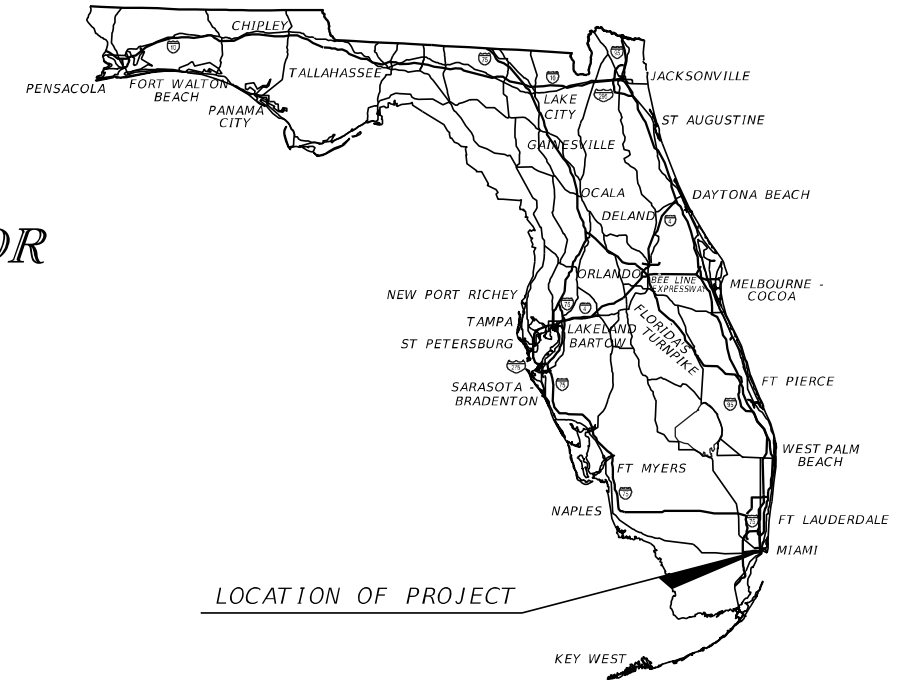


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

UTILITY WORK BY HIGHWAY CONTRACTOR

FINANCIAL PROJECT ID 429193-1-56-01
(FEDERAL FUNDS)
MIAMI-DADE COUNTY (87037)
STATE ROAD NO. 907 / ALTON ROAD
FROM MICHIGAN AVENUE TO
SOUTH OF ED SULLIVAN DRIVE / 43 STREET
PROPOSED SANITARY SEWER &
PUMP STATION INSTALLATIONS



**INDEX OF UTILITY WORK BY
HIGHWAY CONTRACTOR PLANS**

SHEET NO.	SHEET DESCRIPTION
SS-1	KEY SHEET
SS-2	SIGNATURE PAGE
SS-3	GENERAL NOTES & LEGEND
SS-4	DERM NOTES
SS-5	PLAN LAYOUT
SS-6 TO SS-16	SANITARY SEWER PLAN & PROFILE
SS-17 TO SS-18	DETAILS
SS-19	SEWER MAIN DETAILS
PS-1 TO PS-2	SEWER PS 25 GENERAL NOTES I & II
PS-3 TO PS-4	SEWER PS 25 SYMBOLS, LEGENDS, AND PIPE SCHEDULE I & II
PS-5	SEWER PS 25 GEOTECHNICAL BORINGS
PS-6 TO PS-7	SEWER PS 25 CIVIL DEMOLITION PLAN I & II
PS-8 TO PS-9	SEWER PS 25 EROSION AND SEDIMENT CONTROL PLAN I & II
PS-10	SEWER PS 25 OVERALL CIVIL SITE PLAN
PS-11	SEWER PS 25 ENLARGED CIVIL SITE PLAN
PS-12 TO PS-13	SEWER PS 25 UTILITY PLAN I & II
PS-14	SEWER PS 25 8" FM PLAN AND PROFILE
PS-15	SEWER PS 25 CIVIL CROSS SECTIONS
PS-16 TO PS-18	SEWER PS 25 CIVIL DETAILS I, II & III
PS-19 TO PS-21	SEWER PS 25 MECHANICAL PLAN AND SECTION I, II & III
PS-22 TO PS-23	SEWER PS 25 STRUCTURAL NOTES I & II
PS-24	SEWER PS 25 STRUCTURAL SITE PLAN
PS-25	SEWER PS 25 STEEL PLATFORM PLAN AND SECTION
PS-26	SEWER PS 25 STRUCTURAL PLAN AND SECTION
PS-27 TO PS-31	SEWER PS 25 STRUCTURAL DETAILS I, II, III, IV & V
PS-32 TO PS-34	SEWER PS 25 LANDSCAPE NOTES I, II & III
PS-35	SEWER PS 25 LANDSCAPE PLAN
PS-36	SEWER PS 25 LANDSCAPE DETAILS
PS-37 TO PS-38	SEWER PS 25 ELECTRICAL GENERAL NOTES AND SYMBOLS I & II
PS-39 TO PS-42	SEWER PS 25 ELECTRICAL SITE PLAN I, II, III & IV
PS-43	SEWER PS 25 ELECTRICAL SINGLE LINE DIAGRAM
PS-44	SEWER PS 25 ELECTRICAL FAULT CURRENT LETTER
PS-45 TO PS-50	SEWER PS 25 ELECTRICAL CONTROL PANEL SCHEMATIC I, II, III, IV, V & VI
PS-51 TO PS-56	SEWER PS 25 ELECTRICAL DETAILS I, II, III, IV, V & VI
PS-57	SEWER PS 25 TOPOGRAPHIC SURVEY

FDOT PROJECT MANAGER:

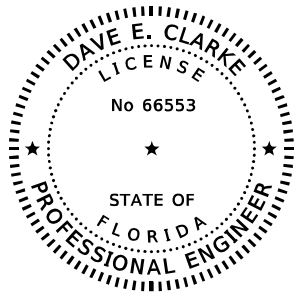
KEVIN LOPEZ, P.E.

MIAMI BEACH PROJECT MANAGER:

OMAR MENDOZA, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T6398	27	SS-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Dave E Clarke
 Digitally signed by Dave E Clarke
 Date: 2025.10.13 17:35:59 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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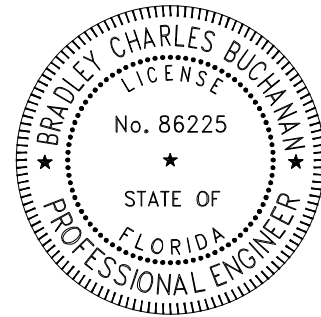
DAVE E. CLARKE, PE
 PE NO. 66553
 STANTEC CONSULTING SERVICES INC.
 901 PONCE DE LEON STE 900
 CORAL GABLES, FL 33134
 CONTRACT NO: C-9A12
 VENDOR NO: VF-112-167-170
 CERTIFICATE OF AUTHORIZATION NO: 00027013

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PROPOSED SANITARY SEWER PLANS

SHEET NO.	SHEET DESCRIPTION
SS-1	KEY SHEET
SS-2	SIGNATURE PAGE
SS-3	GENERAL NOTES & LEGEND
SS-4	DERM NOTES
SS-5	PLAN LAYOUT
SS-6 TO SS-16	GRAVITY SEWER PLAN & PROFILE
SS-17 TO SS-18	DETAILS
SS-19	SEWER MAIN DETAILS



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Bradley C Buchanan
 Digitally signed by Bradley C Buchanan
 Date: 2025.10.13 18:16:58-04'00'

ON THE DATE ADJACENT TO THE SEAL

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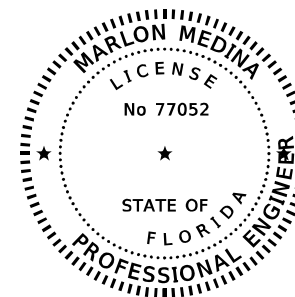
BRADLEY BUCHANAN, PE
 PE NO. 86225
 STANTEC CONSULTING SERVICES INC.
 901 PONCE DE LEON STE 900
 CORAL GABLES, FL 33134
 CONTRACT NO: C-9A12
 VENDOR NO: VF-112-167-170
 CERTIFICATE OF AUTHORIZATION NO: 00027013

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

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PROPOSED PUMP STATION PLANS

SHEET NO.	SHEET DESCRIPTION
PS-37 TO PS-38	SEWER PS 25 ELECTRICAL GENERAL NOTES AND SYMBOLS I & II
PS-39 TO PS-42	SEWER PS 25 ELECTRICAL SITE PLAN I, II, III & IV
PS-43	SEWER PS 25 ELECTRICAL SINGLE LINE DIAGRAM
PS-44	SEWER PS 25 ELECTRICAL FAULT CURRENT LETTER
PS-45 TO PS-50	SEWER PS 25 ELECTRICAL CONTROL PANEL SCHEMATIC I, II, III, IV, V & VI
PS-51 TO PS-56	SEWER PS 25 ELECTRICAL DETAILS I, II, III, IV, V & VI



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Marlon J Medina

Digitally signed by Marlon J Medina
 DN: cn=Marlon J Medina, dnQualifier=A01410C000018FDA5ADFED0009761, o=STANTEC CONSULTING SERVICES INC., c=US
 Reason: I have reviewed this document
 Date: 2025.10.13 18:26:54-04'00'

ON THE DATE ADJACENT TO THE SEAL

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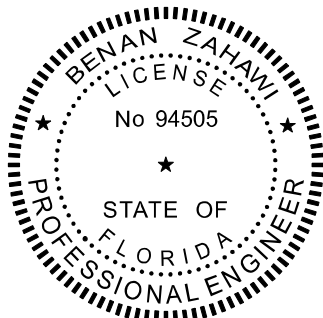
MARLON J. MEDINA, PE
 PE NO. 77052
 STANTEC CONSULTING SERVICES INC.
 901 PONCE DE LEON STE 900
 CORAL GABLES, FL 33134
 CONTRACT NO: C-9A12
 VENDOR NO: VF-112-167-170
 CERTIFICATE OF AUTHORIZATION NO: 00027013

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PROPOSED PUMP STATION PLANS

SHEET NO.	SHEET DESCRIPTION
PS-1 TO PS-2	SEWER PS 25 GENERAL NOTES I & II
PS-3 TO PS-4	SEWER PS 25 SYMBOLS, LEGENDS AND PIPE SCHEDULE I & II
PS-5	SEWER PS 25 GEOTECHNICAL BORINGS
PS-6 TO PS-7	SEWER PS 25 CIVIL DEMOLITION PLAN I & II
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PS-32 TO PS-34	SEWER PS 25 LANDSCAPE NOTES I, II & III
PS-35	SEWER PS 25 LANDSCAPE PLAN
PS-36	SEWER PS 25 LANDSCAPE DETAILS



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Zahawi, Benan
 Digitally signed by Zahawi, Benan
 DN: CN="Zahawi, Benan", OU=Internal, OU=users, OU=stantec, DC=corp, DC=ads
 Date: 2025.10.13 09:03:32-06'00'

ON THE DATE ADJACENT TO THE SEAL

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BENAN ZAHAWI, PE
 PE NO. 94505
 STANTEC CONSULTING SERVICES INC.
 901 PONCE DE LEON STE 900
 CORAL GABLES, FL 33134
 CONTRACT NO: C-9A12
 VENDOR NO: VF-112-167-170
 CERTIFICATE OF AUTHORIZATION NO: 00027013

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

PROPOSED PUMP STATION PLANS

SHEET NO.	SHEET DESCRIPTION
PS-22 TO PS-23	SEWER PS 25 STRUCTURAL NOTES I & II
PS-24	SEWER PS 25 STRUCTURAL SITE PLAN
PS-25	SEWER PS 25 STEEL PLATFORM PLAN AND SECTION
PS-26	SEWER PS 25 STRUCTURAL PLAN AND SECTION
PS-27 TO PS-31	SEWER PS 25 STRUCTURAL DETAILS I, II, III, IV & V

REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO. SS-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

GENERAL NOTES

- CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL INSPECTIONS REQUIRED BY THE PERMIT AND CONTRACT SPECIFICATIONS.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER UTILITIES, ETC WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE BEEN INSTALLED AND CONSTRUCTED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION, LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THESE PLANS) AFFECTING THIS WORK. PRIOR TO BIDDING, THE CONTRACTOR SHALL CONDUCT ALL SUCH SITE INVESTIGATIONS AND FIELD VISITS NECESSARY TO DETERMINE THE ACTUAL FIELD CONDITIONS THAT MAY IMPACT HIS WORK PLAN AND COMPLETION OF WORK.
- CONTRACTOR TO MAINTAIN RESIDENTS DRIVEWAY OPEN OR PROVIDE ACCESS AT ALL TIMES.
- BENCHMARK ELEVATIONS SHOWN ON PLANS ARE NORTH AMERICAN DATUM OF 1988 (NAVD88).
- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXIST. SEWER LATERALS. ALL EXISTING SEWER LATERALS TO BE REMOVED AND RECONNECTED TO THE NEW GRAVITY SEWER.
- CONTRACTOR TO NOTIFY CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT (305) 673-7080, 48 HOURS IN ADVANCE OF CONSTRUCTION WITHIN ANY SIGNALIZED INTERSECTION.
- GRAVITY SEWER MAIN, FORCE MAIN AND PUMP STATION WILL BE OPERATED AND MAINTAINED BY CITY OF MIAMI BEACH.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING STORMWATER INLETS CLEAN OF DEBRIS DURING CONSTRUCTION AT NO ADDITIONAL COST.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF PERMIT AND DEWATERING SHALL BE INCLUDED IN THE BID ITEM FOR THE RELATED.
- TO SAFEGUARD THE PUBLIC HEALTH, SAFETY AND WELFARE, THE DESIGN STANDARDS, PROCEDURES AND CONSTRUCTION MATERIALS WERE SELECTED BASED ON THE RESULTS OF AN ENVIRONMENTAL DUE DILIGENCE REVIEW OF PUBLIC RECORDS PERFORMED PURSUANT TO STATE AND LOCAL REGULATIONS WITH RESPECT TO SOIL AND GROUNDWATER CONTAMINATION.
- PORTIONS OF THE WATER MAIN DISTRIBUTION SYSTEM THAT WILL BE INSTALLED WITHIN A CONTAMINATED AREA SHALL IMPLEMENT THE FOLLOWING: ALL JOINTS SHALL BE EQUIPPED WITH GASKETS, THE TRENCH SHALL BE LINED WITH IMPERMEABLE MEMBRANE, AND ONLY CLEAN UNCONTAMINATED SOIL SHALL BE USED FOR BACKFILLING; ANY CONTAMINATED SOIL SHALL BE PROPERLY DISPOSED OF. THE FOLLOWING AREAS HAVE BEEN IDENTIFIED AS POTENTIALLY CONTAMINATED APPROXIMATELY FROM STATION 90+00 TO STA 142+00.
- ALL EXCAVATION MATERIAL SHALL BE CONSIDERED UNSUITABLE AND SHALL BE REPLACED WITH SUITABLE MATERIAL. COST TO BE INCLUDED IN RELATED PAY ITEM FOR WORK BEING DONE.

UTILITIES NOTES

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

UTILITY/AGENCY OWNERS:

AT&T FL /BELLSOUTH	STEVE MASSIE	(305)-222-8745
ATLANTIC BROADBAND	DAVID MCBRIDE	(305)-861-8069
CROWN CASTLE	DANNY HACKETT	(305)-552-2931
CITY OF MIAMI BEACH	MIKE ALVAREZ	(305)-673-7000
FPL DISTRIBUTION	KAREN LUND	(305)-442-5290
FPL TRANSMISSION	GEORGE BECK	(561)-894-4060
SPRINT NEXTEL	MARK CALDWELL	(407)-422-6674
TECO / PEOPLE GAS	ANGEL QUANT	(954)-453-0811

MAINTENANCE OF TRAFFIC (MOT) NOTES:

- FOR MOT PLANS, REFER TO ROADWAY PLANS (FPID 429193-1-52-01).

CORE BORING

- FOR REPORT OF CORE BORINGS, REFER TO ROADWAY PLANS (FPID 429193-1-52-01).

ENVIRONMENTAL

- NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT NOT DEPICTED ON THE CURRENT PLAN SUBMITTAL WILL BE ALLOWED WITHIN OR ADJACENT TO THE SUNSET LAKE HISTORIC DISTRICT (INCLUDING THE BAYSHORE GOLF COURSE/MIAMI BEACH GOLF CLUB) FROM STA:89+96.74 TO STA:141+00, WITHIN OR ADJACENT TO THE 41ST STREET HISTORIC DISTRICT FROM STA:154+00 (RT) TO STA:158+00 (RT), WITHIN THE NAUTILUS HISTORIC DISTRICT FROM STA:158+00 TO STA:164+00 AND WITHIN OR ADJACENT TO THE BISCAYNE WATERWAY/BISCAYNE BAY AQUATIC PRESERVE.

LEGEND & ABBREVIATIONS (FOR PLAN AND PROFILE)

- PROP. SEWER MAIN
- PROP. GRAVITY SEWER MANHOLE
- EXIST. GRAVITY SEWER MANHOLE
- PROP. LATERALS
- PROFILE SECTION
- TEE
- 90° BEND
- 45° BEND
- SOLID SLEEVE
- TAPPING SLEEVE
- CENTER LINE
- BASE LINE
- AIR RELEASE VALVE
- CAP & FVO
- PLUG
- CAP
- PROP. REDUCER
- EXISTING SAN. SEWER TO BE PLACED OUT OF SERVICE
- EXISTING SAN. SEWER TO BE REMOVED
- C.M.B. CITY OF MIAMI BEACH
- R.S.G.V. RESILIENT SEATED GATE VALVE
- A.R.V. AIR RELEASE VALVE
- BJ BELL JOINT
- FDC FIRE DEPARTMENT CONNECTION
- FLG FLANGE
- F.V.O. FLUSHING VALVE OUTLET
- G.V. GATE VALVE
- M.J. MECHANICAL JOINT
- PE PLAIN END
- P.I.V. POST INDICATOR VALVE
- REINF. REINFORCED
- REST. RESTRAINED
- T.V. TAPPING VALVE



REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES & LEGEND	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SS-3
					SR 907	MIAMI-DADE	429193-1-56-01		

DERM NOTES ON WATER-SEWER INSTALLATION

1. A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE BOTTOM OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF ONE OF THE FOLLOWING IS MET:

- A) THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
- B) THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- C) THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.

2. A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THIS DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF ONE OF THE FOLLOWING IS MET:

- A) THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
- B) THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.

3. AIR RELEASE VALVES SHALL BE PROVIDED AT HIGH POINTS OF NEW FORCE MAIN SANITARY SEWERS.

4. GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE C-900 PVC OR DUCTILE IRON PIPE. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE:

- A) RESIDENTIAL LAND USES. FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE.
- B) NON-RESIDENTIAL LAND USES. TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE.
- C) ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.

5. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.

6. FORCEMAIN SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE DUCTILE IRON, C-900 PVC, HDPE OR REINFORCED CONCRETE PRESSURE SEWER PIPES.

7. THE MAXIMUM ALLOWABLE EXFILTRATION/LEAKAGE RATE OF FORCEMAIN SANITARY SEWERS SHALL BE:

- A) DUCTILE IRON, C-900 PVC, HDPE AND PVC PIPE. THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
- B) REINFORCED CONCRETE PRESSURE PIPE. HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
- C) ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.

8. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.

9. IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS.

10. IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL APPLY:

A) ALL WORK IN THE AREA SHALL FOLLOW ALL APPLICABLE SAFETY REQUIREMENTS (E.G., OSHA, ETC.) AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES.

B) IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION (EMRD). THE EMRD CAN BE CONTACTED AT (305) 372-6700.

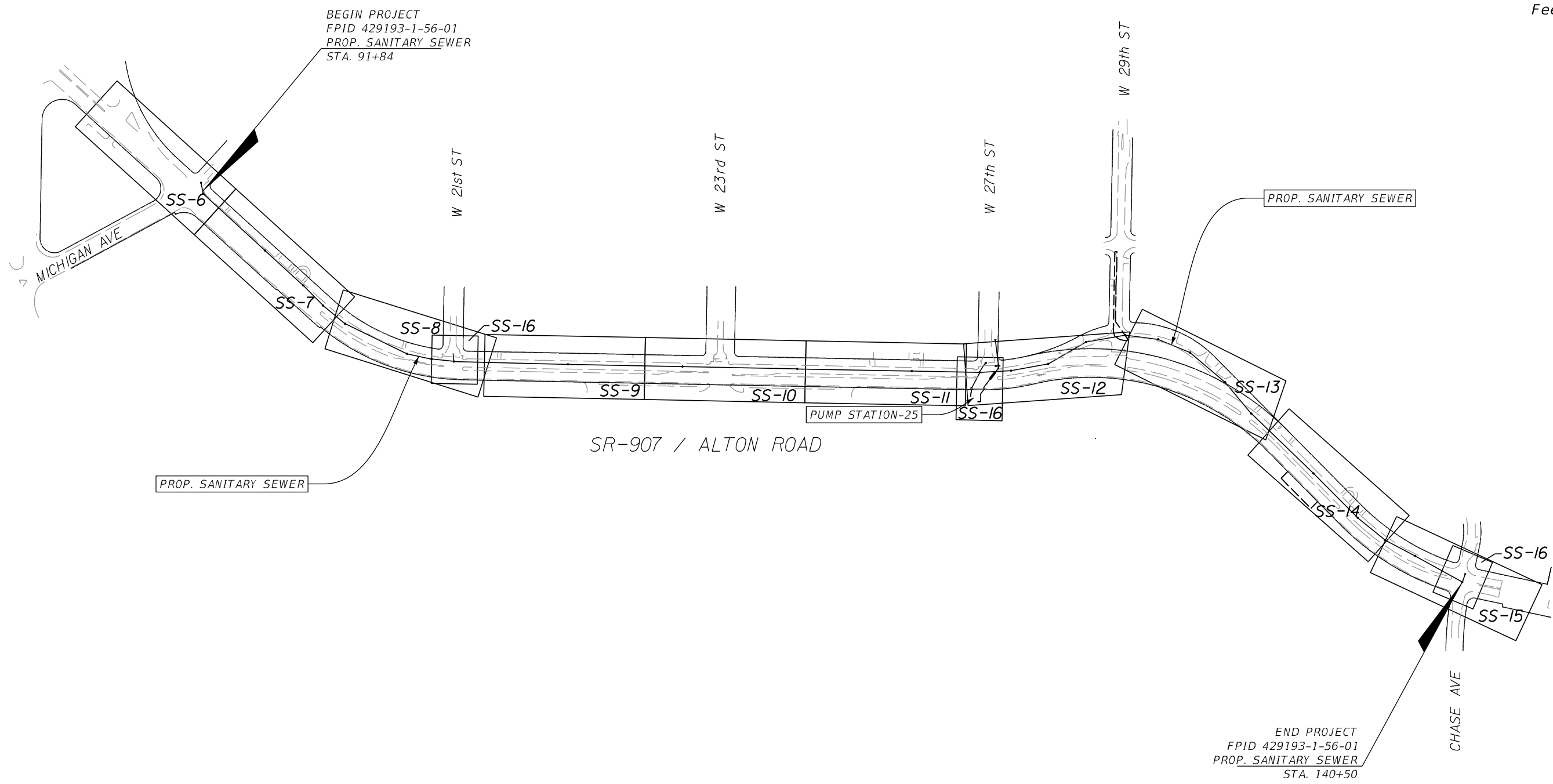
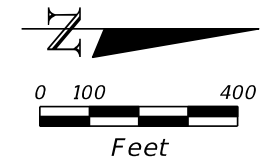
C) IF CONTAMINATED SOILS AND/OR BURIED SOLID WASTE MATERIAL IS EXCAVATED DURING CONSTRUCTION, THEN THEY REQUIRE PROPER HANDLING AND DISPOSAL IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. BE ADVISED THAT THE LANDFILL OWNER/OPERATOR IS THE FINAL AUTHORITY ON DISPOSAL AND MAY HAVE REQUIREMENTS BEYOND THOSE PROVIDED BY HEREIN. IF DISPOSAL WITHIN A MIAMI-DADE COUNTY OWNED LANDFILL (CLASS 1 LANDFILL) IS APPROPRIATE AND SELECTED, PLEASE CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF SOLID WASTE MANAGEMENT AT (305) 594-6666 FOR INFORMATION.

D) THE REUSE OF CONTAMINATED SOILS THAT ARE NOT RETURNED TO THE ORIGINAL EXCAVATION REQUIRES PRIOR APPROVAL OF A SOIL MANAGEMENT PLAN FROM THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION. THE EMRD CAN BE CONTACTED AT (305) 372-6700.

11. PUMPS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS FOR CLASS I, GROUP D, DIVISION 1 LOCATIONS (EXPLOSION PROOF).

REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>DERM NOTES</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		SS-4
					SR 907	MIAMI-DADE	429193-1-56-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BEGIN PROJECT
 FPID 429193-1-56-01
 PROP. SANITARY SEWER
 STA. 91+84

END PROJECT
 FPID 429193-1-56-01
 PROP. SANITARY SEWER
 STA. 140+50

SR-907 / ALTON ROAD

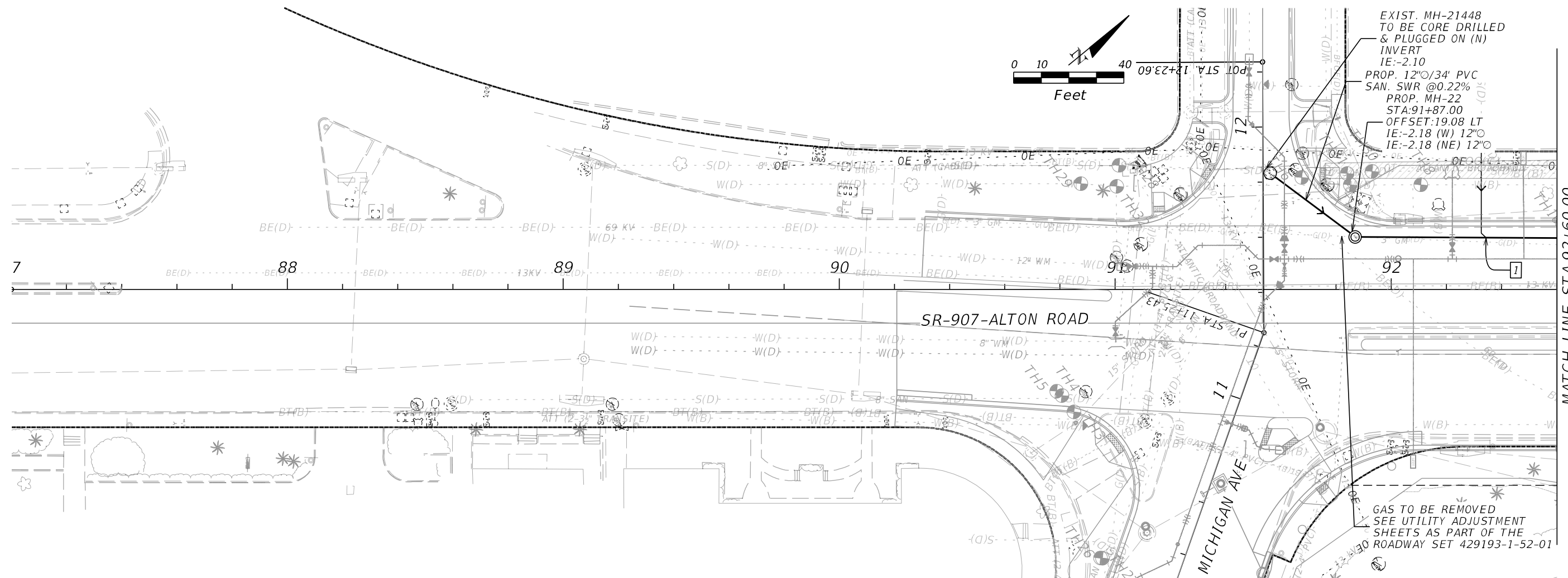
PROP. SANITARY SEWER

PROP. SANITARY SEWER

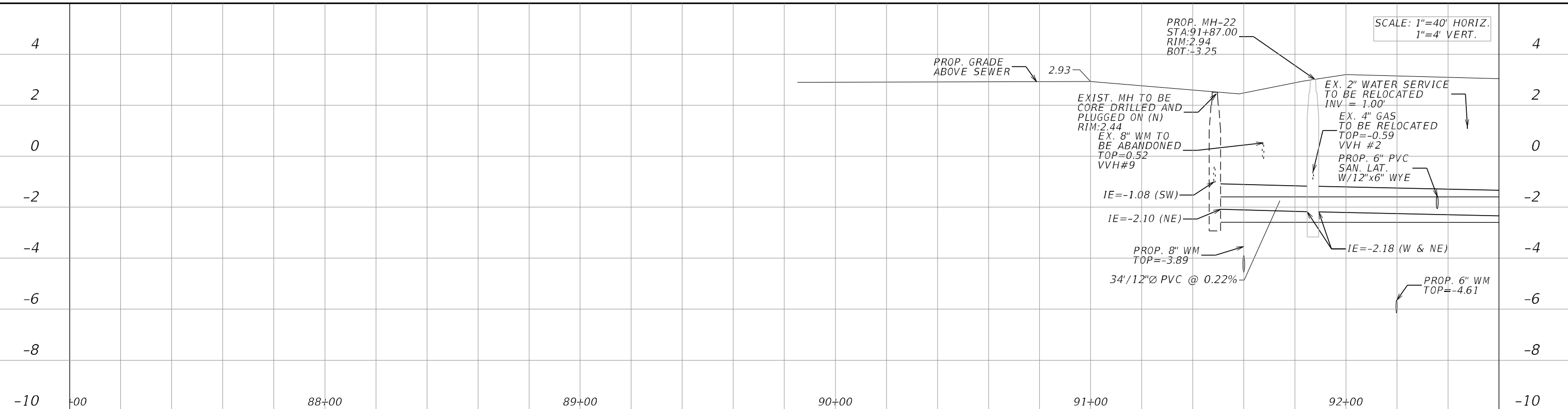
REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

\$USERS \$DATES \$TIMES \$FILES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS

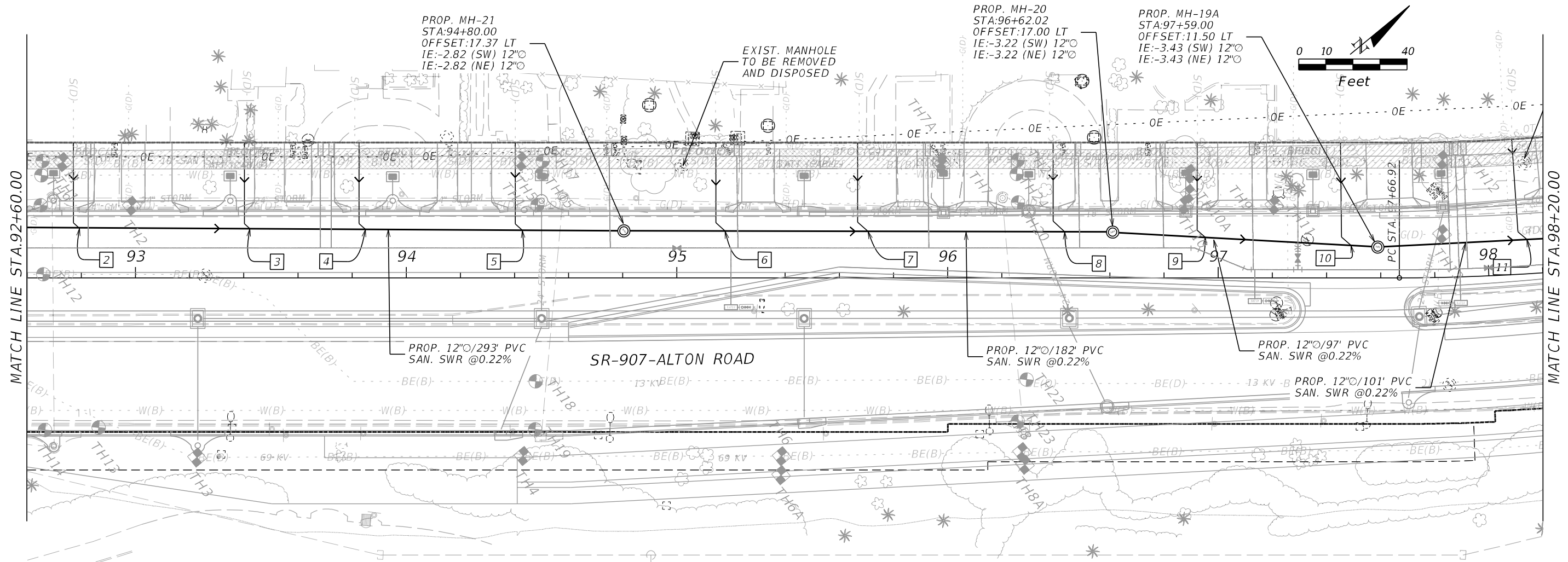


SCALE: 1"=40' HORIZ.
1"=4' VERT.

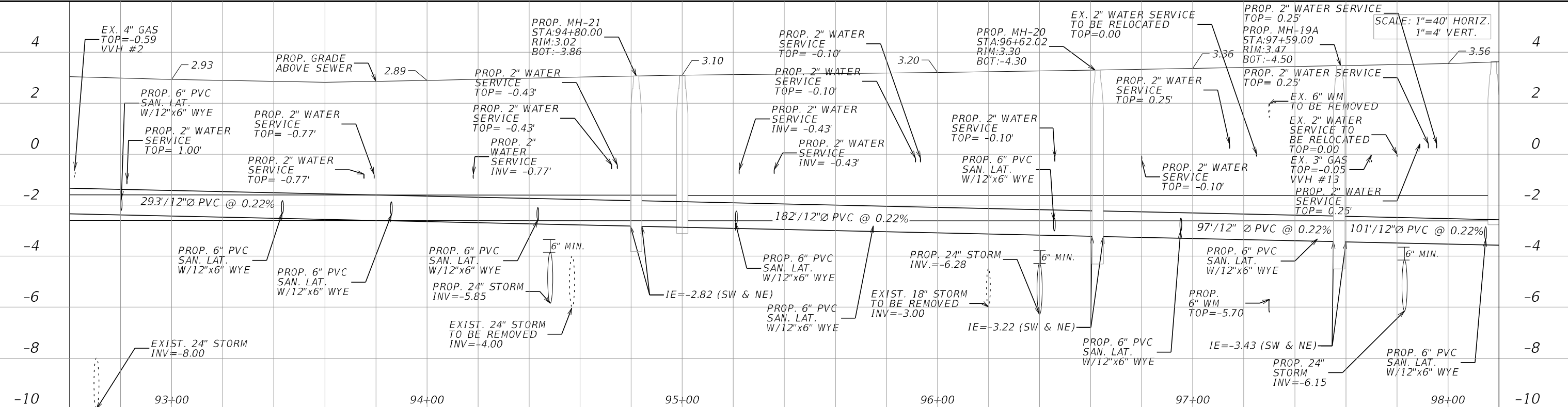
REVISIONS				STANTEC CONSULTING SERVICES INC.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	SR 907	MIAMI-DADE	429193-1-56-01	SS-6

**SANITARY SEWER
PLAN AND PROFILE**

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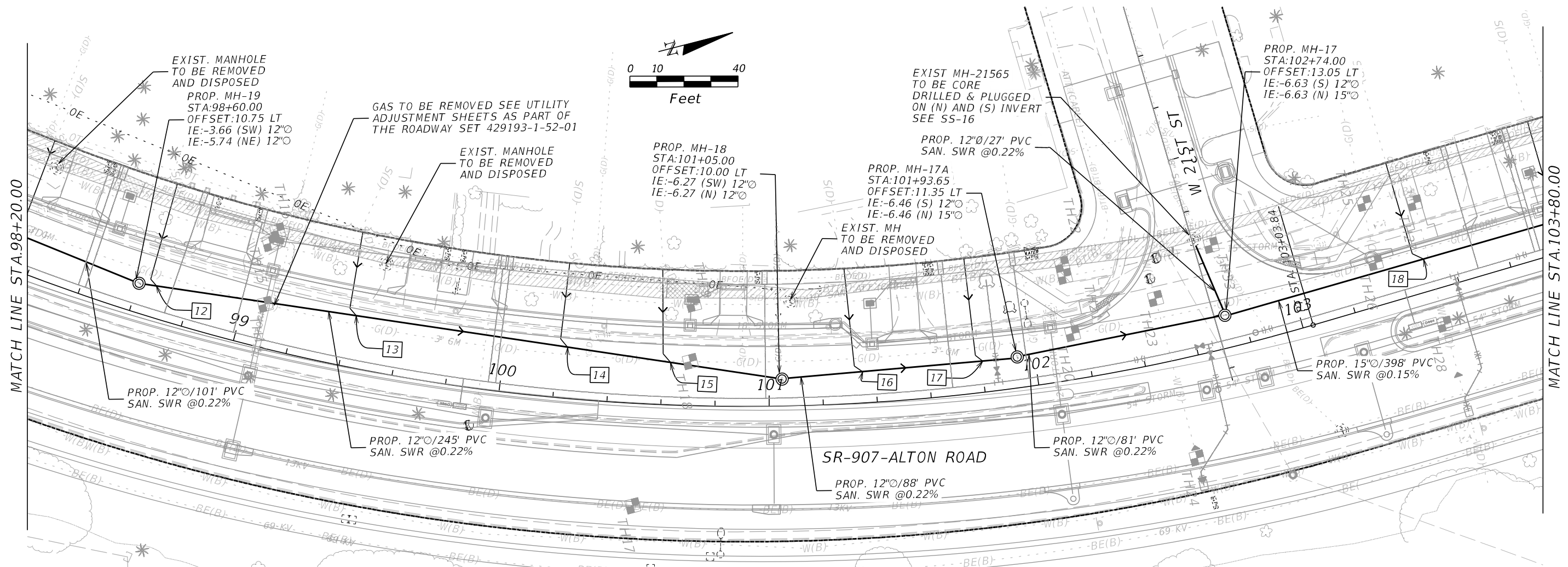


NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS

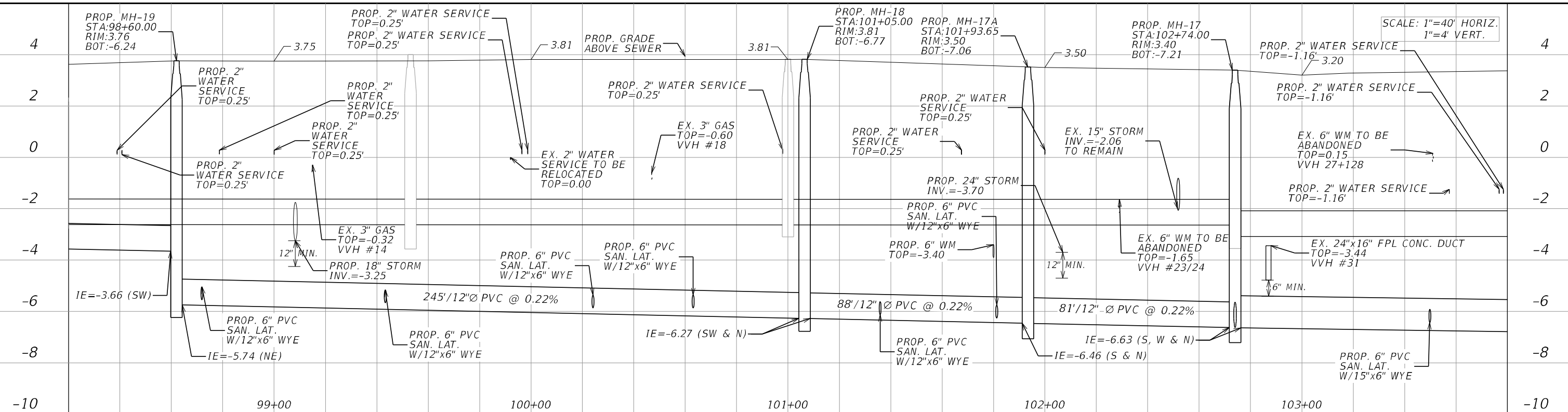


REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



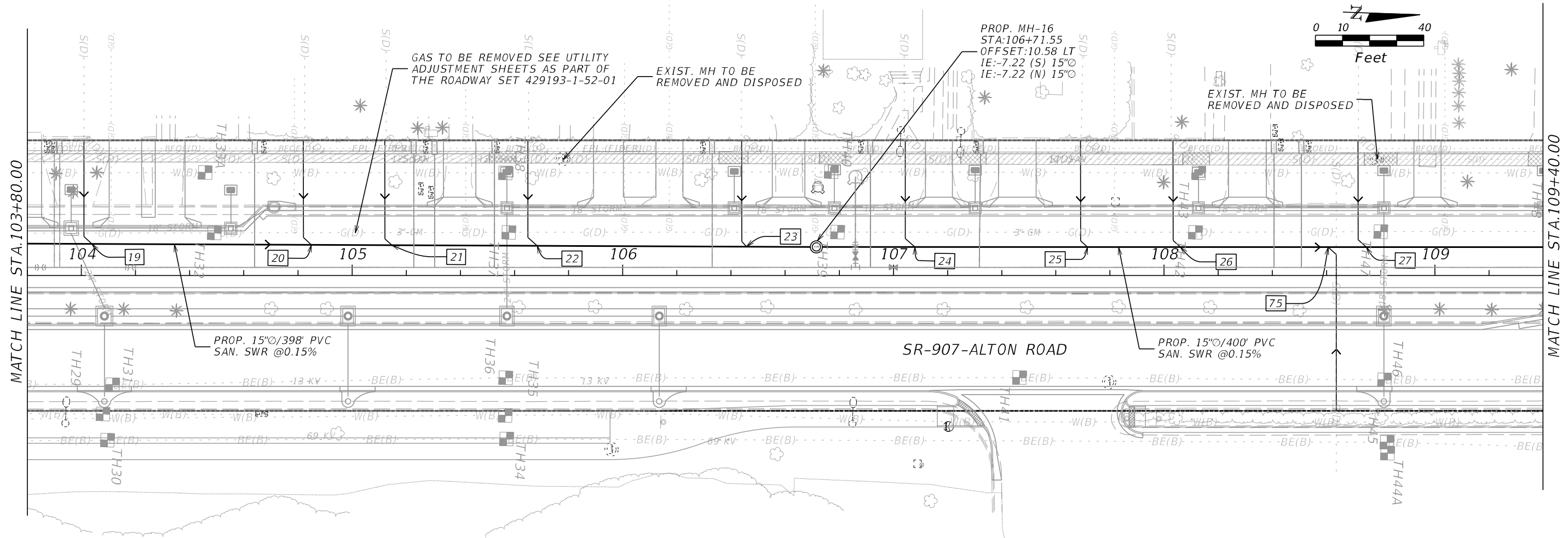
NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



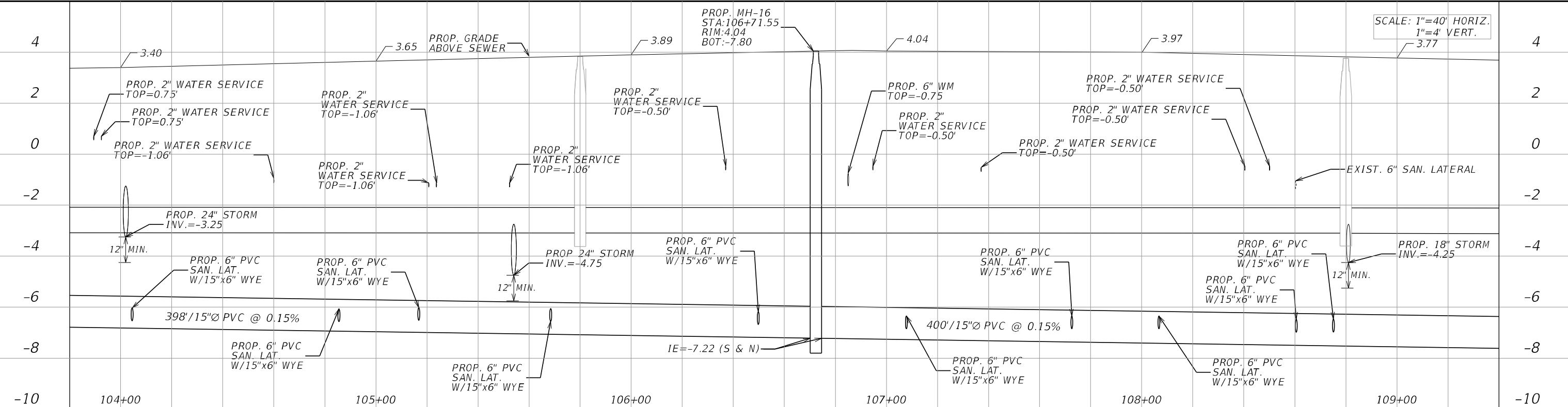
REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

**SANITARY SEWER
PLAN AND PROFILE**

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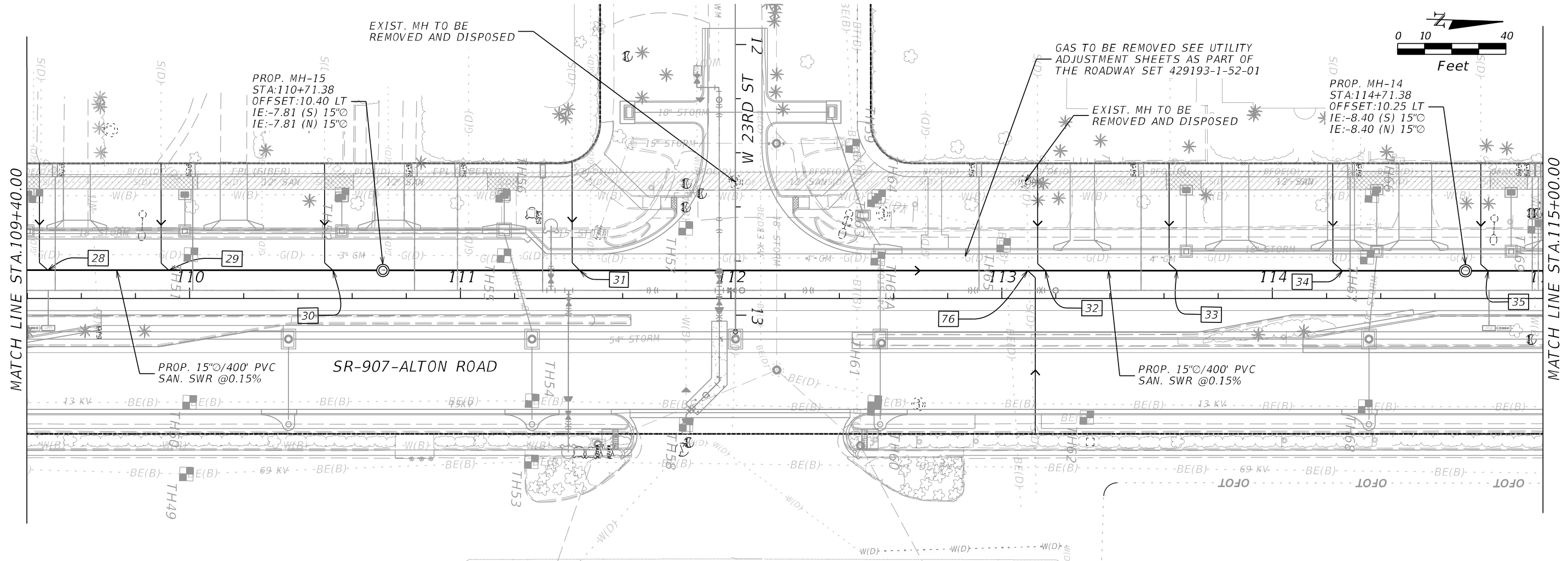
NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

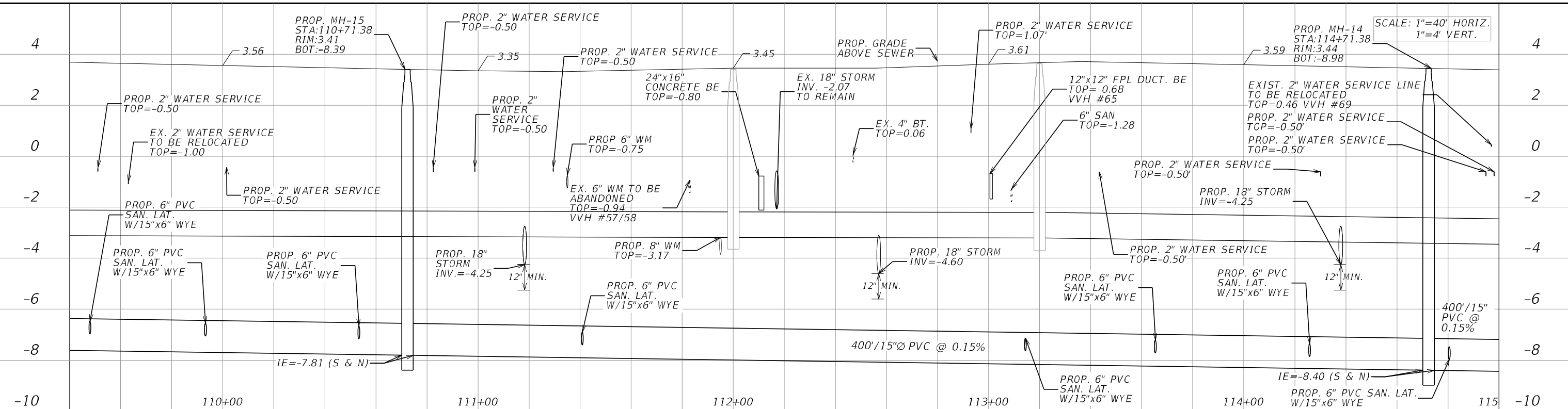
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA.109+40.00

MATCH LINE STA.115+00.00

NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS

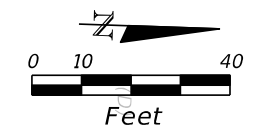
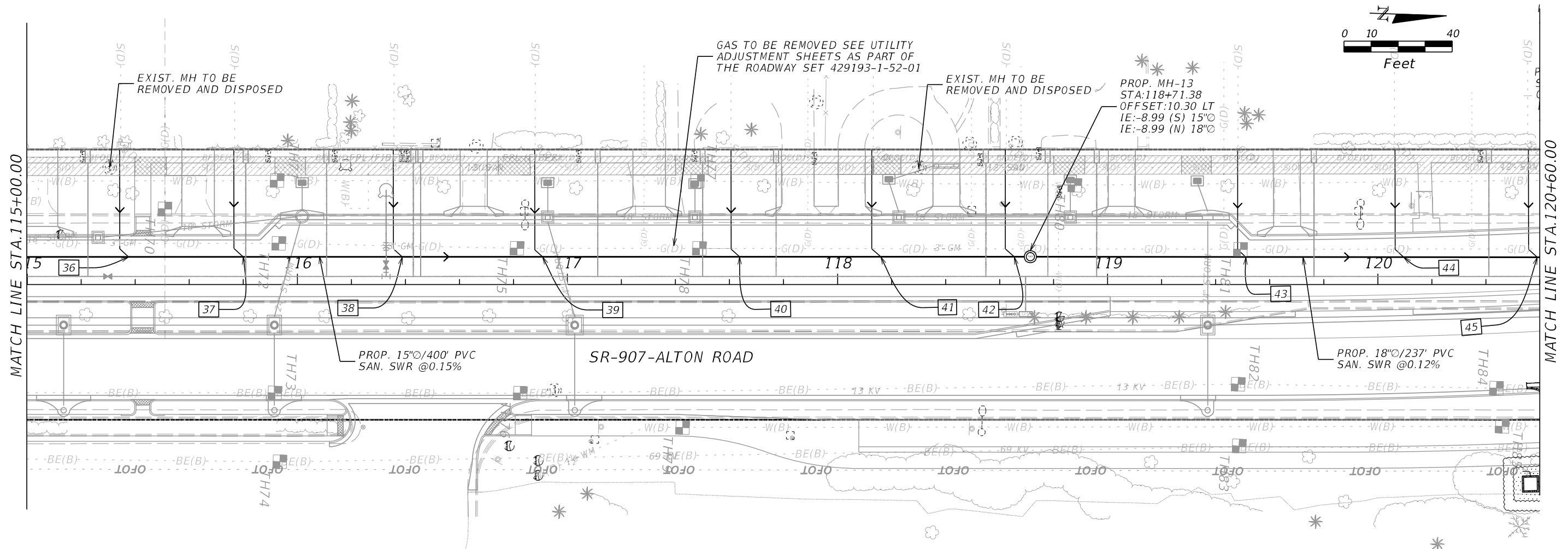


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1"=4' VERT.

