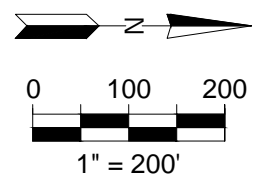




PINE ISLAND ROAD



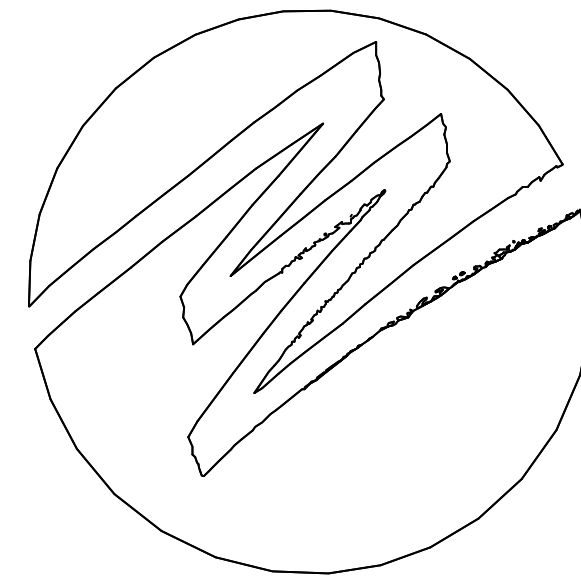
**LEGEND**

----- PROPERTY BOUNDARY

**FIGURE 1 - SITE LOCATION MAP  
FPL SHERIDAN TRANSMISSION SUBSTATION**

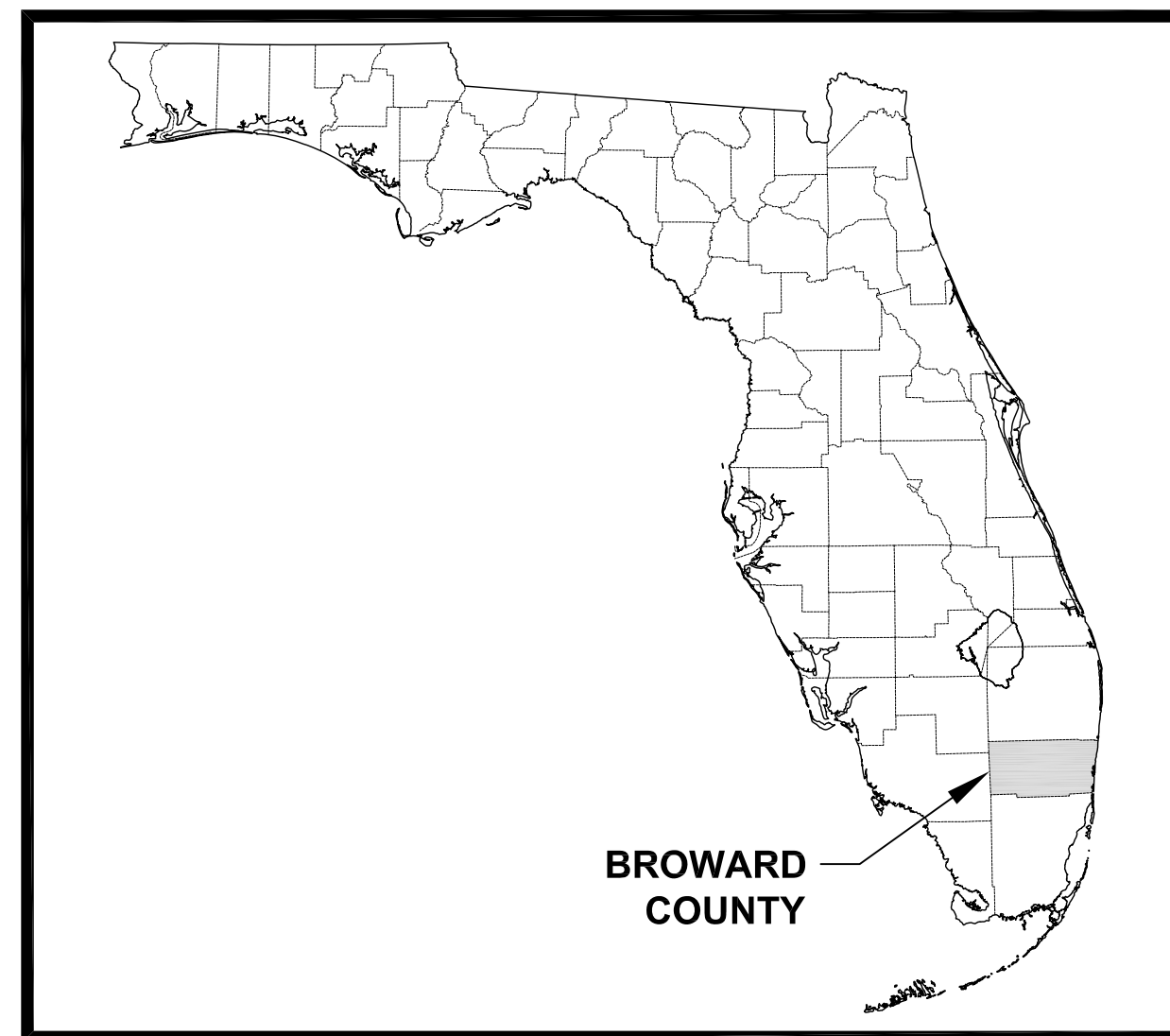


# FLORIDA POWER & LIGHT COMPANY SHERIDAN TRANSMISSION SUBSTATION

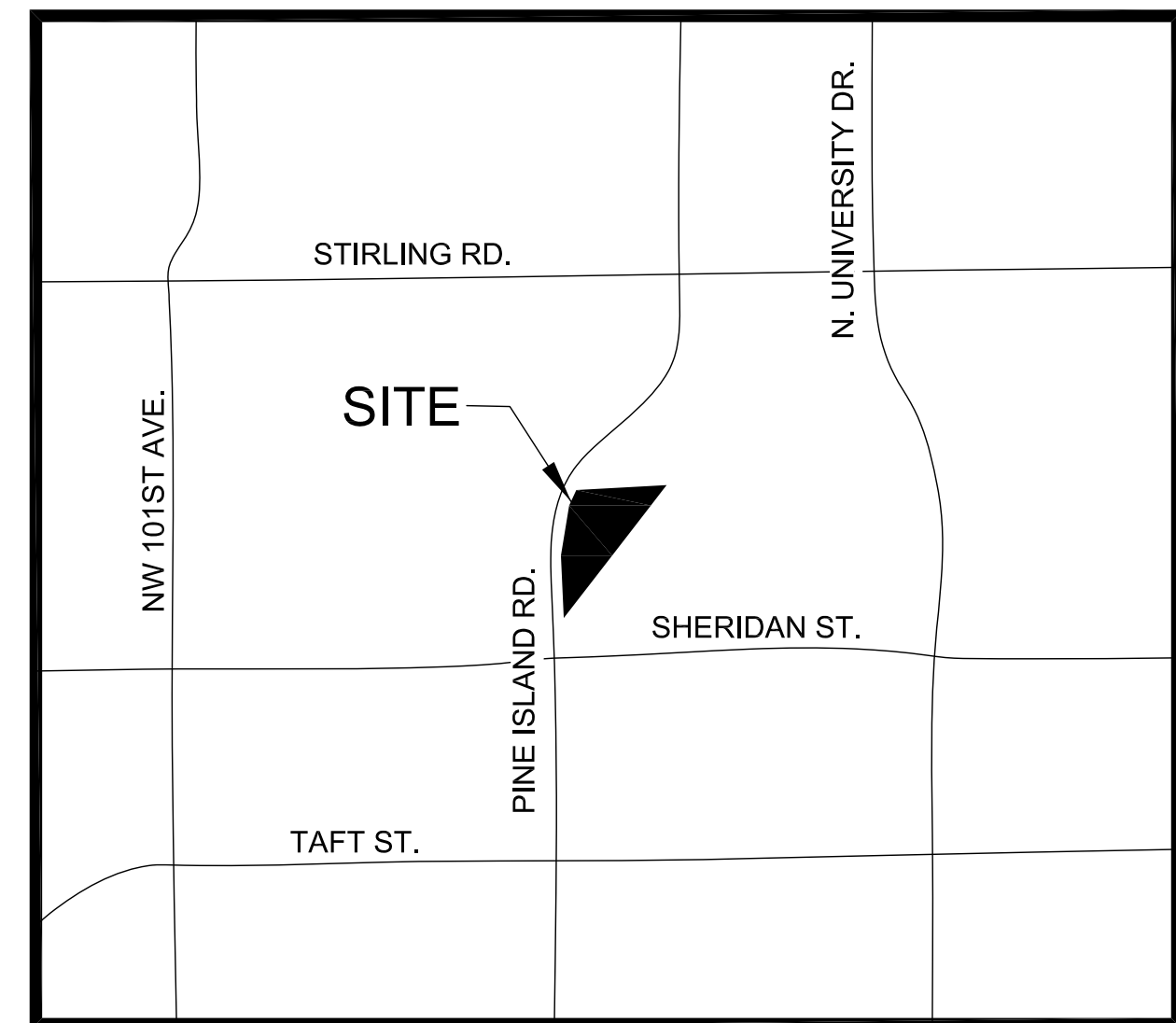


FPL

830 PINE ISLAND ROAD, COOPER CITY, FLORIDA 33024  
BROWARD COUNTY  
SECTION 04, TWP. 51 S., RGE. 41 E.



LOCATION MAP  
(NOT TO SCALE)



VICINITY MAP  
(1" = 2,400')

## PROJECT DATA

SITE ADDRESS: 830 PINE ISLAND ROAD, COOPER CITY, FLORIDA 33024

PARCEL TAX ID: 5141 04 01 0401

ZONING DISTRICT: A-1\* AGRICULTURAL ESTATE

FUTURE LAND USE: E - ESTATE

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 1988. CONVERSION FACTOR TO NGVD 29 = NAVD 88 + 1.601'

FLOOD ZONE: THIS PROPERTY LIES IN FLOOD ZONE "AH" (EL. 5.0' NAVD) PER PANEL ID 12011C0545H, EFFECTIVE DATE AUGUST 18, 2014.

BUILDING CODE: FLORIDA BUILDING CODE, 8TH EDITION (2023)

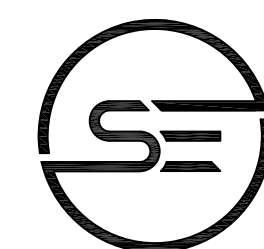
## PROJECT TEAM

APPLICANT: GREGG A. HALL - FLORIDA POWER & LIGHT

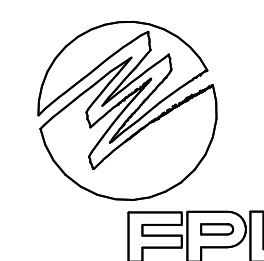
ENGINEER OF RECORD: WILLIAM D. HEIKKINEN, P.E. (FL PE NO. 78529 - SOMI ENGINEERING, LLC)

LANDSCAPE ARCHITECT: ROBERT M. BEAULIEU, PLA, A.S.L.A. (LA 0001490) - FLORIDA POWER & LIGHT

FPL PROJECT MANAGER: ROBERT M. BEAULIEU, PLA, A.S.L.A. - FLORIDA POWER & LIGHT



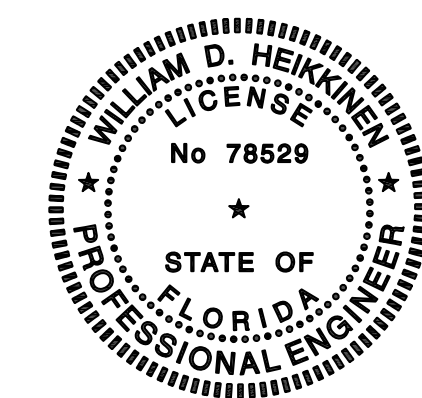
PREPARED BY:  
SOMI ENGINEERING, LLC  
2332 GALIANO STREET 2ND FLOOR  
CORAL GABLES, FL 33134  
PH. (561) 901-9255  
FLORIDA CERTIFICATE OF AUTHORIZATION NO.32647  
SOMI PROJECT NO. 24001



PREPARED ON BEHALF OF:  
FLORIDA POWER AND LIGHT COMPANY  
TRANSMISSION AND SUBSTATION SITING SECTION  
700 UNIVERSE BLVD. (TS4-JW)  
JUNO BEACH, FLORIDA 33408

## INDEX OF DRAWINGS

INDEX NO.	SHEET NO.	DESCRIPTION
E-SHE00	1 OF 1	COVER SHEET
E-SHE01J	1 OF 3	GENERAL NOTES AND SPECIFICATIONS
E-SHE01J	2 OF 3	JURISDICTIONAL SITE PLAN
E-SHE01J	3 OF 3	JURISDICTIONAL SITE PLAN - WETLANDS
E-SHE02	1 OF 8	DEMOLITION PLAN
E-SHE02	2 OF 8	FENCE FILL AND GRADE PLAN
E-SHE02	3 OF 8	FENCE FILL AND GRADE SECTIONS
E-SHE02	4 OF 8	FENCE FILL AND GRADE SECTIONS
E-SHE02	5 OF 8	FENCE FILL AND GRADE DETAILS
E-SHE02	6 OF 8	FENCE FILL AND GRADE DETAILS
E-SHE02	7 OF 8	STORMWATER POLLUTION PREVENTION PLAN
E-SHE02	8 OF 8	STORMWATER POLLUTION PREVENTION PLAN DETAILS
E-SHE04	1 OF 7	LANDSCAPE OVERALL PLAN
E-SHE04	2 OF 7	LANDSCAPE PLAN
E-SHE04	3 OF 7	LANDSCAPE BUFFER PLAN
E-SHE04	4 OF 7	LANDSCAPE ELEVATION VIEW
E-SHE04	5 OF 7	LANDSCAPE ELEVATION VIEW
E-SHE04	6 OF 7	LANDSCAPE ELEVATION VIEW
E-SHE04	7 OF 7	LANDSCAPE ELEVATION VIEW
E-SHE05	1 OF 1	FIRE PROTECTION AND SITE ACCESS PLAN
E-SHE06	1 OF 3	WATER AND SEWER PLAN
E-SHE06	2 OF 3	WATER AND SEWER DETAILS
E-SHE06 (LS-1)	3 OF 3	PUMP STATION SCHEDULE
E-SHE09	1 OF 4	TREE REMOVAL PLAN
E-SHE09	2 OF 4	TREE REMOVAL PLAN
E-SHE09	3 OF 4	TREE REMOVAL PLAN
E-SHE09	4 OF 4	TREE REMOVAL PLAN
E-SHE27	1 OF 1	RELAY VAULT & BATTERY ROOM LAYOUT AND ELEVATION VIEWS
E-246315	1 OF 1	12' PRECAST CONCRETE SECURITY WALL DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILLIAM D. HEIKKINEN, P.E. ON AUGUST 5, 2024.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PERMIT DRAWINGS

DATE: APRIL 22, 2024

SHERIDAN SUBSTATION

DATE: APRIL 2024 | E-SHE00

CADE



I. APPLICABLE CODES:

- A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COOPER CITY PUBLIC WORKS DEPARTMENT, FLORIDA DEPARTMENT OF TRANSPORTATION, FPL D-2 SPECIFICATIONS AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL CODES.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 OR LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
C. ALL EXISTING ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). CONVERSION FACTOR TO N.G.V.D. 29 = N.A.V.D. 88 + 1.601'.
D. CENTERLINE GEOMETRY AND DIMENSIONS SHOWN ON THESE PLANS ARE INTENDED FOR LOCATING HIGH AND LOW POINTS AND ARE NOT TO BE USED FOR SITE LAYOUT. FINAL SITE LAYOUT SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLANS.
E. EXISTING TOPOGRAPHIC AND SURVEY INFORMATION SHOWN ARE BASED ON THE BOUNDARY TOPOGRAPHIC & TREE SURVEY FOR A PORTION OF TRACTS 44-50 PREPARED BY AVIROM & ASSOCIATES, INC., DATED DECEMBER 13, 2023, JOB NO.10857-1.

II. PRECONSTRUCTION RESPONSIBILITIES:

- A. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
B. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND/OR FPL REPRESENTATIVE AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE LANDSCAPE ARCHITECT OF RECORD.
C. THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE-CALL OF FLORIDA" BY CALLING 811 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY EXCAVATION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE FOLLOWING UTILITIES MAY HAVE FACILITIES WITHIN THE PROJECT AREA:
BROWARD COUNTY TRAFFIC ENGINEERING 954-847-2745 (ROBERT BLOUNT)
COMCAST CABLE 786-586-8505 (RICARDO DAVIDSON)
COOPER CITY UTILITIES 954-434-5519 (JOE KALINOWSKI)
CITY OF PEMBROKE PINES 954-518-9095 (DENA MANNING)
FLORIDA POWER & LIGHT BROWARD 386-586-6403 (JOEL BRAY)
FLORIDA POWER & LIGHT BROWARD FIBER 561-313-6891 (WAYNE KRAMER)
AT&T DISTRIBUTION 888-357-1922 (UTILIQUEST LLC)
D. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
E. THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK. THIS INCLUDES BUT NOT LIMITED TO EXISTING STORM SEWER, SANITARY SEWER, WATER MAINS, FORCE MAINS, GAS MAINS, ELECTRICAL, CABLE AND TELEPHONE UTILITIES.
F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.
G. THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) PRIOR TO CONSTRUCTION.
H. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER IMPROVEMENTS CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR ANY OTHER FACILITIES NOT SHOWN. THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE (LINE & GRADE) ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO COMMENCING ANY CONSTRUCTION OPERATION, UNLESS OTHERWISE ALLOWED BY THE OWNER, THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AT NO ADDITIONAL COST TO THE PROJECT.
I. IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD AND/OR FPL REPRESENTATIVE SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.
J. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERTICALLY AND HORIZONTALLY PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO SUCH UTILITIES SHOWN OR NOT SHOWN ON THE PLANS SHALL BE IMMEDIATELY REPAIRED TO THE UTILITY OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE PROJECT. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.

III. TEMPORARY FACILITIES:

- A. TEMPORARY FACILITIES:
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO ADJACENT PROPERTIES AT ALL TIMES, IF APPLICABLE, AT NO ADDITIONAL COST TO THE OWNER
3. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
B. TRAFFIC REGULATION:
1. THE CONTRACTOR SHALL PREPARE ANY APPLICABLE MAINTENANCE OF TRAFFIC (MOT) WITHIN PUBLIC RIGHT-OF-WAYS AND OBTAIN APPROVAL IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), FLORIDA DEPT. OF TRANSPORTATION AND THE CITY OF COOPER CITY PUBLIC WORKS DEPARTMENT. CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAG PERSONS AS NECESSARY FOR THE MOT.
2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF COOPER CITY PUBLIC WORKS DEPARTMENT AND/OR FLORIDA DEPT. OF TRANSPORTATION.

IV. EARTHWORK AND COMPACTION:

- 1. SITE PREPARATION, EARTHWORK AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE SUBSURFACE EXPLORATION REPORT FOR THE FPL SHERIDAN SUBSTATION, DATED FEBRUARY 7, 2004; PREPARED BY ARDAMAN & ASSOCIATES, INC.; ARDAMAN FILE NO. 24-2501. CONTRACTOR SHALL REFER TO THE SITE PREPARATION RECOMMENDATIONS. ADDITIONALLY, CONTRACTOR SHALL FOLLOW THE FLORIDA DEPARTMENT OF TRANSPORTATION, CITY OF COOPER CITY PUBLIC WORKS STANDARDS AND FPL D-2 SPECIFICATION.

V. STORM DRAINAGE:

- A. GENERAL:
1. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
2. WHERE APPLICABLE, ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION, CITY OF COOPER CITY PUBLIC WORKS STANDARDS AND FPL D-2 SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO: EXCAVATION/TRENCHING, PIPE INSTALLATION, AND BACKFILLING/TRENCH COMPACTION.
B. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AS MANUFACTURED BY U.S. PRECAST CORPORATION OR APPROVED EQUAL. STRUCTURES SHALL NOT BE MODIFIED WITHOUT ADVANCED APPROVAL FROM THE ENGINEER OF RECORD AND/OR FPL REPRESENTATIVE.
C. ALL SLOTTED DRAINAGE PIPE SHALL BE SUPPLIED DIRECTLY FROM THE MANUFACTURER. SLOTTING DRAINAGE PIPE ONSITE IS NOT ALLOWED WITHOUT PRIOR FPL APPROVAL.
D. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.
E. ALL RCP PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC.
F. THE CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE STRUCTURES FROM COLLECTING SEDIMENT AND CONSTRUCTION DEBRIS BY PLACING FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE, OR ALTERNATE EQUIVALENT METHOD OF PROTECTION, UNTIL CONSTRUCTION OPERATIONS ARE COMPLETED AND FINAL STABILIZATION HAS BEEN ACHIEVED.
G. THE CONTRACTOR SHALL COMPLY WITH FDEP NPDES REQUIREMENTS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES (CGP). THE CONTRACTOR SHALL FILE A CGP NOTICE OF INTENT (NOI) AND PROVIDE CONFIRMATION OF COVERAGE UNDER THE FDEP NPDES CGP TO FPL. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL BMP'S IN ACCORDANCE WITH THE GENERAL AND SPECIAL CONDITIONS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT AS ACCEPTED, MAINTAINED AND MODIFIED AS NECESSARY BY THE CONTRACTOR.
H. SHOULD DEWATERING BE REQUIRED TO INSTALL PROPOSED INFRASTRUCTURE, IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT FOR AND OBTAIN THE NECESSARY DEWATERING PERMITS BASED ON THEIR MEANS AND METHODS.

VI. PAVING:

- A. GENERAL:
1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
3. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
5. PAVEMENT REPAIRS SHALL BE AS PER APPLICABLE STANDARD DETAILS OF THE CITY OF COOPER CITY PUBLIC WORKS MANUAL.
B. MATERIALS AND INSTALLATION:
1. ALL WORK WITHIN FDOT RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, WHERE APPLICABLE.
2. SUBGRADE FOR ROADWAY AND DRIVEWAYS SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DENSITY (AASHTO T-180), LBR 40.
3. BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS AND DRIVEWAYS AND 6" FOR PARKING AREAS.
4. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180, LBR 100.
C. TESTING:
1. DENSITY TESTS SHALL BE INCLUDED IN CONTRACTOR'S BID PRICE FOR THE PROJECT AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA. DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH FDOT, CITY OF COOPER CITY PUBLIC WORKS DEPARTMENT AND FPL STANDARD REQUIREMENTS AND AS DIRECTED BY THEIR INSPECTORS.

VII. INSPECTION AND TESTING:

- A. THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER OF RECORD AS WELL AS ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
B. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AND/OR FPL REPRESENTATIVE AT LEAST 48 HOURS ADVANCE NOTICE OF, AND THE ENGINEER OF RECORD AND/OR FPL REPRESENTATIVE MUST BE PRESENT TO WITNESS, THE FOLLOWING:
1. CONSTRUCTION OF THE STORMWATER MANAGEMENT SYSTEM INCLUDING BUT NOT LIMITED TO: DRY RETENTION, CATCH BASINS AND RCP DRAINAGE PIPE, EXFILTRATION TRENCH UNDERDRAIN, M.E.S.
2. SUBSTANTIAL COMPLETION
3. FINAL INSPECTION OF PAVING, GRADING AND DRAINAGE
C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL PERMITS ASSOCIATED WITH THE PROJECT REMAIN ACTIVE DURING THE PROJECT. IF NECESSARY, THE CONTRACTOR SHALL REQUEST AN EXTENSION TO PERMITS SET TO EXPIRE.
D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS AND COORDINATE APPLICABLE INSPECTIONS.

VIII. PROJECT CLOSEOUT:

- A. CLEANING UP:
1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS, AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.
4. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.
C. PROJECT RECORD DOCUMENTS:
1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
2. IF APPLICABLE, UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT A MAXIMUM OF 50 FOOT INTERVALS, OR CHANGES IN GRADE GREATER THAN 6".
3. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.

- 4. "AS-BUILT" INFORMATION SHALL BE OVERLAID ON TOP OF THE APPROVED PERMIT DRAWINGS. FOR STORMWATER FACILITIES, THE AS-BUILT SHALL CONSIST OF TOP AND BOTTOM OF DETENTION ELEVATIONS AT ALL CORNERS OR CHANGES IN DIRECTION, STRUCTURE RIM ELEVATIONS, INVERT ELEVATIONS, BOTTOM OF STRUCTURE ELEVATION, BOTTOM OF BAFFLE ELEVATION, PIPE SIZE/MATERIAL.
5. DRAINAGE STRUCTURES/MANHOLES SHALL VACUUMED AND CLEANED PRIOR TO THE SUBSTANTIAL COMPLETED WALK-THROUGH. STORMWATER DRAINAGE PIPING SHALL BE JET CLEANED/VACUUMED AND VIDEO TAPED. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE DRAINAGE PIPES ARE ACCESSIBLE (PRIOR TO INSTALLATION OF BAFFLES) AND IF NECESSARY, PUMP WATER FROM THE PIPES.
6. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

IX. DESIGN STANDARDS:

Table with 2 columns: INDEX NUMBER, DESCRIPTION. Includes entries for SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS, DITCH BOTTOM INLET TYPES C, D, E & H, CROSS DRAIN MITERED END SECTION, FRENCH DRAIN, SKIMMERS FOR FRENCH DRAIN OUTLETS (TYPE II).

CENTRAL BROWARD WATER CONTROL DISTRICT GENERAL NOTES:

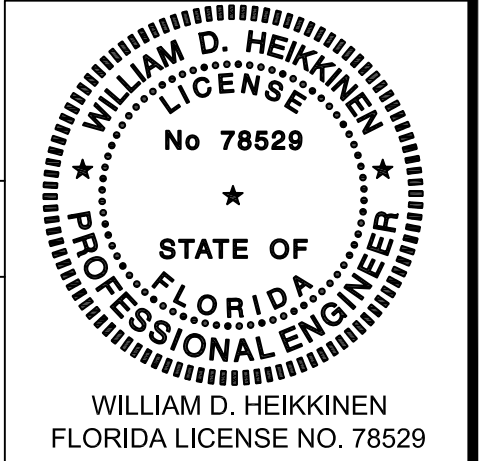
- 1. THE FOLLOWING GENERAL NOTES ARE REQUIRED BY CENTRAL BROWARD WATER CONTROL DISTRICT. THEY ARE NOT MEANT TO BE ALL INCLUSIVE, AND IT IS THE ENGINEER OF RECORDS' RESPONSIBILITY TO ADD ANY NOTES WHICH WILL INFORM THE OWNER AND THE CONTRACTOR OF ANY ADDITIONAL REQUIREMENT OF THE CENTRAL BROWARD WATER CONTROL DISTRICT.
2. ANY REVISIONS TO THESE PLANS MUST BE APPROVED BY THE CENTRAL BROWARD WATER CONTROL DISTRICT PRIOR TO CONSTRUCTION.
3. BONDS: UPON DISTRICT BOARD OF COMMISSIONERS APPROVAL OF PLANS, BUT BEFORE CONSTRUCTION CAN COMMENCE, THE FOLLOWING ITEMS MUST BE COMPLIED WITH:
A. BOND (CASH OR SURETY), IN THE DISTRICT'S FAVOR, MUST BE POSTED IN THE AMOUNT OF 110 PERCENT OF THE DEVELOPER'S ENGINEER OF RECORD'S ESTIMATE OF COST OF CONSTRUCTION OF THE PAVING AND DRAINAGE WORKS. (SUBJECT TO APPROVAL OF THE COST ESTIMATE BY THE DISTRICT SECRETARY/MANAGER OR DISTRICT ENGINEER.)
B. SWALES, LAKE/POND BANKS, SLOPES, CANALS, AND OTHER EXCAVATIONS SHALL BE BONDED SEPARATELY FROM OTHER DRAINAGE IMPROVEMENTS AND WILL BE HELD BY THE DISTRICT UNTIL SUCCESSFUL COMPLETION. THE AMOUNT OF THIS SEPARATE BOND WILL BE DETERMINED BY THE DISTRICT BOARD OF COMMISSIONERS AND BY RECOMMENDATION OF THE DISTRICT SECRETARY/MANAGER.
C. THE DISTRICT'S BOND FORM IS THE ONLY FORM APPROVED FOR USE, AND IT SHALL BE A RECORDED INSTRUMENT. RELEASE OR REDUCTION FROM THE RECORDED INSTRUMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT.
D. BONDS SHALL BE PROVIDED BY THE PRINCIPALS OF DEVELOPMENT ONLY. CONTRACTOR OR SUB-CONTRACTOR BONDS ARE NOT ACCEPTABLE.
E. UPON SUCCESSFUL COMPLETION OF CONSTRUCTION, AND ACCEPTANCE OF "AS-BUILTS/RECORD DRAWINGS" BY THE DISTRICT BOARD OF COMMISSIONERS, A PERCENTAGE OF THE PERFORMANCE BOND AS DETERMINED BY THE DISTRICT MAY BE RELEASED. THE BALANCE OF BOND SHALL REMAIN IN FULL FORCE AND EFFECT FOR AN ADDITIONAL TWELVE (12) MONTHS AFTER FINAL INSPECTION AND APPROVAL, UNLESS SUPPLEMENTED BY NEW BOND FORMS IN THE REQUIRED AMOUNTS AND APPROVED BY
4. INSPECTIONS: WHEN CONSTRUCTION IS IN PROGRESS, THE DISTRICT'S INSPECTOR WILL INSPECT THE INSTALLATION OF DRAINAGE WORKS, ACCORDING TO AN INSPECTION SCHEDULE ESTABLISHED BY THE BOARD OF COMMISSIONERS. INSPECTION MUST BE MADE BY DISTRICT PERSONNEL BEFORE BACKFILLING OF ANY STORM DRAIN STRUCTURES, PIPES, EXFILTRATION TRENCHES, WORK IN DISTRICT CANALS, AND BEFORE PLACEMENT OF ASPHALT OR CONCRETE PAVEMENT. CALL (954) 432-5110 FOR AN INSPECTION APPOINTMENT A MINIMUM OF TWENTY-FOUR (24) HOURS IN ADVANCE. ALL COSTS OF PERIODIC INSPECTIONS OF CONSTRUCTION BY THE DISTRICT SHALL BE BORNE BY THE DEVELOPER.
5. LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 911 OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT THE MINIMUM PERCENTAGE OF CARBONATES OF CALCIUM AND MAGNESIUM SHALL BE SIXTY PERCENT (60 %).
6. ALL MUCK AND DELETERIOUS SOILS SHALL BE REMOVED FROM THE TOP OF BANK TO TOP OF BANK LIMITS OF DRY DETENTION/RETENTION AREAS, AND EXFILTRATION TRENCHES DOWN TO A MINIMUM OF FIVE FEET (5') BELOW THE WATER CONTROL ELEVATION AND REPLACED WITH SUITABLE WELL DRAINING SOILS.
7. ALL NUISANCE VEGETATION SHALL BE REMOVED FROM WITHIN THE PROJECT LIMITS AND WITHIN THE PORTION OF THE CBWCD CANAL THAT FALLS WITHIN THE PROPERTY BOUNDARY. THIS ALSO APPLIES WHEN THE PROPERTY ADJUTS A ROADWAY AND THE DISTRICT CANAL IS LOCATED ON THE OPPOSITE SIDE OF THE ROAD WITH RESPECT TO THE PROPERTY. IN THIS CASE, NUISANCE VEGETATION SHALL BE REMOVED FROM THE CANAL BANK NEAREST THE PROPERTY LINE.
8. EXISTING STORM SEWERS SHALL BE CLEANED FROM THE POINT OF CONNECTION WITH NEW STORM SEWERS OR DRAINAGE STRUCTURES TO THE FIRST EXISTING STRUCTURE UPSTREAM AND DOWNSTREAM OF THE POINT OF CONNECTION. TELEVISION INSPECTION OF THE PIPES SHALL BE REVIEWED AND CERTIFIED THAT THEY ARE CLEAN BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL OF AS-BUILT DRAWINGS TO THE DISTRICT.
9. THE LIMITS OF ANY EASEMENT TO BE DEDICATED TO THE DISTRICT SHALL BE STAKED PRIOR TO INSTALLING TREES TO BE LOCATED WITHIN THREE (3) FEET OF A DISTRICT EASEMENT. THE STAKES SHALL REMAIN IN PLACE UNTIL THE SITE OR LANDSCAPE CONTRACTOR VERIFIES THE INTENDED PLANT LOCATION DOES NOT ENCRGOACH INTO A DISTRICT EASEMENT.
10. THE DISTRICT SECRETARY/MANAGER AND DISTRICT ENGINEER SHALL BE NOTIFIED PRIOR TO THE SUBMITTAL OF AS-BUILT/RECORD DRAWINGS OF ANY ENCRACHMENT WITHIN A DISTRICT EASEMENT NOT EXPRESSLY APPROVED BY THE DISTRICT BOARD OF COMMISSIONERS.
11. AS-BUILT SURVEY AND RECORD DRAWING: "AS-BUILT" PLANS FROM THE SURVEYOR OF RECORD MUST BE CERTIFIED AS "RECORD DRAWINGS" BY THE ENGINEER OF RECORD. THE SURVEYOR'S CERTIFICATION SHALL INCLUDE THE LAST DATE OF FIELD DATA ACQUISITION. THE ENGINEER'S CERTIFICATION SHALL INCLUDE THE CBWCD PERMIT COMPLIANCE STATEMENT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY ON THE APPROVED CONSTRUCTION DRAWINGS AT THE SAME SCALE FOR COMPARISON PURPOSES. ALL REFERENCES TO "PROPOSED" SHALL BE STRUCK THROUGH AND REPLACED WITH THE AS-BUILT CONDITION. AS-BUILT SUBMITTALS SHALL FOLLOW THE SAME FORMAT OF GENERAL REVIEW AS DESCRIBED IN THE CENTRAL BROWARD WATER CONTROL DISTRICT'S STORMWATER MANAGEMENT REGULATIONS, STANDARDS, PROCEDURES, AND DESIGN CRITERIA MANUAL.
12. LAKE/POND, CANAL, AND DRY DETENTION/RETENTION AREA AS-BUILTS WILL BE CROSS-SECTIONED SHOWING THE DESIGNED SECTION AS DASHED, AS-BUILT SECTION AS SOLID, AND HAVE THE TOP OF BANK REFERENCE TO THE LAKE/CANAL MAINTENANCE EASEMENT. SPACING BETWEEN EACH CROSS-SECTION SHALL BE SUCH AS TO PROVIDE ENOUGH DATA TO DETERMINE IF THE LAKE/POND/CANAL/DRY DETENTION/RETENTION AREA WAS CONSTRUCTED AS DESIGNED. THE MAXIMUM SPACING BETWEEN CROSS SECTIONS SHALL BE 100'.
13. THE CONTRACTOR SHALL PROVIDE STABLE AND PERMANENT ELEVATION BENCHMARKS ON THE TOP OF EACH HEADWALL CAP FOR PIPES DISCHARGING INTO DISTRICT CANALS AND DRIVEWAY CULVERTS ALONG DISTRICT CANALS. THE BENCHMARK ELEVATION SHALL BE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND INCLUDE THE DATUM REFERENCE USING NATIONAL GEODETIC SURVEY BENCHMARKS OR FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARKS IN NAVD88 AND ONLY CONVERTED BACK TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). THE OTHER SHALL BE BASED ON NGVD29 AND INCLUDE THE DATUM REFERENCE. EACH HEADWALL SHALL HAVE ONE (1) NAVD88 AND ONE (1) NGVD29 BENCHMARK. CULVERTS CONNECTING DISTRICT CANALS ONLY REQUIRE ONE (1) BENCHMARK PER EACH PAIR OF HEADWALLS.
14. THE SURVEYOR OF RECORD SHALL ANNOTATE THE BENCHMARK ELEVATIONS ON THE AS-BUILT DRAWING IN THE FORMAT PROVIDED BY THE DISTRICT ENGINEER. THE BENCHMARK DATA SHALL ALSO INCLUDE A NORTHING/EASTING COORDINATE AT THE CENTER OF EACH HEADWALL. THE HORIZONTAL DATUM SHALL BE BASED ON STATE PLANE, FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83/90).

