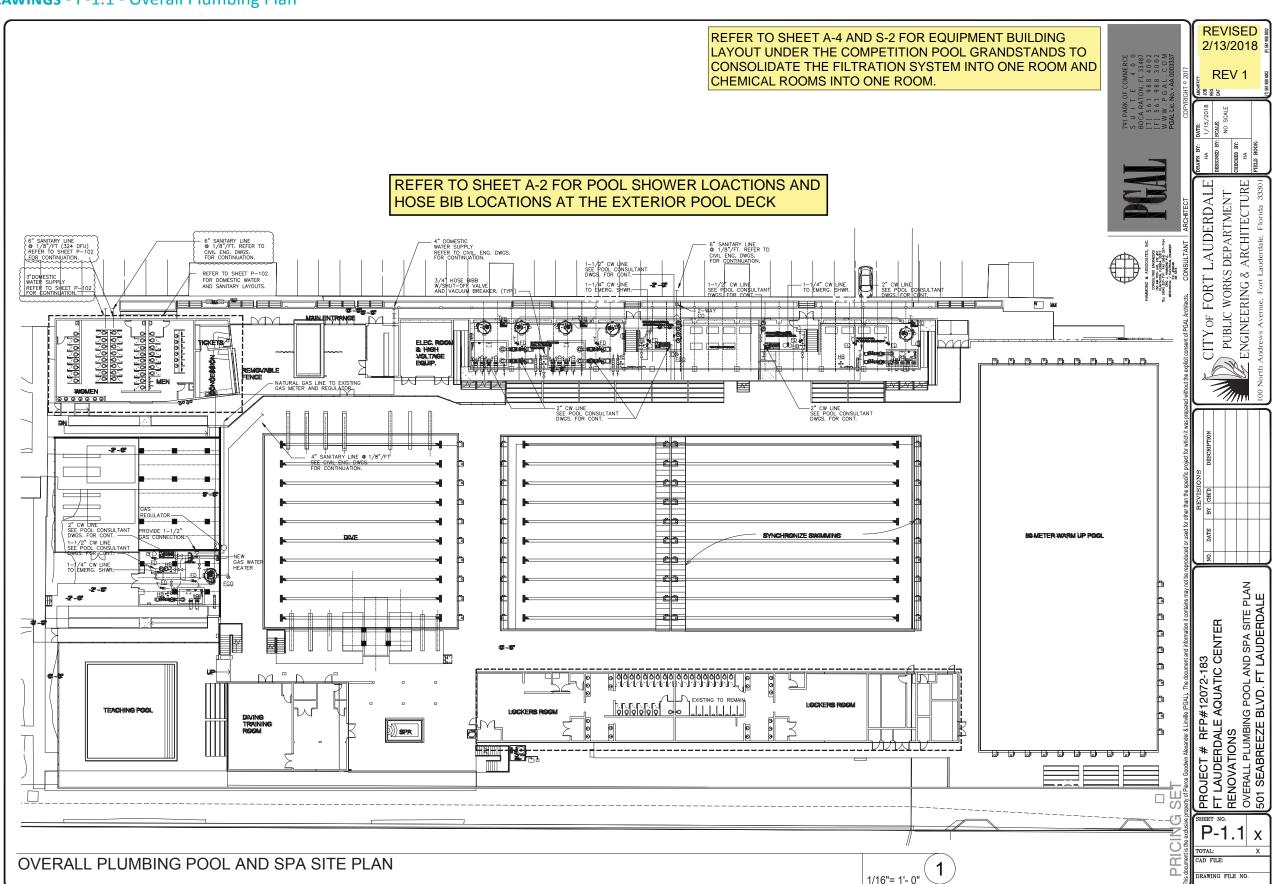


183 C CENTER SYMBOL, LEGEND BLVD. FT LAUDE AOJECT # RFP#12072-183 I LAUDERDALE AQUATIC C ENOVATIONS

PROJECT # RFP# FT LAUDERDALE , RENOVATIONS PLUMBING INDEX, S 501 SEABREEZE E P-1.0 x

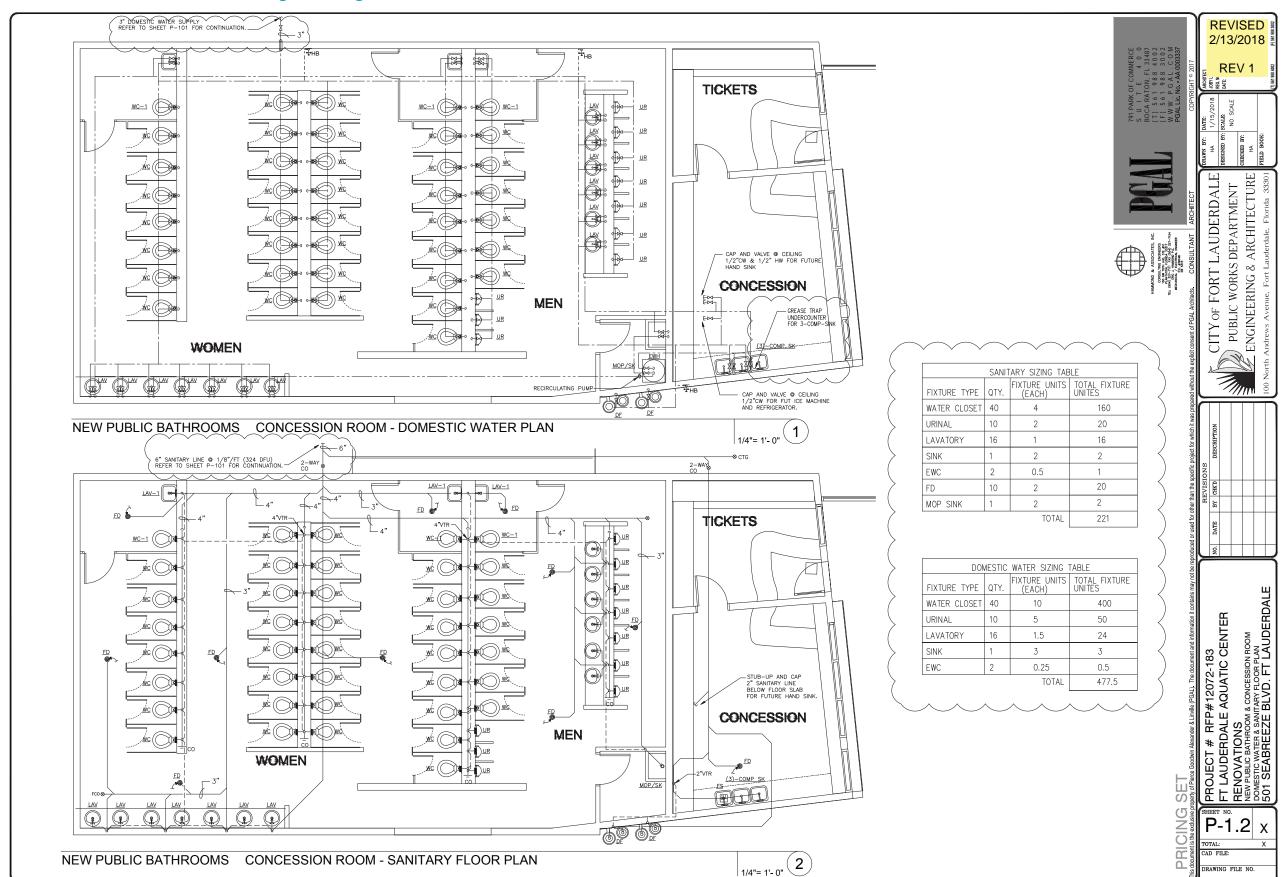


DESIGN DRAWINGS - P-1.1 - Overall Plumbing Plan





DESIGN DRAWINGS - P-1.2 - Concession Building Plumbing Plan



DESIGN DRAWINGS - E-1 - Electrical Notes



٦	Г	ELECTRICAL INDEX	_		_
	l E		A		
	2	E-100 ELECTRICAL INDEX, SYMBOL LEGEND AND NOTES. E-101 OVERALL ELECTRICAL POOLS AND SPA SITE LAYOUT			
	3		\vdash	_	H
	5		Ε		
	7				
	8			_	
	ΙГ	SHOP DRAWING REQLIREMENTS			
	1.	CONTRACTOR SHALL SUBMIT 6 COPIES OF COMPLETED SHOP DRAWINGS, TOGETHER AT ON COME THROUGH THE ARCHITECT. ALL SUBMITTALS SHALL BE MADE WITHIN 30 DAYS OF PROCEED.	TIME I	AND N	(UST
	2.	ALL SUBMITTALS MUST CLEARLY INDICATE EXACTLY WHICH ITEMS ARE BEING PROPOSED FO THE SUBMITTAL SHALL BE REJECTED.	R USE.	IF N	OT,
	3.	SUBSTITUTIONS SHALL BE LIMITED TO ONE OF THE ALTERNATES USTED IN THE CONSTRUCT PRODUCTS CONSIDERED TO BE EQUAL SHALL BE REVIEWED AND ACCEPTED BY THE ENGINAND OWNER (10) DAYS PRIOR TO BID DATE.	TION DO	CHITE	NTS.
	4.	THE CONTRACTOR ASSUMES ALL DESIGN RESPONSIBILITY AND ALL FINANCIAL RISKS FOR F PRIOR TO SHOP DEVAINOS PROCESSING, AND ON ANY ITEM OR WORK THAT IS AT VARIAN CONSTRUCTION DOCUMENTS.	ROCEED CE TO 1	ING HE	
	5.	SHOP DRAWINGS AND SUBMITTALS FOR EACH ITEM SHALL BE REVIEWED NO MORE THAN T SUBMITTAL ON AN ITEM MUST BE ACCOMPANIED BY A PURCHASE ORDER FROM THE CONT SHALL BE REJECTED.	WICE.	OR IT	tD T
	6.	CIRCUMSTANCES NECESSITATING A REVISION TO THE PERMITTED DOCUMENTS NOT PROCESS INSTALLATION MAY NOT BE ACCEPTED. IF ACCEPTED IF MISST BE LEGIBLE, ACCURATE MEY A PURCHASE ORDER ORDER PROM THE CONTRACTOR. THE REVISION SHALL BE CHARK CONTRACTOR AND DELIVERED TO HIM ON A C.O.D. BASIS.	ED PRICE ACCOM	PANIE THE	D
	7.	DUBSTITUTIONS FROM THE BASE DESIGN OR VARIATIONS TO THE PERMITTED CONTRACT DO WHICHTHER RESULTING FROM PROCESSED SHOP DRAWNINGS ON NOT, THAT RESULT IN REQUIRE THESE OF AUTHORIZATION MAJOR PERMIT CONTRACT DOCUMENT CHANGES MANAGED BY UNITHORITH HAWNO JURISDICTION MILL NOT BE MADE BY THIS OFFICE UNLESS ACCOMPANIE WHICHCASE DORS FROM THE CONTRACTOR, AND RELEASED ON A C.O.D. BASIS.	CUMENTS EMENTS THE D BY A	S. IN	
	8.	contractor shall submit 5 copies of Equipment Lyyouts of all electrical space etc. To the engineer for approval prior to ordering equipment or installing of the layouts shall consist of plan vews at a scale of $1/2^* = 1'0^*$ and elevatic such space or room, etc.	S, ROOF	AS, ETC.	н

SYSTEMS SYMBOL LEGEND

RCUIT BREAKER, TYPE AND SIZE AS PER DRAWINGS

SERVICE AND DISTRIBUTION

AUTOMATIC TRANSFER SWITCH
EXISTING EQUIPMENT TO REMAIN
NEW EQUIPMENT OR WORK OF THIS PROJECT

TELEPHONE/COMPUTER RACEWAY S/STEM
TELEPHONE/COMPUTER TERMINAL BOARD "TIB"
INTERCOM SYSTEM SPEAKER

TELEVISION SIGNAL WALL OUTLET (M.H. = 18* A.F.F.) WITH B-CONDUCTOR RJ-45 JACK AND F-TYPE RG6 COAX JACK IN SINGI F-CANG BOY

SINGLE-GANG BOX.

TELEVISION SIGNAL WALL OUTLET F-TYPE RG6 COAX JACK & COMPUTER/TELEPHONE OUTLET (2) 8-CONDUCTOR RJ-45 JACKS IN SINGLE-GANG BOX. (18" A.F.F.)

SECURITY SYSTEM CAMERA, PROVIDE POWER AND SIGNAL CONNECTION, SEE SPECS.

SECURITY SYSTEM CARD READER, SEE SPECS.

SECURITY SYSTEM CABLES IN CONDUIT, SEE SPECS.

ECURITY SYSTEM MONITORS AND RECORDERS, SEE SPECS.

SECURITY SYSTEM JUNCTION BOX AT ACCESSIBLE LOCATION

SECURITY SYSTEM HIDDEN PUSH BUTTON FOR DOOR STRIKE RELEASE, COORDINATE INSTALLATION WITH FURNITURE OR

SECURITY SYSTEM SPEAKER WITH INTEGRAL MICROPHONE

COMPANION ALDRIEL/VISUAL SIDALING UNIT — FRE ALARM HONE (GRENCH). FLUSHING SHOCKE LIGHT (WALL MTD) MOUNT HOS (GRENCH) IS CHOKEN TO LOOK. THE PROPERTY SEALON IS CHOKEN TO LOOK. WITH THE PROPERTY SEALON INTO THE ADMINISTRATE LIGHT ONLY (80° TO BOTTOM) (NO ALDRID EXCE). PHOTO-ELECTRIC SHOKE DETECTOR E. — GREZION STORE LIGHT ONLY (80° THE CONTROL OF THE PROPERTY SHOKE DETECTOR E. — GREZION OF THE PROPERTY SHOWE DETECTO

OT MOUNTED SMOKE DETECTOR, WITH SAMPLE TUBE, REMOTE IT AND HEAVY DUTY CONTROL RELAY.