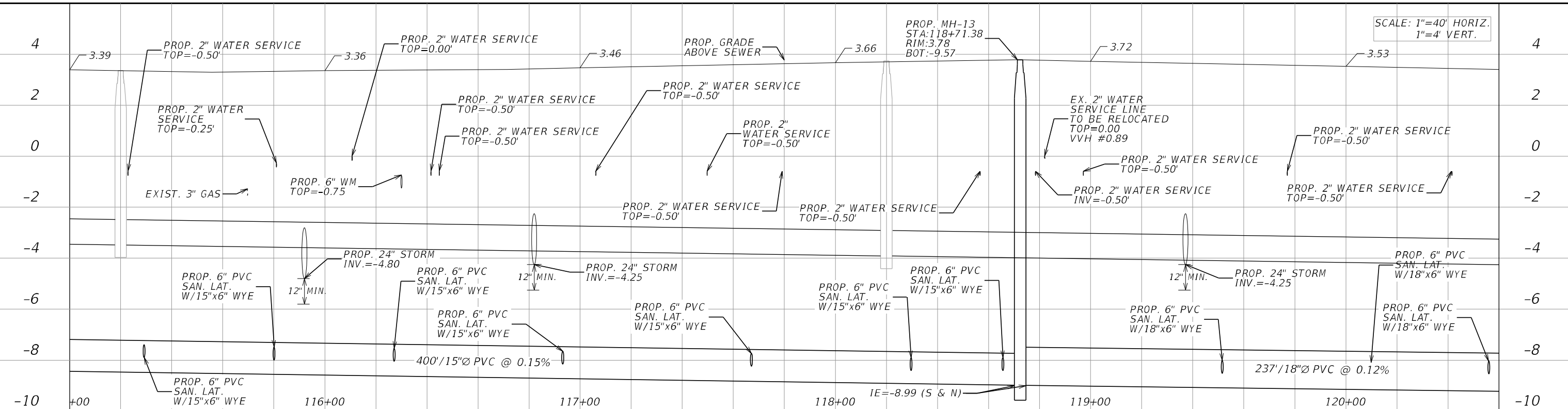
REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

**SANITARY SEWER
PLAN AND PROFILE**

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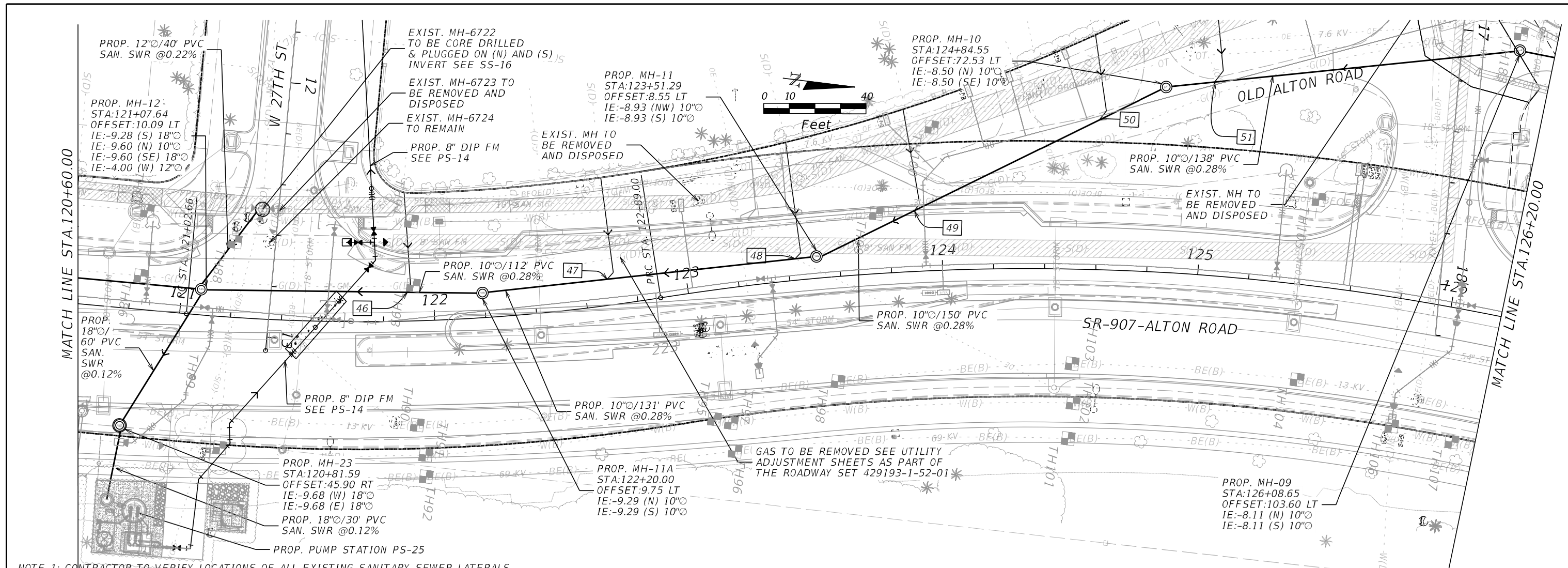
NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



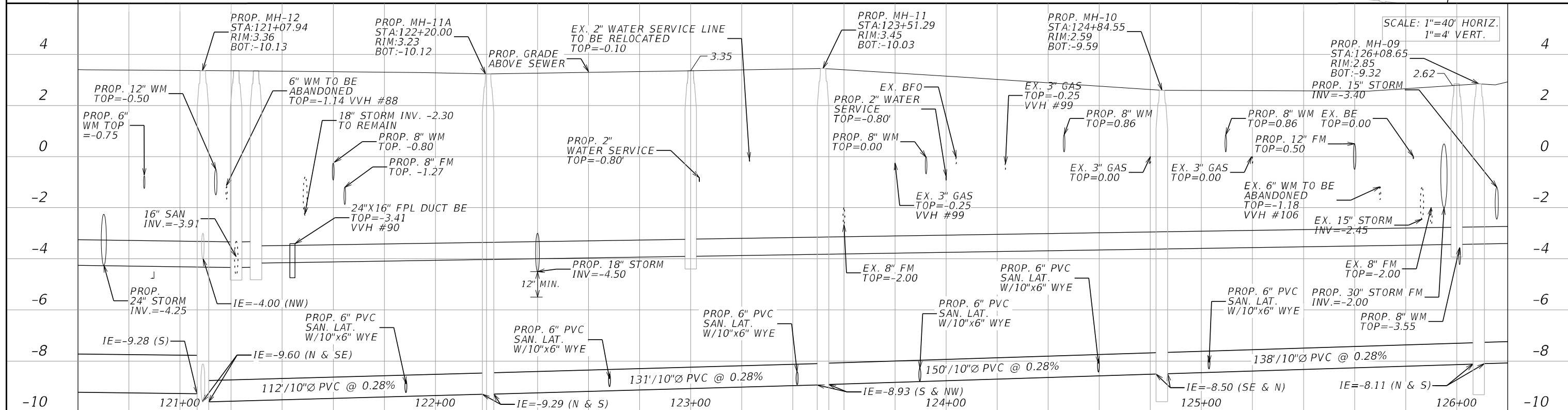
REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

**SANITARY SEWER
PLAN AND PROFILE**

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NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STANTEC CONSULTING SERVICES INC.
 DAVE E. CLARKE, P.E.
 P.E. License No. 66553
 901 Ponce de Leon Blvd., Suite 900
 Coral Gables, Florida 33134 (305)-445-2900

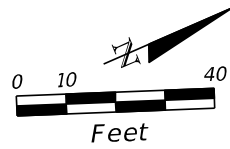
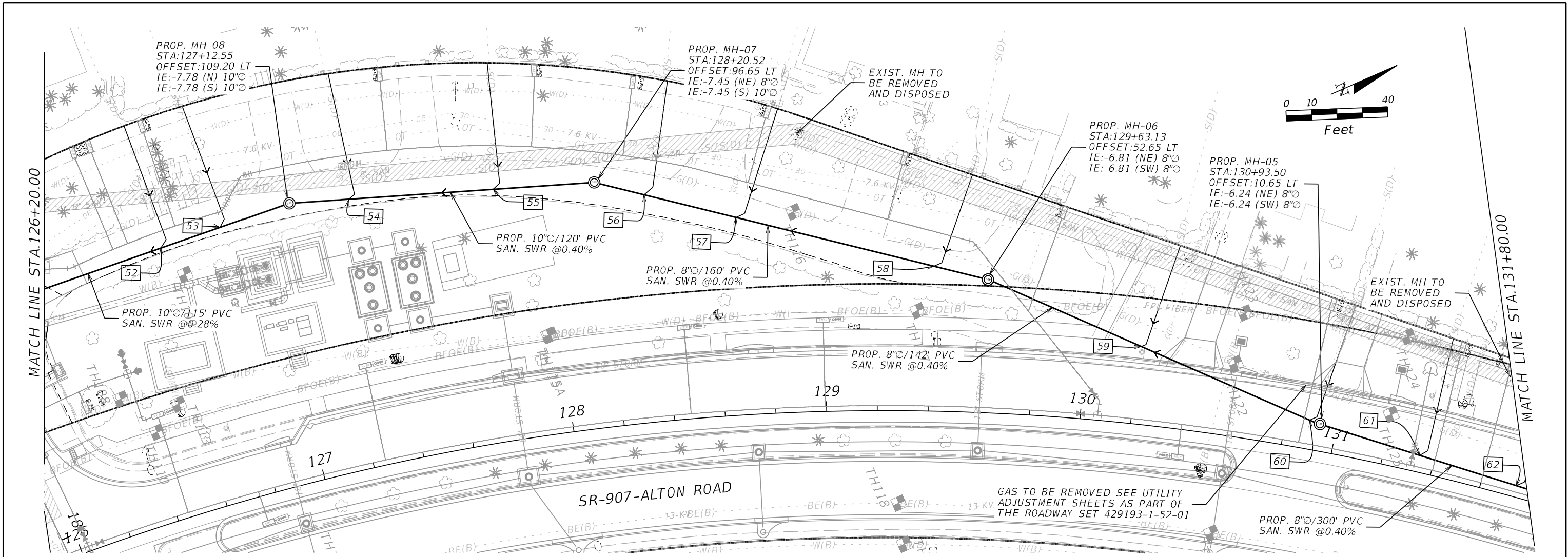
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

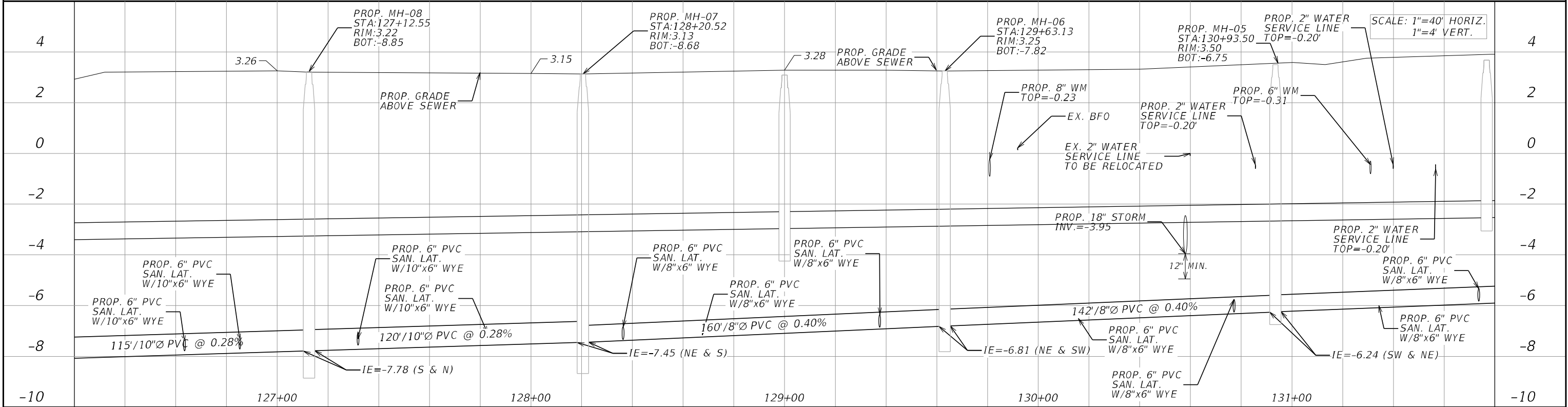
**SANITARY SEWER
 PLAN AND PROFILE**

SHEET NO.
 SS-12

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



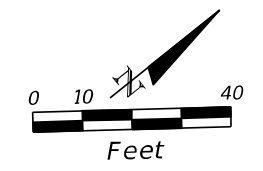
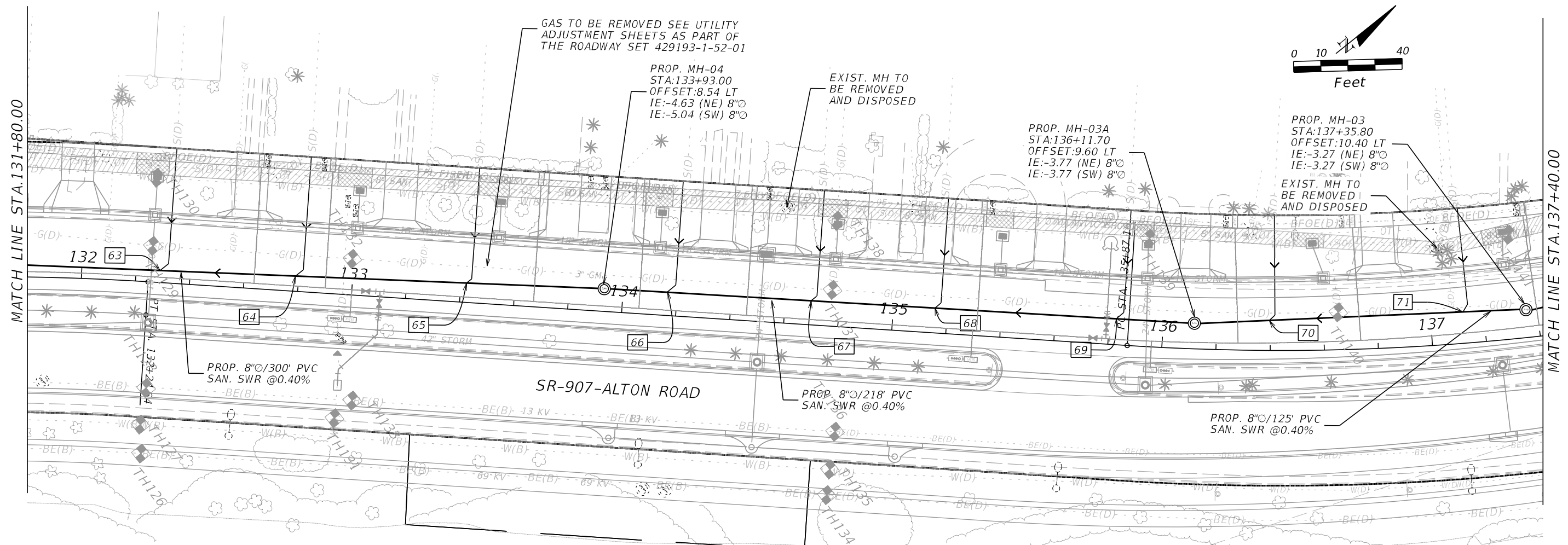
NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



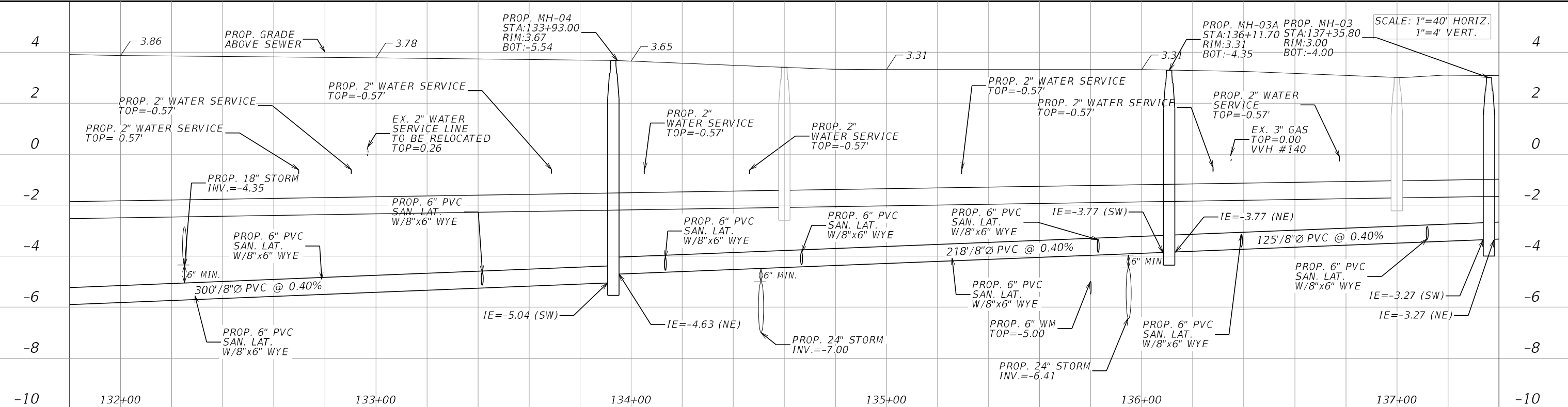
REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

**SANITARY SEWER
PLAN AND PROFILE**

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NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

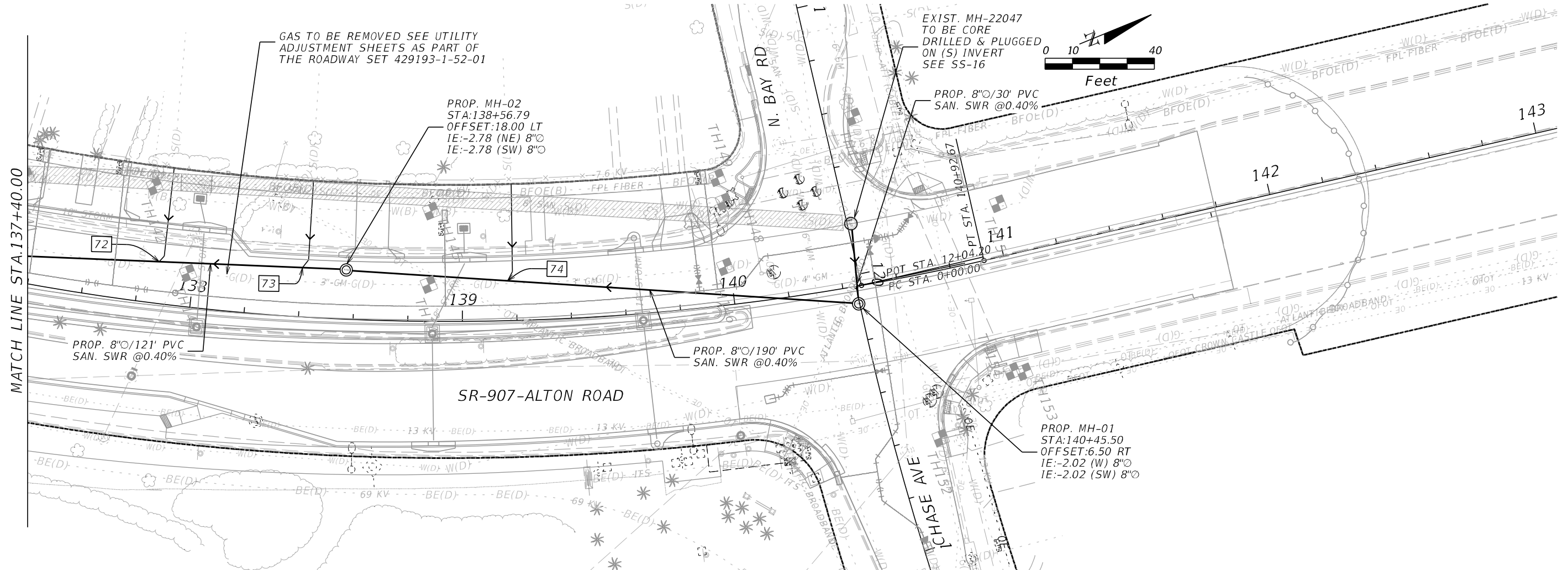
STANTEC CONSULTING SERVICES INC.
 DAVE E. CLARKE, P.E.
 P.E. License No. 66553
 901 Ponce de Leon Blvd., Suite 900
 Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