FOR THE CONTRACTOR:
CONTRACTOR SHALL DEVELOP THE SITE PER FPL CONSTRUCTION SPECIFICATIONS D-2 FOR CLEARING, EXCAVATING, FILLING, GRADING, PAVING AND DRAINAGE.
IN CASE OF CONFLICT BETWEEN THESE PLANS AND FPL CONSTRUCTION SPECIFICATIONS D-2 THE CONTRACTOR SHALL REQUEST CLARIFICATION FORM THE ENGINEER.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILLIAM D. HEIKKINEN, P.E. ON AUGUST 5, 2024.
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PERMIT DRAWINGS
DATE: APRIL 22, 2024

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2332 GALIANO STREET 2ND FLOOR, CORAL GABLES, FL 33134
P: (661) 901-9255
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32647

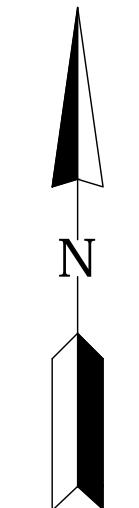
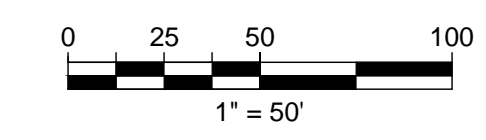
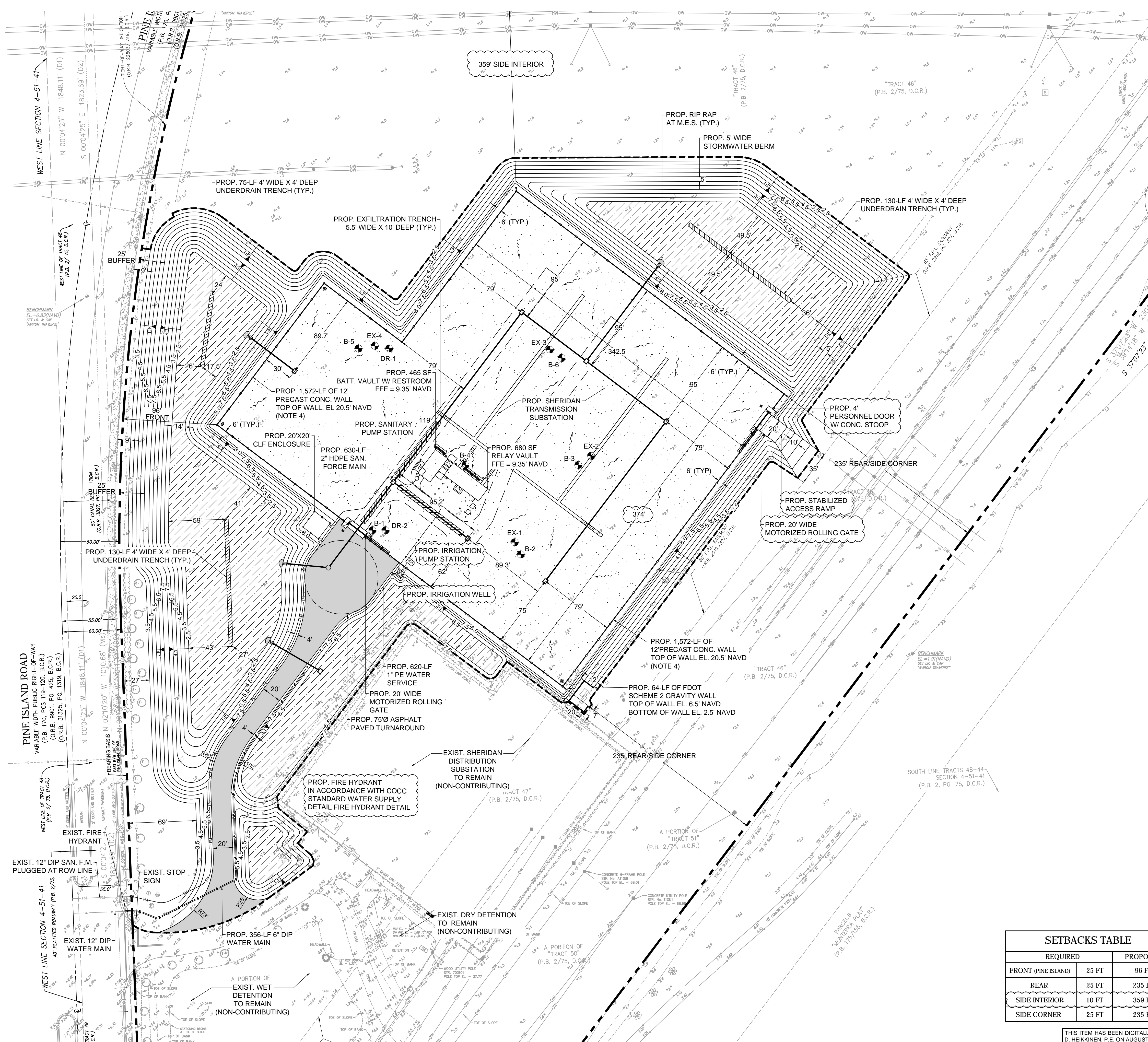
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DATE: APRIL 2024 SCALE: AS NOTED
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DR: N/A ER: WDH
CH: WDH COR: N/A
APPROVED: [Signature]

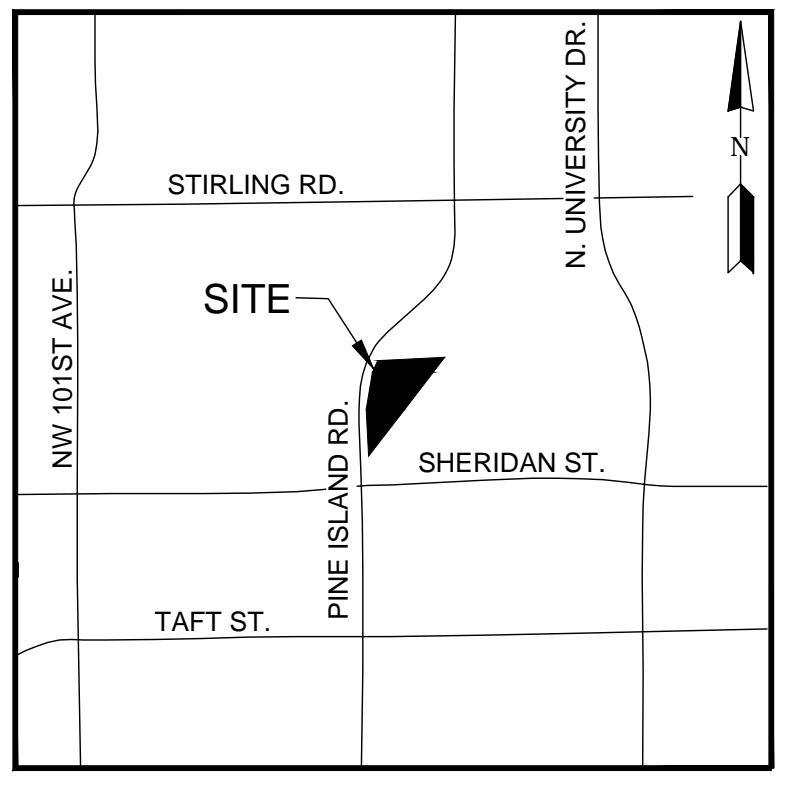
SHERIDAN TRANSMISSION SUBSTATION
830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024
GENERAL NOTES AND SPECIFICATIONS

SOMI NO. 24001 FPL NO.
SHEET 1 OF 3
REV NO.
E-SHE01J





- LEGEND:**
- PROPERTY LINE
  - PROJECT LIMITS
  - EXISTING ELEVATION, FT NAVD
  - PROPOSED CONTOUR, FT-NAVD
  - PROPOSED 12' PRECAST CONCRETE WALL
  - PROPOSED SUBSTATION BENCHMARK
  - PROPOSED SUBSTATION YARD EXPANSION (2\"/>



**LOCATION SKETCH**  
SECTION 04, TOWNSHIP 51 SOUTH, RANGE 41 EAST  
BROWARD COUNTY, FLORIDA  
(1\"/>

- GENERAL NOTES:**
1. APPLICANT AND AGENT: GREGG A. HALL FOR FLORIDA POWER AND LIGHT, OWNER & DEVELOPER, 700 UNIVERSE BLVD., TS4/JW, JUNO BEACH, FLORIDA 33408. PHONE (561) 904-3675.
  2. THIS UNMANNED FACILITY WILL BE USED FOR TRANSFORMATION, REGULATION, AND DISTRIBUTION OF ELECTRICITY.
  3. FPL CERTIFIES THAT THIS FACILITY WILL BE USED ONLY BY EMPLOYEES, AND THE WORK ASSOCIATED WITH HIGH VOLTAGE ELECTRICAL EQUIPMENT CANNOT REASONABLY BE PERFORMED BY HANDICAPPED PERSONS. PURSUANT TO CHAPTER 553.50(1), OF FLORIDA STATUTES, THIS FACILITY IS NOT SUBJECT TO THE ACCESSIBILITY REQUIREMENTS OF THE ADA.
  4. SECURITY PRECAST CONCRETE WALL SHALL BE 12'-0\"/>

**LEGAL DESCRIPTION** (PER BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY AVIROM & ASSOC. INC.)

(D1)  
A PORTION OF TRACTS 44, 45, 46, 47, 48, 49 AND 50 OF THE EVERGLADES SUGAR AND LAND CO. SUBDIVISION OF SECTION 4, TOWNSHIP 51 SOUTH, RANGE 41 EAST AS RECORDED IN PLAT BOOK 2, PAGE 75, OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
  
BEGINNING AT THE SOUTHWEST CORNER OF THE N 1/2 OF THE N 1/2 OF TRACT 48, OF SAID SECTION 4, THENCE N 89°53'30\"/>

GRANTOR ALSO HEREBY CONVEYS TO GRANTEE AN EASEMENT FOR INGRESS AND EGRESS OVER THE WEST 20 FEET OF SAID TRACT 49 LYING SOUTH OF THE ABOVE PROPERTY.

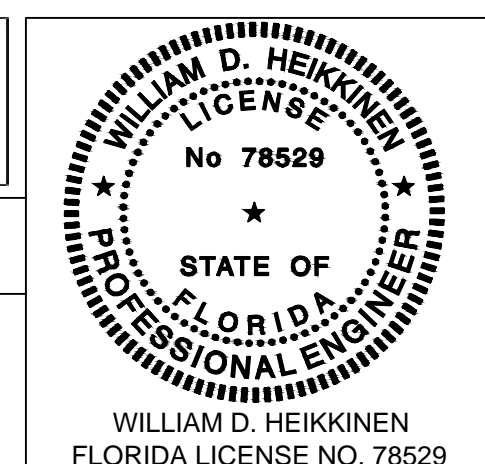
LESS AND EXCEPT THE FOLLOWING LANDS DEDICATED FOR RIGHT-OF-WAY:

(D2)  
A PORTION OF TRACTS 48 AND 49 OF EVERGLADES SUGAR AND LAND COMPANY SUBDIVISION OF SECTION 4, TOWNSHIP 51 SOUTH, RANGE 41 EAST, AS RECORDED IN PLAT BOOK 2, PAGE 75, OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
  
COMMENCING AT THE SOUTHWEST CORNER OF THE NORTH 1/2 OF THE NORTH 1/2 OF SAID TRACT 48, SECTION 4, THENCE NORTH 89°53'30\"/>

SETBACKS TABLE		
	REQUIRED	PROPOSED
FRONT (PINE ISLAND)	25 FT	96 FT
REAR	25 FT	235 FT
SIDE INTERIOR	10 FT	359 FT
SIDE CORNER	25 FT	235 FT

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**PERMIT DRAWINGS**  
DATE: APRIL 22, 2024



SOMI ENGINEERING, LLC  
2332 GALIANO STREET 2ND FLOOR, CORAL GABLES, FL 33134  
P: (561) 901-9255  
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32647

ER	NO	DATE	REVISION
	2	8/05/2024	REVISED PER COCC DRC COMMENTS SP 2-1-24, CBWCD 240-10 COMMENTS, ADDED 16' NE EXPANSION AND RAMP
	1	6/25/2024	REVISED PER COCC DRC COMMENTS SP 2-1-24

DATE: APRIL 2024    SCALE: AS NOTED

DR: N/A    ER: WDH  
CH: WDH    COR: N/A  
APPROVED: \_\_\_\_\_

**SHERIDAN TRANSMISSION SUBSTATION**  
830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024

**JURISDICTIONAL SITE PLAN**

SOMI NO. 24001    FPL NO. \_\_\_\_\_

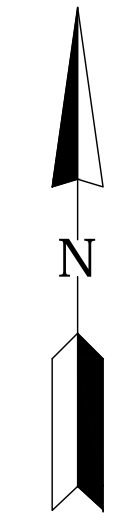
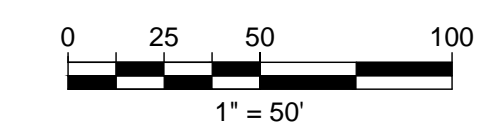
SHEET 2 OF 3  
**E-SHE01J**

REV NO. \_\_\_\_\_

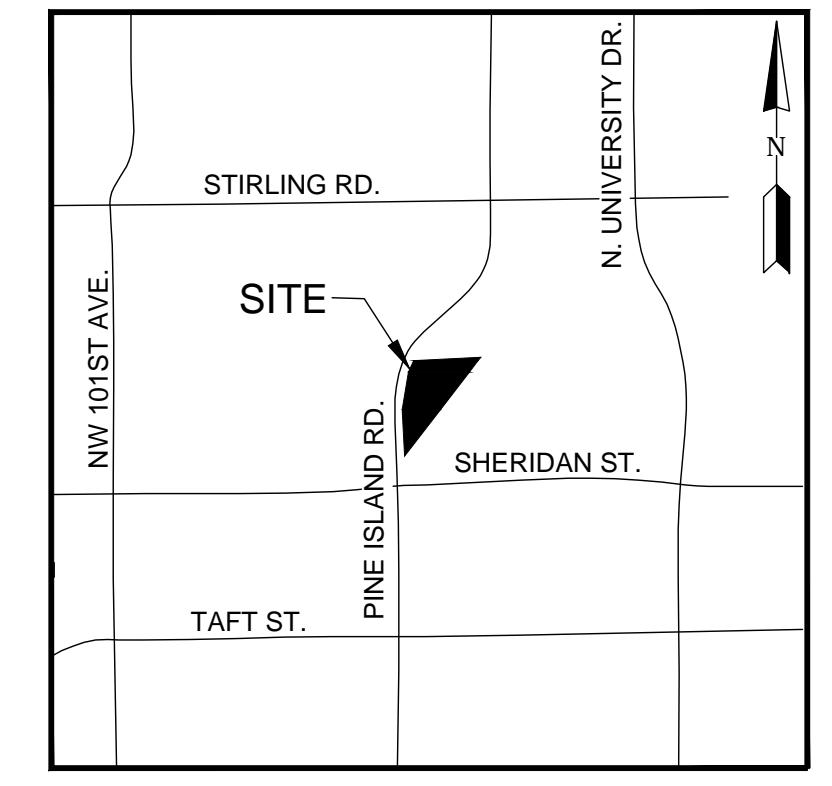








- LEGEND:**
- PROPERTY LINE
  - PROJECT LIMITS (DEVELOPMENT)
  - PROJECT LIMITS (CLEARING)
  - EXISTING ELEVATION, FT NAVD
  - EXISTING VEGETATION TO BE REMOVED
  - LOCATION OF GEOTECHNICAL BORING



**LOCATION SKETCH**  
SECTION 04, TOWNSHIP 51 SOUTH, RANGE 41 EAST  
BROWARD COUNTY, FLORIDA  
(1" = 3,520')

**DEMOLITION NOTES:**

1. EXISTING CONDITIONS PRESENTED ARE BASED ON BEST AVAILABLE INFORMATION OBTAINED BY EXISTING UTILITY OWNER'S (SUNSHINE 811) AND THE BOUNDARY TOPOGRAPHIC AND TREE SURVEY FOR A PORTION OF TRACTS 44-50 PREPARED BY AVIROM & ASSOCIATES, INC. SURVEYING AND MAPPING, 50 SW 2ND AVE, SUITE 102, BOCA RATON, FL 33432; JOB NO. 10857-1 DATED DECEMBER 13, 2023.
2. EXISTING ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). CONVERSION FACTOR TO N.G.V.D. 29 = N.A.V.D. 88 + 1.601'.
3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER AND/OR FPL REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO PROTECT ALL EXISTING SIGNS AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR SHALL COORDINATE WITH ENGINEER AND/OR FPL REPRESENTATIVE OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
5. ASPHALT AND OR CONCRETE ALONG THE DEMOLITION BOUNDARY SHALL BE SAWCUT PRIOR TO COMMENCEMENT OF DEMOLITION WORK. THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES SUCH THAT DEMOLITION DOES NOT EXTEND BEYOND THE SPECIFIED BOUNDARY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF DEMOLITION DEBRIS ON A REGULAR BASIS TO PREVENT LARGE STOCKPILES FROM FORMING AT THE SITE.
7. CONTRACTOR SHALL ENSURE DEMOLITION DEBRIS IS CLEANED FROM ROADS AND PARKING AREAS THAT MUST REMAIN IN SERVICE. MECHANICAL BRUSHING SHALL BE USED TO MAINTAIN ROADS AND PARKING AREAS.
8. SHOULD UNSUITABLE MATERIAL BE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL INFORM THE ENGINEER AND/OR FPL REPRESENTATIVE PRIOR TO REMOVING MATERIAL.
9. TEMPORARY SIGNS SHALL BE INSTALLED TO SAFELY DIRECT TRAFFIC AROUND THE PROJECT AREA. CONTRACTOR SHALL SUBMIT TO THE ENGINEER AND/OR FPL REPRESENTATIVE A TRAFFIC ROUTING PLAN IF NECESSARY FOR REVIEW AND APPROVAL. THE PLAN MUST BE REVIEWED AND REVISED, IF NECESSARY, AS THE PROJECT PROGRESSES.
10. CONTRACTOR SHALL REFER TO THE SUBSURFACE EXPLORATION REPORT FOR THE FPL SHERIDAN SUBSTATION, DATED FEBRUARY 7, 2004; PREPARED BY ARDAMAN & ASSOCIATES, INC.; ARDAMAN FILE NO. 24-2501 FOR SITE PREPARATION RECOMMENDATIONS.
11. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION ACTIVITIES. REFER TO DRAWING E-SHE02 (SHEET 7 OF 8) STORMWATER POLLUTION PREVENTION PLAN.
12. CONTRACTOR SHALL REFER TO E-SHE09 TREE REMOVAL PLAN REGARDING REMOVAL OF EXISTING TREES AND HEDGES.
13. ALL WORK DEMOLITION WORK PROPOSED IN THE PINE ISLAND ROAD RIGHT-OF-WAY SHALL BE COORDINATED WITH THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION. CONTRACTOR SHALL OBTAIN AN MOT IF NECESSARY.
14. ACCESS TO THE EXISTING ACTIVE SUBSTATION DISTRIBUTION YARD SHALL BE MAINTAINED AT ALL TIMES.

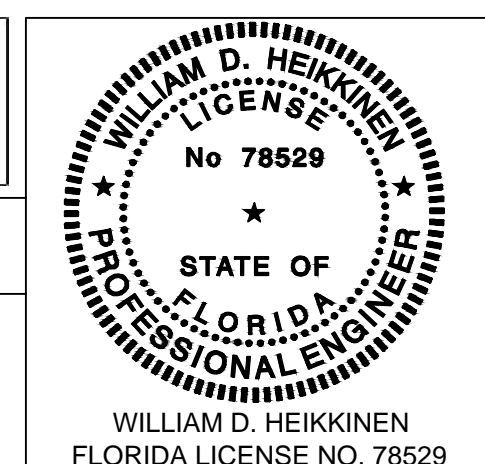
**DEMOLITION CALL-OUT LEGEND:**

- ① EXISTING VEGETATION AND UNSUITABLE SOIL TO BE REMOVED (±10.80 ACRES) (NOTE 10)
- ② EXISTING 4' FIELD FENCE (WOOD POST W/ WIRE) TO BE REMOVED (±615 LF)
- ③ EXIST. RIP RAP BAG RETAINING WALL TO BE REMOVED (1 EA)
- ④ EXIST. METAL TUBE DOUBLE SWING GATE TO BE REMOVED (1 EA)

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**PERMIT DRAWINGS**  
DATE: APRIL 22, 2024

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**SE**  
SOMI ENGINEERING, LLC  
2332 GALIANO STREET 2ND FLOOR, CORAL GABLES, FL 33134  
P: (561) 901-9255  
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32647

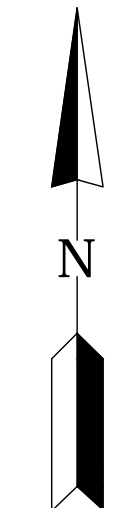
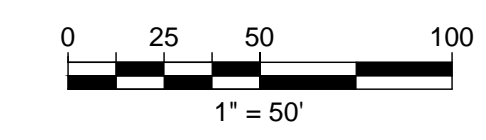
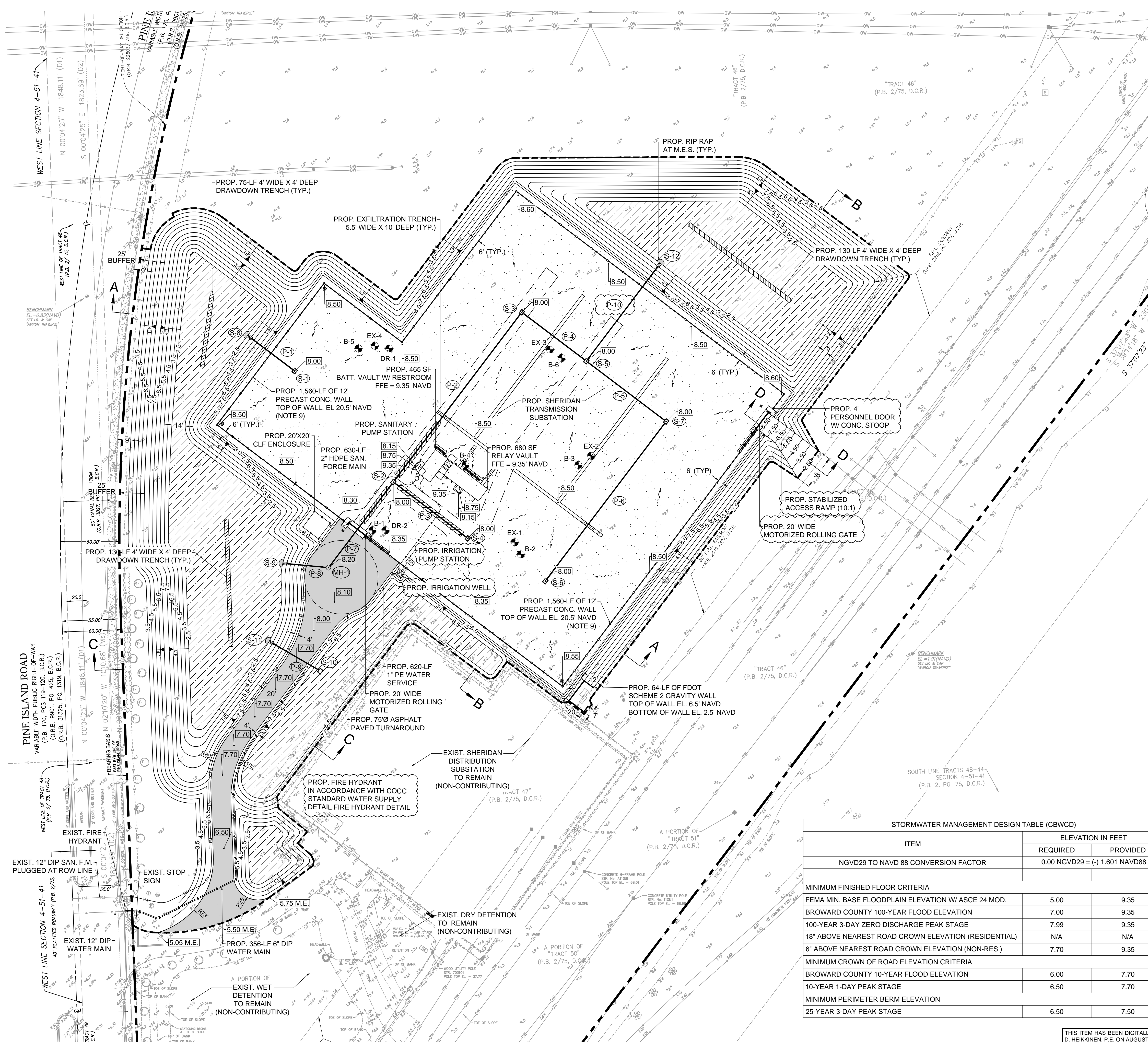
ER	NO	DATE	REVISION	BY	CH	COR	APP
	1	8/05/2024	ADDED 16' NE EXPANSION AND RAMP (UPDATED PROJECT DEVELOPMENT LIMITS)				

DATE: APRIL 2024	SCALE: AS NOTED
<b>POWER DELIVERY</b>	
DR: N/A	ER: WDH
CH: WDH	COR: N/A
APPROVED:	

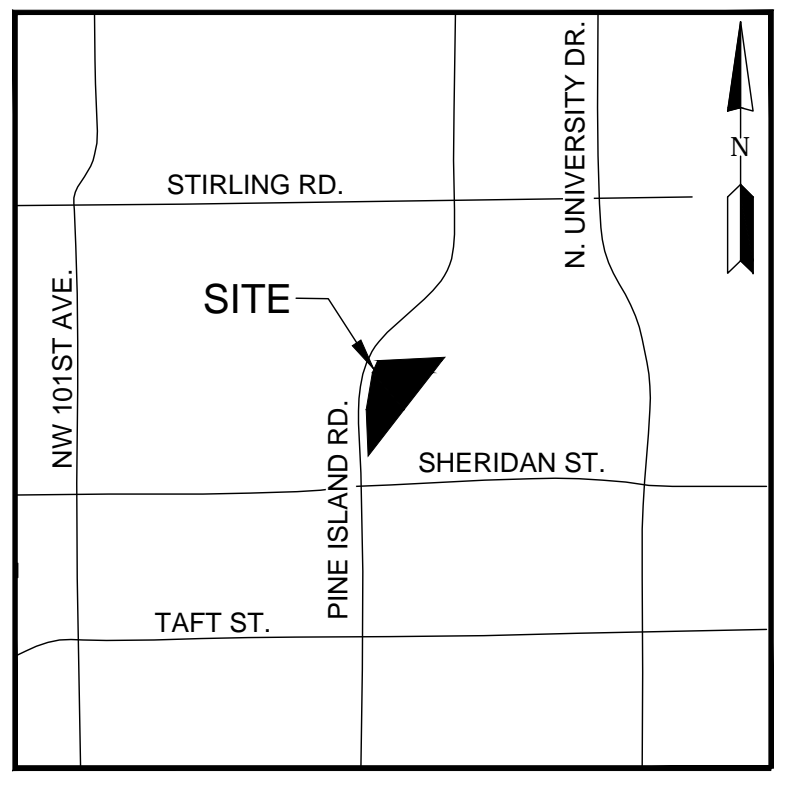
**SHERIDAN TRANSMISSION SUBSTATION**  
830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024  
**DEMOLITION PLAN**

SOMI NO. 24001  
FPL NO.  
SHEET 1 OF 8  
**E-SHE02**  
REV NO.

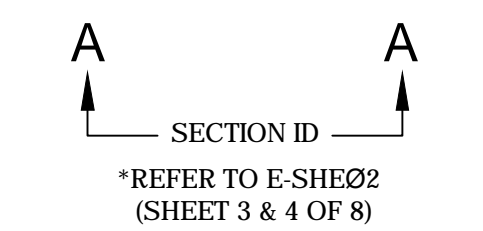




- LEGEND:**
- PROPERTY LINE
  - PROJECT LIMITS
  - EXISTING ELEVATION, FT NAVD
  - PROPOSED CONTOUR, FT-NAVD
  - PROPOSED 12' PRECAST CONCRETE WALL
  - PROPOSED SUBSTATION BENCHMARK
  - PROPOSED SUBSTATION YARD EXPANSION (2\"/>



**LOCATION SKETCH**  
SECTION 04, TOWNSHIP 51 SOUTH, RANGE 41 EAST  
BROWARD COUNTY, FLORIDA  
(1\"/>



**GENERAL NOTES:**

1. ELEVATIONS REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), UNLESS OTHERWISE NOTED.
2. [XXX] DENOTES LOCATION AND ELEVATION OF PROPOSED GRADE IN NAVD 88. (N.G.V.D. 29 = N.A.V.D. 88 + 1.601')
3. ELEVATIONS WHICH INDICATE TOP OF FILL OR LIMESTONE WHICH ARE TO BE COVERED WITH LOOSE ROCK OR ASPHALTIC CONCRETE DO NOT INCLUDE 0.17' (2") FOR LOOSE ROCK OR 0.13' (1.5") FOR ASPHALTIC CONCRETE AND ARE SHOWN AS [XXX]
4. ELEVATIONS WHICH INDICATE TOP OF FILL OR CUT THAT ARE TO BE SODDED ARE THE PROPOSED ELEVATIONS OF THE TOP OF SOD AND ARE SHOWN [XX]
5. INDICATES THE DIRECTION OF FLOW OF STORM WATER RUNOFF.
6. ALL CLEARING, EXCAVATING, FILLING, GRADING, PAVING AND DRAINAGE SHALL BE PERFORMED IN CONFORMANCE WITH FPL D-2 SPECIFICATION.
7. GRASSING SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE APPROVED LANDSCAPE PLAN. ALL DISTURBED AREAS NOT SHOWN TO BE PLANTED, MULCHED, ETC. SHALL BE SODDED.
8. FPL SHALL ASSUME RESPONSIBILITY FOR MAINTENANCE OF THE STORMWATER FACILITIES WITHIN FPL PROPERTY UPON COMPLETION AND ACCEPTANCE BY THE COMPANY REPRESENTATIVE.
9. SECURITY PRECAST CONCRETE WALL SHALL BE 12'-0" ABOVE GRADE WITH BARBED WIRE. REFER TO E-246315.
10. STORMWATER MANAGEMENT DESIGN DATA:
 

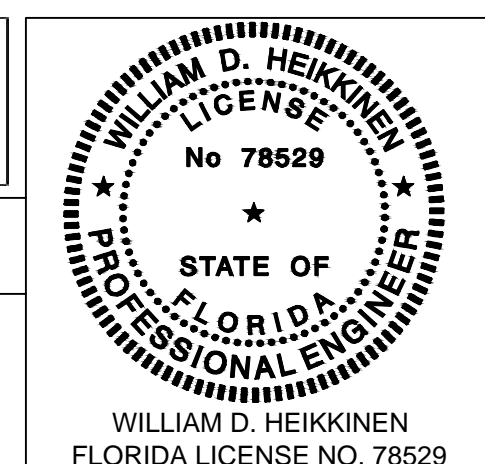
TOTAL PROPERTY AREA	= 29.75 ACRES
EXISTING SUBSTATION AND DRY/WET DETENTION	= 3.85 ACRES
NON-CONTRIBUTING AREA FOR STORMWATER	= 17.58 ACRES
PROJECT AREA FOR STORMWATER	= 8.32 ACRES
IMPERVIOUS AREA (PROP. SUBSTATION, ASPHALT ACCESS DRIVE)	= 3.95 ACRES
PERVIOUS AREA (GREEN SPACE, DRY RETENTION)	= 4.37 ACRES
11. SOD SHALL BE PLACED SUCH THAT THE TOP OF THE GRASS IS AT THE SAME ELEVATION AS THE TOP OF ADJACENT COMPACTED FILL.
12. THE STORMWATER MANAGEMENT DESIGN IS BASED ON FDEP, SFWMD, AND THE CENTRAL BROWARD WATER CONTROL DISTRICT.
13. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING WORK.
14. MAINTENANCE OF TRAFFIC SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS, BROWARD COUNTY AND MUTCD.
15. FIELD TESTING
  - A. PAVING SUBGRADE TO BE TESTED FOR DENSITY EVERY 10,000 SQ. FT. OR PORTION THEREOF AND ONE LBR SHALL BE TAKEN IN AREA OF ASPHALT.
  - B. PAVING BASE AND YARD BASE TO BE TESTED FOR DENSITY EVERY 10,000 SQ. FT. OR PORTION THEREOF. PIT CERTIFICATION (FDOT) WILL BE SATISFACTORY FOR EVIDENCE OF LBR.
16. APPLICANT AND AGENT: GREGG A. HALL FOR FLORIDA POWER AND LIGHT, OWNER & DEVELOPER, 700 UNIVERSE BLVD., TS/JW, JUNO BEACH, FLORIDA 33408. PHONE (561) 904-3675.
17. THIS UNMANNED FACILITY WILL BE USED FOR TRANSFORMATION, REGULATION, AND DISTRIBUTION OF ELECTRICITY.
18. FPL CERTIFIES THAT THIS FACILITY WILL BE USED ONLY BY EMPLOYEES, AND THE WORK ASSOCIATED WITH HIGH VOLTAGE ELECTRICAL EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS, PURSUANT TO CHAPTER 553.504(1), OF FLORIDA STATUTES. THIS FACILITY IS NOT SUBJECT TO THE ACCESSIBILITY REQUIREMENTS OF THE ADA.
19. THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY AND IS EXEMPT FROM THE FLORIDA ENERGY REVIEW CODE.
20. THIS FACILITY WILL GENERATE NO SOLID WASTE.
21. THIS IS AN UNMANNED RESTRICTED ACCESS FACILITY. NO FPL EMPLOYEES REPORT TO THIS LOCATION AND MAINTENANCE CREWS WILL PARK INSIDE THE FENCED AREA. THEREFORE, NO PARKING SPACES WILL BE PROVIDED.
22. THIS FACILITY WILL CREATE NO ADDITIONAL TRIP GENERATORS. FPL TWO-MAN MAINTENANCE CREWS WILL AVERAGE TWO TRIPS PER MONTH TO THIS FACILITY.
23. THIS PROPERTY LIES IN FLOOD ZONE "AH" (EL. 5.0' NAVD) ACCORDING TO FEMA FLOOD MAP (FIRM) PANEL NUMBER 12011C0545H, EFFECTIVE DATE: AUGUST 18, 2014.

STORMWATER MANAGEMENT DESIGN TABLE (CBWCD)		
ITEM	ELEVATION IN FEET	
	REQUIRED	PROVIDED
NGVD29 TO NAVD 88 CONVERSION FACTOR	0.00 NGVD29 = (-) 1.601 NAVD88	
<b>MINIMUM FINISHED FLOOR CRITERIA</b>		
FEMA MIN. BASE FLOODPLAIN ELEVATION W/ ASCE 24 MOD.	5.00	9.35
BROWARD COUNTY 100-YEAR FLOOD ELEVATION	7.00	9.35
100-YEAR 3-DAY ZERO DISCHARGE PEAK STAGE	7.99	9.35
18" ABOVE NEAREST ROAD CROWN ELEVATION (RESIDENTIAL)	N/A	N/A
6" ABOVE NEAREST ROAD CROWN ELEVATION (NON-RES)	7.70	9.35
<b>MINIMUM CROWN OF ROAD ELEVATION CRITERIA</b>		
BROWARD COUNTY 10-YEAR FLOOD ELEVATION	6.00	7.70
10-YEAR 1-DAY PEAK STAGE	6.50	7.70
<b>MINIMUM PERIMETER BERM ELEVATION</b>		
25-YEAR 3-DAY PEAK STAGE	6.50	7.50

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SOMI ENGINEERING, LLC  
2332 GALIANO STREET 2ND FLOOR, CORAL GABLES, FL 33134  
P: (561) 991-9255  
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32647

ER	NO	DATE	REVISION
	2	8/05/2024	REVISED PER COCC DRC COMMENTS SP 2-1-24, CBWCD 240-10 COMMENTS, ADDED 16' NE EXPANSION AND RAMP
	1	6/25/2024	REVISED PER COCC DRC COMMENTS SP 2-1-24

DATE: APRIL 2024 SCALE: AS NOTED

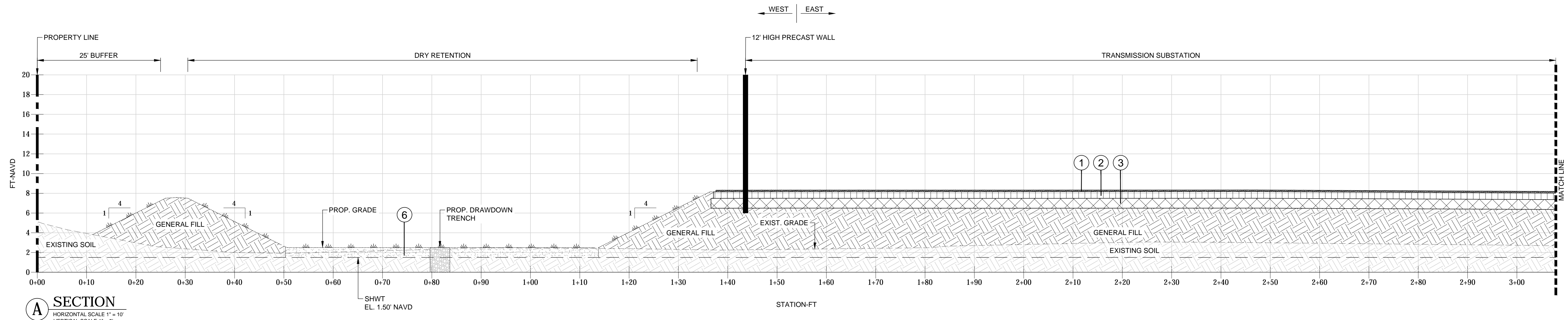
DR: N/A ER: WDH  
CH: WDH COR: N/A  
APPROVED:

**SHERIDAN TRANSMISSION SUBSTATION**  
830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024

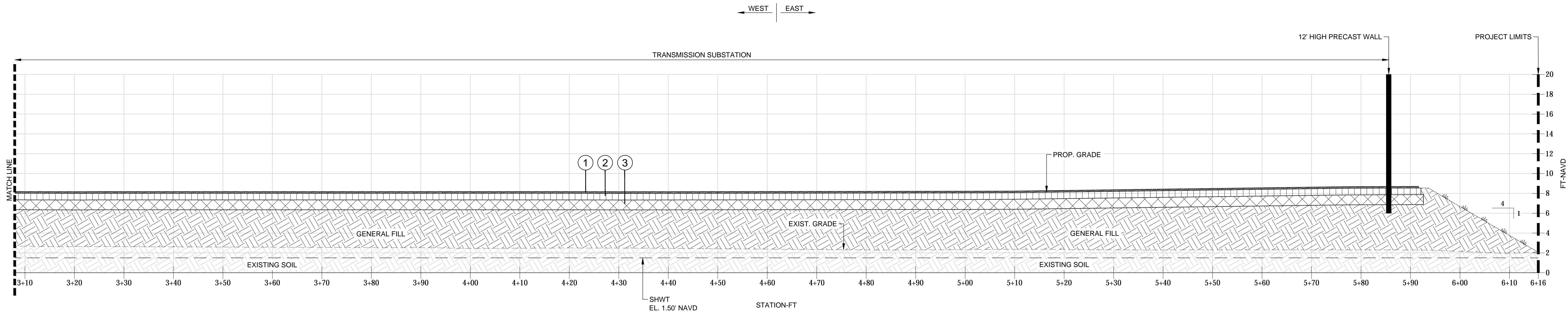
**FENCE FILL AND GRADE PLAN**

SOMI NO. 24001 FPL NO.  
SHEET 2 OF 8  
**E-SHE02**  
REV NO.