FIRE ALAMS SPEAKER (WALL OR CELLING MOUNTED)

FIREPORTER'S FHOME JACK

HOLT DETECTOR, PIXED TEMPERATURE (135') UNLESS

FIRE ALAMS FLOW SWITCH (FURNISHED BY SPRINKLER
CONTRACTOR)

FIRE ALAMS TAMPER SWITCH (FURNISHED BY SPRINKLER
CONTRACTOR)

FIRE ALARM REMOTE ANNUNCIATOR PANEL - FLUSH MOUNTED FIRE ALARM TERMINAL CABINET

(X) (E-XXX)

EXISTING EXISTING RELOCATED

MOTION SENSOR — CEILING MOUNTED

MONITOR MODULE

FIRE ALARM CONTROL PANEL — ADDRESSABLE

"REFIGHTER'S ELEVATOR WARNING LIGHT

ABBREVIATIONS:

DEDICATED FOR COMPUTER, PROVIDE DEDICATED GROUND AND NEUTRAL

SOLATED GROUND (ORANGI PROVIDE EMERGENCY BATTERY PACK W/FIXTURE, CONNECT AHEAD OF ALL

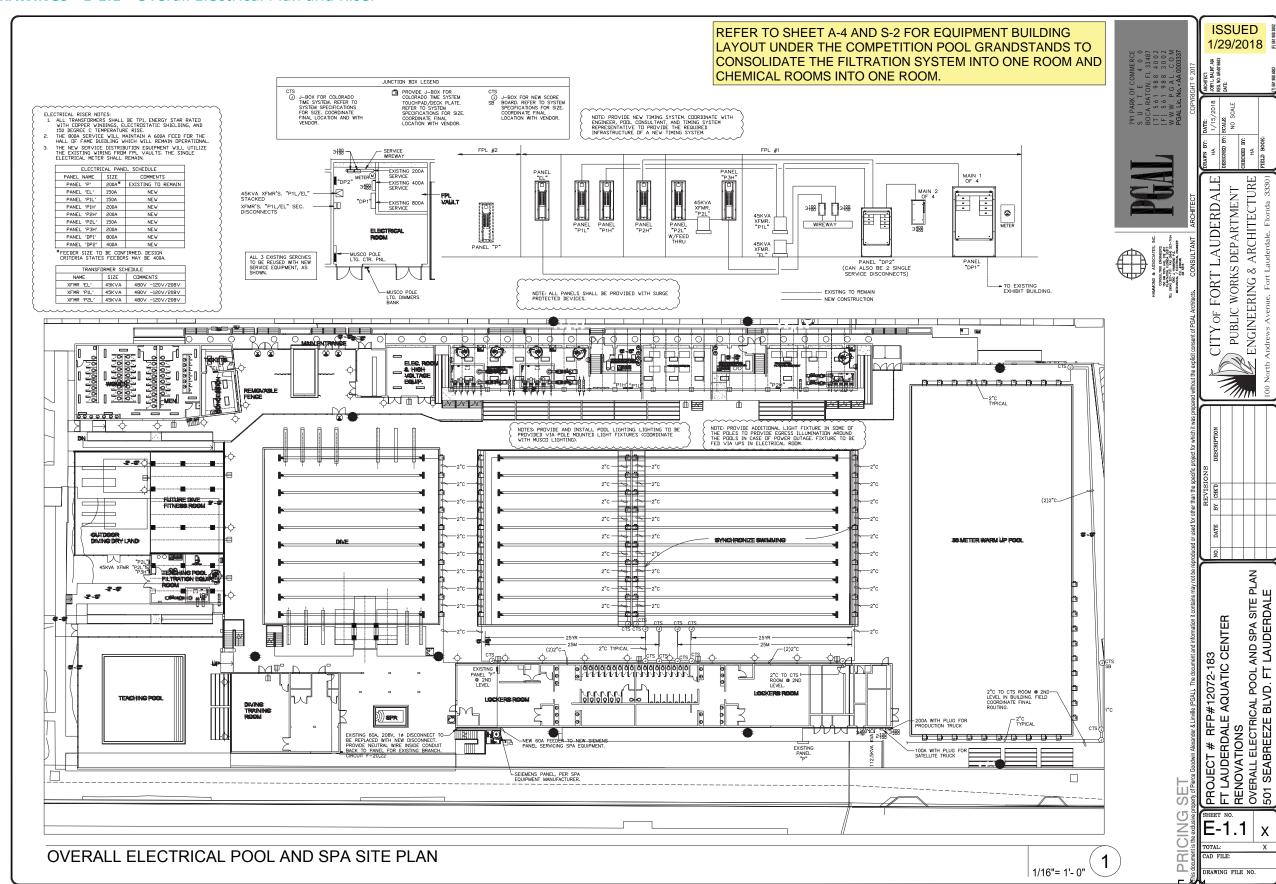
SECURITY SYSTEM KNOX BOX
FIRE ALARM/DETECTION SYSTEM

SECURITY SYSTEM





DESIGN DRAWINGS - E-1.1 - Overall Electrical Plan and Riser





ISSUED 2/2/2018

ELECTRICAL DESIGN NARRATIVE

FOR

CITY OF FORT LAUDERDALE AQUATIC CENTER

HAMMOND & ASSOCIATES, INC. 150 NW 70th AVENUE, SUITE #10 PLANTATION, FL 33317

Electrical Narrative Supplement 1 of 4





ISSUED 2/2/2018

0.0 GENERAL:

- 0.1 Statement of Purpose: These specifications outline the Electrical requirements for the City of Fort Lauderdale Aquatic Center.
- 0.2 Scope of Electrical Work: Design and Engineering will be provided for the following principal electrical items:
 - 0.2.1 City of Fort Lauderdale Aquatic Center will receive power from two separate FPL yaults.
 - 0.2.2 A power distribution system rated 277/480 volts, 3- phase, 4 wire, 60 Hz. Including switchgear, panel boards, conduit and wire, etc.
 - 0.2.3 A lighting system rated 277/480 volts, 3 phased, 4 wire, 60 Hz including light fixtures, lamps, panel boards, conduit and wire, etc.
 - 0.2.4 A receptacle and small power distribution system rated 120/208 volts, 3 phased, 4 wire, 60 Hz including dry type transformers, panel boards, conduit and wire,
 - 0.2.5 An addressable Fire Alarm System.

0.4 Codes and Regulations

- Florida Building Code, 2017 Edition
- 2. NEC, Latest Edition
- 3. Florida Fire Prevention Code
- 4. NFPA 101- Life Safety Code
- 5. NFPA 70- National Electrical Code
- 6. NFPA 110- Emergency Power Systems
- 7. NFPA 780 Lightning Protection System

1.0 CONDUIT

- 1.1 All wiring will be installed in conduit, minimum 1/2".
- 1.2 Galvanized Rigid Steel (GRS) Conduits will be used underground, and exposed exterior locations.
- 1.3 Electrical Metallic Conduit (EMT) will be used in concealed aboveground applications and exposed in storage, mechanical and electrical rooms above 8 feet.
- 1.4 Flexible Metal Conduit (FMC) will be used for short connections to vibrating equipment and light fixtures. Liquid-tight flexible conduit will be used outside and in wet location areas.
- 1.5 PVC will be used underground and cast in floor slabs.

2.0 WIRES, CABLES AND CONDUCTORS

- 2.1 All conductors will be copper, minimum #12.
- 2.2 Wire sizes # 8 and larger will be stranded with type THWN/THHN insulation rated for 600 volts
- 2.3 Wire sizes # 10 and smaller will be solid conductor.

3.0 PANELBOARDS

- 3.1 Panel boards for lighting and receptacles will have tin-plated copper busses.
- 3.2 Panel boards will be of "panel board" construction.
- 3.3 Circuit breakers will be of bolt-on, molded cased type, full size.
- 3.4 Panel boards will be provided with 20% spare capacity.

4.0 DRY TYPE TRANSFORMERS

- 4.1 Dry type transformers rated 480 volts primary to 120/208 volts secondary will be provided.
- 4.2 All transformers shall be TP1, energy star rated with copper windings, electrostatic shielding, and 150 degree C temperature rise.

Electrical Narrative Supplement 2 of 4



ISSUED 2/2/2018

5.0 INTERIOR & EXTERIOR LIGHTING

- 5.1 All Lighting (interior and exterior) shall meet current IESNA lighting standards as published by the Illuminating Engineering Society of North America.
- 5.2 All Lighting (interior and exterior) shall be LED.
- 5.3 New restrooms, ticket area, concession, electrical room (existing modified), storage, pool equipment rooms will be equipped with occupancy sensors to automatically turn lighting loads on and off. Occupancy sensors shall be dual technology type.

6.0 CONVENIENCE OUTLETS

- 6.1 Two pole, 3 wire, grounding type specification grade duplex outlets rated 20 amps, 120 volts will be provided.
- 6.2 Cover plates will be non-conductive type in finished areas and stamped galvanized steel in unfinished areas.
- 6.3 New restrooms, ticket area, concession, electrical room (existing modified), storage, pool equipment rooms will be equipped with general purpose or dedicated outlets as per engineer consideration. Additional outlets can be added per additional owner request. Owner to coordinate any addition or removal of proposed outlets with engineer durING design phase.
- 6.4 All structures around the pools, new and existing, will be provided with extra general purpose GFCI, weather resistance receptacle, enclosed in a weatherproof enclosure as a mean for convenient use during competition and other activities that can take place.

6.0 FIRE ALARM SYSTEM

- 6.1 A stand alone electronic fire alarm system.
- 6.2 Fire alarm low voltage wiring will be installed in conduit.

7.0 LIGHTNING PROTECTION SYSTEM

Even though this protection is required in any structure by NFPA 780, the Florida Building Code does not enforce this requirement for this kind of facilities.

9.0 TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

TVSS will be provided on all panel boards serving this facility designed for all modes of Protection: L-L,L-N,L-G and N-G.

10.0 ELECTRICAL SERVICE

A 277/480 VOLT, 3 PHASE, 4 WIRE, 60 Hz. service will be provided from the secondary of a FPL pad mounted transformer.

13.0 EMERGENCY LIGHTING

Emergency lighting will comprise of selected general lighting fixtures provided with battery back-up.

14.0 TIMING SYSTEM

Engineer, Pool Consultant and Timing System representative/vendor will work together in the design of the required infrastructure for the new system. Besides the existing Colorado Timing System in the complex, the owner has requested that a new system be added. Engineer, Pool Consultant and Timing System representative/vendor will work together in the design of the required infrastructure for the new system.

15.0 SOUND SYSTEM

15.1 Other than what is specified in FR 13 for artistic swimming, general sound/public address speakers are used for swimming, diving and water polo events. For general sound

Electrical Narrative Supplement 3 of 4





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- requirements, audible capabilities to the pool fenced in area of the venue with connection to the locker rooms is required. Municipal code sound and decibel standards will apply.
- 15.2 Additional support speakers are set up for special events for public address and entertainment needs.
- 15.3 For synchronized swimming, two (2) portable underwater speakers in the middle of the deepest 25 x 25 meters square is sufficient. Speakers are typically placed at the deepest end of the 50 meters pool where the competitors would come out of the call room and close to the judges scoring table/room.
- 15.4 Recommendations for placement of a venue sound system should be provided in the bid proposal. This can be further reviewed and finalized during design process.
 Speaker Zones:
 - 50M Training Pool
 - 50M Main Competition Pool
 - Dive Well
 - Locker Rooms
 - Grandstand seating areas.
- 15.5 A permanent installation of an underwater speaker system (UWS) is not desired.

 Underwater speakers that are portable/temporary shall be used and placed in the pool(s) on an as needed basis. The UWS will be used in the Diving Well, 50M Competition Pool and 50M Training Pool, pools where synchronized swimming could take place. DBF is not responsible for providing these speakers.