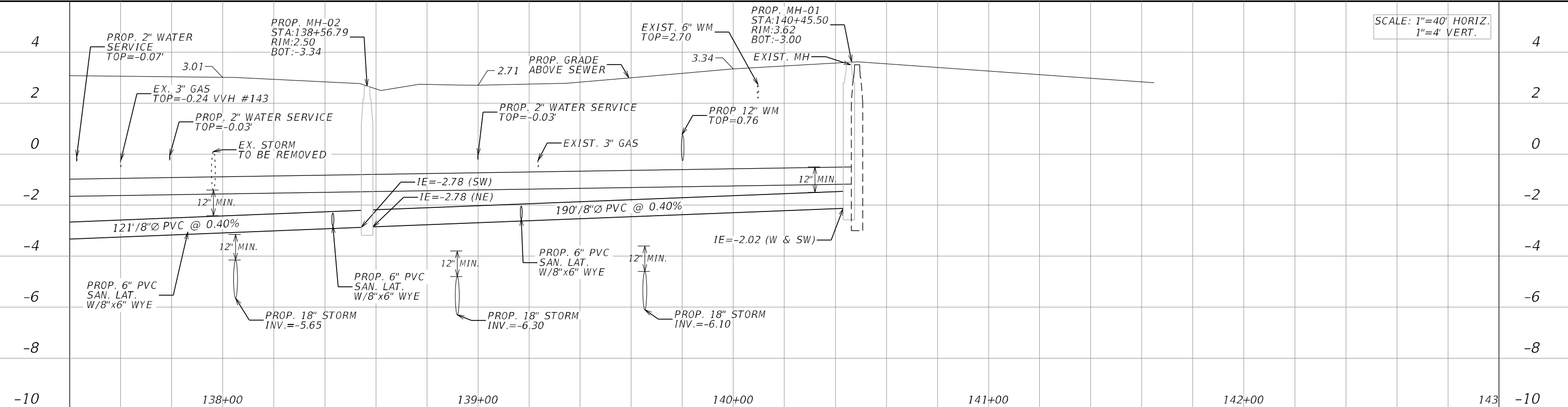
**SANITARY SEWER
PLAN AND PROFILE**

SHEET NO.
SS-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



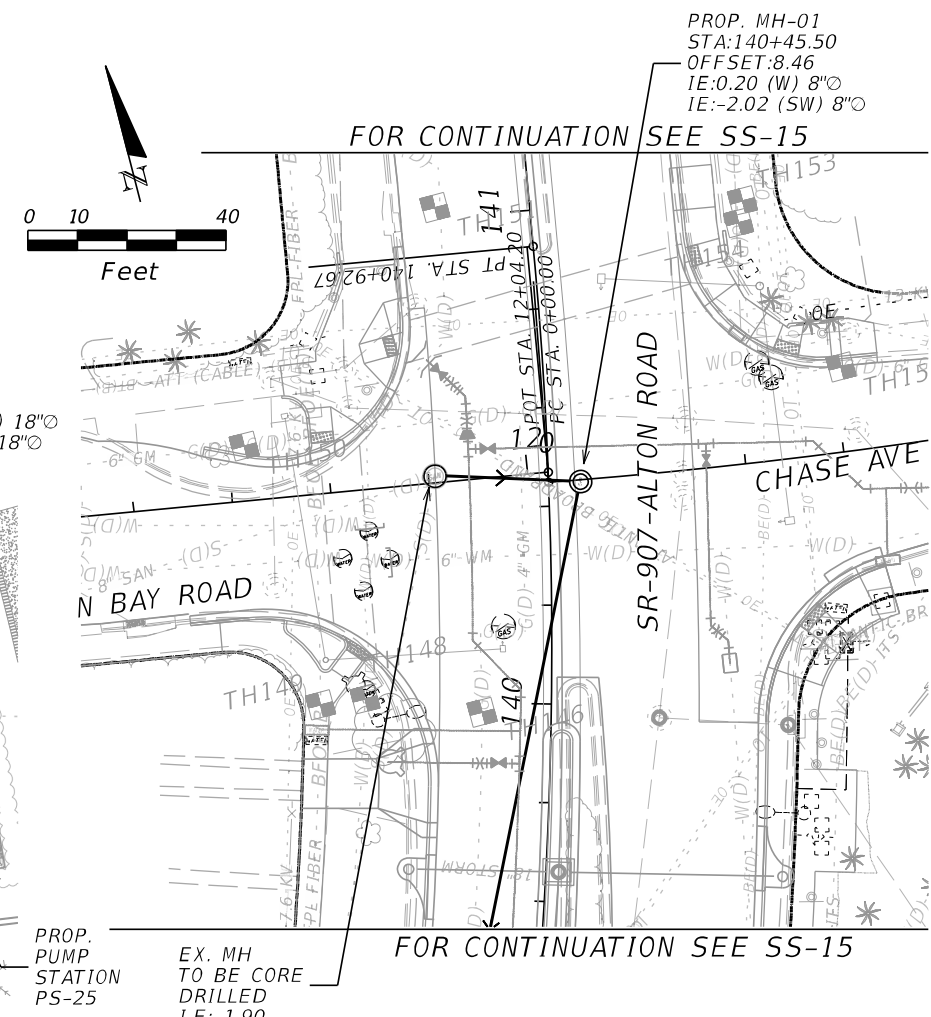
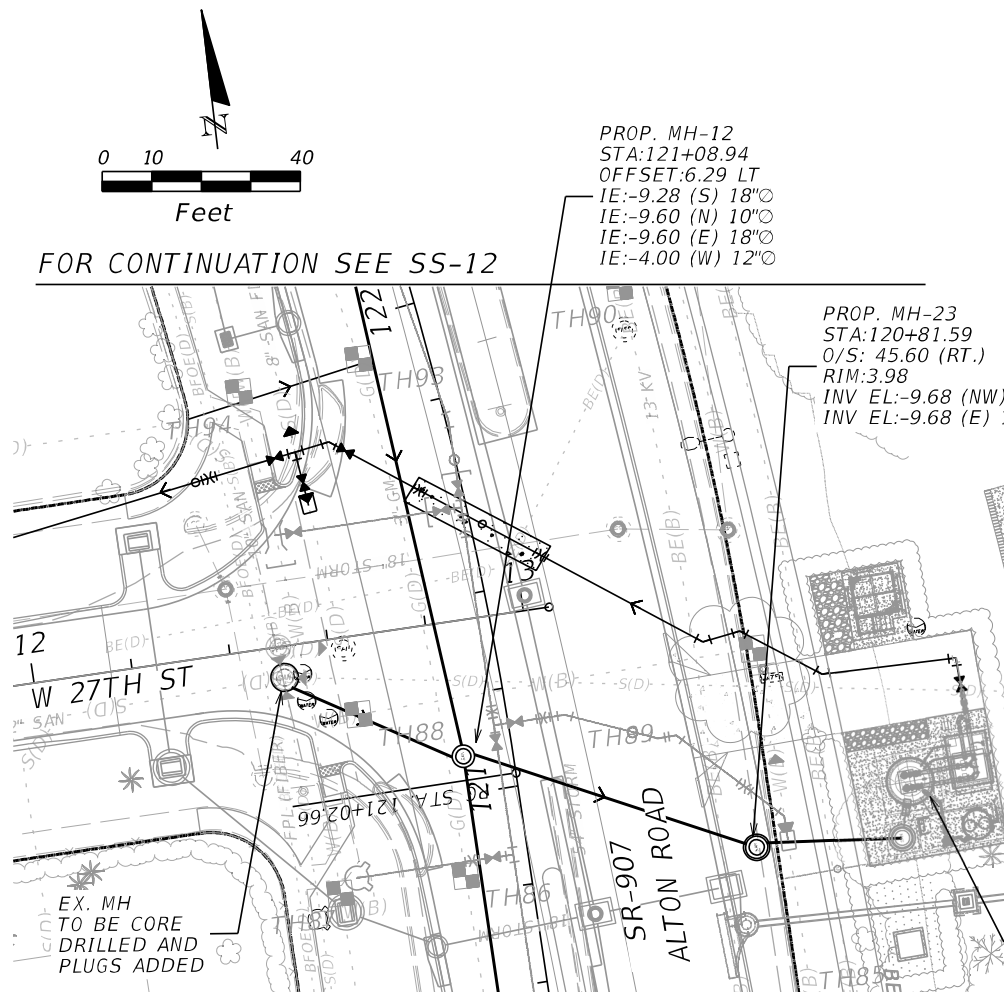
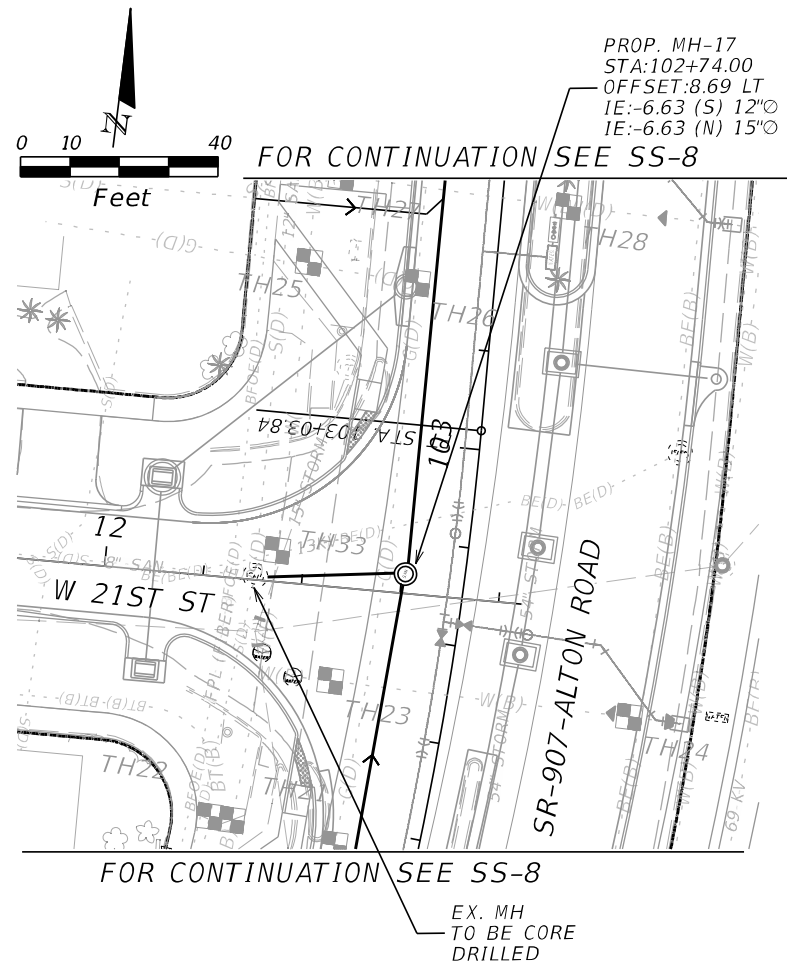
NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS



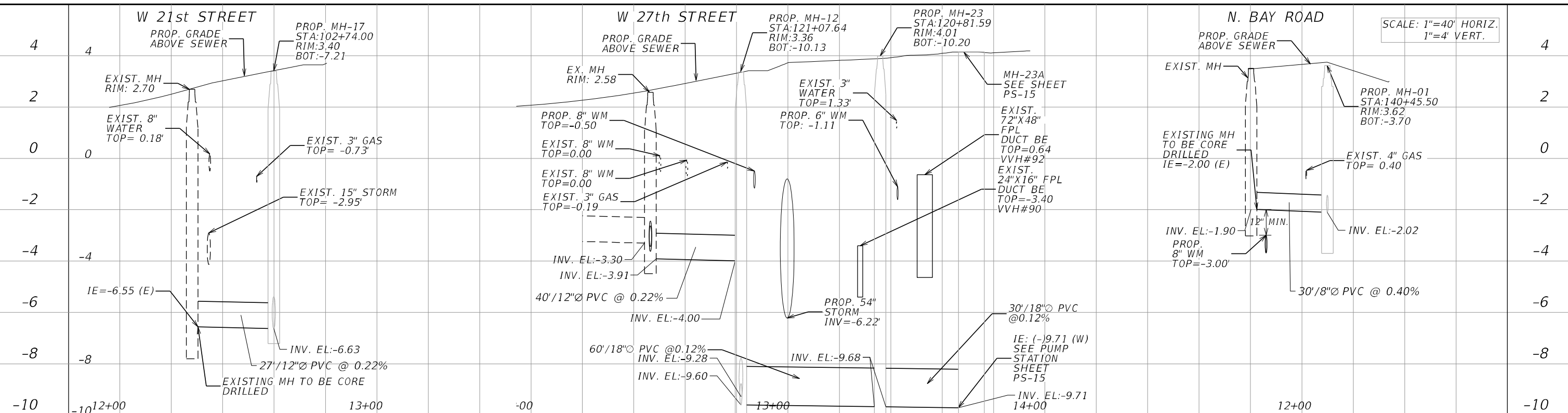
SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

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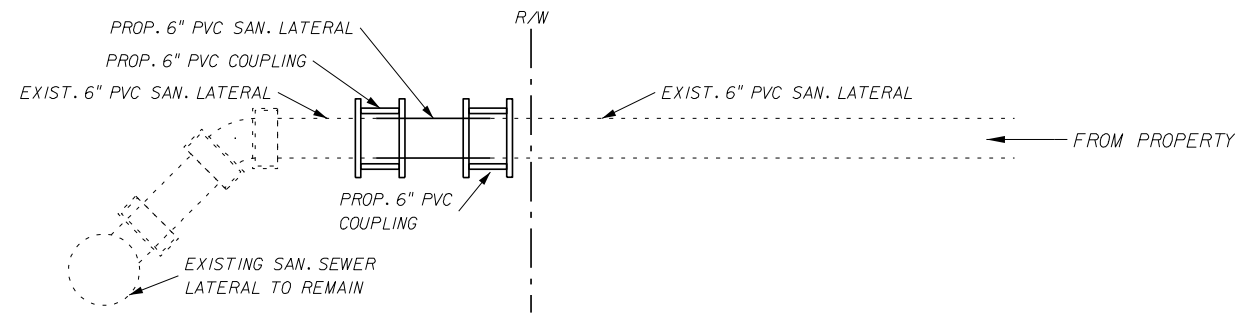


NOTE 1: CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SANITARY SEWER LATERALS

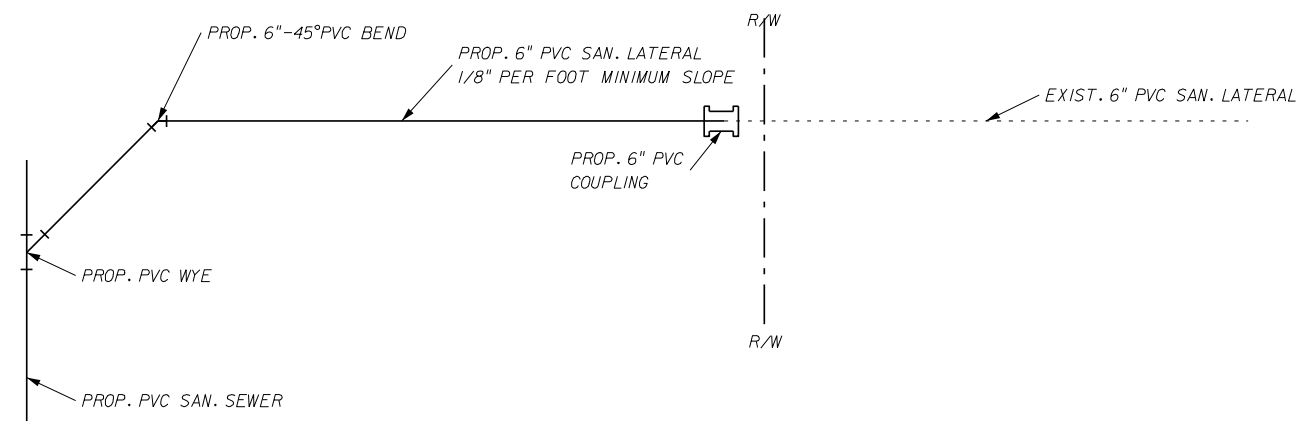


REVISIONS				STANTEC CONSULTING SERVICES INC. DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

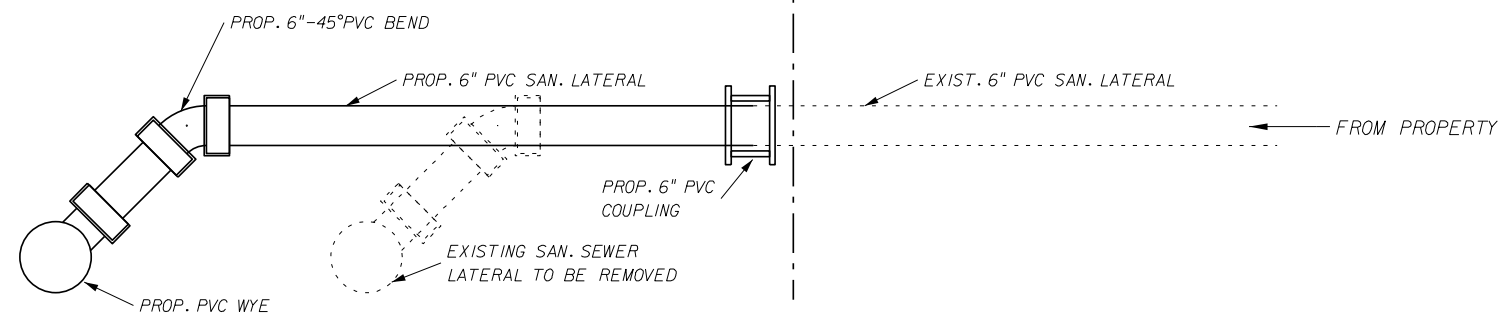
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



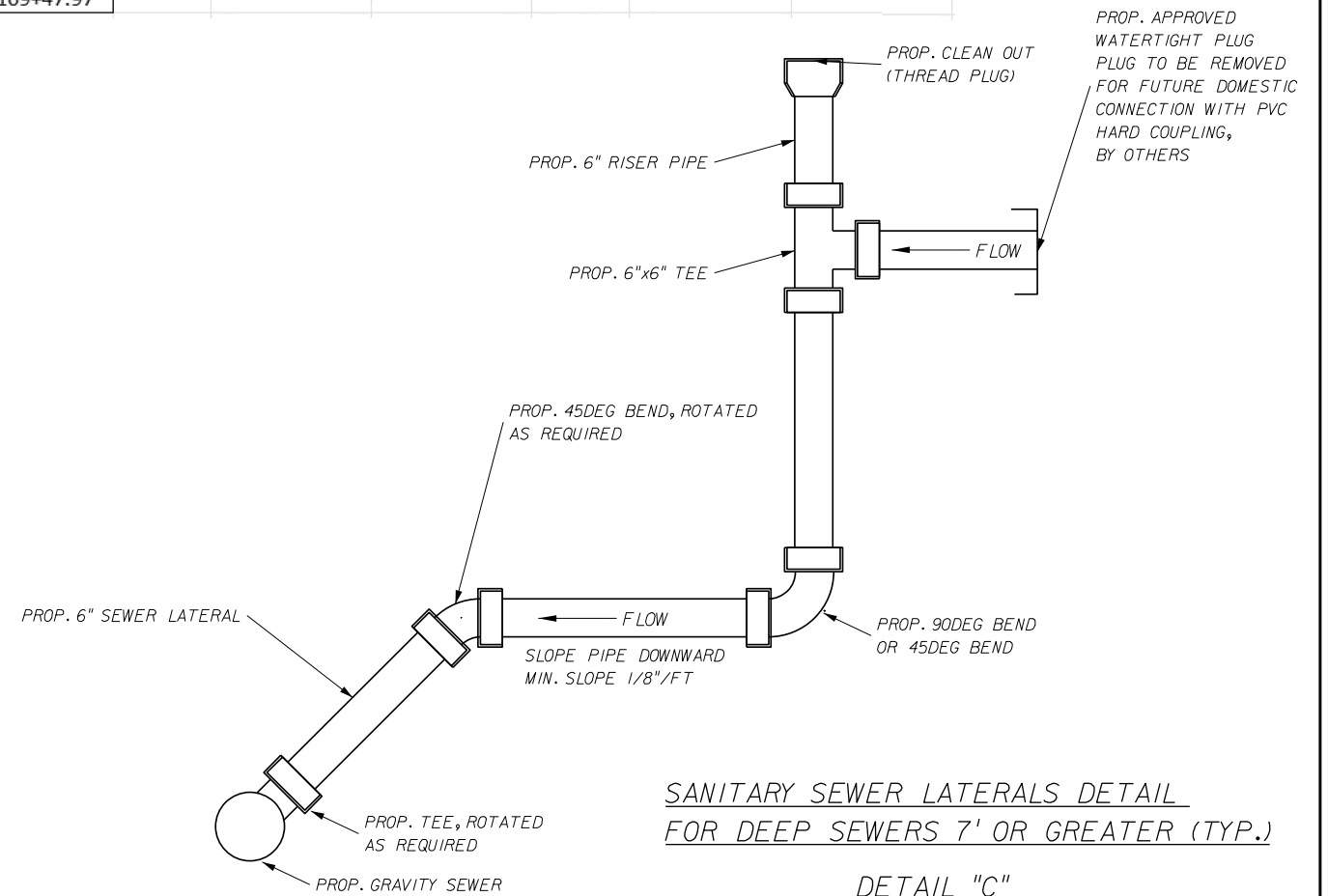
DETAIL "A"
N.T.S.



SANITARY SEWER LATERALS DETAILS (TYP.)



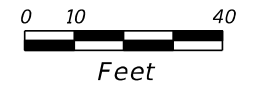
DETAIL "B"
N.T.S.



SANITARY SEWER LATERALS DETAIL
FOR DEEP SEWERS 7' OR GREATER (TYP.)

DETAIL "C"
N.T.S.

Lateral Number	Station	Lateral Number	Station	Lateral Number	Station
1	92+35.77	29	109+93.23	54	127+31.80
2	92+80.18	30	110+53.34	55	127+82.91
3	93+91.45	31	111+42.70	56	128+36.34
4	93+85.99	32	113+14.55	57	128+67.58
5	94+43.44	33	113+65.34	58	129+37.53
6	95+17.80	34	114+25.80	59	130+15.76
7	95+70.00	35	114+80.49	60	130+20.00
8	96+60.00	36	115+35.40	61	131+34.27
9	96+95.36	37	115+80.08	62	131+73.66
10	97+48.76	38	116+36.70	63	132+29.26
11	98+14.71	39	116+93.24	64	132+78.85
12	98+64.50	40	118+13.75	65	133+41.60
13	99+43.32	41	118+29.70	66	134+13.39
14	100+24.08	42	118+65.65	67	134+69.25
15	100+63.10	43	119+51.56	68	135+15.40
16	101+35.86	44	120+9.88	69	135+82.97
17	101+81.26	45	120+59.25	70	136+39.11
18	103+49.82	46	121+88.46	71	137+11.89
19	104+4.48	47	122+68.18	72	137+85.20
20	104+85.51	48	123+41.69	73	138+60.00
21	105+14.00	49	123+89.79	74	139+16.95
22	105+68.49	50	124+59.69	75	108+63.60
23	106+45.70	51	125+2.98	76	113+12.25
24	107+7.86	52	126+63.51		
25	107+72.62	53	126+85.27		
26	108+6.77				
27	108+75.13				
28	109+47.97				



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STANTEC CONSULTING SERVICES INC.
Certificate of Authorization No.: 00027013

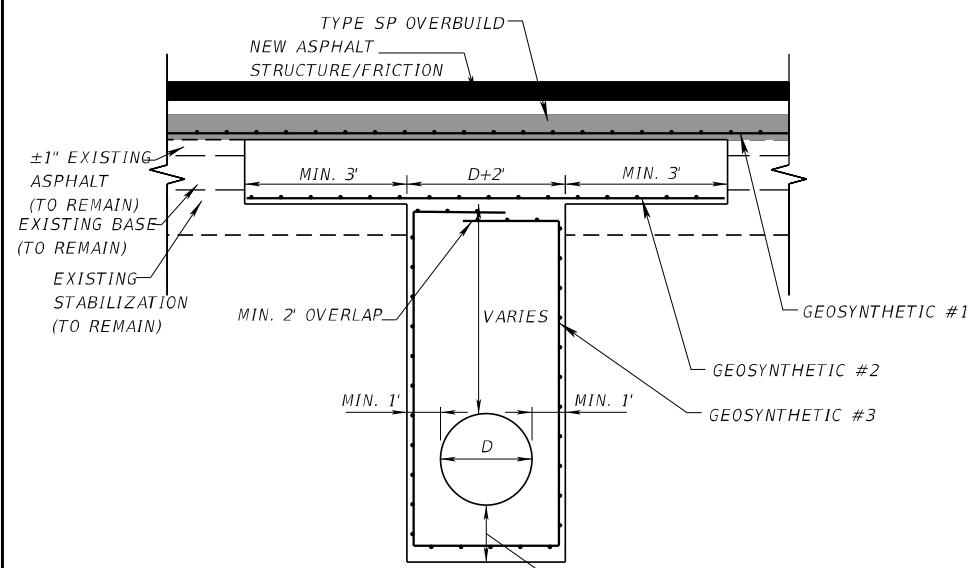
DAVE E. CLARKE, P.E.
P.E. License No. 66553
901 Ponce de Leon Blvd., Suite 900
Coral Gables, Florida 33134 (305) 445-2900

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

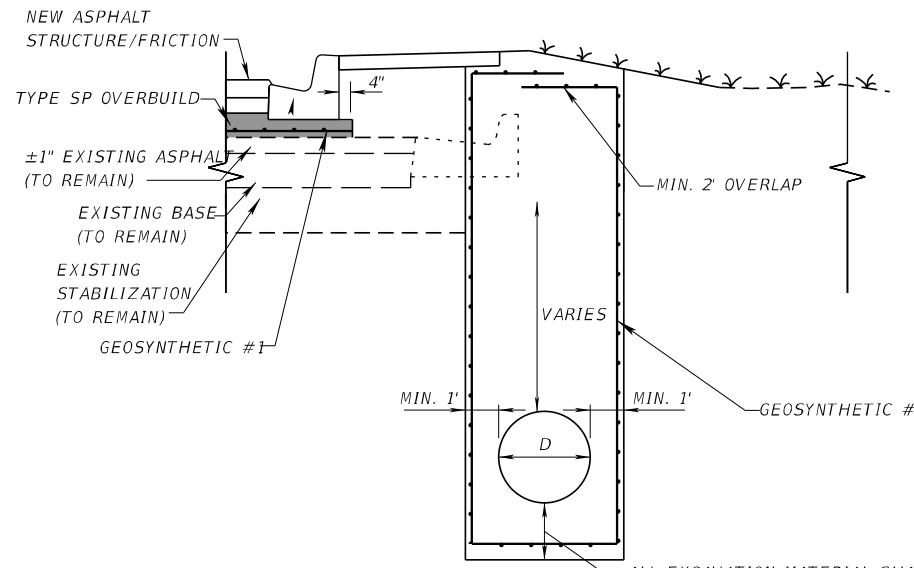
DETAILS

SHEET NO.
SS-18

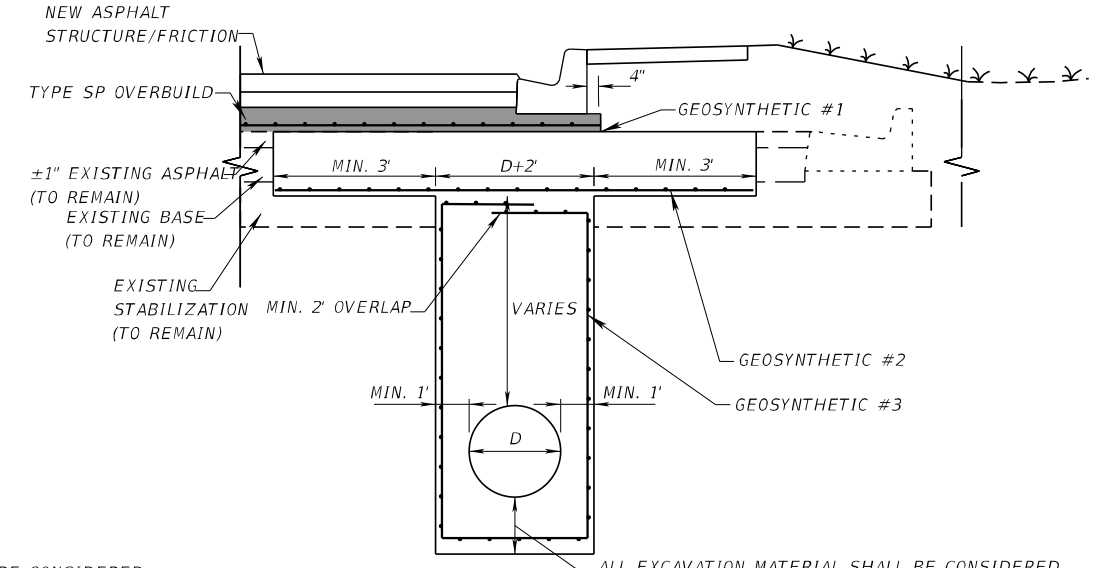
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



DETAIL "D" - SEWER MAIN EXCAVATION AND GEOSYNTHETIC DETAIL
N.T.S.



DETAIL "E" - SEWER MAIN EXCAVATION AND GEOSYNTHETIC DETAIL WHEN TRENCH LIMITS FALL OUTSIDE OF PROPOSED ROADWAY WORK
N.T.S.