**A SECTION**  
 HORIZONTAL SCALE 1" = 10'  
 VERTICAL SCALE 1" = 5'



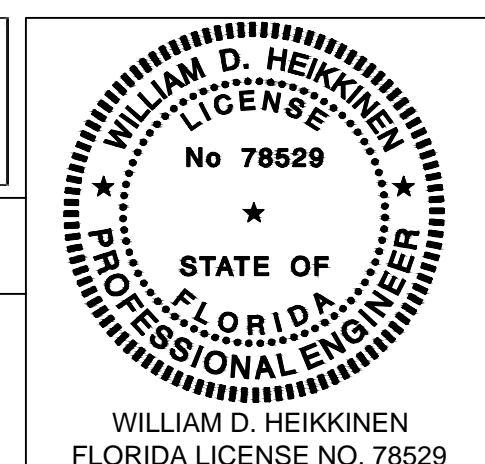
**LEGEND**

- ① 2" #5 LOOSE ROCK COVER (DUST FREE)
- ② 6" LIMEROCK BASE COMPACTED TO 98%, LBR 100 (SUB. YARD)  
8" LIMEROCK BASE COMPACTED TO 98%, LBR 100 (EQUIP. AISLE)
- ③ 12" SUB-BASE COMPACTED TO 98%, LBR 40 MIN.
- ④ 2" SP 9.5 OR 12.5 STRUCTURAL COURSE ASPHALT
- ⑤ 10" LIMEROCK BASE COMPACTED TO 98%, LBR 100
- ⑥ A-3 DRAINAGE SAND

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ER	NO	DATE	REVISION	BY	CH	COR	APP

DATE: APRIL 2024    SCALE: AS NOTED

**POWER DELIVERY**

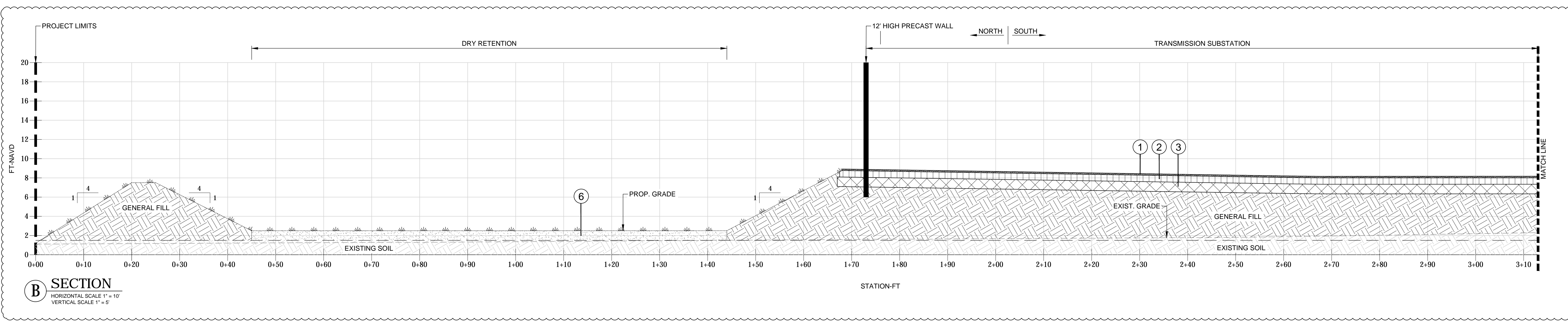
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CH: WDH	COR: N/A
APPROVED:	

**SHERIDAN TRANSMISSION SUBSTATION**  
 830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024  
**FENCE FILL AND GRADE SECTIONS**

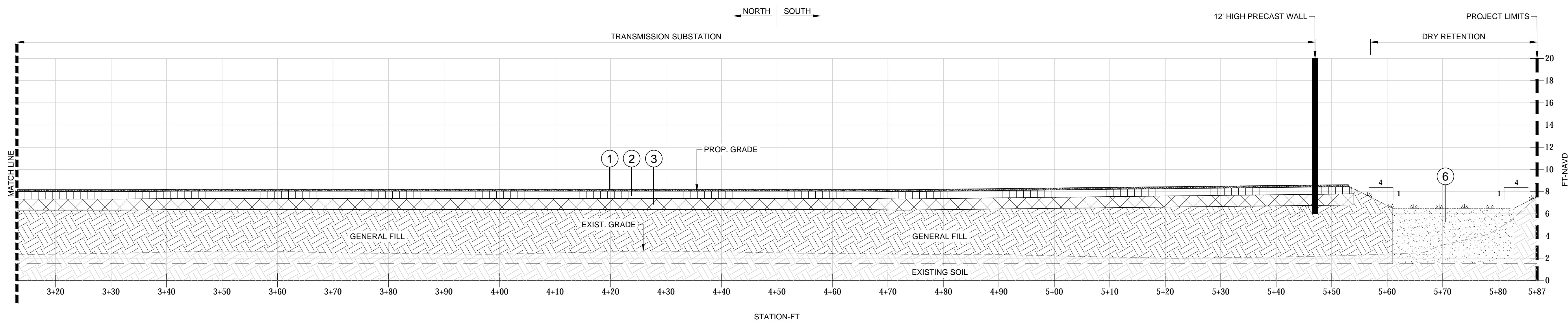
SOMI NO. 24001    FPL NO.    REV NO.

SHEET 3 OF 8  
**E-SHE02**

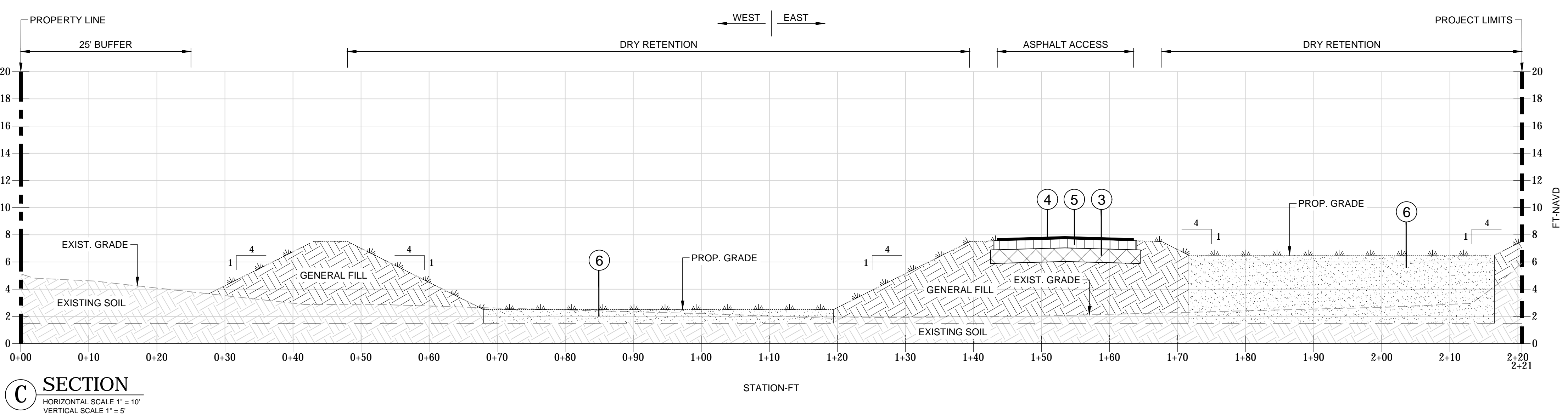




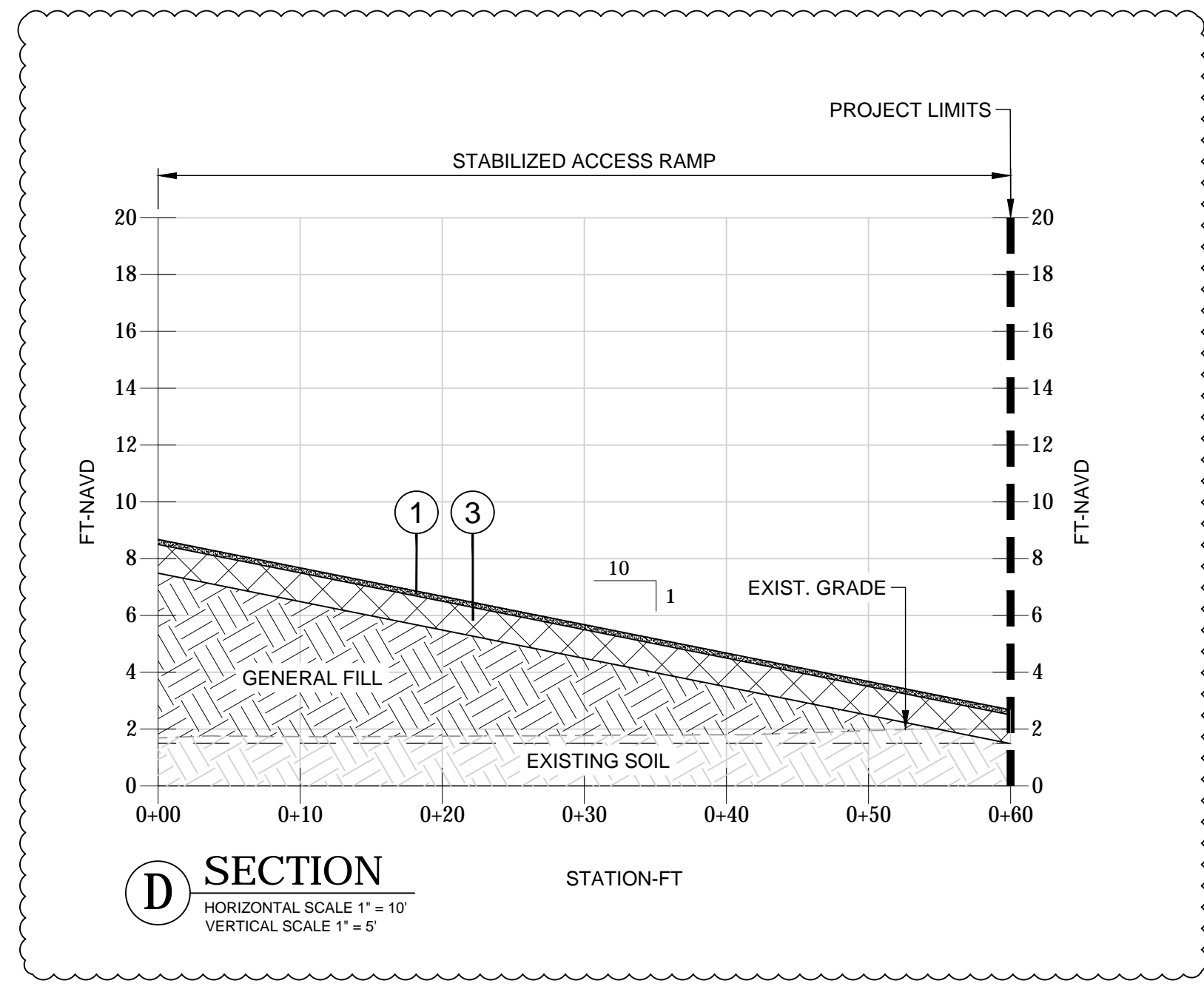
**B** SECTION  
 HORIZONTAL SCALE 1" = 10'  
 VERTICAL SCALE 1" = 5'



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  - ③ 8" LIMEROCK BASE COMPACTED TO 98%, LBR 100 (EQUIP. AISLE)
  - ④ 2" SP 9.5 OR 12.5 STRUCTURAL COURSE ASPHALT
  - ⑤ 10" LIMEROCK BASE COMPACTED TO 98%, LBR 100
  - ⑥ A-3 DRAINAGE SAND



**C** SECTION  
 HORIZONTAL SCALE 1" = 10'  
 VERTICAL SCALE 1" = 5'



**D** SECTION  
 HORIZONTAL SCALE 1" = 10'  
 VERTICAL SCALE 1" = 5'

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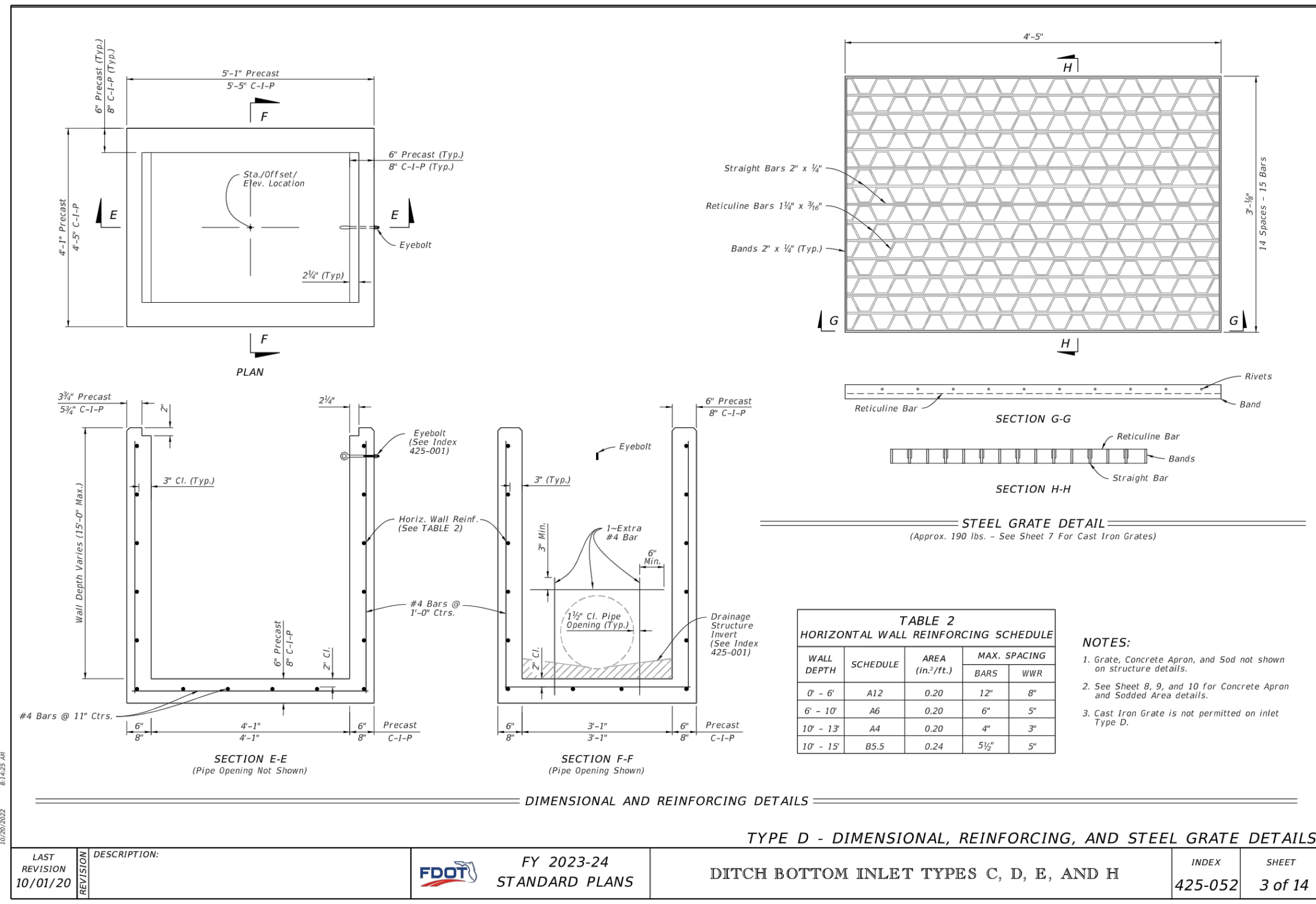
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 CH: WDH COR: N/A  
 APPROVED:

**SHERIDAN TRANSMISSION SUBSTATION**  
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**FENCE FILL AND GRADE SECTIONS**

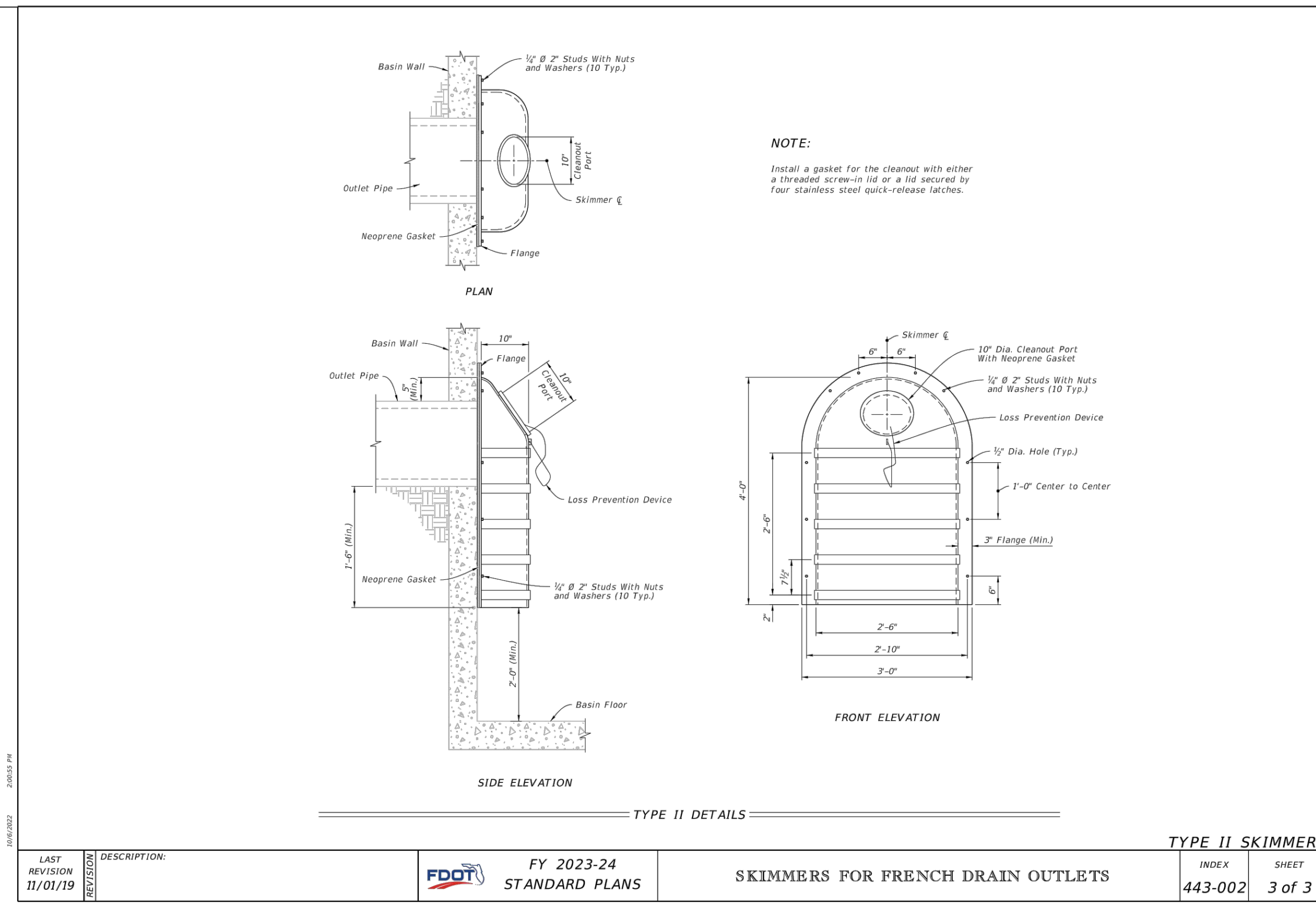
SOMI NO. 24001 FPL NO.  
 SHEET 4 OF 8  
**E-SHE02**

**WILLIAM D. HEIKKINEN**  
 LICENSE  
 No 78529  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 WILLIAM D. HEIKKINEN  
 FLORIDA LICENSE NO. 78529

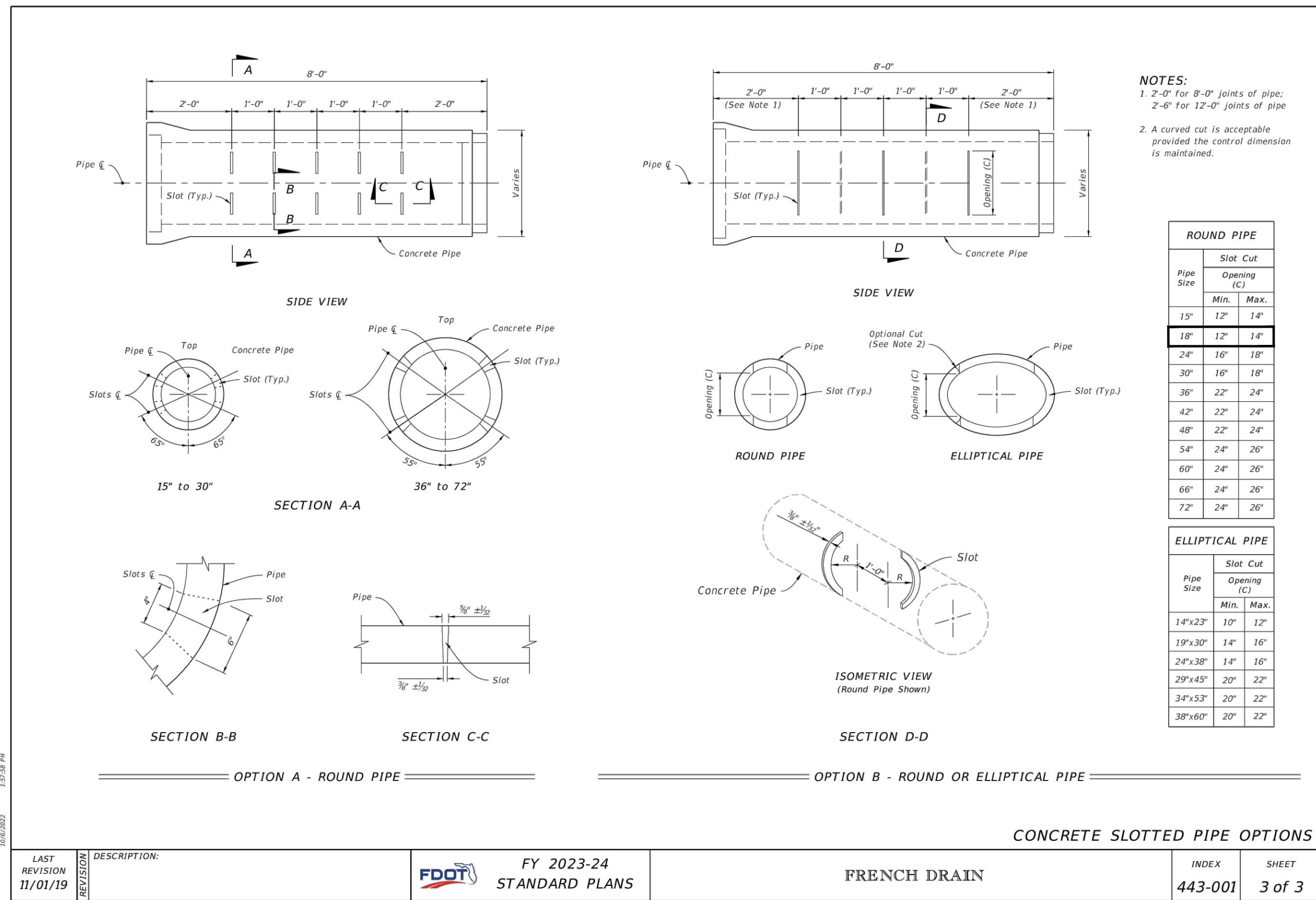




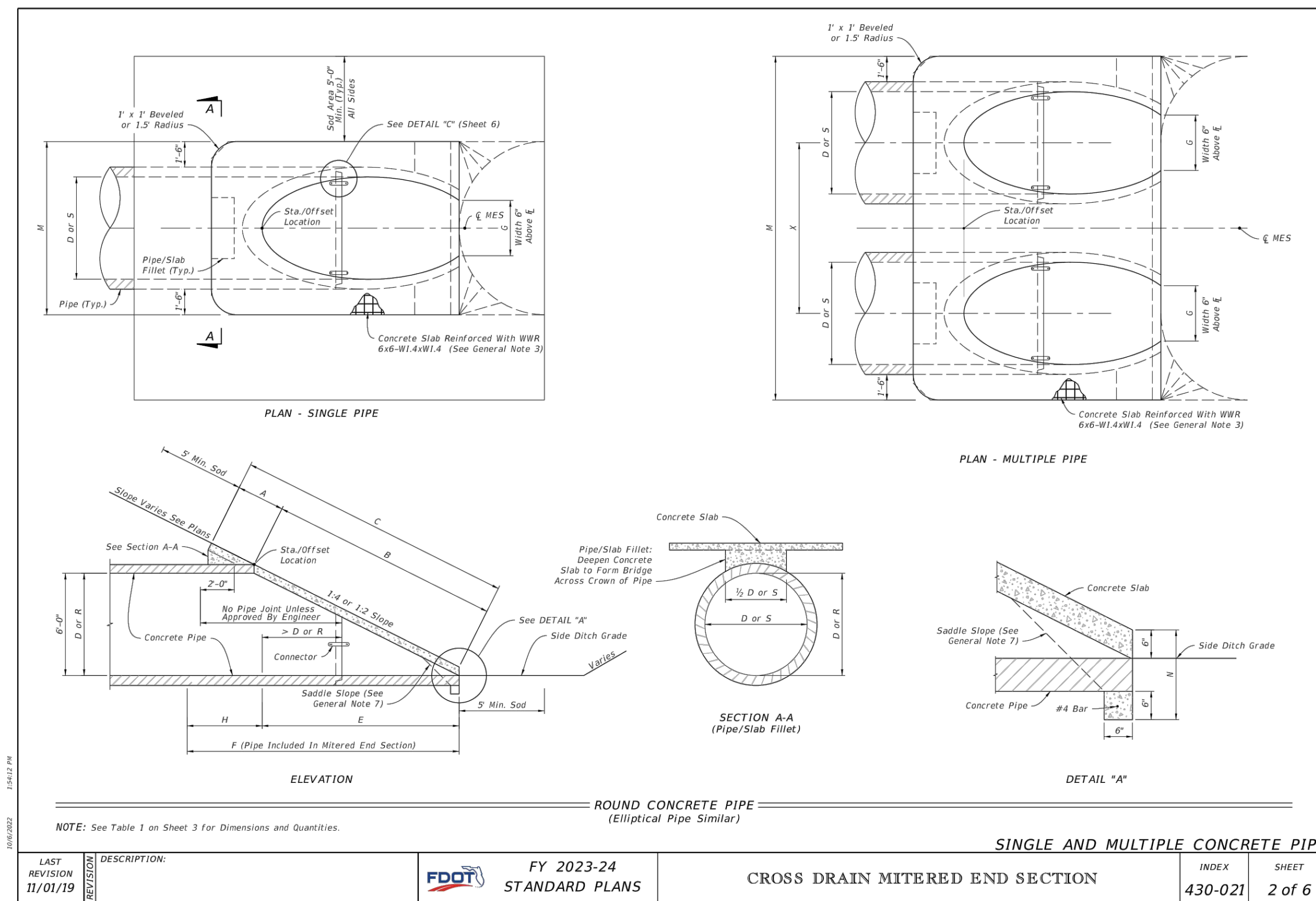
LAST REVISION	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
10/01/20			425-052	3 of 14



LAST REVISION	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
11/01/19			443-002	3 of 3

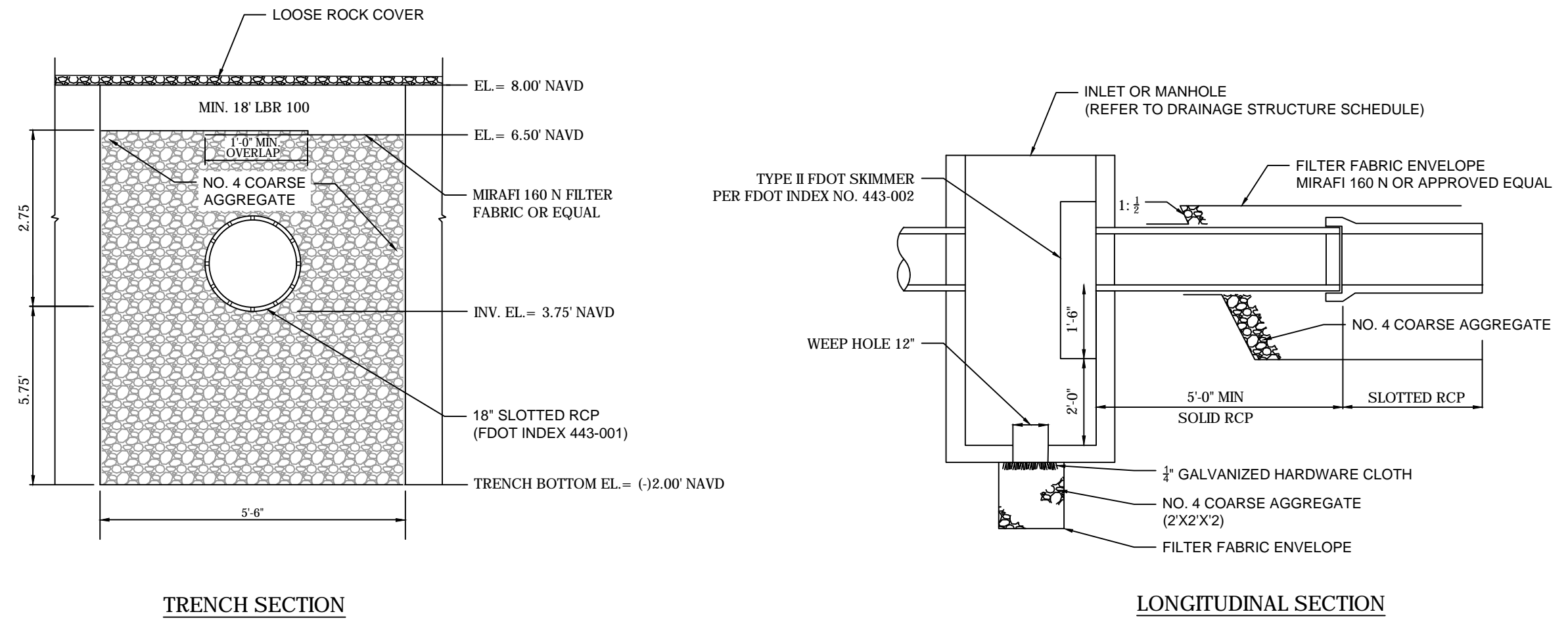
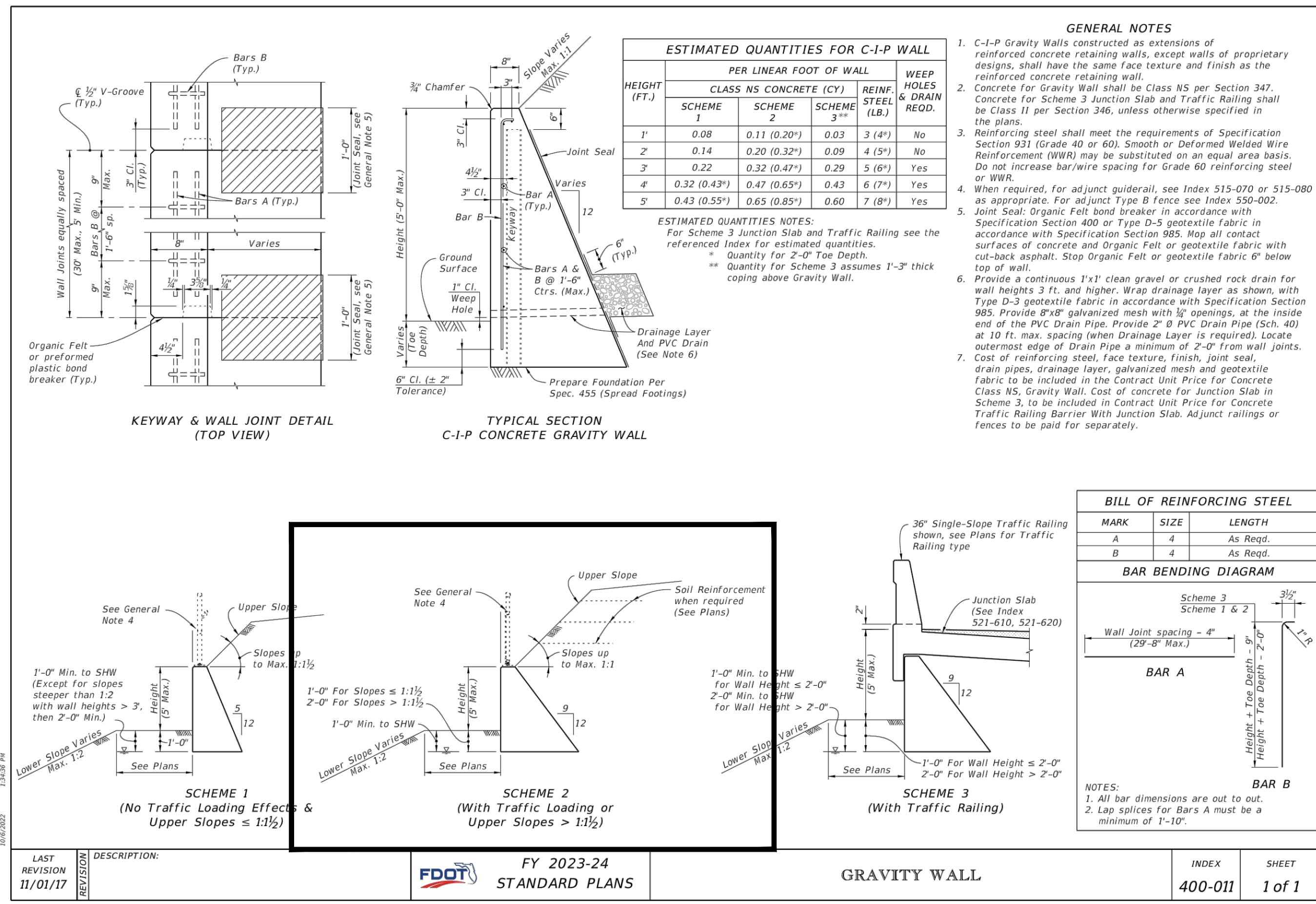


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11/01/19			443-001	3 of 3

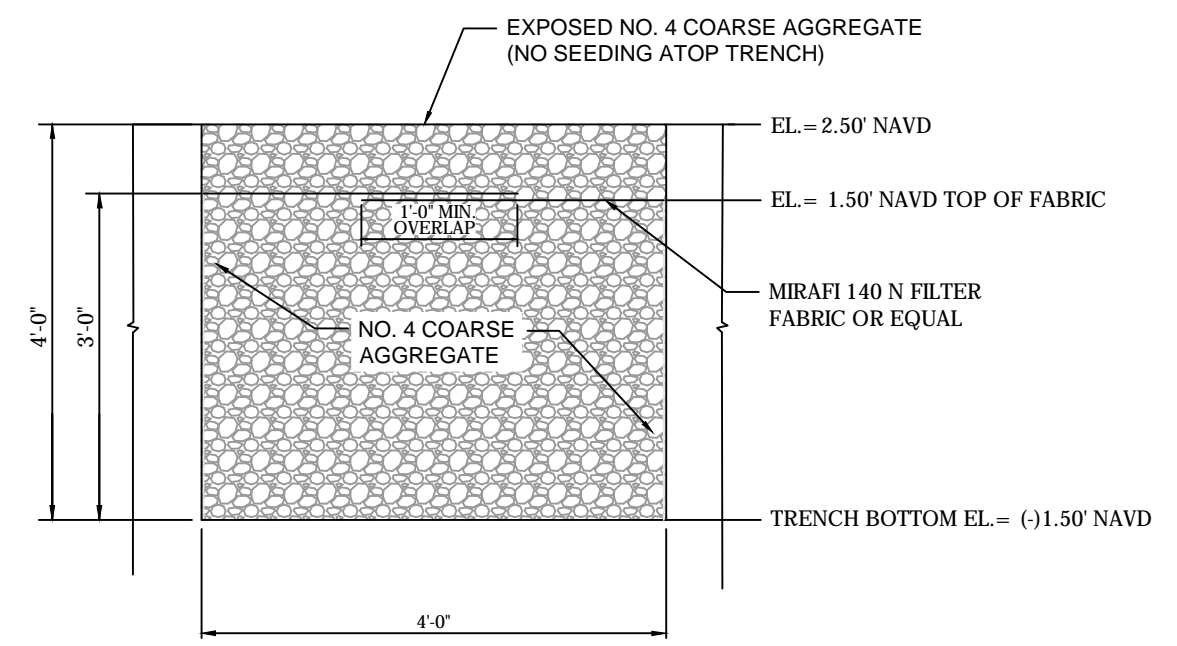


LAST REVISION	DESCRIPTION:	FY 2023-24 STANDARD PLANS	INDEX	SHEET
11/01/19			430-021	2 of 6





**EXFILTRATION TRENCH - SUBSTATION YARD (TYP.)**  
 SCALE: NTS



**BILL OF REINFORCING STEEL**

MARK	SIZE	LENGTH
A	4	As Req'd.
B	4	As Req'd.