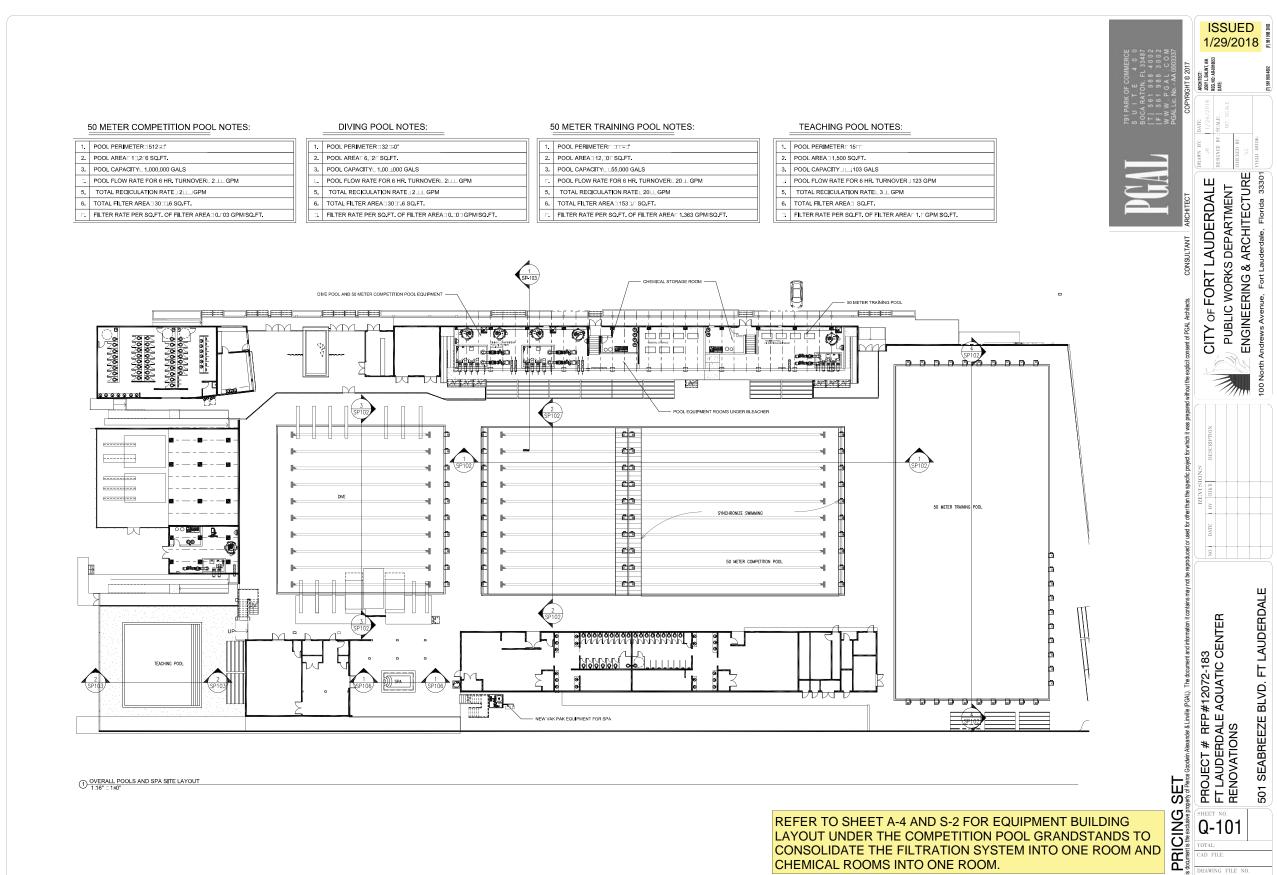
END OF NARRATIVE

Electrical Narrative Supplement 4 of 4



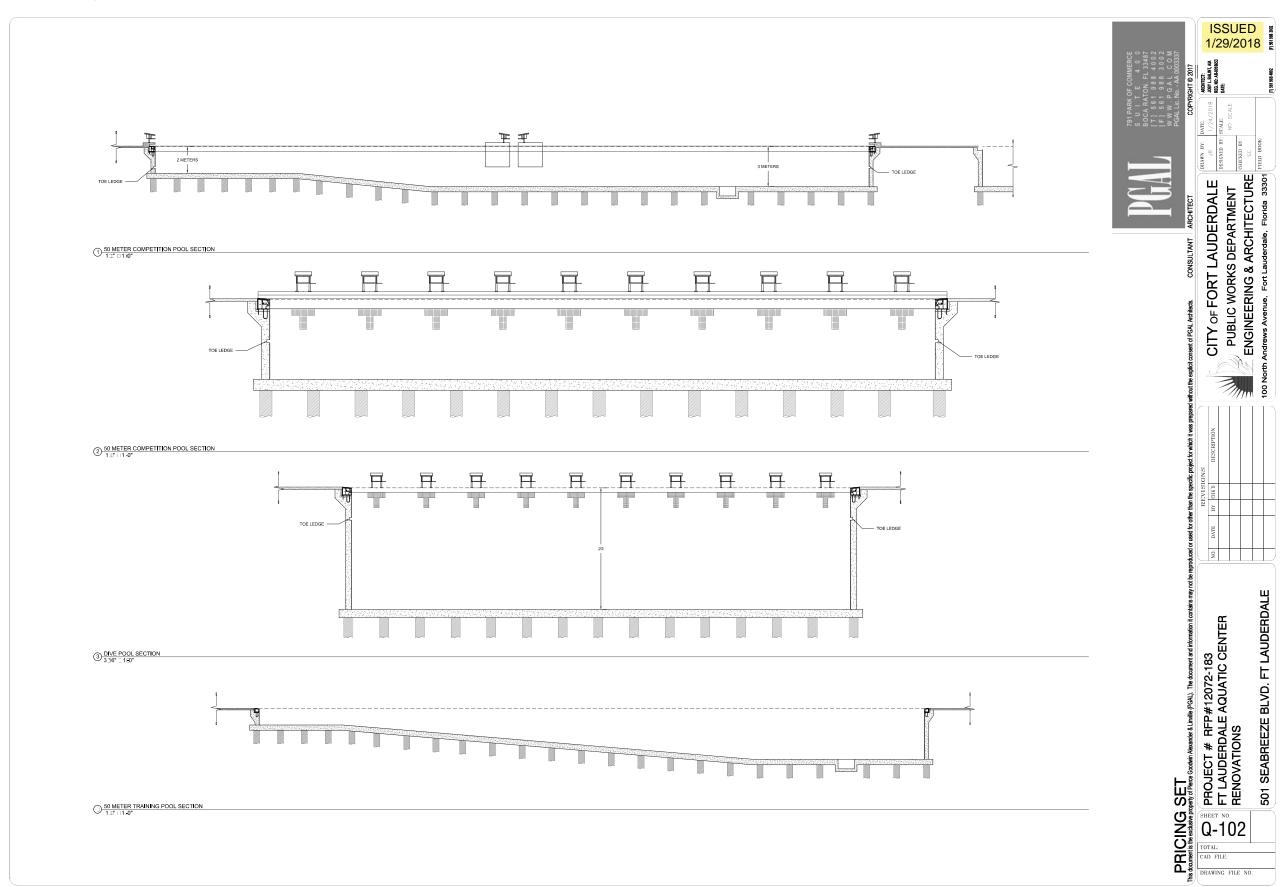


DESIGN DRAWINGS - Q-101 - Site Plan Layout and Notes



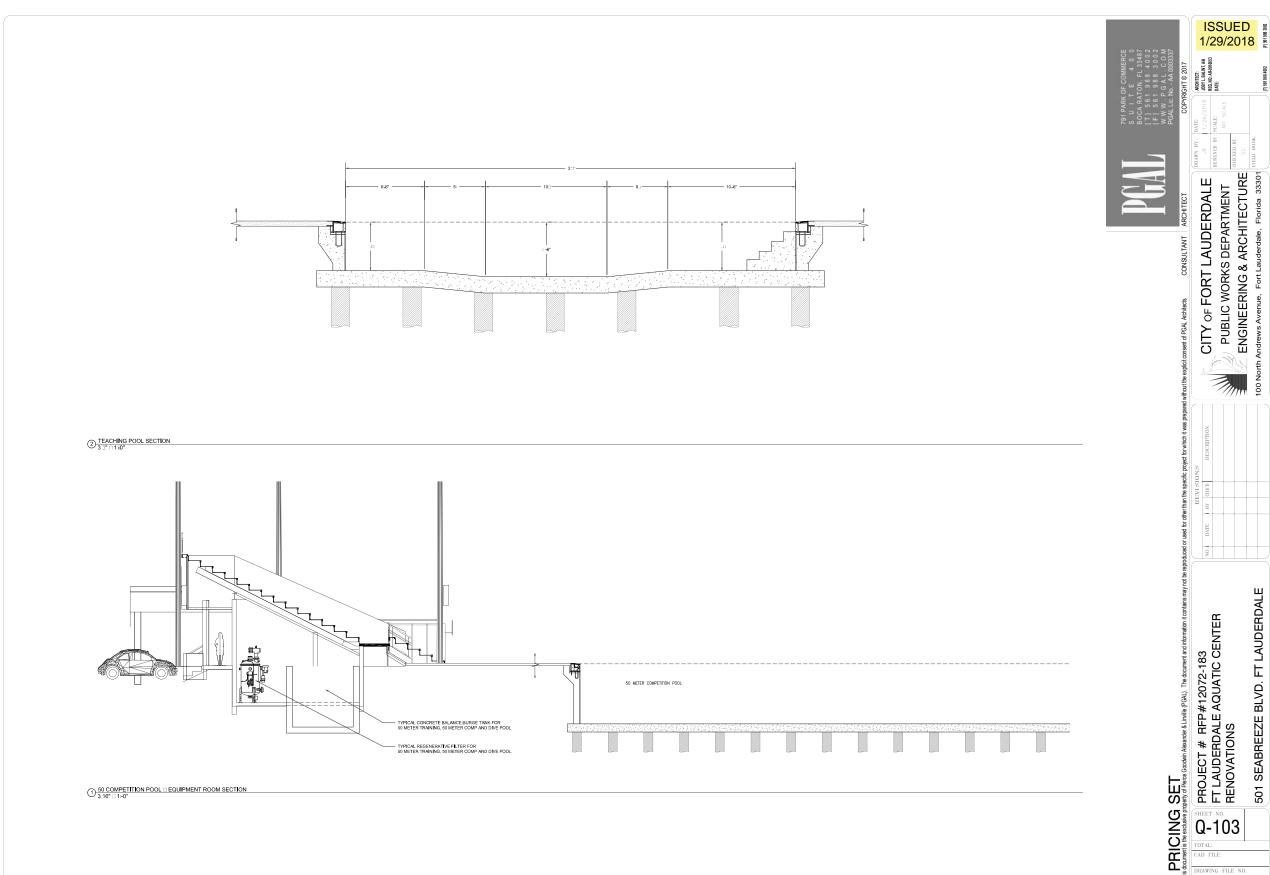


DESIGN DRAWINGS - Q-102 - Pool Sections



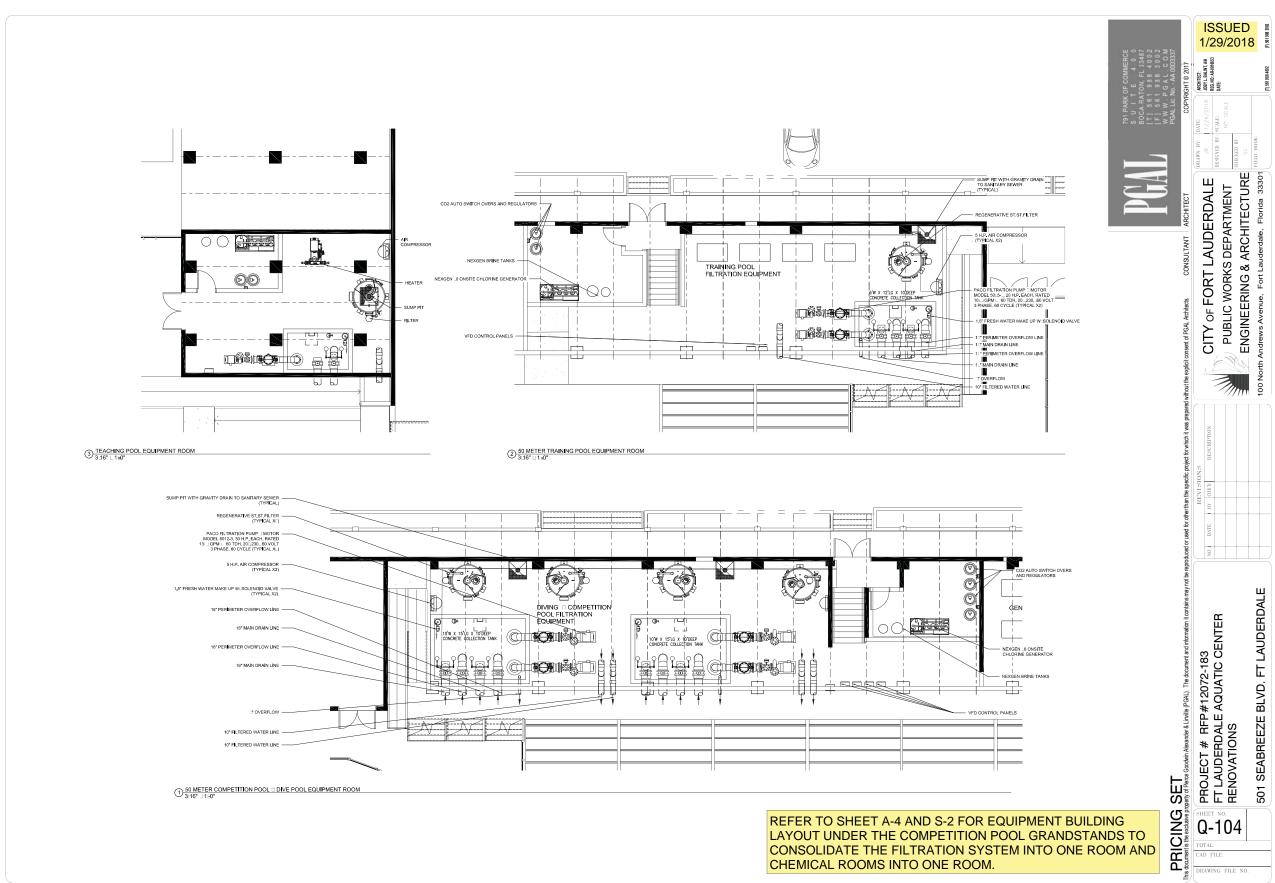


DESIGN DRAWINGS - Q-103 - Teaching Pool and Equipment Room Section





DESIGN DRAWINGS - Q-104 - Equipment Room Layout





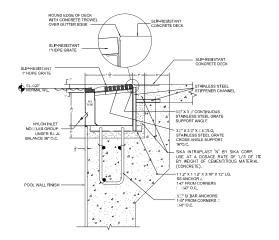
DESIGN DRAWINGS - Q-105 - Filtration Equipment

	FIL			- BASIS OF DESIGN TITION POOL
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
2	FILTRATION PUMP	PACO	6012-3	PACO FLOODED SUCTION MODEL 30 H.P. PUMP & MOTOR, RATED FOR 1389 GPM @ 60 TDH, 480V, 3 PHASE, 60 CYCLE, 1750 RPM, WITH VFD SUPPLIED BY FILTER MANUFACTURE W/FLOW SENSOR AND READ OUT.
2	LINT STRAINER	PADDOCK		PADDOCK STAINLESS STEEL ROUND HAIR & LINT STRAINER W/ EXTRA STAINLESS STEEL BASKET
2	D.E. FILTRATION	PADDOCK	PPEC-2100S	1,538.8 SQ.FT. 63.5" DIAMETER STAINLESS STEEL REGENERATIVE D.E. PRESSURE FILTER WITH VFD PANEL
1	AIR COMPRESSOR	GRAINGER		GRAINGER 5 H.P. 408V, AIR COMPRESSOR W/TANK
1		McMASTER	9831K13	AUTO CONDENSATE DRAIN
±513	GUTTER	PADDOCK	C-100	STR. TYPE ST.ST. RECIRCULATION SYSTEM W/ HDPE PADDOCK GRAY GRATE.
2	BULKHEADS	PADDOCK		SIX FOOT WIDE STAINLESS STEEL BULKHEADS WITH HDPE GRATING
		CHLO	RINATION E	QUIPMENT
	SALT CHLORINATOR	CHLORKING	NEX-GEN 80	SALT CHLORINATOR BOOSTER PUMP, BRIME TANK AND STAND
1	CHEMISTRY CONTROLLER	BECSYS	7	WATER CHEMISTRY CONTROLLER W/ FLOW CELL, SWITCH, FLOW SENSOR, TDS, PPM
1	CO2 CROSSOVER SWITCH	BECSYS		

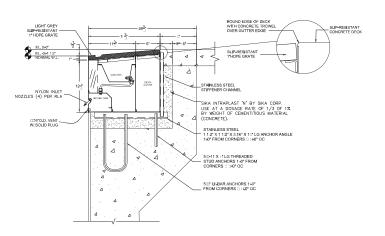
	FIL	TRATION EQ	UIPMENT DIVE PO	- BASIS OF DESIGN
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
2	FILTRATION PUMP	PACO	6012-3	PACO FLOODED SUCTION MODEL 30 H.P. PUMP & MOTOR, RATED FOR 1399 GPM @ 60 TDH, 480V, 3 PHASE, 60 CYCLE, 1750 RPM, WITH VFD SUPPLIED BY FILTER MANUFACTURE W/FLOW SENSOR AND READ OUT.
2	LINT STRAINER	PADDOCK		PADDOCK STAINLESS STEEL ROUND HAIR & LINT STRAINER W/ EXTRA STAINLESS STEEL BASKET
2	D.E. FILTRATION	PADDOCK	PPEC-2100S	1,538.8 SQ.FT. 63.5" DIAMETER STAINLESS STEEL REGENERATIVE D.E. PRESSURE FILTER WITH VFD PANEL
-1	AIR COMPRESSOR	GRAINGER		GRAINGER 5 H.P. 408V, AIR COMPRESSOR W/TANK
1		McMASTER	9831K13	AUTO CONDENSATE DRAIN
±328	GUTTER	PADDOCK	C-100	STR. TYPE ST.ST. RECIRCULATION SYSTEM W/ HDPE PADDOCK GRAY GRATE.
		CHLO	RINATION E	QUIPMENT
	SALT CHLORINATOR	CHLORKING	NEX-GEN 80	SALT CHLORINATOR BOOSTER PUMP, BRIME TANK AND STAND
1	CHEMISTRY CONTROLLER	BECSYS	7	WATER CHEMISTRY CONTROLLER W/ FLOW CELL, SWITCH, FLOW SENSOR, TDS, PPM
1	CO2 CROSSOVER SWITCH	BECSYS		

	FILTRATION EQUIPMENT - BASIS OF DESIGN 50 METER TRAINING POOL						
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION			
2	FILTRATION PUMP	PACO	5095-7	PACO FLOODED SUCTION MODEL 20 H.P. PUMP & MOTOR, RATED FOR 1049 GPM @ 60 TDH, 480V, 3 PHASE, 60 CYCLE, 1750 RPM, WITH VFD SUPPLIED BY FILTER MANUFACTURE W/FLOW SENSOR AND READ OUT.			
2	LINT STRAINER	PADDOCK		PADDOCK STAINLESS STEEL ROUND HAIR & LINT STRAINER W/ EXTRA STAINLESS STEEL BASKET			
1	D.E. FILTRATION	PADDOCK	PPEC-2100S	1,538.8 SQ.FT. 63.5" DIAMETER STAINLESS STEEL REGENERATIVE D.E. PRESSURE FILTER WITH VFD PANEL			
1	AIR COMPRESSOR	GRAINGER		GRAINGER 5 H.P. 408V, AIR COMPRESSOR W/TANK			
1		McMASTER	9831K13	AUTO CONDENSATE DRAIN			
±480	GUTTER	PADDOCK	R-300	STR. TYPE ST.ST. RECIRCULATION SYSTEM W/ HDPE PADDOCK GRAY GRATE.			
		CHLO	RINATION E	QUIPMENT			
	SALT CHLORINATOR	CHLORKING	NEX-GEN 80	SALT CHLORINATOR BOOSTER PUMP, BRIME TANK AND STAND			
1	CHEMISTRY CONTROLLER	BECSYS	7	WATER CHEMISTRY CONTROLLER W/ FLOW CELL, SWITCH, FLOW SENSOR, TDS, PPM			
1	CO2 CROSSOVER SWITCH	BECSYS					