DETAIL "F" - SEWER MAIN EXCAVATION AND GEOSYNTHETIC DETAIL WHEN TRENCH LIMITS PARTIALLY FALL WITHIN PROPOSED ROADWAY WORK
N.T.S.

REFER TO GEOTECH REPORT FOR
GEOSYNTHETIC #1, #2 AND #3 MINIMUM PROPERTIES
REFER TO ROADWAY PLANS 429193-1-52-01 FOR
UTILITY TRENCH RESTORATION

REVISIONS				STANTEC CONSULTING SERVICES INC. Certificate of Authorization No.: 00027013 DAVE E. CLARKE, P.E. P.E. License No. 66553 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. SS-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

GENERAL NOTES

1. PRIOR TO INITIATING CONSTRUCTION, CONTRACTOR SHALL REVIEW EXISTING SITE FEATURES (EASEMENTS, PROPERTY LINES, ELEVATIONS, ETC.) AND SHALL IMMEDIATELY REPORT ANY FEATURE NOT COINCIDING WITH EXISTING & PROPOSED SITE PLAN IN WRITING TO THE ENGINEER OF RECORD.
2. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO INITIATING ANY WORK AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS, AS WELL AS THROUGH SUNSHINE ONE CALL 811. INCLUDING BUT NOT LIMITED TO PROCURING THE SERVICES OF AN INDEPENDENT SUBSURFACE UTILITY ENGINEERING FIRM TO PERFORM NON-DESTRUCTIVE/NON-INVASIVE LOCATION OF EXISTING UTILITIES, AS NECESSARY TO PREVENT DAMAGE TO OR INTERRUPTION OF SERVICE(S).
3. CONTRACTOR SHALL MAINTAIN ALL WASTEWATER SYSTEM FLOWS FOR ALL PARTS OF THE EXISTING SYSTEM AFFECTED BY THE WORK AT ALL TIMES DURING CONSTRUCTION BY USING A BYPASS PUMPING SYSTEM, FITTINGS AND VALVES AS REQUIRED. SEE MAINTENANCE OF FLOW SECTION THIS SHEET.
4. CONTRACTOR SHALL PERFORM ALL WORK WITHIN CONSTRUCTION/PROJECT LIMITS AND SHALL NOT DISTURB ADJACENT PROPERTY.
5. CONTRACTOR SHALL INCLUDE NECESSARY CUTTING, PATCHING AND RESTORATION OF ALL EXISTING SURFACES & DISTURBED AREAS TO MATCH SURROUNDING AREAS. RESTORATION SHALL BE APPROVED BY EOR.
6. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6" ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE RELATED BID ITEM.
7. CONTRACTOR SHALL SUBMIT THEIR STAGING AREA TO THE EOR FOR APPROVAL AT THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL OBTAIN ALL REQUIRED CONSTRUCTION EASEMENTS. AS PER CITY OF MIAMI BEACH STANDARDS.
8. REFER TO SPECIFICATIONS FOR SCOPE DETAILS.
9. SCOPE SHALL ALSO INCLUDE BYPASS DURING CONSTRUCTION AS REQUIRED. PROVIDING CONTINUOUS FLOW FOR EXIST. 18" GRAVITY SEWER SHALL BE INCLUDED IN THE CONTRACTOR'S BYPASS PROCEDURE PLAN. CONTRACTOR SHALL INCLUDE COST OF DIESEL PUMPS AS BACK-UP BYPASS SET UP WITH ELECTRIC PRIMARY PUMPS.
10. CONTRACTOR SHALL PROVIDE PROTECTION TO EXIST. TREES. EXIST. INTEGRITY OF TREES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES.
11. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TREE PERMIT (AS NEEDED/REQUIRED) FOR ALL TREE PRUNING AND REMOVING/RELOCATING OF ANY EXISTING TREES WITHIN THE PROJECT SITE.
12. EXCAVATION MUST MEET OSHA REQUIREMENTS AND MUST NOT BE PRESENT IF/WHEN ADJACENT CONCRETE WALL IS EXPERIENCING INTERNAL PRESSURE FROM WATER OR OTHER MEDIUM. SHEET PILING MAY BE REQUIRED FOR EXCAVATION. IF SO, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED PROFESSIONAL ENGINEER.
13. CONTRACTOR SHALL COORDINATE WITH FDOT TO UTILIZE MOT MEASURES PUT FORTH BY FDOT DURING ROADWAY CONSTRUCTION
14. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONSTRUCTION CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
15. SHEET PILING MAY BE REQUIRED FOR EXCAVATION. IF SO, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & CALCULATIONS SIGNED & SEALED BY A STATE OF FLORIDA LICENSED PROFESSIONAL ENGINEER.
16. IN THE EVENT OF LEAD BASE PAINT AND HAZARDOUS AND/OR ASBESTOS CONTAINING MATERIALS ARE ENCOUNTERED DURING DEMOLITION OF EXISTING FACILITIES, CONTRACTOR SHALL STOP WORK AND NOTIFY THE CITY AND EOR FOR FURTHER EVALUATION, AND NOT CONTINUE DEMOLITION UNTIL INSTRUCTED TO PROCEED BY ENGINEER.
17. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS WHEN HANDLING ASBESTOS. CONTRACTOR SHALL USE FACE MASKS, RUBBER GLOVES AND ALL NECESSARY (SKIN AND RESPIRATORY) PROTECTION EQUIPMENT REQUIRED BY DEPARTMENT OF ENVIRONMENTAL RESOURCE MANAGEMENT (DERM) WHEN WORKING AROUND THE ASBESTOS PIPE. ALL DEBRIS AND RUBBER TO BE DISCARDED IN PLASTIC BAGS AS HAZARDOUS WASTE OR AS REQUIRED BY DERM. ALL CONSTRUCTION EQUIPMENT SHALL BE WETTED DOWN AFTER EACH USE.
18. ALL UNDERGROUND PIPING SHALL BE MECHANICAL JOINT RESTRAINED PIPE.
19. ALL PAVEMENT ELEVATIONS SHALL BE MATCHED AFTER RESTORATION.
20. PUMP STATION DESIGN IS IN ACCORDANCE WITH FOLLOWING REQUIREMENTS FLOOD DESIGN CLASS III, FLOOD ZONE IN AE (BASE FLOOD ELEVATION AT 8FT NGVD), MIN DESIGN FLOOD ELEVATION (DFE) LEVELS AT 10.75FT NGVD (9.2FT NAVD)

21. PROPOSED DEVELOPMENT SITE IS SITUATED IN PORTION OF MIAMI BEACH GOLF CLUB (BAYSHORE GOLF COURSE) LYING EAST OF ALTON RD. (SR907) AND W 27TH STREET. PROPERTY ADDRESS IS LOCATED AT MIAMI BEACH GOLF CLUB (BAYSHORE GOLF COURSE), 2301 ALTON ROAD, MIAMI BEACH, FLORIDA, 33140.
22. IF TEMPORARY STEEL SHEET PILES ARE USED FOR EXCAVATION SUPPORT, IT SHOULD BE NOTED THAT SHEET PILE REFUSAL MAY OCCUR ON A RANDOM AND UNPREDICTABLE BASIS SINCE ZONES OF DENSE SOILS AND RELATIVELY HARDER ROCK MATERIALS NOT REVEALED BY THE TEST BORINGS MAY BE ENCOUNTERED. IT IS THEREFORE RECOMMENDED THAT PREDRILLING BE CONSIDERED PRIOR TO THE INSTALLATION OF THE SHEET PILES. PREDRILLING IS REQUIRED IN ORDER TO PREVENT REFUSAL CONDITIONS, EXCESSIVE VIBRATIONS, NOISE LEVELS THAT MAY BE CONSIDERED DISTURBING TO PEOPLE, AND DAMAGE OR SETTLEMENT TO NEARBY STRUCTURES. PREDRILLING SHALL BE PERFORMED BY APPROPRIATE MEANS INCLUDING, BUT NOT BE LIMITED TO, PRE-AUGERING OR PUNCHING WITH A POINTED STEEL PUNCH OR H PILE, WITHOUT PRODUCING ANY OF THE UNACCEPTABLE LEVELS OF VIBRATION AS SPECIFIED IN FDOT SECTION 455-1.1. THE METHOD OF PREDRILLING SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER IN ADVANCE OF ANY SUCH OPERATIONS. FOLLOWING PREDRILLING, THE SHEET PILES SHOULD BE SET IN PLACE AND VIBRATED TO THE REQUIRED TIP ELEVATIONS.
23. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS FOR SHEET PILE COFFERDAM, BY A SPECIALTY LICENSED FLORIDA STRUCTURAL ENGINEER. SUBMITTAL SHALL BE REVIEWED AND APPROVED BY FDOT, THE CITY, AND EOR.
24. CONTRACTOR SHALL INSTALL TEMPORARY BARRIER PER FDOT STANDARD DETAIL 102-100 ONCE TEMPORARY SHEET PILE COFFERDAM IS INSTALLED.
25. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT BY UNIVERSAL ENGINEERING SCIENCES (UES) DATED JULY 14, 2023
26. GEOTECHNICAL REPORT PROVIDES SOIL INFORMATION IN THE VICINITY OF THE PROJECT. METHOD OF EXCAVATION AND STABILIZATION OF DEEP HOLES ARE MEANS AND METHODS OF THE CONTRACTOR, WITH SHEET PILING TO BE THE PREFERABLE OPTION. HOWEVER, IF CONTRACTOR CHOOSES TO EXCAVATE WITHOUT STABILIZING THROUGH THE USE OF SHEET PILES IT IS DONE AT THEIR OWN DISCRETION WITHOUT ANY ADDITIONAL COMPENSATION.
27. CONTRACTOR TO HAVE EXTREME CAUTION WORKING AROUND GAS LINE. GAS LINE IS TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. ANY POTENTIAL CONFLICTS SHALL BE IDENTIFIED AND DIRECTED TO EOR, CITY, FDOT AND UTILITY COMPANY.
28. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
29. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS FROM DEMOLITION AT CONTRACTORS EXPENSE.
30. THE CONTRACTOR SHALL DISPOSE OF ALL NON-ORGANIC WASTES SUCH AS OLD GUNITE, PIPING, ROCK RUBBLE, ETC., AT AN APPROVED LANDFILL OR OTHER SUITABLE DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE.
31. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.
32. CONTRACTOR SHALL COMPLY WITH THE LOCAL APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS AREA. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST FEDERAL, STATE AND LOCAL AGENCY REGULATORY REQUIREMENTS.
33. CONTRACTOR SHALL SUBMIT STAGING AREA REQUEST AS A SHOP DRAWING FOR APPROVAL FROM OWNER AND ENGINEER. ALL EQUIPMENT AND UNUSED MACHINERY SHALL BE STORED WITHIN ACCEPTED STAGING AREA.
34. CONTRACTOR SHALL SUBMIT AN ACCESS PLAN TO THE EOR AND OWNER FOR REVIEW. ACCESS ROUTE SHALL BE RESTORED AS REQUIRED AT THE END OF CONSTRUCTION AND ACCEPTED BY THE CITY, FDOT AND EOR.
35. CONTRACTOR SHALL PROVIDE AN EXTERNAL COATING TO THE INFLUENT MANHOLE WITH TWO COATS, EACH 10MM THICK, OF BITUMINASTIC 300M COAL TAR EPOXY, OR APPROVED EQUAL. THE INTERIOR SHALL BE LINED WITH WETWELL LINER PER SPECIFICATIONS.
36. UTILITIES AND EQUIPMENT ARE DESIGNED AND SHALL BE BUILT IN ACCORDANCE WITH ASCE 24-14 SECTION 7.
37. STRUCTURAL ELEMENTS, PLUMBING SYSTEM, AND COMPONENTS EMERGING FROM UNDERGROUND ARE DESIGNED AND SHALL BE CONSTRUCTED, ANCHORED, AND PROTECTED, TO WITHSTAND FLOOD-RELATED, INCLUDING THE EFFECT OF BUOYANCY, HYDRODYNAMIC FORCES, AND DEBRIS IMPACT.
38. CONTRACTOR SHALL COMPLY WITH MINIMUM REQUIREMENT SET BY THE CITY OF MIAMI BEACH PUBLIC WORKS MANUAL (2025).

UTILITIES

1. PRIOR TO INITIATING CONSTRUCTION, CONTRACTOR SHALL REVIEW EXISTING SITE 1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE FOR EXISTING UTILITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS FOR POINTS OF CONNECTIONS.
2. THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES.
3. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
4. PRIOR TO ANY WORK THAT COULD AFFECT AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER. PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES NOT LESS THAN 3 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. IN THE CASE OF THE UNDERGROUND UTILITY SERVICE ALERT CENTER, THIS NOTICE WILL GIVE THEM TIME TO MARK THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL OR LOCAL UNDERGROUND SERVICE ALERT COMPANY AT LEAST 3 DAYS, BUT NO MORE THAN 7 DAYS, PRIOR TO SUCH EXCAVATION.
5. EXCAVATION, BEDDING, PLACEMENT, AND BACKFILLING FOR UNDERGROUND UTILITIES SHOULD BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
6. DENSITY TESTS SHOULD BE PERFORMED TO VERIFY THE REQUIREMENTS OF THE FDOT SPECIFICATIONS HAVE BEEN MET.
7. FILL SHALL BE INORGANIC (CLASSIFIED AS SP/SW) CONTAINING NO MORE THAN 5% (BY WEIGHT) FIBROUS ORGANIC MATERIALS. FILL MATERIALS WITH SILT-SIZE SOIL FINES IN EXCESS OF 10% SHALL NOT BE USED, THIS INCLUDES CYCLONE SAND MATERIAL.
8. PLACE FILL AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) WITH A TAMPER.

PIPING

1. THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPARTMENT OF WASD AND MB-PW HEALTH SERVICES CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 INCHES OF COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
3. STRAIGHT SLOPES SHALL BE MAINTAINED FOR GRAVITY SEWERS BETWEEN INVERT ELEVATIONS SHOWN OR SPECIFIED.
4. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED. MANHOLES IN OPEN FIELDS SHALL BE SET ONE FOOT ABOVE GRADE. APPROXIMATE RIM ELEVATIONS ARE SHOWN ON DRAWINGS.
5. ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH MIAMI BEACH PUBLIC WORKS DEPARTMENT STANDARD DETAIL 15-5 FOR FLEXIBLE PIPE.
6. ABANDON PIPE LINES TO BE GROUT FILLED OR REMOVED
7. THE PIPING SHOWN ON THESE PLANS SHALL BE RESTRAINED JOINT DESIGN AT ALL SLEEVE TYPE COUPLINGS.
8. THE CONTRACTOR SHALL PROVIDE TWO FLEXIBLE SLEEVE TYPE COUPLINGS WITH RESTRAINED JOINTS FOR EACH PIPE PENETRATING A STRUCTURE. THE COUPLINGS AND FLEXIBLE JOINTS SHALL BE BETWEEN 3-FEET AND 8-FEET AWAY FROM THE STRUCTURE. ALL PIPING SHALL BE RESTRAINED JOINT DESIGN UNLESS INDICATED OTHERWISE. COUPLINGS AND RESTRAINED JOINTS SHALL BE PROVIDED WHETHER SHOWN ON THE DRAWINGS OR NOT. STEEL PIPE RESTRAINED HARNESS SETS SHALL BE PROVIDED IN ACCORDANCE WITH AWWA M-11. ALL OTHER PIPES, COUPLINGS AND RESTRAINED JOINTS SHALL BE APPROVED BY THE ENGINEER. ALL RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS' RECOMMENDATIONS.
9. ALL DUCTILE IRON PIPING SHALL BE ZINC COATED EXTERNALLY AND POLY WRAPPED IN ACCORDANCE WITH AWWA C-105.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

SEWER PS 25
GENERAL NOTES - I

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EROSION CONTROL

1. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR WORK DURING THE CONSTRUCTION, SIGNED AND STAMPED BY A REGISTERED ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 - A. ALL SLOPES SHALL BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND THEREAFTER, UNTIL INSTALLATION OF FINAL GROUND COVER (SEE LANDSCAPE PLANS FOR FINAL GROUND COVER).
 - B. ALL SLOPE PROTECTION SWALES SHALL BE CONSTRUCTED AT THE SAME TIME AS BANKS ARE GRADED.
 - C. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE CITY, DISTRICT, OR OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING, MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.
2. EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. PROTECT MATERIAL STOCKPILES FROM CONTRIBUTING TO SEDIMENT RUNOFF.
4. ANY SOIL, MUD, OR DEBRIS WASHED, TRACKED OR DEPOSITED ONTO PAVED SURFACES SHALL BE REMOVED PRIOR TO THE END OF EACH WORK DAY.
5. CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL UNTIL PROJECT COMPLETION.
6. THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROTECTED SITE:
 - A. DISCHARGE OF MATERIALS TO SURFACE WATERS:

NO CONSTRUCTION MATERIAL SHALL BE DISCHARGED TO WATERS OF THE STATE UNLESS AUTHORIZED BY A SECTION 404 PERMIT AND/OR A STATE OF FLORIDA ENVIRONMENTAL RESOURCE PERMIT. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON-SITE.
 - B. OFF-SITE VEHICLE TRACKING AND DUST CONTROL:
 - THE CONTRACTOR SHALL TAKE MEASURES TO ENSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORMWATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.
 - STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
 - LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN.
 - D. CONCRETE TRUCKS SHALL NOT BE WASHED OUT AT SITE. CONTRACTOR SHALL INDICATE IN WRITING TO THE ENGINEER THE LOCATION AT WHICH CONCRETE TRUCKS WILL BE WASHED OUT.
7. SPILL KIT MUST BE PROVIDED ON SITE DURING ENTIRE DURATION OF PROJECT OR UNTIL REMOVAL IS APPROVED BY OWNER. SPILL KIT MUST BE APPROPRIATE FOR SCOPE OF WORK & EQUIPMENT ONSITE.
8. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE EROSION CONTROL MEASURES TO PREVENT CLOGGING OF EXISTING DRAINAGE STRUCTURES AND SEDIMENT INTRUSION INTO WATERWAYS DURING CONSTRUCTION. THESE MEASURES SHALL BE APPROVED BY THE ENGINEER AND CONFORM WITH CURRENT EDITION OF THE FDOT DESIGN STANDARDS FOR EROSION CONTROL (100 SERIES).
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST OF REMOVING THE WATER SHALL BE INCLUDED IN PAY RELATED BID ITEM.
10. CONTRACTOR SHALL CLEAN EXISTING DRAINAGE SYSTEM IN ITS ENTIRETY PRIOR TO FINAL SITE APPROVAL. CLEANING SHALL INCLUDE:
 - 10.1. VACUUM OF ALL STRUCTURES WITHIN CONSTRUCTION LIMIT
 - 10.2. JET CLEANING OF CONNECTING DRAINAGE PIPES
 - 10.3. CCTV OF DRAINAGE PIPES AND PROVIDE CDs TO OWNER AND ENGINEER FOR APPROVAL AT END OF CONSTRUCTION

MECHANICAL NOTES

1. ALL MECHANICAL PRODUCTS SHALL BE PART OF CITY OF MIAMI BEACH APPROVED PRODUCT LIST UNO. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITIES IN APPLICATIONS, ELEVATION, AND QUALITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING PIPING TO REMAIN BEFORE ORDERING NEW PIPE AND FITTINGS FOR CONNECTION. THE CONTRACTOR SHALL INSPECT AND VERIFY ALL SITE CONDITIONS AND DIMENSIONS, AND COORDINATE WITH OTHER TRADES PRIOR TO CONSTRUCTION. WORK SHALL BE SCHEDULED ACCORDING TO SPECIFIED CONSTRUCTION SEQUENCE.

2. CARE SHOULD BE TAKEN TO AVOID DISTURBING EXISTING ELECTRICAL SERVICE IN THE AREA UNDER CONSTRUCTION.
3. ALL ELEVATION FOR EXISTING UNDERGROUND UTILITIES SHOWN ARE T.O.P. ELEVATIONS UNLESS OTHERWISE SPECIFIED.
4. ALL PIPING, UNLESS SPECIFIED, TO USE DUCTILE IRON WITH LINING OF SEWER APPLICATION. FITTINGS AND CONNECTIONS UNDERGROUND TO USE MECHANICAL JOINT WITH RESTRAINTS; FITTINGS ABOVE GROUND OR IN VAULT TO USE FLANGE JOINT, OR MECHANICAL JOINT WITH RESTRAINTS. (THIS NOTE SPECIFICALLY DOES NOT APPLY TO THE GAS PIPING.)
5. APPLY ALL UNDERGROUND FITTING WITH BOLT CONNECTIONS IN DIRECT CONTACT WITH SOIL WITH TWO COATS OF BITUMASTIC OR APPROVED EQUAL. PROVIDE DIELECTRIC FITTINGS BETWEEN TWO DIFFERENT PIPING MATERIALS.
6. PIPE SUPPORTS SHALL BE TYPE 304 OR 316, AS SHOWN, HOT-DIP GALVANIZED AFTER FABRICATION.
7. ALL PUMP CONTROLS SHALL BE SET AS PER DESIGN REQUIREMENTS.
8. PROVIDE DIELECTRIC FITTINGS BETWEEN TWO DIFFERENT MATERIAL AS REQUIRED.
9. HDPE TO HDPE CONNECTION SHALL BE BY THERMAL BUTT FUSION IN ACCORDANCE WITH THE PIPE MANUFACTURER AND FUSION EQUIPMENT PROVIDER, AND BY A CONTRACTOR WITH A MIN. 5 YEARS EXPERIENCE.

DATUM

1. ELEVATIONS SHOWN HEREON REFERENCE TO NAVD88. CONVERSION TO NGVD29, ADD 1.55 FEET TO NAVD88 MEASUREMENT.
2. ALL ELEVATIONS INDICATED ARE BASED ON THE TOPOGRAPHIC SURVEY PERFORMED BY LONGITUDE HADONNE SURVEYORS, INC. DATED NOVEMBER 28, 2022.

MAINTENANCE OF FLOW

1. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES, FOR MAINTENANCE OF WASTEWATER FLOWS FOR PARTS OF THE SYSTEM AFFECTED BY THE WORK INCLUDING, BUT NOT LIMITED TO LOCATIONS DOWNSTREAM AND UPSTREAM OF THE PROJECT LIMITS.
2. CONTRACTOR SHALL OBTAIN TEMPORARY POWER FROM FPL OR OWNER AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION AND COSTS WITH FPL.
3. CONTRACTOR TO PROVIDE AN ELECTRIC DRIVEN PUMP AND A BACKUP DIESEL BYPASS PUMPING SYSTEM TO MAINTAIN SEWER FLOW THROUGHOUT PROJECT.
 - 3.1. BYPASS PUMPS SHALL HAVE A CAPACITY OF 542 GPM AT 20 FEET TDH
 - 3.2. BYPASS PUMPING SYSTEM SHALL HAVE 1.5 TIMES THE RATED CAPACITY OF THE STATION, AS WELL AS A SECONDARY BACK-UP BYPASS PUMPING SYSTEM OF THE SAME SIZE.
4. BYPASS EMERGENCY RESPONSE TIME:
 - 4.1. BYPASS PUMP SHALL BE CONFIGURED WITH ALARM AND COMMUNICATION FEATURE ALLOWING CONTRACTOR TO RESPOND WITHIN ONE (1) HOUR.
 - 4.2. CONTRACTOR SHALL RESPOND TO ANY AND ALL ISSUES RELATED TO BYPASS PUMPING, INCLUDING ALARM ALERTS. ALL ISSUE AND ALARM EVENTS SHALL BE REPORTED AND COMMUNICATED TO THE CITY, FDOT AND ENGINEER.
 - 4.3. ANY BYPASS OR MANHOLE OVERFLOWS SHALL BE NOTIFIED TO THE OWNER WITHIN TWO (2) HOURS OF THE INCIDENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF THE SITE ACCORDING TO CLEANUP REQUIREMENTS STATED IN CONTRACT DOCUMENTS AND TO OWNER'S SATISFACTION. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL INCLUDE COST OF DIESEL PUMPS FOR PRIMARY AND BACK-UP USE, IN CASE FPL POWER IS NOT READY BY START OF CONSTRUCTION.
6. DIESEL PUMPS SHALL HAVE SOUND ATTENUATED ENCLOSURES TO PREVENT THE PUMPS FROM EXCEEDING LOCAL NOISE ORDINANCES.
7. BYPASS SYSTEM SHALL INCLUDE CONTROLS CONNECTED TO AN AUTODIALER TO NOTIFY CONTRACTOR, OWNER, AND ENGINEER IF BYPASS SYSTEM FAILS TO RUN OF SEWER SYSTEM LEVELS EXCEED A HYDRAULIC GRADE LINE, AS PREDETERMINED BY THE PROJECT DELIVERY TEAM, IN THE SYSTEM.
8. BYPASS PLAN SHALL IDENTIFY: DURATION OF SHUT DOWN, STATIONS, MANHOLES, AND SYSTEM COMPONENTS AFFECTED BY THE WORK, NUMBER OF PUMPER TRUCKS TO BE PROVIDED BY CONTRACTOR, LOCATION FOR WHERE PUMPER TRUCKS CAN DISCHARGE, WHETHER WORK WILL OCCUR DURING DAY OR NIGHT. IF AT NIGHT, THEN CONTRACTOR SHALL SUBMIT A NIGHT TIME WORK PLAN FOR REVIEW AND ACCEPTANCE BY OWNER.
9. CONTRACTOR SHALL SUBMIT A MAINTENANCE OF FLOW PLAN OUTLINING IN DETAIL HOW THE CONTRACTOR WILL MAINTAIN AND MANAGE WASTEWATER FLOWS WHEN AND WHILE THE PUMP STATION IS OUT OF SERVICE, FOR REVIEW AND ACCEPTANCE BY THE ENGINEER AND OWNER PRIOR TO COMMENCING THE WORK.