**BAR BENDING DIAGRAM**

Scheme 3  
 Scheme 1 & 2  
 Wall Joint Spacing - 4'  
 (29'-8" Max.)

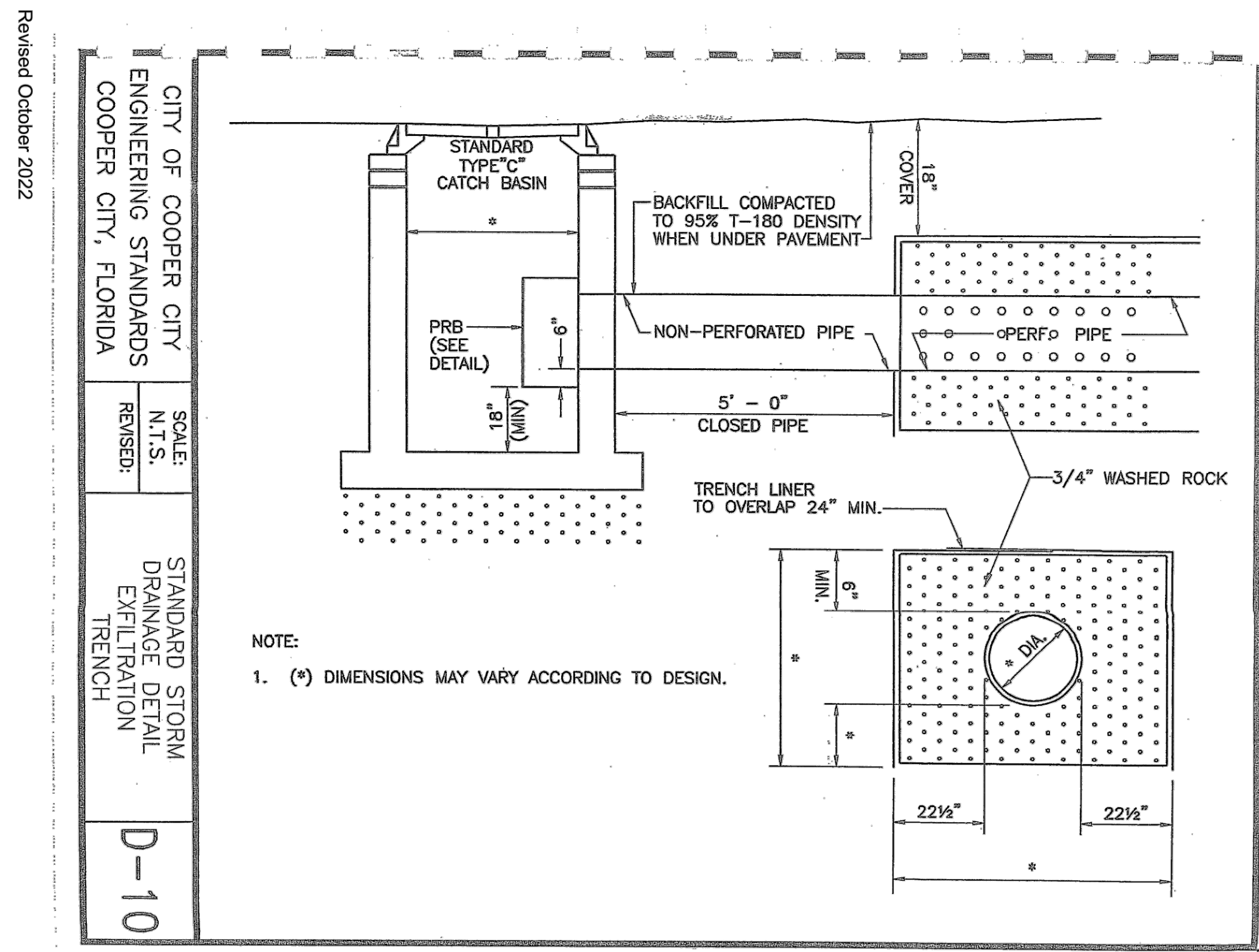
**BAR A**  
 Height + Toe Depth = 2'-0"  
 Height + Toe Depth = 2'-0"

**BAR B**  
 Height + Toe Depth = 2'-0"  
 Height + Toe Depth = 2'-0"

**NOTES:**  
 1. All bar dimensions are out to out.  
 2. Lap splices for Bars A must be a minimum of 1'-10".

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/17		400-011	1 of 1

**GRAVITY WALL**



**DRAINAGE STRUCTURE SCHEDULE:**

STR NO.	STRUCTURE TYPE	FDOT INDEX	RIM EL.	INVERT ELEVATION				BOS. EL.	SKIMMER
				N	S	E	W		
S-1	TYPE D DBI	425-052	8.00	-	-	-	4.00	2.50	-
S-2	TYPE D DBI	425-052	8.00	3.75	3.75	3.75	-	0.25	N, S, E
S-3	TYPE D DBI	425-052	8.00	-	3.75	3.75	-	0.25	S
S-4	TYPE D DBI	425-052	8.00	-	-	-	3.75	0.25	W
S-5	TYPE D DBI	425-052	8.00	3.75	-	3.75	3.75	2.25	-
S-6	TYPE D DBI	425-052	8.00	4.00	-	-	-	2.50	-
S-7	TYPE D DBI	425-052	8.00	-	3.80	-	3.80	2.30	-
S-8	MITERED END SECTION	430-021	-	-	-	2.50	-	-	-
S-9	MITERED END SECTION	430-021	-	-	-	2.50	-	-	-
S-10	TYPE D DBI	425-052	6.50	-	-	-	2.75	1.25	-
S-11	MITERED END SECTION	430-021	-	-	-	2.50	-	-	-
S-12	MITERED END SECTION	430-021	-	-	-	2.50	-	-	-
MH-1	48"Ø TYPE P MANHOLE	425-010	8.20	3.75	3.75	-	-	2.25	-

**NOTES:**  
 1. STRUCTURE GRATES SHALL BE HEAVY DUTY LOADING (H-20) AND HOT DIP GALVANIZED USF 6626 (TYPE D)  
 2. A 12" OPEN DIAMETER WEEP HOLE FILLED WITH WASHED GRADE ROCK, NO LARGER THAN 1 1/2" IS REQUIRED IN THE BASE OF ALL DRAINAGE STRUCTURES.

**DRAINAGE PIPE SCHEDULE:**

PIPE NO.	PIPE SIZE	PIPE MATERIAL	SOLID PIPE	PERF. PIPE	TOTAL PIPE	NOTES
P-1	18"Ø	RCP	60'	0'	60'	60-LF SOLID RCP
P-2	18"Ø	RCP	149'	68'	217'	68-LF EXFILTRATION TRENCH
P-3	18"Ø	RCP	15'	80'	95'	80-LF EXFILTRATION TRENCH
P-4	18"Ø	RCP	82'	0'	82'	82-LF SOLID RCP
P-5	18"Ø	RCP	102'	0'	102'	102-LF SOLID RCP
P-6	18"Ø	RCP	204'	0'	204'	104-LF SOLID RCP
P-7	18"Ø	RCP	65'	44'	109'	44-LF EXFILTRATION TRENCH
P-8	18"Ø	RCP	46'	0'	46'	46-LF SOLID RCP
P-9	18"Ø	RCP	60'	0'	60'	60-LF SOLID RCP
P-10	18"Ø	RCP	124'	0'	124'	124-LF SOLID RCP

**NOTES:**  
 1. RCP DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC (MIRAFI 160N OR APPROVED EQUAL)  
 2. COMPACTION AROUND DRAINAGE PIPE AND STRUCTURES SHALL BE DOCUMENTED AND PROVIDED TO FPOWNERS REP.  
 3. PRECAST DRAINAGE STRUCTURES SHALL NOT BE MODIFIED WITHOUT APPROVAL FROM THE ENGINEER OF RECORD AND FPL  
 4. PIPE MEASUREMENTS FROM CENTER OF DRAINAGE STRUCTURE AND END OF M.E.S.



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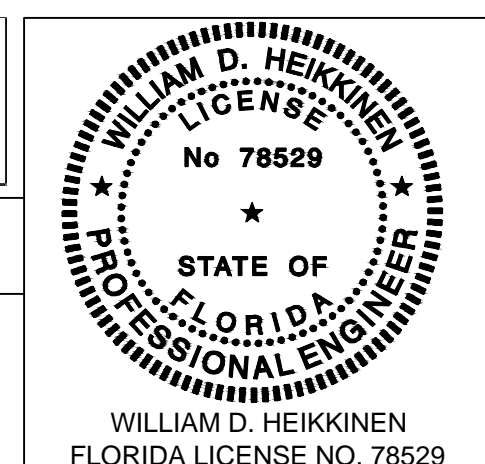
DATE:	SCALE:	DR:	ER:
APRIL 2024	AS NOTED	N/A	WDH
APPROVED:		CH: WDH	COR: N/A

**SHERIDAN TRANSMISSION SUBSTATION**  
 830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024  
**FENCE FILL AND GRADE DETAILS**

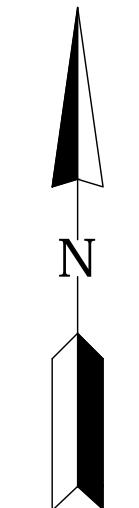
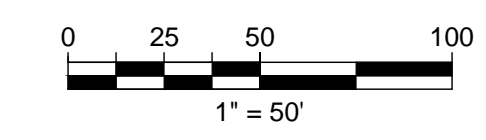
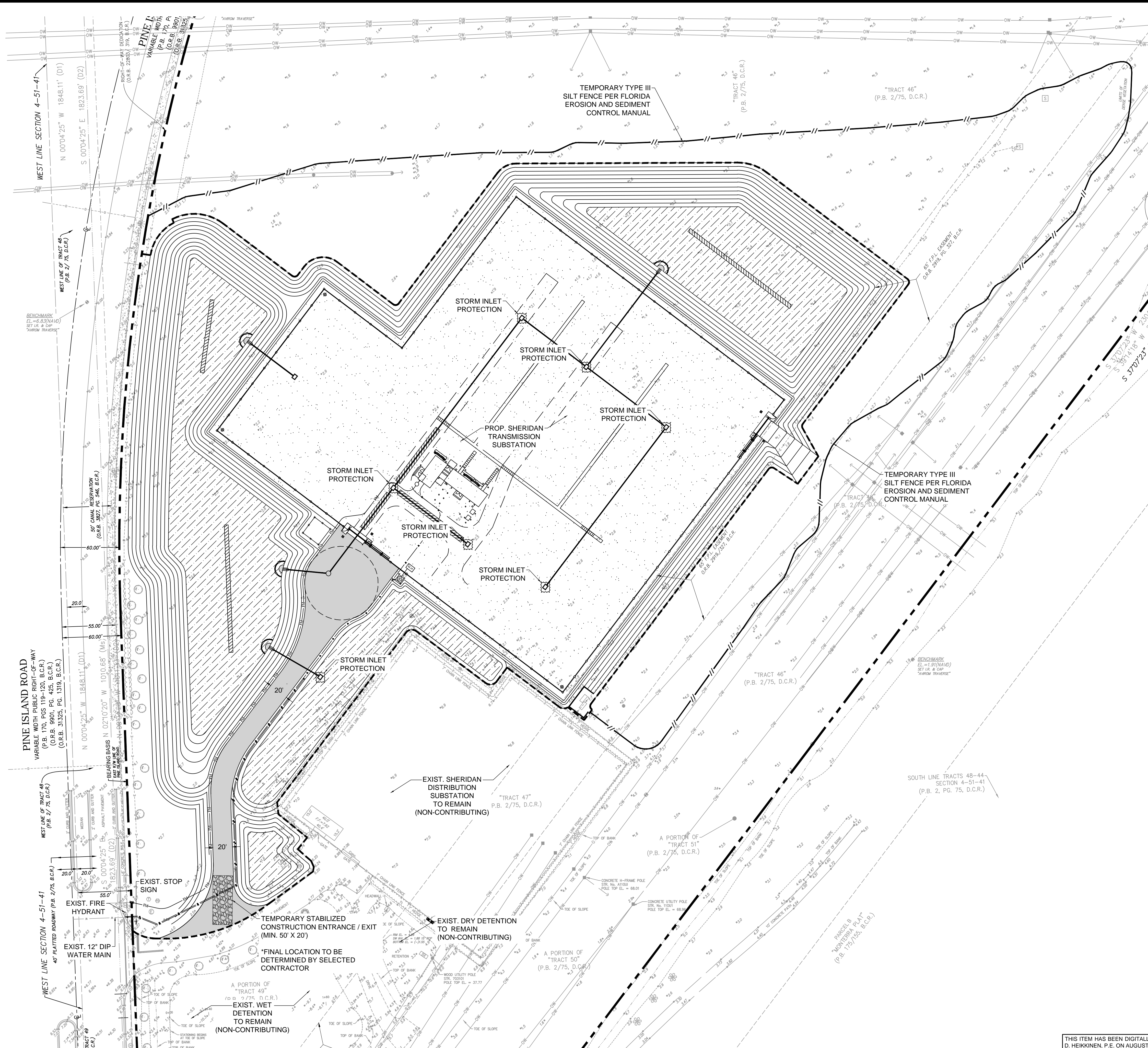
SOMI NO. 24001  
 FPL NO.  
 SHEET 6 OF 8  
**E-SHE02**

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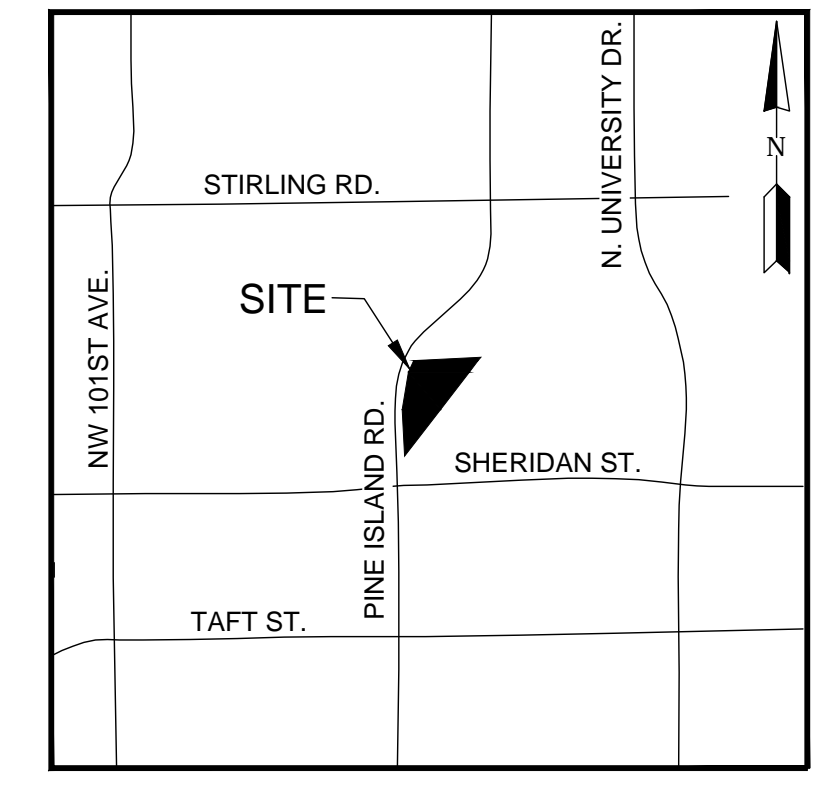
**PERMIT DRAWINGS**  
 DATE: APRIL 22, 2024







- LEGEND:**
- PROPERTY LINE
  - PROJECT LIMITS
  - EXISTING ELEVATION, FT NAVD
  - TYPE III SILT FENCE (AROUND CLEARING LIMITS)
  - STORM INLET PROTECTION
  - TEMPORARY CONSTRUCTION ENTRANCE



**LOCATION SKETCH**  
SECTION 04, TOWNSHIP 51 SOUTH, RANGE 41 EAST  
BROWARD COUNTY, FLORIDA  
(1" = 3,520')

**STORMWATER POLLUTION PREVENTION PLAN - NARRATIVE**

**PROJECT DESCRIPTION:**  
FLORIDA POWER & LIGHT PROPOSES THE SHERIDAN TRANSMISSION SUBSTATION. THE PROPOSED SUBSTATION CONSISTS OF A COMPACTED LIMEROCK YARD WITH LOOSE ROCK COVER, 12' PRECAST CONCRETE SECURITY WALL, ASPHALT PAVED ACCESS DRIVE AND A STORMWATER MANAGEMENT SYSTEM CONSISTING OF EXFILTRATION TRENCH AND DRY RETENTION.

**MAJOR SOIL DISTURBING ACTIVITIES:**  
CLEARING & GRUBBING OF EXISTING GREEN SPACE/VEGETATION AND WETLANDS, GRADING, EARTHWORK ASSOCIATED WITH SUBGRADE, BASE, LOOSE ROCK COVER, DRY RETENTION AND PRECAST WALL WITH FOUNDATIONS.

TOTAL PROPERTY AREA: ± 29.75 ACRES  
TOTAL AREA TO BE DISTURBED: ± 10.80 ACRES

**DRAINAGE AREAS:**  
FULL ONSITE RETENTION OF THE 100-YEAR, 72-HOUR STORM

**WETLAND AREA:**  
PALUSTRINE EMERGENT (PEM) WETLANDS: 14.11 ACRES  
PEM/PALUSTRINE SCRUB-SCRUB WETLANDS: 10.15 ACRES

**NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:**  
PRIOR TO THE START OF ANY SOIL DISTURBING ACTIVITIES, SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE SILT FENCE SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ACHIEVED AND THE CONSTRUCTION IS COMPLETED OR AS DIRECTED BY THE ENGINEER. TEMPORARY CONSTRUCTION FENCE MAY BE INSTALLED AT THE CONTRACTORS DISCRETION.

**EROSION AND SEDIMENT CONTROLS:**

**STABILIZATION PRACTICES:**  
PERMANENT PLANTING, SODDING OR SEEDING, PAVEMENT

**STRUCTURAL PRACTICES:**  
SILT FENCES, WIND SCREEN, BERMS, ROCK BEDDING AT CONSTRUCTION EXIT, STORM INLET SEDIMENT TRAP, FILTER FABRIC AT INLETS; CONSTRUCTION ENTRANCE/EXIT

**DESCRIPTION OF STORMWATER MANAGEMENT:**  
CONTRACTOR SHALL INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES DESCRIBED AND PROVIDE ADDITIONAL MEASURES AS NECESSARY. AFTER ANY RAIN EVENT, THE CONTRACTOR WILL REVIEW ALL BMP'S AND REPAIR OR REPLACE BMP'S AS NECESSARY.

**WASTE DISPOSAL:**

- ANY CONSTRUCTION DEBRIS GENERATED AS A RESULT OF THIS PROJECT WILL BE DISPOSED OF OFF-SITE AT AN APPROPRIATE WASTE DISPOSAL FACILITY
- CONCRETE WASH OUT LOCATIONS WILL BE PROVIDED IN AREAS WHERE THE DISPOSAL MATERIALS WILL BE CONTAINED AS TO PREVENT DISCHARGE OUTSIDE OF THE PROJECT LIMITS.
- NEW AND EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED WITH SYNTHETIC BALES AND/OR FILTER FABRIC
- STAGING AREAS WILL BE LOCATED WITHIN THE PROJECT WORK ZONE UNLESS OTHERWISE APPROVED
- A DUMPSTER MAY BE PROVIDED AT THE SITE DEPENDING ON THE AMOUNT OF LITTER GENERATED
- LOADED TRUCKS WILL BE COVERED WITH TARPS

**OFFSITE VEHICLE TRACKING:**

- HAUL ROAD DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY STABILIZED CONSTRUCTION ENTRANCE - WITH WASH WATER CONTAINMENT WATER TRUCK
- SCHEDULING STREET SWEEPING (DAILY)

**NON-STORM WATER DISCHARGE (INCLUDING SPILL REPORTING):**

NO NON-STORMWATER DISCHARGES ARE ANTICIPATED AT THIS TIME. WHEN DEWATERING IS IMPLEMENTED, THE WATER WILL BE DEPOSITED IN A CONTROLLED AREA ON-SITE TO PREVENT OFF-SITE DISCHARGE OR AS APPROVED BY PERMIT.

**EROSION CONTROL DEVICES:**

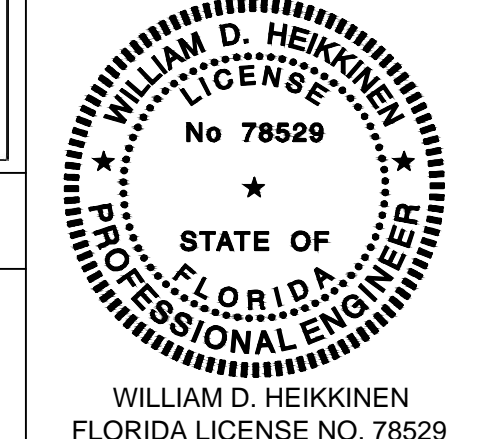
LOCATIONS AND TYPES OF ALL EROSION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY PLAN AND/OR BY FPL. CONTRACTOR SHALL IMPLEMENT THE SWPPP AS PER CONTRACT PLANS. HOWEVER, IT MAY BE REVISED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME WORK IS BEING PERFORMED. MONITORING SHALL BE PERFORMED ON A WEEKLY BASIS AND AFTER A 1/2" STORM EVENT WITH ROUTINE MAINTENANCE AND REPLACEMENT OF ANY DEVICES AS REQUIRED. CONTAMINANT OR REMOVAL OF POLLUTANTS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FDOT STANDARD SPECIFICATIONS. THE RESPONSIBLE PERSONS FOR MONITORING AND MAINTAINING THE EROSION CONTROL DEVICES SHALL BE:

CONTRACTOR: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_

**INSPECTION**  
QUALIFIED PERSONNEL FROM THE CONTRACTOR SHALL INSPECT THE FOLLOWING ITEMS DAILY THROUGHOUT THE CONSTRUCTION PERIOD. PREPARATION OF THE CONTRACTOR'S WEEKLY REPORT OF INSPECTION, MAINTENANCE AND REPAIRS FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE PAY ITEMS. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS REPORTS SHALL BE COMPILED WEEKLY.

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APPROVED: \_\_\_\_\_

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830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024

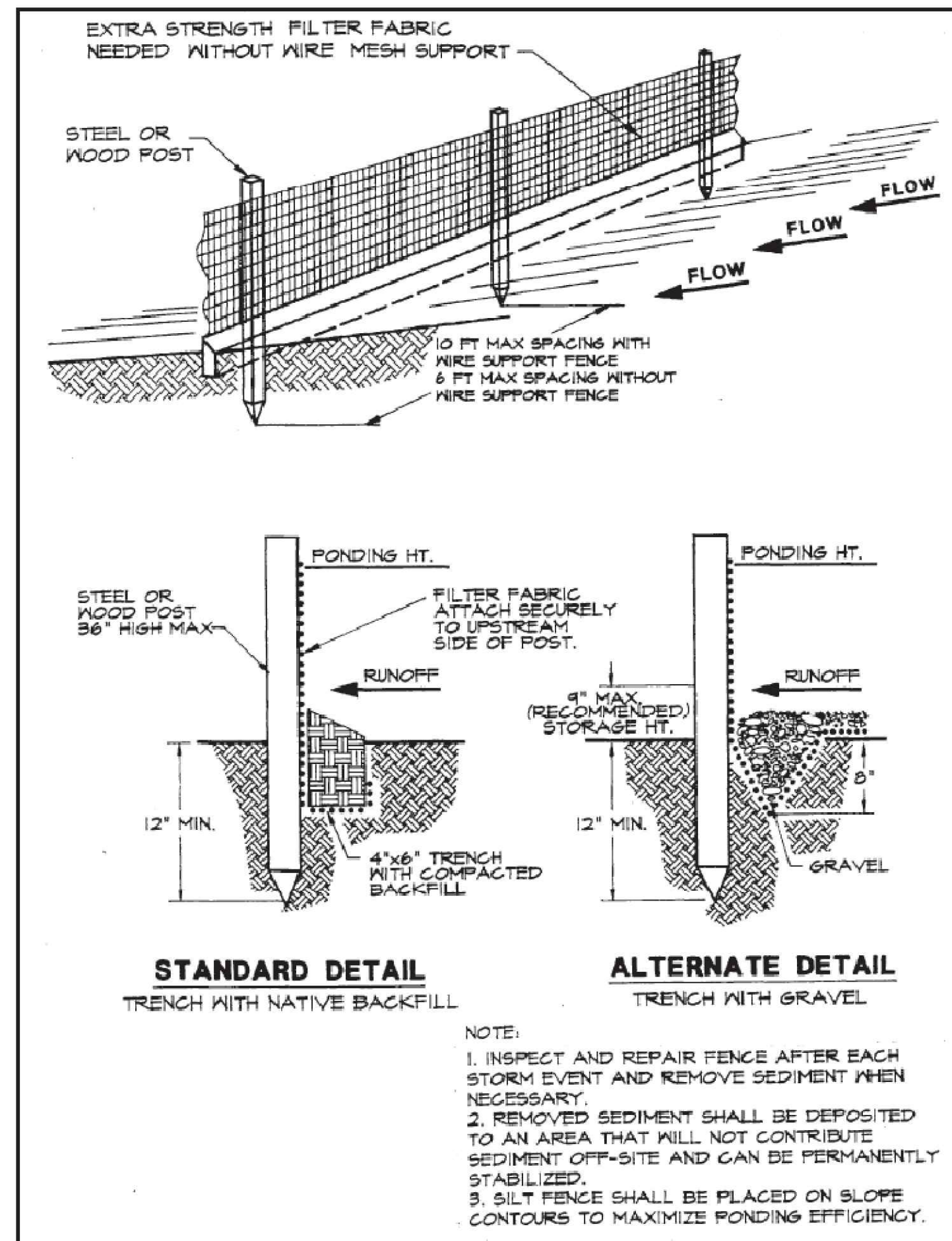
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SOMI NO. 24001 FPL NO. \_\_\_\_\_

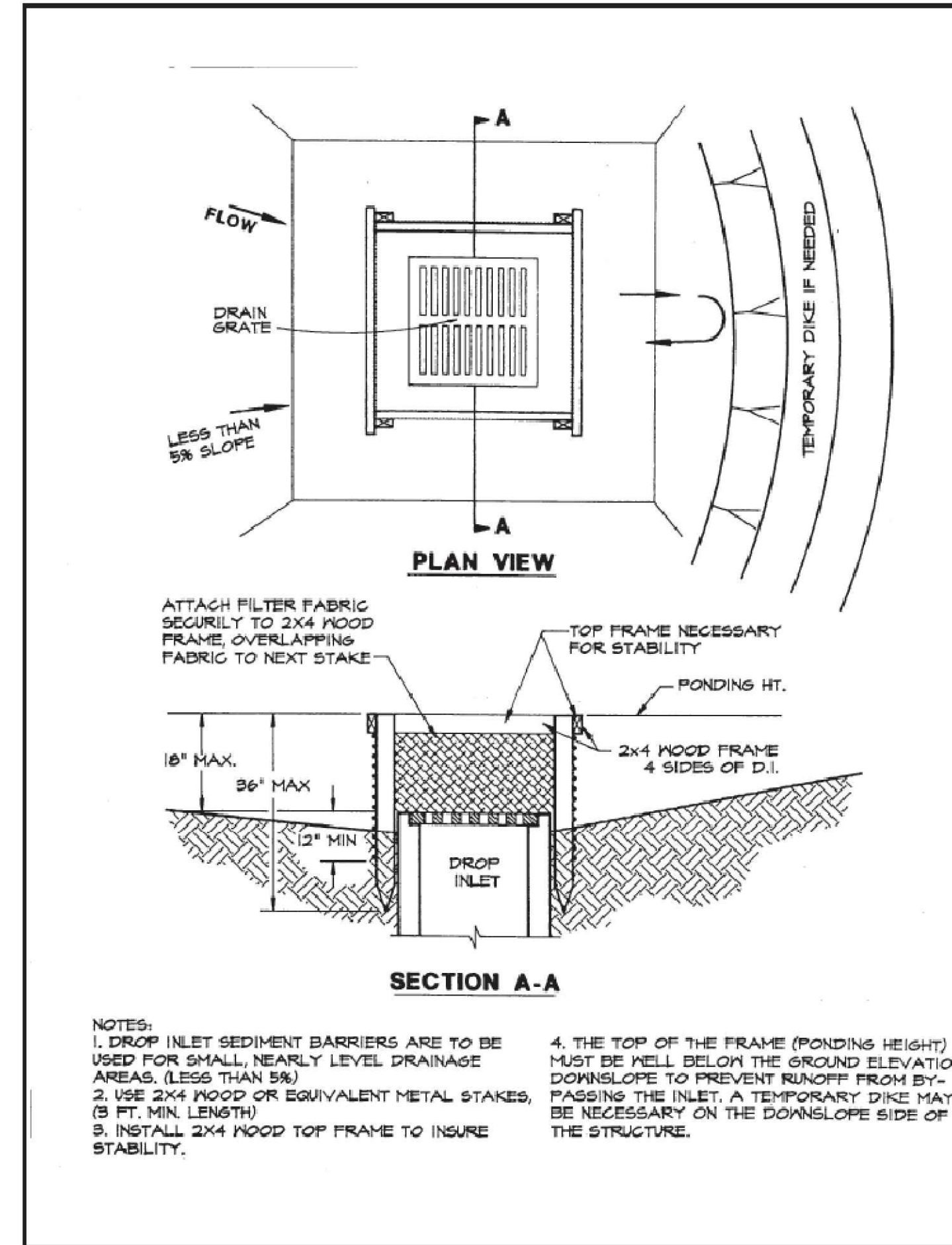
SHEET 7 OF 8  
**E-SHE02**

REV NO. \_\_\_\_\_

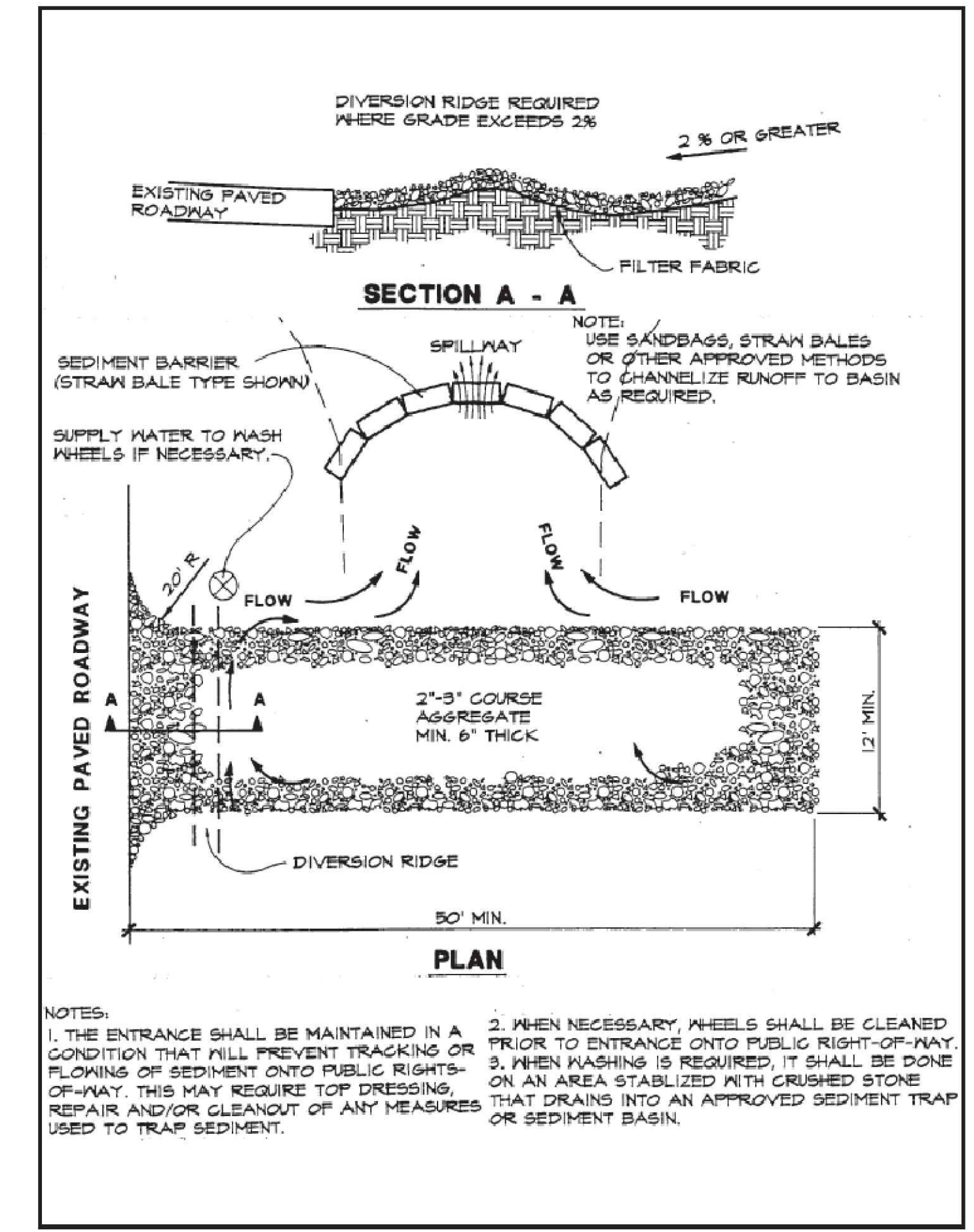




**SILT FENCE**  
SCALE: N.T.S.  
REFER TO FLORIDA EROSION AND SEDIMENT CONTROL MANUAL



**DROP INLET SEDIMENT BARRIER**  
SCALE: N.T.S.  
REFER TO FLORIDA EROSION AND SEDIMENT CONTROL MANUAL



**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**  
SCALE: N.T.S.  
REFER TO FLORIDA EROSION AND SEDIMENT CONTROL MANUAL

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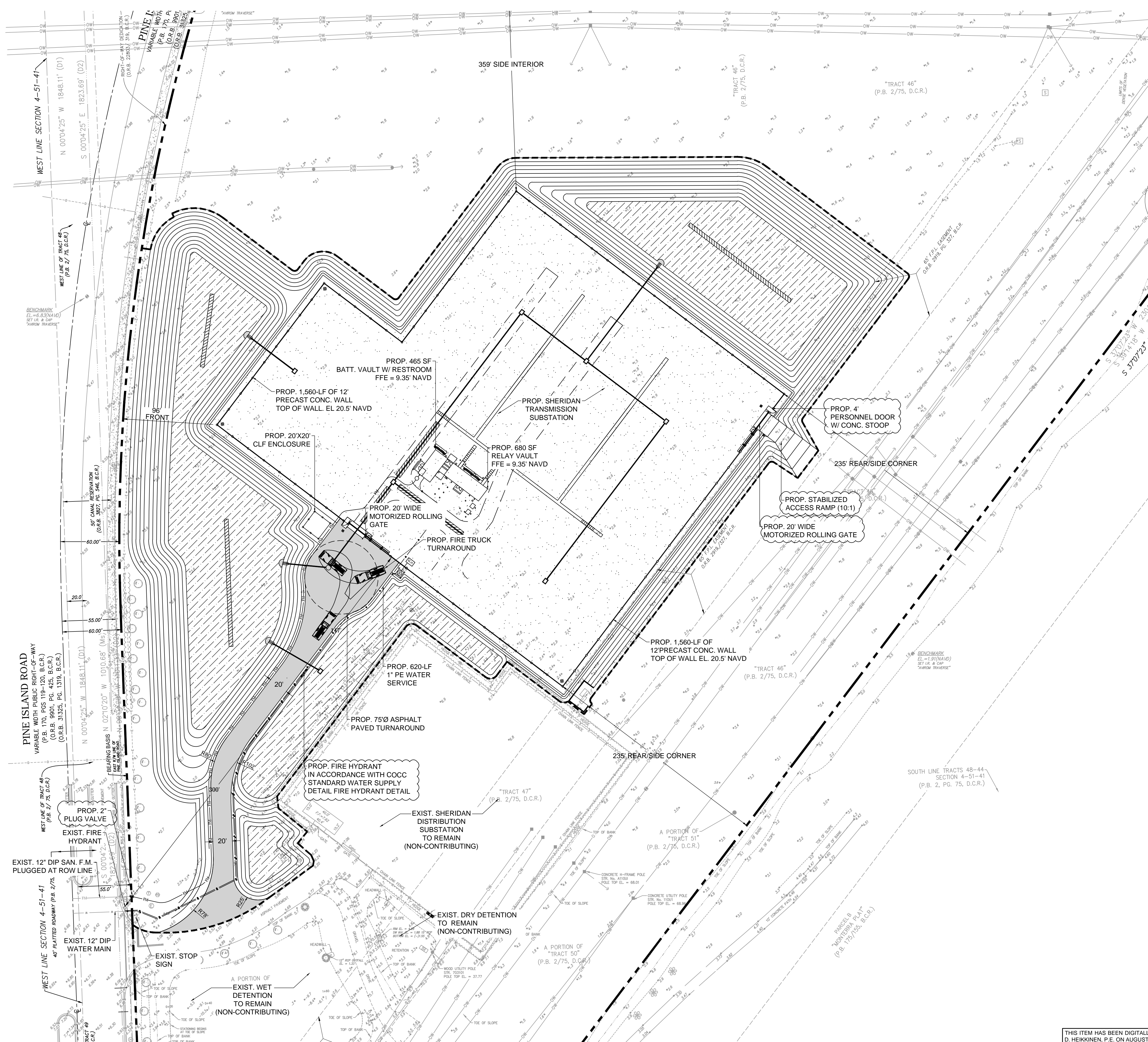
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DATE: APRIL 22, 2024

