DRAWING INDEX



CITY OF FORT LAUDERDALE

PROJECT #12412

PUMP STATION A-16 UPGRADE

WASTEWATER DESIGN CRITERIA PACKAGE

SE CORNER OF SE 11TH STREET & SE 3RD AVENUE

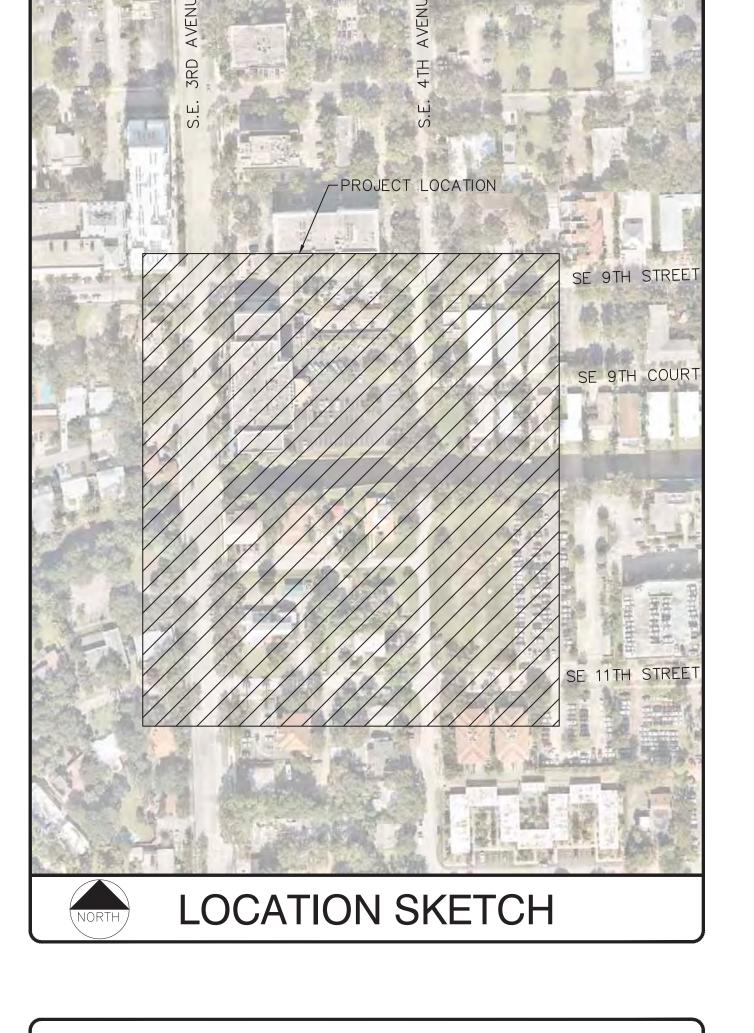
FORT LAUDERDALE, FLORIDA

PREPARED BY:



ATTENTION, THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION

THIS MUST BE TAKEN INTO ACCOUNT WHEN OBTAINING SCALED DATA.



PROJECT #12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PACKAGE
SE CORNER OF SE 11TH STREET & SE 3RD AVENUE

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS

HEATHER MORAITIS

STEVEN GLASSMAN

COMMISSIONER - DISTRICT II

ROBERT McKINZIE

COMMISSIONER - DISTRICT III

COMMISSIONER - DISTRICT III

COMMISSIONER - DISTRICT IV

PROJECT MANAGER JORGE HOLGUIN GARY R. RATAY NATHANIEL HAMMOND JOB TITLE
PROJECT MANAGER
ENGINEER OF RECORD
ELECTRICAL ENGINEER

PHONE NO. (954)828-5675 (954)535-5112 (404)769-6636

DATE: 03/10/21

CAD FILE: 12412-000-000COVR

DRAWING FILE No.: 4-142-31

DESIGN CRITERIA PACKAGE

FLOOD ZONE: AH BASE FLOOD ELEVATION (BFE): 6.0' NAVD 1988

CASE: UDP-V21004 Exhibit 4 Page 1 of 32

- 1. DESIGN BUILD FIRM SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.
- 2. REFER TO SPECIFICATION SECTION 01010 AND 15060 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
- 3. RECORD DRAWINGS USED FOR EXISTING FEATURES. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
- 4. DESIGN BUILD FIRM SHALL PROVIDE ALL FIELD SURVEY AND GEOTECHNICAL SERVICES BEFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. DESIGN BUILD FIRM SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
- 5. DESIGN BUILD FIRM SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES. DEPARTMENTS. AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
- 6. ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
- THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE DESIGN BUILD FIRM SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- 8. UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE DESIGN BUILD FIRM'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE DESIGN BUILD FIRM SHALL CONTACT SUNSHINE 811 AT

PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE DESIGN BUILD FIRM SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS

OF SUNSHINE 811.

- THE DESIGN BUILD FIRM SHALL EXERCISE CAUTION WHEN WORKING IN OR AROUND EXISTING CITY-OWNED UTILITIES. THE DESIGN BUILD FIRM SHALL NOTIFY THE CITY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION WITHIN TEN FEET OF A CITY-OWNED UTILITY SO THAT A CITY REPRESENTATIVE MAY BE PRESENT.
- 10. DESIGN BUILD FIRM SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE DESIGN BUILD FIRM'S EXPENSE.
- WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES, SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED. THI DESIGN BUILD FIRM SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OF THE WORK, IT WILL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRM TO COORDINATE WITH THE UTILITY FOR
- 12. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE DESIGN BUILD FIRM SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.

- 13. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 14. THE DESIGN BUILD FIRM SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
- 15. ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
- ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE DESIGN BUILD FIRM'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS.
- 17. PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON, C900 PVC, AND HDPE PIPE SHALL BE RESTRAINED JOINT AS SPECIFIED.
- 18. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF FORT LAUDERDALE.
- THE DESIGN BUILD FIRM WILL BE RESPONSIBLE FOR LOCATING MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE DESIGN BUILD FIRM SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR O THE ANTICIPATED DISRUPTION. THE DESIGN BUILD FIRM SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED

BROWARD COUNTY SCHOOL

STANDARDS INDEX NO. 600 AS WELL AS MEETING ALL ADA REQUIREMENTS.

UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.

THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.

IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.

ALTERNATE CROSSING/ROUTE.

IMPACT ANY BUS ROUTES:

RUTH MASTERS ROUTING

CITY FORT LAUDERDALE

ENGINEERING DETAILS

GNRL 002

GNRL 006

TOCHTERMANN FLEET SERVICE

TRAFFIC. THE FOLLOWING ARE MINIMUM REQUIREMENTS:

THE MAINTENANCE OF TRAFFIC PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE

PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR

THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION

ZONE SHALL BE MAINTAINED DURING STUDENT ARRIVAL AND DISMISSAL TIMES. IF THE CURRENT

WALKING SURFACE CANNOT BE MAINTAINED, THEN A TEMPORARY WALKABLE SURFACE SHALL BE

DURING THE ENTIRE LENGTH OF THE PROJECT ENCOMPASSING THE ENTIRE WALK ROUTE WITH

ALL CONSTRUCTION EQUIPMENT ACTIVITY AROUND ANY DESIGNATED CROSSWALK SHALL CEASE

TO OPERATE DURING THE STUDENT ARRIVAL AND DISMISSAL TIMES. ALL CONSTRUCTION

EQUIPMENT ACTIVITY ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING

4. IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE

OF TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER TO ESTABLISH AN

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ANY NECESSARY PAVEMENT, ROAD

ROCK, PAVEMENT MARKINGS AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR

CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ALL LOCATIONS

OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, BUT ONLY

THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY

THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION,

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE FOLLOWING BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT PERSONNEL IF CONSTRUCTION WILL

(954) 847-2600 OR AT BROWARD@TRAFFIC.ORG TO DISCUSS ALL NECESSARY SAFETY MEASURES.

PHONE

STUDENT TRANSPORTATION & (754) 321-4472 VINCENT.HARRELL@BRO WARDSCHOOLS.COM

STUDENT TRANSPORTATION & (754) 321-4400 MARY.TOCHTERMANN@B

BROWARD COUNTY SCHOOL MOT NOTES

(754) 321-4400 RUTH MASTERS@BROWA

EXT. # 2006 ROWARDSCHOOLS.COM

EXT. # 2309 RDSCHOOLS.COM

SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL

COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, A MINIMUM

CANNOT BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS

PROPER PEDESTRIAN OPENINGS AT DESIGNATED CROSSINGS IN COMPLIANCE WITH FDOT DESIGN

CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY

MAINTENANCE OF TRAFFIC NOTES:

INCIDENTAL.

- 20. IT WILL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRM TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
- 21. DESIGN BUILD FIRM SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.
- 22. ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
- 23. ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND/OR REQUIREMENTS.
- 24. DESIGN BUILD FIRM SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
- 25. DESIGN BUILD FIRM SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE, BROWARD COUNTY AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE DESIGN BUILD FIRM.

SHELD - BOWNS COUNT SOCIAL NET METER. Tuelds Substitute 20, 2019.

ENGINEERING DETAILS

BYPLOC 90-00, JONE REPALATION REQUIREMENTS Transp. Implicitie 25, SM

ATTEND THE PRE-CONSTRUCTION MEETING.

REQUIREMENTS OF THE APPROVED MOT.

- 26. DESIGN BUILD FIRM SHALL SUBMIT MOT PLANS FOR APPROVAL BY THE CITY WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
- 27. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN

- SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
- 29. DESIGN BUILD FIRM SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- 30. DESIGN BUILD FIRM SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
- 31. THE DESIGN BUILD FIRM SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE DESIGN BUILD FIRM SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- 32. DESIGN BUILD FIRM SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAYED WITH ASPHALT.
- 33. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. DESIGN BUILD FIRM SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.

UPON COORDINATION WITH THE AFOREMENTIONED PERSONNEL, AND IF DEEMED NECESSARY, A PRE-CONSTRUCTION MEETING WILL BE HELD TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY

NECESSARY ARRANGEMENTS FOR REPOUTING. THE SPECIAL PROJECTS COORDINATOR FROM THE

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, WILL BE NOTIFIED AND MAY

TRAFFIC PLAN (MOT), SPECIFYING THE ABOVE SCHOOL/PEDESTRIAN CONDITIONS, THROUGH THE

PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

ENSURING THAT ALL WORK ASSOCIATED WITH THE PROJECT IS IN COMPLIANCE WITH ALL THE

11. THE CONTRACTOR SHALL ENSURE THAT THERE ARE NO SPEED LIMIT SIGNS INSTALLED WITHIN THE

DESIGNATED REDUCED SPEED SCHOOL ZONE AT ANY TIME THROUGHOUT THE PROJECT.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION OR THE LOCAL MUNICIPALITY, DEPENDING ON

THE ROADWAY JURISDICTION. THE CONDITIONS OUTLINED IN THE MOT ARE FULLY EFFECTIVE AS

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN APPROVED MAINTENANCE OF

- 28. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR 34. DESIGN BUILD FIRM SHALL RESTORE EXISTING PAVEMENT AND PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
 - 35. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS. STANDARDS. AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W's WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
 - 36. THE DESIGN BUILD FIRM SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS FOR CITY APPROVAL PRIOR TO ORDERING MATERIALS AND INSTALLATION.
 - 37. EXISTING GAS MAINS SHALL BE IDENTIFIED BY THE APPROPRIATE UTILITY, PRIOR TO START OF CONSTRUCTION.
 - 38. REFER TO SECTION 02065 AND DEMOLITION PLANS FOR DEMOLITION DETAILS.
 - 39. REFER TO DIVISIONS 2 AND 15 FOR UTILITY SPECIFICATIONS. **UTILITY CONTACTS:**

TECO PEOPLES GAS 5101 NW 21ST AVENUE FORT LAUDERDALE, FL 33309 PHONE: (954)453-0794 CONTACT: DAVID RIVERA

8601 WEST SUNRISE BOULEVARD PLANTATION, FL 33322 PHONE: (305)428-05010 CONTACT: OTIS T. KEEVE

7201 CYPRESS ROAD. CSF-CB PLANTATION, FL 33317 PHONE: (954)717-2057 CONTACT: TROY LEWIS

LEGEND

FLORIDA POWER & LIGHT COMPANY CITY OF FORT LAUDERDALE MOT 290 NE 3RD AVENUE FORT LAUDERDALE, FL 33301 PHONE: (954)828-3721 CONTACT: KRISTIN THOMPSON

ABBREVIATIONS

CONC.

F.H.

GAS

INV.

SAN

SMH

S.V.

= CHAIN LINK FENCE CMP = CORRUGATED METAL PIPE

= CONCRETE = FIRE HYDRANT

= GAS MAIN = PIPE INVERT

OHW = OVERHEAD WIRES = RIGHT-OF-WAY LINE R/W RCP = REINFORCED CONCRETE PIPE

> = SANITARY MANHOLE = SEWER VALVE

T.O.P. = TOP OF PIPE UNK. = UNKNOWN TREE TYPE U.T.O. = UNABLE TO OBTAIN DATA

U.V. = UNKNOWN VALVE W.V. = WATER VALVE B.C.H.C.E.D. = BROWARD COUNTY HIGHWAY CONSTRUCTION

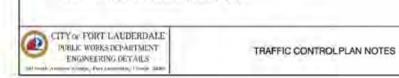
= SANITARY SEWER PIPE

AND ENGINEERING DEPARTMENT. = BROWARD COUNTY TRAFFIC AND ENGINEERING DEPARTMENT

THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 600-660. MUTCD AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR'S RESPONSE TIME TO ALL REPORTED MALFUNCTIONS OF TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS SHALL BE NO MORE THAN TWO (2) HOURS AND SHALL RESTORE ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT TO ITS LEVEL OF OPERATION PRIOR TO THE MALFUNCTIONING WITHIN TWENTY-FOUR (24) HOURS. DURING THIS TIME THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE TEMPORARY TRAFFIC CONTROL DEVICES, FLAGGLER PERSONNEL AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW OF TRAFFIC AT THE AFFECTED WORK ZONE. THE ENGINEER OR THE CITY OF FORT LAUDERDALE SHALL APPROVE ALL MODIFICATIONS PRIOR TO THEIR IMPLEMENTATION.

TRAFFIC CONTROL PLAN NOTES:

- THE CONTRACTOR SHALL MAINTAIN PROPER OPERATION OF ALL TRAFFIC SIGNAL LOOP ASSEMBLIES AND LOOP DETECTORS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CORRECT ALL LOOP ASSEMBLY/DETECTOR MALFUNCTIONS WITHIN 24 HOURS OF NOTIFICATION OF SUCH MALFUNCTIONS BY THE ENGINEER
- 3. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING.
- A REGULATORY SPEED OF 25 MPH SHALL BE POSTED WITHIN THE LIMITS OF THE WORK ZONE.
- 5. EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION SIGNS AND MARKINGS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION. REMOVE AND REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611
- 6. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CITY OF FORT LAUDERDALE FOR ANY AND ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED AT NIGHT, NO LANE CLOSURE SHALL BE ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM, MONDAY THROUGH FRIDAY UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. SEE SPECS FOR UST OF UTILITY COMPANIES
- TRAFFIC CONTROL ON ALL COUNTY RIGHTS-OF-WAY SHALL MEET THE ADDITIONAL REQUIREMENTS OF THE BROWARD COUNTY ENGINEERING DEPARTMENT.
- 10. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S TO
- 11. THE CONTRACTOR SHALL ALSO COORDINATE THE CONSTRUCTION SCHEDULE WITH FDOT, BROWARD COUNTY AND THE CITY OF FORT LAUDERDALE TO AVOID LANE CLOSURES WHICH WOULD ADVERSELY AFFECT TRAFFIC DURING RUSH HOUR.



BROWARD COUNTY COMMUNICATION NOTES

- THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS COMMUNICATION INFRASTRUCTURE" DOCUMENT. PLEASE REFER TO (BCTED'S) COMMUNICATIONS POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS. IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT WWW.BROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.
- IF THERE ARE COPPER INTERCONNECT CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
- 3. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
- 4. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.
- 5. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION

PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE TRAFFIC SIGNAL TECHNICIAN III AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON: WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION, THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

LITILITY OWNER CONTACT PERSON: INTERCONNECT COMMUNICATIONS CABLES - (ROBERT BLOUNT) BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) 954-847-2745

BEFORE YOU DIG It's fast. It's free. It's the law.

KNOW WHAT'S BELO

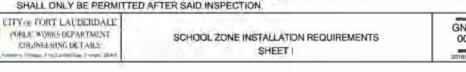
ALWAYS CALL 81

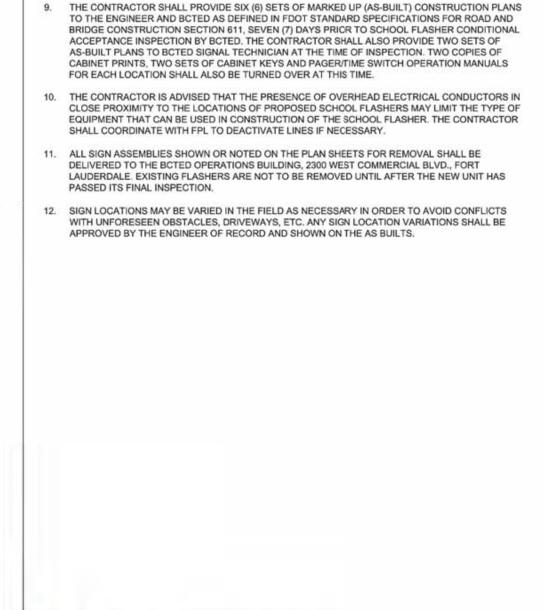
www.callsunshine.com

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINE DING DETAILS BROWARD COUNTY COMMUNICATION NOTES ENGINEETHING DET ALLS

SCHOOL ZONE INSTALLATION REQUIREMENTS WITHIN BROWARD COUNTY:

- THE CONTRACTOR SHALL BE GOVERNED BY THE LATEST EDITIONS OF THE FOLLOWING MANUALS: A. THE FDOT DESIGN STANDARDS
- B. THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND ERIDGE CONSTRUCTION C. THE BROWARD COUNTY MINIMUM STANDARDS APPLICABLE TO PUBLIC RIGHTS-OF-WAY
- FOR THE LATEST EDITION OF SCHOOL FLASHER DETAIL SHEETS AND MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIANS NOTES, SEE THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S WEB SITE AT: HTTP://WWW.BROWARD.ORG/TRAFFIC/PAGES/PUBLICATIONS.ASPX.
- THE "MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIAN" NOTES SHALL APPEAR ON THE PLAN AS INDICATED. DEPENDING ON THE JURISDICTION OF THE ROADWAY THE CONTRACTOR WILL UTILIZE EITHER THE BCTED OR FDOT VERSION, WHICH WILL BE DETERMINED BY THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED.
- SCHOOL FLASHER PLANS ARE VALID FOR EIGHTEEN (18) MONTHS FROM DATE OF APPROVAL. AFTER THAT DATE, PLANS SHALL BE RESUBMITTED FOR APPROVAL.
- NO SCHOOL FLASHER AND/OR ASSOCIATED EQUIPMENT SHALL BE PLACED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY OR ON PRIVATE PROPERTY WITHOUT THE PRIOR ACQUISITION OF THE NECESSARY TRAFFIC ENGINEERING EASEMENTS BY THE CONSULTANT/CONTRACTOR, THESE EASEMENTS SHALL BE LARGE ENOUGH TO ALLOW ACCESS TO THE TRAFFIC ENGINEERING EQUIPMENT BY TECHNICIANS AND BY LARGER VEHICLES WHICH MAY REQUIRE ACCESS TO THE EQUIPMENT. THE SIZE AND LOCATION OF THE EASEMENTS WILL BE DETERMINED ON A CASE-BY-CASE BASIS. THE EASEMENTS SHALL BE RECORDED DOCUMENTS AND A COPY OF THE FULLY EXECUTED RECORDED EASEMENT SHALL BE PROVIDED TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR PRIOR TO INSTALLATION.
- PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED FOR APPROVAL, ALL OF THE EQUIPMENT SPECIFICATIONS (I.E. SHOP DRAWINGS) FOR ALL MATERIALS PROPOSED FOR THE PROJECT, SEE SECTION 693 OF THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR SUBMITTAL DATA REQUIREMENTS INCLUDED IN THE SUBMITTAL SHALL BE SHOP DRAWINGS FOR GROUND MOUNT AND/OR MAST ARM DETAILS, AS APPLICABLE
- IF ELECTRICAL SERVICE IS REQUIRED, THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO BCTED, SYSTEMS SECTION - DESIGN ENGINEER, TO PROVIDE BILLING AUTHORIZATION TO FPL. THIS IS REQUIRED BEFORE ELECTRICAL SERVICE CAN BE OBTAINED. THE REQUEST SHALL INCLUDE A STATEMENT CERTIFYING THAT THIS ELECTRICAL INSTALLATION MEETS OR EXCEEDS ALL APPLICABLE REQUIREMENTS OF ALL APPLICABLE CODES AND IS NOW READY FOR CONNECTION TO FPL FACILITIES, ALSO INCLUDE THE DATE SERVICE IS REQUIRED BY IN THE REQUEST.
- THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED EITHER BY FAX; 954-847-2700 OR E-MAIL; TRAFFIC@BROWARD ORG TO SCHEDULE AN INSPECTION OF THE COMPLETE INSTALLATION, INCLUDING THE INTERIM SIGNING AND PAVEMENT MARKING PLAN. ACTIVATION OF THE FLASHERS SHALL ONLY BE PERMITTED AFTER SAID INSPECTION.





BROWARD COUNTY SCHOOL MOT NOTES

SHEET 2

WWW.KIMLEY-HORN.COM REGISTRY No. 696

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247

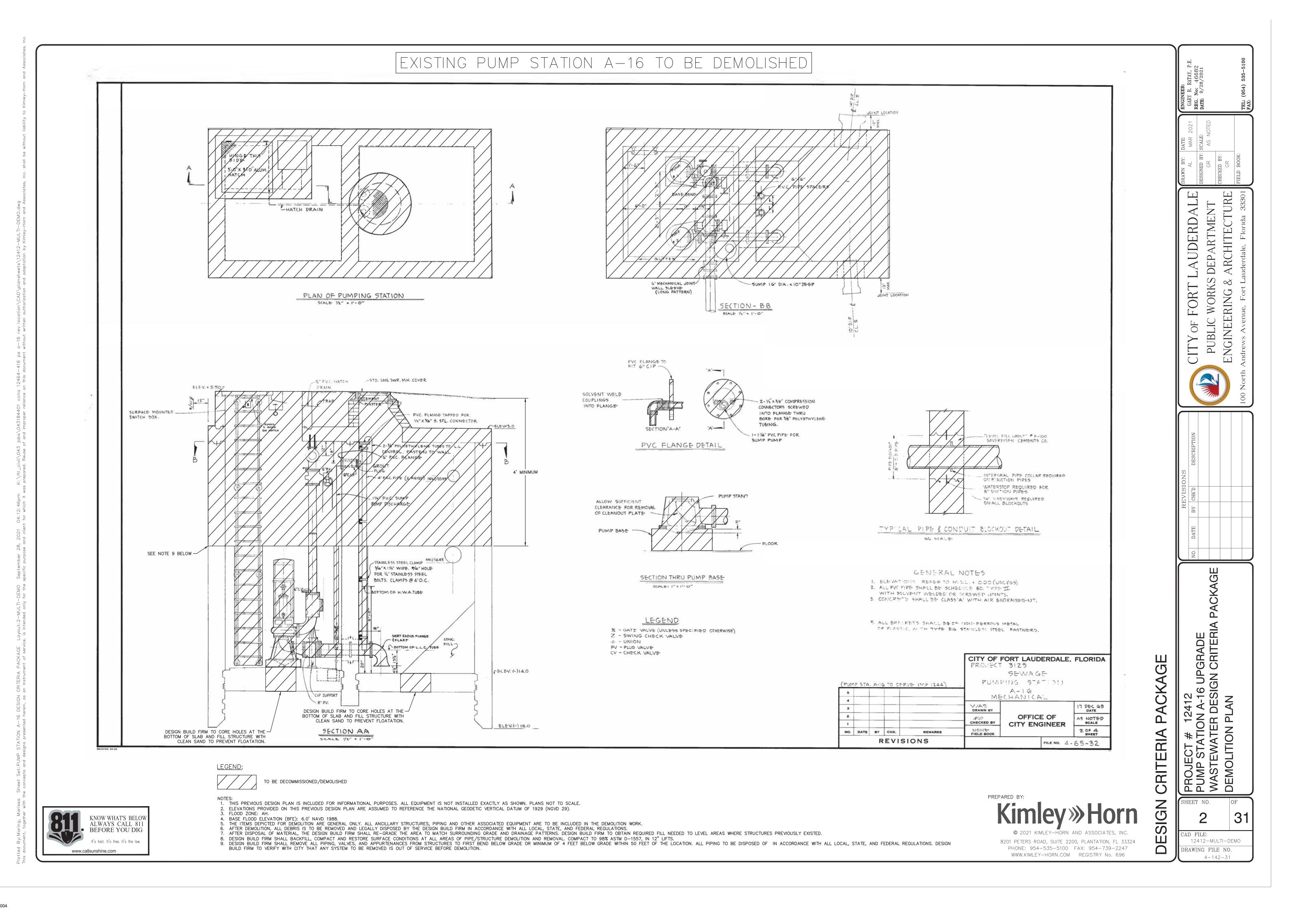
RADI Ω 6 UP(2 16 SI 241 I A-DE TATION A

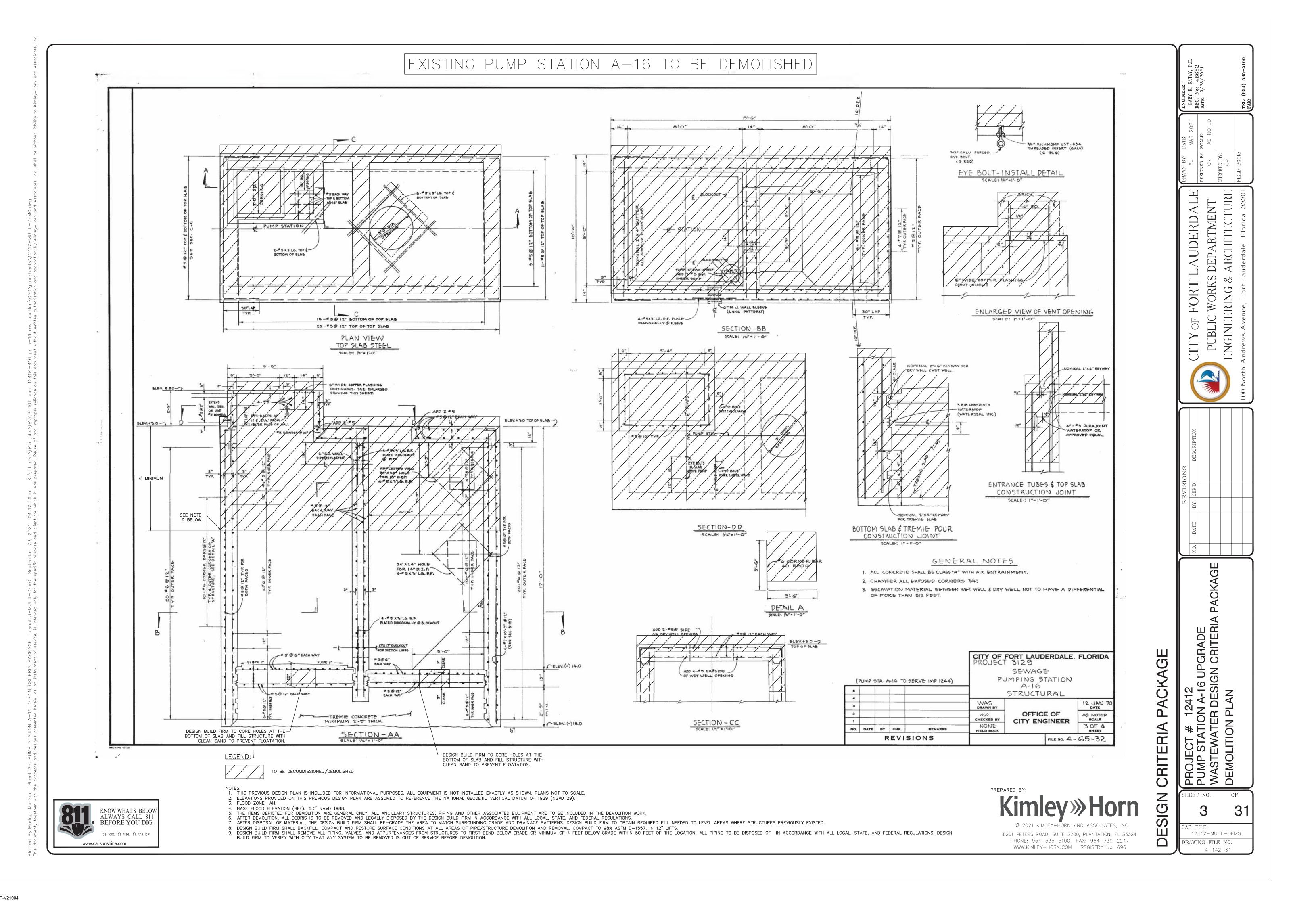
B

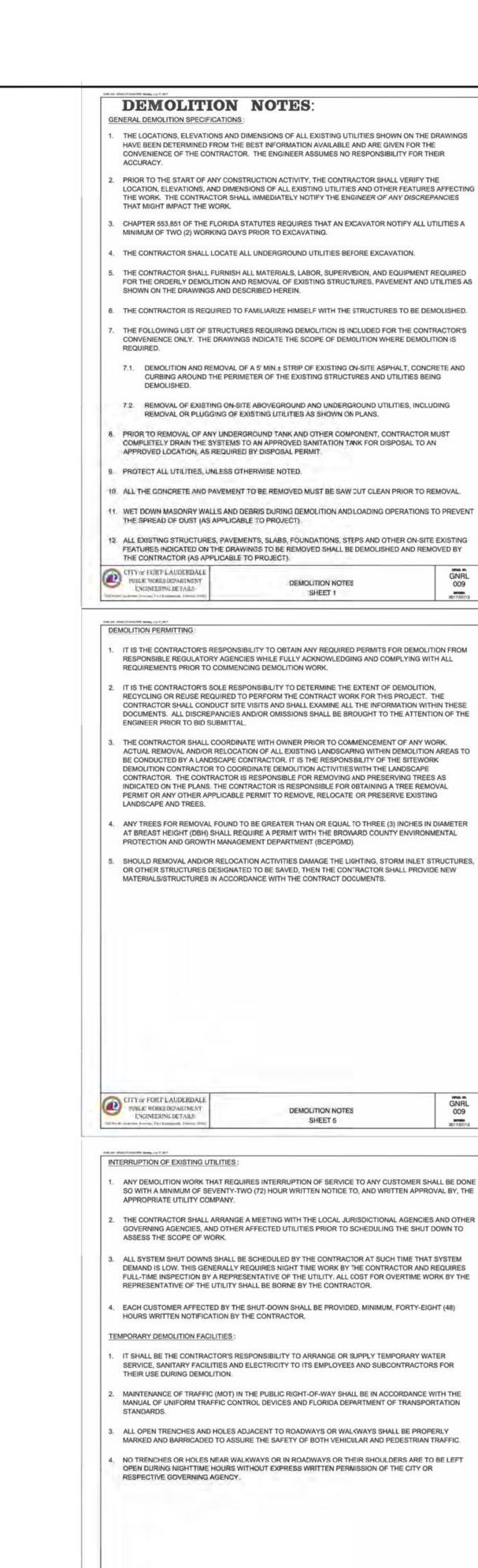
AD FILE: 12412-MULTI-NOTE RAWING FILE NO. 4-142-31