10. REMOVE BYPASS PUMPS AND TEMPORARY POWER AFTER LIFT STATION HAS BEEN ACCEPTED AND CERTIFIED BY OWNER, EOR, AND DERM COUNTY ENVIRONMENTAL ENGINEERING AND PERMITTING DIVISION. THIS WILL OCCUR AFTER START-UP PASSES AND 1-WEEK ACCEPTANCE PERIOD.
11. SEE SPECIFICATIONS FOR BYPASS PUMPING SYSTEM REQUIREMENTS AND SHUTDOWN REQUIREMENTS.
12. CONTRACTOR TO BURY BYPASS PUMP'S HOSES DURING CONSTRUCTION WHERE VEHICULAR TRAFFIC IS ANTICIPATED OR AS REQUIRED BY OWNER.
13. CONTRACTOR SHALL PROVIDE SPILL CONTAINMENT CONTAINER UNDER DIESEL BYPASS PUMP.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-2
					SR 907	MIAMI-DADE	429193-1-56-01		

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GENERAL CIVIL SYMBOLS		CONTROL SYMBOLS		GENERAL SYMBOLOGY		ACRONYMS	
	NEW	 TBM 1 ELEV: XX	TEMPORARY BENCH MARK		NEW CONSTRUCTION	ABND	ABANDONED UTILITY
	EXISTING	 N XXXXXXX E XXXXXXX	SITE COORDINATES		EXISTING (SCREENED)	CATV	CABLE TV
	FUTURE	 EL XXXX.XX	MONUMENT		FUTURE (PHANTOM)	CAV	COMBINATION AIR VALVE
	EXISTING TO BE REMOVED OR DEMOLISHED		HORIZONTAL CONTROL POINT		EXISTING TO BE REMOVED OR DEMOLISHED	COMM	COMMUNICATIONS LINE
	CENTERLINE		VERTICAL CONTROL POINT		FENCE (CHAINLINK)	DFE	DESIGN FLOOD ELEVATION
	EARTH (IN SECTION)		HORZ AND VERT CONTROL POINT		STRUCTURE	E	POWER
	COMPACTED EARTH (IN SECTION)		DELTA		STRUCTURE (BELOW GRADE)	FIRE	FIRE SUPPLY WATER LINE
	FINISHED ELEVATION	PIPING AND UTILITIES		MATERIAL SYMBOLOGY			
	EXISTING ELEVATION						
	SHRUB	UTILITIES (SINGLE LINE) SEE PIPE SCHEDULE FOR ADDITIONAL PIPING INFO			CONCRETE (PLAN AND SECTION)	HPG	HIGH PRESSURE GAS LINE
	PROJECT LIMITS		UTILITIES (SIZE WHERE NOTED)		GROUT OR SAND (PLAN AND SECTION)	IRRG	IRRIGATION LINE
	APPROXIMATE GEOTECHNICAL BORING LOCATION		UNDERGROUND		STEEL/METAL/FRP (SMALL SCALE SECTION)	LPG	LIQUID PETROLEUM GAS LINE
	UTILITY SOFT-DIG	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CHECKER PLATE OR SOLID FRP GRATING (PLAN)	MB-PW	CITY OF MIAMI BEACH PUBLIC WORKS MANUAL
	STAKED SILT FENCE				FINISHED GRADE		GRAVEL/ DRAINROCK/ AGGREGATE BASE
	SEWER PLUG	REVISIONS			SOD	REW	RECLAIMED WATER
					CONCRETE		BUILDING HATCH

DATE		DESCRIPTION		DATE		DESCRIPTION		STANTEC CONSULTING SERVICES INC. MARLON J. MEDINA, P.E. P.E. License No. 77052 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SEWER PS 25 SYMBOLS, LEGENDS, AND PIPE SCHEDULE- I		SHEET NO.
										PS-3				

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LEGEND

SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
⊙	FOUND IRON PIPE WITH CAP
BE	BURIED ELECTRICAL
CBS	CONCRETE BLOCK STUCCO
F.D.H.	FOUND DRILL HOLE
F.F.E.	FINISH FLOOR ELEVATION
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
F.N.D.	FOUND NAIL & DISK
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
N.T.S.	NOT TO SCALE
PB	PLAT BOOK
PG	PAGE
P/L	PROPERTY LINE
P.O.B.	POINT OF BEGINNING
R/W	RIGHT-OF-WAY
S.I.P.	SET IRON PIPE
S.I.R.	SET IRON REBAR
SWK	SIDEWALK
T.B.M.	TEMPORARY BENCH MARK
T.O.P.	TOP OF PIPE
7	NUMBER OF PARKING SPACES
⊗	CATCH BASIN
E	ELECTRICAL PANEL
FH	FIRE HYDRANT
▬	DRAINAGE CURB INLET
⊗	BACKFLOW PREVENTOR
⊗	IRRIGATION VALVE
⊗	PEDESTRIAN SIGNAL
E	ELECTRIC UTILITY BOX
⊗	LIGHT POLE
⊗	GUY ANCHOR
W	WATER METER
W	WATER VALVE
GM	GREASE-TRAP MANHOLE
CO	SANITARY SEWER CLEAN-OUT
MHS	SANITARY SEWER MANHOLE
S	SANITARY SEWER VALVE
MH	MANHOLE_UNKNOWN
MHD	DRAINAGE MANHOLE
—	SIGNAL MAST ARM
W	WELL
⊗	POST
⊗	SIGN
⊗	MAILBOX
◇	CONCRETE UTILITY POLE
—	GUARDRAIL
△	FPL TRANSFORMER
⊗	WOOD UTILITY POLE
T1	TREE NUMBER
CBT	UTILITY STRUCTURE NUMBER

SYMBOL	DESCRIPTION
—	IRON ROLLING GATE
∩	IRON SWING GATE
—X—X—	CHAIN-LINK FENCE
∩—X—X—	CHAIN-LINK ROLLING GATE
∩	CHAIN-LINK SWING GATE
—○—○—	FENCE (OTHER)
⊗	TREE
⊗	PALM TREE
---	RIGHT-WAY-LINE
—r—r—	X-UTL-ELECTRIC
—m—m—	X-UTL-FORCE MAIN
---(D)---(D)---	X-UTL-WATER
---	X-UTL-DRAIN
---(S)---(S)---	X-UTL-SANT
▭	EX.FPL DUCT BANK
x 0.38	EXISTING ELEVATION
⊗	GRAVEL (SEE CIVIL DETAIL 1)
⊗	BRICK
⊗	BUILDING HATCH
⊗	CONCRETE
⊗	TILE
⊗	ASPHALT PAVEMENT
⊗	HANDICAP TACTILE STRIP
—	CBS WALL
⊗	BOLLARD

STANDARD DETAILS

MIAMI BEACH PUBLIC WORKS		MIAMI BEACH PUBLIC WORKS	
10-1	TYPICAL PAVEMENT RESTORATION	17-15	PROP. 32" SQUARE STORMWATER INLET
10-3	TYPICAL GREEN AREA RESTORATION	17-16	3' SQUARE STORMWATER INLET PLAN VIEW
10-7	CONCRETE CURB	17-30	TRENCH DRAIN SYSTEM
10-12	TYPICAL PLACEMENT OF PUBLIC SIDEWALK CURB RAMPS AT CURBED RETURNS WITH SIDEWALK/ UTILITY STRIP TRANSITION	FDOT STANDARD PLANS - INDEX (FY 2022-23)	
10-18	TYPICAL 4" THICK CONCRETE SIDEWALK	522-003	CONCRETE FLARED DRIVEWAYS
10-24	CONCRETE DRIVEWAY WITH CONCRETE SIDEWALKS	520-001	CURB AND GUTTER
14-16	TYPICAL WATER SERVICE CONNECTION WITH SADDLE	522-001	CONCRETE SIDEWALK
14-23	1" WATER METER	1. SEE MIAMI BEACH PUBLIC WORKS MANUAL (MB-PWM) FOR STANDARD DETAILS.	
14-46	TYPICAL BOLLARD IN GREEN SPACE		
15-1	VERTICAL SEPARATION AND JOINT SPACING AT CROSSING		
15-2	HORIZONTAL SEPARATION FOR PARALLEL MAINS		
15-5	TYPICAL TRENCH SECTION FOR PVC PIPE		
15-17	SANITARY SEWER MANHOLE US FOUNDRY 310 RING & 'OE' TYPE COVER		
15-18	SANITARY SEWER MANHOLE FOR NEW GRAVITY SEWER MAIN		
15-19	SANITARY SEWER MANHOLE DETAIL A		
15-20	CAST-IN-PLACE MANHOLE OVER EXISTING GRAVITY SEWER MAIN PLAN VIEW		
15-21	CAST-IN-PLACE MANHOLE OVER EXISTING GRAVITY SEWER MAIN SECTION VIEW		
15-24	FLOW PATTERNS FOR INVERT CHANNELS		
16-8	TRACER WIRE DETAIL		
16-9	VALVE COLLAR DETAIL AND VALVE BOX INSTALLATION		
16-10	NO. 52 VALVE BOX		
16-11	NO.53 VALVE BOX		
16-15	RESTRAINING SCHEDULE		
16-16	FORCE MAIN ENTERING MANHOLE		
16-26	HOSE BIB DETAIL		

REVISIONS				STANTEC CONSULTING SERVICES INC. MARLON J. MEDINA, P.E. P.E. License No. 77052 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. PS-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

SEWER PS 25
SYMBOLS, LEGENDS, AND PIPE
SCHEDULE- II

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LEGEND:



SAND

▽ GROUND WATER LEVEL AT BORING COMPLETION

B.T. BORING TERMINATED



LIMESTONE

N: SPT VALUE FOR A 12-INCH PENETRATION (AUTOMATIC HAMMER)



PEAT

COHESIONLESS SOILS

RELATIVE DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	<3
LOOSE	4-8
MEDIUM DENSE	9-24
DENSE	25-40
VERY DENSE	>40

SILTS AND CLAYS:

CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	<1
SOFT	2-3
FIRM	4-6
STIFF	7-12
VERY STIFF	13-24
HARD	>24

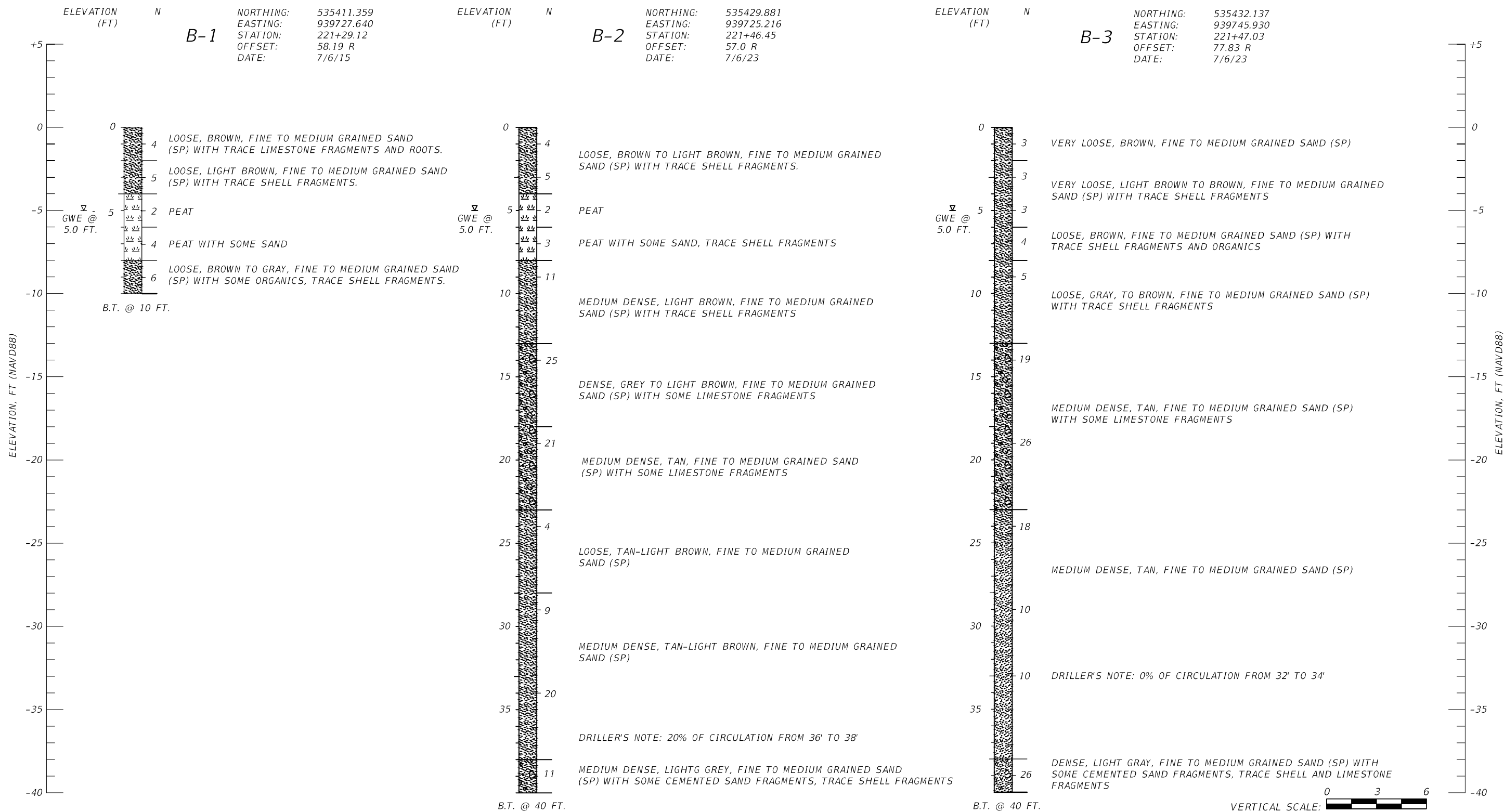
LIMESTONE:

CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	<19
SOFT	20-49
MEDIUM HARD	50-100
MODERATELY HARD	50 FOR 3 TO 5"
HARD	50 FOR 0 TO 2"

NOTES:

1. THIS SHEET IS FOR REFERENCE ONLY, AND SHALL BE SUPERSEDED BY UES GEOTECHNICAL REPORT DATED 7/14/2023.

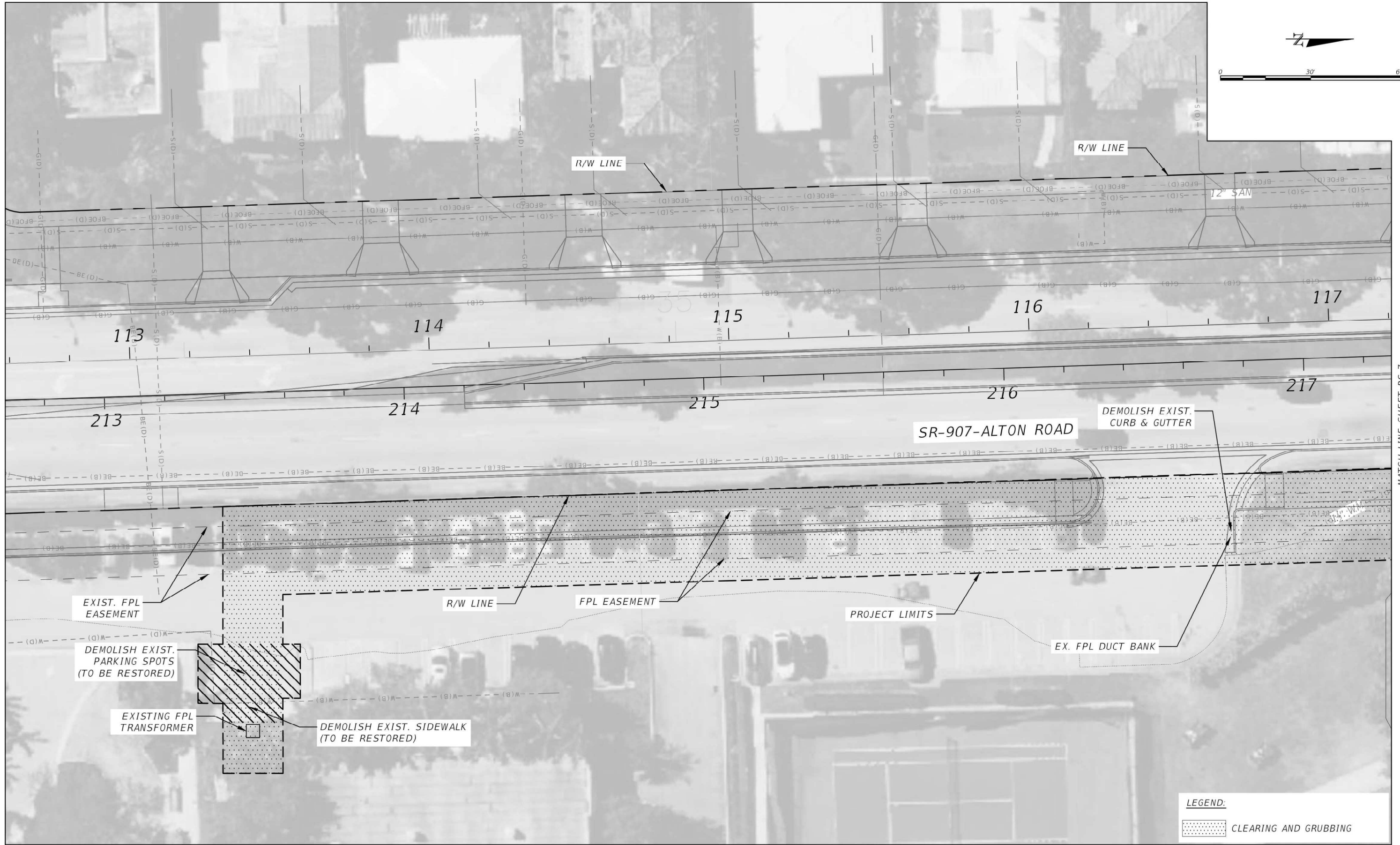
DATUM= NAVD88
NGVD29 = NAVD88 + 1.55'



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

SEWER PS 25
GEOTECHNICAL BORINGS



MATCH LINE SHEET PS-7
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

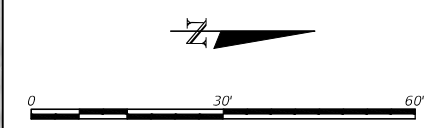
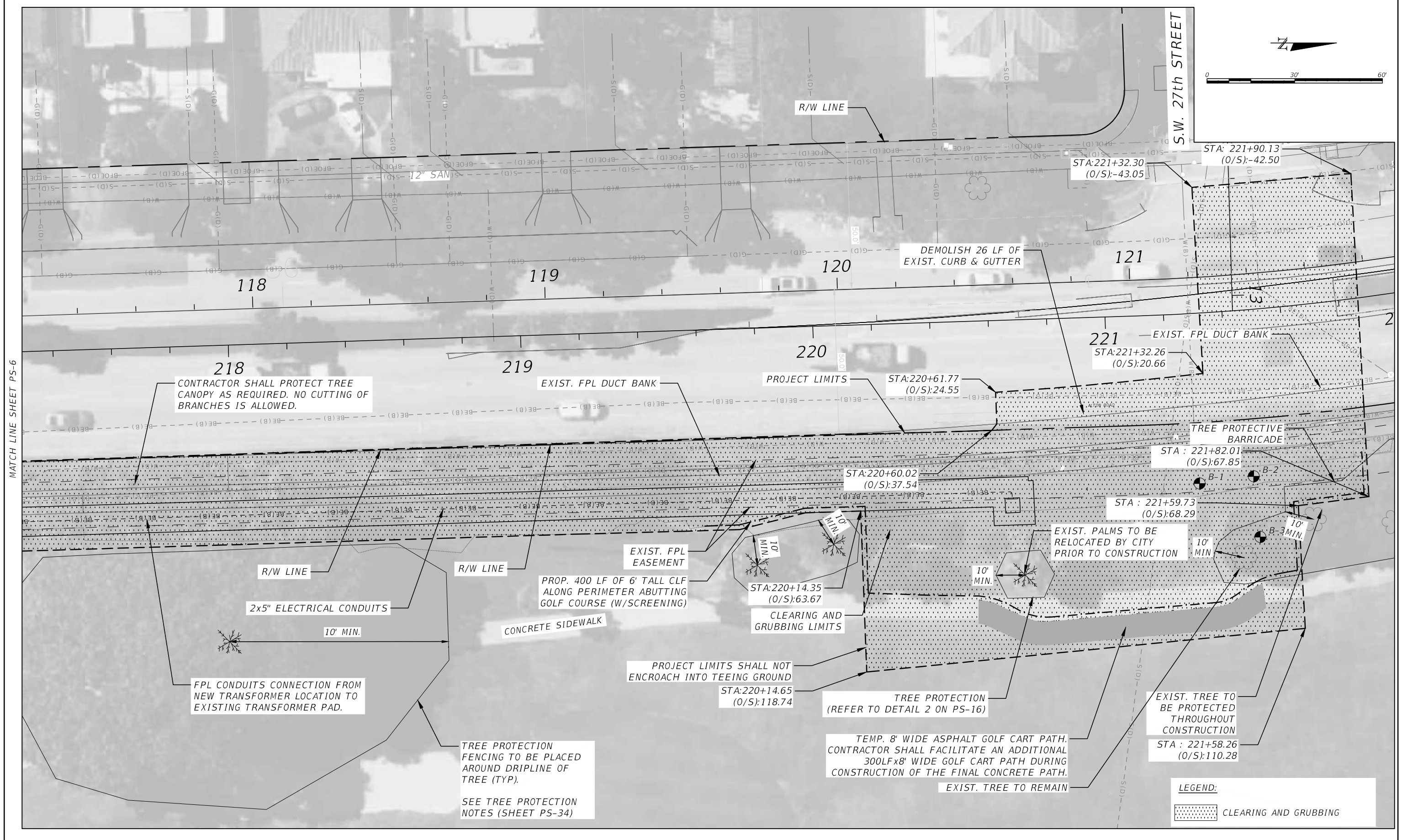
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
CIVIL DEMOLITION PLAN - I

SHEET NO.
PS-6



MATCH LINE SHEET PS-6

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
CIVIL DEMOLITION PLAN - II

SHEET NO.
PS-7



MATCH LINE SHEET PS-9
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LEGEND:

	STAKED SILT FENCE
	FILTER SOCK DROP INLET FILTER (TYP.)