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**WILLIAM D. HEIKKINEN**  
LICENSE  
No 78529  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
WILLIAM D. HEIKKINEN  
FLORIDA LICENSE NO. 78529





**LEGEND:**

- PROPERTY LINE
- - - PROJECT LIMITS
- +4.0 EXISTING ELEVATION, FT NAVD
- 7.5 PROPOSED CONTOUR, FT NAVD
- PROPOSED 12" PRECAST CONCRETE WALL
- ⊕ PROPOSED SUBSTATION BENCHMARK
- ▨ PROPOSED SUBSTATION YARD EXPANSION (2" #5 LOOSE LIMEROCK)
- ▩ PROPOSED BOTTOM OF DRY RETENTION
- ▭ PROPOSED ASPHALT ACCESS DRIVE (2" TYPE SP 9.5 OR 12.5)

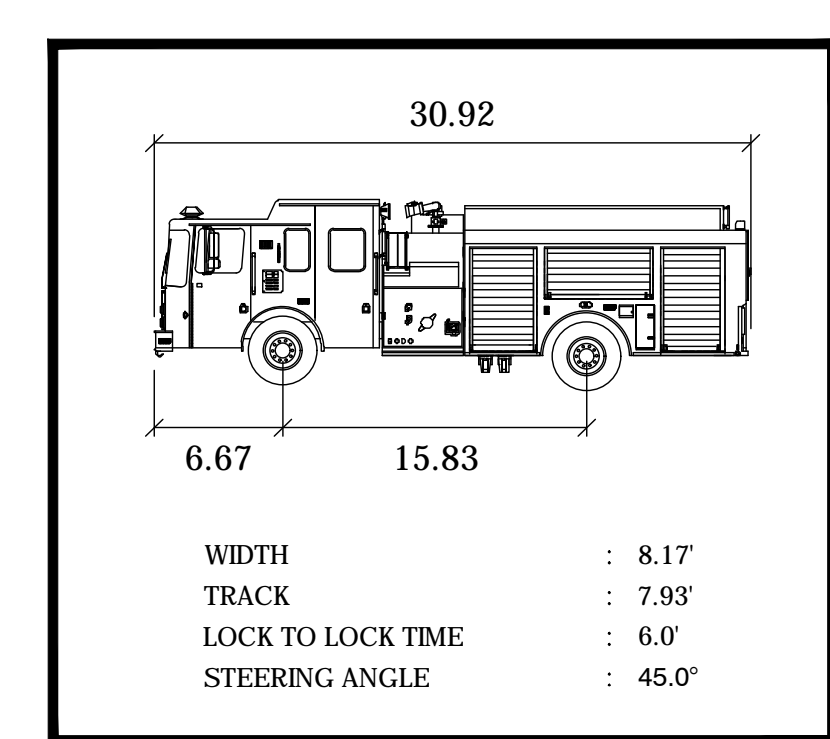
- FIRE ACCESS NOTES:**
- MINIMUM DIMENSIONS FOR FIRE DEPARTMENT ACCESS ROADS SHALL BE 20 FEET UNOBSTRUCTED WIDTH (TWO WAY TRAFFIC) AND NOT LESS THAN 13'-6" OF UNOBSTRUCTED VERTICAL CLEARANCE.
  - FIRE DEPARTMENT ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT A MINIMUM 32 TONS AND SHALL BE PROVIDED WITH A SURFACE FOR ALL WEATHER DRIVING CAPABILITIES.
  - SHERIDAN SUBSTATION IS AN UNMANNED FACILITY. THE VAULTS HOUSE ADDITIONAL METERING, COMMUNICATION, AND MONITORING EQUIPMENT THAT ARE LINKED DIRECTLY TO FPL'S SYSTEM CONTROL CENTER. THESE HIGHLY SENSITIVE MONITORING/ALARM SYSTEMS WILL DETECT IF ANY OF THE EQUIPMENT IS NOT OPERATING WITHIN DESIGN STANDARDS. IN THE EVENT AN ALARM IS SIGNALLED, OUR EMERGENCY CREWS FROM THE NEARBY SERVICE CENTER WILL BE IMMEDIATELY DISPATCHED TO THE SITE WHERE THEY WILL PERFORM A DETAILED SYSTEM ANALYSIS AND CORRECT THE SITUATION LONG BEFORE THE RISK OF EQUIPMENT FAILURE OR THE EXTREMELY REMOTE CHANCE OF A FIRE.

RISK FACTORS FOR A FIRE AT A SUBSTATION ARE EXTREMELY RARE AND ARE A RESULT OF MULTIPLE EQUIPMENT FAILURES OCCURRING SIMULTANEOUSLY. HOWEVER, SHOULD A FIRE OCCUR IN THE SUBSTATION IT WILL BE IMMEDIATELY CONTAINED WITHIN THE FENCE PERIMETER. OUR CREWS ARE WELL TRAINED IN THESE MATTERS AND WILL UTILIZE APPROPRIATE EMERGENCY RESPONSE EQUIPMENT TO HANDLE SITUATIONS SHOULD THEY OCCUR.

IT IS ESSENTIAL THAT THE FIRST RESPONDER TO ANY EVENT AT THE SUBSTATION BE A TRAINED FPL EMPLOYEE WHO CAN OPERATE THE PROPER CIRCUIT BREAKERS AND SWITCHES THAT WILL DE-ENERGIZE THE AFFECTED EQUIPMENT PRIOR TO ANY FIRE FIGHTING EFFORTS. IT IS UNDERSTOOD THAT CONVENTIONAL FIRE FIGHTING METHODS (WATER) ARE NOT APPROPRIATE FOR ENERGIZED HIGH VOLTAGE ELECTRICAL EQUIPMENT. THE FLORIDA PSC REQUIRES FPL TO COMPLY WITH THE RULES OF THE NATIONAL ELECTRIC SAFETY CODE, PART 1, SECTION 10 OF THE CODE LIMITS ACCESS TO ELECTRIC SUPPLY STATIONS TO QUALIFIED PERSONNEL ONLY. OTHER PERSONNEL SHALL PROCEED ONLY WHEN AUTHORIZED BY A QUALIFIED PERSON (PART 4, SECTION 42).

IT IS FPL'S POLICY, IN THE INTEREST OF PUBLIC SAFETY, TO PROHIBIT THE USE OF ANY DEVICE THAT WOULD ALLOW AN UNAUTHORIZED PERSON TO ENTER THE SUBSTATION WITHOUT THE PRESENCE OF A QUALIFIED FPL EMPLOYEE.

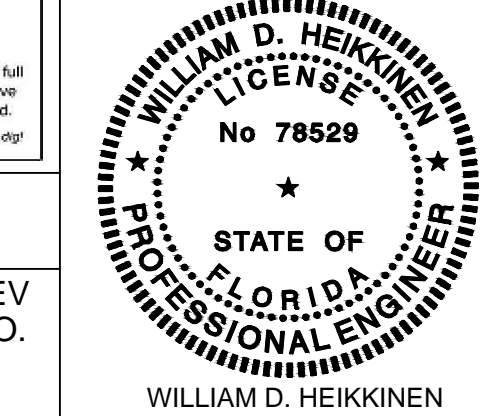
IN ALL INSTANCES, THE LOCAL FIRE DEPARTMENT WILL ALSO BE CONTACTED TO ASSIST, PARTICULARLY SHOULD A FIRE BE LOCATED OUTSIDE THE FENCED PERIMETER.



**PERMIT DRAWINGS**  
DATE: APRIL 22, 2024

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**SE**  
SOMI ENGINEERING, LLC  
2332 GALIANO STREET 2ND FLOOR, CORAL GABLES, FL 33134  
P: (561) 901-9255  
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32647

ER	NO	DATE	REVISION
	2	8/05/2024	REVISED PER COCC DRC COMMENTS SP 2-1-24, CBWCD 240-10 COMMENTS, ADDED 16' NE EXPANSION AND RAMP
	1	6/25/2024	REVISED PER COCC DRC COMMENTS SP 2-1-24

DATE: APRIL 2024 SCALE: AS NOTED

**POWER DELIVERY**

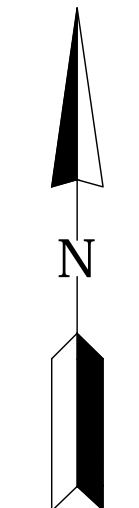
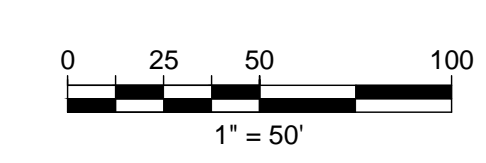
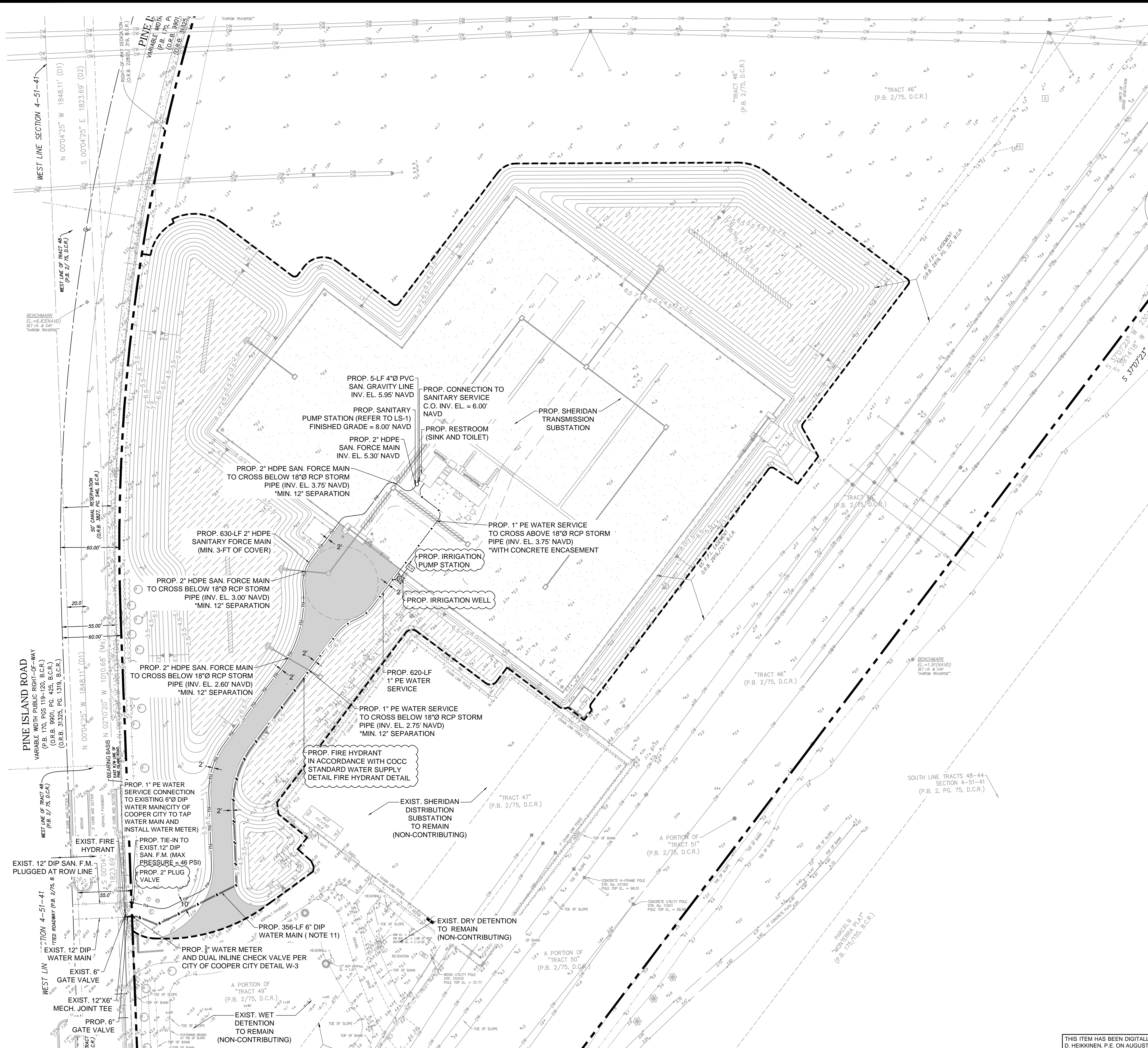
DR: N/A ER: WDH  
CH: WDH COR: N/A  
APPROVED:

**SHERIDAN TRANSMISSION SUBSTATION**  
830 PINE ISLAND ROAD, COOPER CITY, FLORIDA, 33024  
**FIRE PROTECTION AND SITE ACCESS PLAN**

SOMI NO. 24001 FPL NO.  
SHEET 1 OF 1  
**E-SHE05**

REV NO.  
WILLIAM D. HEIKKINEN  
FLORIDA LICENSE NO. 78529





- LEGEND:**
- PROPERTY LINE
  - PROJECT LIMITS
  - EXISTING ELEVATION, FT NAVD
  - PROPOSED CONTOUR, FT NAVD
  - PROPOSED 12' PRECAST CONCRETE WALL
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  - PROPOSED ASPHALT ACCESS DRIVE (2" TYPE SP 9.5 OR 12.5)
  - PROPOSED GRAVITY SEWER
  - PROPOSED SEWER FORCE MAIN
  - PROPOSED WATER MAIN/WATER SERVICE
  - PROPOSED SANITARY CLEANOUT
  - PROPOSED CHECK VALVE
  - PROPOSED METER BOX
  - PROPOSED PLUG VALVE



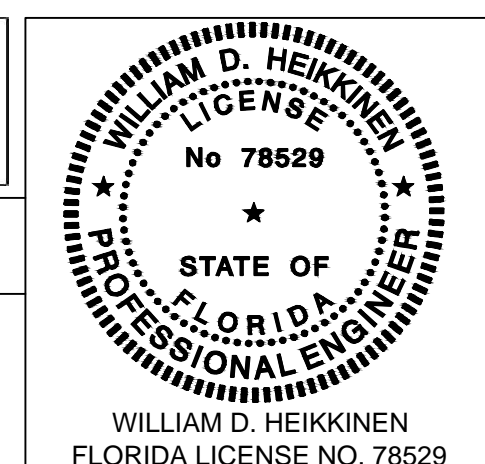
**LOCATION SKETCH**  
SECTION 04, TOWNSHIP 51 SOUTH, RANGE 41 EAST  
BROWARD COUNTY, FLORIDA  
(1" = 3,520')

- WATER AND SEWER NOTES:**
- LOCATION OF EXISTING UTILITIES PER CITY OF COOPER CITY SEWER ATLAS AND SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR TO FIELD VERIFY INVERTS AND LOCATIONS OF EXISTING UTILITIES AND NOTIFY THE ENGINEER OF RECORD OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO COORDINATE WITH THE CITY OF COOPER CITY FOR REQUIREMENTS OF WATER AND SEWER CONNECTIONS.
  - ELEVATIONS SHOWN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - CONTRACTOR SHALL COORDINATE WITH BROWARD COUNTY FOR PAVEMENT RESTORATION IN THE PINE ISLAND ROAD RIGHT-OF-WAY, A BROWARD COUNTY MAINTAINED ROAD, IF NECESSARY.
  - WATER AND SEWER PIPING SHALL HAVE A MINIMUM 3-FT OF COVER.
  - THE PROPOSED SHERIDAN TRANSMISSION SUBSTATION IS AN UNMANNED RESTRICTED ACCESS FACILITY. NO FPL EMPLOYEES REPORT TO THIS LOCATION AND MAINTENANCE CREWS WILL PARK INSIDE THE FENCED AREA. THEREFORE, NO PARKING SPACES WILL BE PROVIDED. FPL TWO-MAN MAINTENANCE CREWS WILL AVERAGE TWO TRIPS PER MONTH TO THIS FACILITY.
  - A MINIMUM 10 FET SHALL BE MAINTAINED BETWEEN PROPOSED WATER AND SANITARY LINES.
  - MAINTENANCE OF TRAFFIC (MOT) SHALL BE IN ACCORDANCE WITH CITY OF COOPER CITY, BROWARD COUNTY AND FDOT SPECIFICATION.
  - PROPOSED UTILITY PIPING (WATER AND SEWER) THAT CANNOT MAINTAIN MINIMUM COVER REQUIREMENTS UNDER DRIVABLE SURFACES SHALL BE CONCRETE ENCASED.
  - FIRE HYDRANT SHALL BE MANUFACTURED BY AMERICAN DARLING (B-84-B) PER CITY OF COOPER CITY HYDRANT DETAIL W-6.
  - 6" DIP WATER MAIN AND 1" PE WATER SERVICE SHALL BE LOCATED IN THE SAME TRENCH. 6" DIP WATER MAIN SHALL MAINTAIN 36" OF COVER AND 1" PE WATER SERVICE SHALL MAINTAIN 18" OF COVER.

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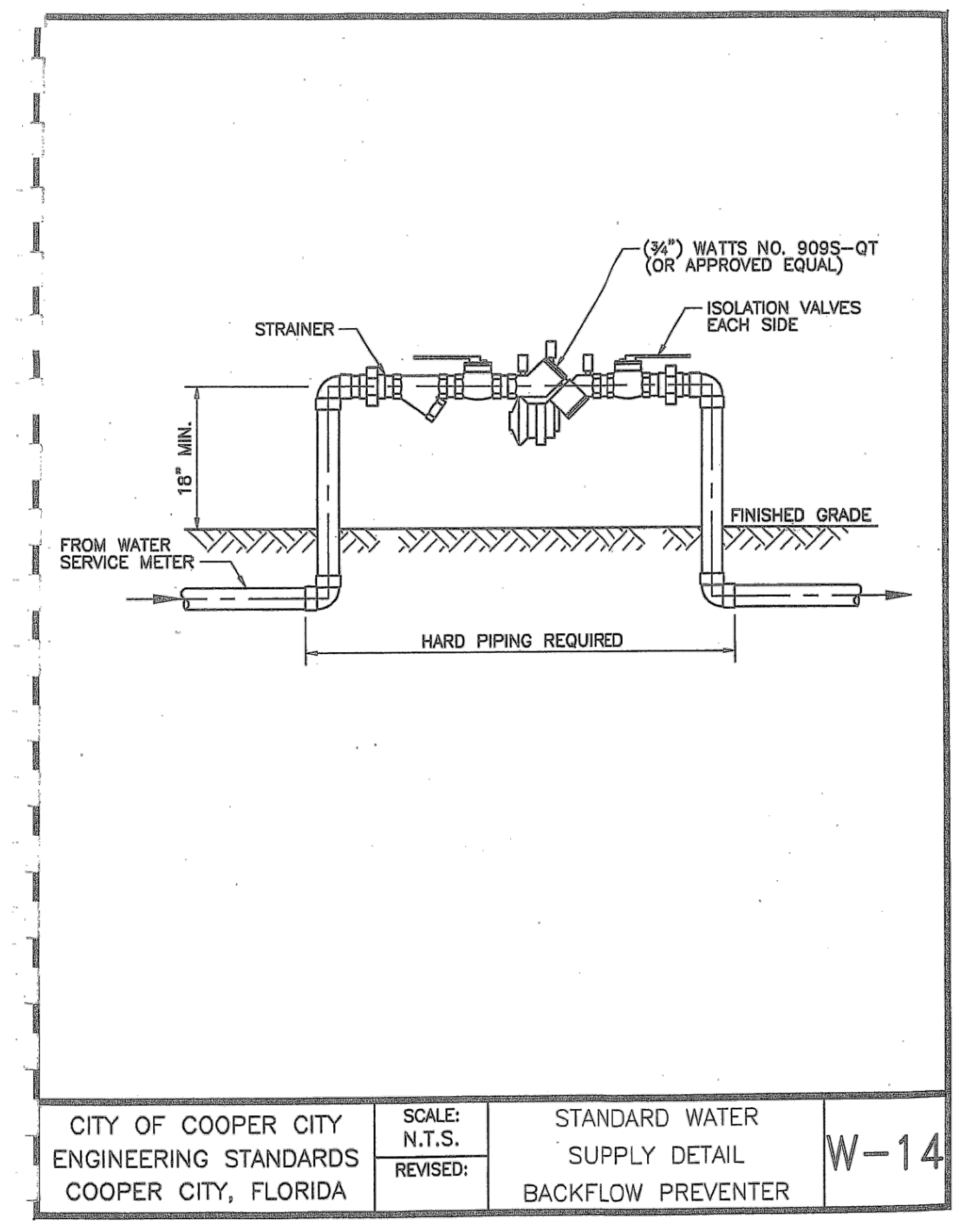
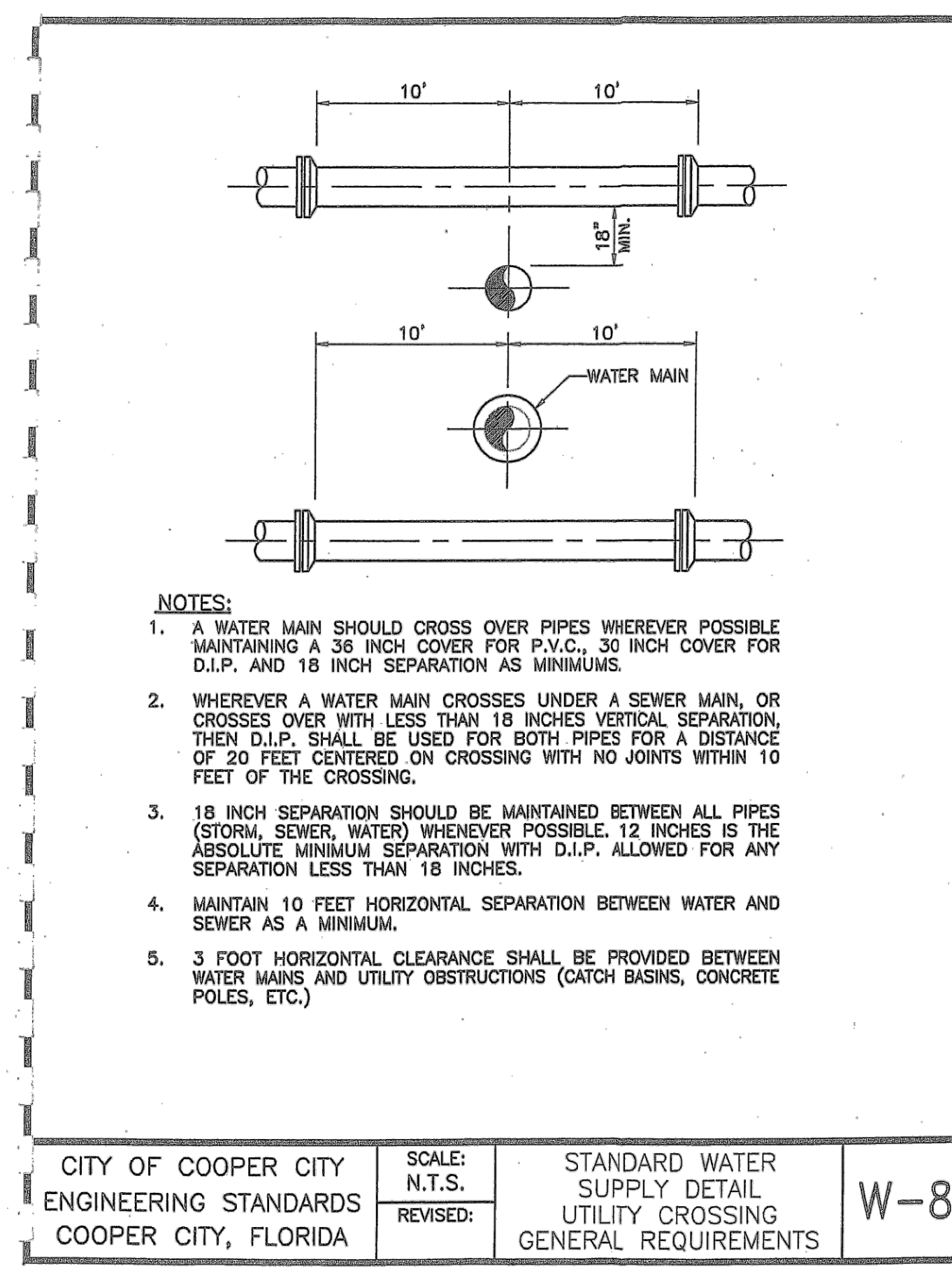
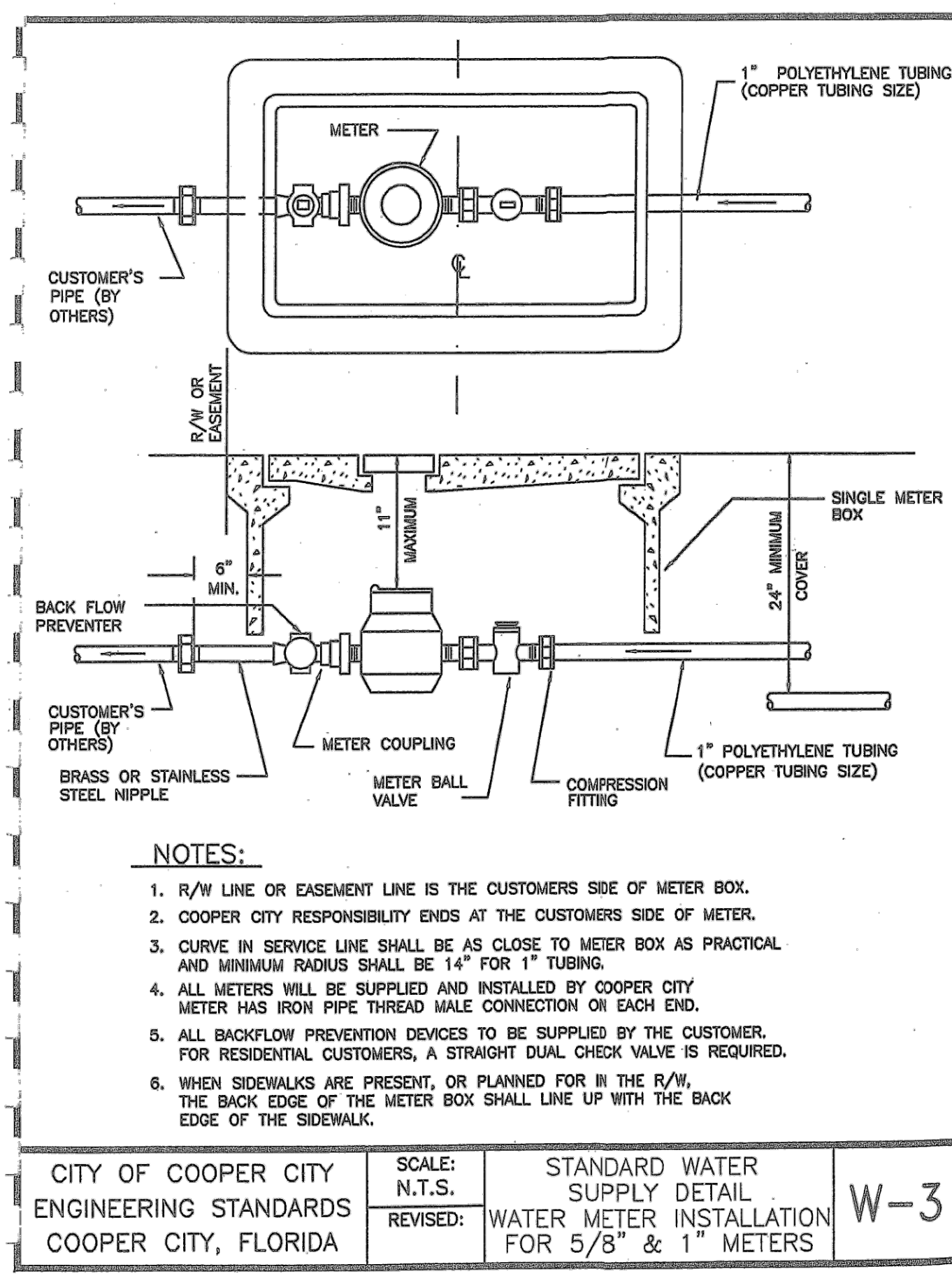
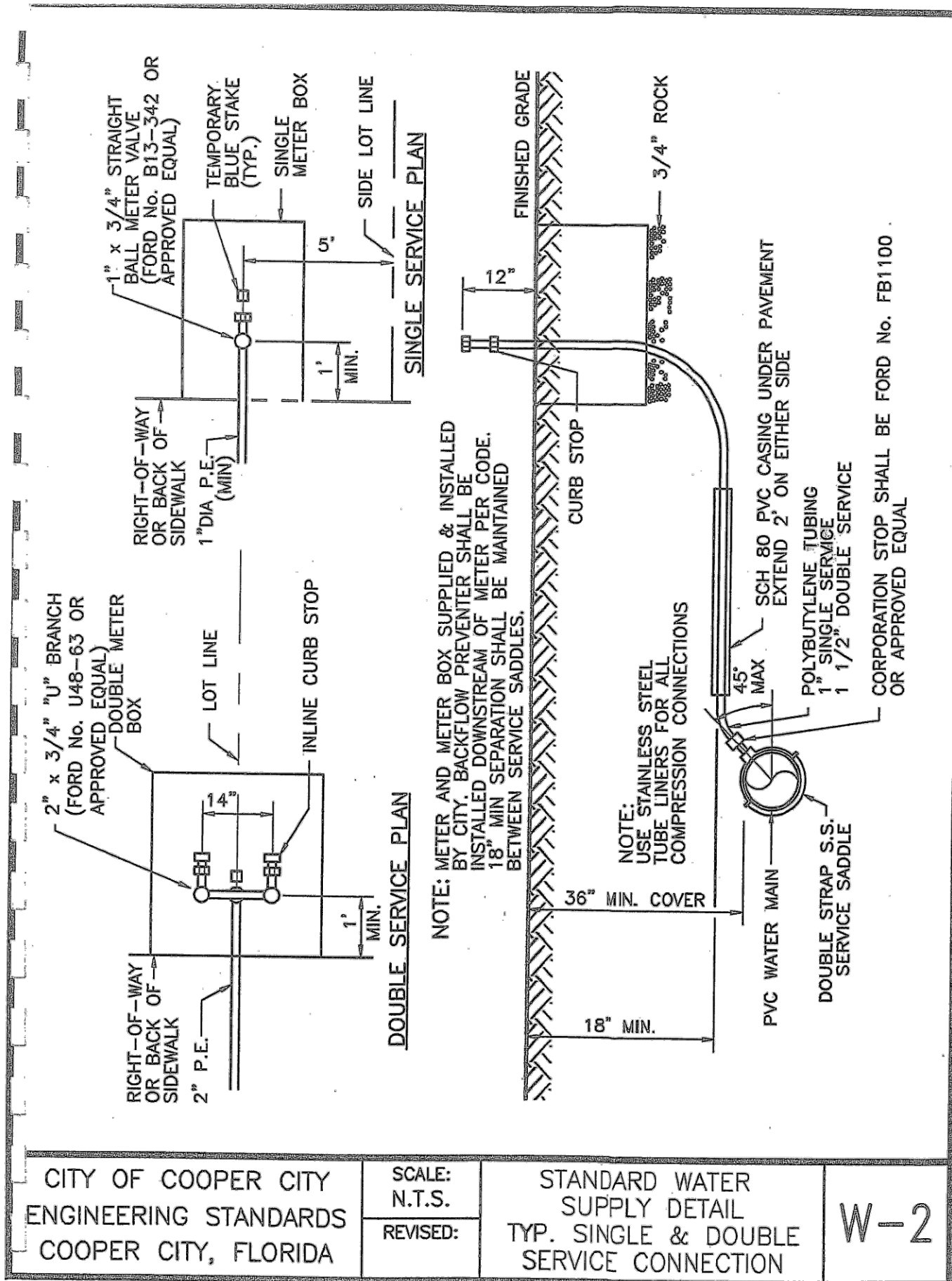
DR: N/A ER: WDH  
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**WATER AND SEWER PLAN**

SOMI NO. 24001 FPL NO.  
SHEET 1 OF 3  
**E-SHE06**

REV NO.  
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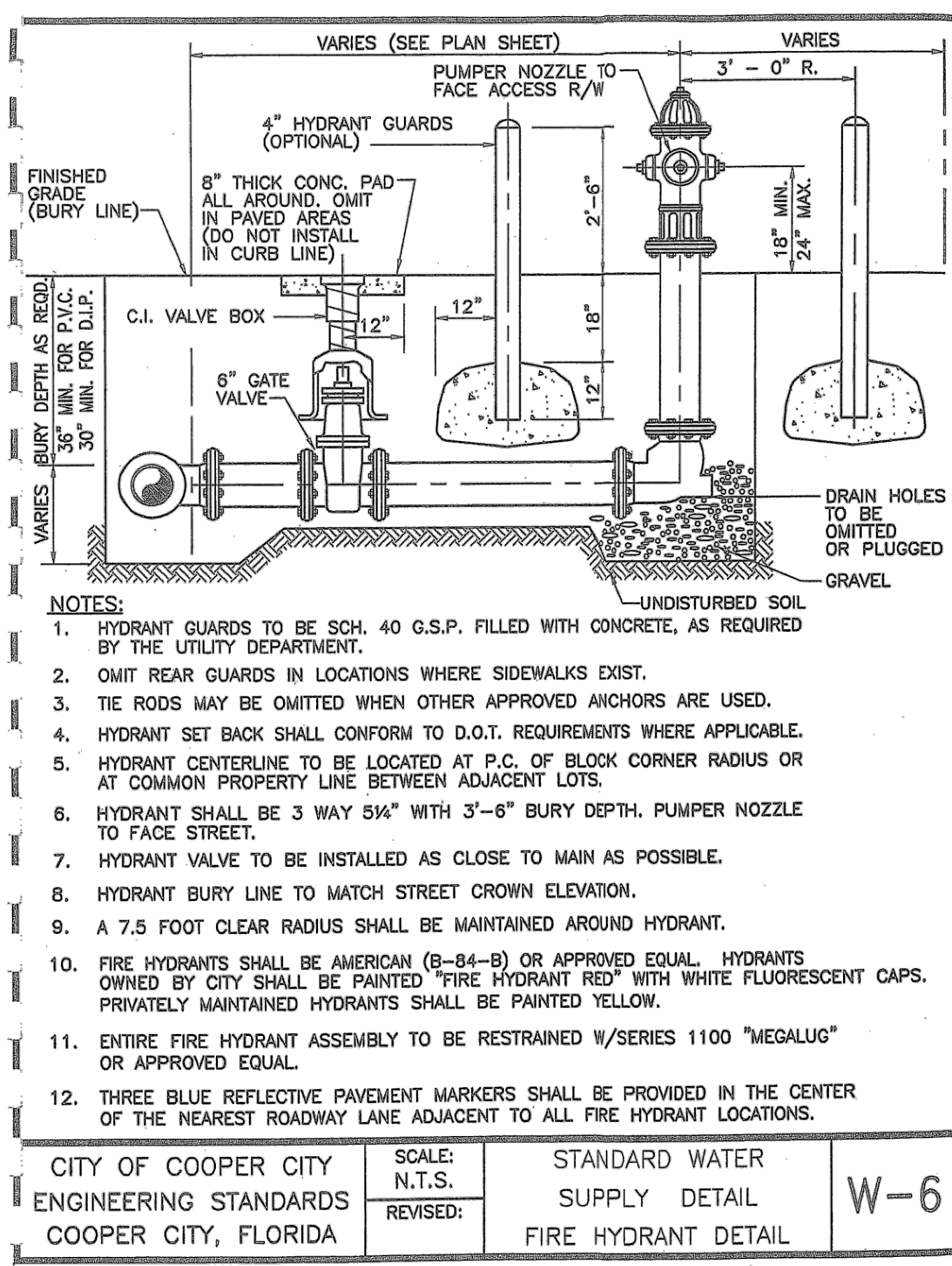
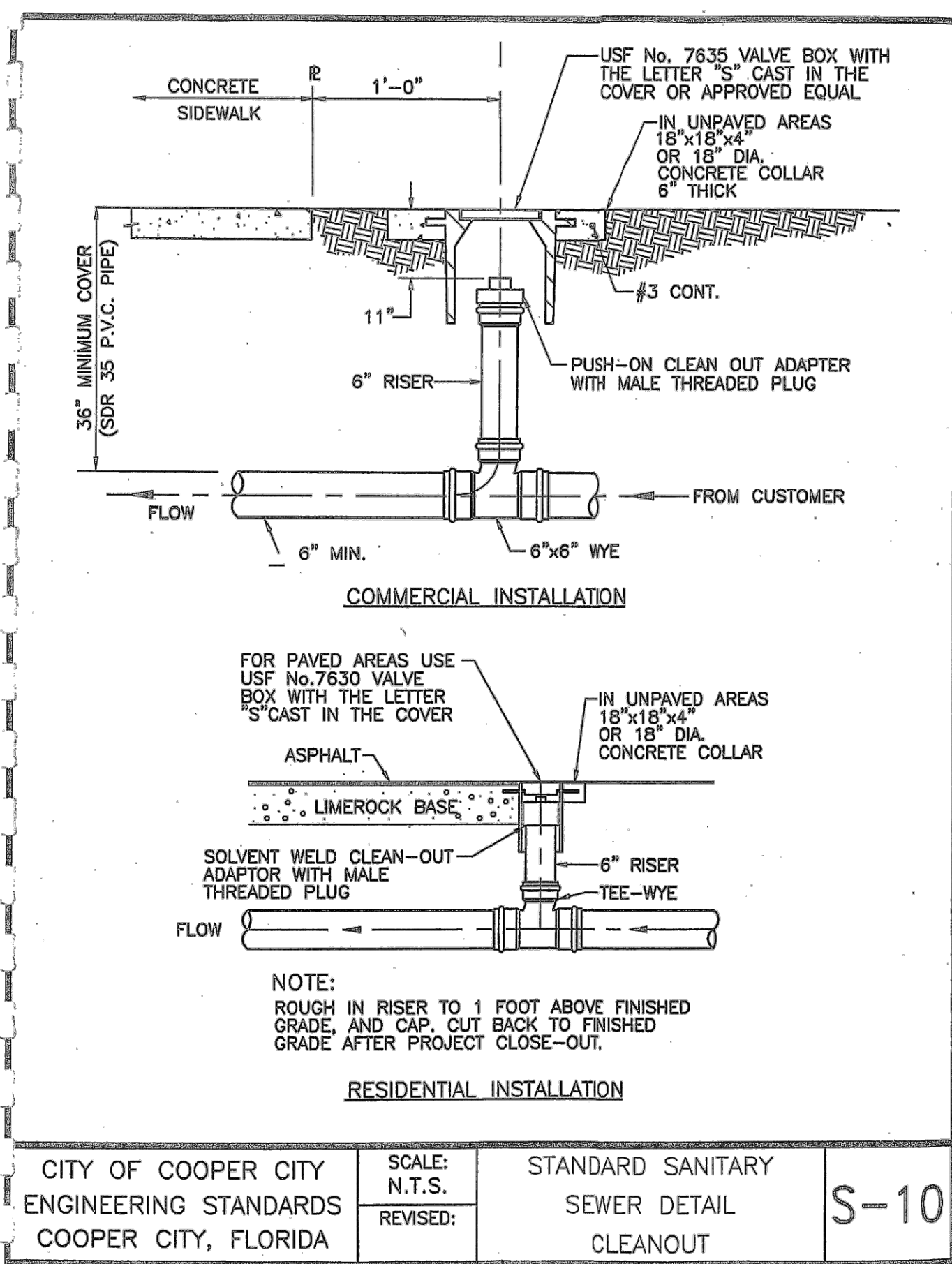