CASE: UDP-V21004 Page 2 of 32

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT SCHOOL ZONE INSTALLATION REQUIREMENTS ENGINELIUNG DUTAILS

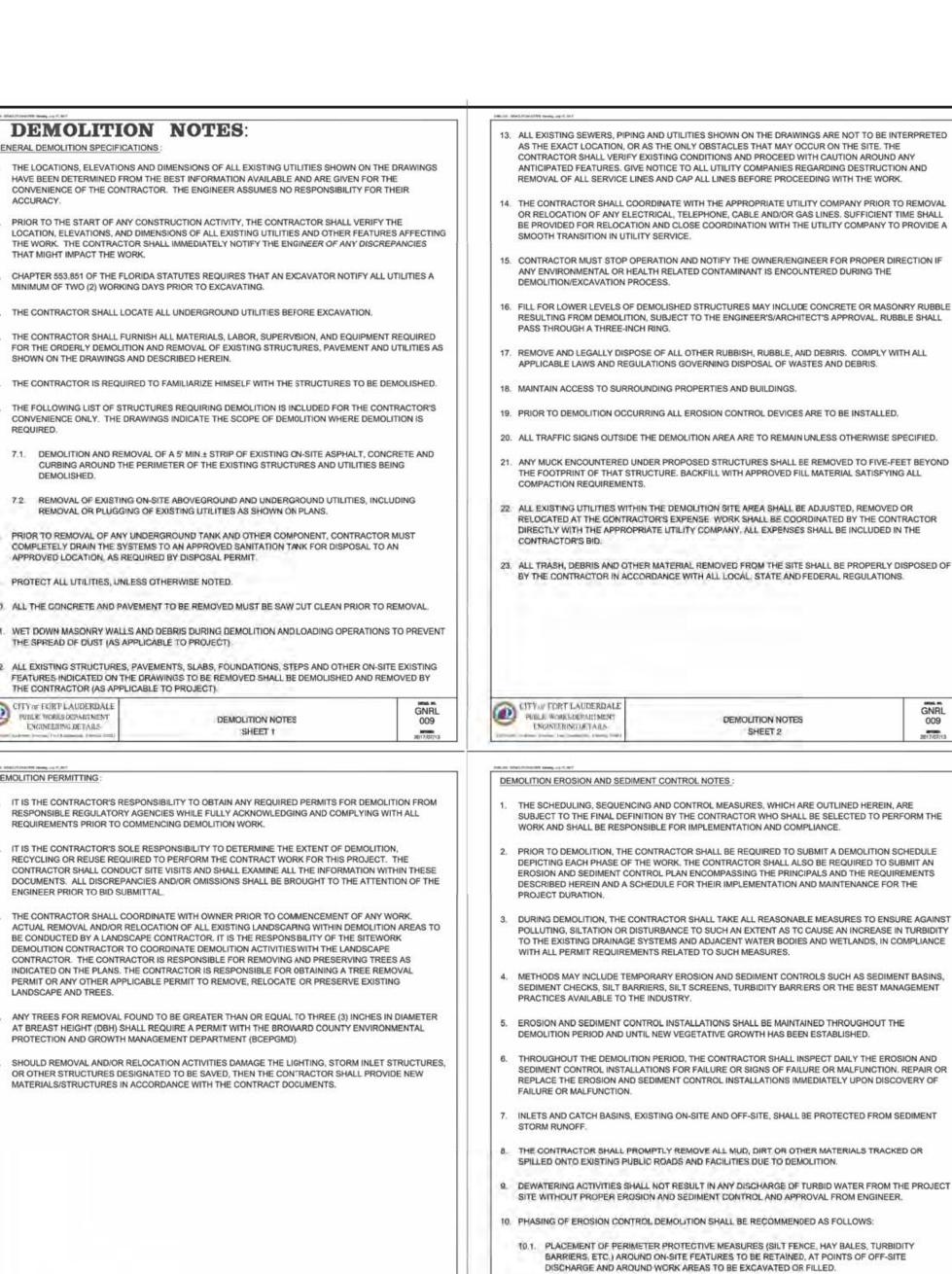






CITY OF FORT LAUDERDALE.
PUBLIC WORKS DEPARTMENT

ENGINEERING DETAILS



10.2. REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEMOLITION AREA TO MINIMIZE FLOW THROUGH

IMPLEMENT A WASTE MANAGEMENT PLAN FOR APPROVAL BY THE OWNER. PROVIDE HANDLING

DESIGNATE A WASTE MANAGEMENT COORDINATOR TO BE RESPONSIBLE FOR IMPLEMENTING.

WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.

PRESENT AT PROJECT SITE FULL-TIME FOR DURATION OF PROJECT.

LOCATION ESTABLISHED FOR SALVAGE, RECYCLING AND DISPOSAL.

AS APPROPRIATE FOR THE WORK AT THE PROJECT SITE.

MATERIALS AT EACH CONTAINER AND BIN.

CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION AND OTHER ITEMS AS NEEDED TO IMPLEMENT THE

MONITORING AND REPORTING STATUS OF WASTE MANAGEMENT WORK PLAN. COORDINATOR SHALL BE

TRAIN WORKERS, SUBCONTRACTORS AND SUPPLIERS ON PROPER WASTE MANAGEMENT PROCEDURES

DISTRIBUTE A WASTE MANAGEMENT PLAN BEFORE WORK BEGINS. REVIEW PLAN PROCEDURES AND

SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH AND DEBRIS. SEPARATE

PROVIDE APPROPRIATELY MARKED CONTAINERS OR BINS FOR CONTROLLING RECYCLABLE WASTE UNTIL

THEY ARE REMOVED FROM THE PROJECT SITE. INCLUDE A LIST OF ACCEPTABLE AND UNACCEPTABLE

INSPECT CONTAINERS AND BINS FOR CONTAMINATION AND REMOVE CONTAMINATED MATERIALS IF

STOCKPILE PROCESSED MATERIALS ON-SITE WITHOUT INTERMIXING WITH OTHER MATERIALS. PLACE,

GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

STOCKPILE MATERIALS AWAY FROM DEMOLITION AREA. DO NOT STORE WITHIN DRIP LINE OF REMAINING

REMOVE RECYCLABLE WASTE OFF THE OWNER'S PROPERTY AND TRANSPORT TO RECYCLING RECEIVER

ASPHALTIC CONCRETE PAVING: BREAK UP AND TRANSPORT PAVING TO ASPHALT RECYCLING FACILITY.

CONCRETE REMOVE REINFORCEMENT AND OTHER METALS FROM CONCRETE AND SORT WITH OTHER

D. MASONRY: MASONRY WASTE SHALL INCLUDE WHOLE OR BROKEN BRICK AND CONCRETE MASONRY

SHALL BE CRUSHED AND USED AS FILL FOR OFFSITE AREAS. REMOVE METAL REINFORCEMENT,

UNITS, WHOLE MASONRY UNITS SHALL BE CLEANED AND REUSED OR DONATED. BROKEN MASONRY

DEMOLITION NOTES

STORE COMPONENTS OFF THE GROUND AND PROTECT FROM THE WEATHER.

ANCHORS AND TIES FROM MASONRY AND SORT WITH OTHER METALS.

RECYCLABLE WASTE BY TYPE AT THE PROJECT SITE TO THE MAXIMUM EXTENT PRACTICAL.

STABILIZATION OCCURS (AS APPLICABLE TO THE PROJECT).

PUBLIC WORLS DEPARTMENT

ENGINEERING BETAILS

WASTE MANAGEMENT PLAN

RECYCLING DEMOLITION WASTE

OR PROCESSOR.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT

ENGINEERING DETAILS

DEMOLITION NOTES

SHEET 5

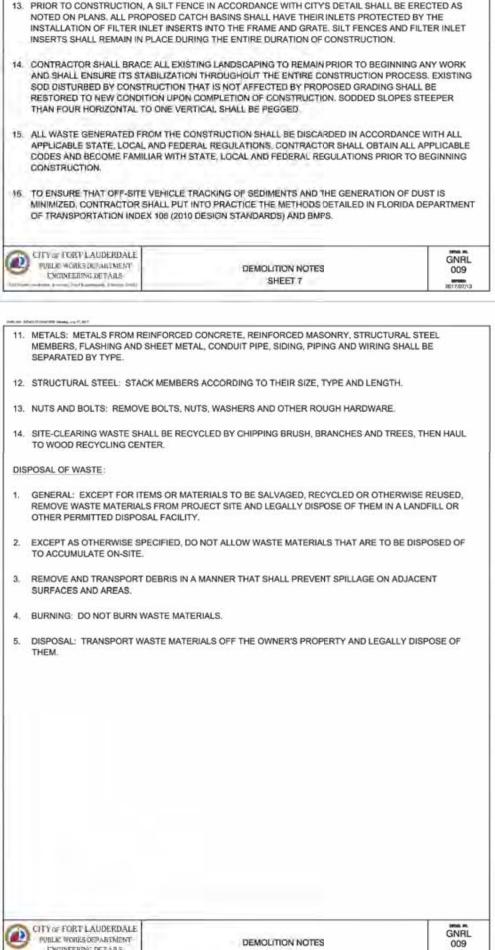
DEMOLITION NOTES

AREAS TO BE DISTURBED BY DEMOLITION. BERMS, SWALES AND OTHER MEANS USED FOR SUCH

DEMOLITION NOTES

SHEET 6

CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL



DEMOLITION NOTES

ENGINEERING DETAILS

PRE-DEMOLITION RESPONSIBILITIES:

THE OWNER, THE ENGINEER AND THE CONTRACTOR.

DEPICTING EACH PHASE OF THE WORK.

ANY EXISTING UTILITIES NOT SHOWN.

CITY OF FORT LAUDERDALE
PUBLIC WORKSDEPARTMENT

ENGINEERING DETAILS

UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-DEMOLITION

CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS,

PRIOR TO DEMOLITION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DEMOLITION SCHEDULE

PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE FOR THE OWNER A LISTING OF THE FACILITIES THE

CONTRACTOR SHALL UTILIZE FOR RECYCLING AND DISPOSAL OF SPECIFIC MATERIALS. CONTRACTOR

TO INDICATE THE MATERIALS INTENDED FOR RECYCLING AND THE MATERIALS INTENDED FOR DISPOSAL

PRIOR TO DEMOLITION, CONTRACTOR TO PROVIDE THE OWNER SKETCHES SHOWING PROPOSED

HAULING ROUTES TO RECYCLING AND DISPOSAL FACILITIES FOR APPROVAL

MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF DEMOLITION.

FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

CONTRACTOR, ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY.

FACILITIES (ELECTRICAL, GAS, TELEPHONE, CABLE, WATER) ARE LOCATED.

DEMOLITION NOTES

10.5. CONSTRUCT ABOVE GROUND OR OTHER CONTAINMENT AREAS FOR DEMOLITION AREA RUNOFF.

10.6. SPOIL MOUNDS SHALL NOT BE LEFT FOR MORE THAN ONE WEEK PRIOR TO REPLACEMENT UNLESS

10.7. GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF REGRADING,

PRACTICES (BMPS) TO ENSURE COMPLIANCE WITH THE NPDES PROGRAM AND TO MINIMIZE THE IMPACT

TO PUBLIC STORMWATER FACILITIES. A NOTICE OF INTENT (NOI) SHALL BE FILED BY THE CONTRACTOR

THE CONTRACTOR IS REQUIRED TO ADHERE TO THE REQUIREMENT OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), THE CONTRACTOR SHALL INSTITUTE BEST MANAGEMENT

THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND

MAINTAIN ALL RECORDS REQUIRED BY ITS NPDES STORMWATER PERMIT FOR ITS CONSTRUCTION

PROVIDE SCREENS, HAY BALES, ETC. TO FILTER DISCHARGE FROM THOSE AREAS.

PROTECTIVE CONTAINMENT MEASURES IN THE WORK AREA ARE APPLIED.

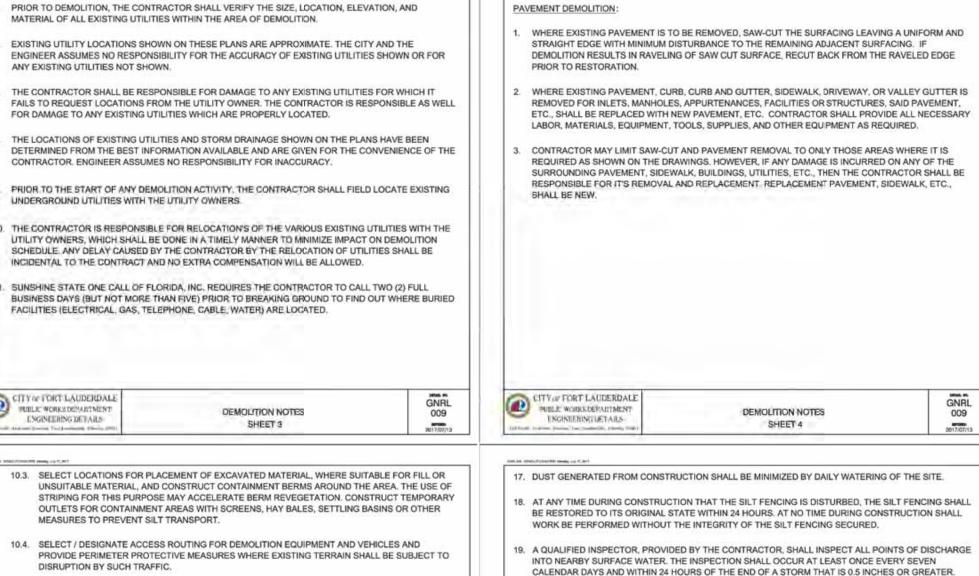
SWALE SLOPES AND THE CONSTRUCTED OR DISTURBED AREAS.

UNDERGROUND UTILITIES WITH THE UTILITY OWNERS.

EASURES TO PREVENT SILT TRANSPORT.

DISRUPTION BY SUCH TRAFFIC.

PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.



ALL DEMOLITION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF

TRANSPORTATION (FDOT) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE

PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN

A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE

USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE

BUILDING MATERIALS TO BE REMOVED SHALL BE TESTED FOR ASBESTOS AND LEAD PAINT.

IF PETROLEUM PRODUCTS ARE FOUND WHILE DEMOLISHING, DISPOSE OF PETROLEUM WASTE IN

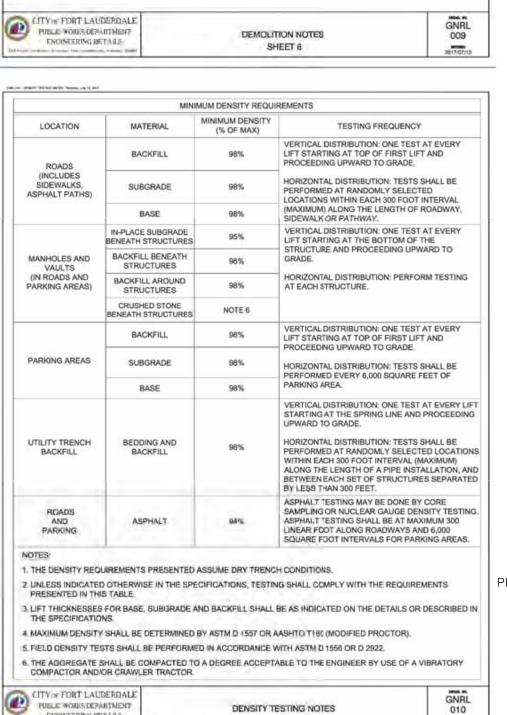
UNNECESSARILY BLOCKED BY DEBRIS AND EQUIPMENT.

ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE FLORIDA DEPARTMENT OF

STRICTLY OBSERVED.

CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. INSPECTION INCLUDES THE WRITTEN RECORDING OF THE CONDITION OF ALL DISCHARGE POINTS, INTEGRITY OF SILT FENCING, DAILY DUST CONTROL MEASURES, VEHICULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE THE INSPECTION REPORT SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING INFORMATION: NAME AND QUALIFICATION OF PERSONNEL MAKING THE INSPECTION, DATE OF INSPECTION, RAINFALL DATE, MAJOR OBSERVATIONS RELATING TO THE SWPPP, ACTIONS TAKEN BY CONTRACTOR AND ANY INCIDENT OF NONCOMPLIANCE WITH PERMIT, WHERE AN INSPECTION DOES NOT IDENTIFY ANY INCIDENT OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT THE CONTRACTOR SHALL RETAIN A COPY OF THE SWPPP AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THE PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION. 2. THE CONTRACTOR SHALL RETAIN THE SWPPP, NOI AND ALL RECORDS ASSOCIATED THEREWITH FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED. SEE LANDSCAPE PLANS FOR TREE REMOVAL AND LANDSCAPE DEMOLITION. 4. CONTRACTOR SHALL COORDINATE THROUGH CITY'S CONSTRUCTION DIVISION AND CITY'S PARKS DEPARTMENT ON HOW TO STOCK AND RE-USE EXCAVATED SOIL FROM SITE (AS APPLICABLE TO THE



DENSITY TESTING NOTES

ENGINEERING BETAILS

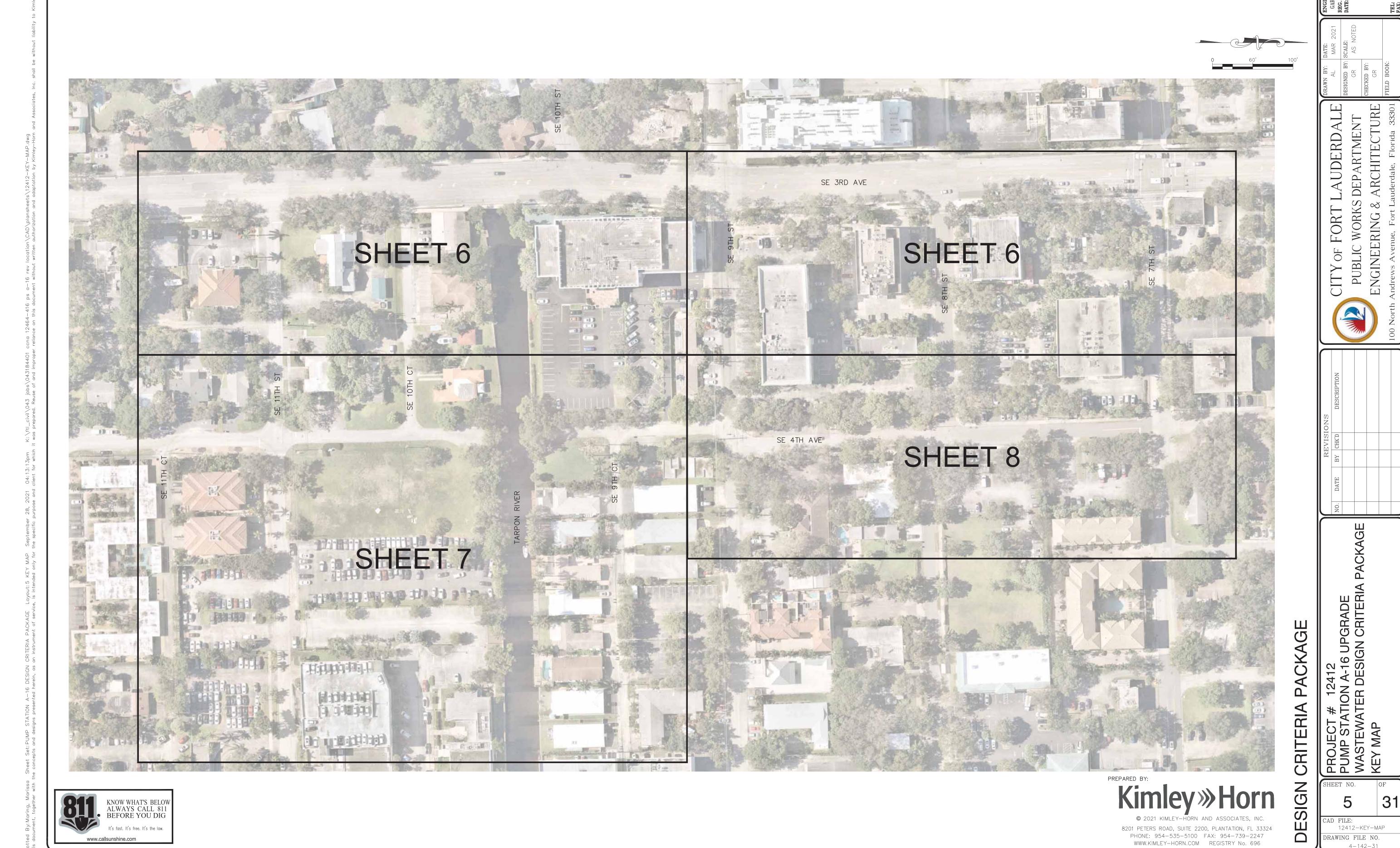
RAI <u>Ω</u> <u>Ω</u> 6 UP 2十の三 A-DE AD FILE 8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

PHONE: 954-535-5100 FAX: 954-739-2247

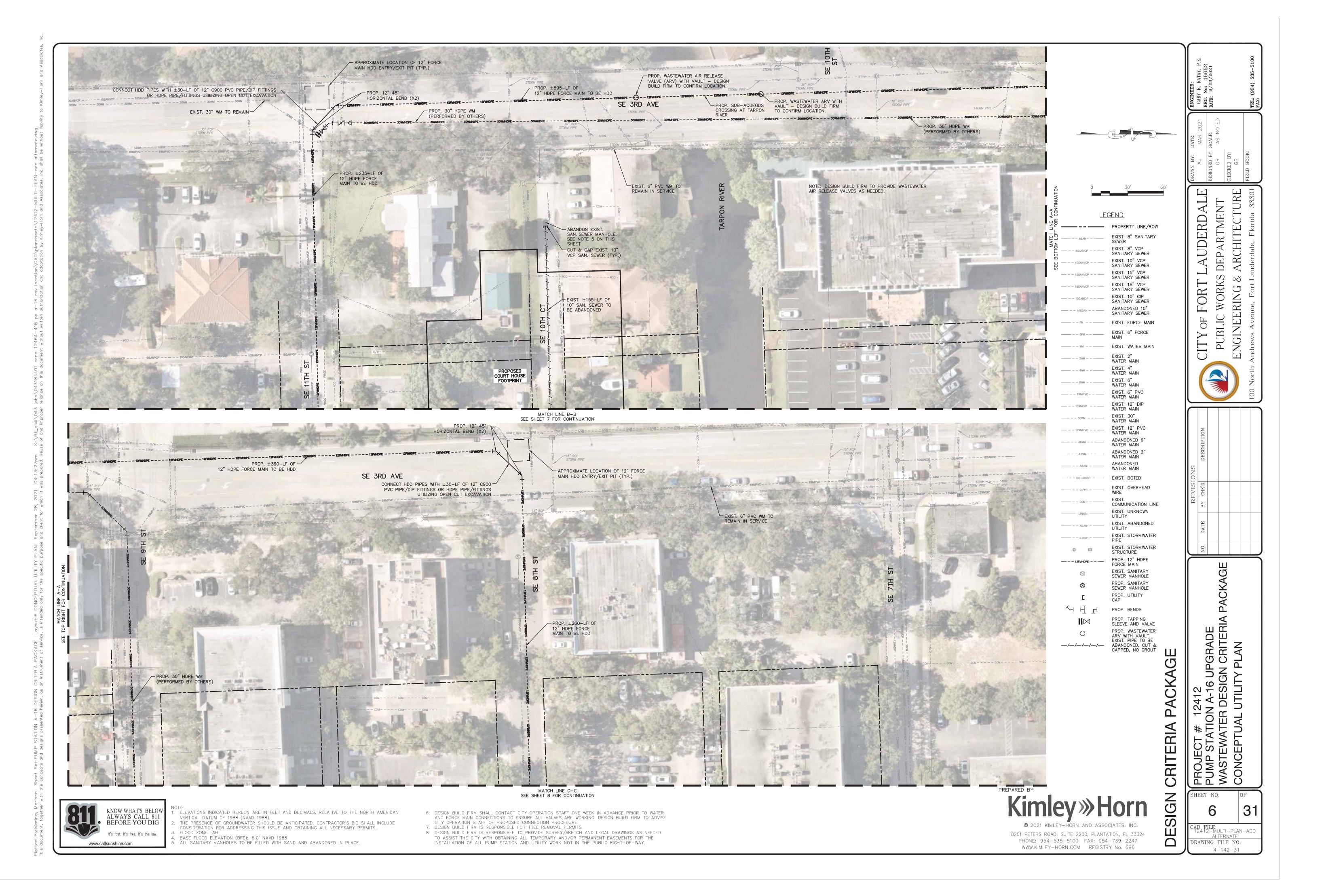
WWW.KIMLEY-HORN.COM REGISTRY No. 696

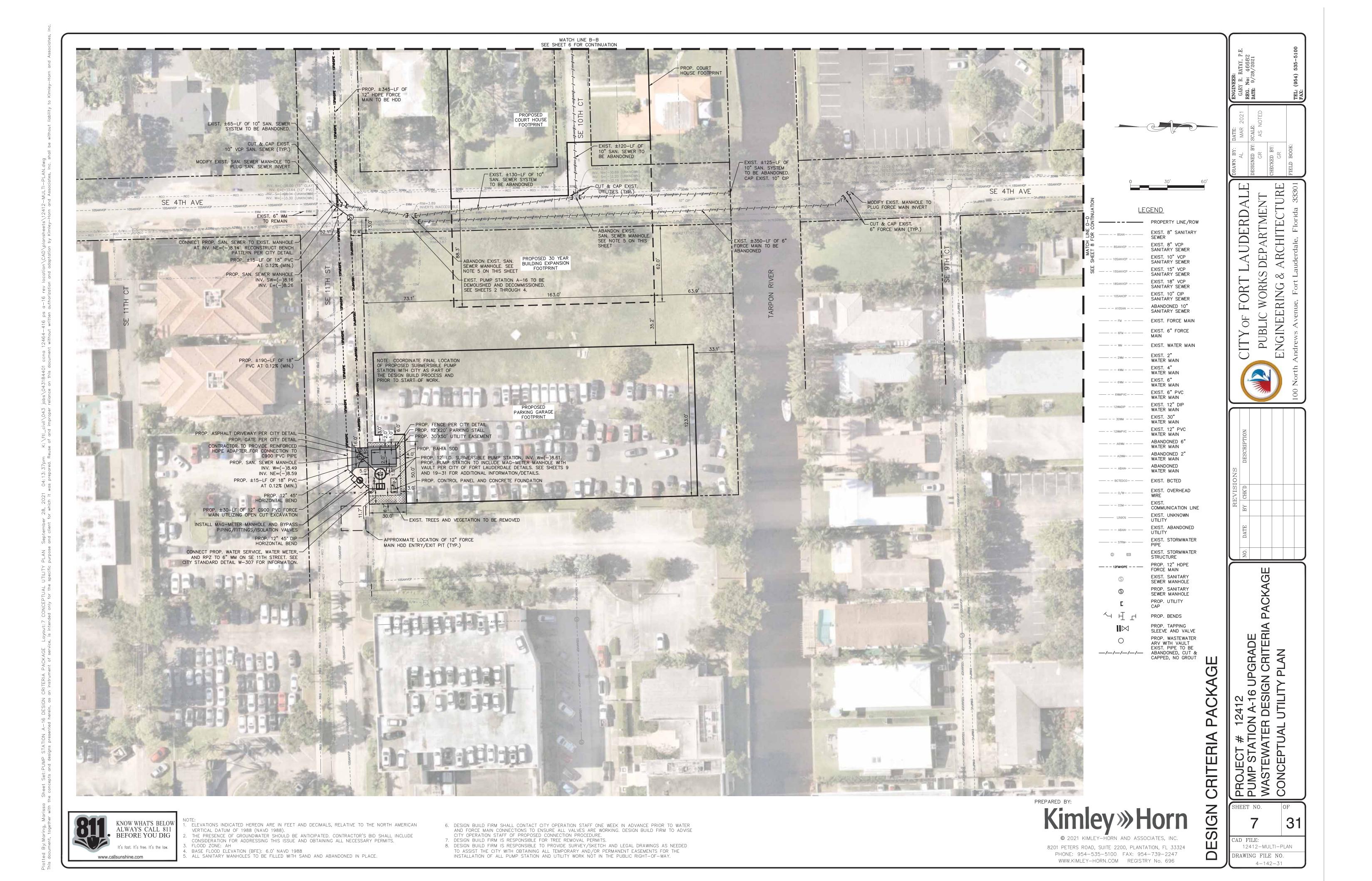
12412-MULTI-DEMO RAWING FILE NO. 4-142-31