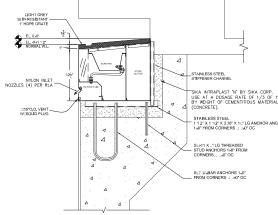
	FILTRATION EQUIPMENT - BASIS OF DESIGN TEACHING POOL						
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION			
1	FILTRATION PUMP	PACO		PACO FLOODED SUCTION MODEL 7.5 H.P. PUMP & MOTOR, RATED FOR 347 GPM © 60 TDH, 480V, 3 PHASE, 60 CYCLE, 1750 RPM, WITH VFD SUPPLIED BY FILTER MANUFACTURE W/FLOW SENSOR AND READ OUT.			
1	LINT STRAINER	PADDOCK		PADDOCK STAINLESS STEEL ROUND HAIR & LINT STRAINER W/ EXTRA STAINLESS STEEL BASKET			
1	D.E. FILTRATION	PADDOCK	PPEC-350S	277.9 SQ.FT. 33" DIAMETER STAINLESS STEEL REGENERATIVE D.E. PRESSURE FILTER WITH VFD PANEL			
1	AIR COMPRESSOR	GRAINGER		GRAINGER 3 H.P. 408V, AIR COMPRESSOR W/TANK			
1		McMASTER	9831K13	AUTO CONDENSATE DRAIN			
±154	GUTTER	PADDOCK	R-300	STR. TYPE ST.ST. RECIRCULATION SYSTEM W/ HDPE PADDOCK GRAY GRATE.			
		CHLO	RINATION E	QUIPMENT			
	SALT CHLORINATOR	CHLORKING	NEX-GEN 20	SALT CHLORINATOR BOOSTER PUMP, BRIME TANK AND STAND			
1	CHEMISTRY CONTROLLER	BECSYS	7	WATER CHEMISTRY CONTROLLER W/ FLOW CELL, SWITCH, FLOW SENSOR, TDS, PPM			
1	CO2 CROSSOVER SWITCH	BECSYS					







3 50 METER COMPETITION POOL GUTTER PROFILE (SIDES) AND FULL DIVE POOL GUTTER PROFILE



1 112" | 1-0"



CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
handrews Avenue, Fort Lauderdale, Florida, 33307

ISSUED §

501 SEABREEZE BLVD. FT LAUDERDALE

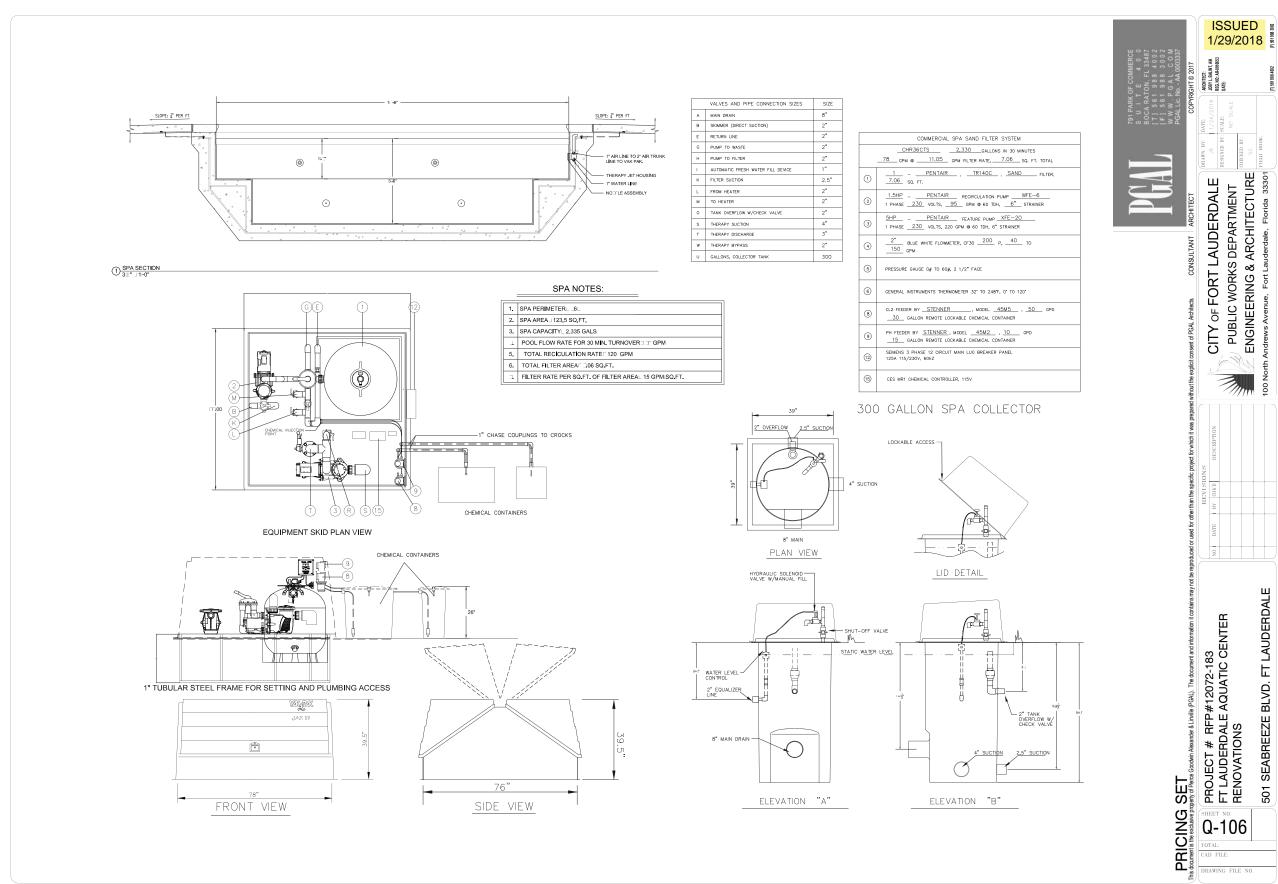
PROJECT # RFP#12072-183 FT LAUDERDALE AQUATIC CENTER RENOVATIONS

Q-105

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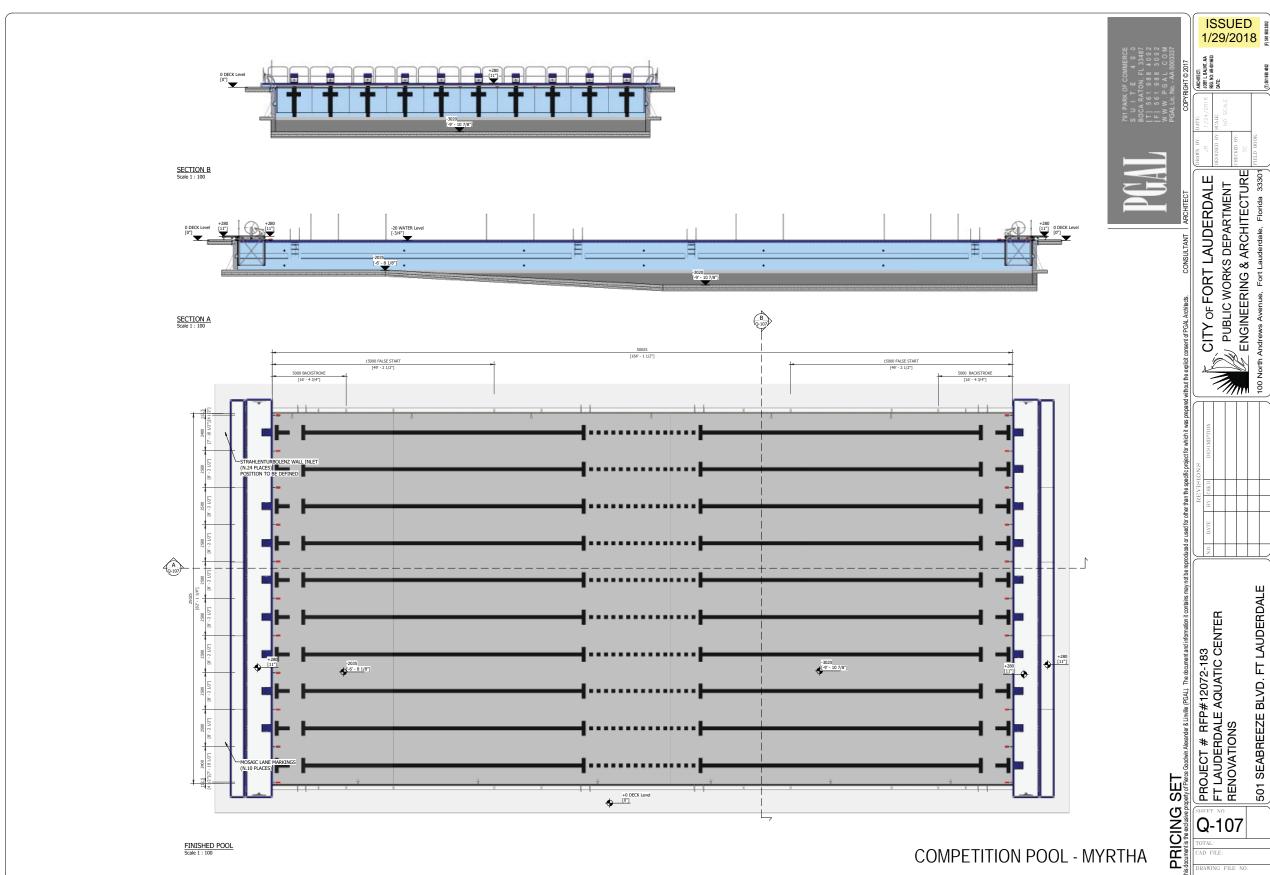