Revised October 2022

Revised October 2022

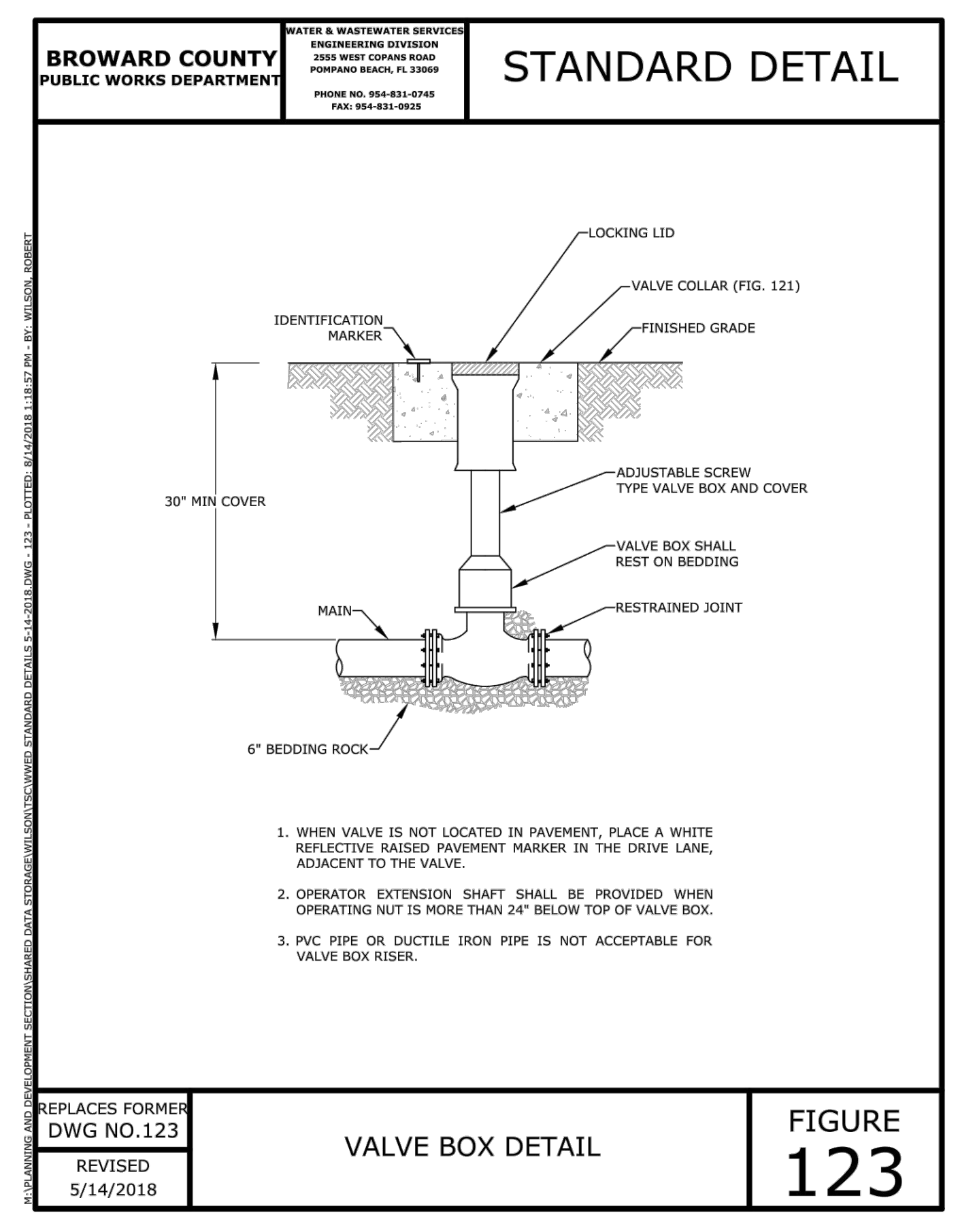
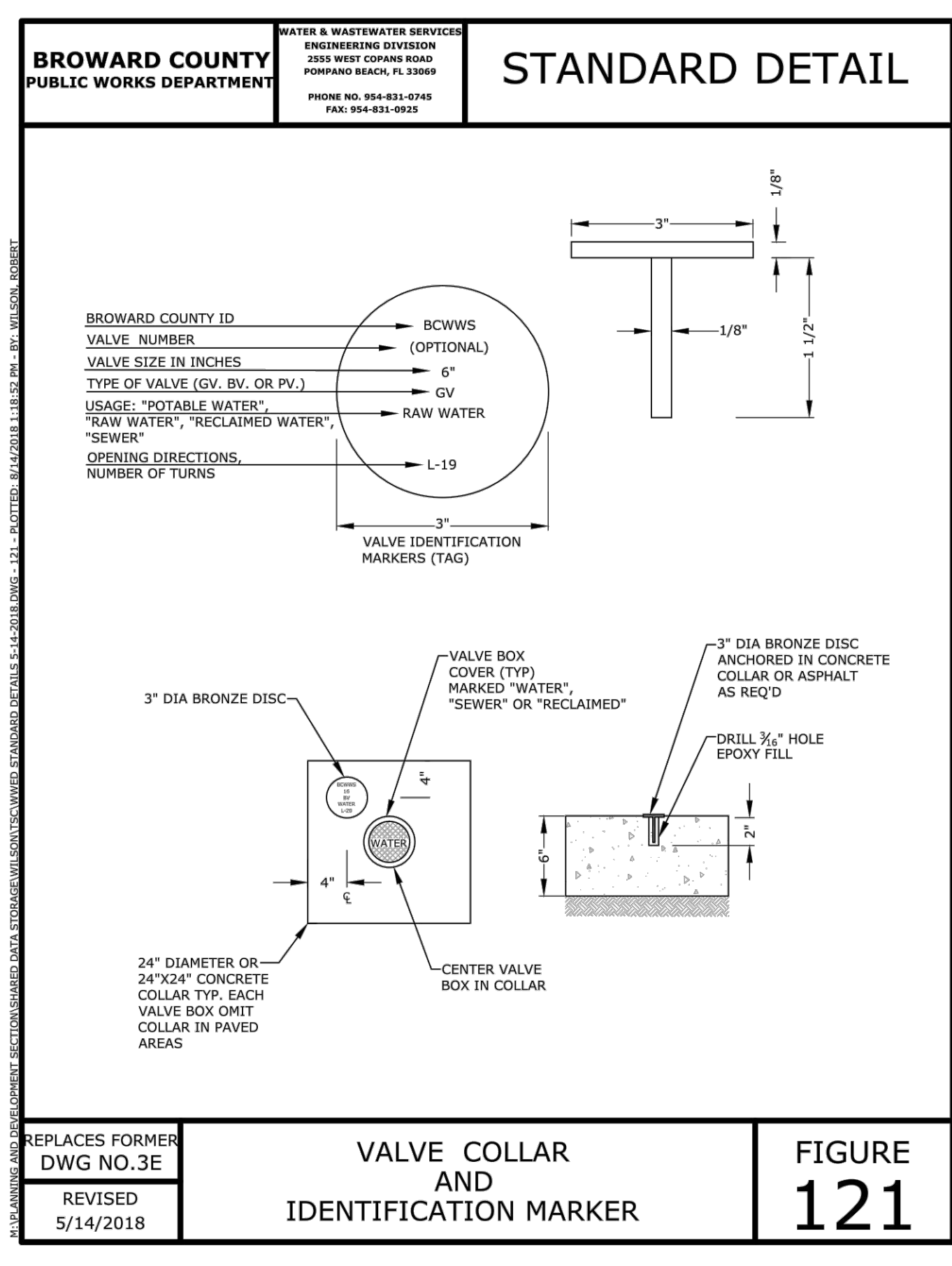
Revised October 2022

Revised October 2022



Revised October 2022

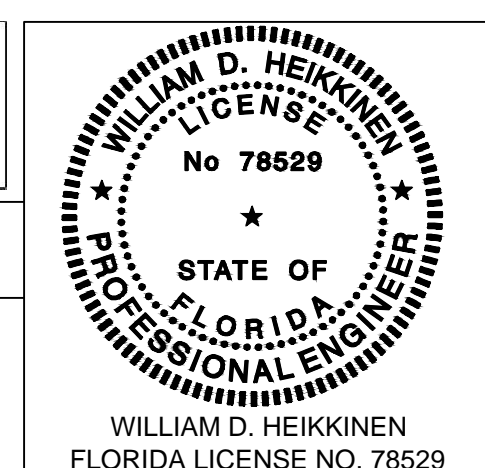
Revised October 2022



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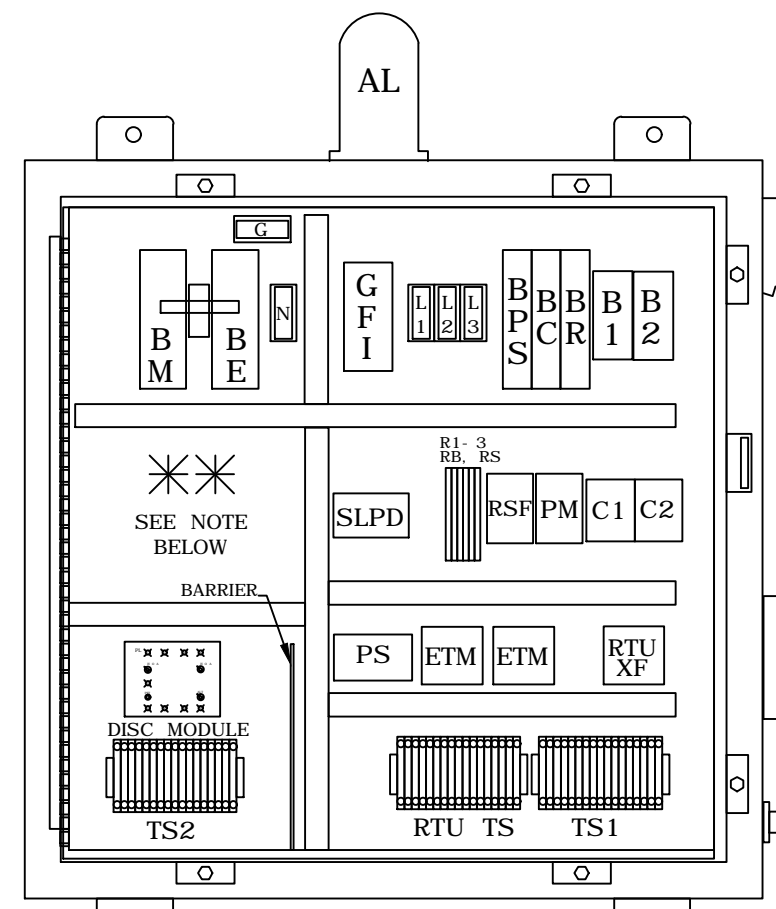




CONTROL CENTER DESIGNED & MANUFACTURED TO MEET ALL D.E.P. REQUIREMENTS

### MOPS CONTROL CENTER

SEE SCHEDULE FOR ELECTRICAL SERVICE REQUIREMENTS



INTERIOR LAYOUT (DOOR NOT SHOWN FOR CLARITY)

#### PANEL COMPONENTS

- AL ALARM LIGHT
- ALT ALTERNATOR (ON DISC)
- AS ALARM SILENCE SWITCH
- B1-2 MOTOR BREAKERS
- BC CONTROL BREAKER
- BE EMERGENCY BREAKER
- BM MAIN BREAKER
- BPS POWER SUPPLY BREAKER
- BR RECEPTACLE BREAKER
- C1-2 CONTACTOR, MOTOR START
- GFI CONVENIENCE RECEPTACLE
- DISC DISC
- ETM ELAPSED TIME METER
- G GROUND BLOCK
- GR GENERATOR RECEPTACLE
- H HORN
- HOA HAND-OFF-AUTO SWITCH (ON DISC)
- N NEUTRAL BLOCK
- PL PILOT LIGHT (ON DISC)
- PM PHASE MONITOR
- PS POWER SUPPLY
- R1-3 RELAYS
- RB BATTERY RELAY
- RS SILENCE RELAY
- RSF SEAL FAIL RELAY
- RTUXF RTU TRANSFORMER
- SLPD SURGE/LIGHTNING PROTECTION DEV.
- TS1 TERMINAL STRIP FOR PUMPS
- TS2 TERMINAL STRIP FOR FLOATS

#### ENCLOSURE

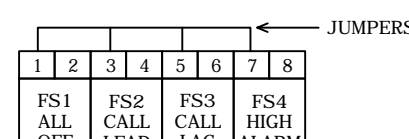
NEMA 4X Stainless Steel  
Single Door w/ Padlock Hasp  
30" H x 30" W x 8" D

#### NOTES:

- PANEL LABELED FOR U.L. 508A "MOTOR CONTROL CENTERS" AND U.L. 698A "HAZARDOUS LOCATION PANELS" (INTRINSICALLY SAFE)
- COMPLETE BACK-UP, SELF-CHARGING BATTERY, WITH VISUAL/AUDIO ALARM SYSTEM PER RSWF-45.
- SEE CONTROL CENTER DETAIL SHEET FOR ANY ADDITIONAL NOTES.

27	NEU	120V	RTU	PUMP	MOTOR	MOTOR	MT1	MT2	G	N	D
28	NEU	120V	RTU	PUMP	MOTOR	MOTOR	MT1	MT2	G	N	D

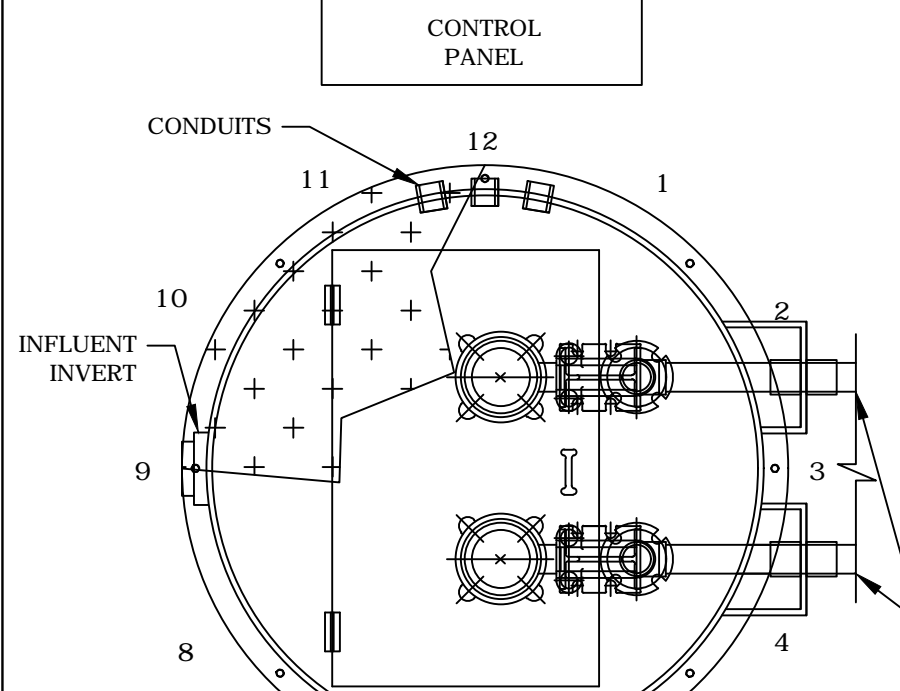
TS1 TERMINAL SCHEDULE



TS2 TERMINAL SCHEDULE

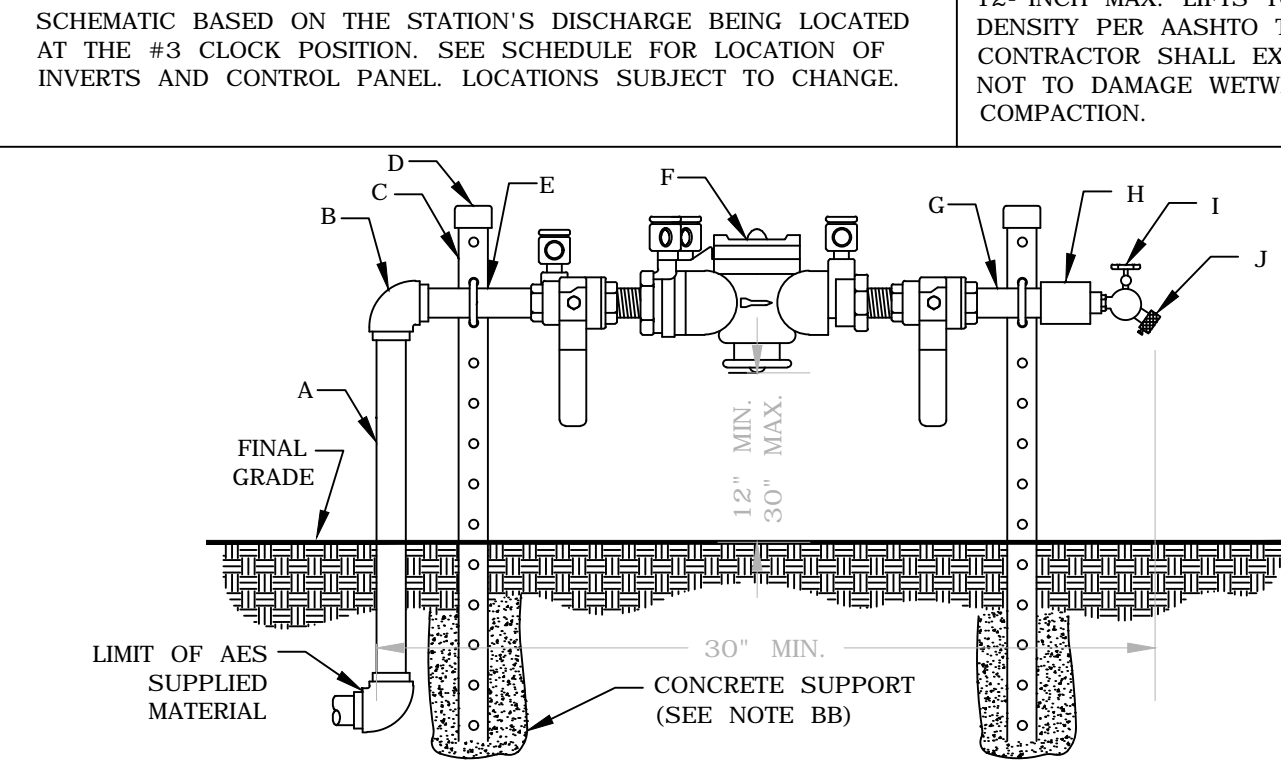
✱ THIS SPACE AVAILABLE FOR CAPACITORS FOR SINGLE PHASE OR TRANSFORMER FOR 460V.

#### HUB AND INVERT LOCATION



ITEMS	CLOCK POSITION
DISCHARGE LINES	3:00
PRIMARY INVERT	9:00
SECONDARY INVERT	N/A
LOCATION OF CONTROL PANEL	12:00

NOTE: BACKFILL AROUND LIFT STATION FROM ANTI-FLOATATION RING UP TO FINISHED GRADE SHALL BE COMMON FILL COMPACTED IN 12" INCH MAX. LIFTS TO 98% DENSITY PER AASHTO T-180. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE WETWELL DURING COMPACT.



ITEM	QTY.	DESCRIPTION
A	1	3/4" x 36" S.S. NIPPLE
B	1	3/4" S.S. 90° ELBOW
C	2	1-5/8"x1-5/8"x40" ALUM. SUPPORT BRACKET
D	2	SUPPORT BRACKET CAPS P/N 2149
E	2	3/4" S.S. PIPE BOLTS

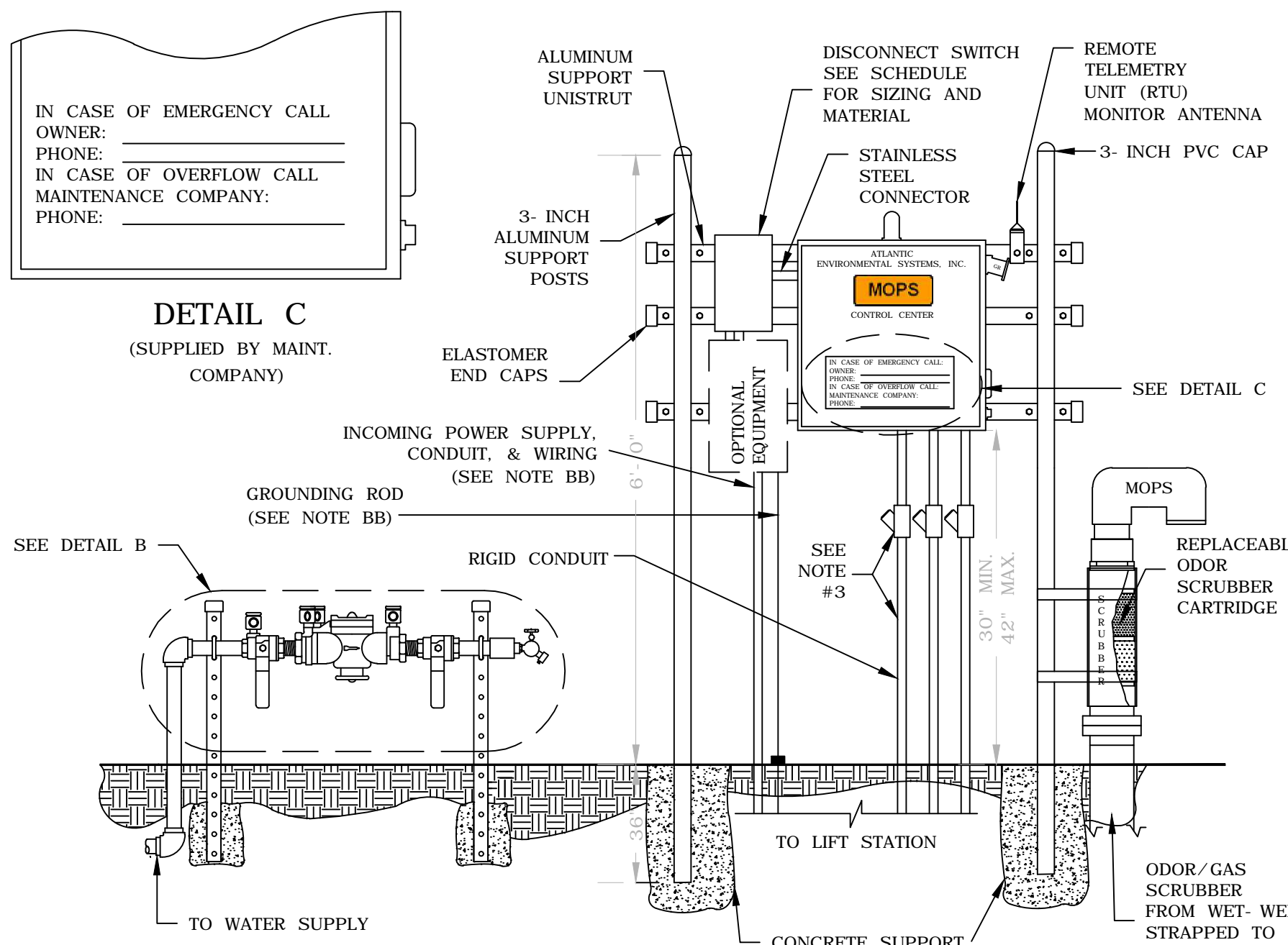
ITEM	QTY.	DESCRIPTION
F	1	3/4" APP. BACKFLOW PREVENTER
G	2	3/4" x 3" S.S. NIPPLE
H	1	3/4" x 3/4" S.S. COUPLING
I	1	3/4" BRONZE HOSE BIB
J	1	3/4" VACUUM BREAKER

#### DETAIL B

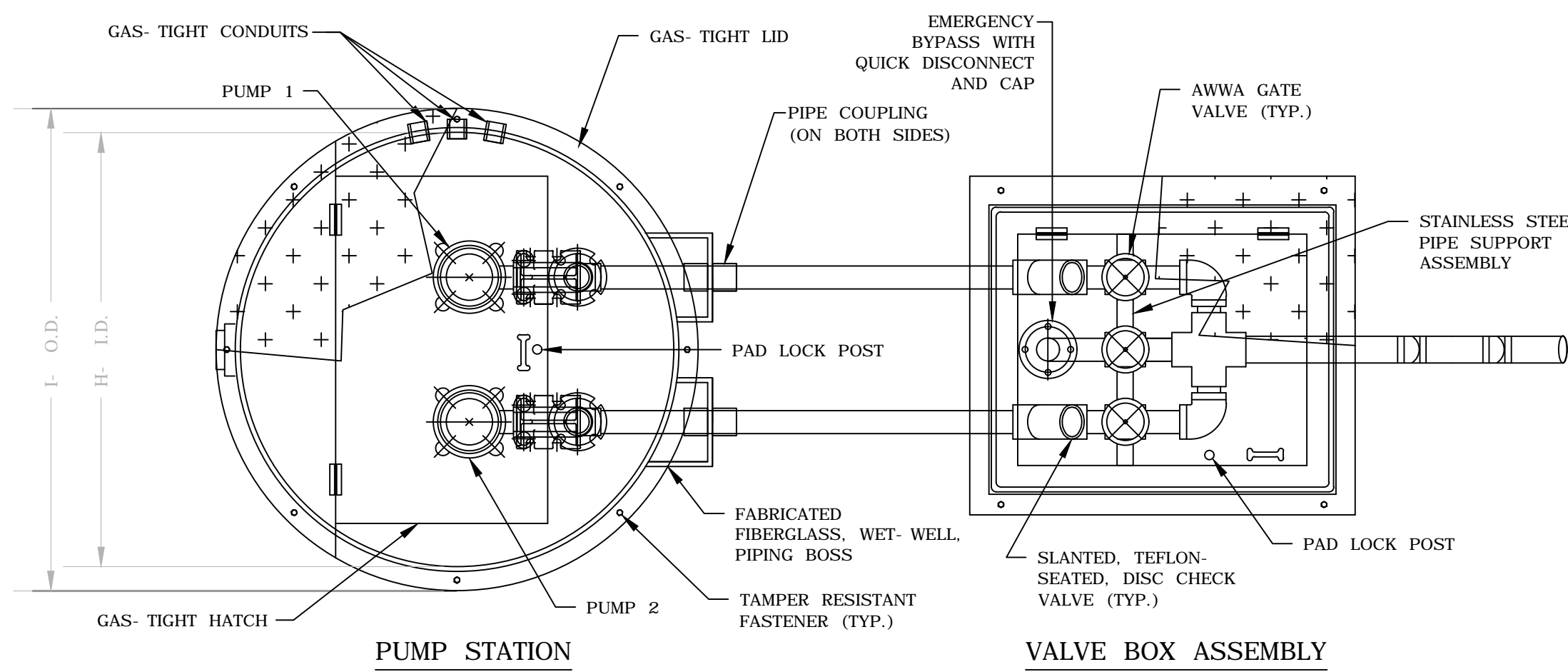
### R.P.Z. BACKFLOW PREVENTER ASSEMBLY DETAIL

U.S.C. AND A.S.S.E. APPROVED

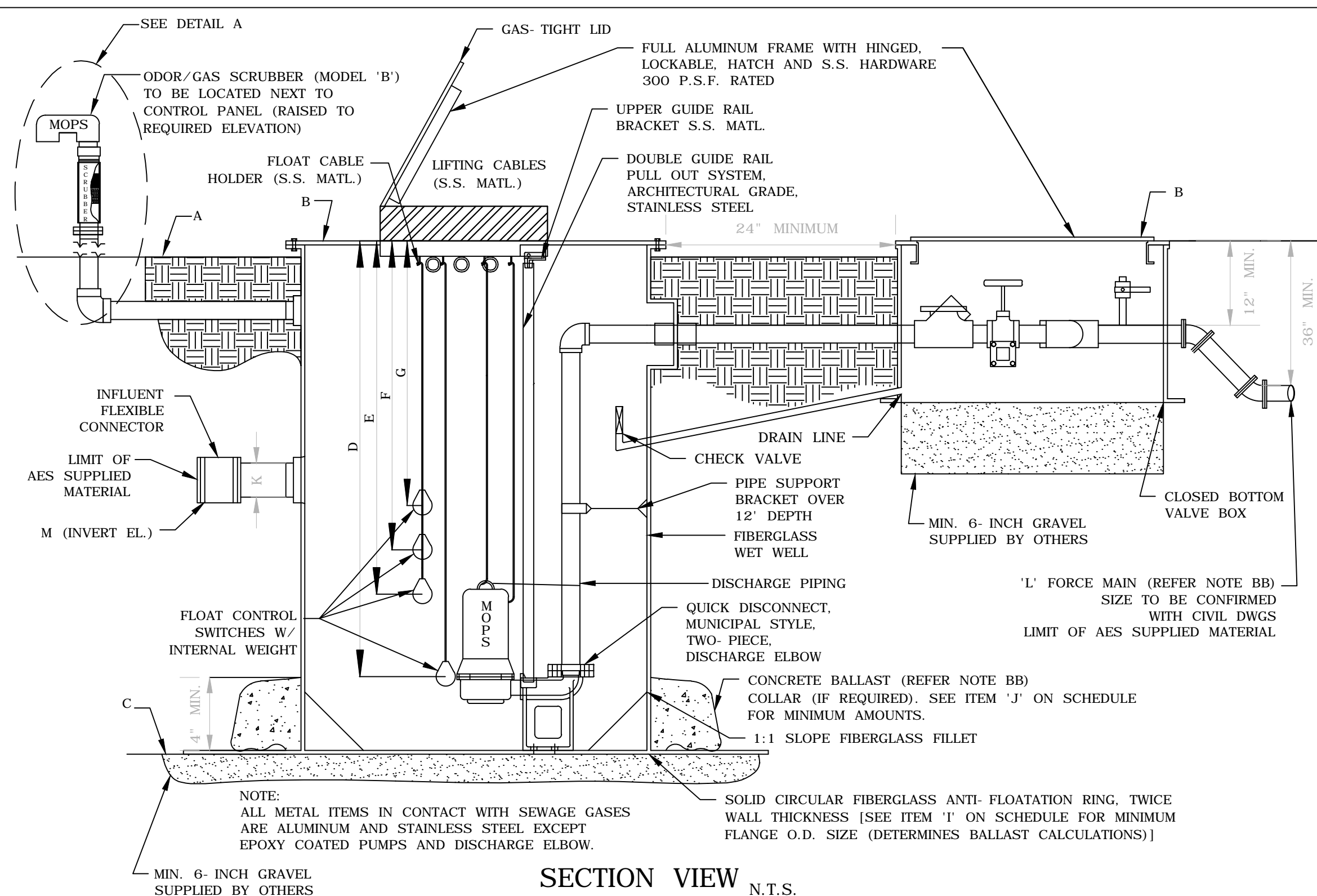
N.T.S.



### CONTROL CENTER ASSEMBLY AND INSTALLATION N.T.S.



#### TOP VIEW N.T.S.



#### SECTION VIEW N.T.S.

# MOPS

## PRIVATE SERIES

MANUFACTURED ODORLESS PUMP STATION  
ATLANTIC ENVIRONMENTAL SYSTEMS, INC.

LAKE WORTH, FL 33461  
PH: (561) 547-8080 FAX: (561) 547-3999 © 2000

THIS DRAWING AND THE DESIGN CONTAINED HEREIN IS PROPRIETARY AND IS AND SHALL REMAIN THE PROPERTY OF ATLANTIC ENVIRONMENTAL SYSTEMS, INC. THIS DRAWING AND DESIGN SHOULD BE USED ONLY FOR THE PURPOSE FOR WHICH IT IS INTENDED, AND ONLY WITH WRITTEN AUTHORIZATION FROM ATLANTIC ENVIRONMENTAL SYSTEMS, INC. ANY REPRODUCTION, IN WHOLE OR IN PART, MUST CLEARLY SHOW THE ATLANTIC ENVIRONMENTAL NAME AND ADDRESS IN THE REPRODUCTION.

### MOPS PUMP STATION SCHEDULE

MOPS SERIES	ITEM DESCRIPTION
INITIAL DESIGN FLOW (G.P.M.)	22
INITIAL DESIGN HEAD (T.D.H.)	123'
SECONDARY DESIGN FLOW (G.P.M.)	42
SECONDARY DESIGN HEAD (T.D.H.)	69'
RATED PERFORMANCE SPEED	3450 RPM
RATED MOTOR HORSEPOWER	7.5
SUBMERSIBLE PUMP TYPE (P-1,P-2)	GRINDER
PUMP MODEL NUMBER	MOPS
SERVICE ENTRANCE VOLTAGE	208
SERVICE ENTRANCE PHASE	3
CONTROL CENTER FULL LOAD AMPS	53
NEMA 3R PAINTED STEEL DISCONNECT SWITCH, RATED AMPS	60
WET WELL SCOURER SYSTEM	N/A
REMOTE STATION MONITOR (TELEMETRY)	W/SA
ON-SITE GENERATOR SYSTEM	N/A

MOPS EQUIPMENT IDENTIFICATION	QTY.	MODEL DESIGNATION
MOPS PUMP STATION	1	B22-4896-C-7.5
MOPS VALVE BOX ASSEMBLY (VBA)	1	VBA-22
MOPS ODOR/GAS SCRUBBER (OGS)	1	OGS-B
MOPS R.P.Z. ASSEMBLY	1	75
MOPS CONTROL CENTER	1	PSC-222-7.5
MOPS DISCONNECT SWITCH	1	FDS-60-3-2-PS
MOPS CONTROL CENTER MOUNTING ASSEMBLY	1	CCMA-32AL
MOPS WET WELL SCOURER SYSTEM	0	N/A
MOPS REMOTE STATION MONITOR	1	PROVIDED WITH SERVICE AGREEMENT
1st YEAR SERVICE/MAINTENANCE CONTRACT	1	LEVEL 1 WITH REMOTE MONITOR
MOPS ON-SITE GENERATOR SYSTEM	0	N/A
MOPS FIELD SERVICE WORK	1	CONTROL INSTALLATION & START-UP

#### MOPS PUMP STATION COMPLIANCE NOTES:

- THIS PUMP STATION DESIGN COMPLIES WITH THE FOLLOWING REQUIRED STANDARDS:
- STATE OF FLORIDA ENVIRONMENTAL PROTECTION STANDARDS
  - FLORIDA ADMINISTRATIVE CODE (F.A.C.): 62-640.400- COLLECTION AND TRANSMISSION SYSTEMS
  - NATIONAL ELECTRIC CODE (NEC) CLASS 1, DIVISION 1, GROUP D- HAZARDOUS LOCATIONS
  - UNDERWRITER'S LABORATORIES (U.L.) 508A- MOTOR CONTROL CENTERS AND U.L. 698A- INTRINSICALLY SAFE CONTROL CENTERS
  - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (2014 EDITION).