CASE: UDP-V21004 Exhibit 4 Page 5 of 32

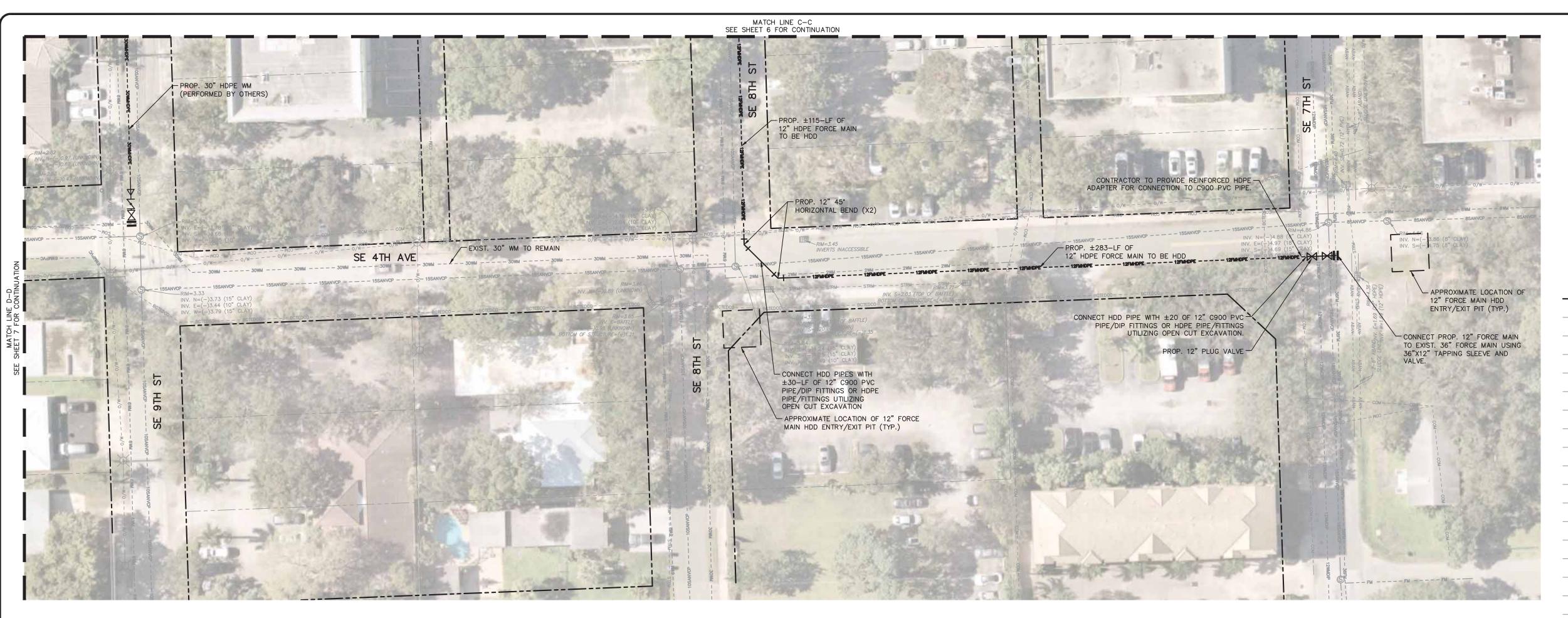


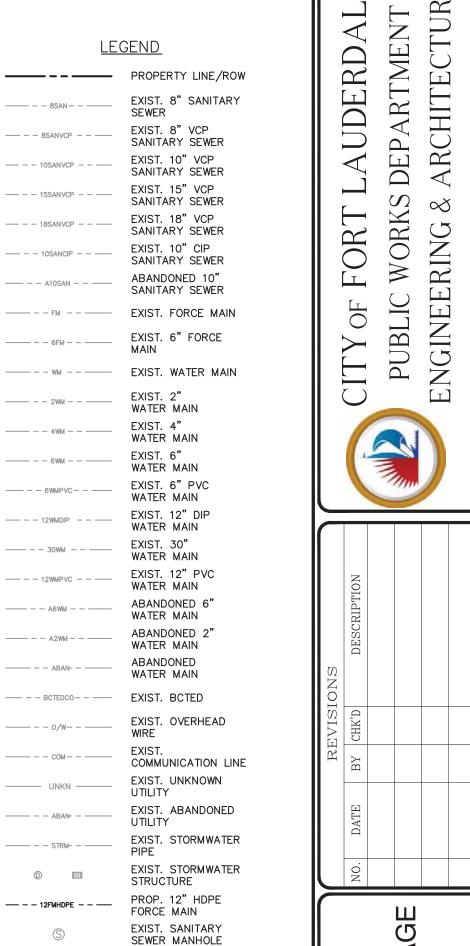
RAWING FILE NO. 4-142-31





CASE: UDP-V21004 Exhibit 4 Page 8 of 32





PROP. SANITARY SEWER MANHOLE PROP. UTILITY

PROP. BENDS

—/—/—/—/— ABANDONED, CUT & CAPPED, NO GROUT

PROP. TAPPING SLEEVE AND VALVE PROP. WASTEWATER ARV WITH VAULT EXIST. PIPE TO BE



- ELEVATIONS INDICATED HEREON ARE IN FEET AND DECIMALS, RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS. FLOOD ZONE: AH
- 1. BASE FLOOD ELEVATION (BFE): 6.0' NAVD 1988 5. ALL SANITARY MANHOLES TO BE FILLED WITH SAND AND ABANDONED IN PLACE.
- 6. DESIGN BUILD FIRM SHALL CONTACT CITY OPERATION STAFF ONE WEEK IN ADVANCE PRIOR TO WATER AND FORCE MAIN CONNECTIONS TO ENSURE ALL VALVES ARE WORKING. DESIGN BUILD FIRM TO ADVISE CITY OPERATION STAFF OF PROPOSED CONNECTION PROCEDURE.
- . DESIGN BUILD FIRM IS RESPONSIBLE FOR TREE REMOVAL PERMITS. 8. DESIGN BUILD FIRM IS RESPONSIBLE TO PROVIDE SURVEY/SKETCH AND LEGAL DRAWINGS AS NEEDED TO ASSIST THE CITY WITH OBTAINING ALL TEMPORARY AND/OR PERMANENT EASEMENTS FOR THE INSTALLATION OF ALL PUMP STATION AND UTILITY WORK NOT IN THE PUBLIC RIGHT-OF-WAY.

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

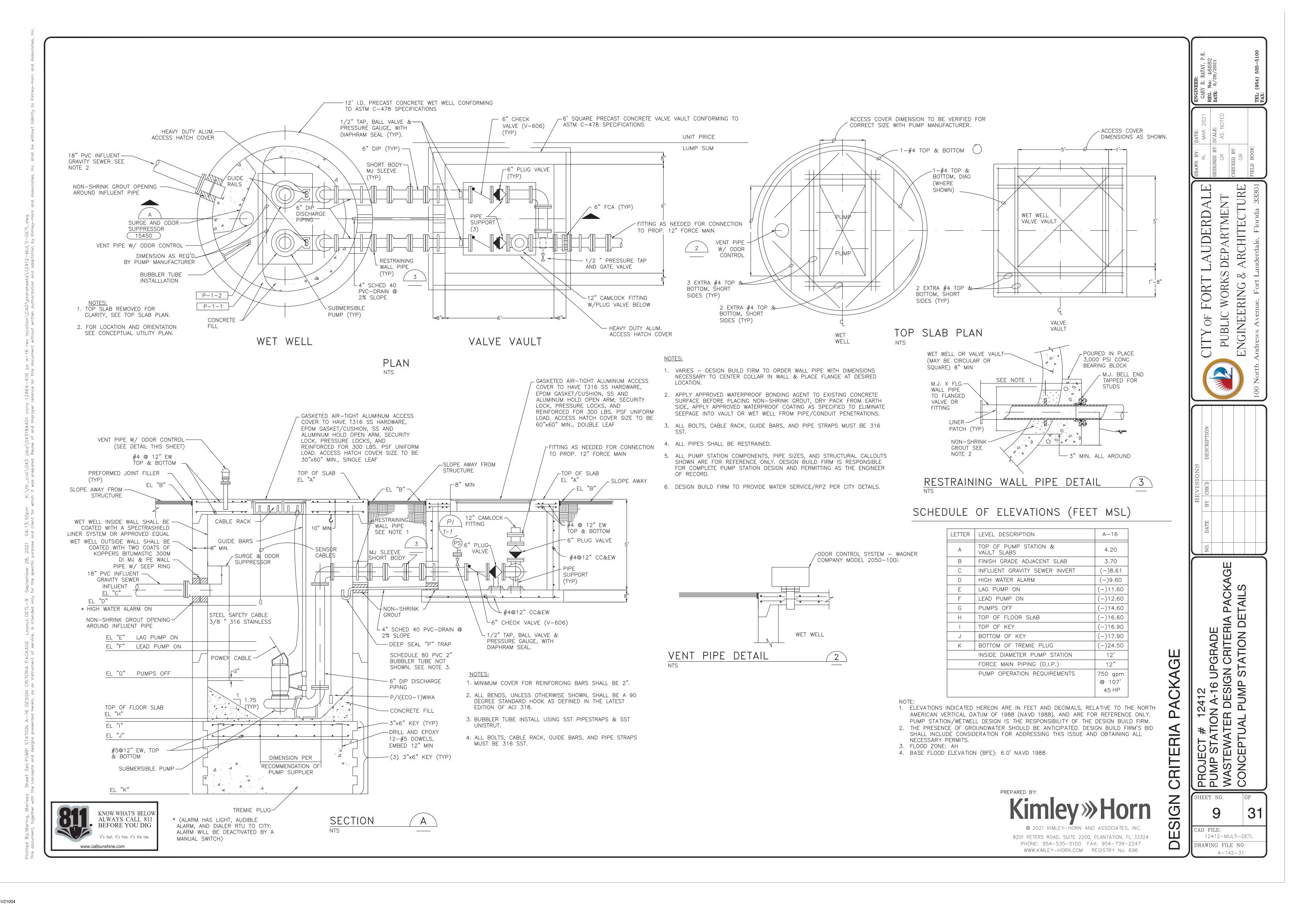
SIGN

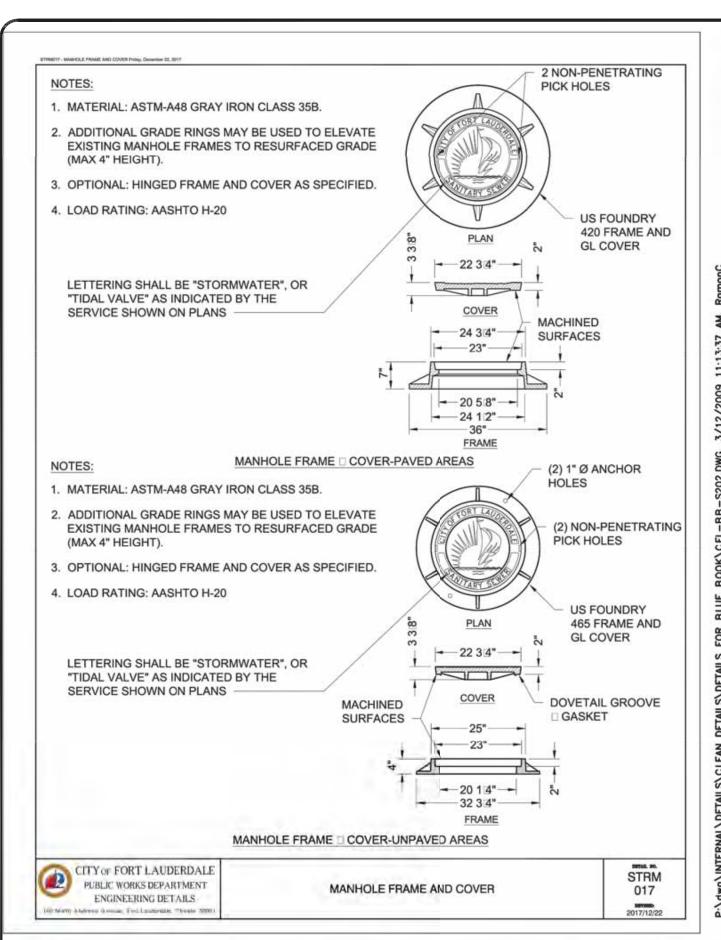
31 CAD FILE: 12412-Multi-plan-add ALTERNATE RAWING FILE NO. 4-142-31

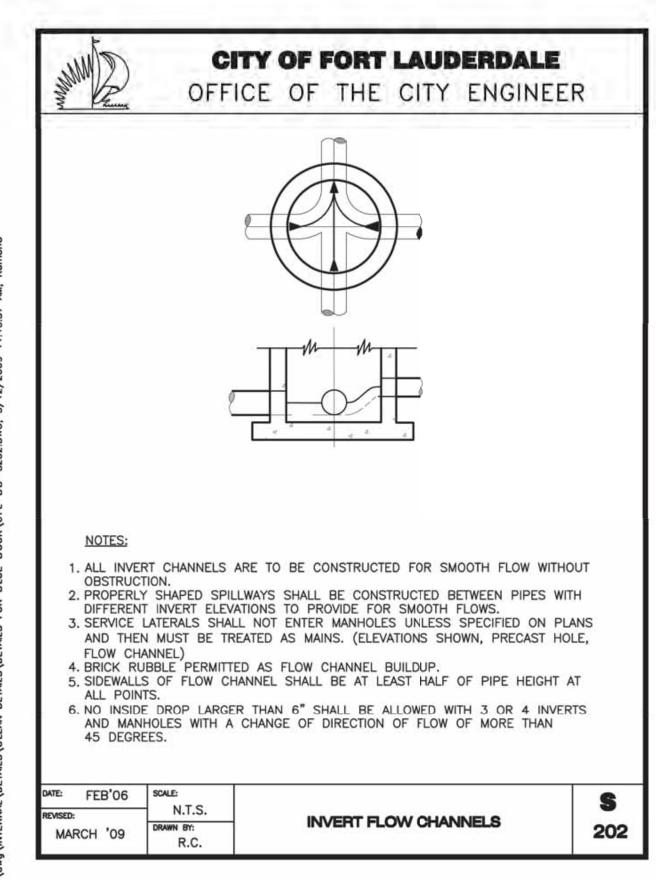
CONCEPTUAL

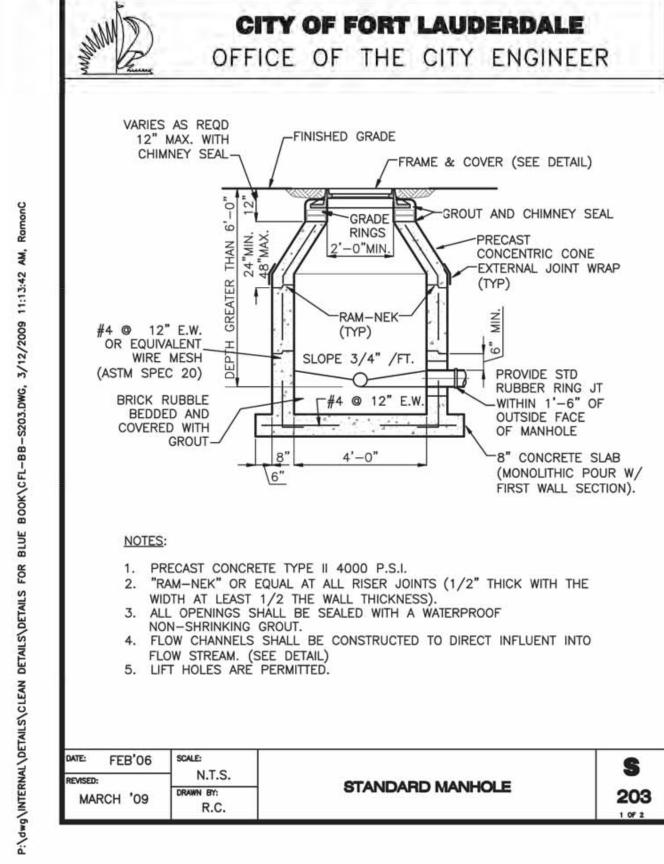
412 A-16 UPGRADE DESIGN CRITERIA F

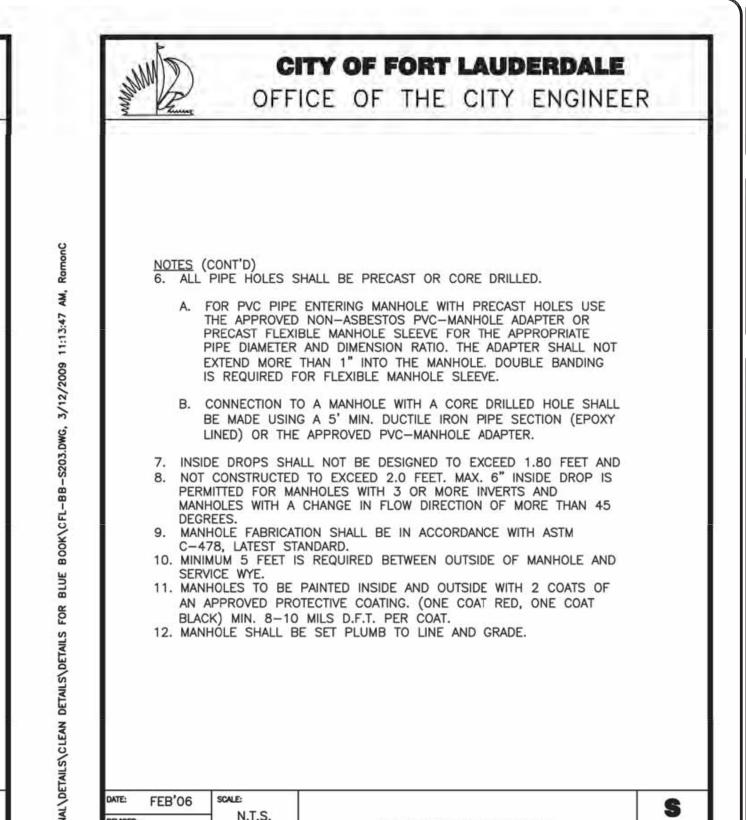
A DF

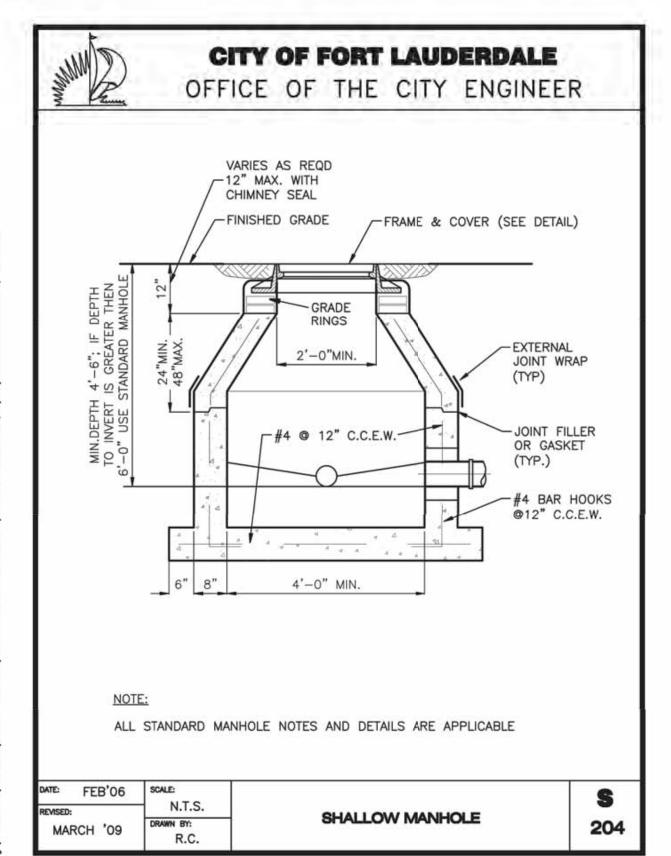


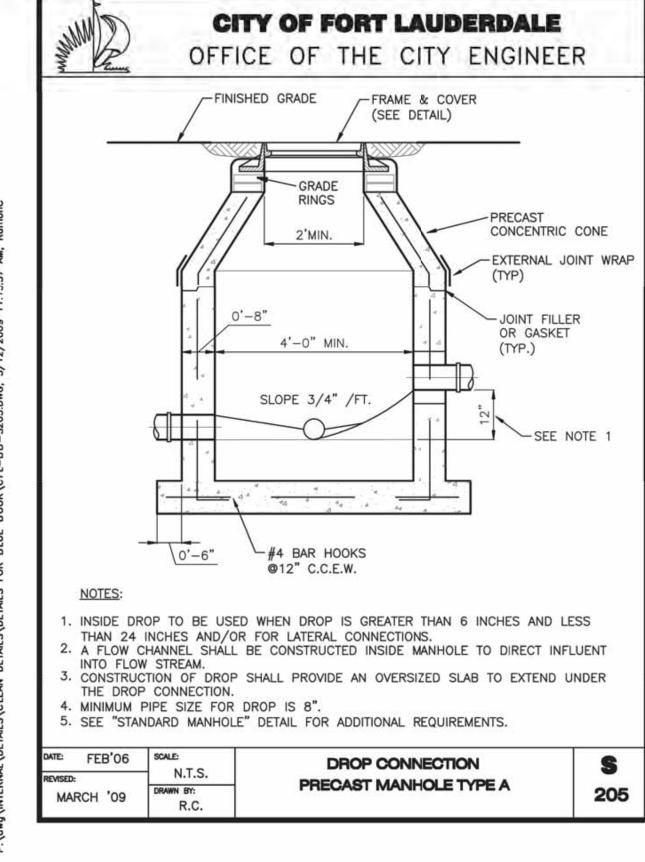


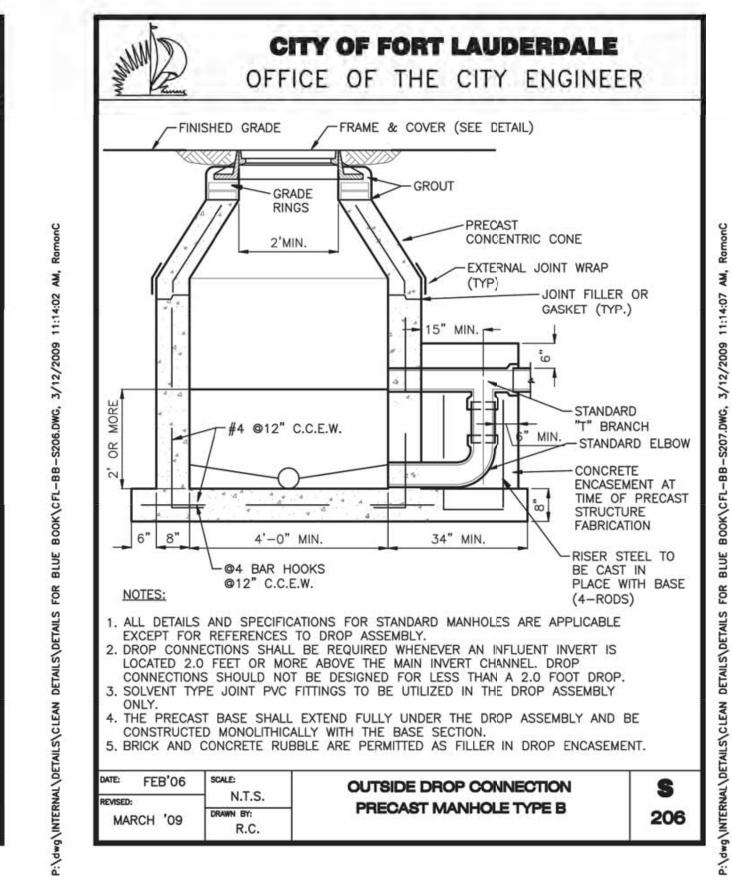


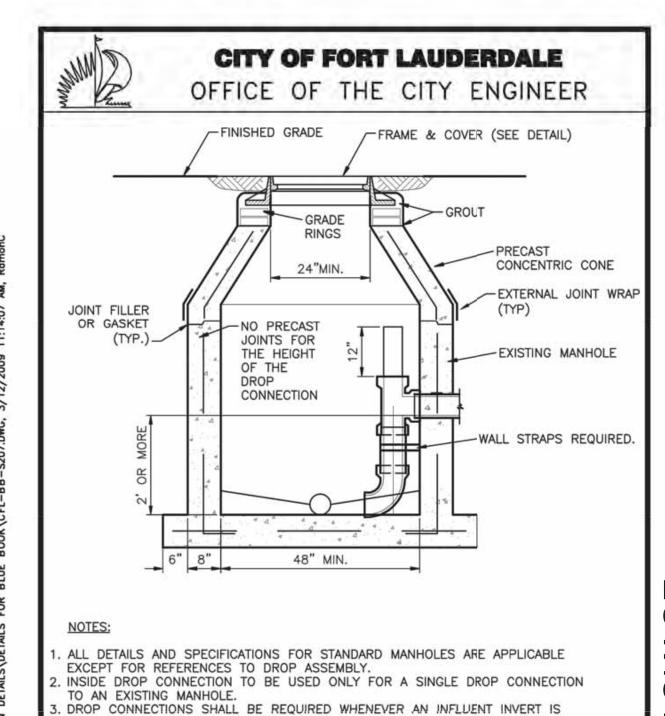






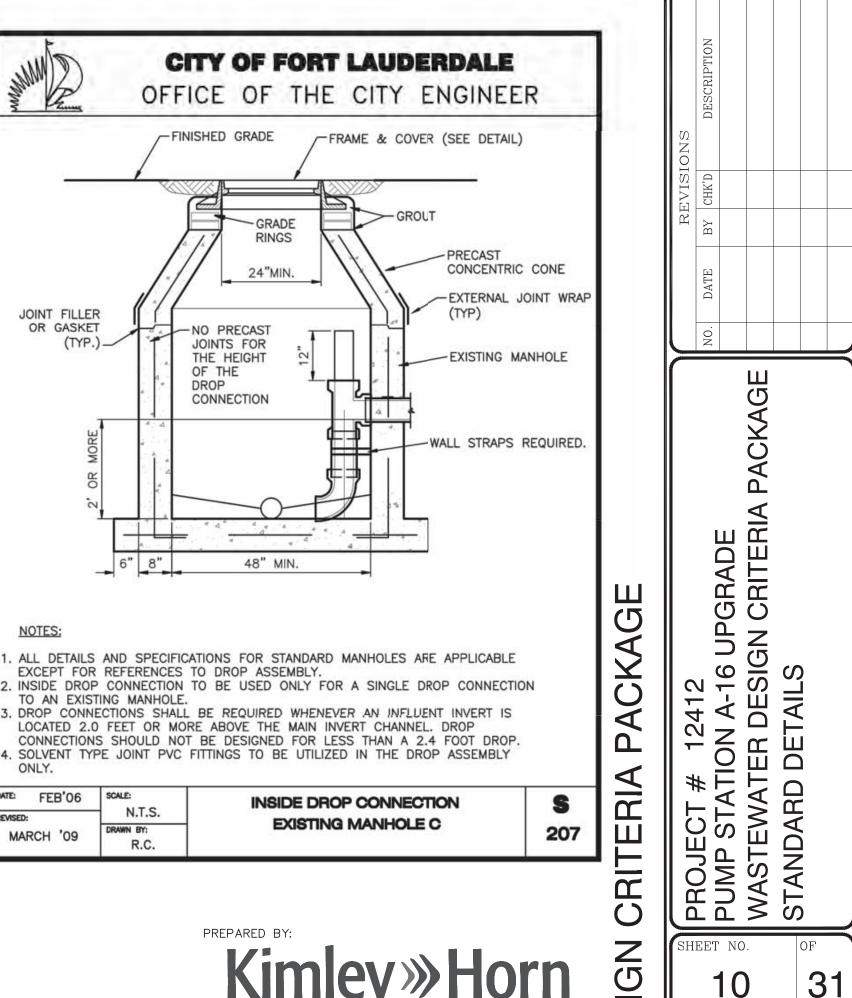






MARCH '09

R.C.