DESIGN DRAWINGS - Q-106 - Spa Equipment & Schedule



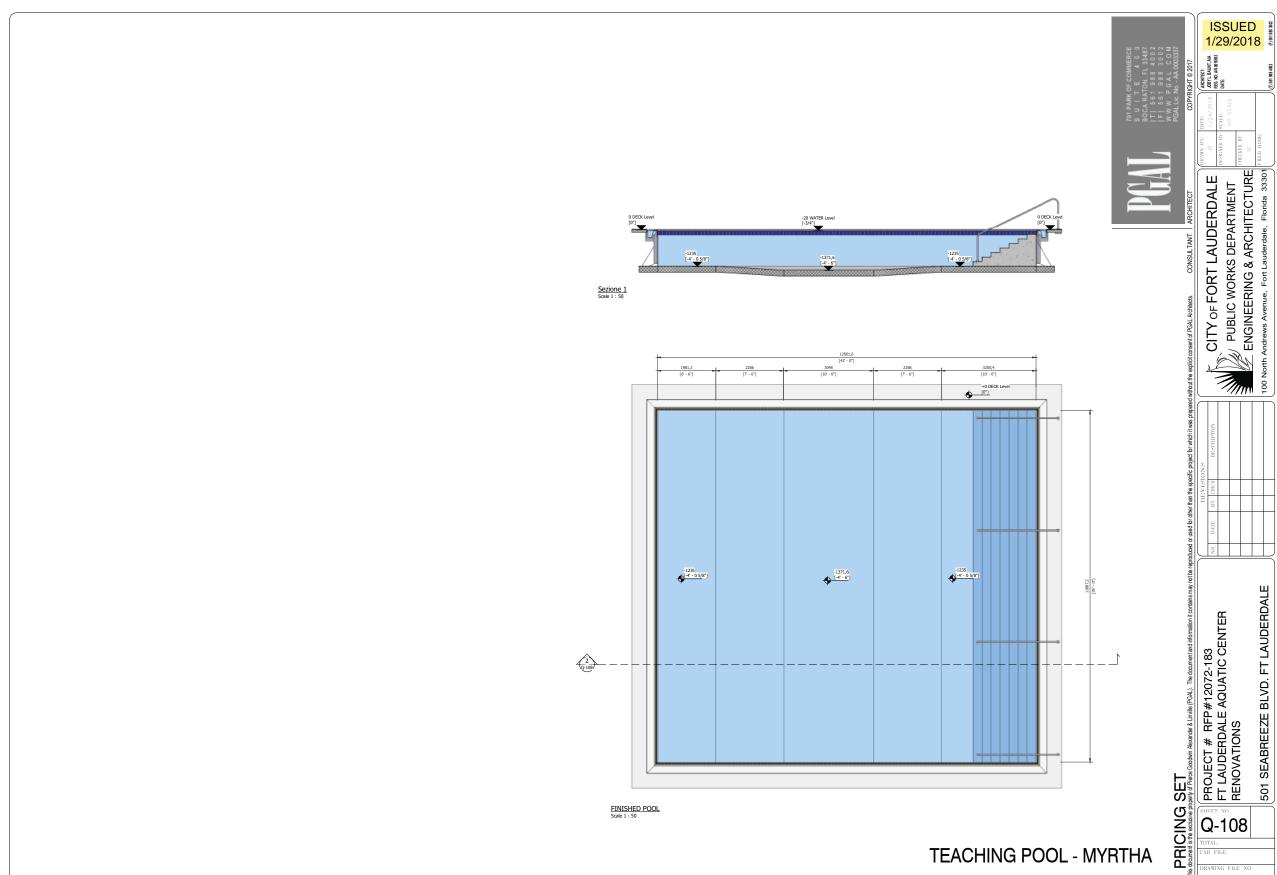


DESIGN DRAWINGS - Q-107 - Myrtha - Competition Pool



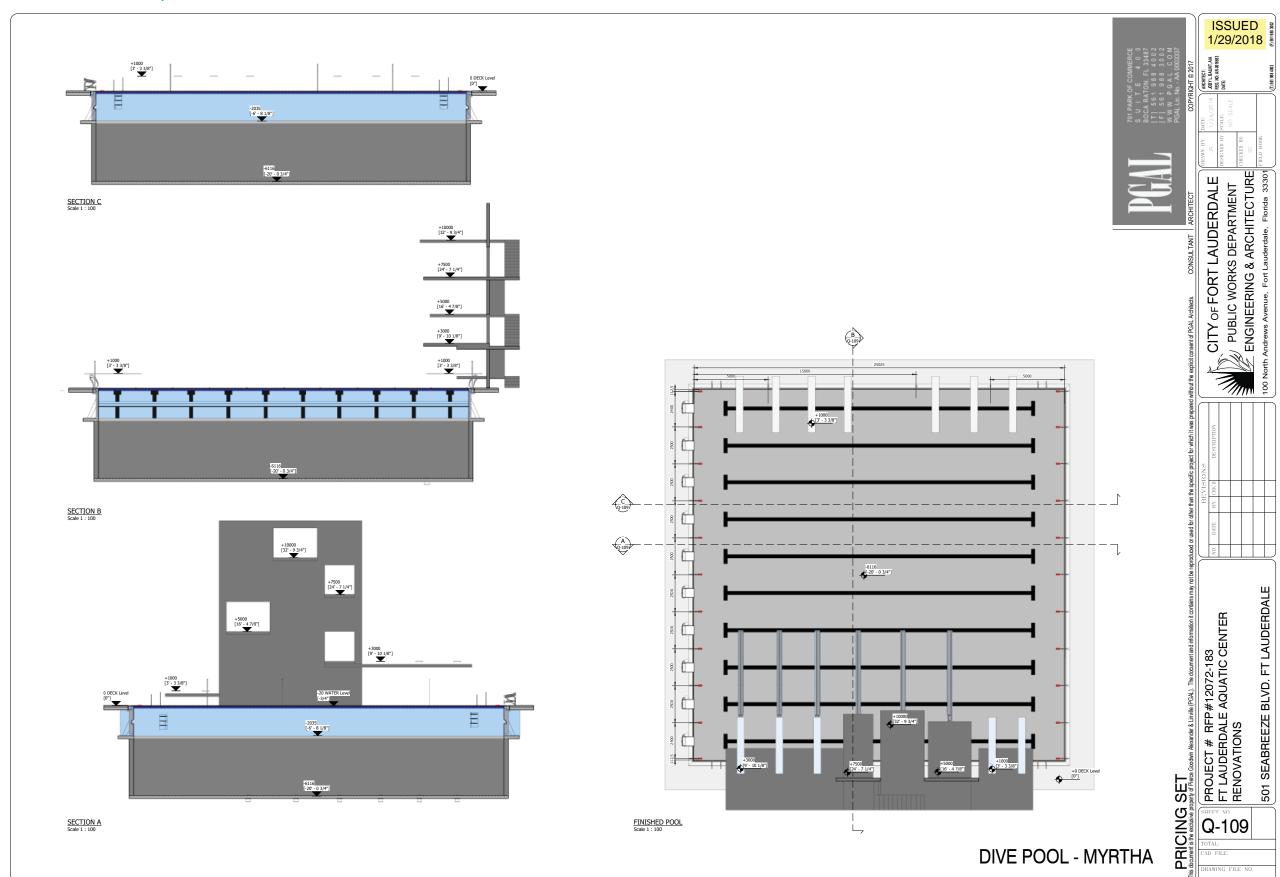


DESIGN DRAWINGS - Q-108 - Myrtha - Teaching Pool



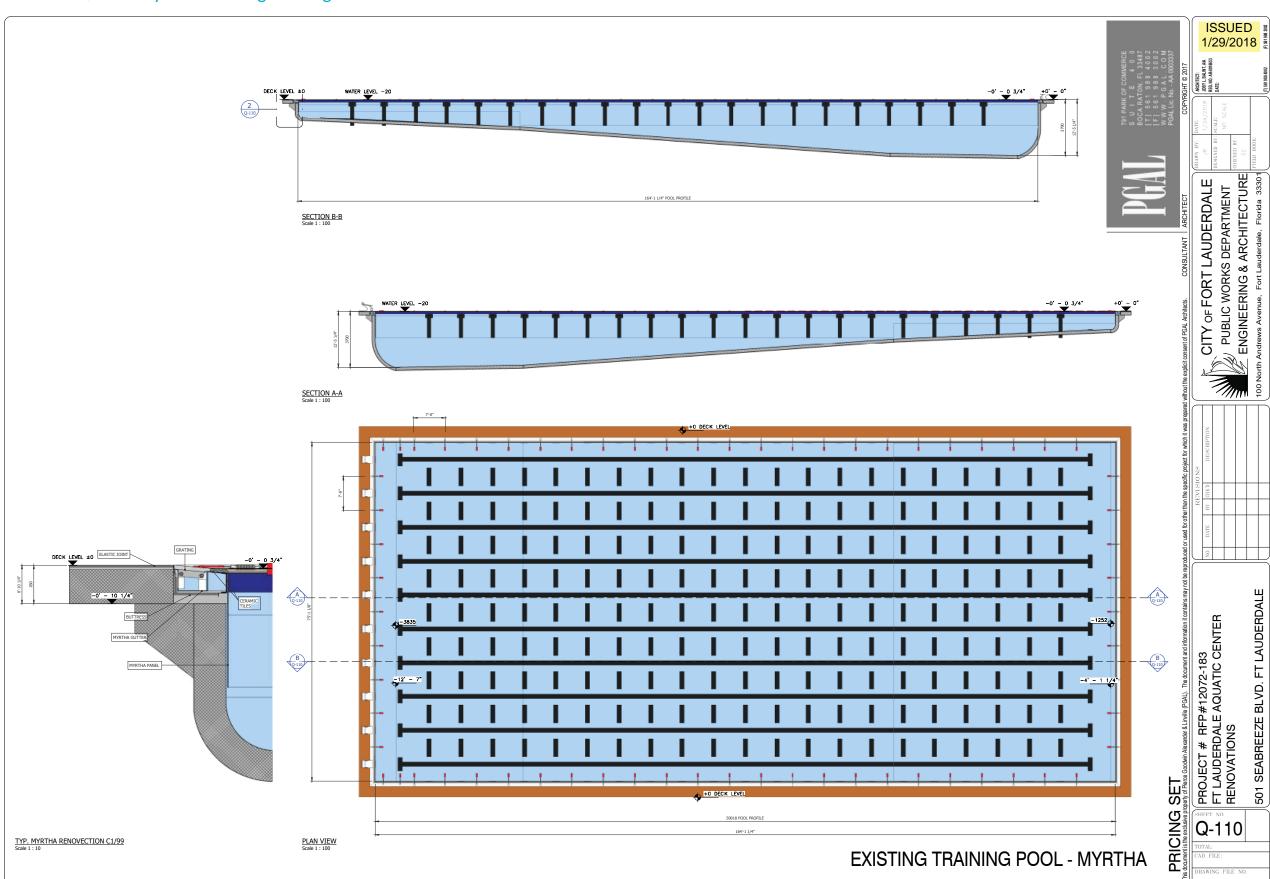


DESIGN DRAWINGS - Q-109 - Myrtha - Dive Pool



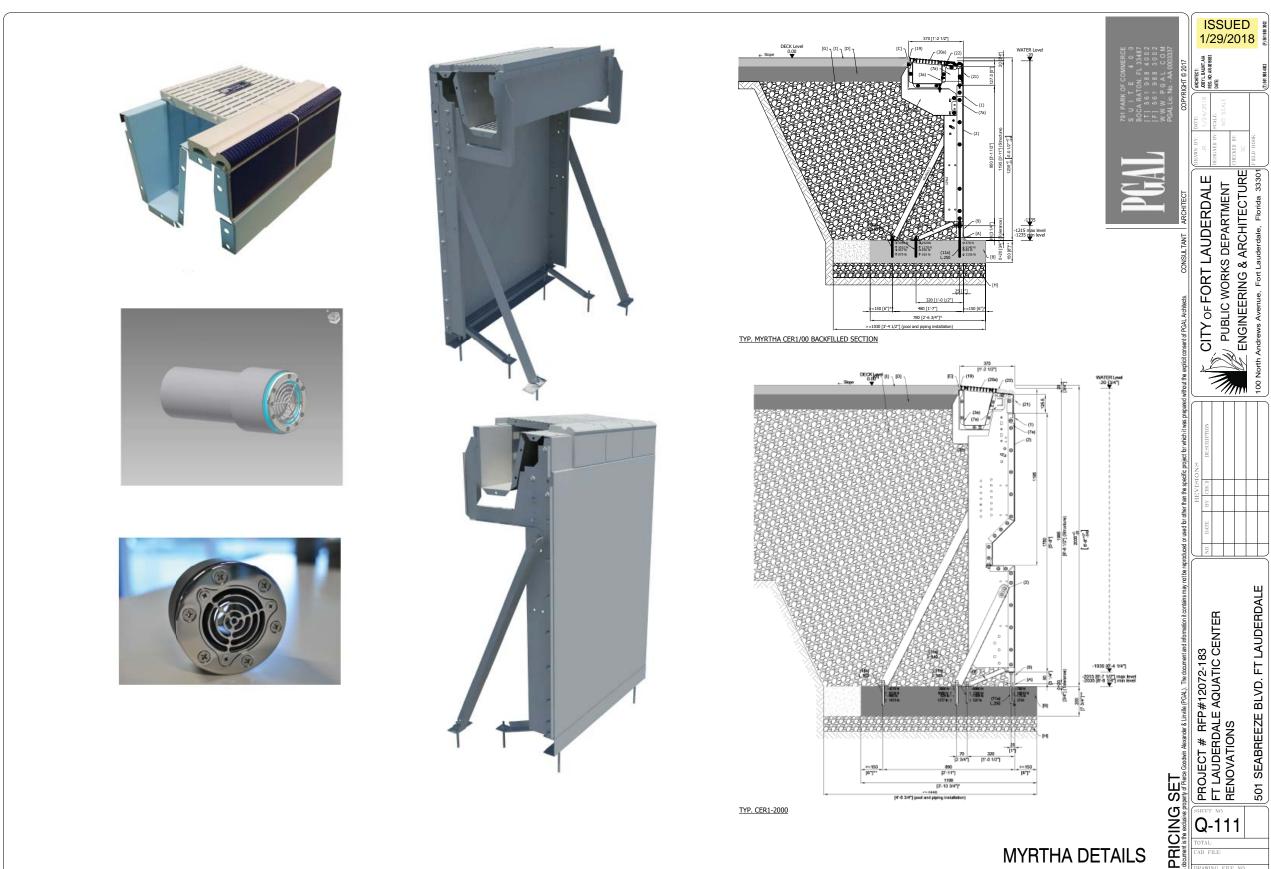


DESIGN DRAWINGS - Q-110 - Myrtha - Existing Training Pool



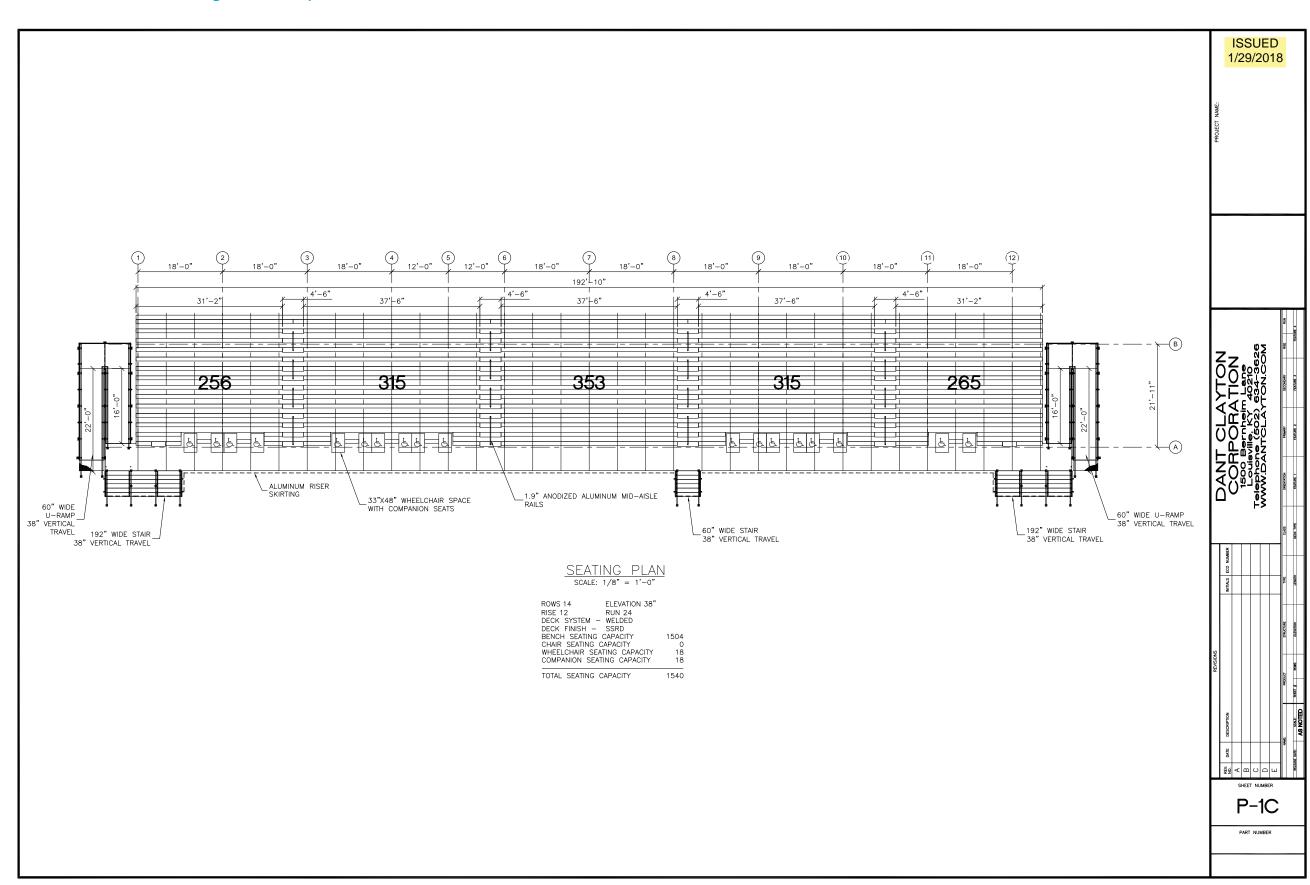


DESIGN DRAWINGS - Q-111 - Myrtha - Details



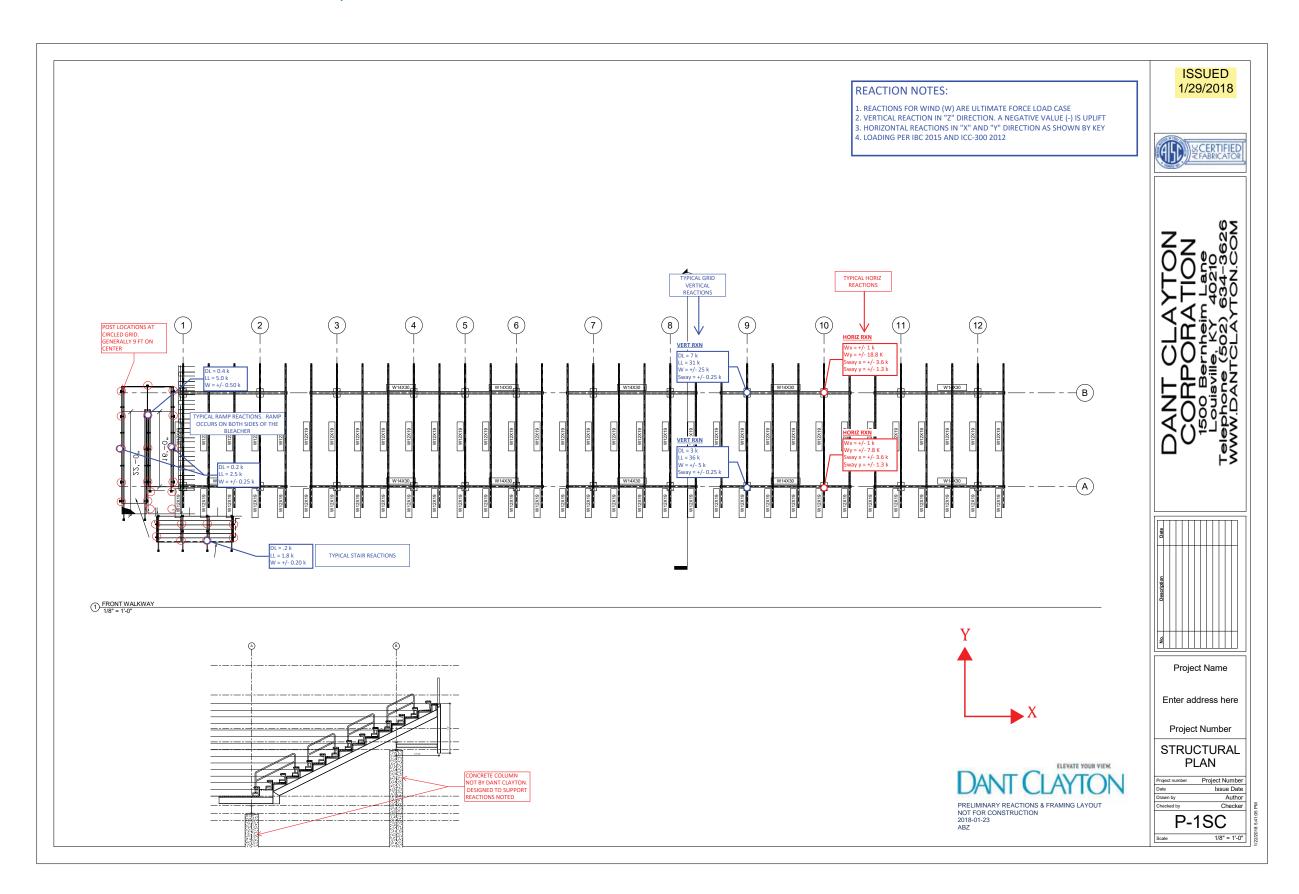


DESIGN DRAWINGS - P-1C - Seating Plan - Competition Bleachers



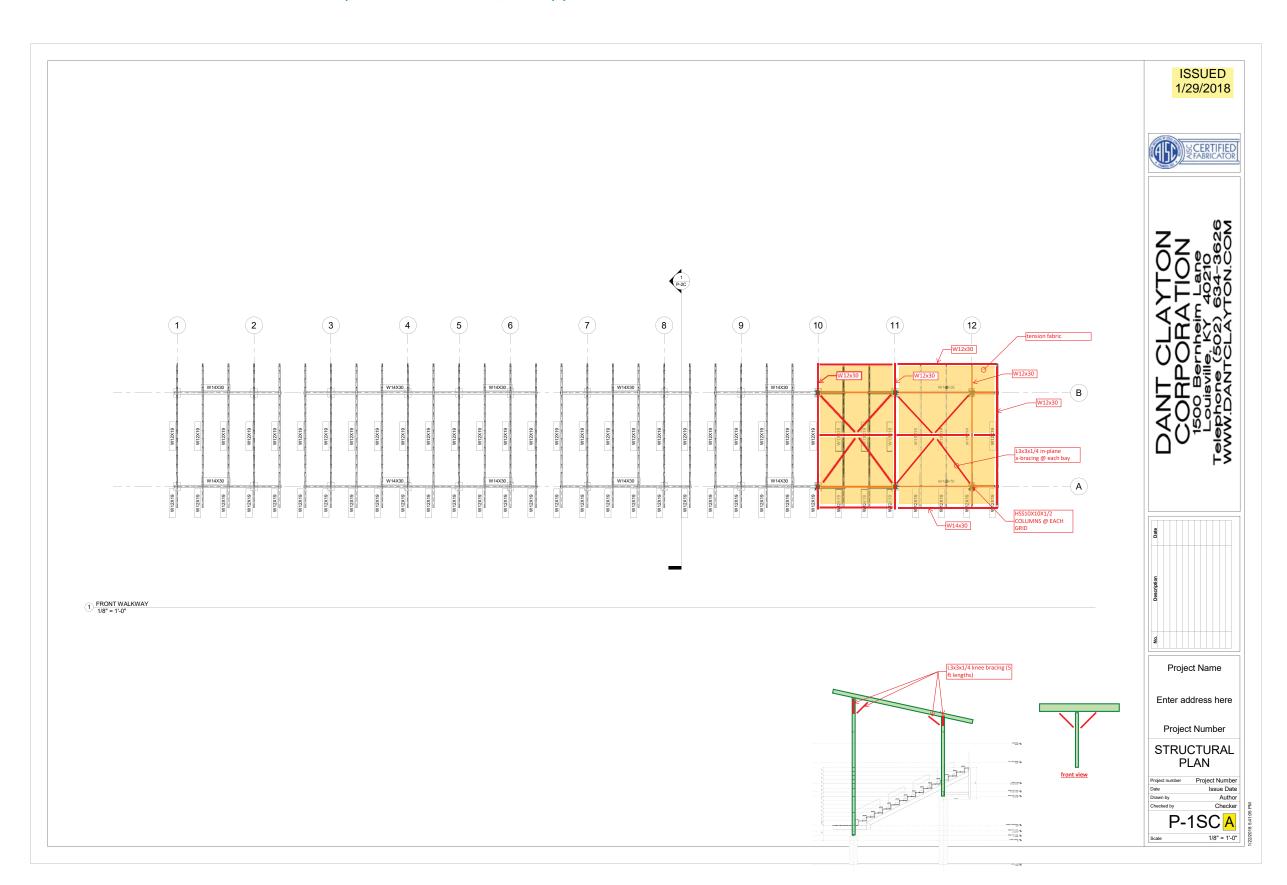


DESIGN DRAWINGS - P-1SC - Structural Plan - Competition Bleachers



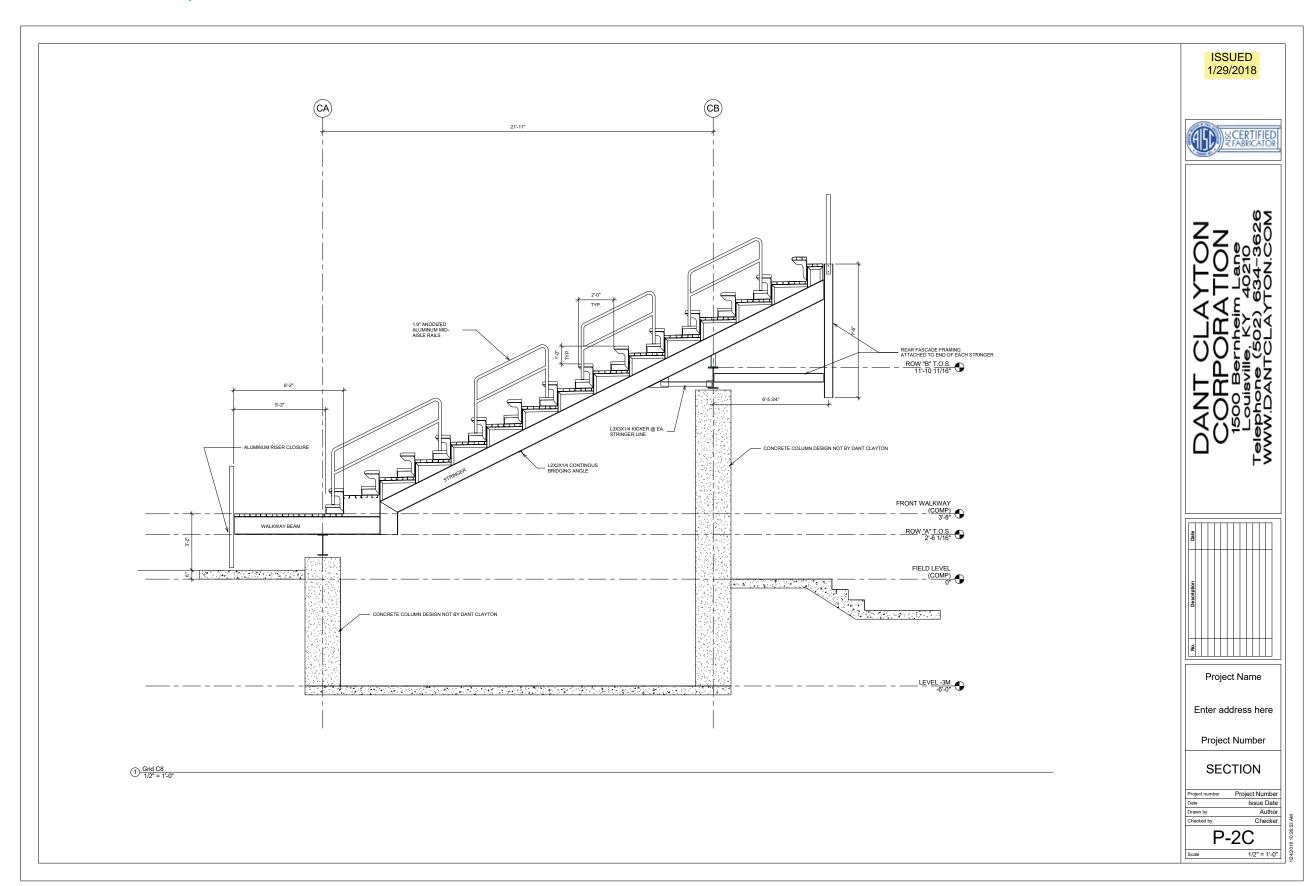


DESIGN DRAWINGS - P-1SCA - Structural Plan - Competition Bleachers w/ Canopy



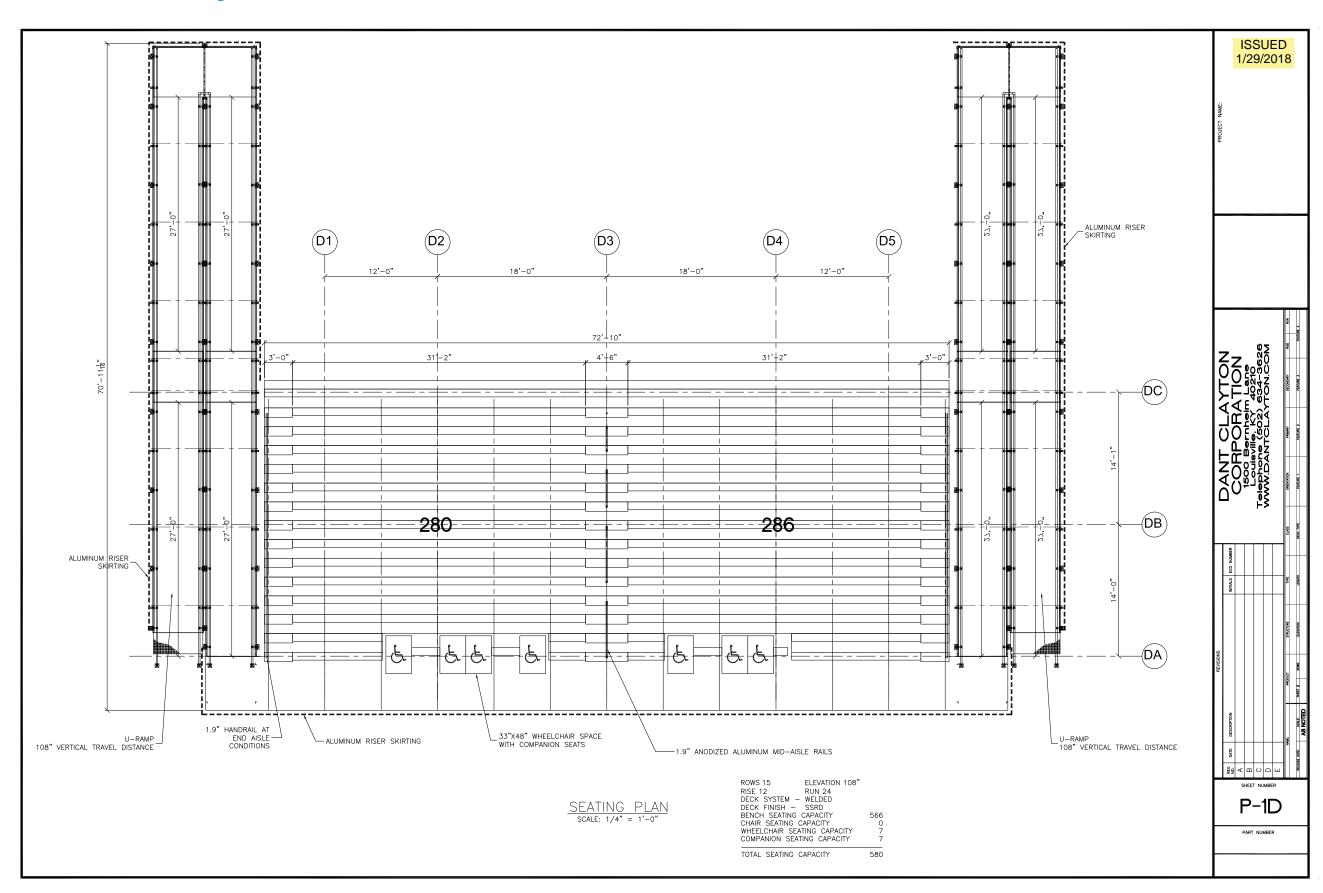


DESIGN DRAWINGS - P-2C - Competition Bleachers -Section



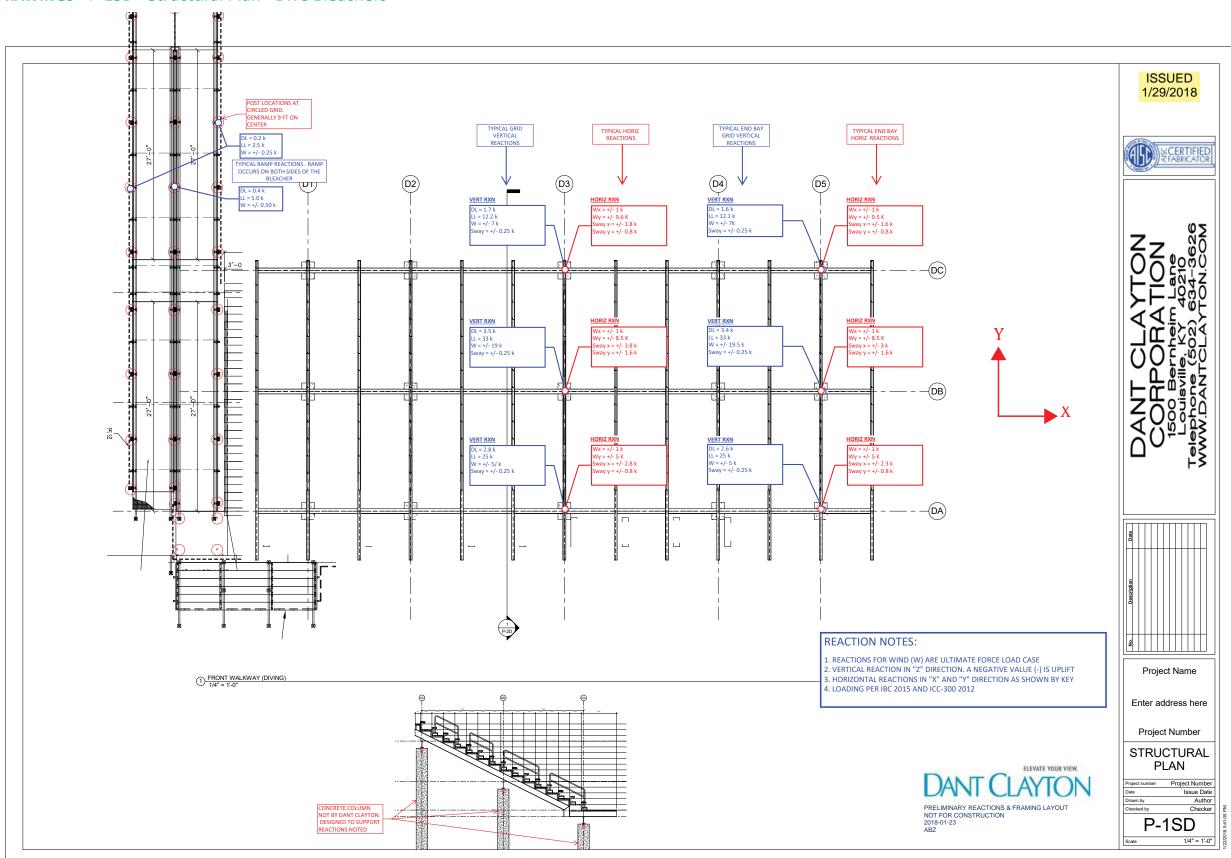


DESIGN DRAWINGS - P-1D - Seating Plan - Dive Bleachers



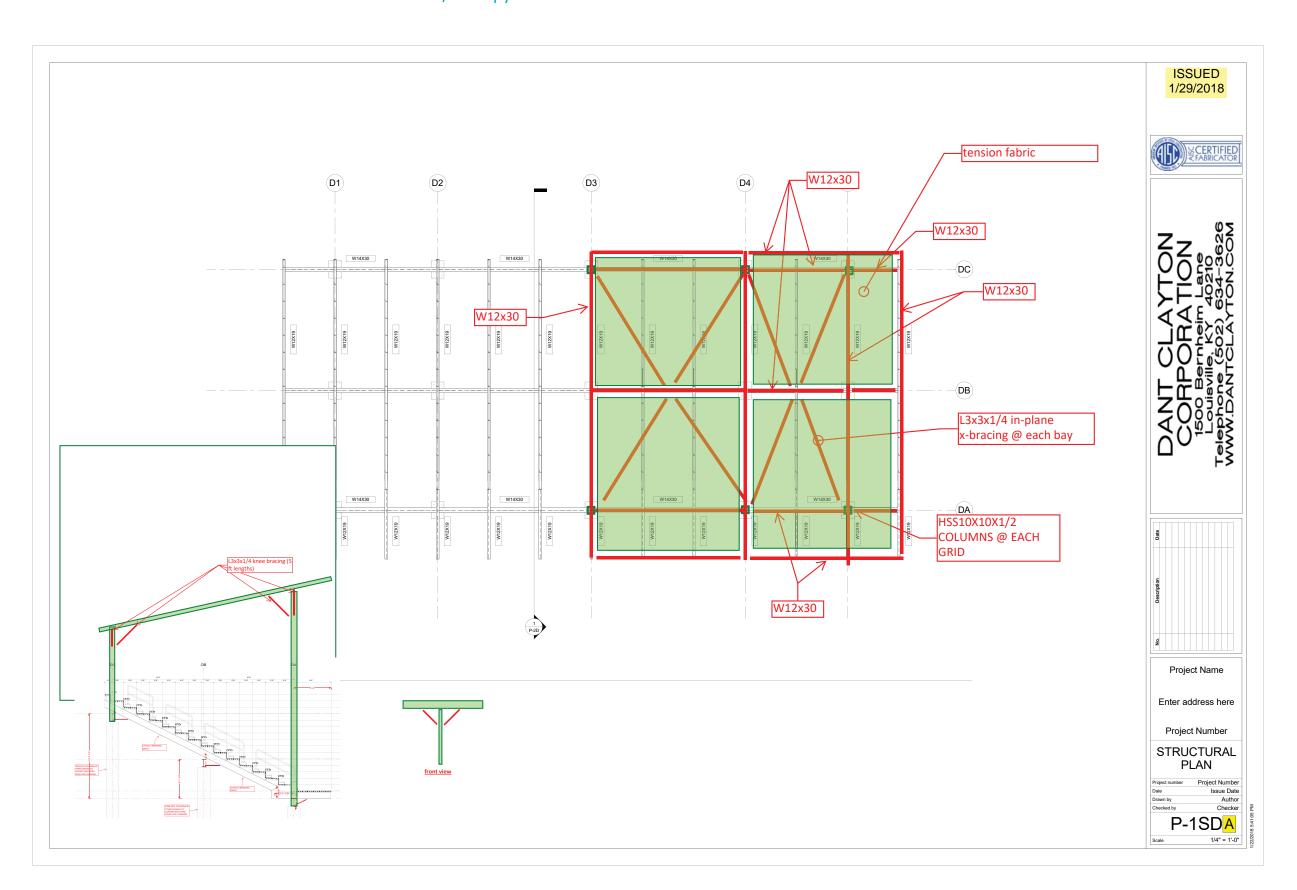


DESIGN DRAWINGS - P-1SD - Structural Plan - Dive Bleachers



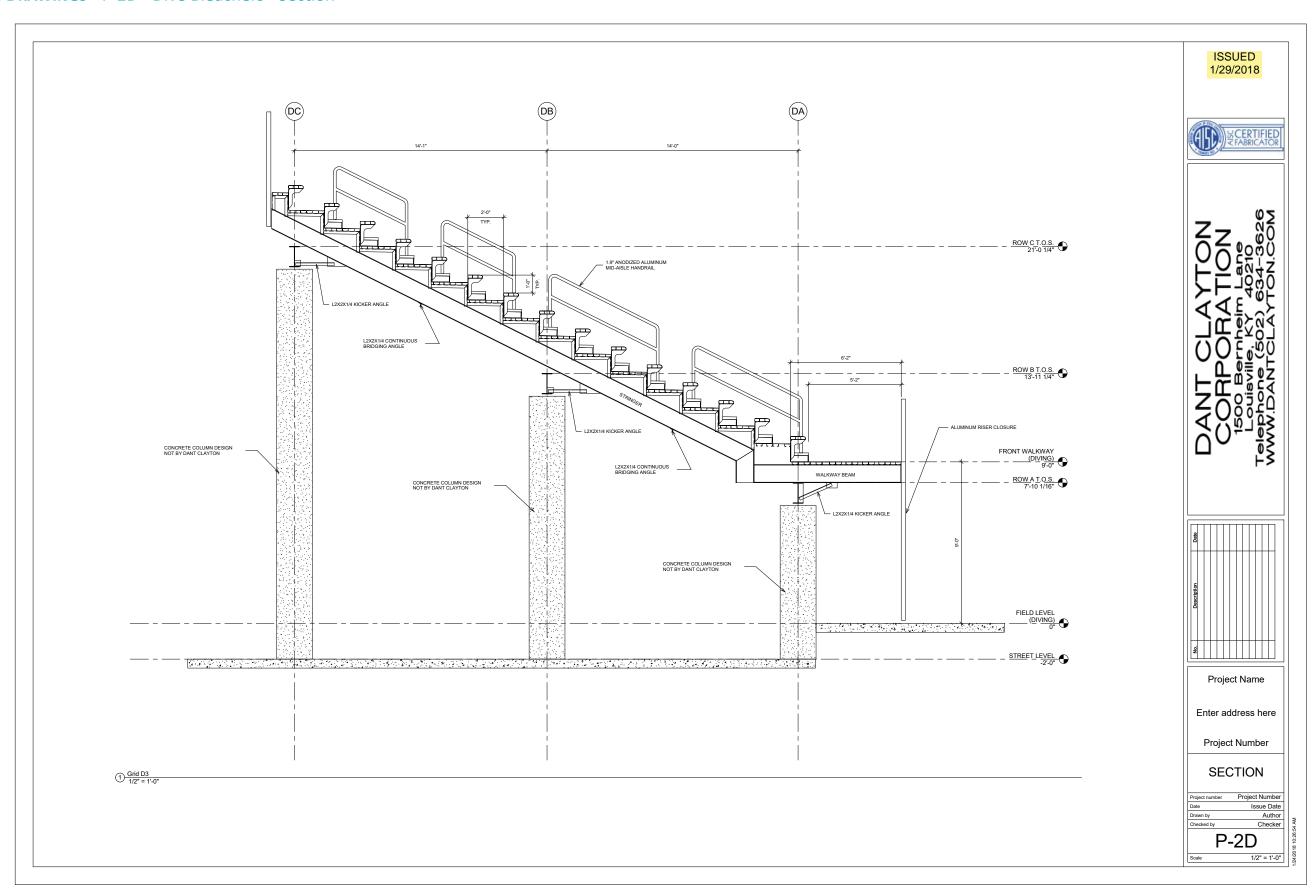


DESIGN DRAWINGS - P-1SDA - Structural Plan - Dive Bleachers w/ Canopy



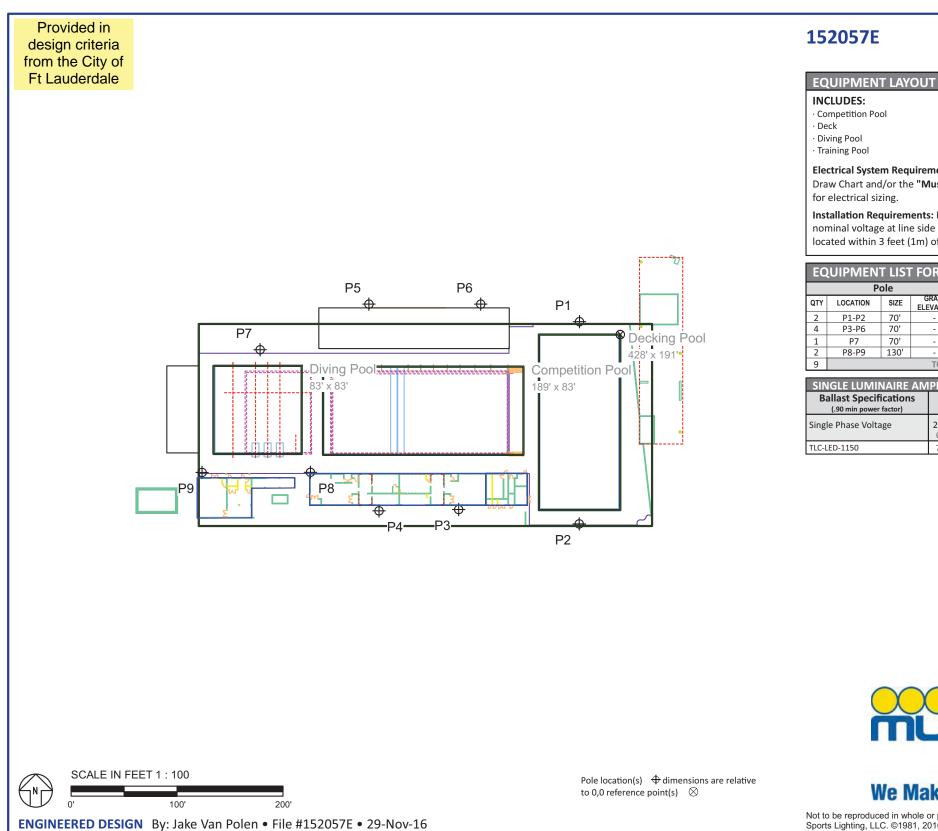