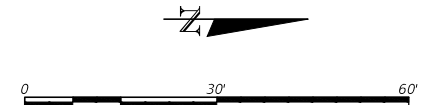
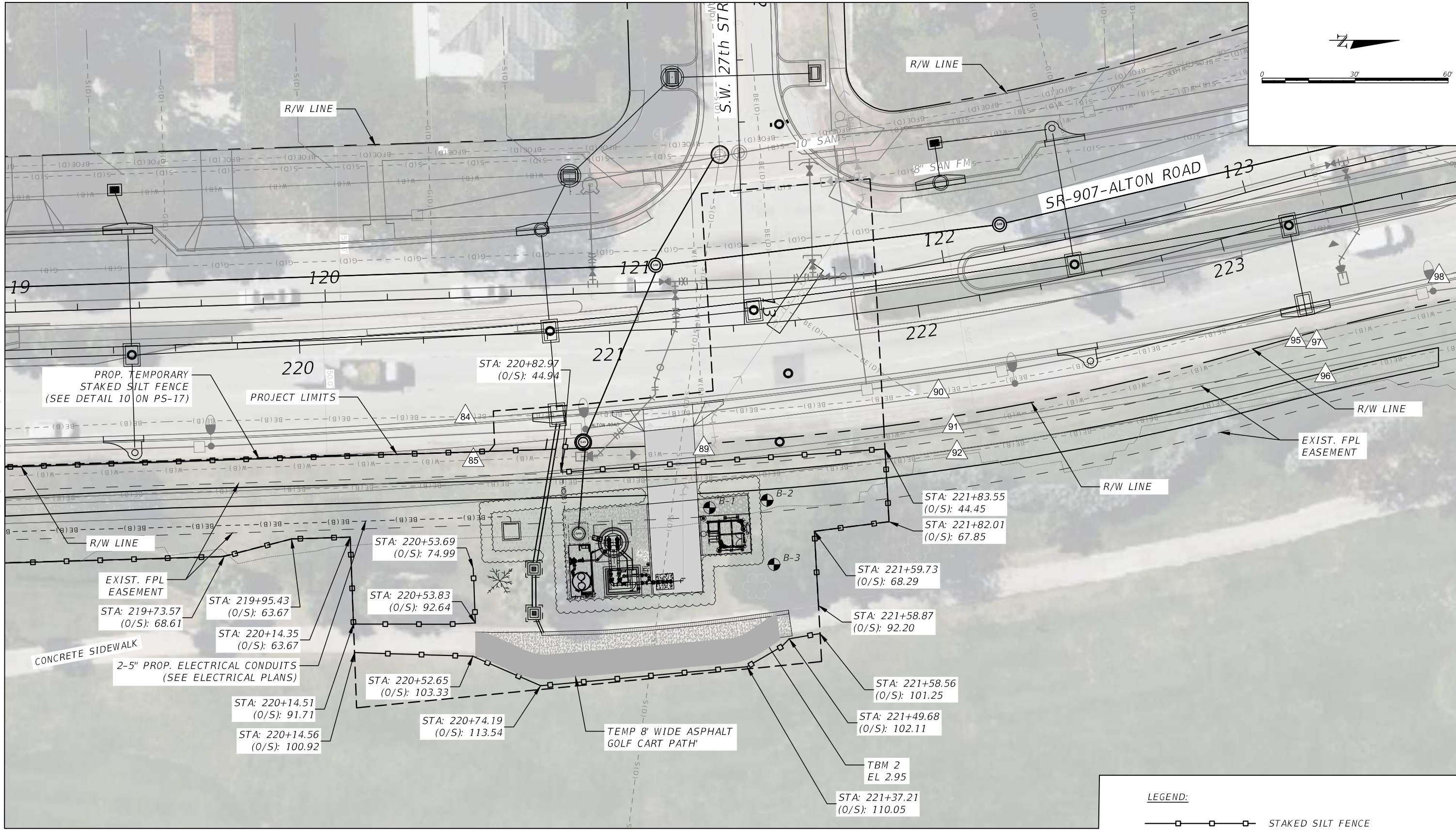
REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
EROSION AND SEDIMENT
CONTROL PLAN - I

SHEET NO.
PS-8



MATCH LINE SHEET PS-8

DATUM= NAVD88
 NGVD29 = NAVD88 + 1.55'

LEGEND:

—□—□—□— STAKED SILT FENCE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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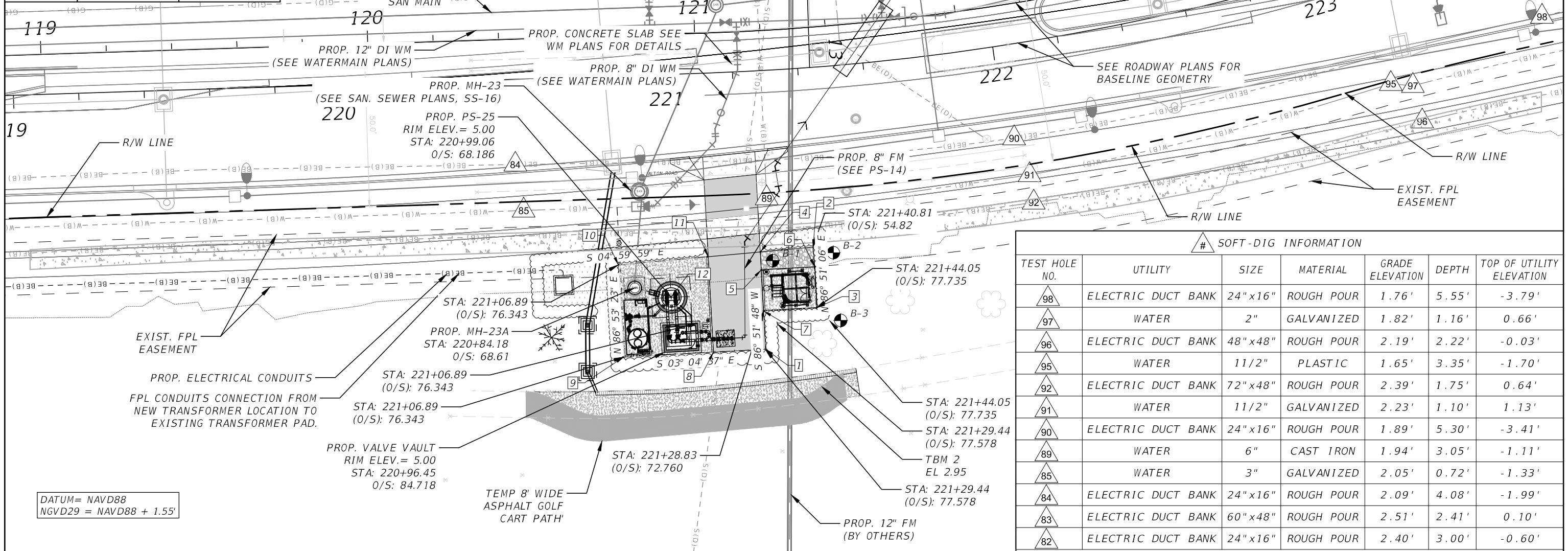
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

**SEWER PS 25
 EROSION AND SEDIMENT
 CONTROL PLAN - II**

SHEET NO.
 PS-9

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Point Table		
Point #	Northing	Easting
1	535409.207	939754.707
2	535423.673	939723.487
3	535424.925	939741.987
4	535407.560	939724.951
5	535407.863	939730.412
6	535424.234	939729.506
7	535408.560	939743.006
8	535393.233	939755.594
9	535365.763	939757.111
10	535364.147	939728.912
11	535391.618	939726.410
12	535380.287	939738.864



# SOFT-DIG INFORMATION						
TEST HOLE NO.	UTILITY	SIZE	MATERIAL	GRADE ELEVATION	DEPTH	TOP OF UTILITY ELEVATION
98	ELECTRIC DUCT BANK	24" x 16"	ROUGH POUR	1.76'	5.55'	-3.79'
97	WATER	2"	GALVANIZED	1.82'	1.16'	0.66'
96	ELECTRIC DUCT BANK	48" x 48"	ROUGH POUR	2.19'	2.22'	-0.03'
95	WATER	1 1/2"	PLASTIC	1.65'	3.35'	-1.70'
92	ELECTRIC DUCT BANK	72" x 48"	ROUGH POUR	2.39'	1.75'	0.64'
91	WATER	1 1/2"	GALVANIZED	2.23'	1.10'	1.13'
90	ELECTRIC DUCT BANK	24" x 16"	ROUGH POUR	1.89'	5.30'	-3.41'
89	WATER	6"	CAST IRON	1.94'	3.05'	-1.11'
85	WATER	3"	GALVANIZED	2.05'	0.72'	-1.33'
84	ELECTRIC DUCT BANK	24" x 16"	ROUGH POUR	2.09'	4.08'	-1.99'
83	ELECTRIC DUCT BANK	60" x 48"	ROUGH POUR	2.51'	2.41'	0.10'
82	ELECTRIC DUCT BANK	24" x 16"	ROUGH POUR	2.40'	3.00'	-0.60'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

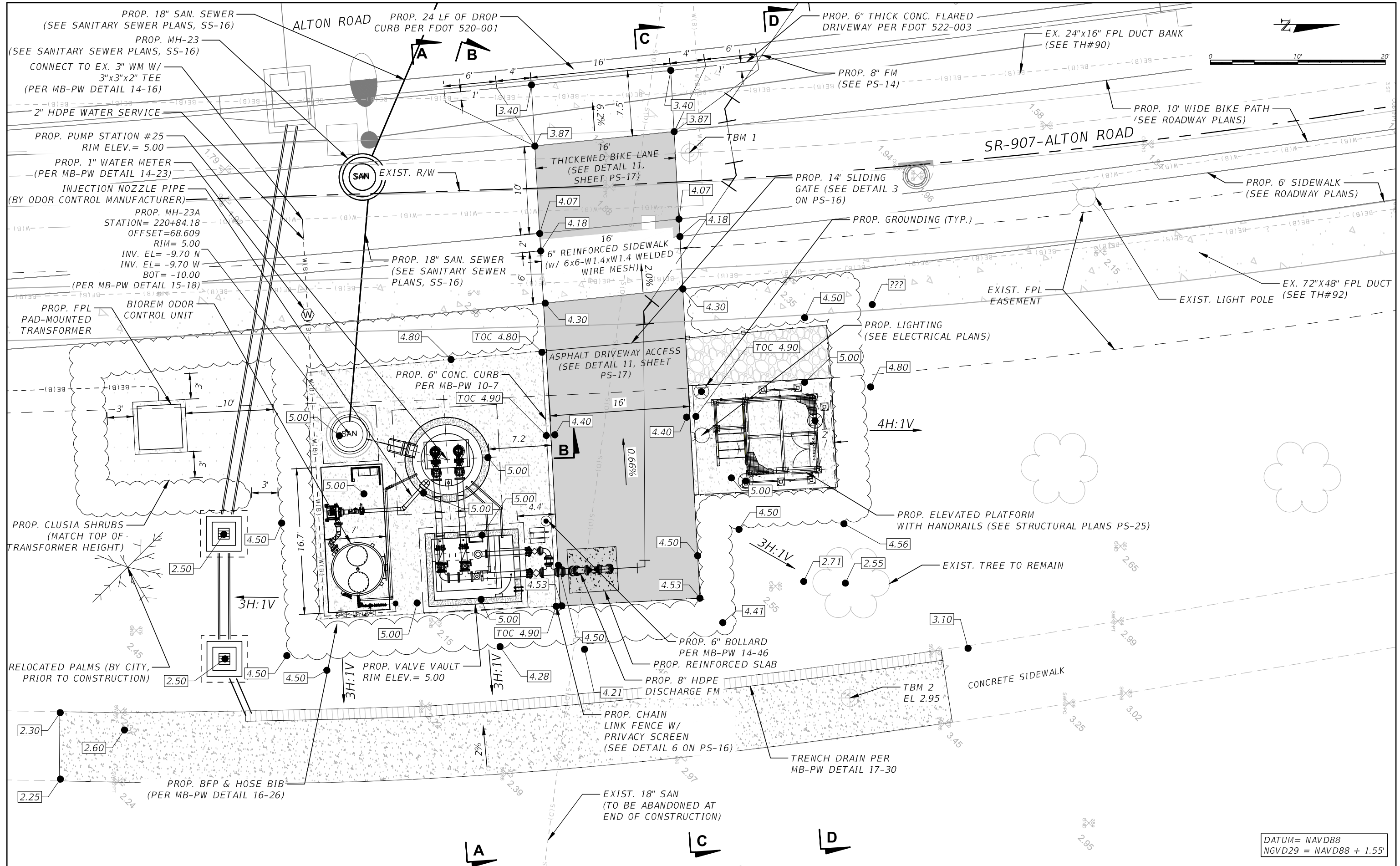
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 P.E. License No. 77052
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
OVERALL CIVIL SITE PLAN

SHEET NO.
PS-10

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DATUM= NAVD88
 NGVD29 = NAVD88 + 1.55'

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

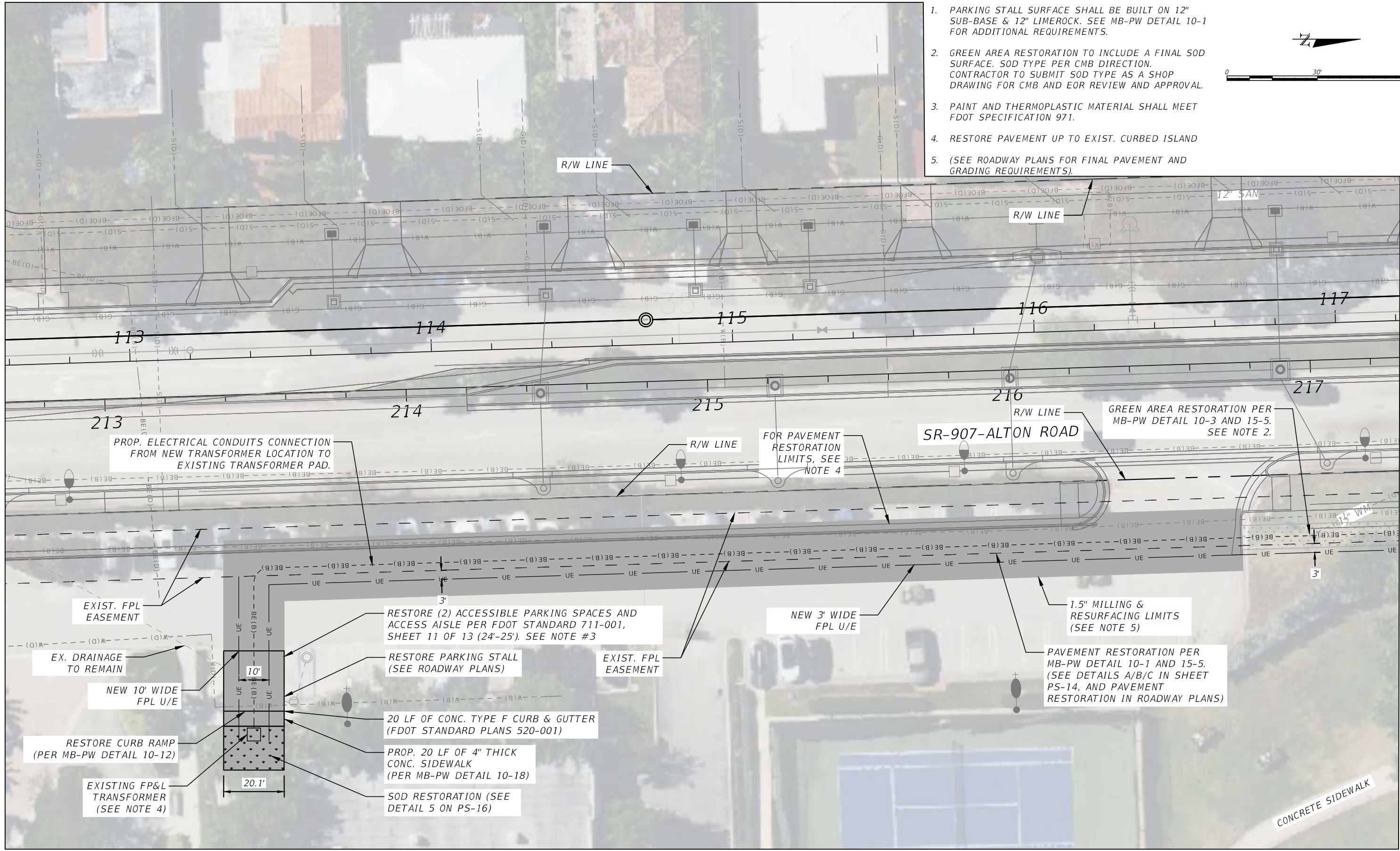
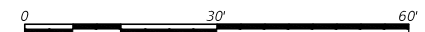
SEWER PS 25
ENLARGED CIVIL SITE PLAN

SHEET NO.
 PS-11

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES:

1. PARKING STALL SURFACE SHALL BE BUILT ON 12" SUB-BASE & 12" LIMEROCK. SEE MB-PW DETAIL 10-1 FOR ADDITIONAL REQUIREMENTS.
2. GREEN AREA RESTORATION TO INCLUDE A FINAL SOD SURFACE. SOD TYPE PER CMB DIRECTION. CONTRACTOR TO SUBMIT SOD TYPE AS A SHOP DRAWING FOR CMB AND EOR REVIEW AND APPROVAL.
3. PAINT AND THERMOPLASTIC MATERIAL SHALL MEET FDOT SPECIFICATION 971.
4. RESTORE PAVEMENT UP TO EXIST. CURBED ISLAND
5. (SEE ROADWAY PLANS FOR FINAL PAVEMENT AND GRADING REQUIREMENTS).



MATCH LINE SHEET PS-13

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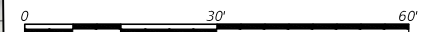
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

**SEWER PS 25
UTILITY PLAN - I**

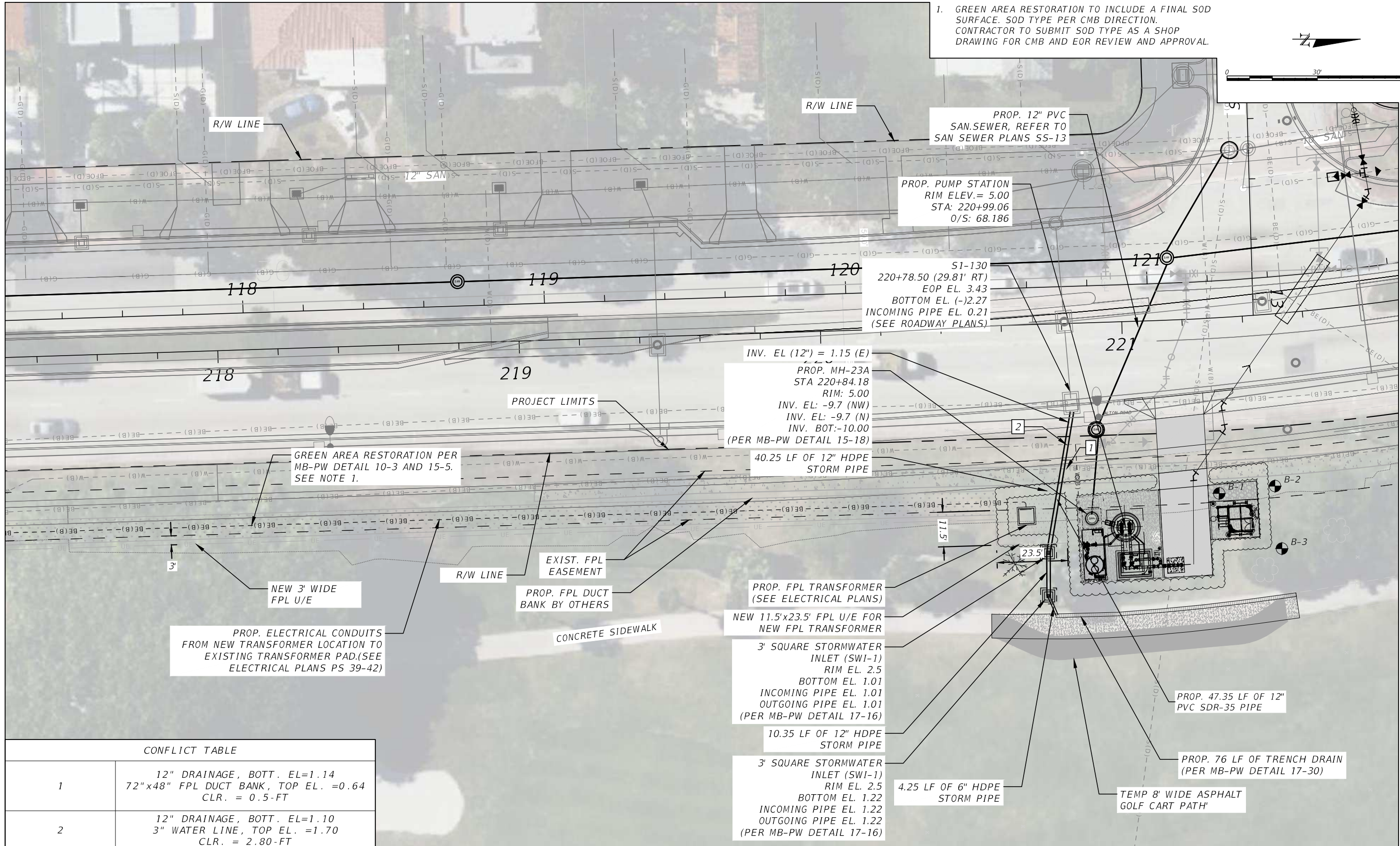
SHEET NO.
PS-12

NOTES:

1. GREEN AREA RESTORATION TO INCLUDE A FINAL SOD SURFACE. SOD TYPE PER CMB DIRECTION. CONTRACTOR TO SUBMIT SOD TYPE AS A SHOP DRAWING FOR CMB AND EOR REVIEW AND APPROVAL.



MATCH LINE SHEET PS-12



CONFLICT TABLE

NO.	DESCRIPTION
1	12" DRAINAGE, BOTT. EL=1.14 72"x48" FPL DUCT BANK, TOP EL. =0.64 CLR. = 0.5-FT
2	12" DRAINAGE, BOTT. EL=1.10 3" WATER LINE, TOP EL. =1.70 CLR. = 2.80-FT

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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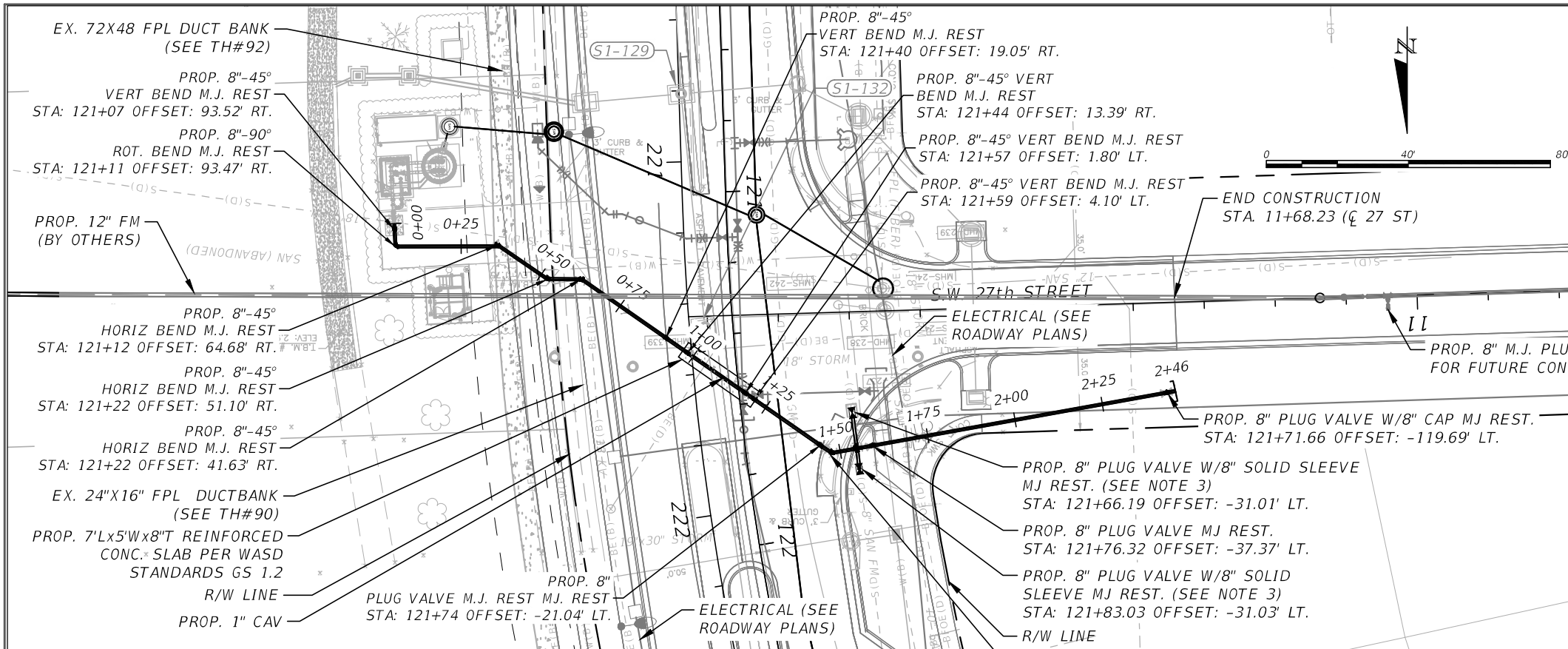
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
UTILITY PLAN - II