STANDARD MANHOLE

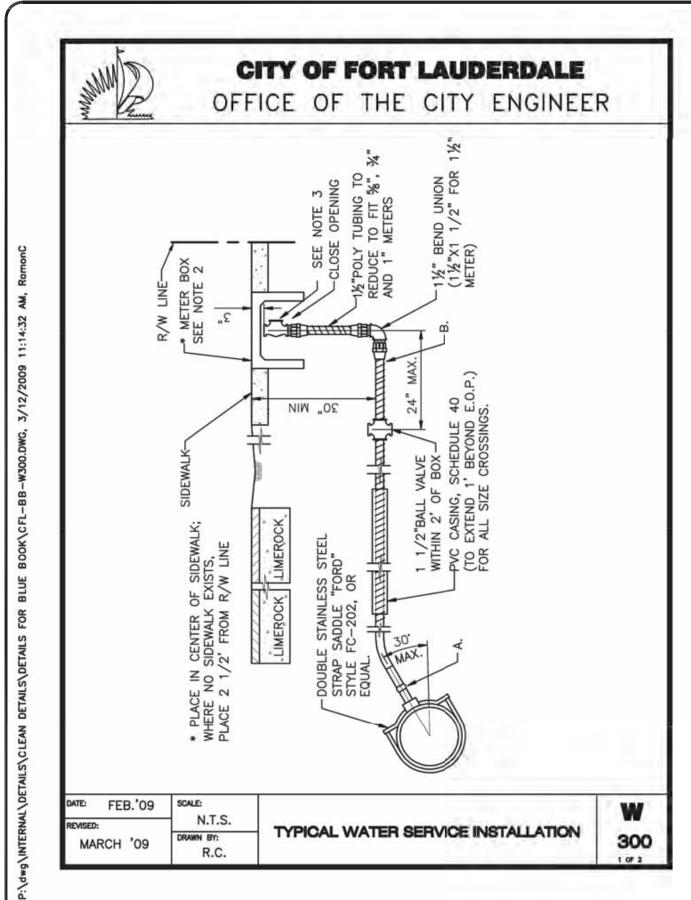


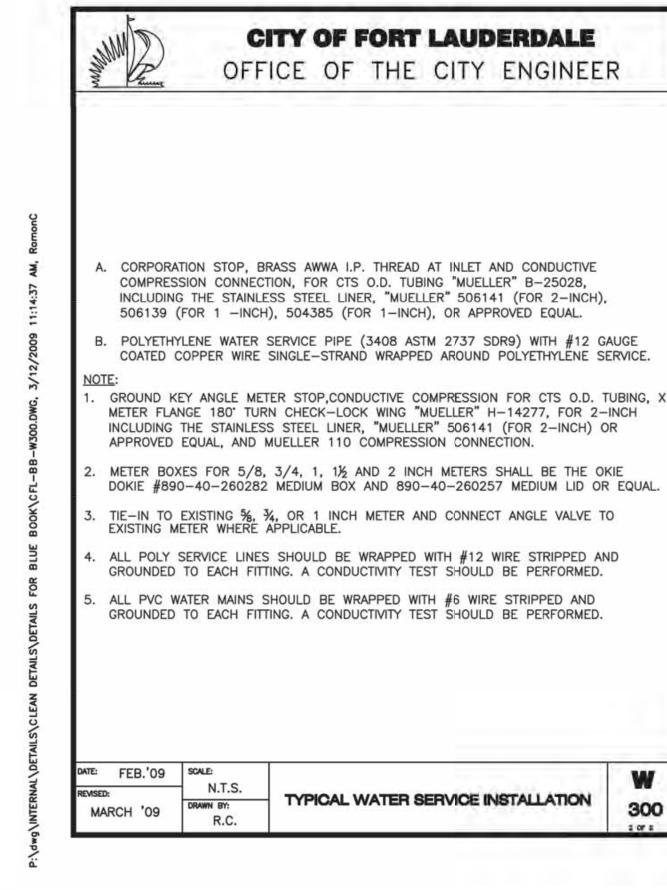
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

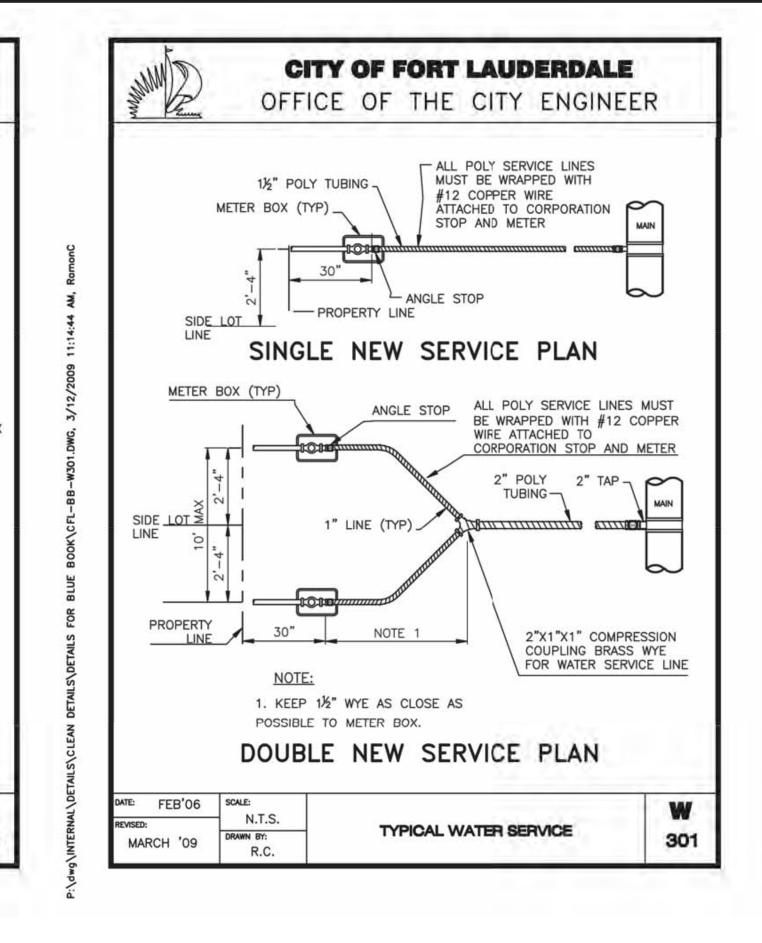
AD FILE: 12412-MULTI-DETL RAWING FILE NO. 4-142-31

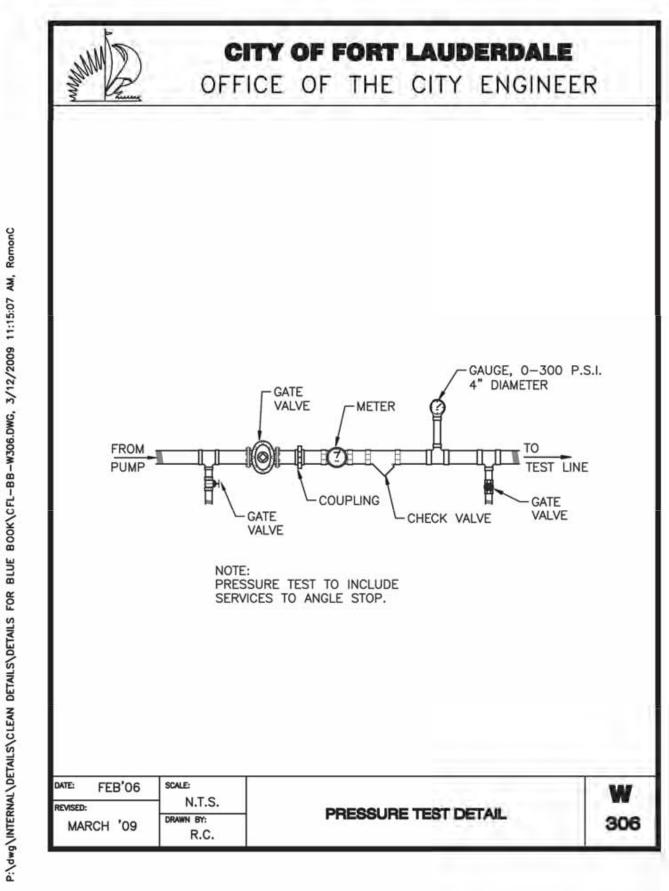
UBL

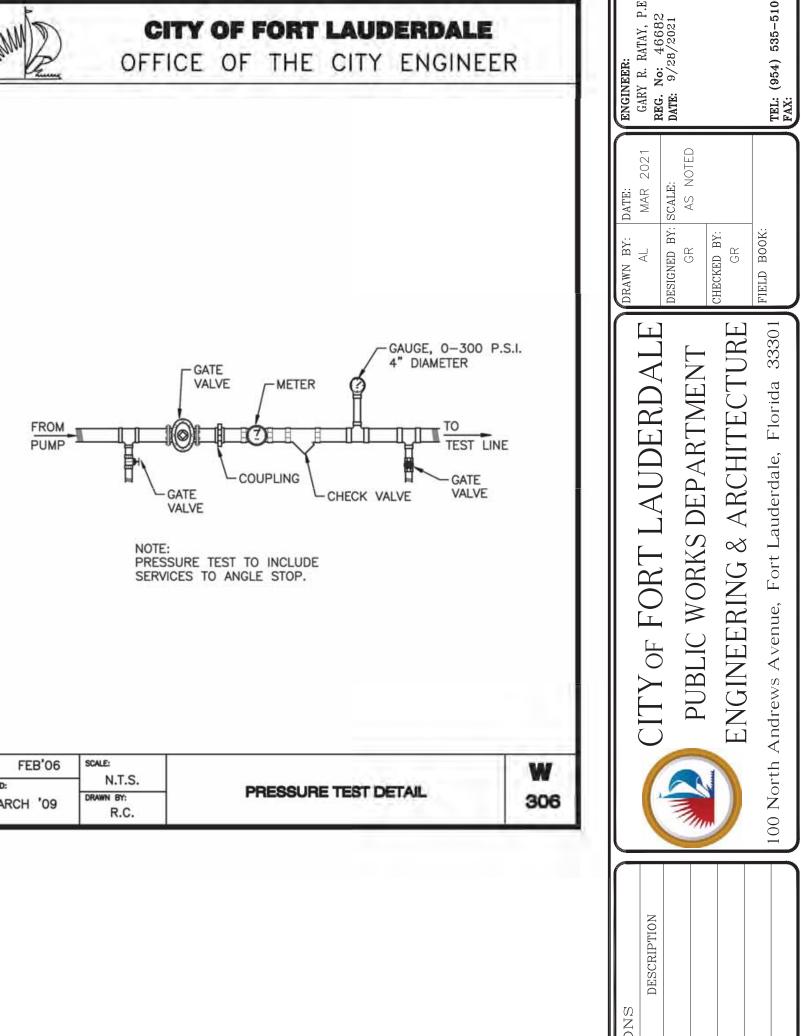
203

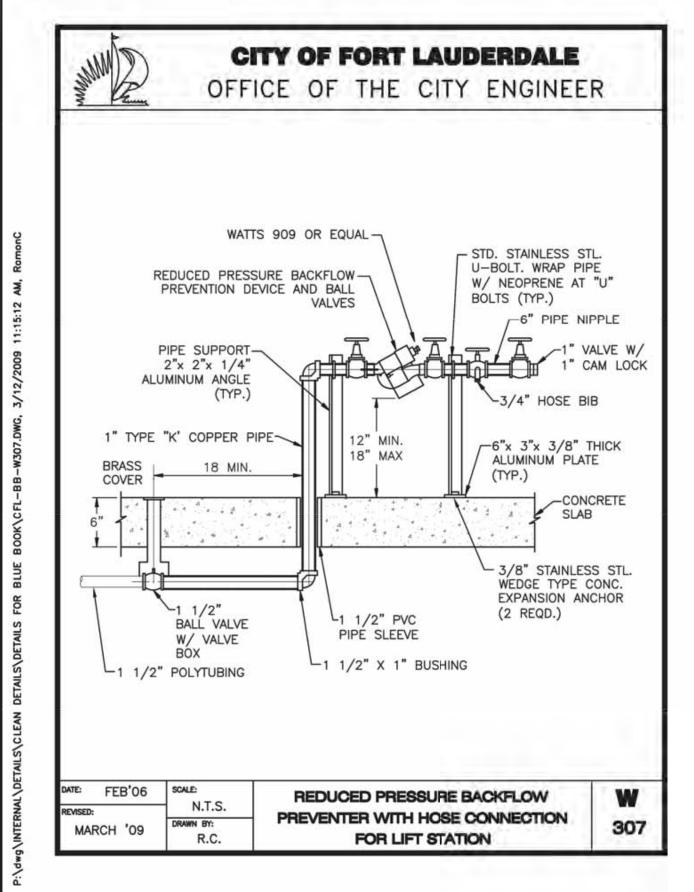
















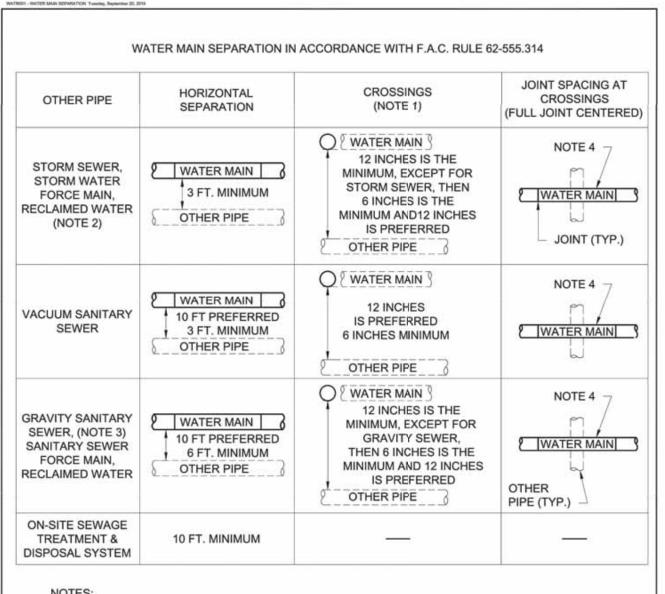
WWW.KIMLEY-HORN.COM REGISTRY No. 696

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247

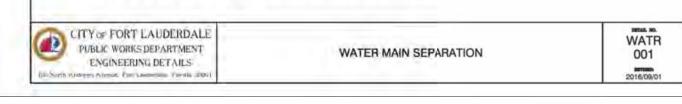
PROJECT # 12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA P. **PACKAGE** CRITERIA SIGN

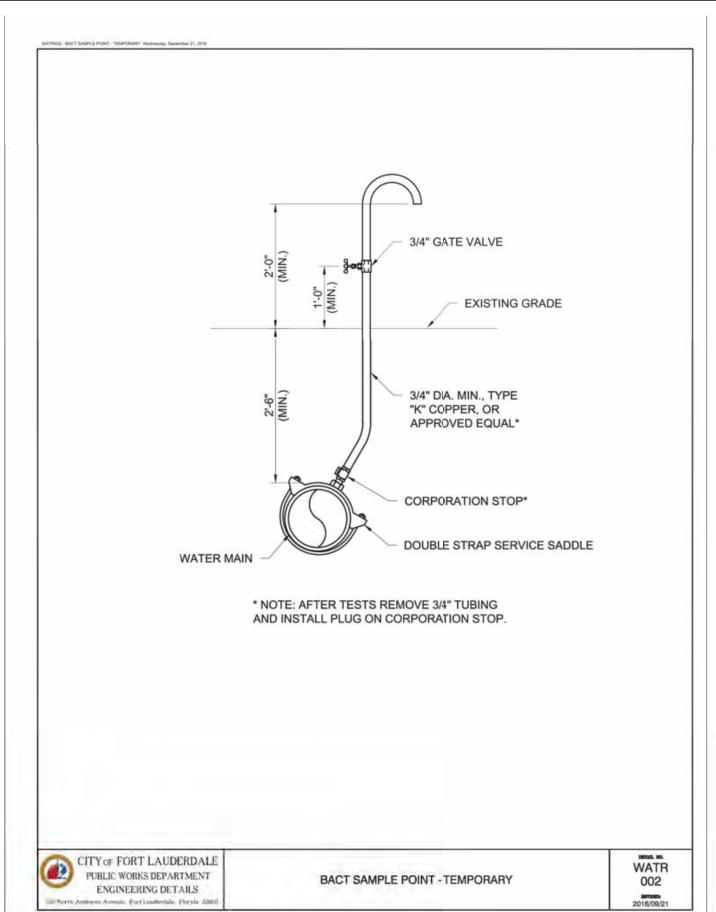
ACKAGE

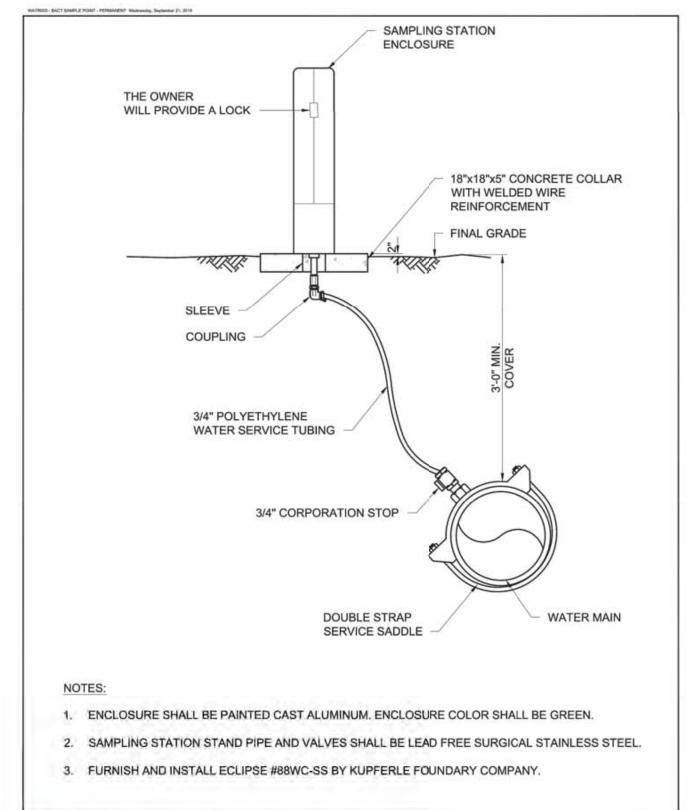
31 AD FILE: 12412-MULTI-DETL RAWING FILE NO. 4-142-31



- 1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
- RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- 3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
- 4. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATE JOINT LOCATIONS ALLOWED UNDER FAC 62-555.314 WILL ONLY BE ALLOWED BY THE ENGINEER ON A CASE-BY-CASE BASIS.







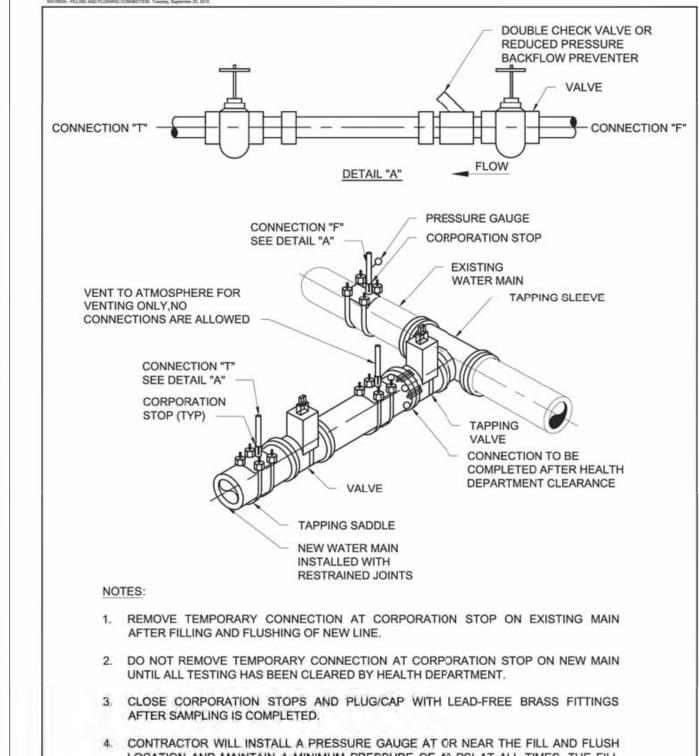
BACT SAMPLE POINT - PERMANENT

WATR

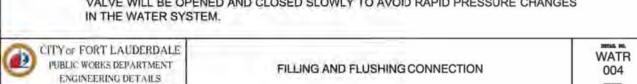
003

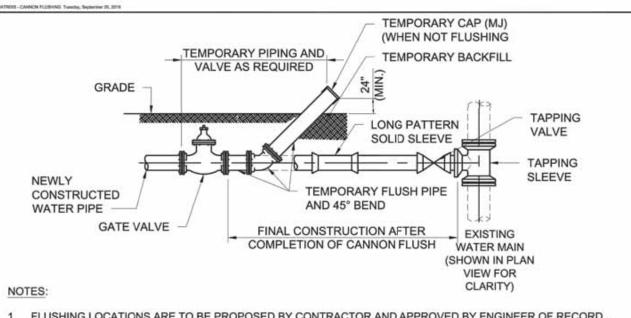
WATR

007



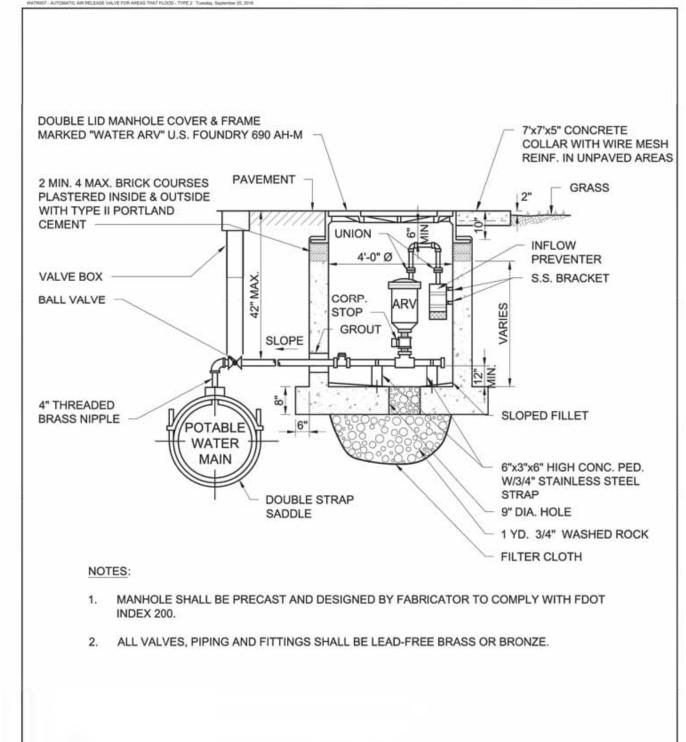
LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES





- 1. FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ENGINEER OF RECORD.
- . UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
- INSTALL A TEMPORARY 45° BEND, VALVE AND ASSOCIATED TEMPORARY PIPING AS SHOWN TO DIRECT THE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.

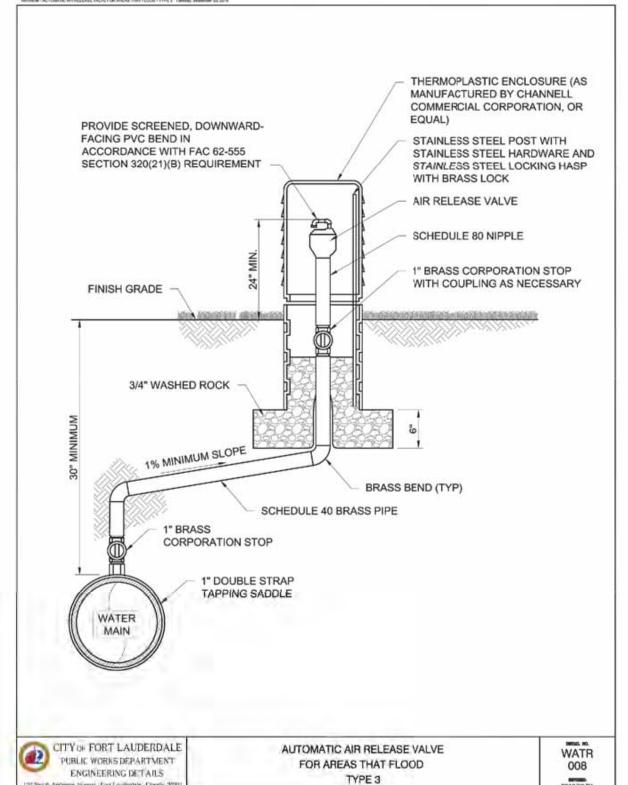
WATR 005



CITY OF FORT LAUDERDALE AUTOMATIC AIR RELEASE VALVE PUBLIC WORKS DEPARTMENT FOR AREAS THAT FLOOD ENGINEERING DETAILS TYPE 2

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT

ENGINEERING DETAILS



8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

PHONE: 954-535-5100 FAX: 954-739-2247

WWW.KIMLEY-HORN.COM REGISTRY No. 696

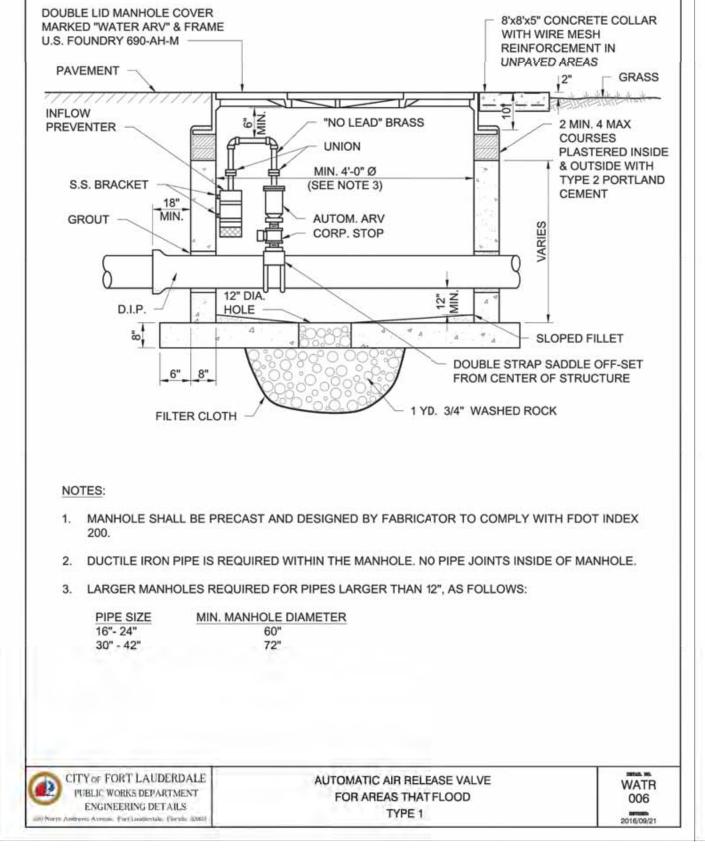
R

GRADE 6 UP ST # 12412 STATION A-1 WATER DES

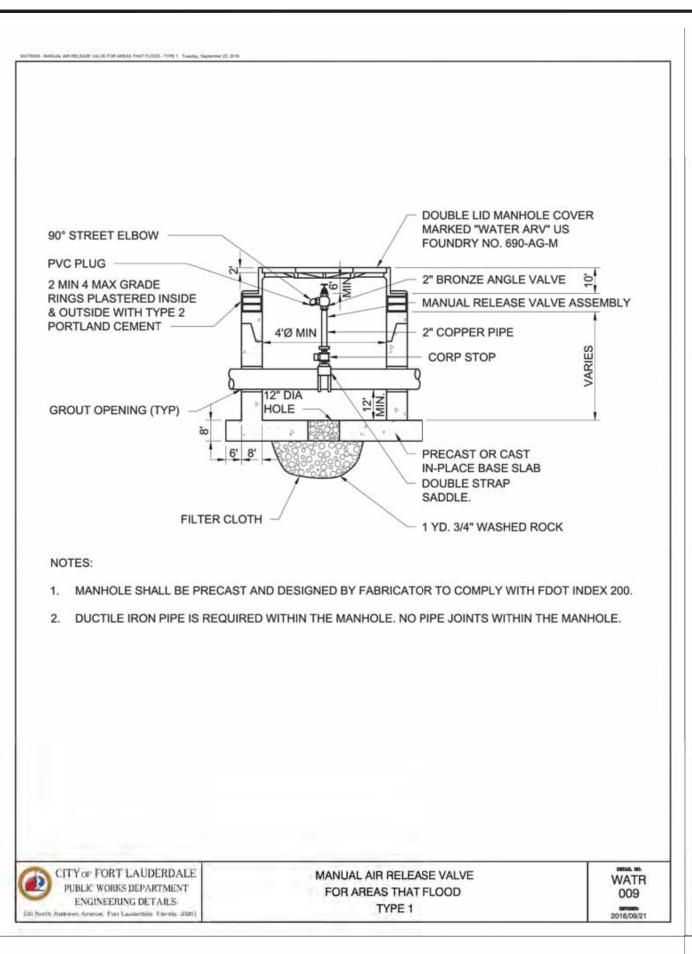
UBL

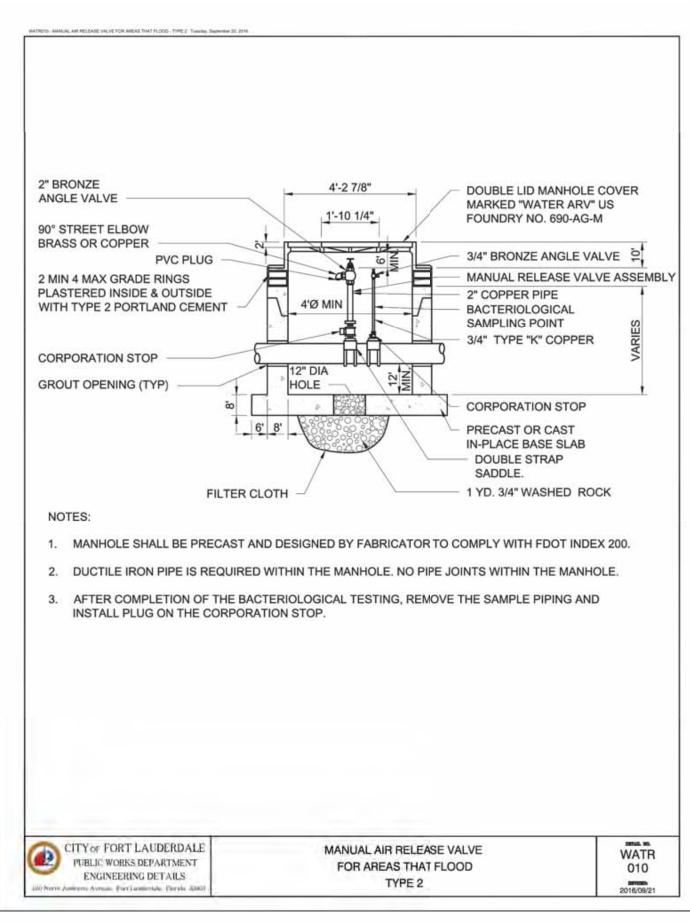
AD FILE: 12412-MULTI-DETL RAWING FILE NO. 4-142-31