DESIGN DRAWINGS - P-2D - Dive Bleachers - Section





DESIGN DRAWINGS - MUSCO Lighting Design



ISSUED 1/29/2018

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary"

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN											
Pole				Luminaires							
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY POLE					
2	P1-P2	70'	1	70'	TLC-LED-1150	4					
4	P3-P6	70'	-	70'	TLC-LED-1150	10					
1	P7	70'	-	70'	TLC-LED-1150	7					
2	P8-P9	130'	-	130'	TLC-LED-1150	7					
9	TOTALS										

SINGLE LUMINAIRE AMPERAGE DRAW CHART											
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)										
Single Phase Voltage	208	220	240	277	347 (60)	380	480				
TLC-LED-1150	7.0	6.6	6.1	5.2	4.2	3.8	3.0				

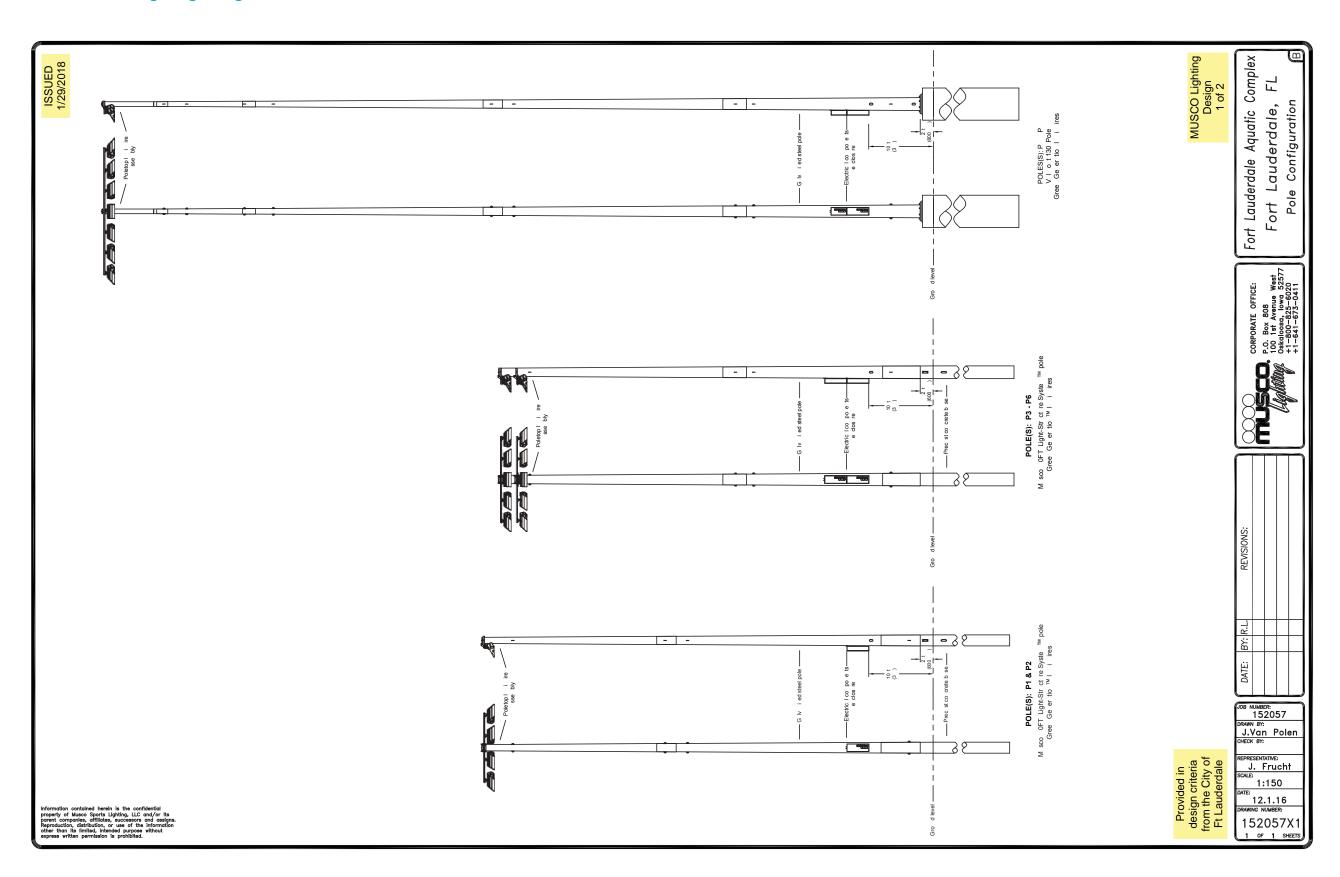


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EQUIPMENT LAYOUT



DESIGN DRAWINGS - MUSCO Lighting Design





MUSCO Lighting Cut Sheets 1 of 13

Light-Structure System

ISSUED 1/29/2018



www.musco.com
lighting@musco.com

CISH, 21% Noso Spira Lighting, LIC - N 179 wtS 4 - TLCED 119 - LS. and temps parent loared and pending.

We Make It Happen.



MUSCO Lighting Cut Sheets 2 of 13

ISSUED 1/29/2018

TLC for LED[®] Total Light Control[®]

Continuing the commitment to excellence... Keeping good lighting affordable... Guaranteed for 25 years, from foundation to poletop.

Light-Emitting Diode (LED) is a new tool but the issues for sports lighting are the same. For nearly a decade, the Musco Team has been testing the LED light source and applying it on projects where it was the best choice. While LED saved energy, for a typical recreational facility the hours of operation weren't great enough to offset the higher cost.

We've researched LED's distinctive challenges and advantages and applied our knowledge of light control to the unique characteristics of the diode, assuring the quality of lighting for which Musco is known.

We've paired our expertise in controlling light with the advancing output of LED to the point where we're confident it's a cost-effective option to consider for recreational facilities.

The result is a system that makes Musco's great lighting even better.

Better for players...

who want to perform their best and be able to track the entire flight of the ball.

Better for neighbors...

who don't want glare in or around their homes or lights left on when not in use.

Better for the night sky...

with bright, uniform light directed onto the field and not spilling above it.

Better for your budget ...

an affordable system that's built to last and control operating costs.

And...you can mark maintenance off your list for 25 years!