- PUMPS ARE RATED BY FACTORY MUTUAL FOR CLASS 1, DIVISION 1, GROUP D ATMOSPHERES AS REQUIRED BY NEC.
- THE CONTROL CENTER INCORPORATES INTRINSICALLY SAFE RELAYS AND IS LISTED TO UL 698A INTRINSICALLY SAFE FOR CLASS 1, DIVISION 1 ATMOSPHERES.
- THE CONDUIT PROVIDED, ALONG WITH CONDUIT GAS-SEAL-OFFS, ARE RATED FOR CLASS 1, DIVISION 1 LOCATIONS.
- THE WASTEWATER PUMPS AND THE CONTROL CENTER INCORPORATE A MECHANICAL SEAL FAILURE DETECTION AND NOTIFICATION SYSTEM.
- THE CONTROL CENTER INCLUDES EITHER A REMOTE TELEMETRY UNIT (RTU) OR A SELF-CHARGING, BACK-UP ALARM SYSTEM TO OPERATE ON POWER FAILURE.
- THE PUMP STATION INCORPORATES AN ODORLESS DESIGN WITH A SCRUBBER SYSTEM TO CONTROL TOXIC GASES AND ODORS FOR COMPLIANCE TO F.A.C. 62-604.400.
- THE BOTTOM OF THE TOP RIM ELEVATION OF PUMP STATION MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 25 YEAR FLOOD ELEVATION. THE LISTED 25 YEAR FLOOD ELEVATION PROVIDED BY SITE CIVIL ENGINEER.
- THE BOTTOM ELEVATION OF THE MOPS CONTROL CENTER MUST BE LOCATED AT A HIGHER ELEVATION THAN THE 100 YEAR FLOOD ELEVATION. THE LISTED 100 YEAR FLOOD ELEVATION PROVIDED BY THE SITE CIVIL ENGINEER.

#### MOPS ENGINEERING NOTES:

- AA. THE HORSEPOWER SHOWN ON THE SCHEDULE IS A MINIMUM HORSEPOWER REQUIREMENT BASED ON THE STATION'S DESIGN CRITERIA AND THE REQUIRE TORQUE. (LOWER RATED HORSEPOWER EQUIPMENT WILL NOT BE ACCEPTABLE.)
  - BB. THESE ITEMS ARE NOT SUPPLIED BY A.E.S. WITH THE MOPS STATION.
  - CC. INVERT ELEVATIONS BASED ON INSIDE BOTTOM OF PIPE.
  - DD. THE MOPS CONTROL ASSEMBLY CONSISTS OF THE FOLLOWING: CONTROL CENTER DISCONNECT SWITCH, MOUNTING ASSEMBLY, ELECTRICAL CONDUITS, AND SEAL-OFF. THESE ITEMS MUST BE SUPPLIED AND INSTALLED BY THE MOPS PUMP STATION MANUFACTURER TO VALIDATE MOPS WARRANTY PROGRAM.
  - EE. FOR STATIONS IN MIAMI-DADE COUNTY, THE MOPS PUMP STATION IS SUPPLIED WITH A REMOTE TELEMETRY MONITORING UNIT AND A.E.S. MAINTENANCE SERVICE. THE R.T.U. ALLOWS FOR MONITORING OF LAG ALARM, HIGH ALARM, AND POWER FAILURE PER CHAPTER 24.42.2(5). THE R.T.U. IS EQUIPPED WITH A BATTERY BACK UP AND IS INSTALLED ABOVE THE 100 YEAR FLOOD ELEVATION.
- THE MOPS WASTEWATER PUMP STATION DESIGN AND EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN REVIEWED, PERMITTED, AND CERTIFIED AS COMPLYING WITH ALL THE STATE OF FLORIDA D.E.P. AND LOCAL REQUIREMENTS. ANY SUBSTITUTION FROM THIS DESIGN MAY REQUIRE NEW PERMITS, APPLICATION FEES, AND ENGINEERING SERVICES FOR RE-CERTIFICATION AND DESIGN REVIEW.

#### P.E. CERTIFICATION:

Bonnie McLeod, P.E., Lic # 70797 V.P. of Engineering  
Atlantic Environmental Systems, Inc., Certificate # 26398  
2244 4th Ave. North, Lake Worth, Florida 33461  
Ph: 561-547-8080 Fax: 561-547-3999

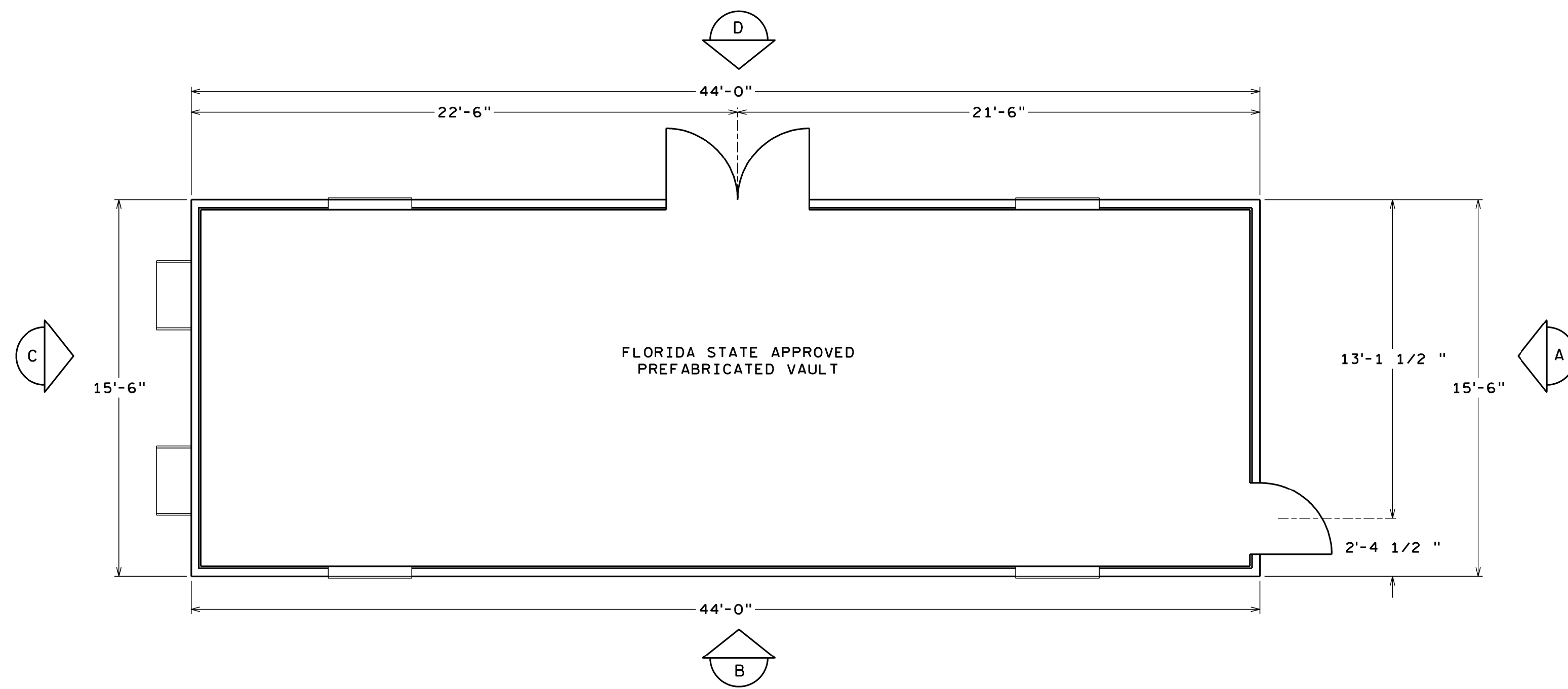
DATE	11/11/11
REVISION	1

Project:	SHERIDAN TRANSMISSION SUBSTATION
Prepared For:	SOMI ENGINEERING
Project No.:	2149
Date:	04/22/2024

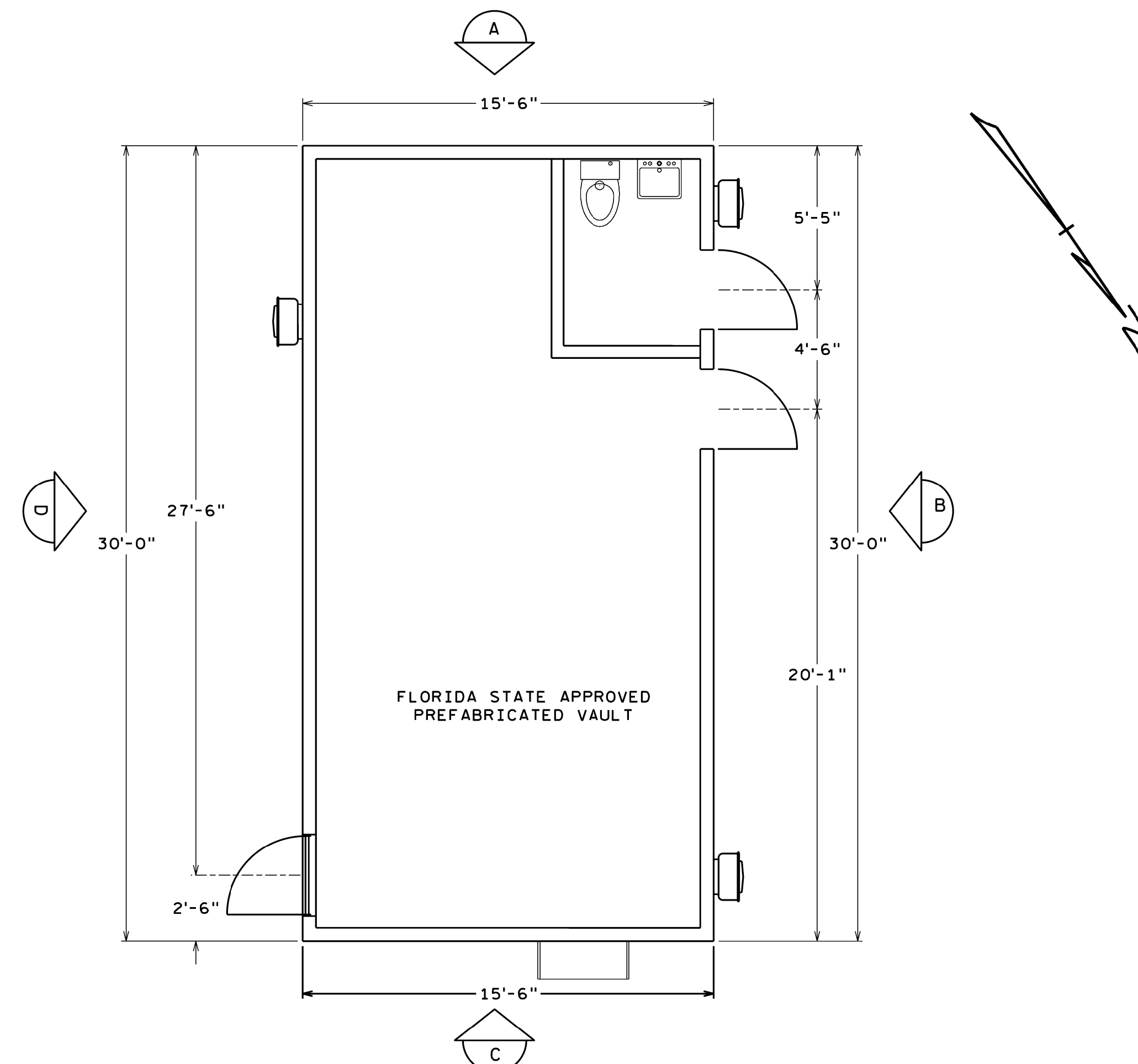
Page No.:	LS-1
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SHERIDAN TRANSMISSION SUBSTATION  
SOMI ENGINEERING  
2332 GALIANO STREET, 2ND FLOOR, CORAL GABLES, FL 33134

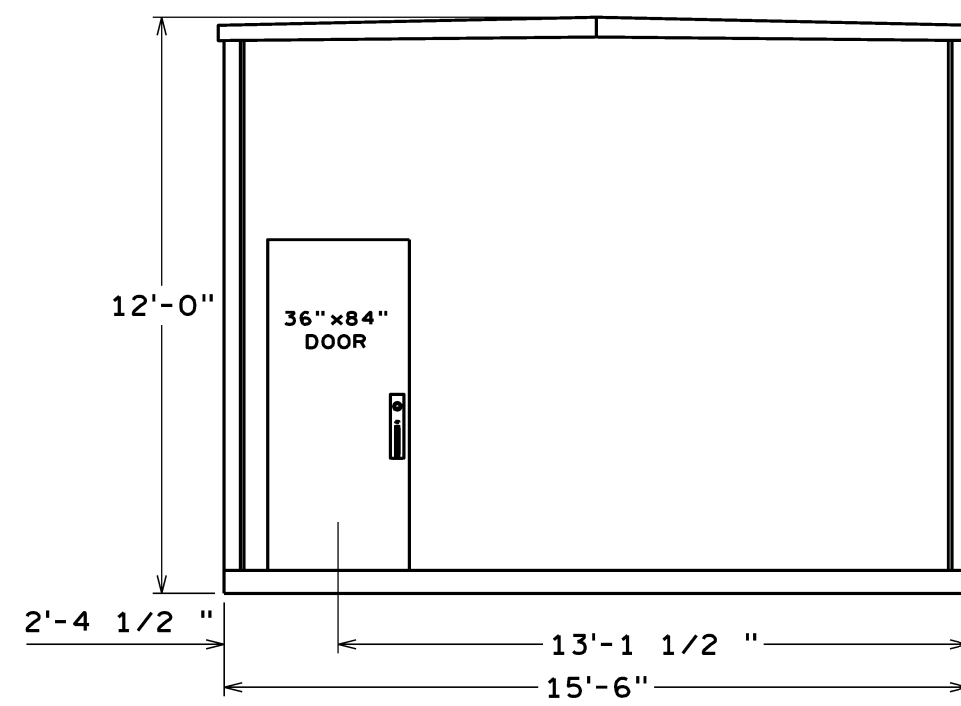




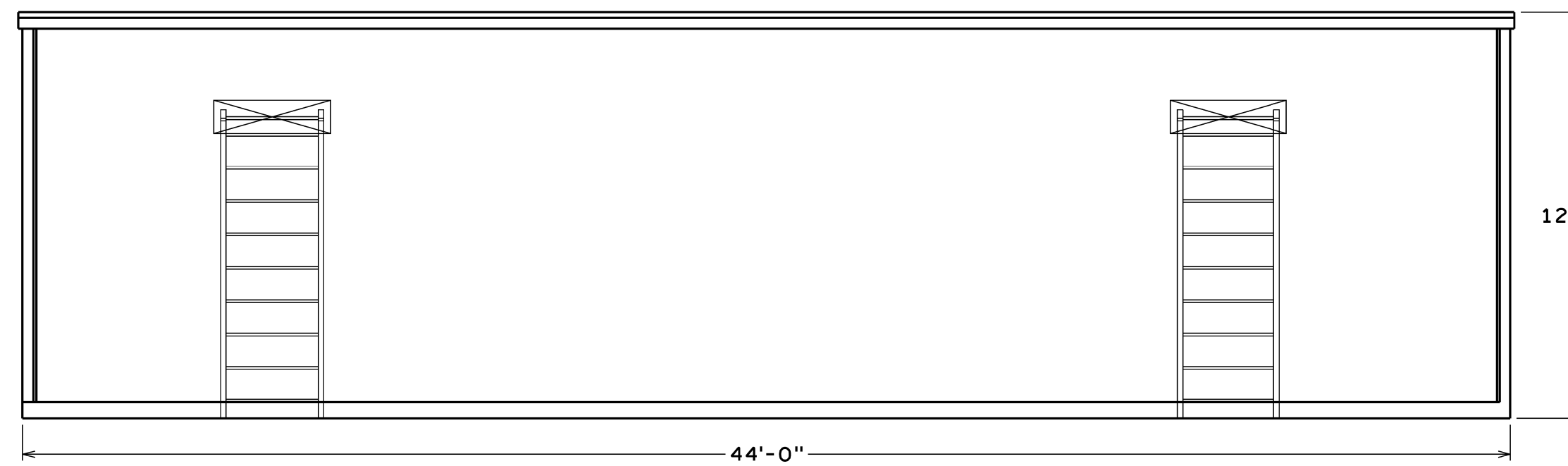
RELAY VAULT PLAN VIEW  
SCALE: 1/4" = 1'-0"



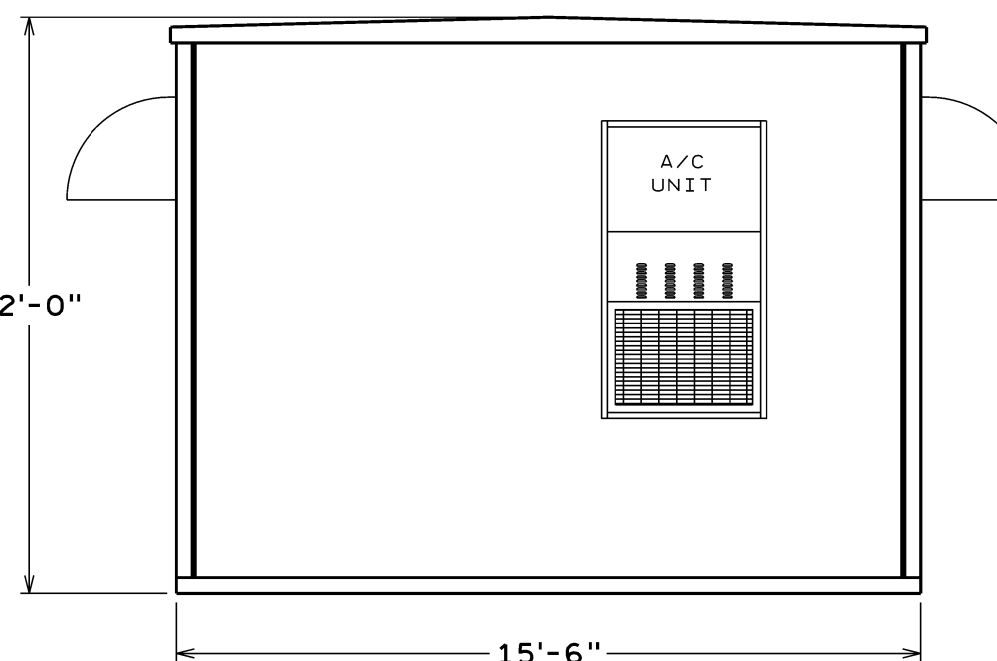
BATTERY ROOM PLAN VIEW  
SCALE: 1/4" = 1'-0"



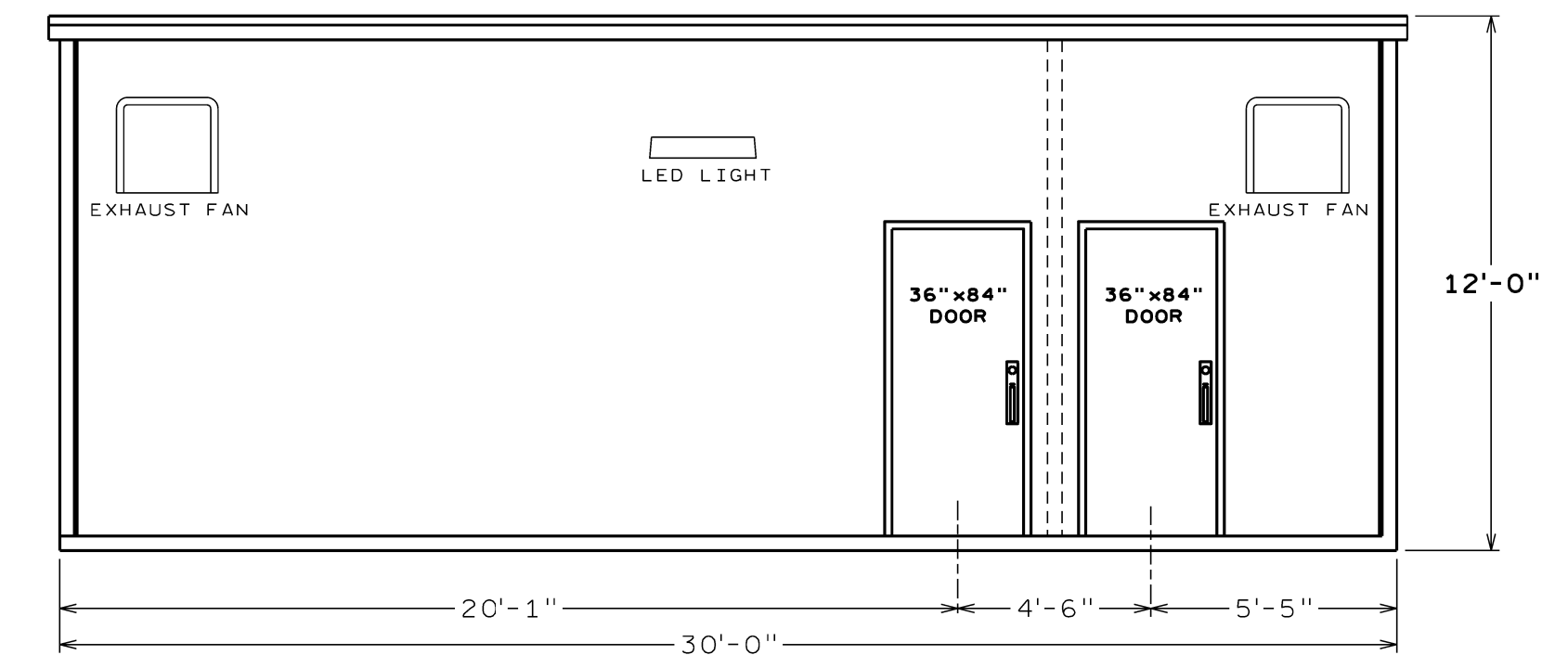
ELEVATION A  
SCALE: 1/4" = 1'-0"



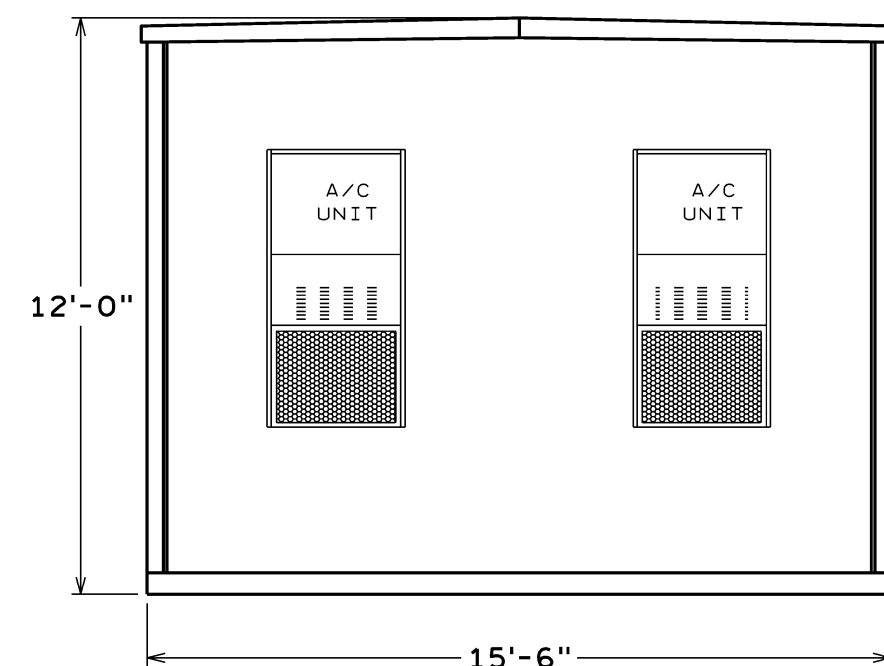
ELEVATION B  
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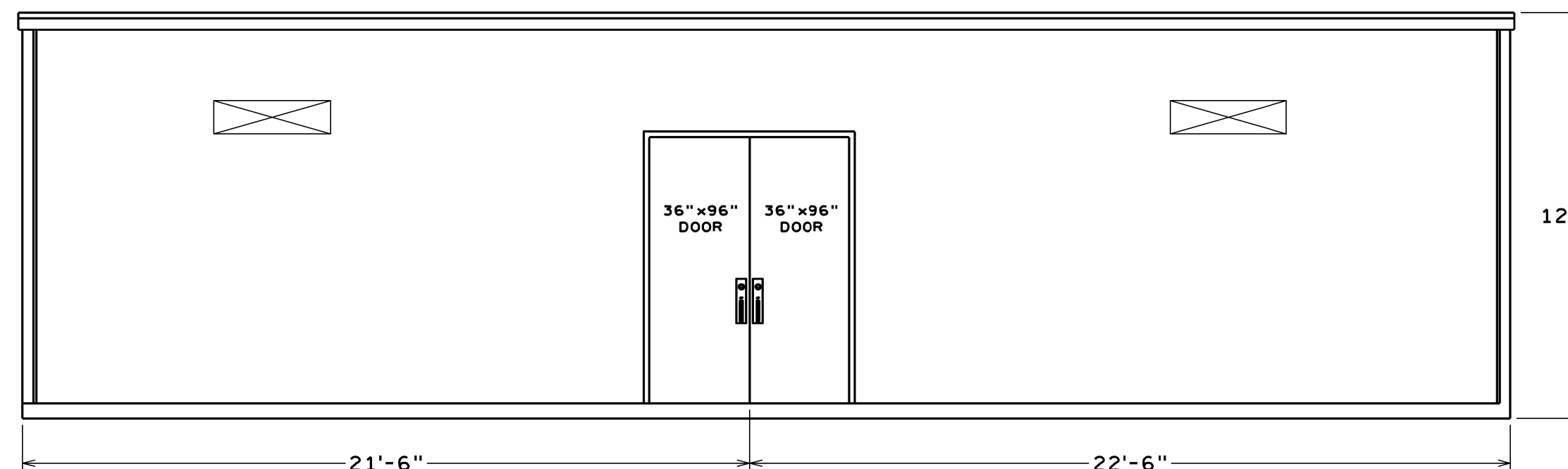
ELEVATION A  
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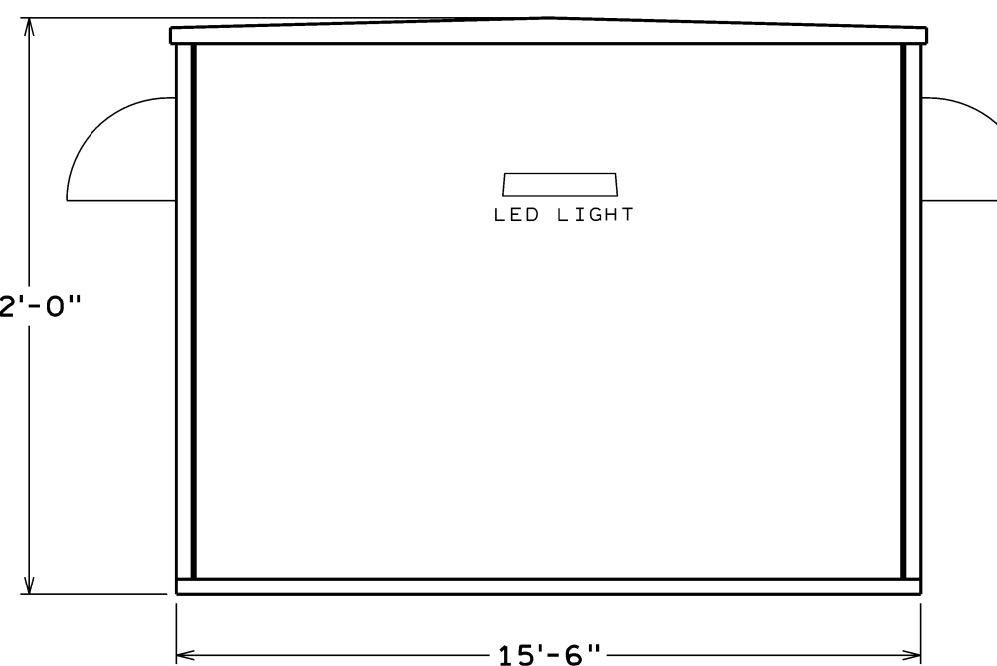
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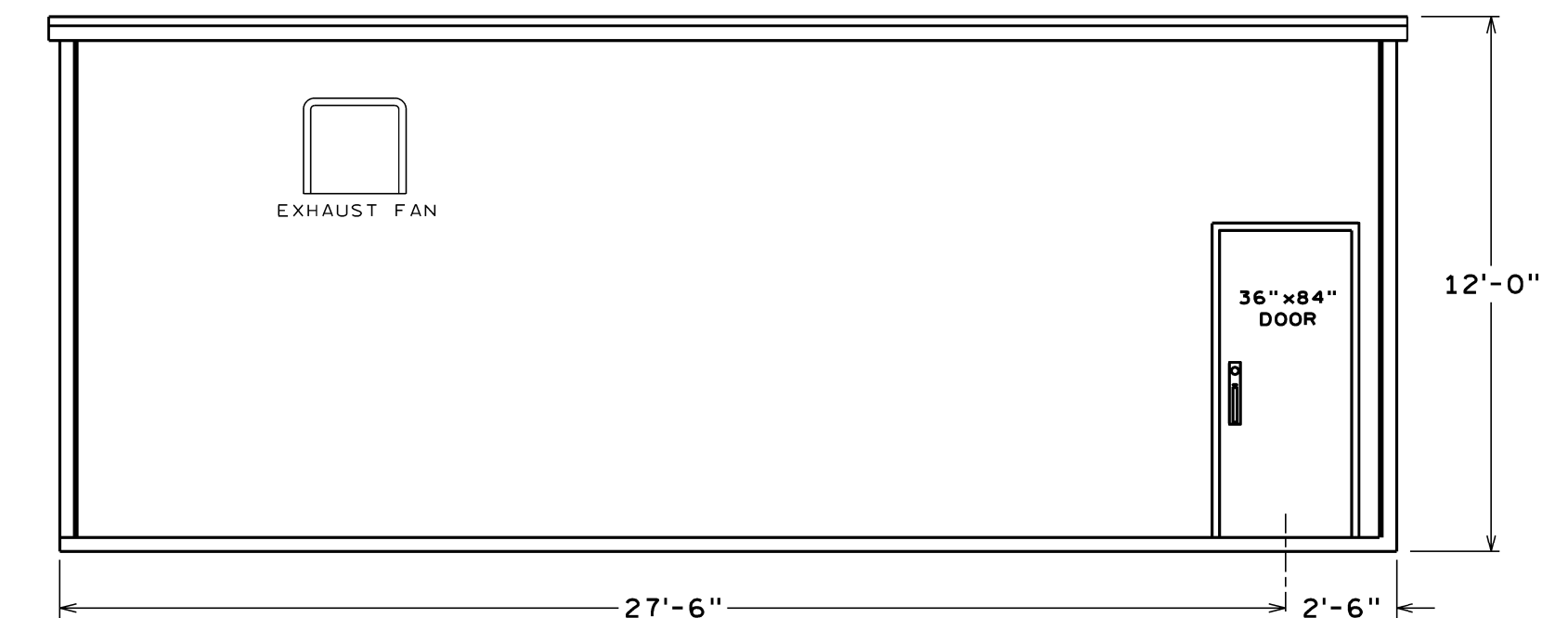
ELEVATION C  
SCALE: 1/4" = 1'-0"



ELEVATION D  
SCALE: 1/4" = 1'-0"



ELEVATION C  
SCALE: 1/4" = 1'-0"



ELEVATION D  
SCALE: 1/4" = 1'-0"