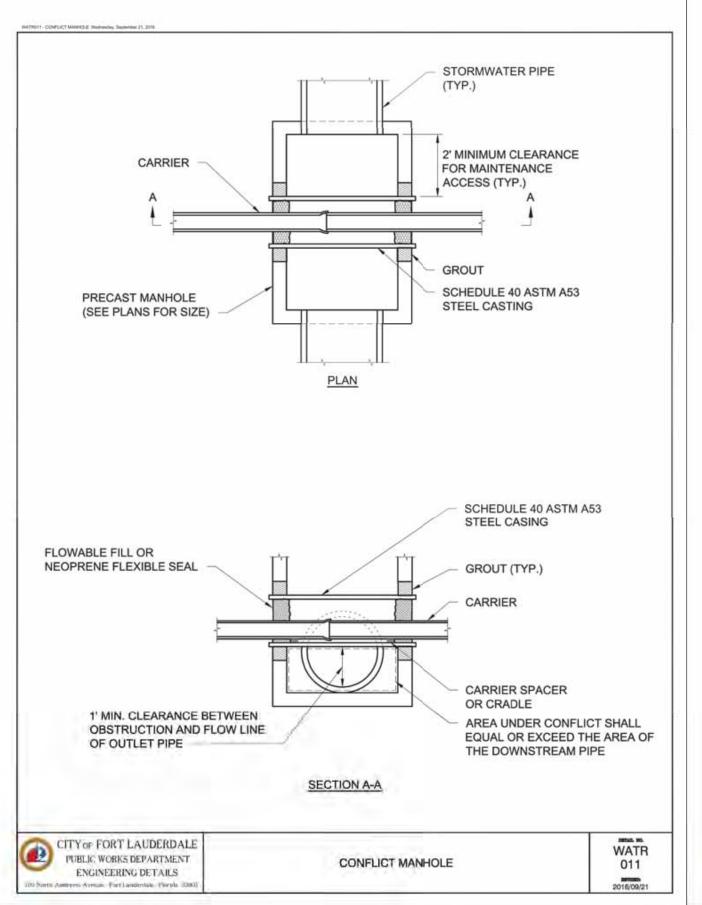


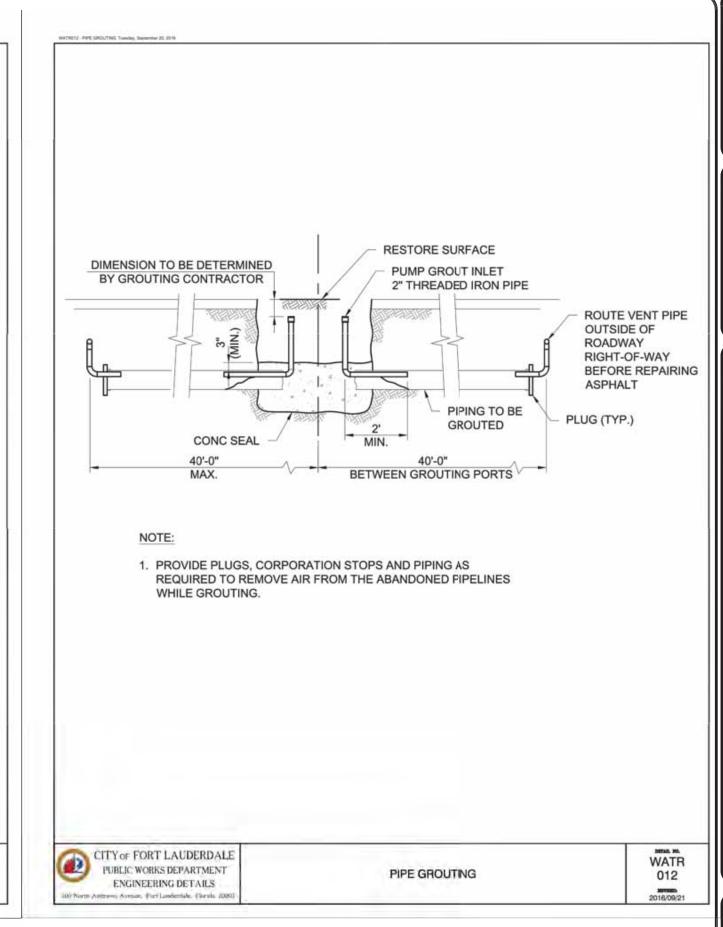


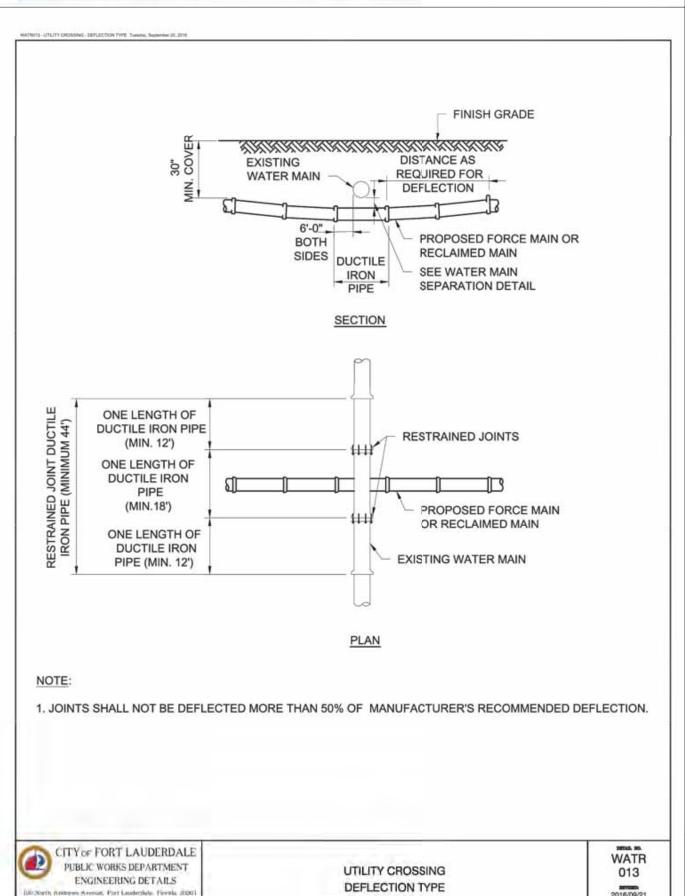


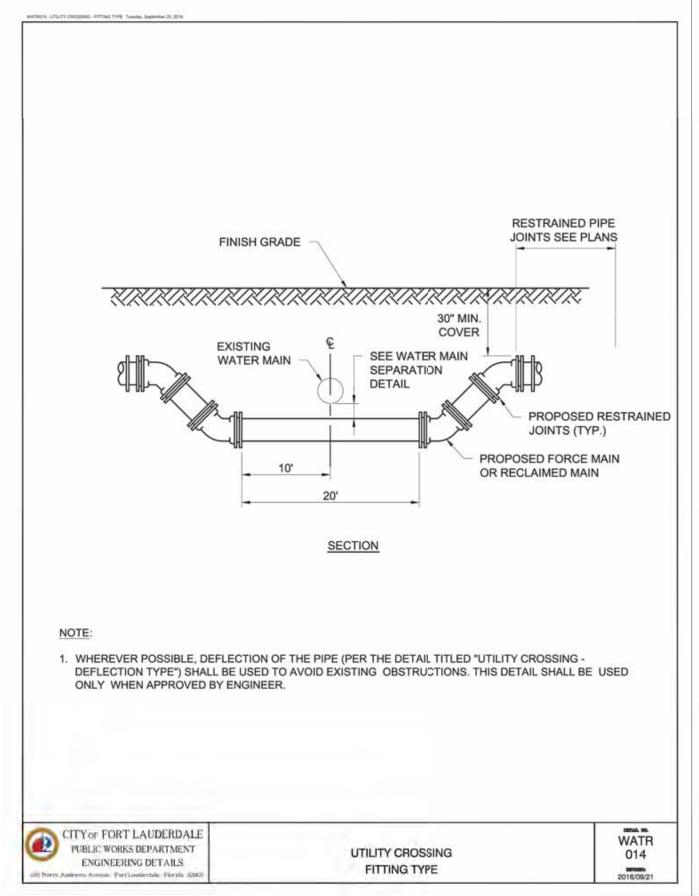


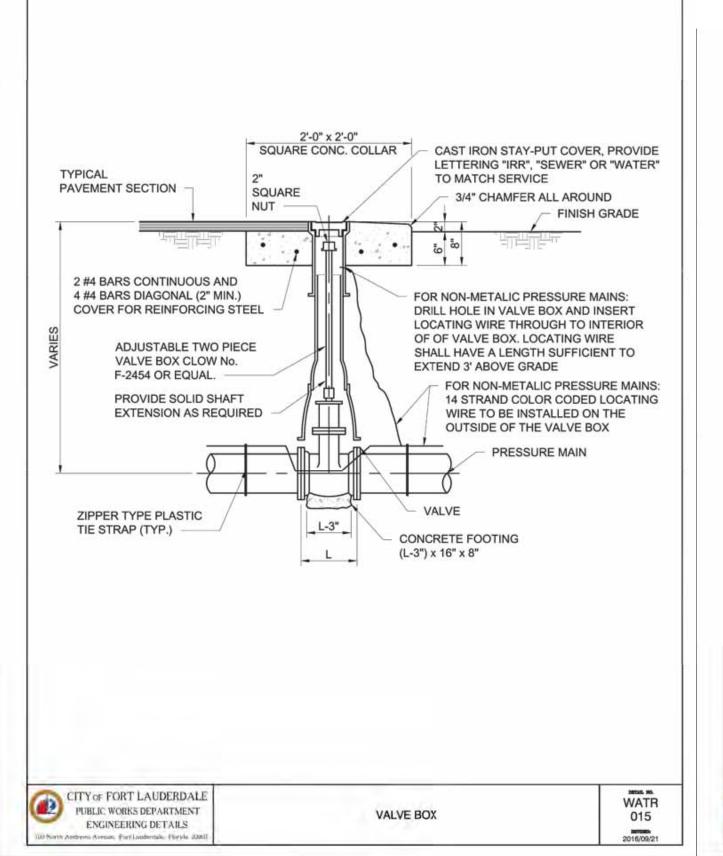


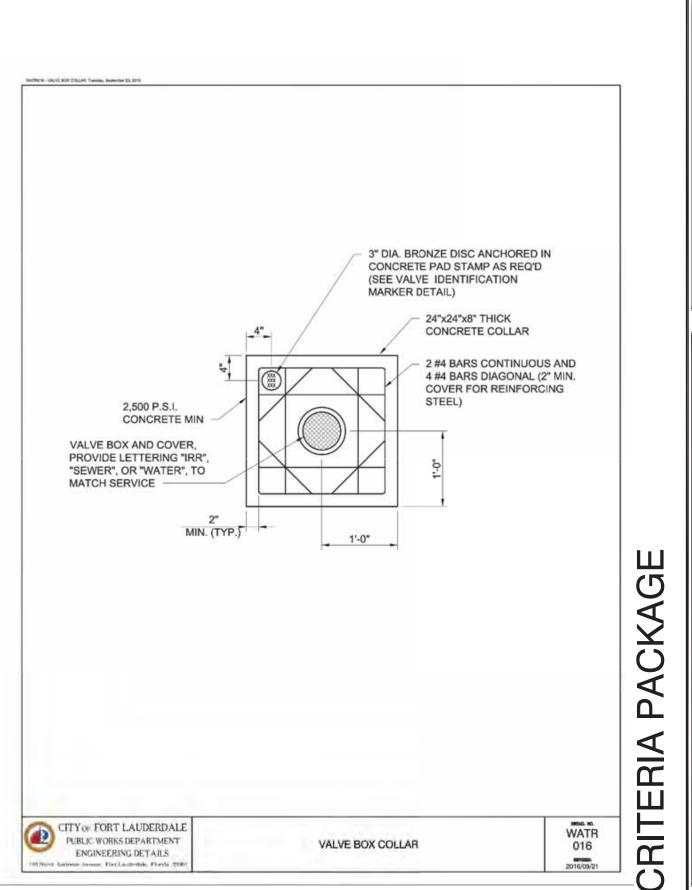


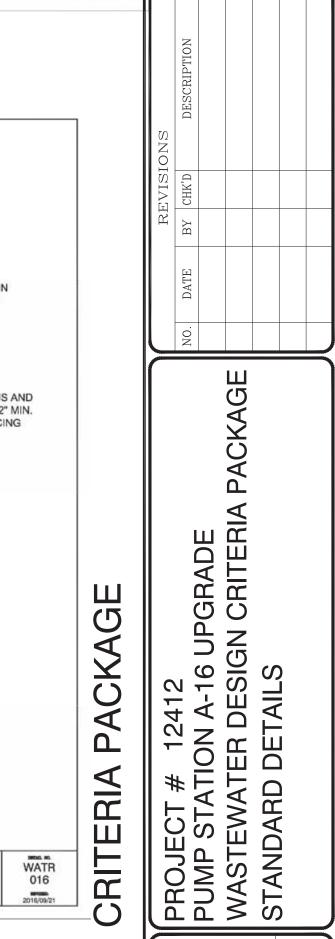














PREPARED BY:

Kimley >>> Horn
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.

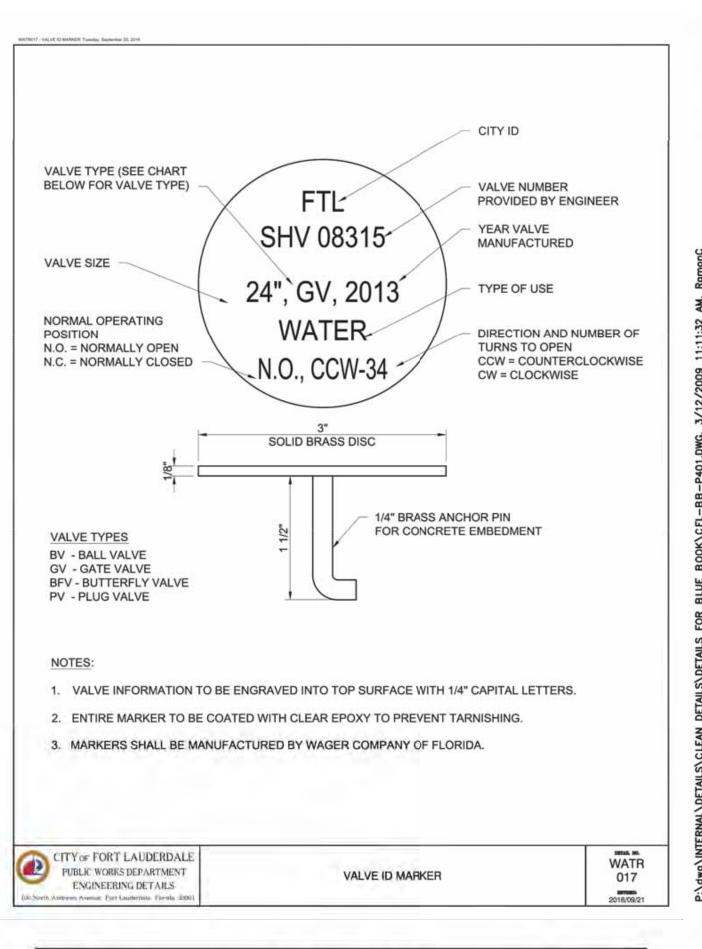
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 696

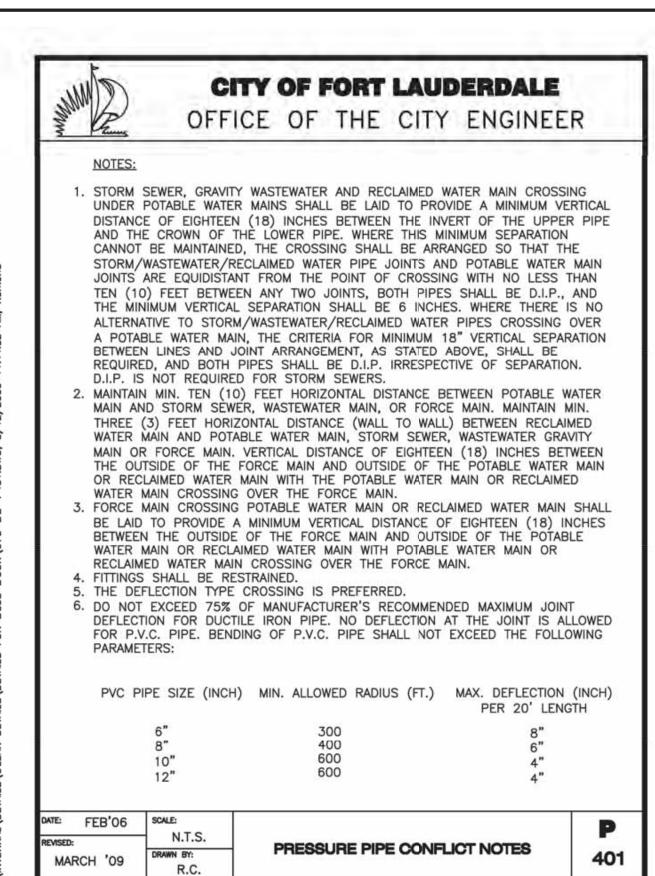
13 31

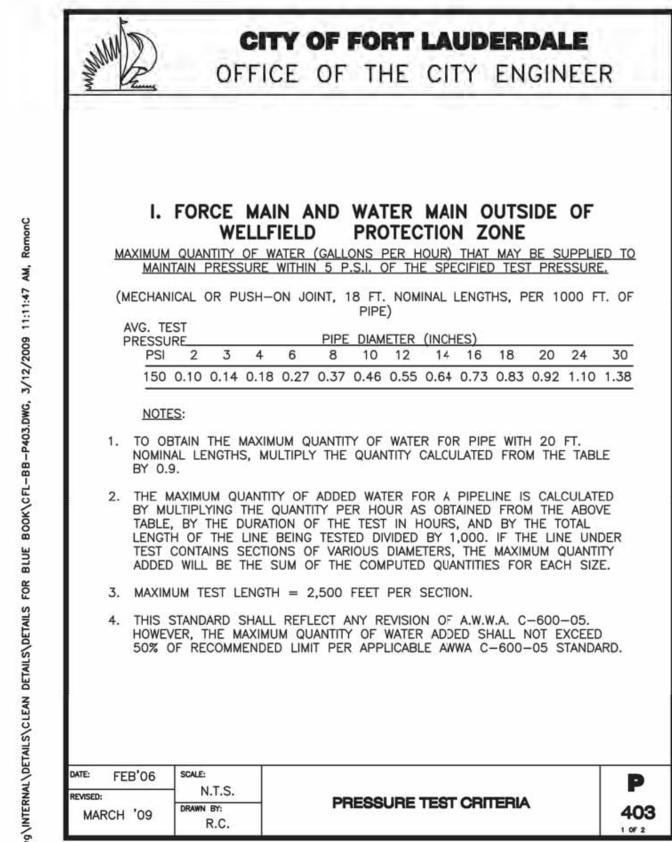
AD FILE:
12412-MULTI-DETL

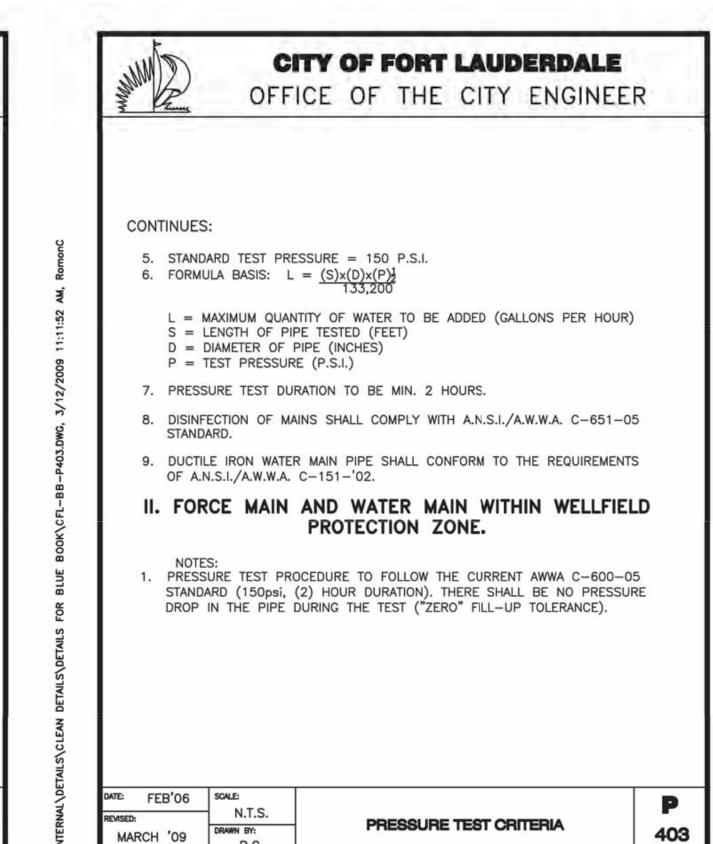
RAWING FILE NO.
4-142-31

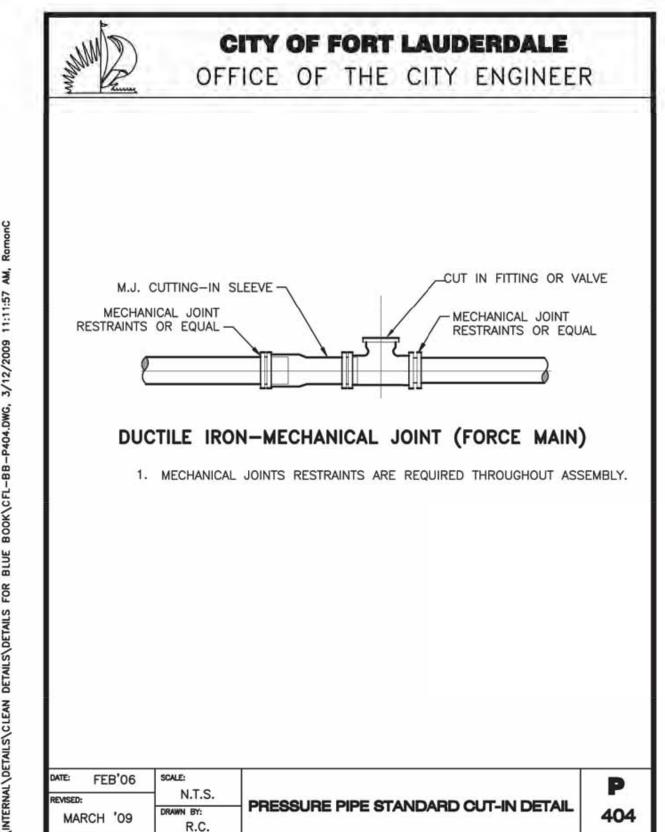
<u>G</u>N

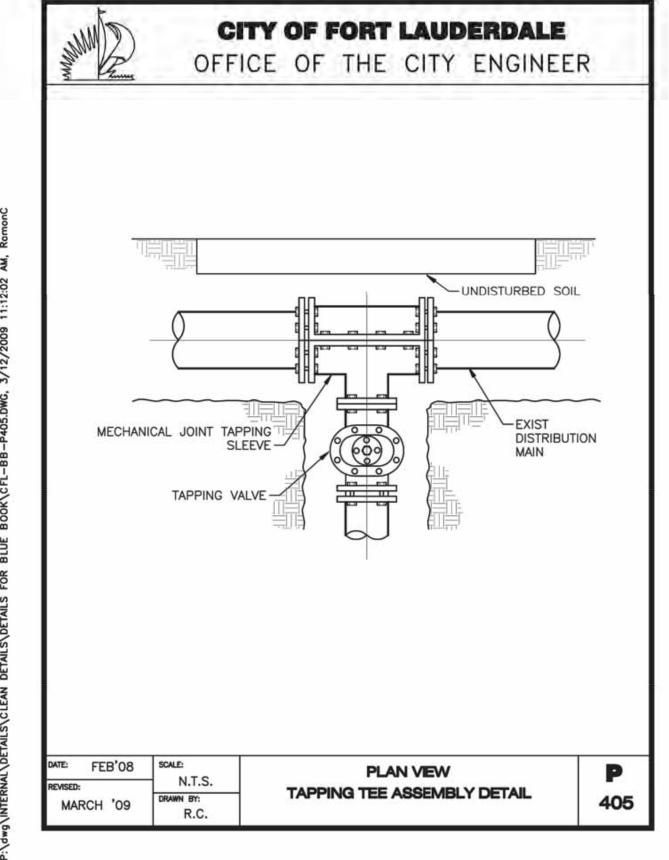


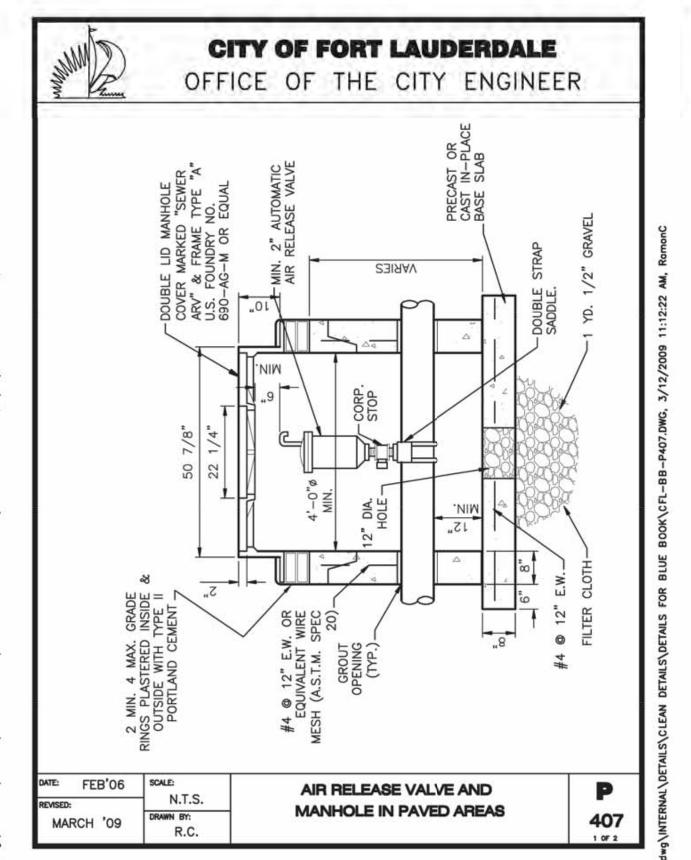


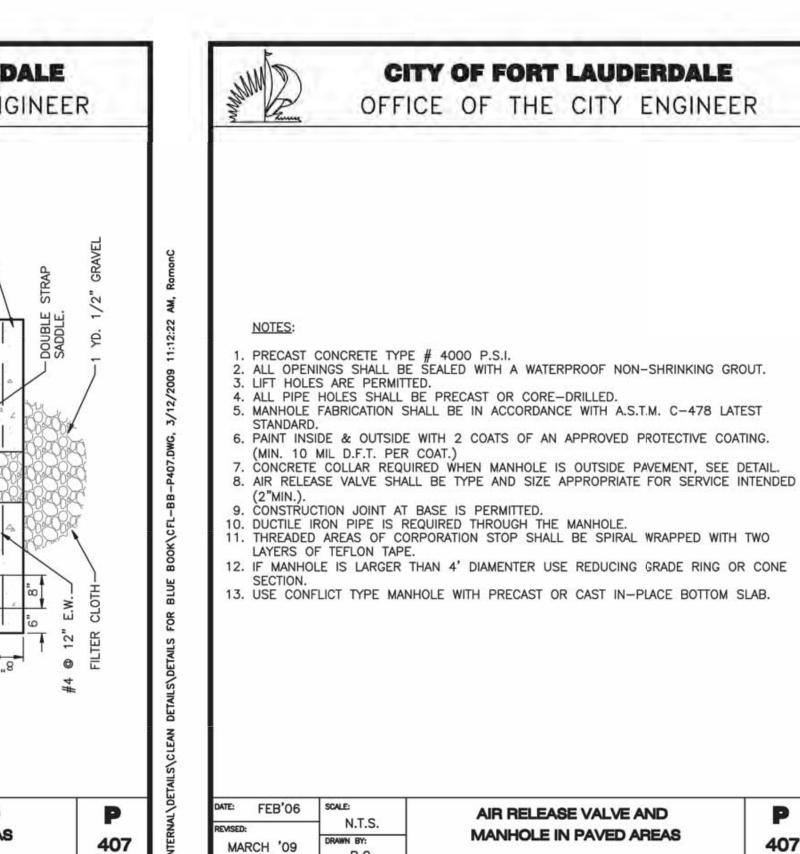












R.C.



8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

2 -16 UP :SIGN (A-DE

407

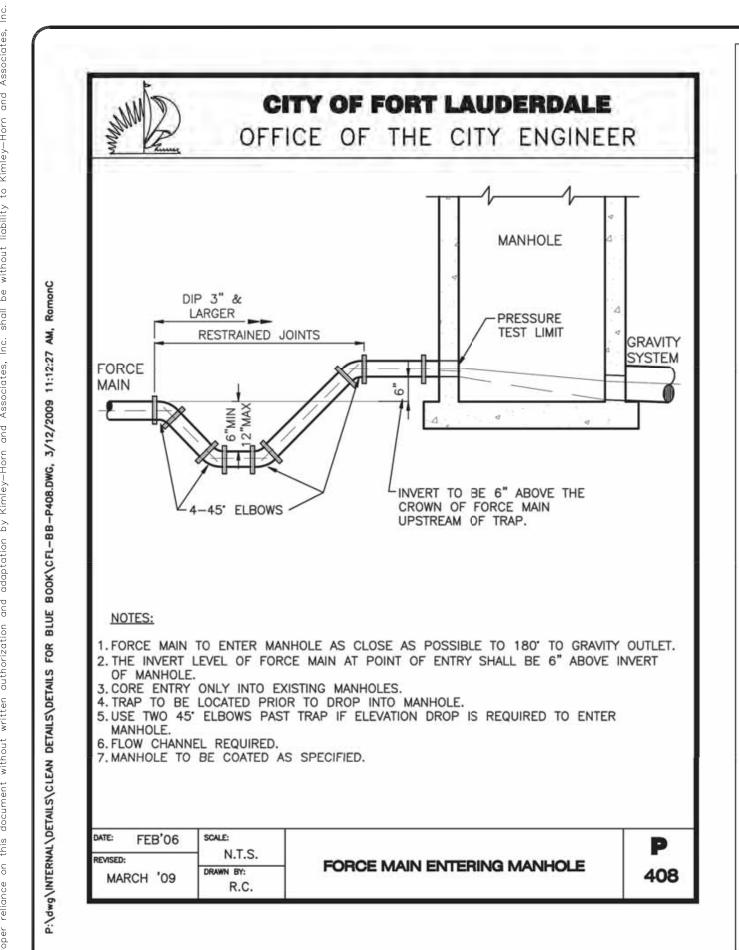
GRADE CRITERIA

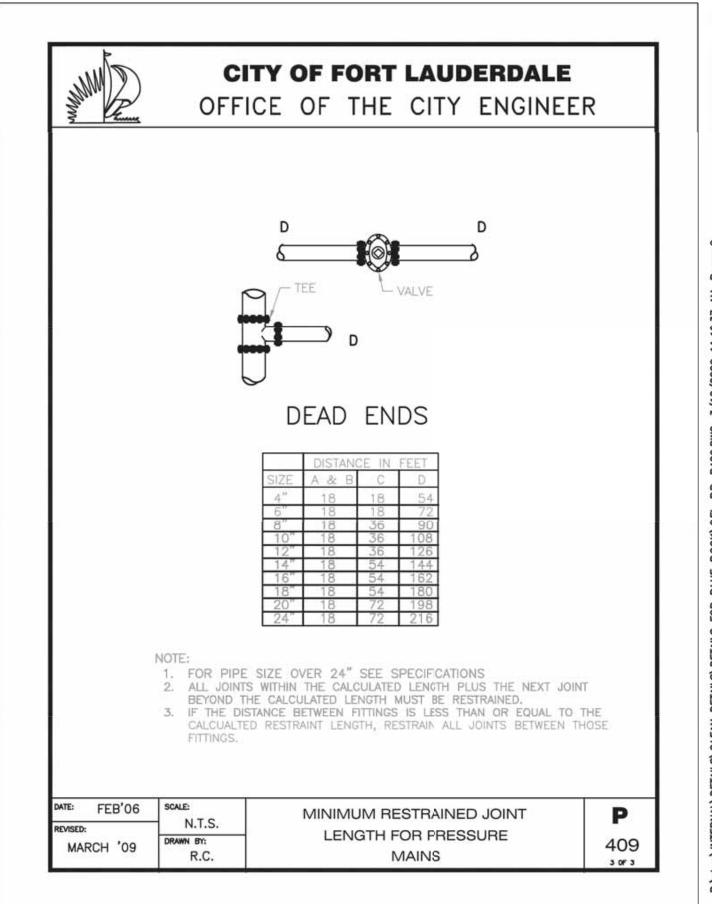
UBL

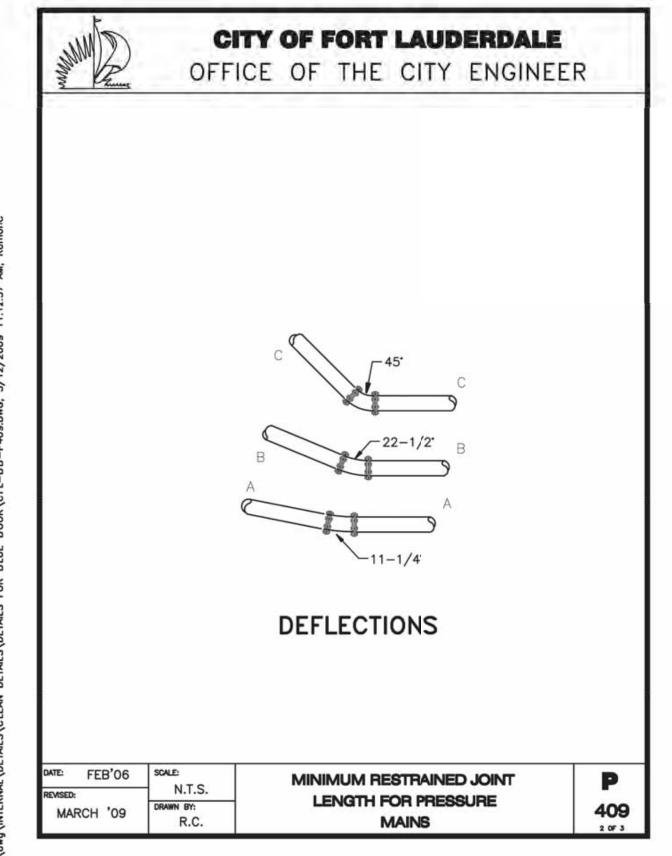
AD FILE: 12412-MULTI-DETL RAWING FILE NO. 4-142-31