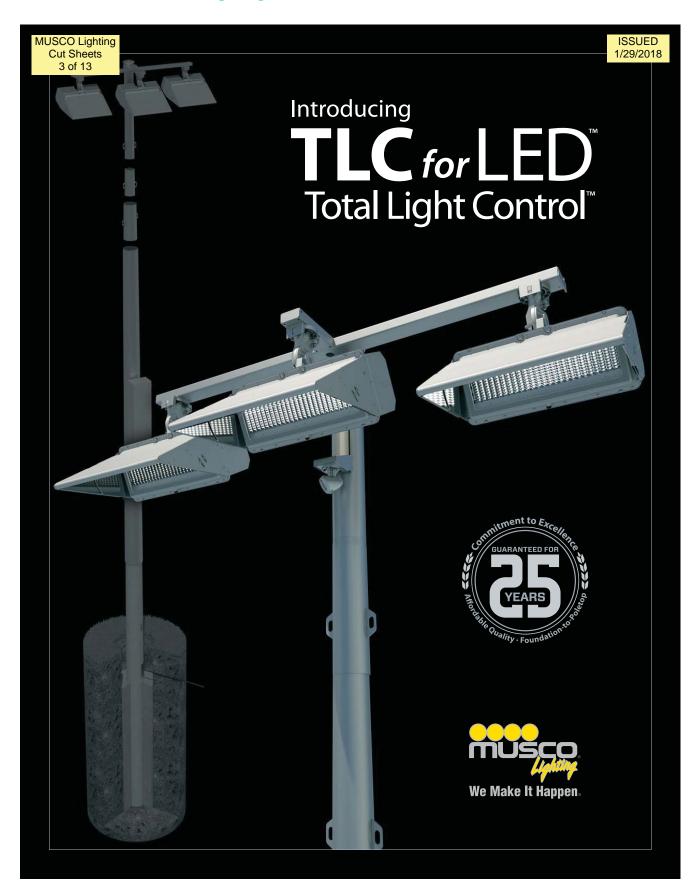
The Musco Team looks for the best combination of issues to achieve a solution to meet your needs—from structures, to quality of on-field light, to off-site impact, to energy and costs.

 $^{\circ}$ 2016 Musco Sports Lighting, LLC $\,\cdot\,$ U.S. and foreign patent(s) issued and pending

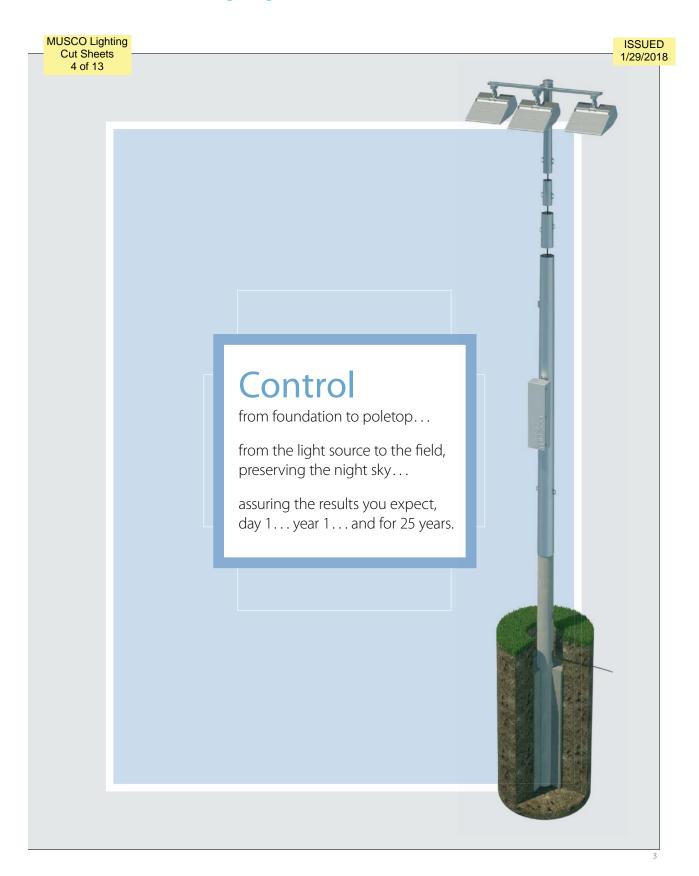
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MUSCO Lighting Cut Sheets 5 of 13

1/29/2018

Still Light-Structure System™...

5 Easy Pieces[™] complete from foundation to poletop.

Our Light-Structure System[™] has delivered long-term performance for thousands of customers around the world.

Lights, structures, and electrical components are engineered to work together. This assures the designed lighting gets in place and stays there over the life of the system, while also maintaining and protecting the operating environment so the components continue to function.

We've included features like easy to reach remote drivers, integrated grounding and surge protection to ensure the longevity of the LED's sensitive electronic components.

The Light-Structure System[™] adapts to support both LED and metal halide light sources.

25 years of proven performance

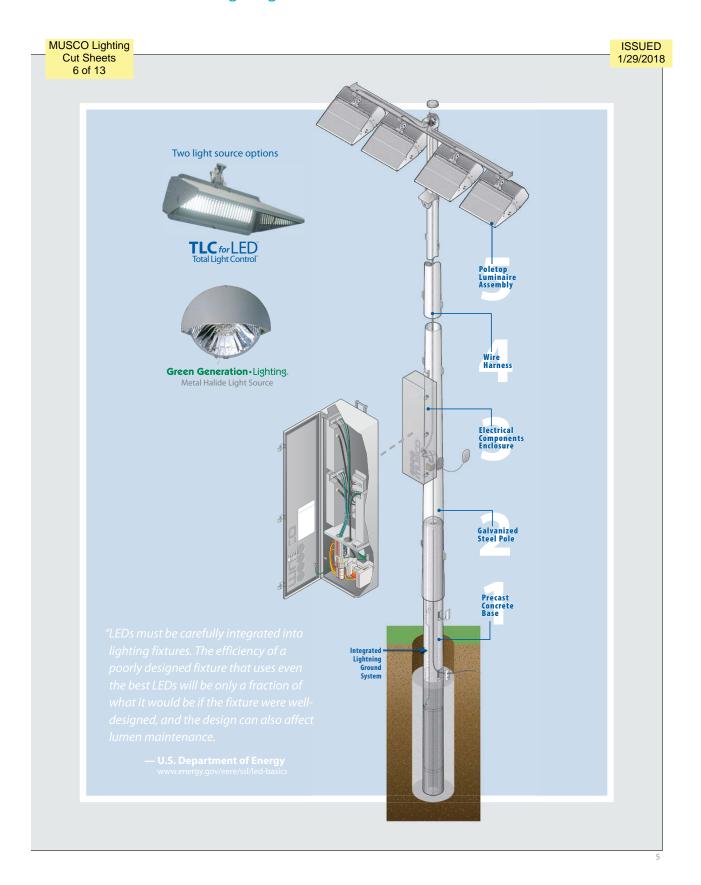


from the foundation to the poletop.

4









MUSCO Lighting Cut Sheets 7 of 13

ISSUED 1/29/2018

Musco can light a ballfield better than ever...

We create controlled light, not floodlights.

An LED floodlight is a serious step backward when it comes to the quality of light on your field. It may flood light into the neighborhood, into the night sky, and into the eyes of players.

New Tool

LED brings many benefits and new opportunities, but it's a tool, not a solution. Controlling the LED's intense, "rifle shot" of light is challenging. But with Total Light Control—TLC for LED", we're able to achieve things never before possible—from pinpoint precision, to instant on/off, to varying light levels for different needs and sports presentation theatrics.

Same Issues

The key issues in sports lighting haven't changed: generating light, projecting it onto the target, keeping it out of the neighborhood and night sky, and creating an operating environment that allows it to last in real world conditions. Musco is able to carve out the area to be lighted and dramatically cut off any impact on the surrounding area. We use more of the light produced by the fixture, lose less light, and don't abuse the neighborhood.

When you walk onto a Musco-lighted field, it just looks better.

"When you stand at home plate and look out to center field, there's no glare, but the field is totally bright and you see how the white of the ball pops, it looks amazing."

Tyson Kimm
 Vice President of Perfect Game USA,
 a major tenant at LakePoint Sports Community





San Diego Padres Petco Park · San Diego, California, USA



LakePoint Sports Community · Emerson, Georgia, USA



MUSCO Lighting Cut Sheets 8 of 13

ISSUED 1/29/2018

. for players, fans, and TV cameras.



Theatrics and special effects enhance fan and TV experience.



Pinpoint control from 1,100 feet away highlights the target area while preserving surrounding darkness.



Sensational event lighting with dimming saves energy for high-usage, multi-use venues.



Players enjoy quality lighting, no glare, and better ability to track the entire flight of the ball.



MUSCO Lighting Cut Sheets 9 of 13

ISSUED 1/29/2018

The neighbors will love it.

Musco cares as much about preserving darkness as it does about creating light.

Emitting light is easy. But LED fixtures that can't effectively control the light being emitted brings the unintended consequences of glare for players and neighbors, and wasteful spill into the night sky.

With Musco's Total Light Control—TLC for LED™, we've taken LED to a level of performance and precision never before seen in sports lighting. It means no disruptive glare into nearby homes and the preservation of dark skies above.

And it opens up new opportunities for where fields can be located within a community, and for existing fields that, until now, weren't able to install lights because of community push back.





"Glyndon Park is in a naturally wooded residential area. We didn't want to illuminate the homes of neighbors in the area. I initially wasn't supportive of putting in traditional lights. The product Musco has developed allows us to light this field, yet light nothing else around it."

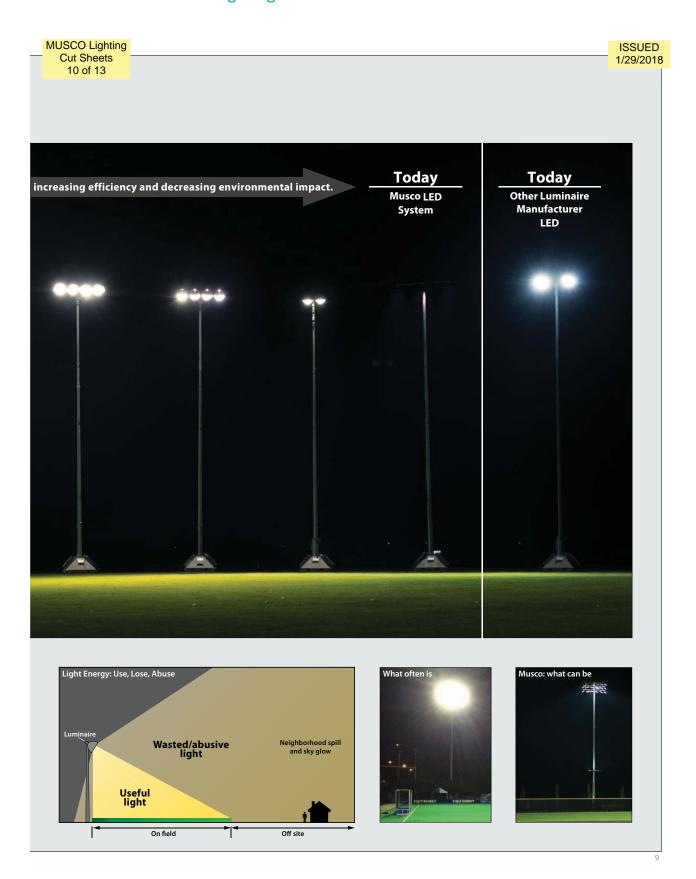
Cathy Salgado,
 Parks and Recreation Director, Vienna, VA



Glyndon Park Little League, Vienna, Virginia

8







MUSCO Lighting Cut Sheets 11 of 13

ISSUED 1/29/2018

And, your field is always ready to play.

Control-Link, scheduling and 24/7 monitoring assures trouble-free operation.

Here's a look at what the Musco Team has done in the last year as a partner in service to customers like you...

- Turned lights on and off remotely for more than 4 million games and events
- Conducted routine inspections and maintenance at over 11,000 fields
- Taken more than 350,000 calls, answering questions and helping with scheduling
- Carried out group lamp replacements on more than 40,000 metal halide fixtures
- Traveled enough miles to circle the equator 33 times

And here's what our customers enjoy for 25 years...

Peace of mind for 9,125 days knowing that if a problem arises, we'll be there, and a budget with virtually zero dollars spent on maintenance, increased staff productivity resulting from not having to worry about managing your lights, plus restful nights, free from midnight calls from unhappy neighbors about lights left on.

assuring the results you expect.

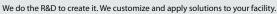


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MUSCO Lighting Cut Sheets 12 of 13

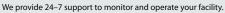
ISSUED 1/29/2018







We're on the road to support it for 25 years.



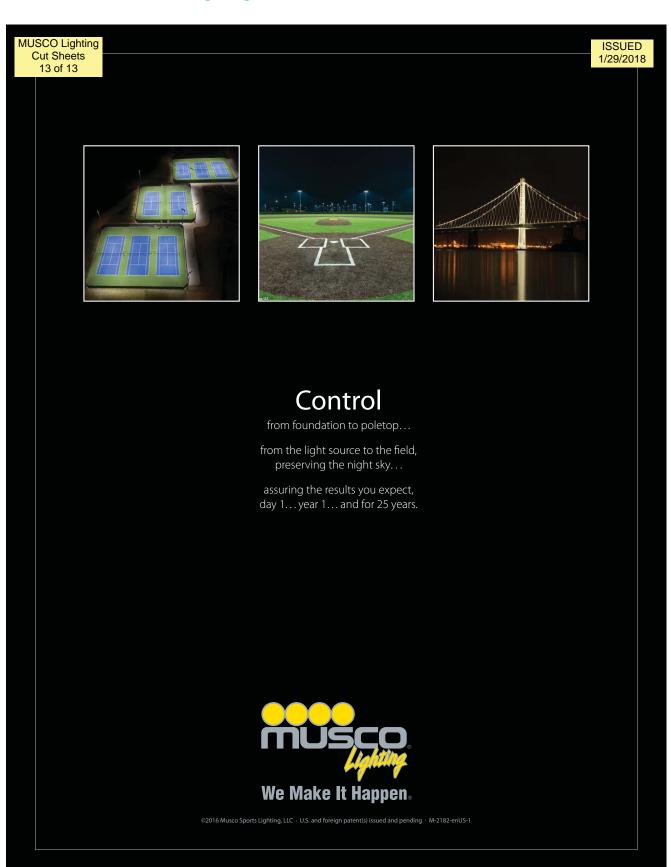




From metal halide to LED, Musco's Light-Structure System performs in real world conditions for 25 years, guaranteed.

We Make It Happen.



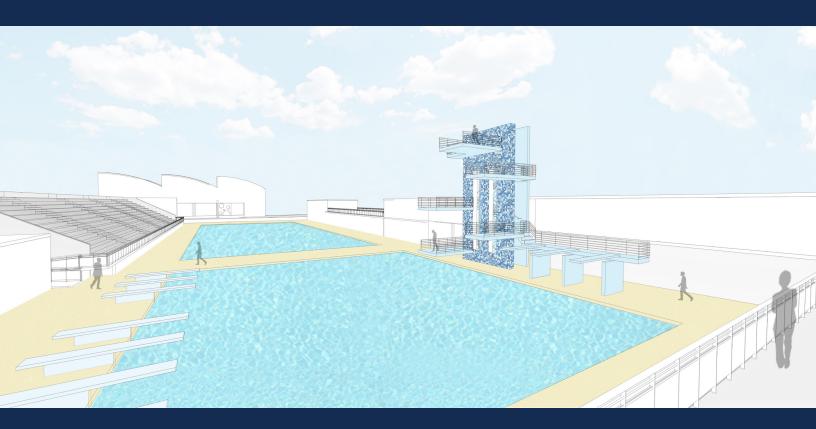






CITY OF FORT LAUDERDALE

Fort Lauderdale Aquatic Center Renovation RFP # 12072-483





Design-Build Team