REV	NO	DATE	REVISION	BY	CH	COR	APP

DATE 04-19-24 SCALE 0 AS SHOWN

**POWER DELIVERY**

DR VALENTIN ER  
CH COR  
APPROVED

SHERIDAN TRANSMISSION SUBSTATION  
RELAY VAULT & BATTERY ROOM  
LAYOUT & ELEVATION VIEWS

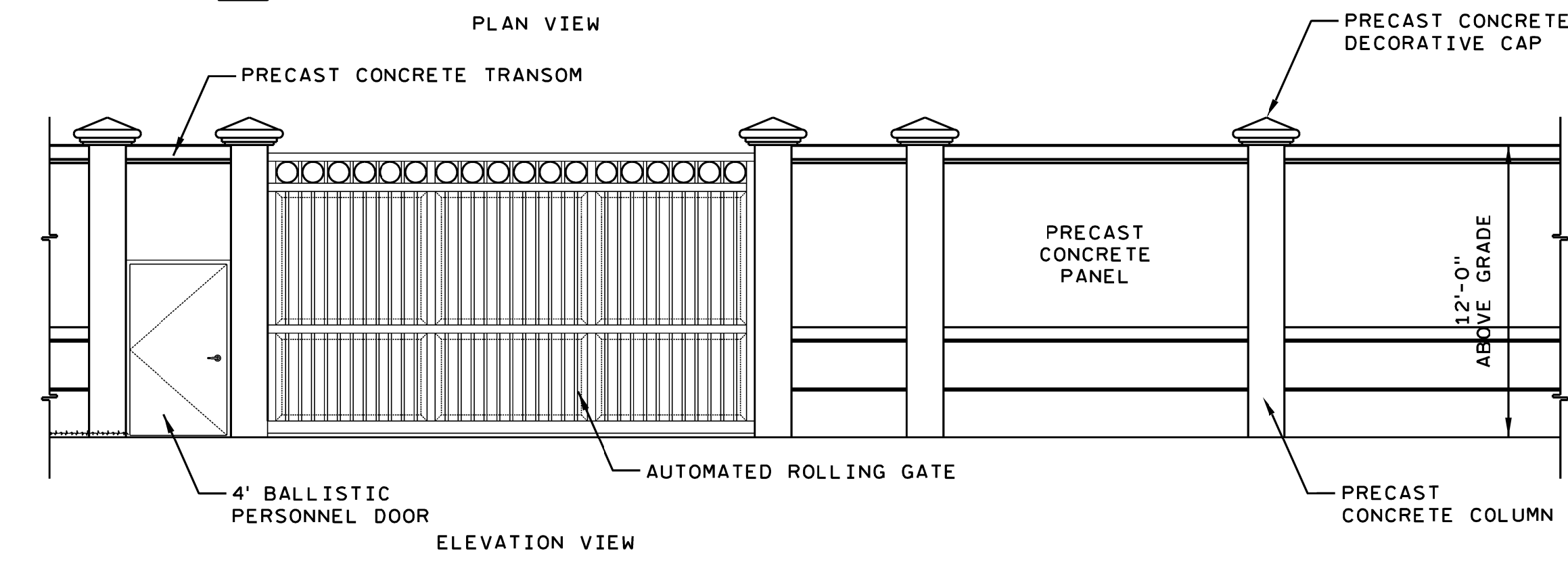
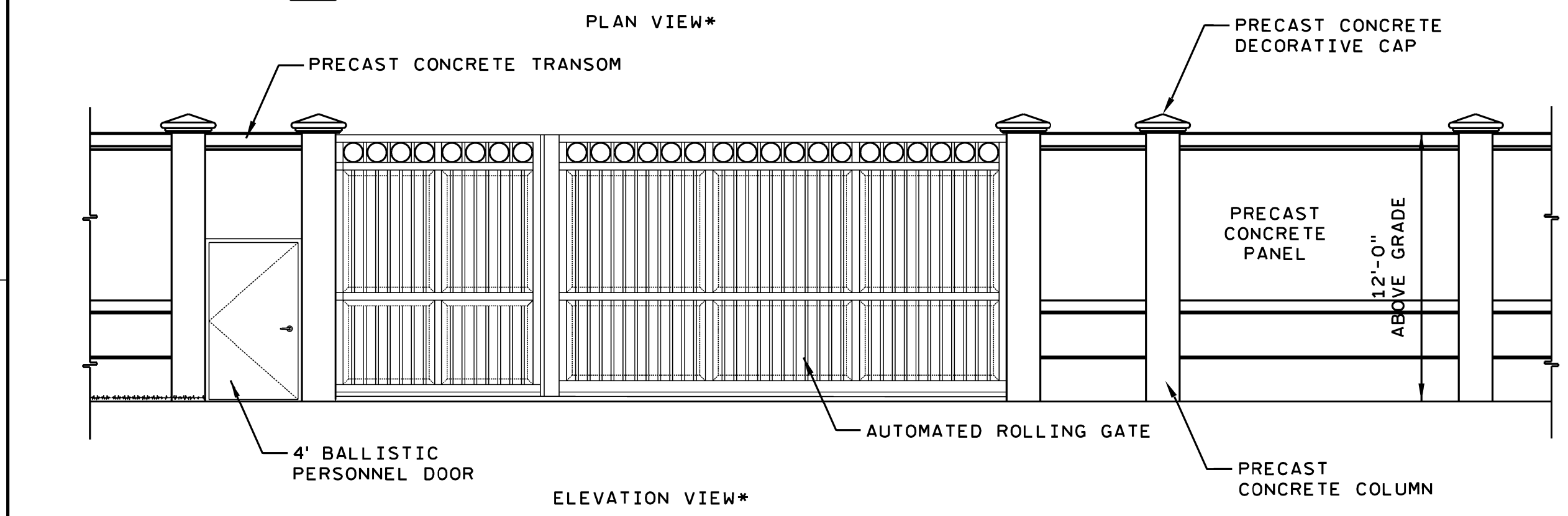
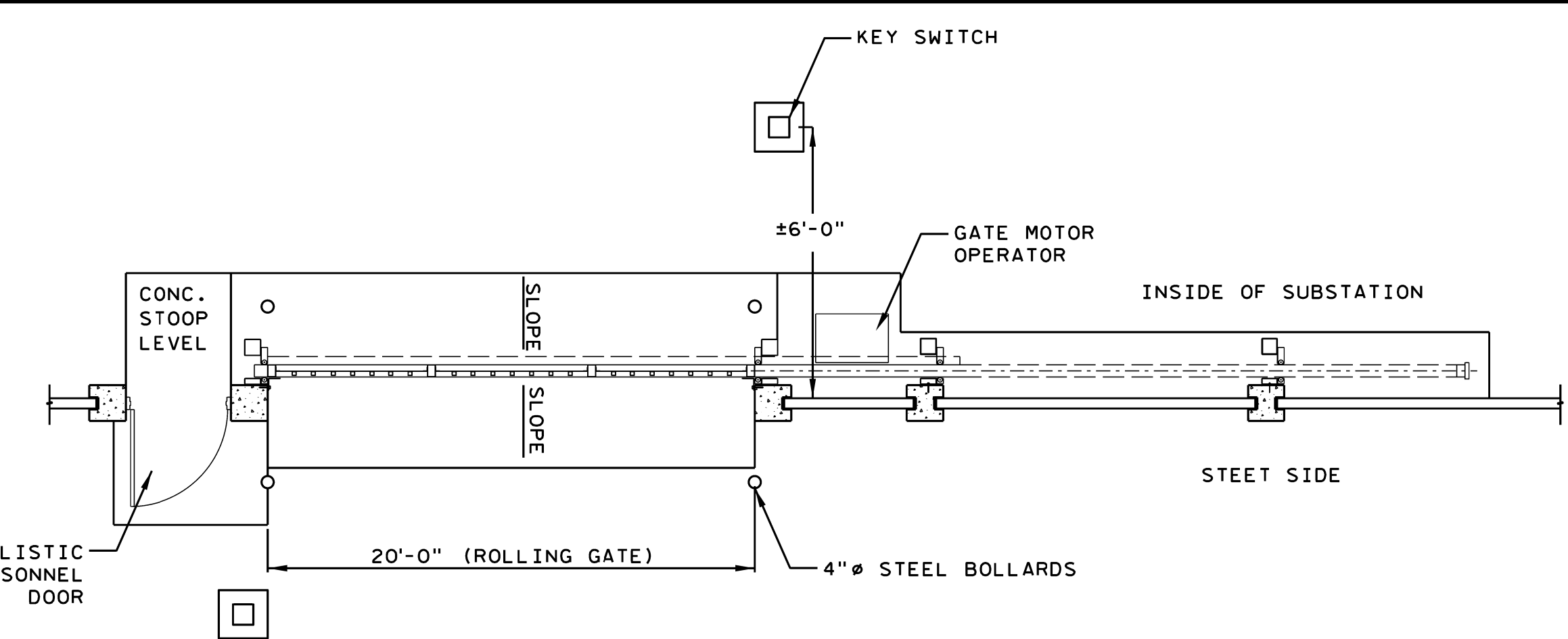
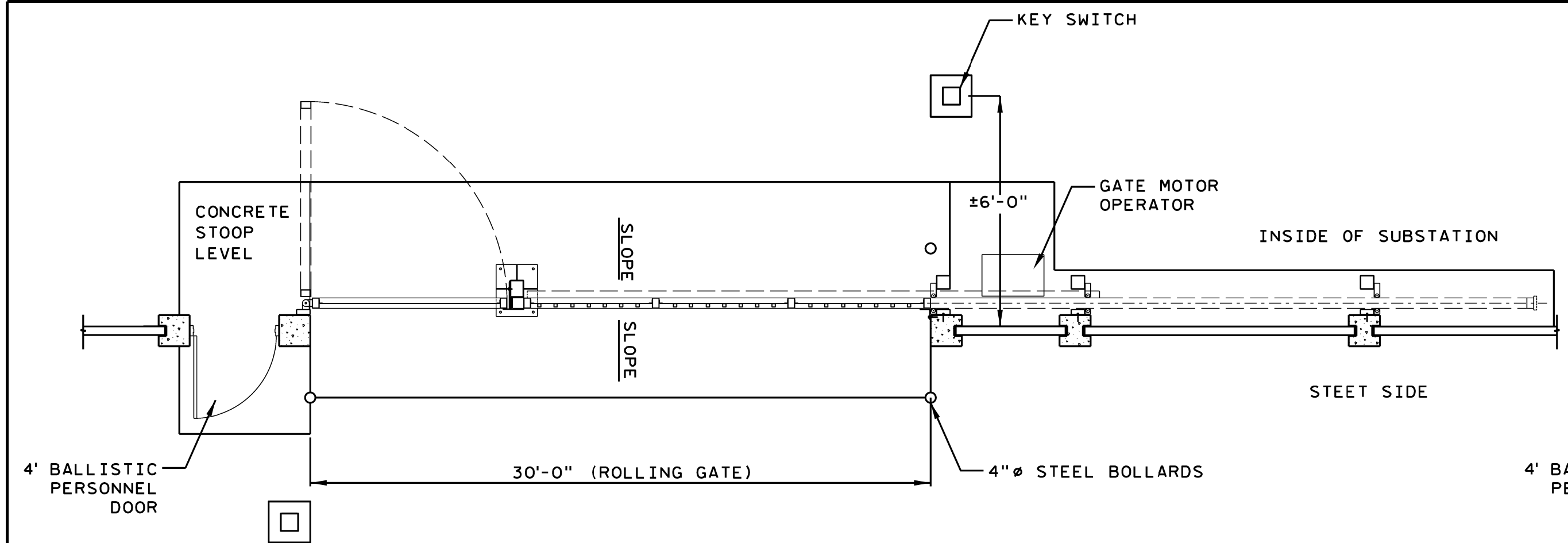
(SU, G, FF)

SHEET 1 OF 1  
**E - SHE31**

REV NO  
ENGINEER'S SEAL



24X36 ENG 6/99

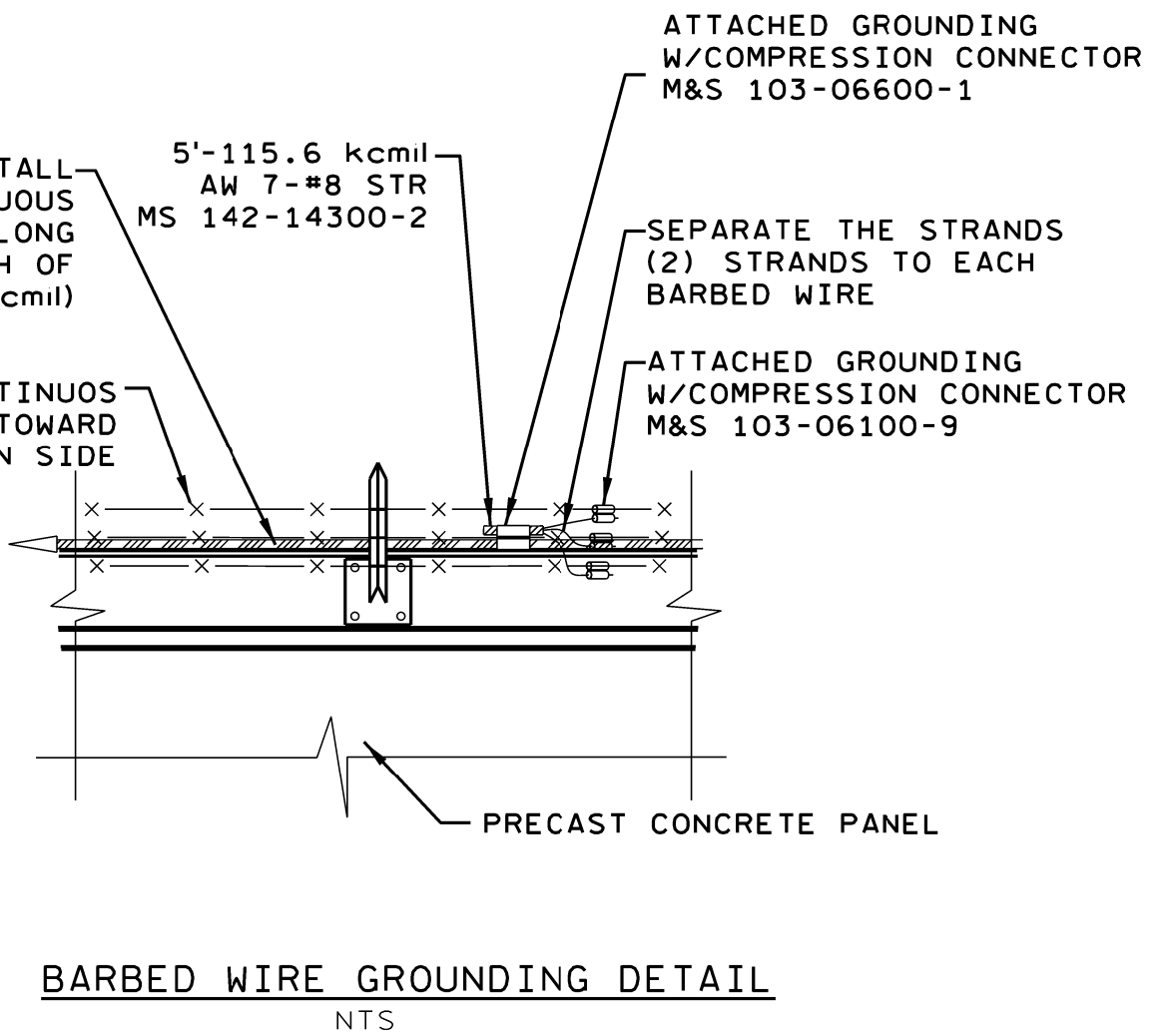
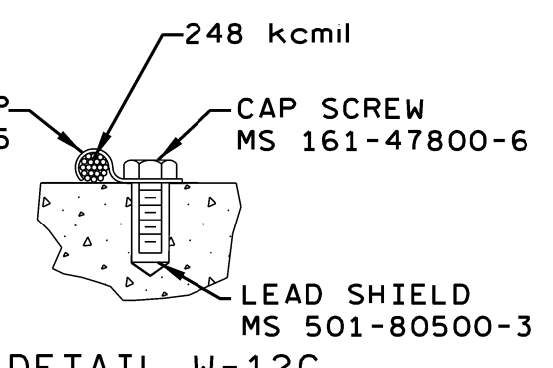
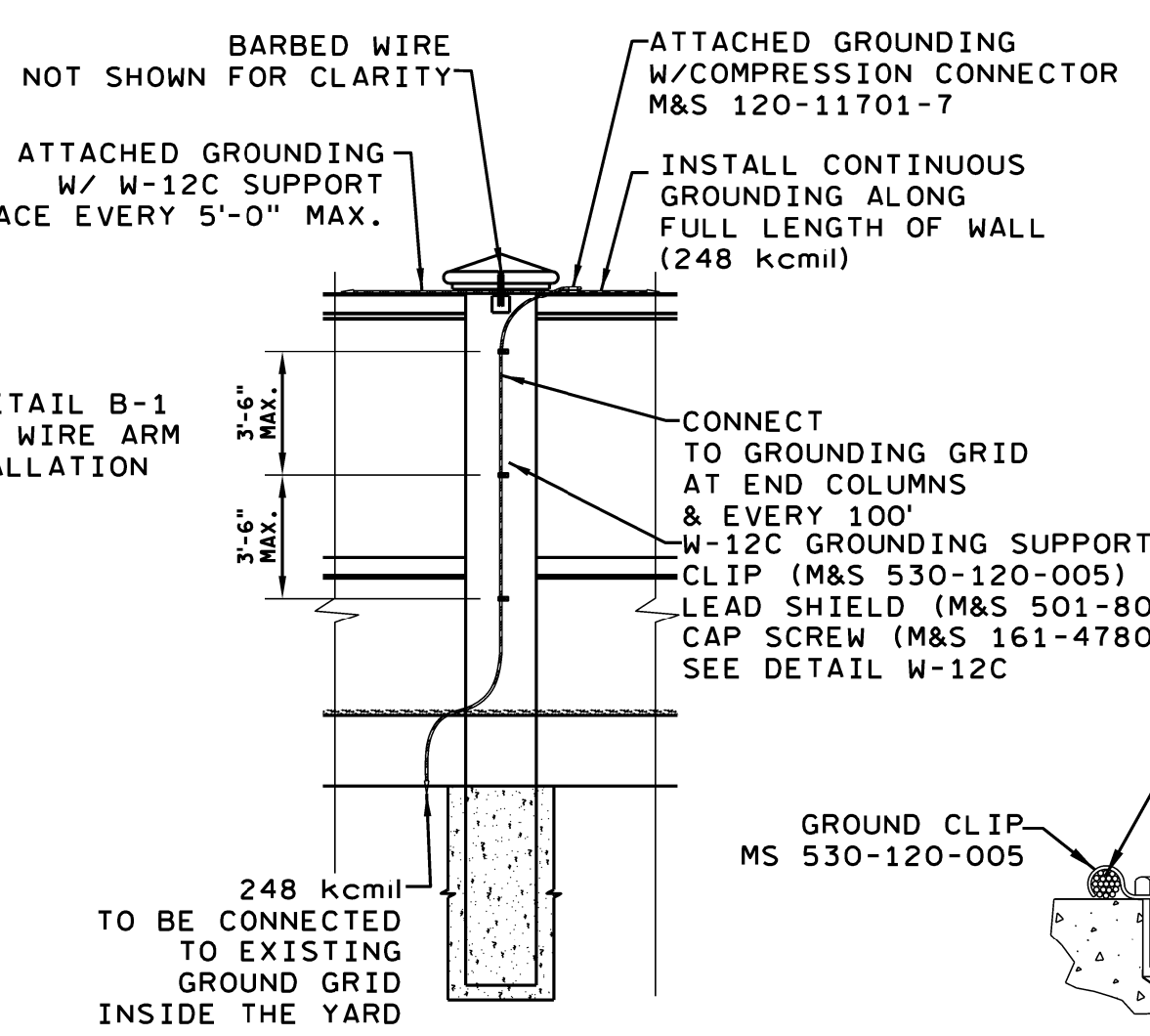
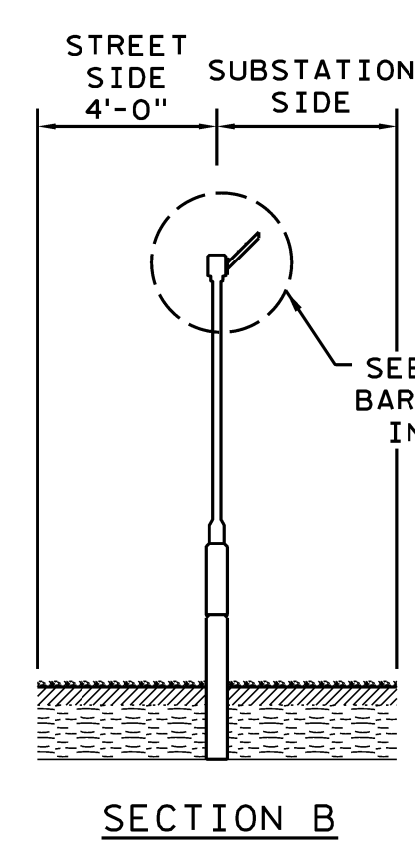
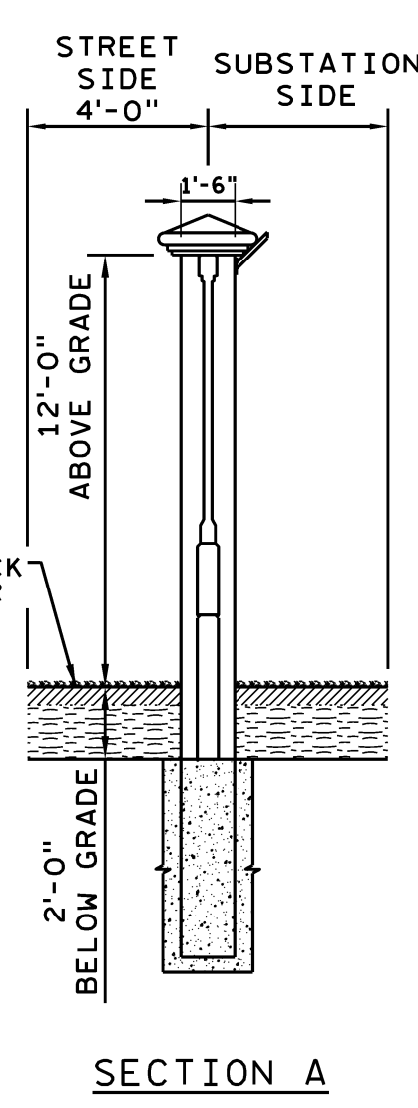
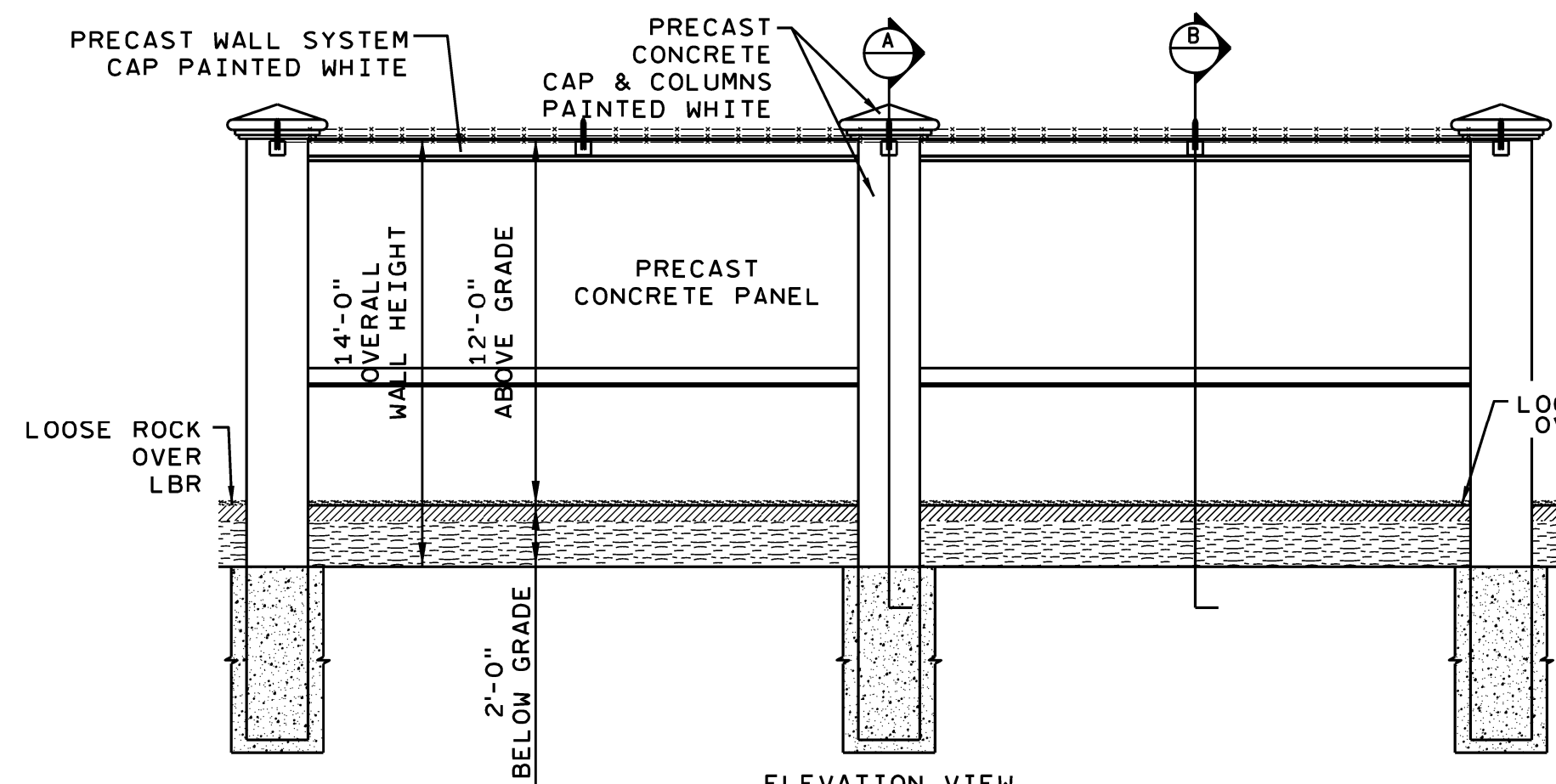
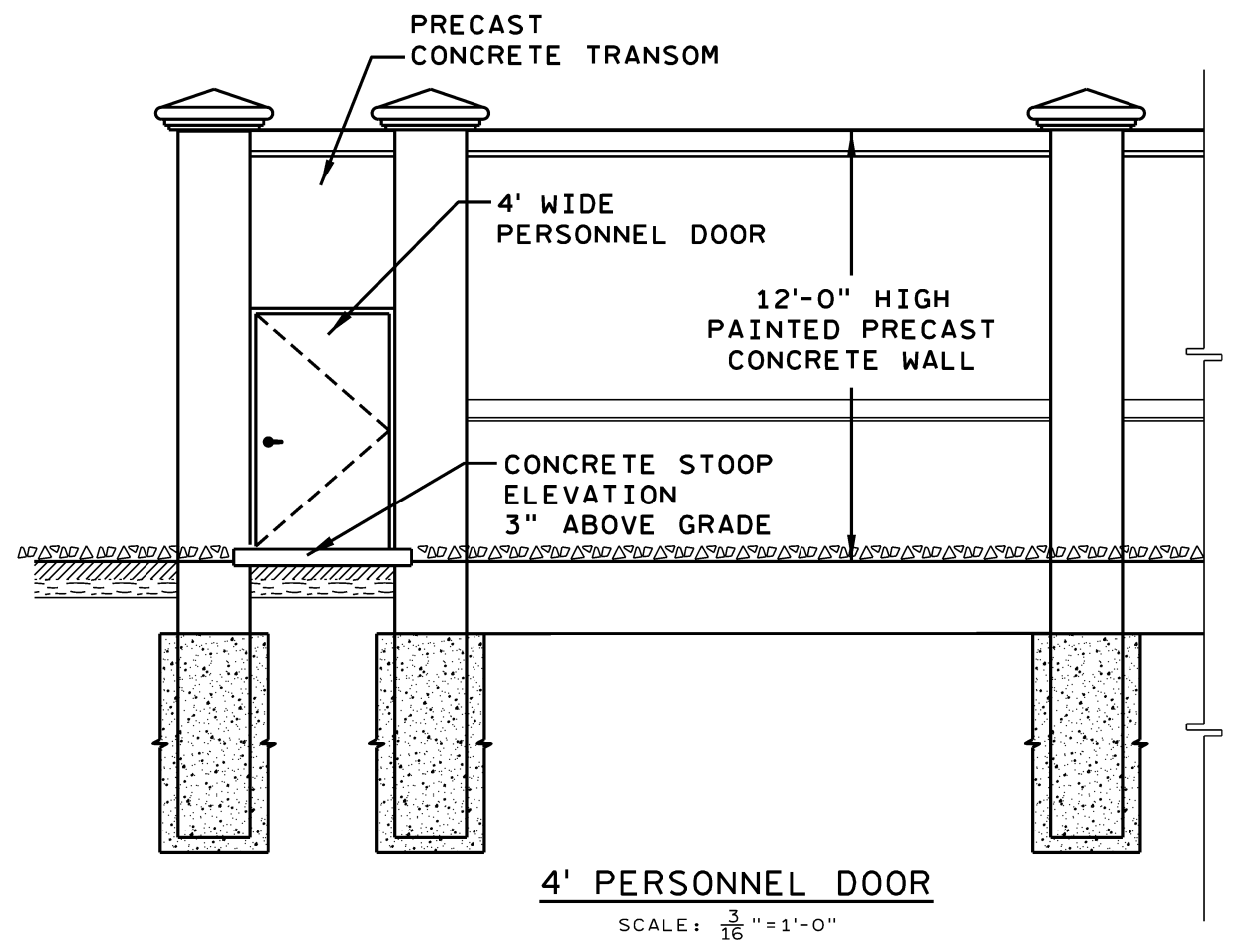
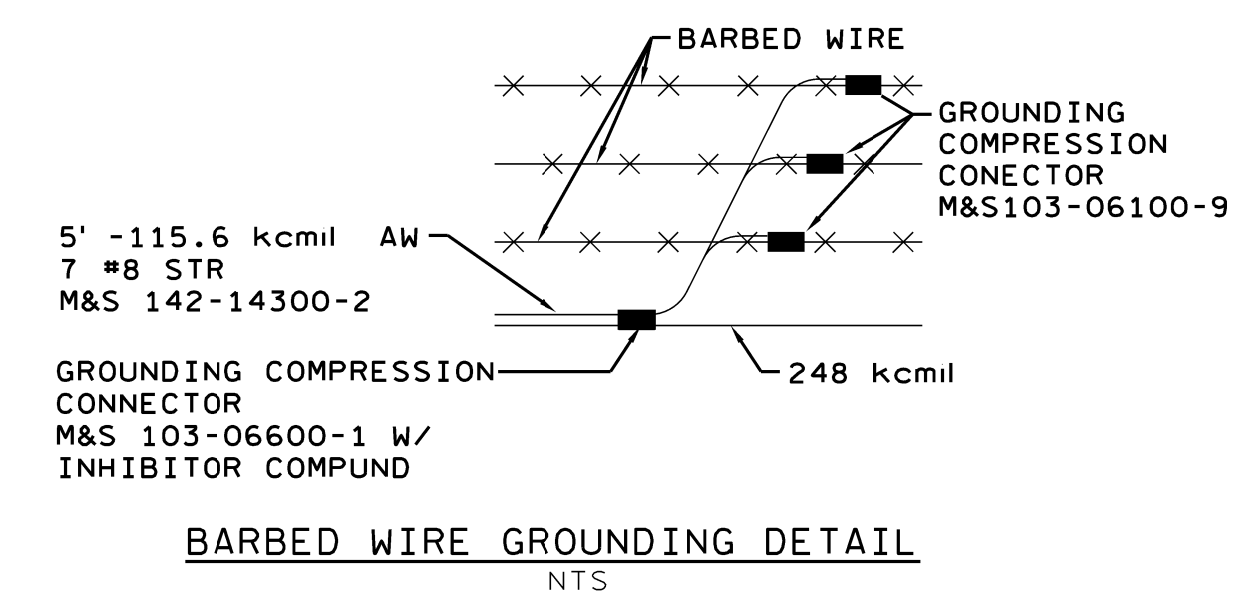
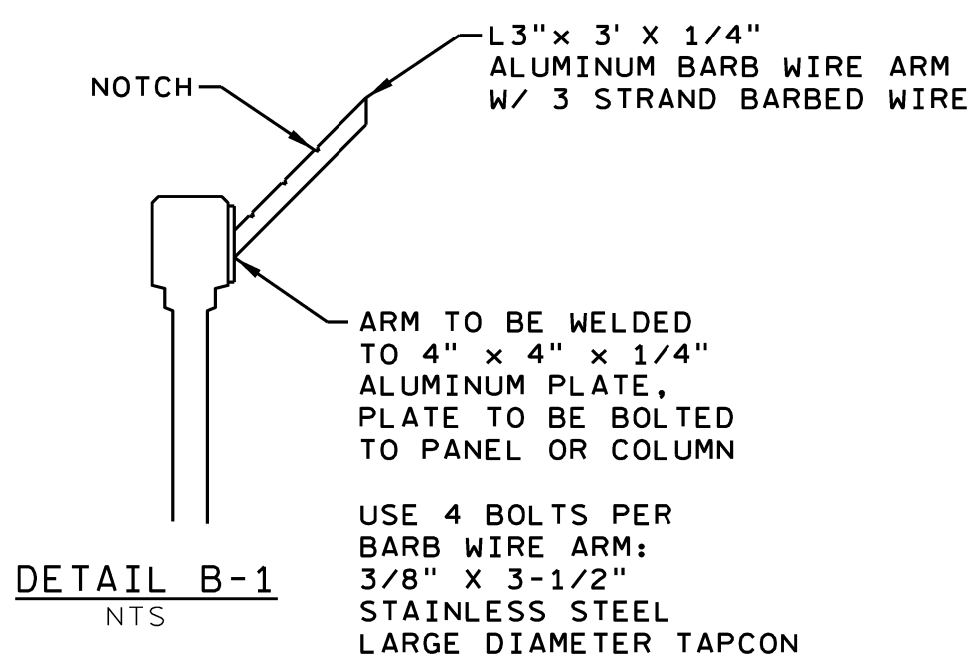
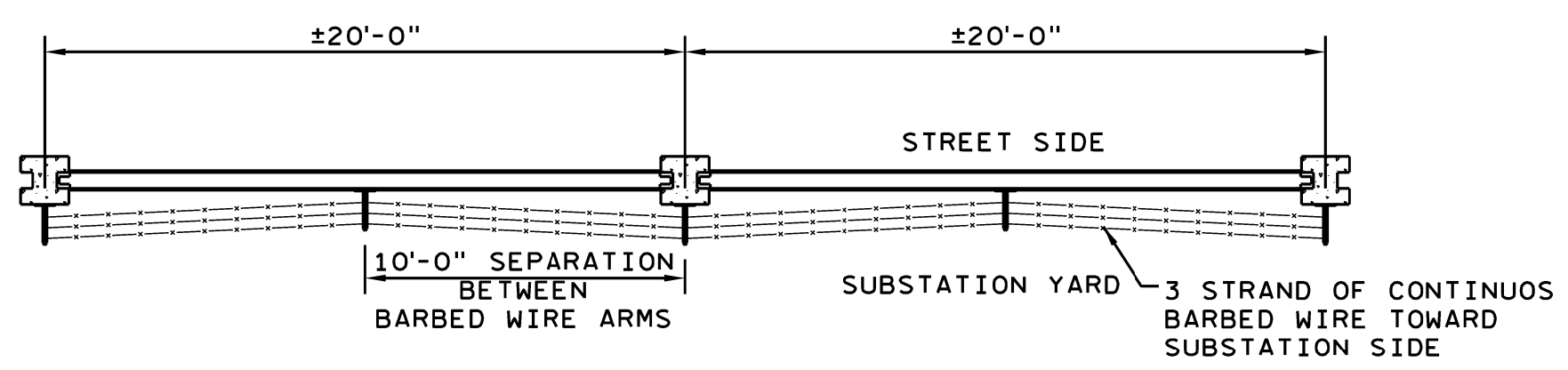
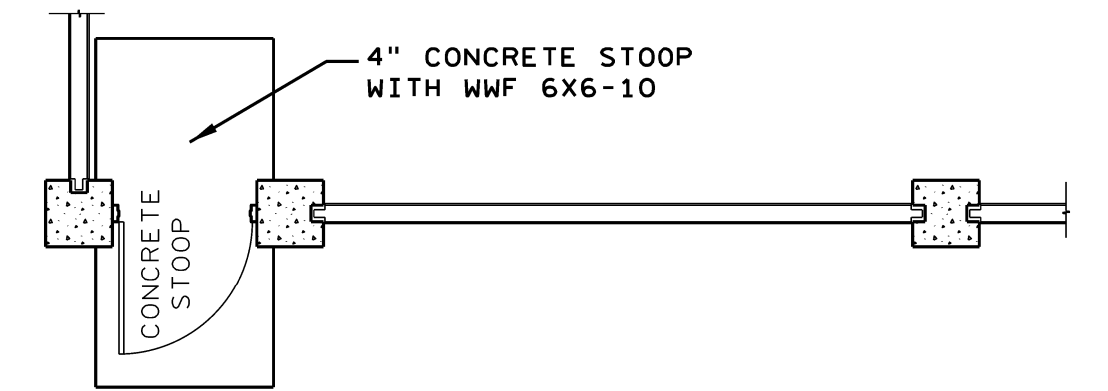


30' WIDE GATE & 4' PERSONNEL DOOR  
SCALE: 3/16" = 1'-0"

20' WIDE GATE & 4' PERSONNEL DOOR  
SCALE: 3/16" = 1'-0"

\*=SEE SITE PLAN FOR QUANTITY, SIZES, OPERATOR LOCATION AND ROLLBACK DIRECTION, NOT ALL PROJECTS WILL HAVE 30 FT WIDE AND 20 FT WIDE GATES. RIGHT HANDED GATE SHOWN FOR ILLUSTRATION PURPOSES, SPECIFIC PROJECT MAYBE OPOSITE HANDS.

- NOTES:
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SPECIFICATIONS OF PRE CAST CONCRETE WALL, PANELS AND COLUMNS.
  - WALLS AND DOORS SHALL BE DESIGNED TO WITHSTAND 194 MPH ULT. WIND VELOCITY IN ACCORDANCE WITH ASCE 7-10 AND FBCB 2020, FOR A CATEGORY IV STRUCTURE, EXPOSURE 'D'. DESIGN SHALL INCORPORATE ALL DOOR AND GATE OPENINGS.
  - DETAILED ENGINEERING DRAWINGS AND CALCULATIONS SHALL BE PROVIDED BY BUILDING CONTRACTOR FOR APPROVAL BY FPL PRIOR TO CONSTRUCTION. DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY REGISTERED FLORIDA STRUCTURAL ENGINEER. FINAL WALL DESIGN SHALL BE IN SUBSTANTIAL COMPLIANCE WITH THIS CONCEPTUAL DESIGN.
  - EXTERIOR OF WALL PANEL SHALL BE TEXTURED USING TEXCOTE LX 70W COLOR TO MATCH BENJAMIN MORE MONROE BISQUE. INSIDE OF WALL MAY BE PAINTED WITH TWO COATS OF FRESH KOTE LATEX COLOR TO MATCH BENJAMIN MORE MONROE BISQUE. WALL COLUMN, CAP AND TRIM SHALL BE MANUFACTURERS SMOOTH FINISH COLOR SHALL BE MONTGOMERY WHITE.
  - ALL WORK SHALL BE IN ACCORDANCE WITH FPL SPECIFICATIONS D-4 AS APPLICABLE.
  - ALL WORK SHALL COMPLY TO FLORIDA BUILDING CODE 2020 EDITION.
  - CONCRETE:
    - CONCRETE CONFORMING TO ASTM C94 TO ACHIEVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. PLANT CONTROL IS REQUIRED. NO WATER SHALL BE ADDED AFTER MIXING TRUCK LEAVES PLANT WITHOUT THE APPROVAL OF PLANT ENGINEER. MAXIMUM MIX TIME AT POINT OF DEPOSIT IS 90 MINUTES.
    - REINFORCING STEEL: CONFORMING TO ASTM A-615-GRADE 60, FREE FROM OIL, LOOSE SCALE & RUST.
    - WELDED WIRE FABRIC: CONFORMING TO ASTM A-185, FREE FROM OIL, LOOSE SCALE & RUST.
  - FOR SIGNS INTALLATION AND LOCATION REFERENCE SUBSTATION STANDARD DRAWING E-216798 "CHAIN LINK FENCE/WALL SIGN PLACEMENT INSTALLATION DETAILS".
  - FOR GROUNDING DETAILS REFERENCE SUBSTATION STANDARD DRAWING E-16131.



NO	DATE	REVISION	BY	CH	COR	APP
5	08-05-21	EMERGENCY DOOR & CONCRETE STOOP ADDED	AV			
4	05-26-21	FBC VERSION REVISED	AV			
3	03-16-20	* NOTE ADDED, TITTLE REVISED	AV			
2	10-02-18	BARB WIRE ARM BOLT DESCRIPTION ADDED	AV			
1	03-14-18	BALLISTIC PERSONNEL DOOR ADDED, WALL OPENINGS REMOVED.	AV			

DATE 10-18-17 SCALE 0

**POWER DELIVERY**

DR VALENTIN ER  
CH COR  
APPROVED

STATION STANDARD TRANSMISSION  
12' PRECAST CONCRETE SECURITY WALL DETAILS

(SU, G, PP)

SHEET 1 OF 1  
E-246315  
CAD

REV NO 5  
ENGINEER'S SEAL