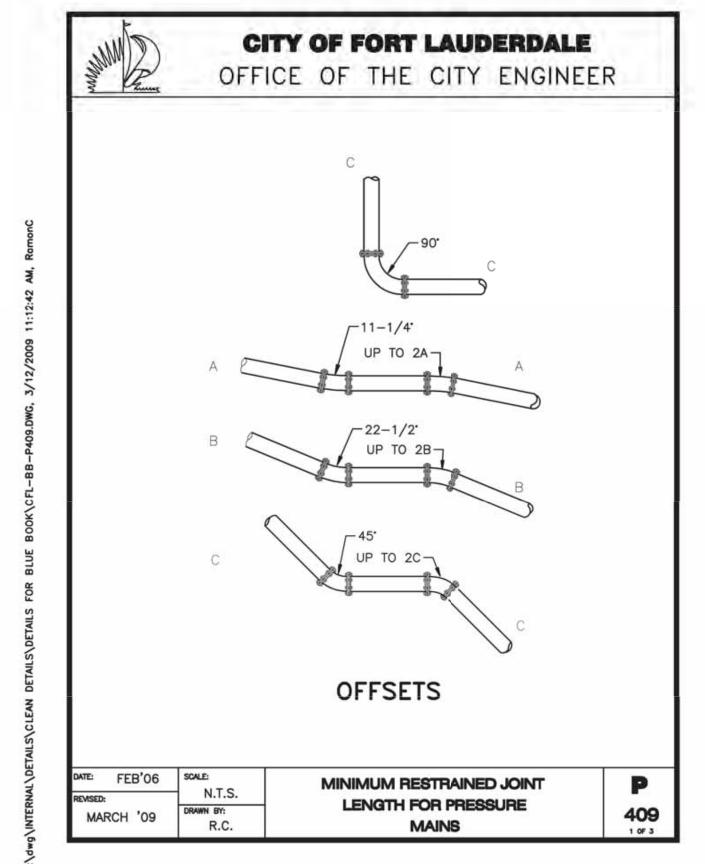
CASE: UDP-V21004 Exhibit 4 Page 15 of 32

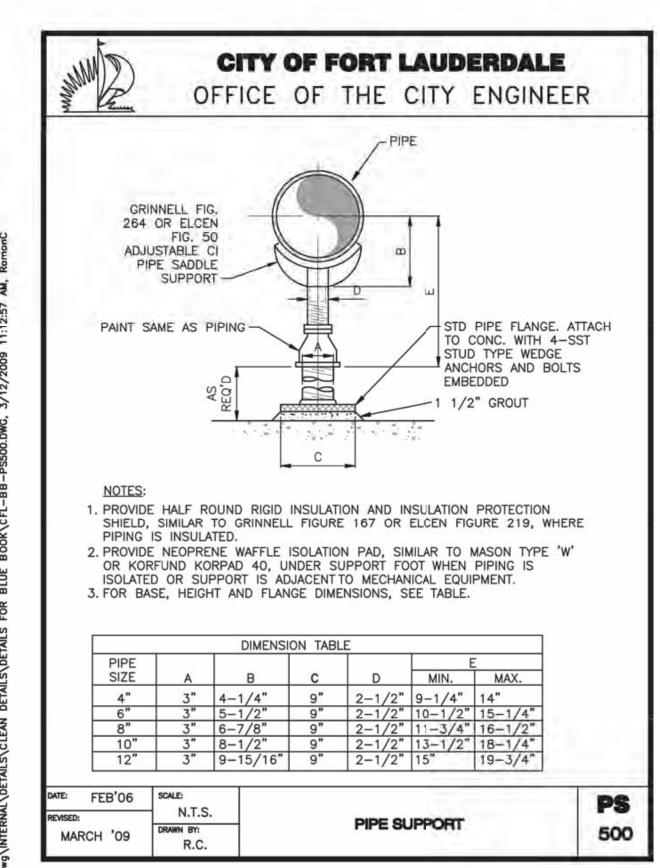
Exhibit 6

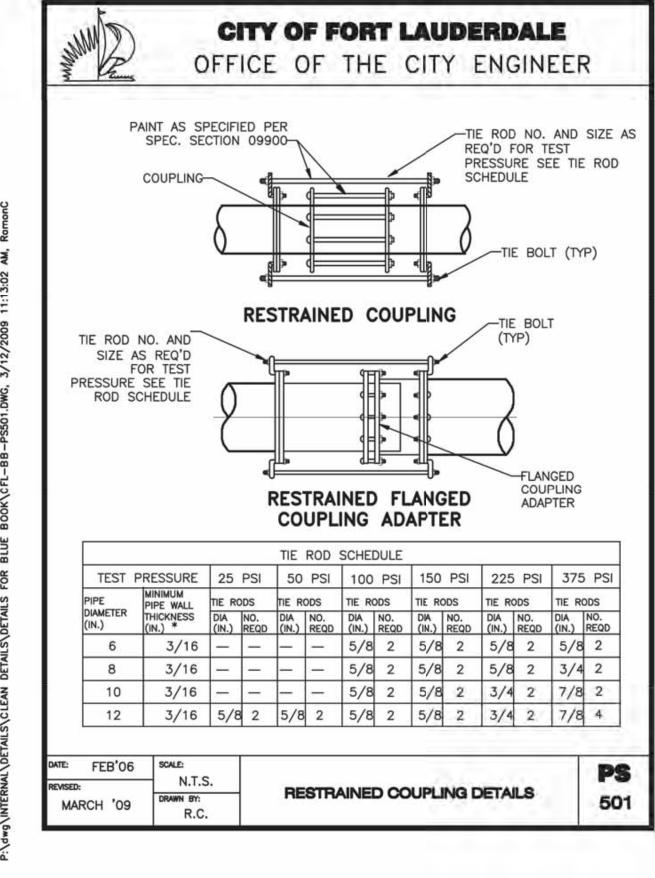


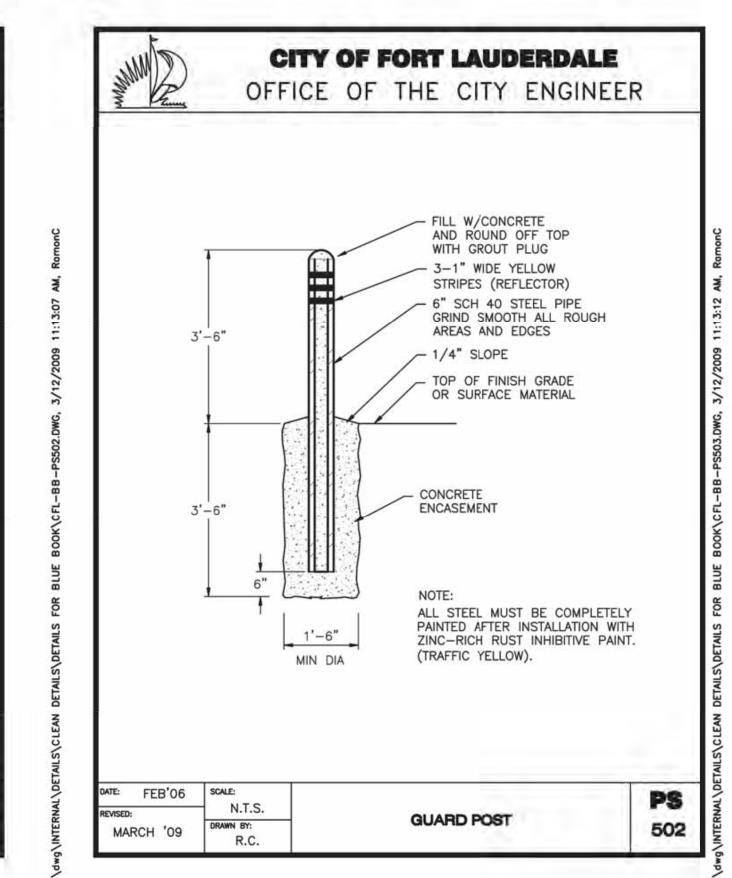


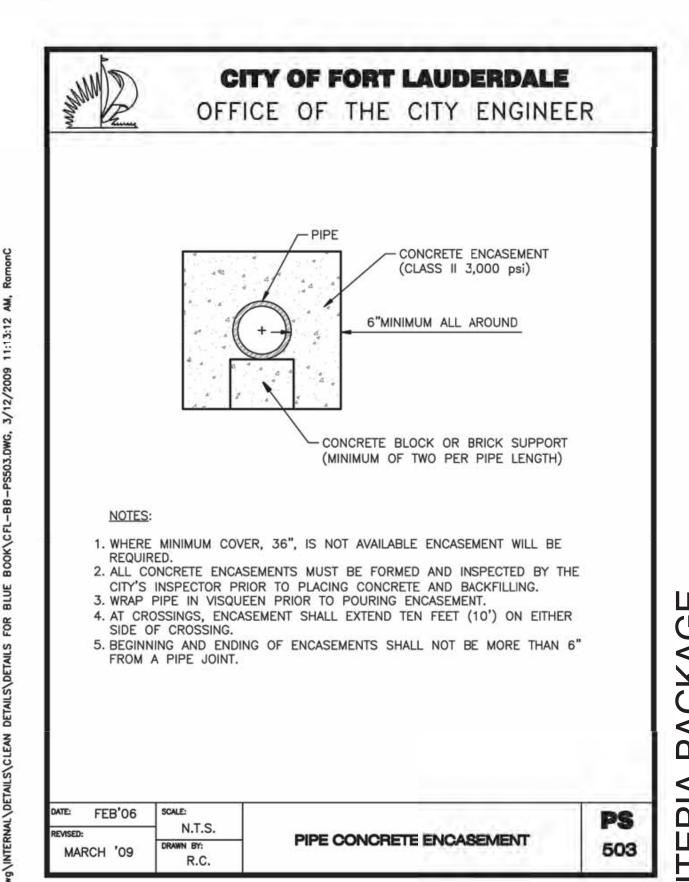














PHONE: 954-535-5100 FAX: 954-739-2247

WWW.KIMLEY-HORN.COM REGISTRY No. 696

SIGN CRITERIA PA
PROJECT # 12
PUMP STATION

PROJECT # 12412

PUMP STATION A-16 UPGRADE

WASTEWATER DESIGN CRITERIA

STANDARD DETAILS

15 31

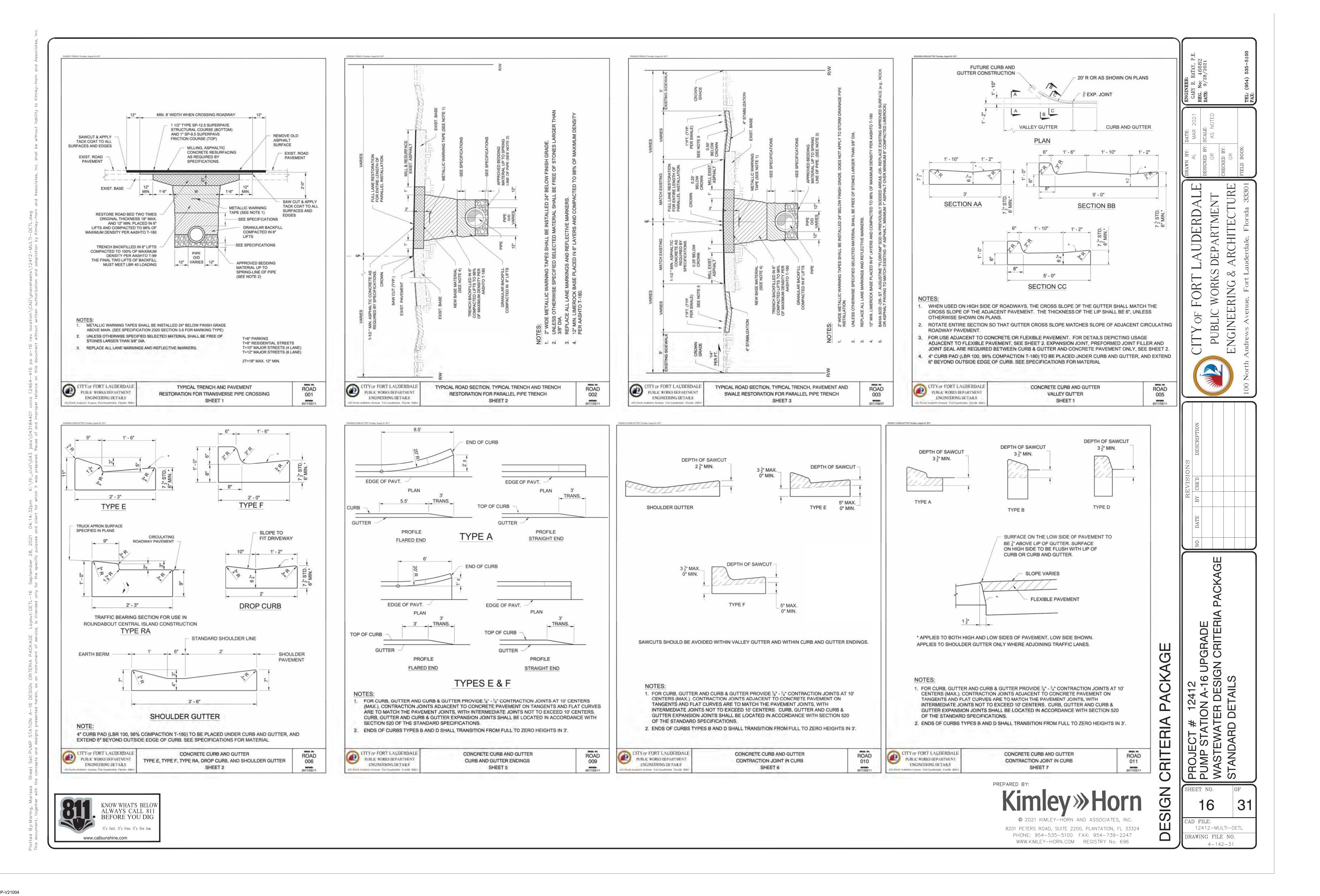
AD FILE:
12412-MULTI-DETL

RAWING FILE NO.
4-142-31

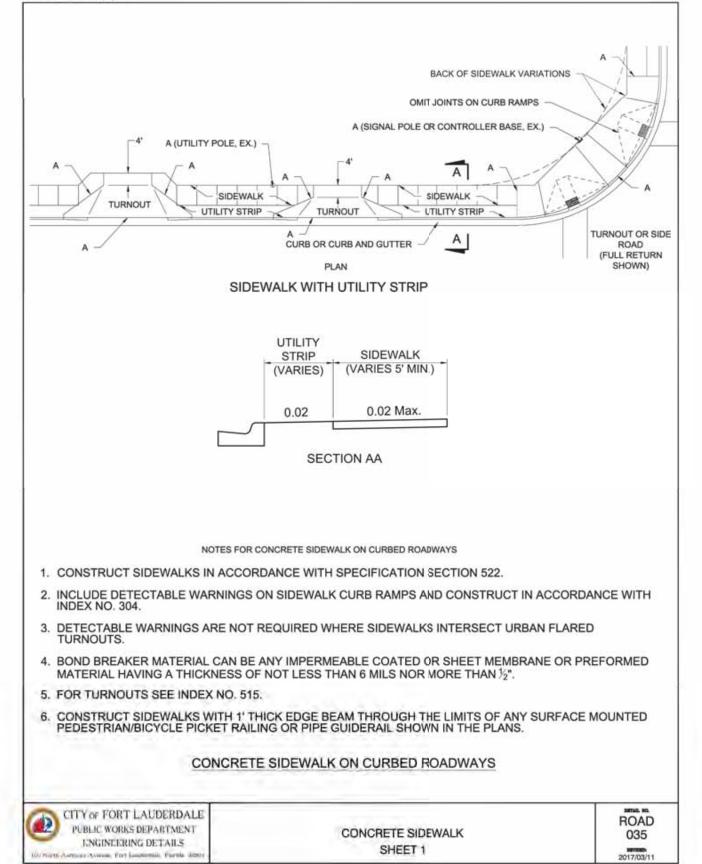
KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

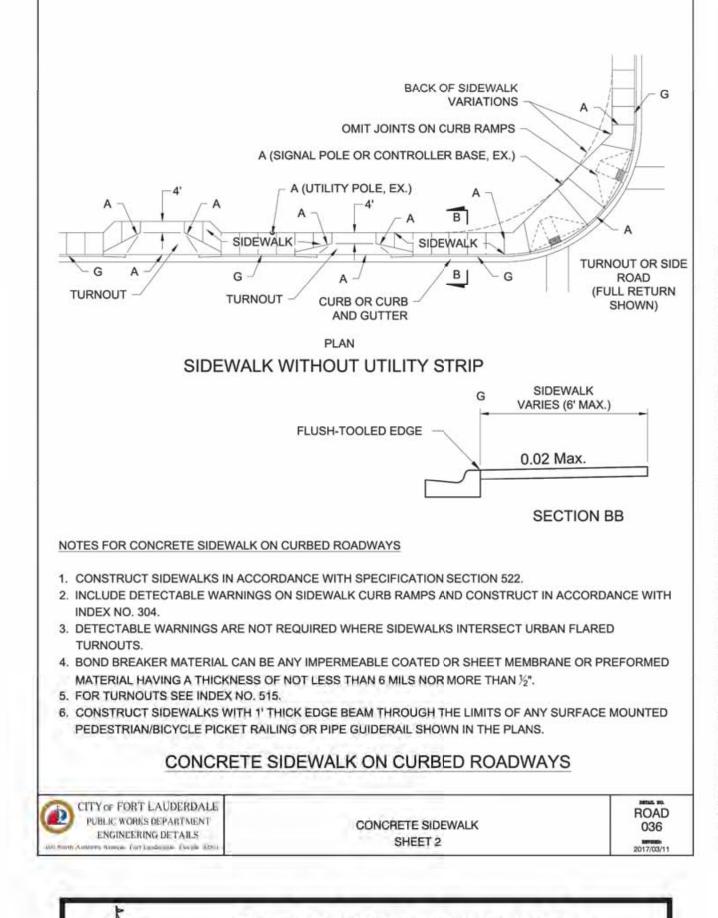
It's fast. It's free. It's the law.

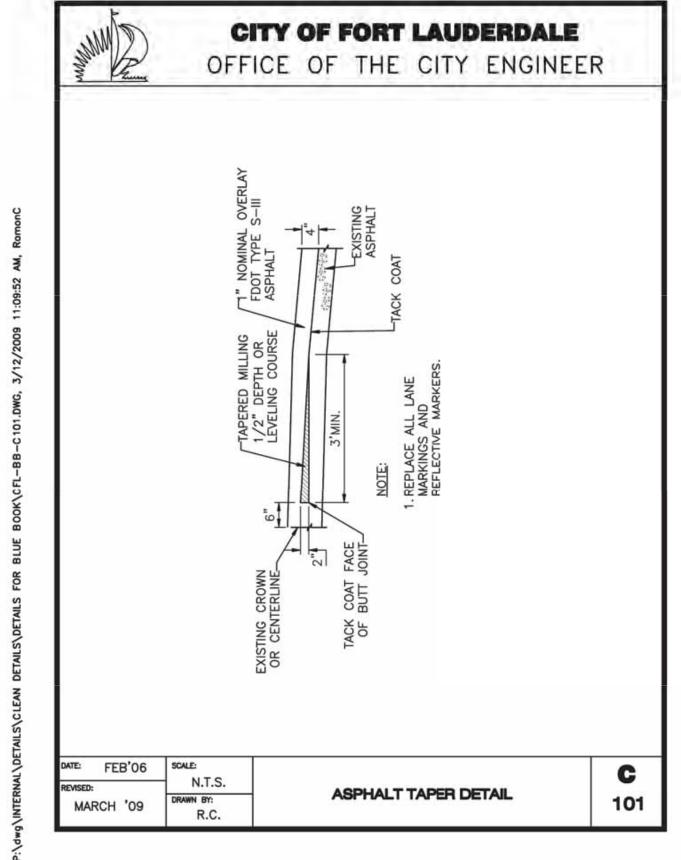
www.callsunshine.com

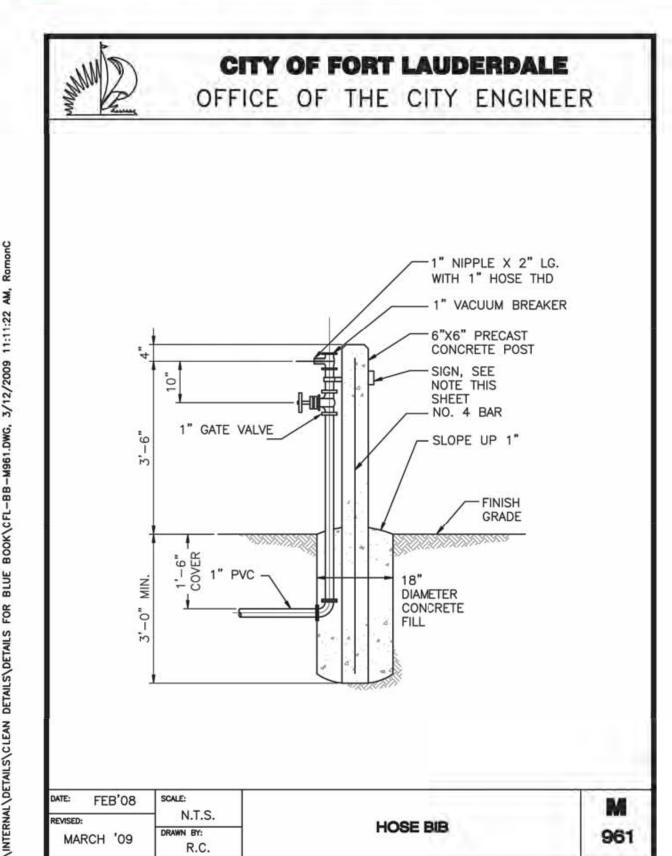


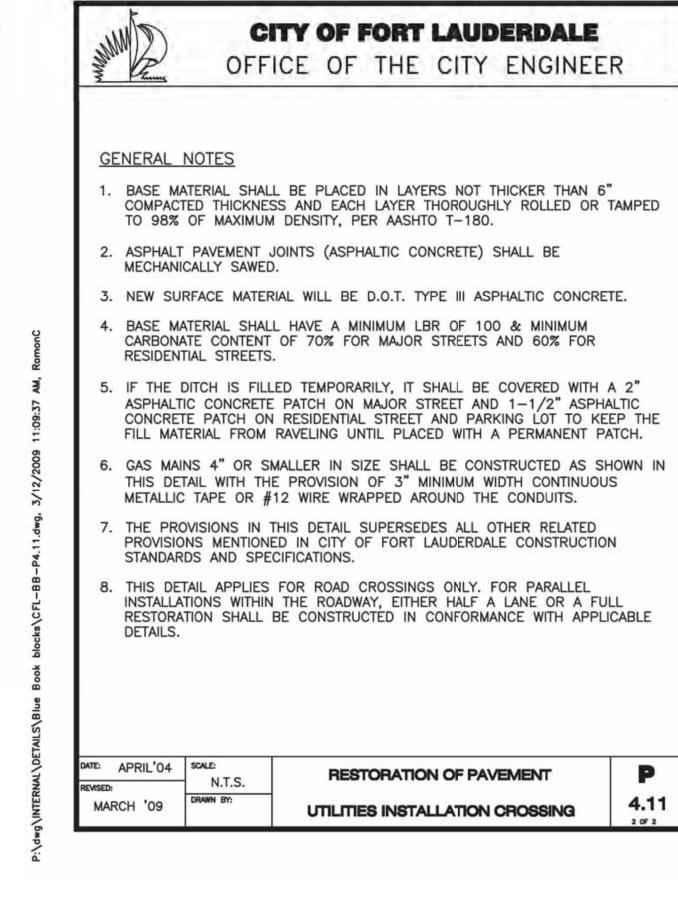


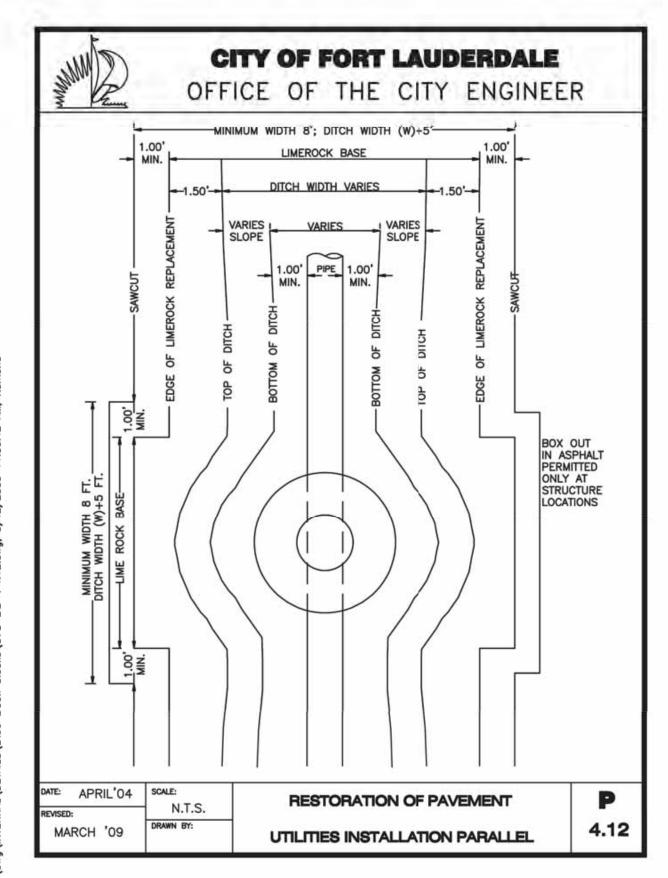


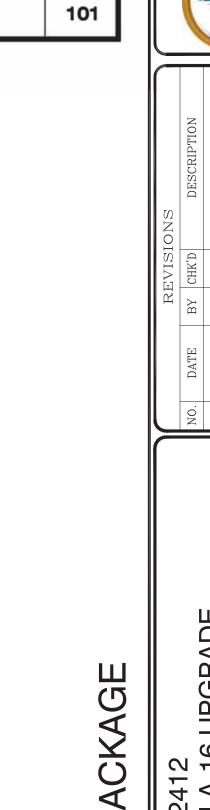












8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

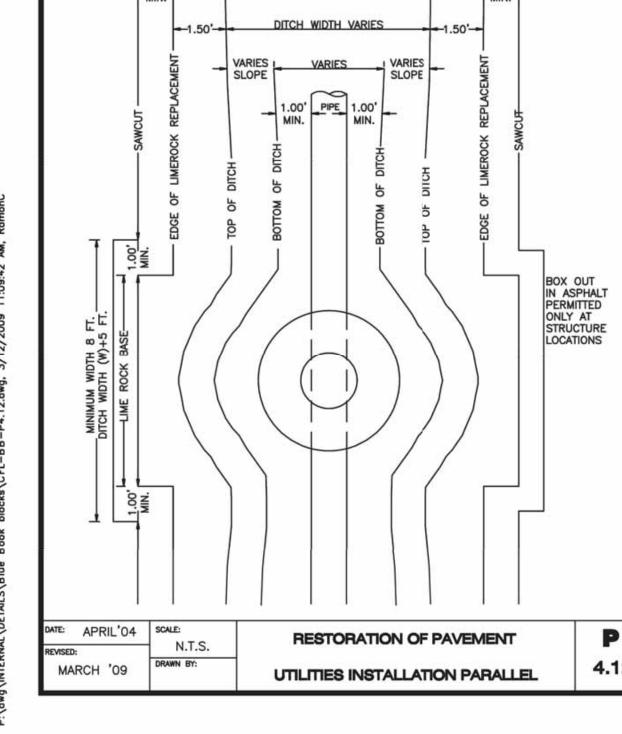
PHONE: 954-535-5100 FAX: 954-739-2247

WWW.KIMLEY-HORN.COM REGISTRY No. 696

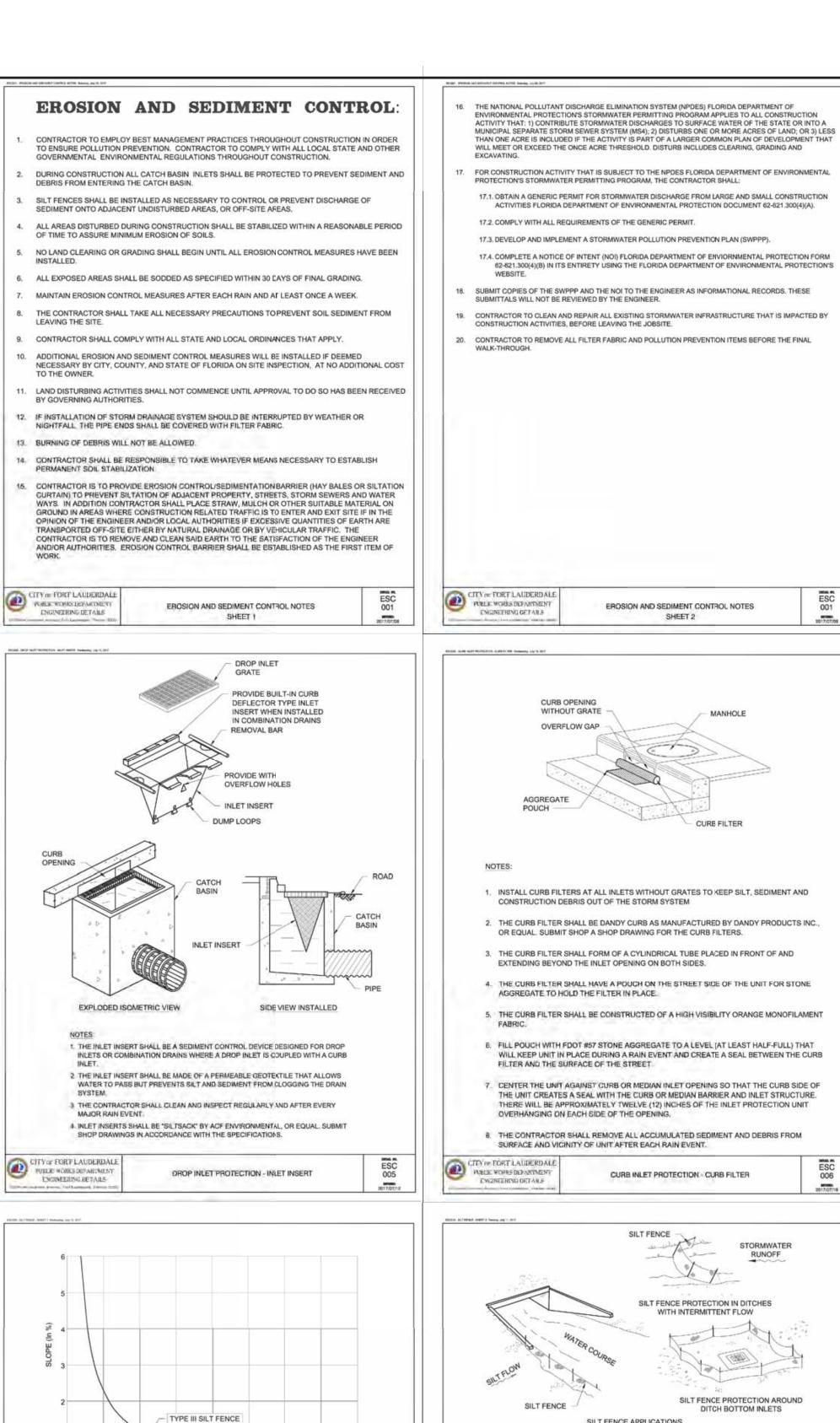
GRADE 412 A-16 UP(DESIGN (CT # 12412 STATION A-1 EWATER DES

AD FILE: 12412-MULTI-DETL RAWING FILE NO. 4-142-31

KNOW WHAT'S BELO ALWAYS CALL 81 BEFORE YOU DIG It's fast. It's free. It's the law. www.callsunshine.com



CASE: UDP-V21004 Exhibit 4 Page 18 of 32



SPACING (In Feet)

TYPE III SILT FENCE

SILT FENCE - SHEET I

SURFACE

SECTION

POSITIONS

FILTER FABRIC

PRINCIPLE POST POSITION (CANTED

20° TOWARD FLOW)

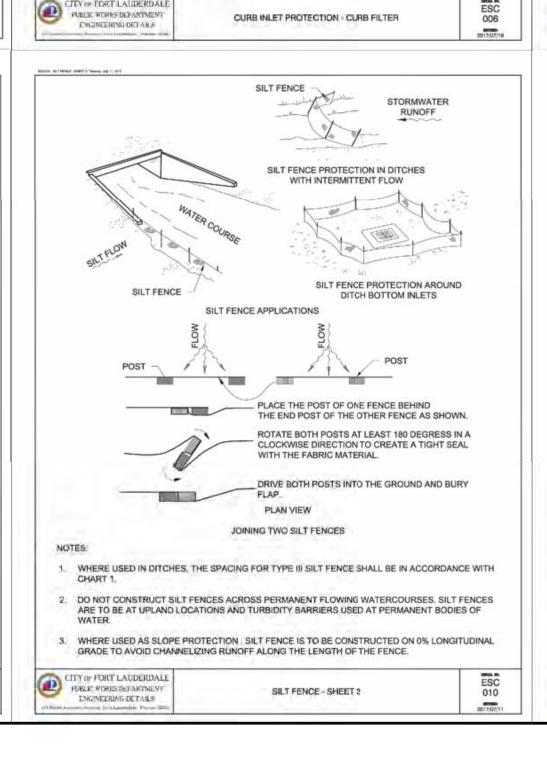
CHART 1: SILT FENCE SPACING

SOFTWOOD 2 1/2" DIA. (IN CONFORMANCE WITH SOFTWOOD 2" x 4" SEC. 935 FDOT SPEC.)
HARDWOOD 1 1/2" x 1 1/2"

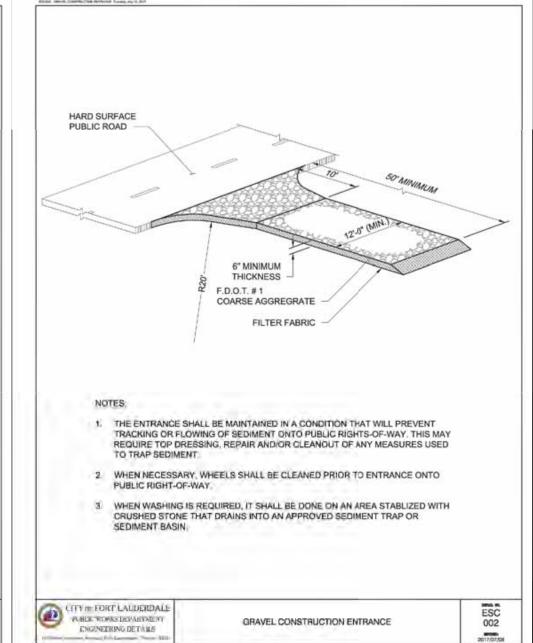
STEEL 1.33 LBS / FT

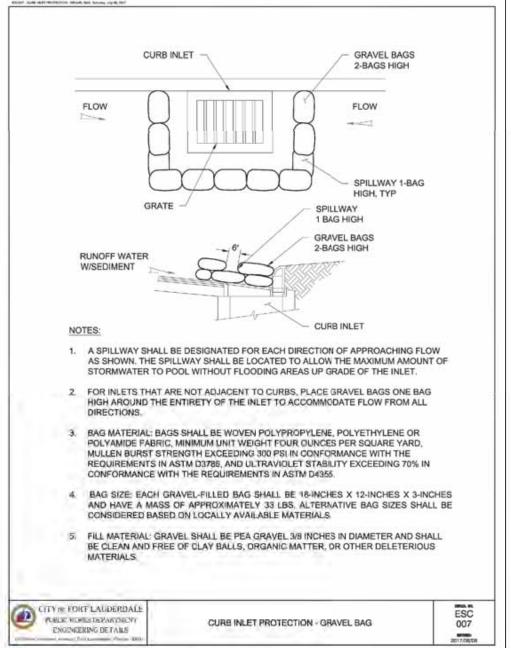
CITY OF FORT LAUDERDALS
TABLE WORKS DEPARTMENT
FACING FROM: OF TABLE

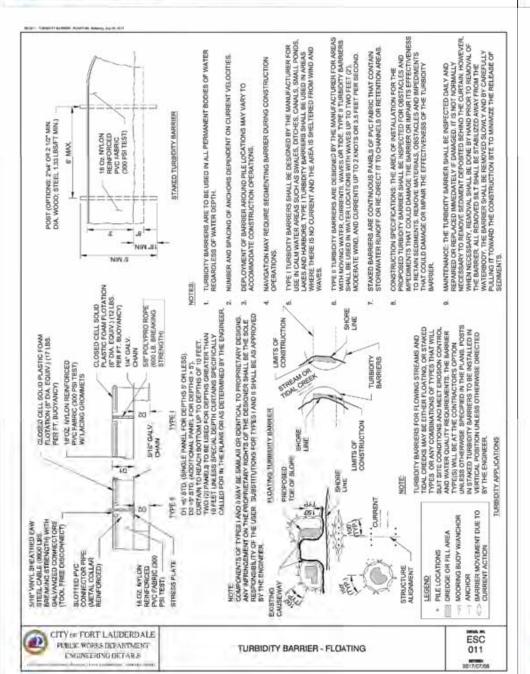
ENGINEERING DETAILS

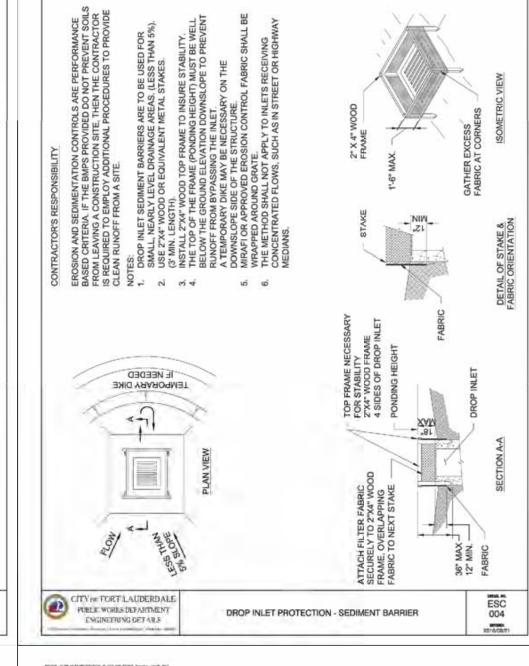


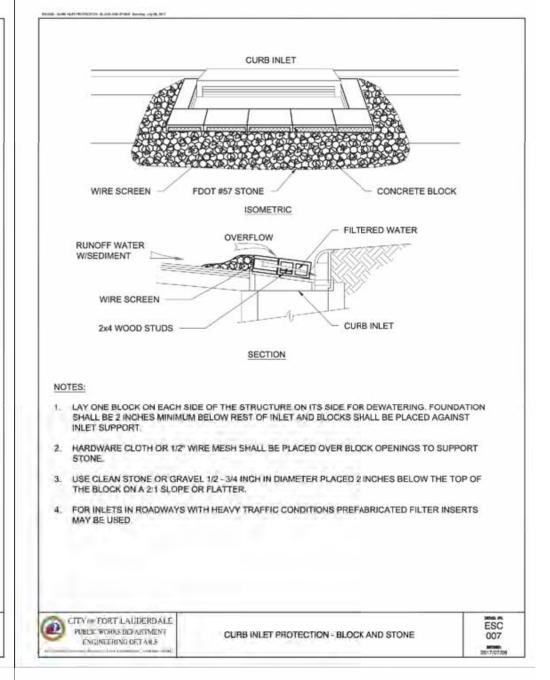
CURB FILTER

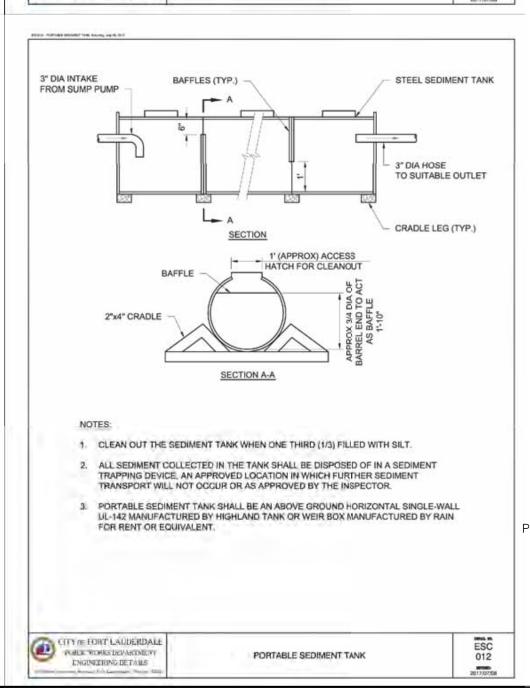


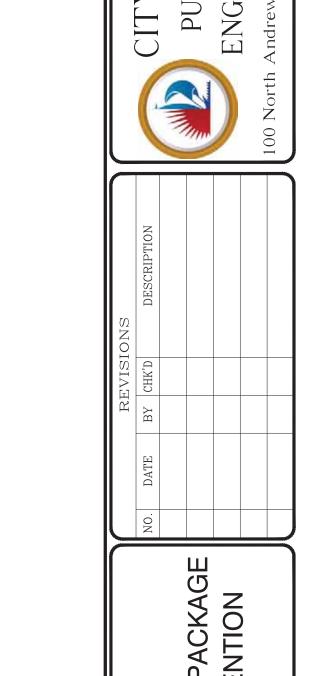












KAGE 9

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

PHONE: 954-535-5100 FAX: 954-739-2247

WWW.KIMLEY-HORN.COM REGISTRY No. 696

CRIT <u>D</u>

AD FILE: 12412-MULTI-DETL RAWING FILE NO.

4-142-31

CASE: UDP-V21004 Exhibit 4 Page 19 of 32

PROJECT # 12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PACKAGE
ELECTRICAL NOTES, SYMBOLS AND
ABBREVIATIONS

PACKAGE

CRITERIA

31 12412-19-LGND RAWING FILE NO. 4-142-31

	PLAN SYMBOLS	PLAN	SYMBOLS (CONTINUED)	CONT	ROL DIAGRAM SYMBOLS		ABBREVIATIONS	NOTES
111	HOME RUN TO PANELBOARD. NO. OF ARROWS INDICATE NO. OF CIRCUITS,	СМН	CONTROL PULLBOX. SEE "PULL BOX DETAIL"	 	NORMALLY OPEN CONTACT	A AC	AMPERES AIR CONDITIONER	ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.
	HASH MARKS INDICATE NO. OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.	□PMH	POWER MANHOLE. SEE "MANHOLE DETAIL"	- -	NORMALLY CLOSED CONTACT	AFF	ABOVE FINISHED FLOOR	2. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF
	CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING	FS	FLOW SWITCH		LIMIT SWITCH, NORMALLY OPEN	AIC BKR	AMPS INTERRUPTING CURRENT BREAKER	WITH ALL CONDITIONS AFFECTING ELECTRICAL INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF
/	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.	FE	FLOW ELEMENT		·	BLDG CP	BUILDING CONTROL PANEL	ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.	LE	LEVEL ELEMENT		LIMIT SWITCH, NORMALLY CLOSED	CPT	CONTROL POWER TRANSFORMER	SUBMITTING HIS BID.
O***	FLEXIBLE CONDUIT WITH EQUIPMENT CONNECTION.	LS	LIMIT SWITCH	7.	PRESSURE SWITCH, NORMALLY OPEN	CU CT	CONDENSING UNIT CURRENT TRANSFORMER	3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE, 2020 FLORIDA BUILDING CODE, 2014 NATIONAL FIRE
	CONDUIT ROUTING ENVELOPE (CONCRETE ENCASED DUCTBANK).	(SF)	SEAL FAIL	· 古·	PRESSURE SWITCH, NORMALLY CLOSED	DB DE	DIGESTER BLOWER DUKE ENERGY	PROTECTION ASSOCIATION AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.
Ю	WALL MOUNTED LED LIGHTING FIXTURE.	LLS	LIQUID LEVEL SWITCH	6	FLOAT SWITCH, NORMALLY OPEN	EEB	EAST ELECTRICAL BUILDING	4. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED.
	LED LIGHTING FIXTURE, CEILING MOUNTED.	<u>(vs)</u>	VIBRATION SWITCH	- रु	FLOAT SWITCH, NORMALLY CLOSED	EFF ELEC	EFFLUENT ELECTRICAL	5. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL
■-0	EXTERIOR LED LUMINAIRE AND MOUNTING STANDARD.	AIT	ANALYSIS INDICATING TRANSMITTER	7.	FLOW SWITCH, NORMALLY OPEN	EM ENCL	EMERGENCY ENCLOSURE	OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE
□	EXISTING EXTERIOR LIGHTING.	FIT	FLOW INDICATING TRANSMITTER		FLOW SWITCH, NORMALLY CLOSED	ETM	ELAPSED TIME METER	ALL REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
	EMERGENCY BATTERY PACK LIGHTING FIXTURE.		LEVEL INDICATING TRANSMITTER	•	TEMPERATURE SWITCH, NORMALLY OPEN	EUH EXH	ELECTRIC UNIT HEATER EXHAUST	6. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS
J	JUNCTION BOX N.E.C. SURFACE MOUNTED UNLESS INDICATED OTHERWISE.	(27)	TEMPERATURE SWITCH	<u> </u>	TEMPERATURE SWITCH, NORMALLY CLOSED	FPL FTC	FLORIDA POWER & LIGHT	REQUIRED BY THE LATEST EDITION OF THE N.E.C. OR LOCAL CODES. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250—122 OF
J	JUNCTION BOX PER N.E.C., NEMA 4X 316 SSS, FLUSH MOUNTED UNLESS	SH (AE)	SPACE HEATER ANALYTICAL ELEMENT	<u>۲</u>	·	FVNR	FLOAT CABLE TERMINATION CABINET FULL VOLTAGE NON-REVERSING	THE NATIONAL ELECTRIC CODE.
	INDICATED OTHERWISE.	PIT	PRESSURE INDICATING TRANSMITTER		NORMALLY OPEN, TIMED TO CLOSE CONTACT	GEN GFR	GENERATOR GROUND FAULT RECEPTACLE	7. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
JB	MOTOR JUNCTION BOX, NEMA 4X 316 SS JUNCTION BOX, 12" X 12" X 6" MINIMUM SIZE ENLARGE IF REQUIRED PER N.E.C.	PII	PRESSURE INDICATING TRANSMITTER	丁	NORMALLY CLOSED, TIMED TO OPEN CONTACT	GFI	GROUND FAULT INTERRUPTER	8. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL
	FLUSH OR SURFACE MOUNTED LIGHTING PANELBOARD.	SINGLE	LINE DIAGRAM SYMBOLS	† • _	NORMALLY CLOSED, TIMED TO CLOSE	GND GRS	GROUND GALVANIZED RIGID STEEL	CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY
	FLUSH OR SURFACE MOUNTED POWER PANELBOARD.	SINGLL	LINE DIAGNAM STMBOLS	V	CONTACT	HOA HOR	HAND-OFF-AUTOMATIC HAND-OFF-REMOTE	ENGINEER/OWNER.
39	DRY TYPE TRANSFORMER. NO. INDICATES KVA RATING.		COMBINATION MOTOR STARTER	*	NORMALLY OPEN, TIMED TO OPEN CONTACT	HP	HORSEPOWER	9. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN TWO YEARS FROM
3 <u>9</u> ■	LIQUID FILLED TRANSFORMER, KVA RATING AS SHOWN	(GFI)	GROUND FAULT INTERRUPTER	LS	LIMIT SWITCH	JB KVA	JUNCTION BOX KILO VOLT—AMPERES	DATE OF ACCEPTANCE.
•	FLUSH MOUNTED RECEPTACLE WITH USB OUTLET		FUSE	FS	FLOW SWITCH	KW	KILOWATT	10. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER
→	20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.		CAPACITOR	PS	PRESSURE SWITCH	LCP LP	LOCAL CONTROL PANEL LOOP NUMBER	PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
	20A. 125V. 3W GFI DUPLEX RECEPTACLE IN FLUSH OUTLET BOX. 48"		MOLDED CASE CIRCUIT BREAKER	1		LOP LTG	LOCAL OPERATOR PANEL LIGHTING	11. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE FPL. SEE 16050 FOR ADDITIONAL INFORMATION.
⊕	ABOVE FINISHED FLOOR OR 6" ABOVE FINISHED COUNTER AS REQUIRED		TYPICAL SELECTOR SWITCH AND CONTROL. SEE ELEMENTARY DIAGRAMS FOR EXACT TYPE.	(SV)	SOLENOID VALVE	MAX	MAXIMUM	12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING
	(AFC)	(10)	ELECTRIC A.C. MOTOR, NO. INDICATES	(LLS)	LIQUID LEVEL SWITCH	MCB MIN	MAIN CIRCUIT BREAKER MINIMUM	REQUIRED OF HIS WORK.
	20A, 125V, 3W DUPLEX RECEPTACLE, SURFACE MOUNTED. SURFACE MOUNTED GROUND FAULT DUPLEX WEATHERPROOF RECEPTACLE		HORSEPOWER. SERVICE OR EQUIPMENT GROUND.	(VS)	VIBRATION SWITCH	MLO MSC	MAIN LUGS ONLY MANUFACTURER SUPPLIED CABLE	13. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPE WRITTEN DIRECTORIES (NEW & EXISTING).
 	20A, 125V, 3W — MOUNTED 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.	-	SERVICE OR EQUIPMENT GROUND.	SD	SMOKE DETECTOR	MTD	MOUNTED	14. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE
-	20A, 125, 3W DOUBLE DUPLEX RECEPTACLE IN FLUSH OUTLET BOX.	l I,	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P	(AR)	ALARM RELAY	N NEC	NEUTRAL NATIONAL ELECTRICAL CODE	ELECTRICAL CONTRACTOR.
<u>"</u>	FLUSH MOUNTED GROUND FAULT WEATHERPROOF DUPLEX RECEPTACLE 20A,		UNLESS OTHERWISE INDICATED.	(AT)	ALARM TIMER	NTS OH	NOT TO SCALE OVERHEAD	15. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS & THE APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE
	125V, 3W -MOUNTED 48" ABOVE FINISHED FLOOR.		NON-FUSIBLE DISCONNECT SWITCH, 30A,3P	(CR)	CONTROL RELAY	P	POLE	EXACT LOCATION OF ALL EQUIPMENT.
=	FLUSH MOUNTED GFI WP DUPLEX RECEPTACLE WITH COVER RATED NEMA 4 WHILE IN USE.		UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY	M	MOTOR STARTER	PM PS	PHASE MONITOR PUMP STATION	16. NON-SHADED TEXT DENOTES NEW EQUIPMENT, STRUCTURES AND WORK. SHADED AND SLANTED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES.
	DISCONNECT RACK MOUNTED.		ELEMENTARY DIAGRAMS OR SPECS.	1	TIMING RELAY	PSCP SH	PUMP STATION CONTROL PANEL SHIELDED	17. ALL CONTROL PANELS SHALL BE UL LISTED AND SHALL COMPLY WITH
	OFF REMOTE/DISCONNECT RACK MOUNTED WITH JUNCTION BOX MOUNTED	U	CROUSE HINDS EYSR FITTING W/CHICO SPEED SEAL COMPOUND			SPD	SURGE PROTECTION DEVICE	ARTICLE 409 OF THE NEC.
	BELOW OFF REMOTE. NEMA 3R SS UNLESS OTHERWISE NOTED.		LIGHTING PANELBOARD	(XS)	TORQUE SWITCH	SS	STAINLESS STEEL SOLID STATE STARTER	18. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULL STRING.
S	SINGLE POLE SWITCH IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (TYPICAL).		POWER PANELBOARD.		ALARM INDICATING LIGHT	STR	STARTER SWITCH	
<u>ş</u>	SINGLE POLE SWITCH, SURFACE MOUNTED.		OUDDENT TRANSFORMEDS	R	RUN INDICATING LIGHT	SW TC	TERMINATION CABINET	
S ₃	THREE-WAY SWITCH IN FLUSH OUTLET BOX.	ू	CURRENT TRANSFORMERS	• •	MOMENTARY CONTACT PUSHBUTTON	TYP UG	TYPICAL UNDERGROUND	
S ₄	FOUR-WAY SWITCH IN FLUSH OUTLET BOX.	 → —	POTENTIAL TRANSFORMERS.	• 1 •	MOMENTARY BREAK PUSHBUTTON OR RESET	UPS	UNINTERRUPTABLE POWER SUPPLY	
•	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P NEMA 4X 316 SS UNLESS OTHERWISE INDICATED.	TC	NEMA 4X 316 STAINLESS STEEL TERMINATION CABINET.	K	KEYED SWITCH	V VFD WEB	VOLT VARIABLE FREQUENCY DEVICE WEST ELECTRICAL BUILDING	
_ 30/	20 NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS	TS	TEMPERATURE SWITCH		MAINTAINED CONTACT ON-OFF SWITCH	W	WATT WITH	
	OR SPECS.	(SF)	SEAL FAIL SWITCH	+	START/STOP(S/S) CONTROL SWITCH MAINTAINED CONTACT	W/ WP	WEATHERPROOF	
(10)	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.	PIT	DDECOUDE MUNICIPALITY TO THE PROPERTY OF THE P			XFMR ø	TRANSFORMER PHASE	
	FUSED DISCONNECT SWITCH(30/20: 30=SWITCH RATING, 20=FUSE RATING) 3 POLE-UNLESS NOTED OTHERWISE.		PRESSURE INDICATING TRANSMITTER		THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH			
	MOTORIZED VALVE	(LSH)	HIGH LEVEL FLOAT		FUSE			
ı 🔀		l l fit l	FLOW INDICATING TRANSMITTER	1	I	1	İ	

MOLDED CASE CIRCUIT BREAKER

CONTROL POWER TRANSFORMER

REMOTE TERMINAL BLOCK POINT

FLOW ELEMENT

FIT

FE

FLOW INDICATING TRANSMITTER

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

T

THERMOSTAT

ELECTRIC HEATER

VARIABLE FREQUENCY DRIVE

COMBINATION MOTOR STARTER, DISCONNECT SWITCH

HAMMOND & ASSOCIATES, INC. CONSULTING ENGINEERS CONSULTING ENGINEERS

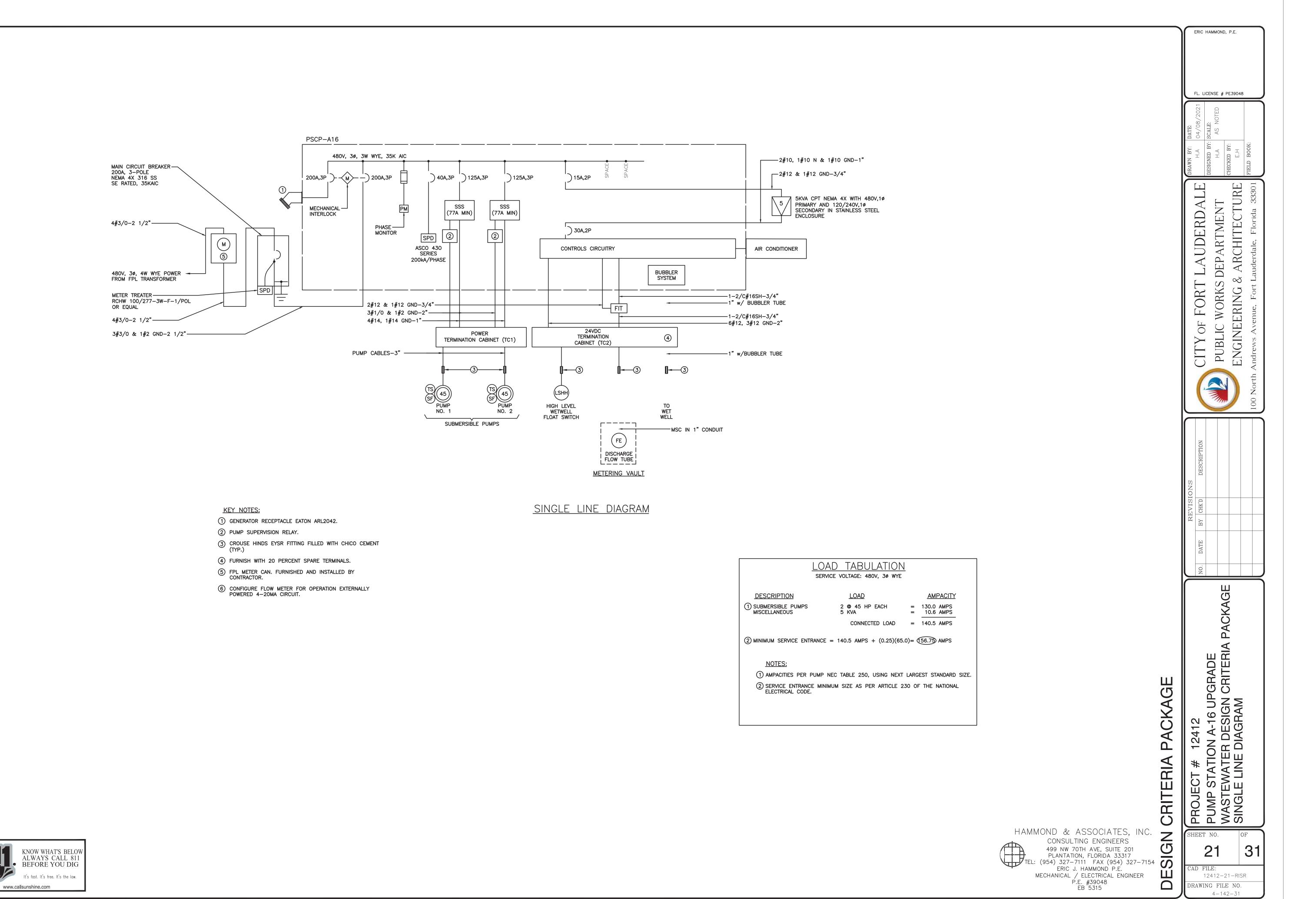
499 NW 70TH AVE, SUITE 201
PLANTATION, FLORIDA 33317

TEL: (954) 327-7111 FAX (954) 327-7154

ERIC J. HAMMOND P.E. MECHANICAL / ELECTRICAL ENGINEER
P.E. #39048
EB 5315

CASE: UDP-V21004 Exhibit 4 Page 20 of 32





DESCRIPTION

1A FAST ACTING MIDGET FUSE WITH 600VAC VOLTAGE RATING FOR PROTECTION OF CONTROL AND ELECTRONIC CIRCUITS

24VDC STANDARD DPDT SCREW CONNECTION TERMINAL BLOCK RELAYS

RECEPTACLE ASSEMBLY WITH AJ BACK BOXES AND ANGLE ADAPTERS 200A 3 PHASES 4 POLES

ENCLOSURE INNER DOOR ALARM (BRUSHED)

MAGNETIC SWITCH INC FOR SS ENCLOSURE

LIGHT SOURCE

MAGNETIC FLOW METER

AIR COMPRESSOR FOR FUSE WITH BUBBLER TYPE LIQUID LEVEL CONTROL SYSTEMS W/ MOUNTING BRACKET RANGE OF 0-15 FEET OF WATER COLUMN

GENERAL PURPOSE PRESSURE TRANSMITTER, 4-20MA 2-WIRE SIGNAL OUTPUT, SS 316L WETTED PARTS, 0-15 PSI RANGE, +/-0.5% ACCURACY, 1/4" MALE NPT CONNECTION WIKA 50426397

NOTES:

1 BILL OF MATERIALS SHALL NOT BE CONSIDERED AS FINAL. VENDOR SHALL PROVIDE ALL DEVICES AND EQUIPMENT REQUIRED TO PROVIDE THE FUNCTIONALITY POWER SOURCE CIRCUITS INDICATED AND REQUIRED.

MANUFACTURER PART NUMBER

ALLEN-BRADLEY, 1763-L16BWA

ALLEN-BRADLEY, 1762-IQ80W6

LITTLEFUSE OBLS001.T OR SIMILAR

EATON XRU2D24 + XRR2D24

FEDERAL SIGNAL LP1-120R

DEAD FRONT

CROUSE HINDS

ABB MAGMASTER

INGRAM PRODUCTS PART NO. HR10WB3 + PART NO. HRMTBK1

ALLEN-BRADLEY, 1762-IQ16

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

It's fast. It's free. It's the law.

www.callsunshine.com

69

POS | QTY

MICROLOGIX 1100 PROGRAMMABLE CONTROLLER

6-POINT SINK/SOURCE DC INPUT AND 6-POINT AC/DC RELAY OUTPUT MODEL

16-POINT SINK/SOURCE 24V INPUT MODULE

HAMMOND & ASSOCIATES, INC.

CONSULTING ENGINEERS

499 NW 70TH AVE, SUITE 201
PLANTATION, FLORIDA 33317

TEL: (954) 327-7111 FAX (954) 327-7154

ERIC J. HAMMOND P.E.
MECHANICAL / ELECTRICAL ENGINEER
P.E. #39048
EB 5315

E BY CHKD DESCRIPTION

E BY CHKD DESCRIPTION

E BY CHKD DESCRIPTION

CITY OF FORT LAUDERDALE

H.A 04/08/2021

PUBLIC WORKS DEPARTIMENT

ENGINEERING & ARCHITECTURE

E.H

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

ERIC HAMMOND, P.E.

FL. LICENSE # PE39048

412
A-16 UPGRADE
DESIGN CRITERIA PACKAGE
EL BILL OF MATERIALS

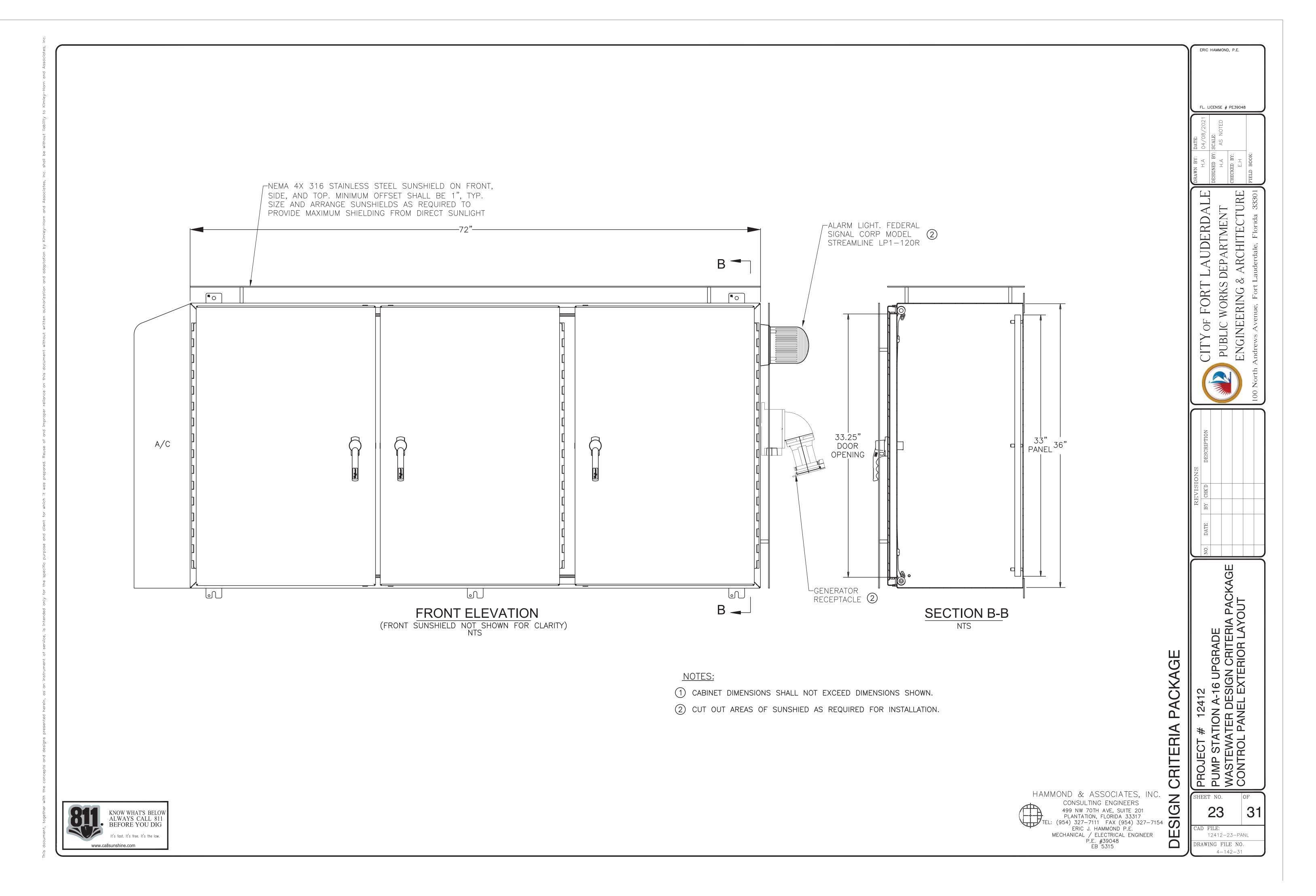
PROJECT # 12412
PUMP STATION A-16 UPG
WASTEWATER DESIGN C
CONTROL PANEL BILL O

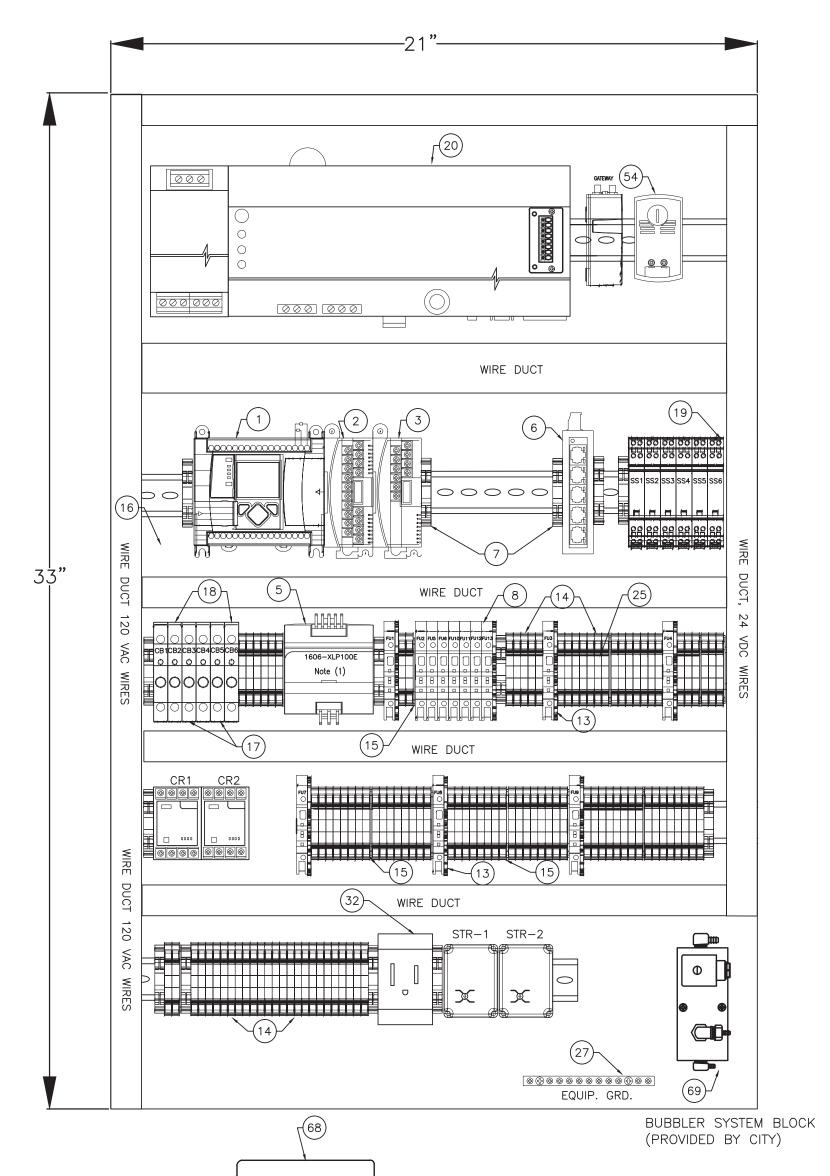
DEET NO. OF

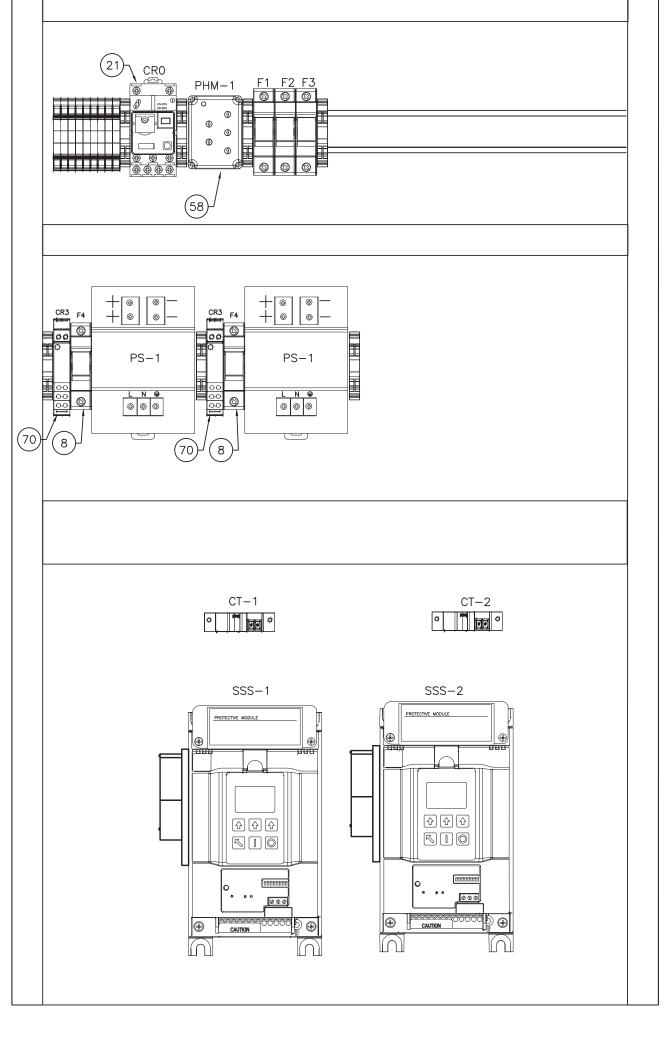
22 31

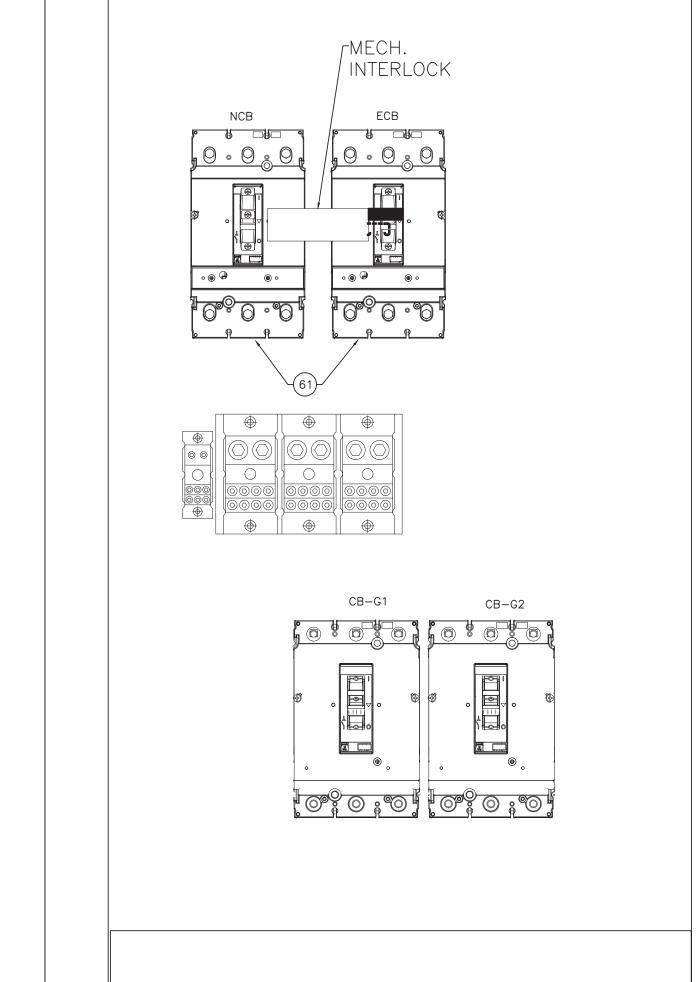
AD FILE:
12412-22-PBOM

RAWING FILE NO.
4-142-31



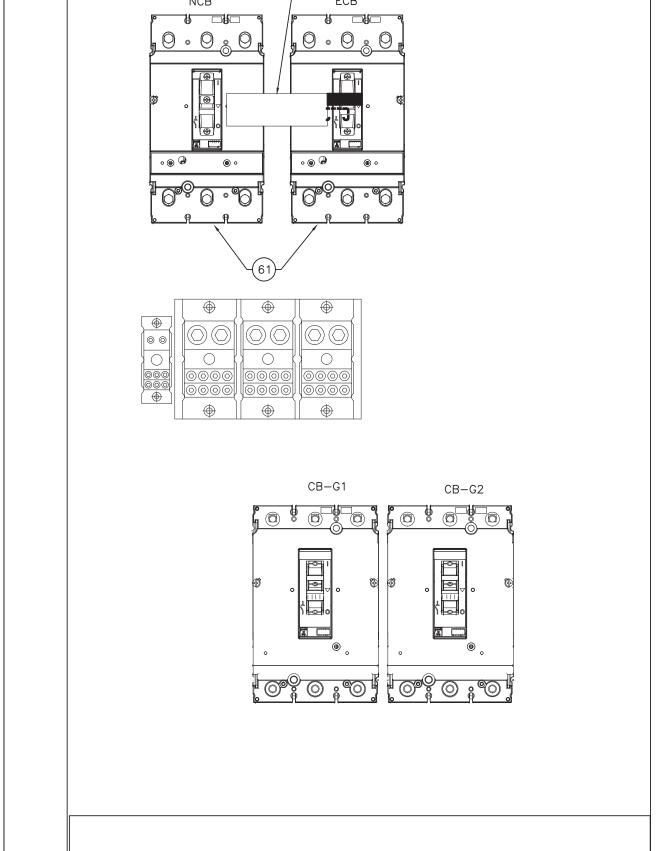






GENERAL ELECTRICAL NOTES:

1. FOR EACH SECTION, USE LEFT WIRE DUCTS FOR 120 VAC WIRES AND RIGHT WIRE DUCTS FOR 24 VDC WIRES.



PACKAGE

ERIC HAMMOND, P.E.

FL. LICENSE # PE39048

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

PROJECT # 12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PACKAGE
CONTROL PANEL COMPONENT LAYOUT

AD FILE:

12412-24-PANL

4-142-31

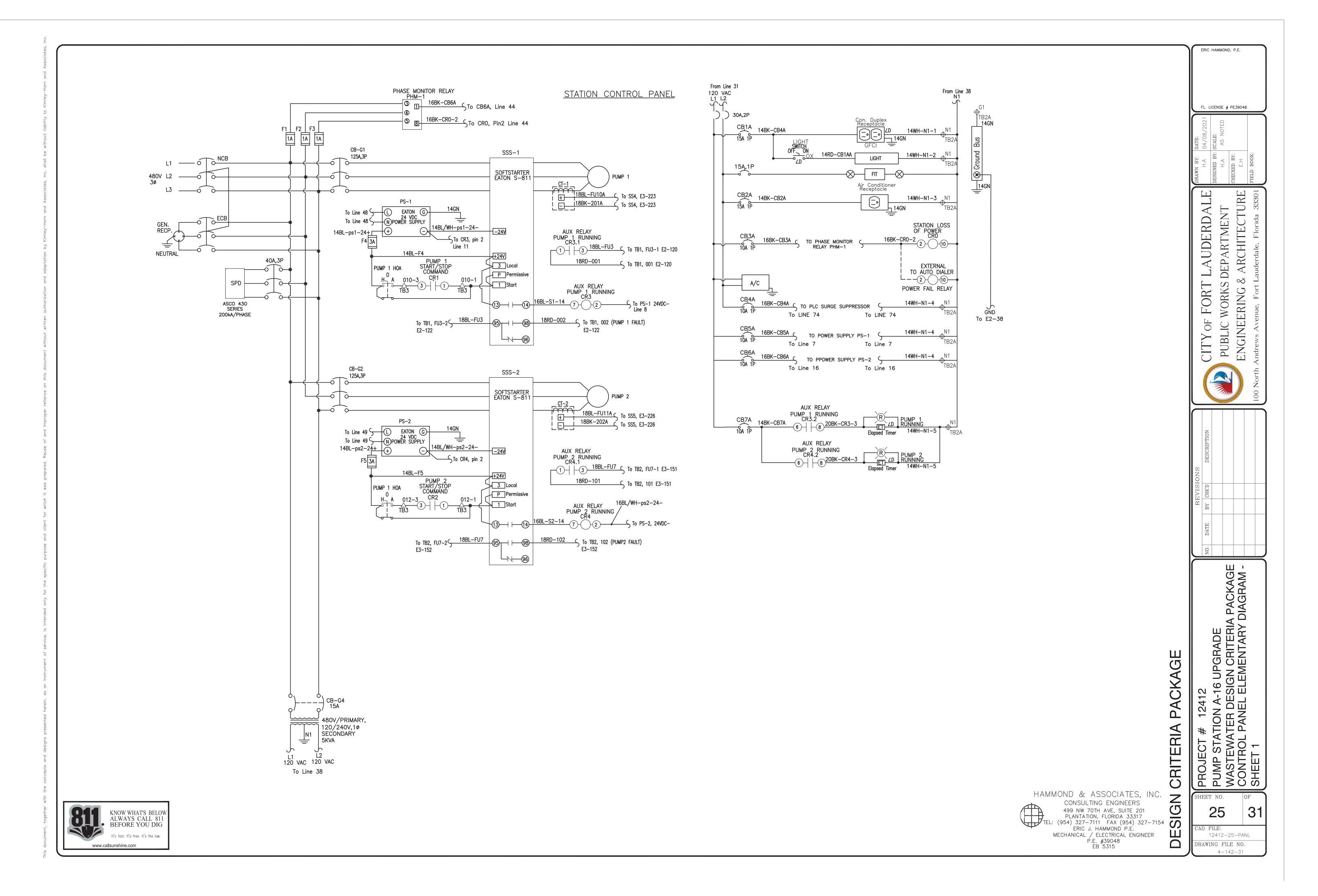
RAWING FILE NO.

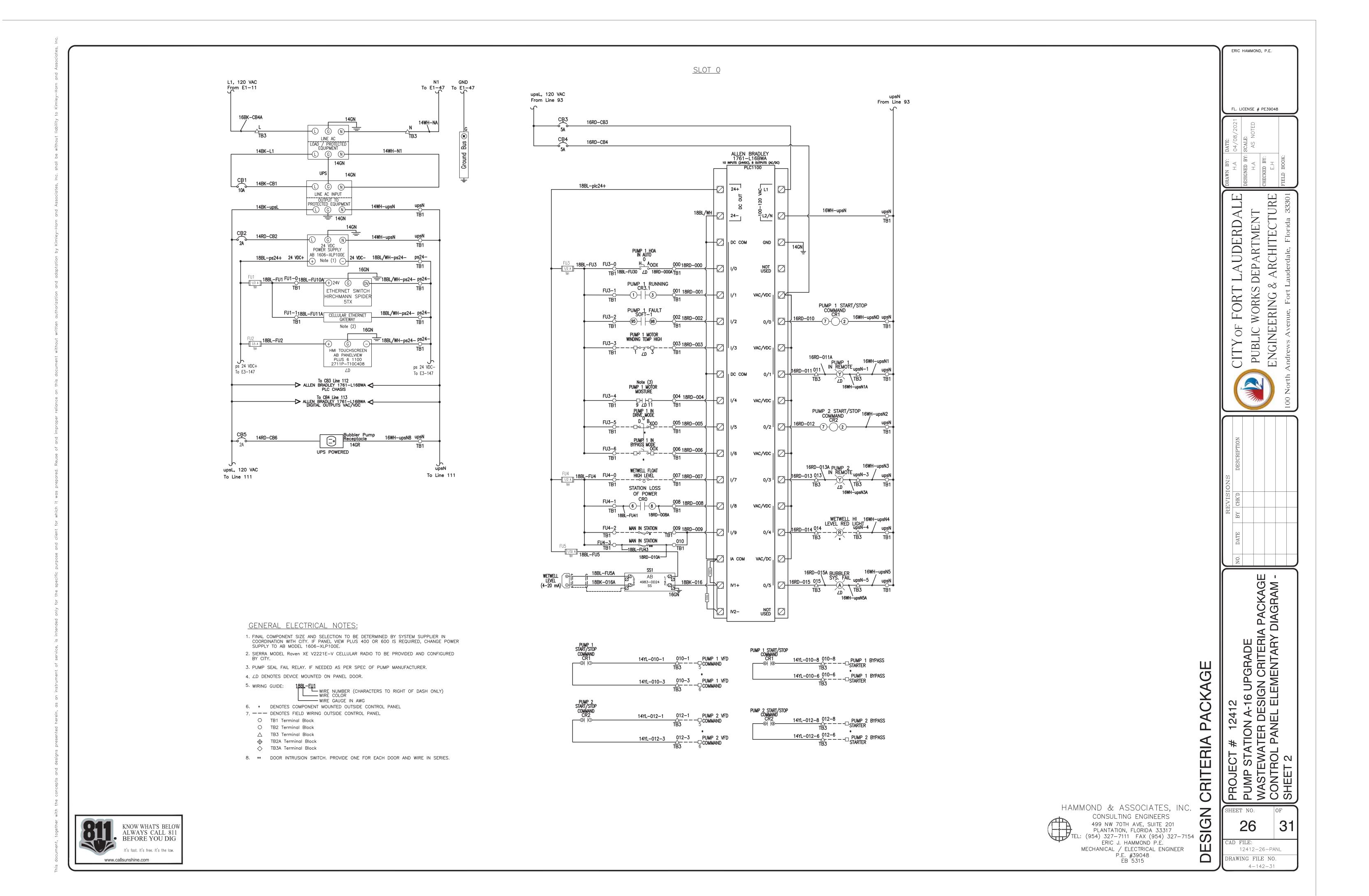
CRITERIA

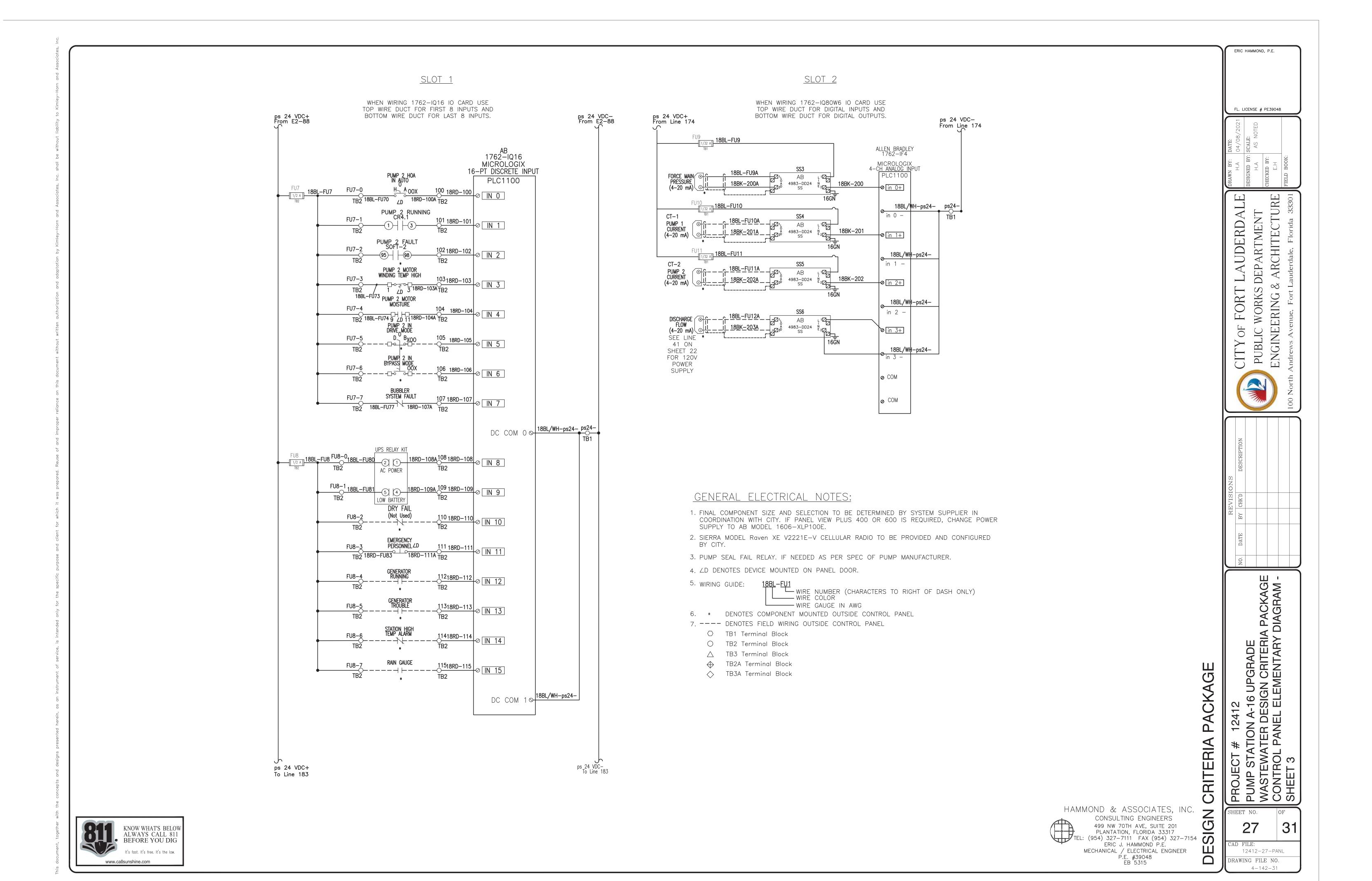
HAMMOND & ASSOCIATES, INC. CONSULTING ENGINEERS 499 NW 70TH AVE, SUITE 201
PLANTATION, FLORIDA 33317
TEL: (954) 327-7111 FAX (954) 327-7154
ERIC J. HAMMOND P.E. MECHANICAL / ELECTRICAL ENGINEER
P.E. #39048
EB 5315

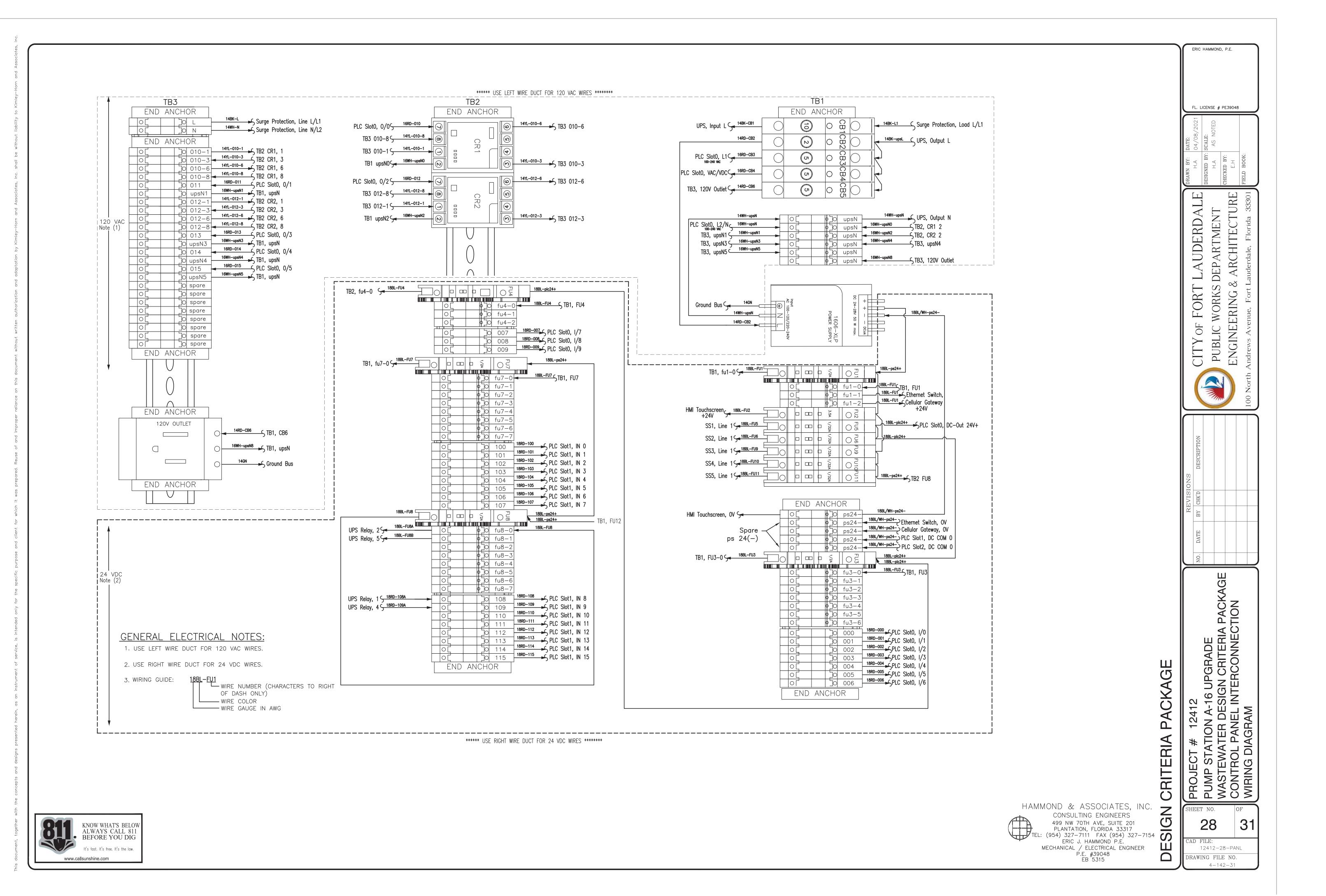
KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG www.callsunshine.com

31









CASE: UDP-V21004 Exhibit 4 Page 29 of 32