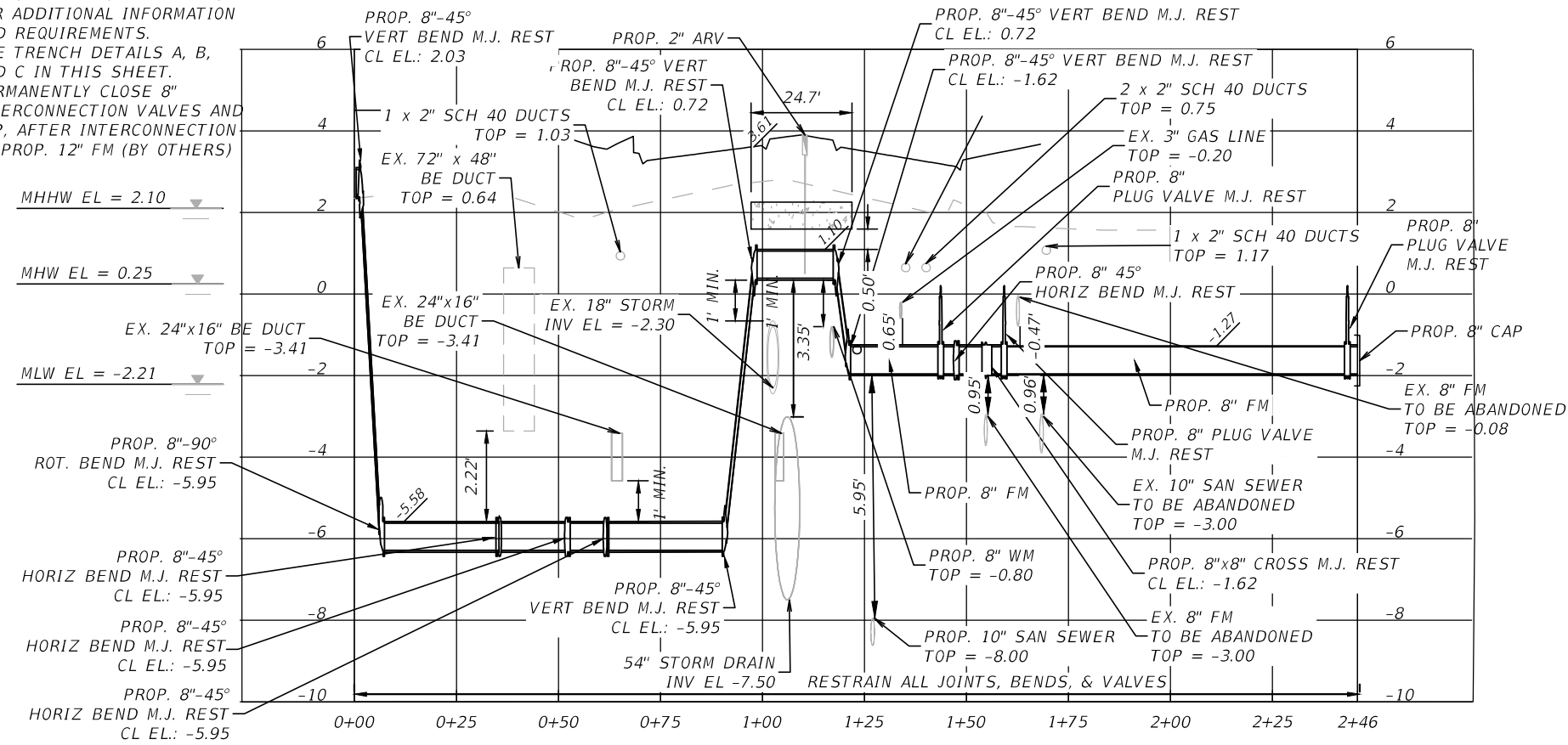
SHEET NO.
PS-13

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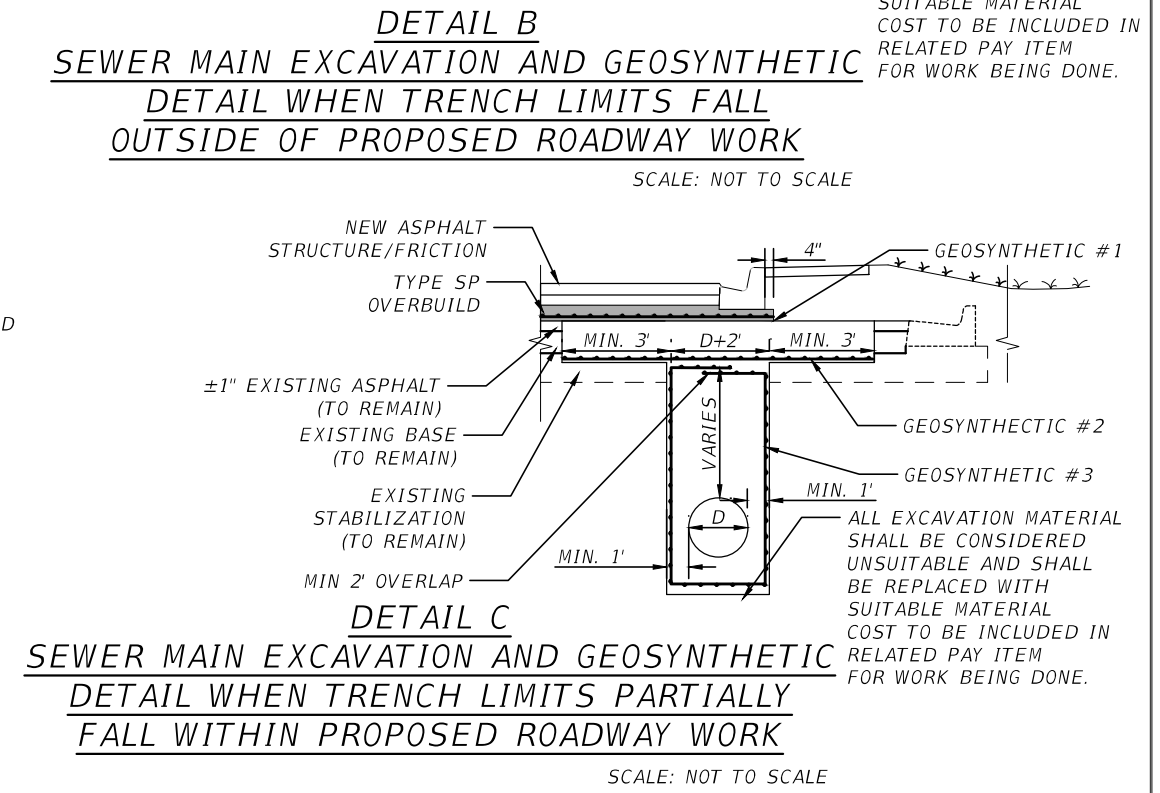
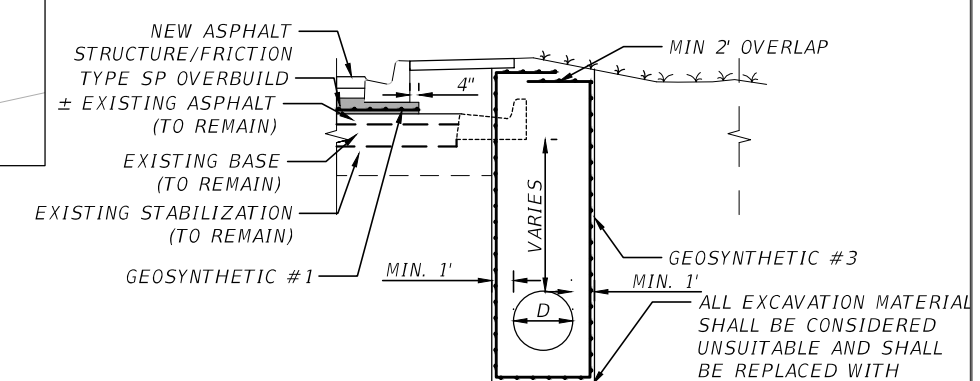
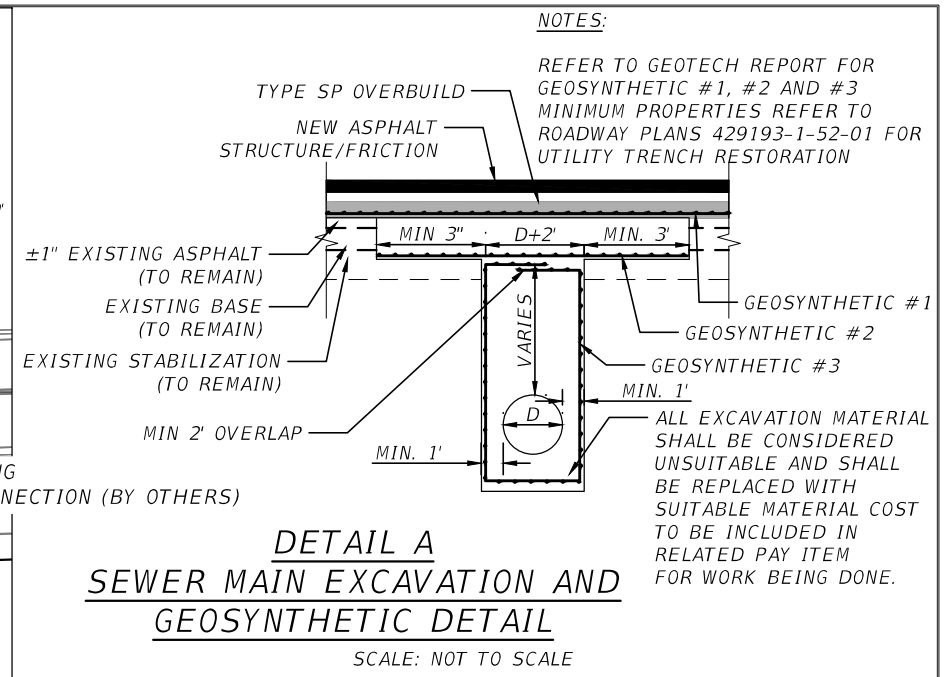
- NOTES
1. SEE SANITARY SEWER PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 2. SEE TRENCH DETAILS A, B, AND C IN THIS SHEET.
 3. PERMANENTLY CLOSE 8" INTERCONNECTION VALVES AND CAP, AFTER INTERCONNECTION TO PROP. 12" FM (BY OTHERS)

PLAN VIEW OF PROPOSED 8" FORCE MAIN



LONGITUDINAL PROFILE VIEW OF 8" FORCE MAIN

SCALE: 1"=40' HORIZ.
1"=4' VERT.



NOTES:

REFER TO GEOTECH REPORT FOR GEOSYNTHETIC #1, #2 AND #3 MINIMUM PROPERTIES REFER TO ROADWAY PLANS 429193-1-52-01 FOR UTILITY TRENCH RESTORATION

ALL EXCAVATION MATERIAL SHALL BE CONSIDERED UNSUITABLE AND SHALL BE REPLACED WITH SUITABLE MATERIAL COST TO BE INCLUDED IN RELATED PAY ITEM FOR WORK BEING DONE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

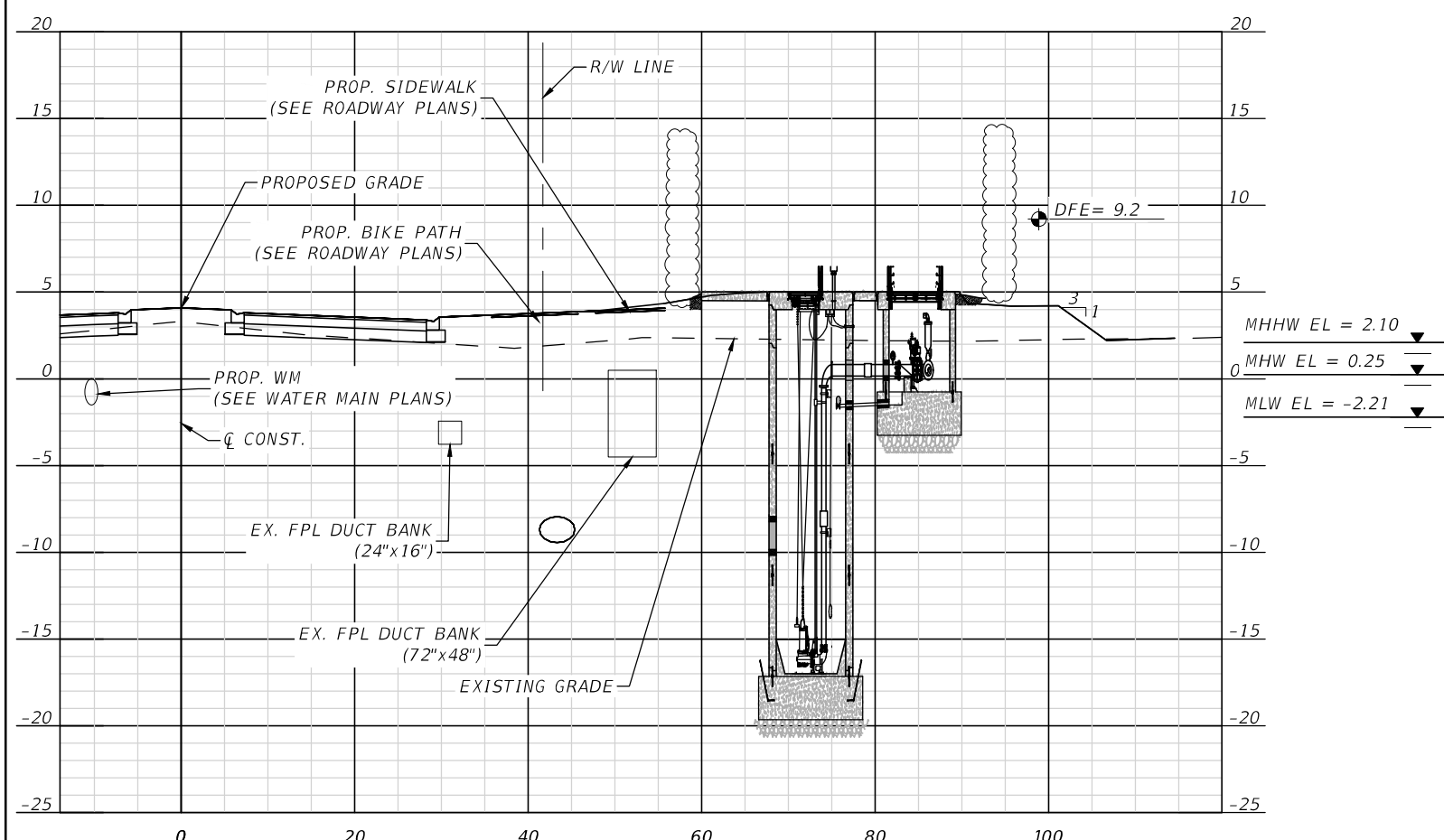
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25

8" FM PLAN & PROFILE

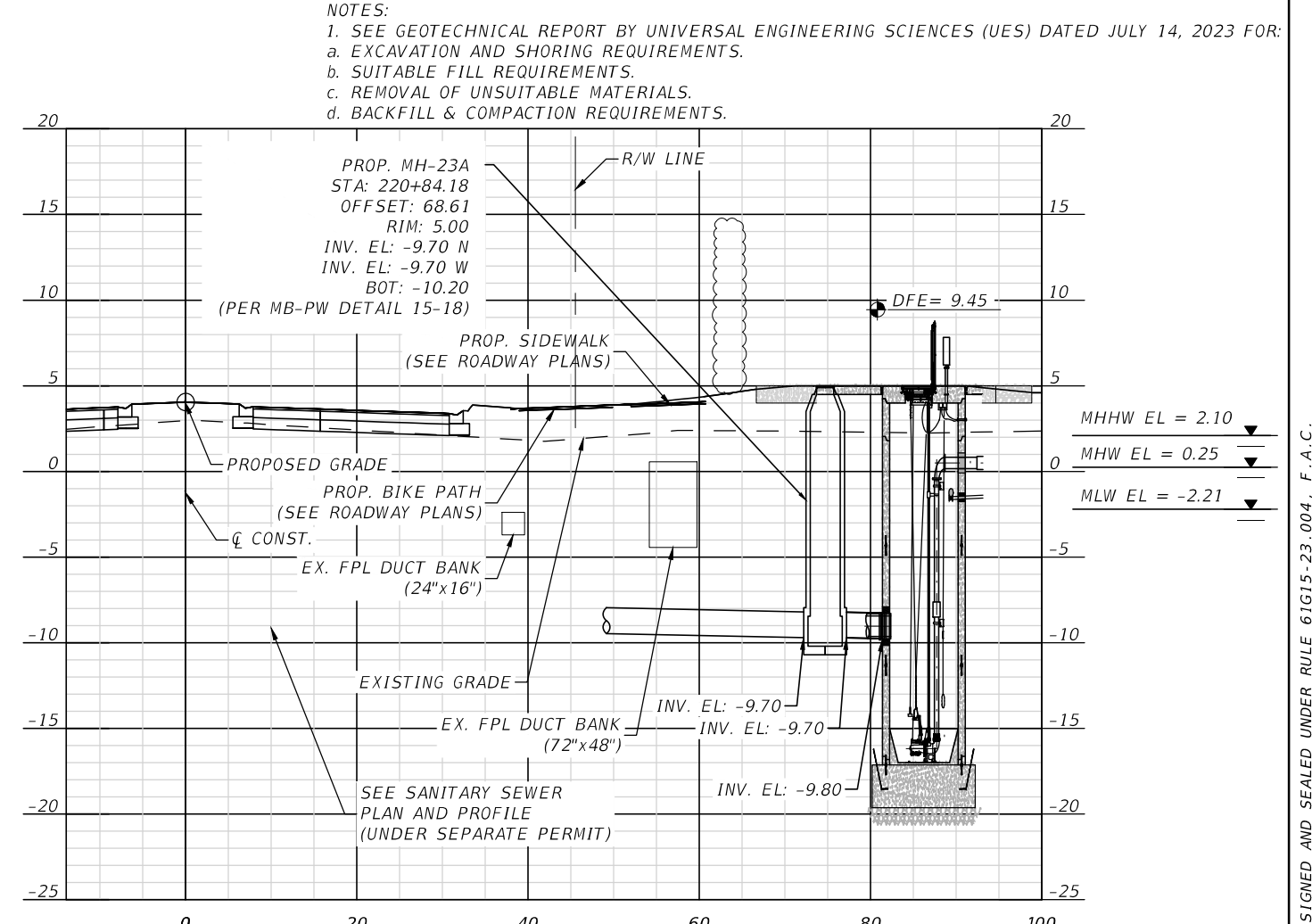
SHEET NO.
PS-14

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SECTION A-A

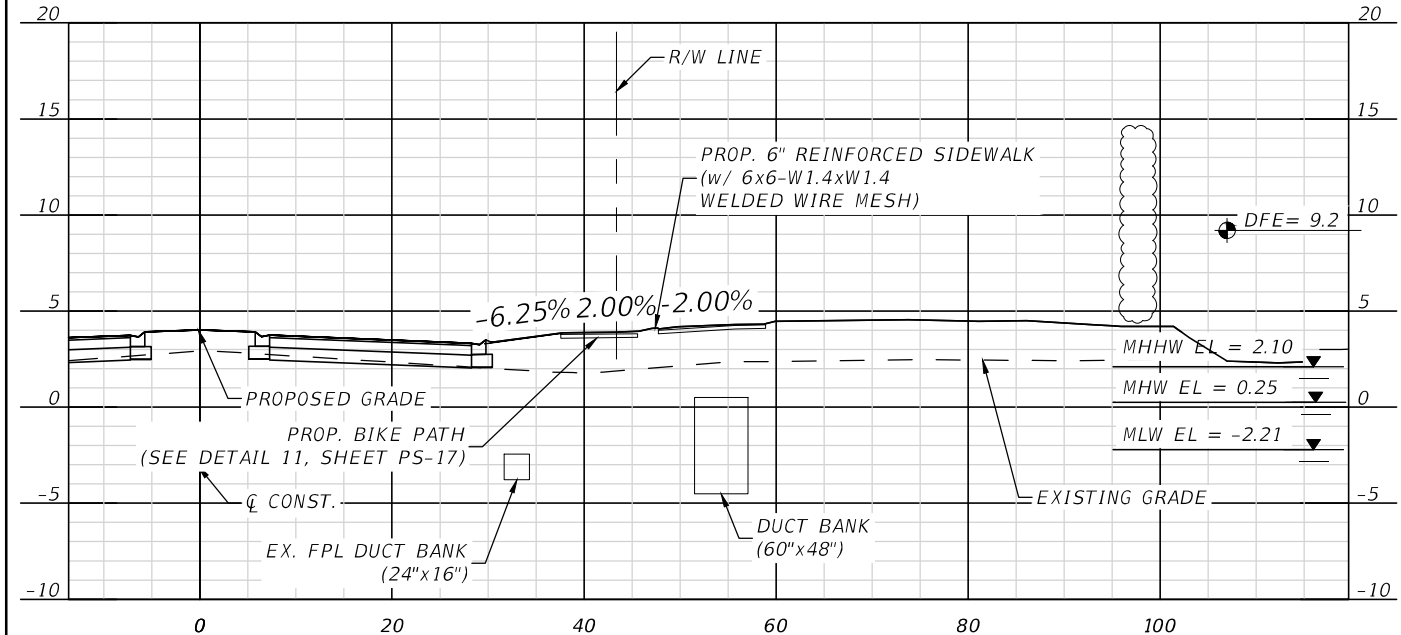
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VERT SCALE: 1" = 10'-0"



SECTION B-B

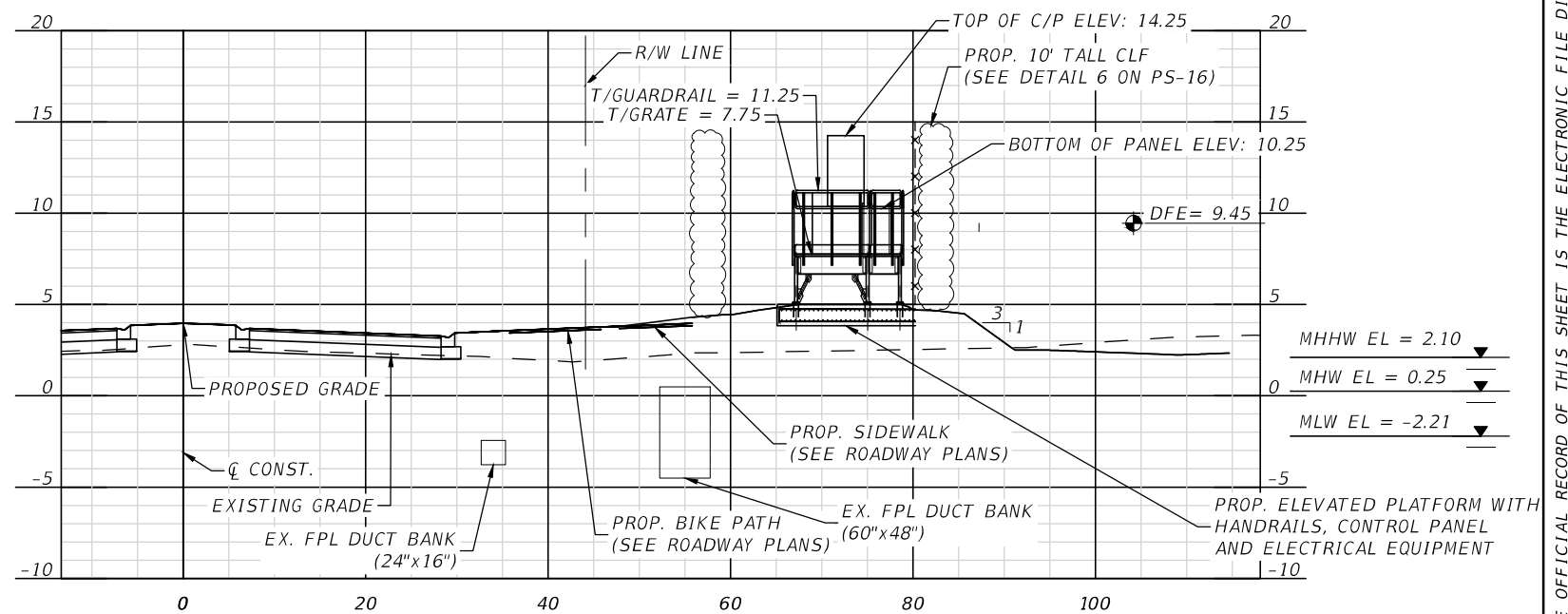
HORIZ SCALE: 1" = 20'-0"
VERT SCALE: 1" = 10'-0"

- NOTES:
1. SEE GEOTECHNICAL REPORT BY UNIVERSAL ENGINEERING SCIENCES (UES) DATED JULY 14, 2023 FOR:
a. EXCAVATION AND SHORING REQUIREMENTS.
b. SUITABLE FILL REQUIREMENTS.
c. REMOVAL OF UNSUITABLE MATERIALS.
d. BACKFILL & COMPACTION REQUIREMENTS.



SECTION C-C

HORIZ SCALE: 1" = 20'-0"
VERT SCALE: 1" = 10'-0"



SECTION D-D

HORIZ SCALE: 1" = 20'-0"
VERT SCALE: 1" = 10'-0"

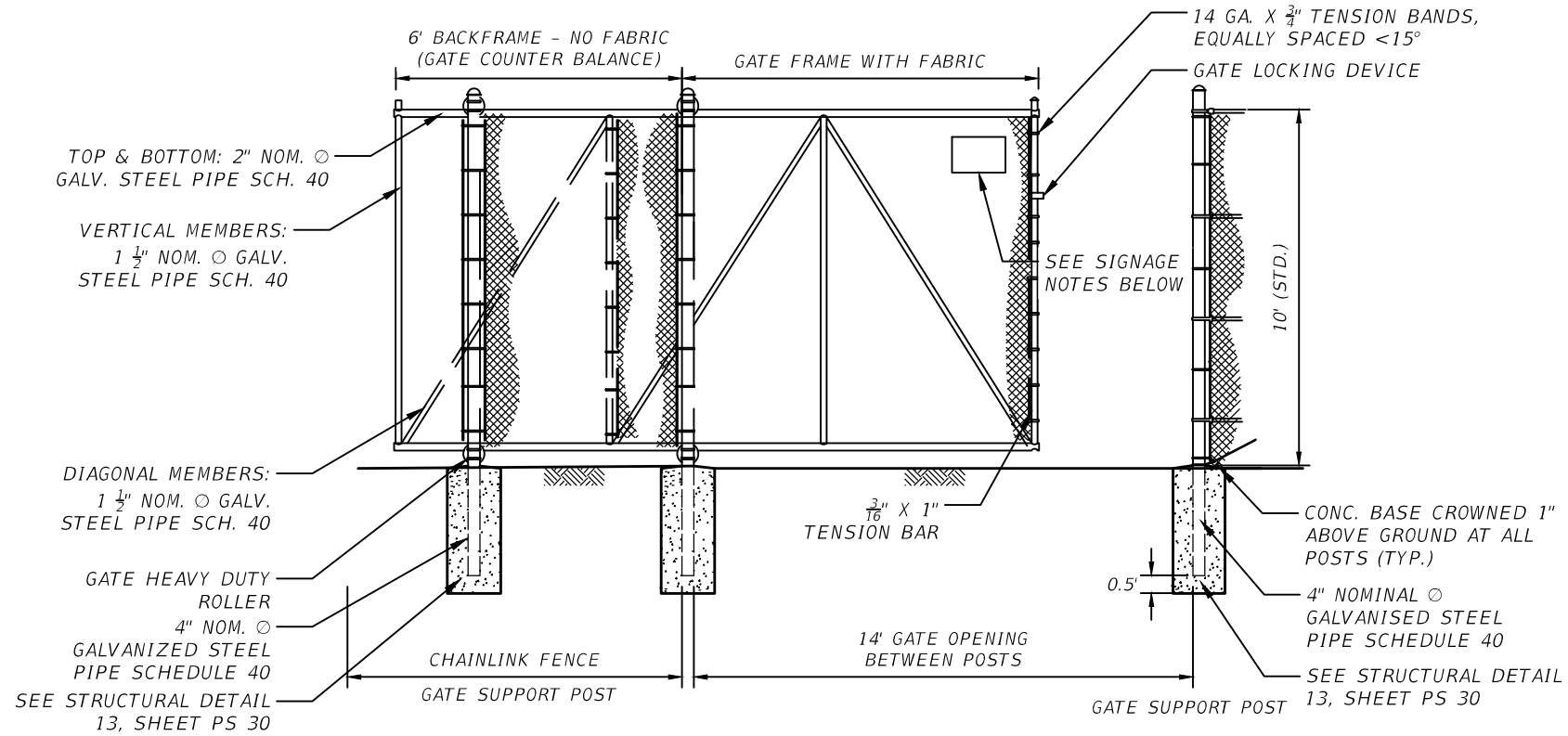
DATUM = NAVD88
NGVD29 = NAVD88 + 1.55'

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. PS-15
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 907	MIAMI-DADE	429193-1-56-01	

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SEWER PS 25
CIVIL CROSS SECTIONS

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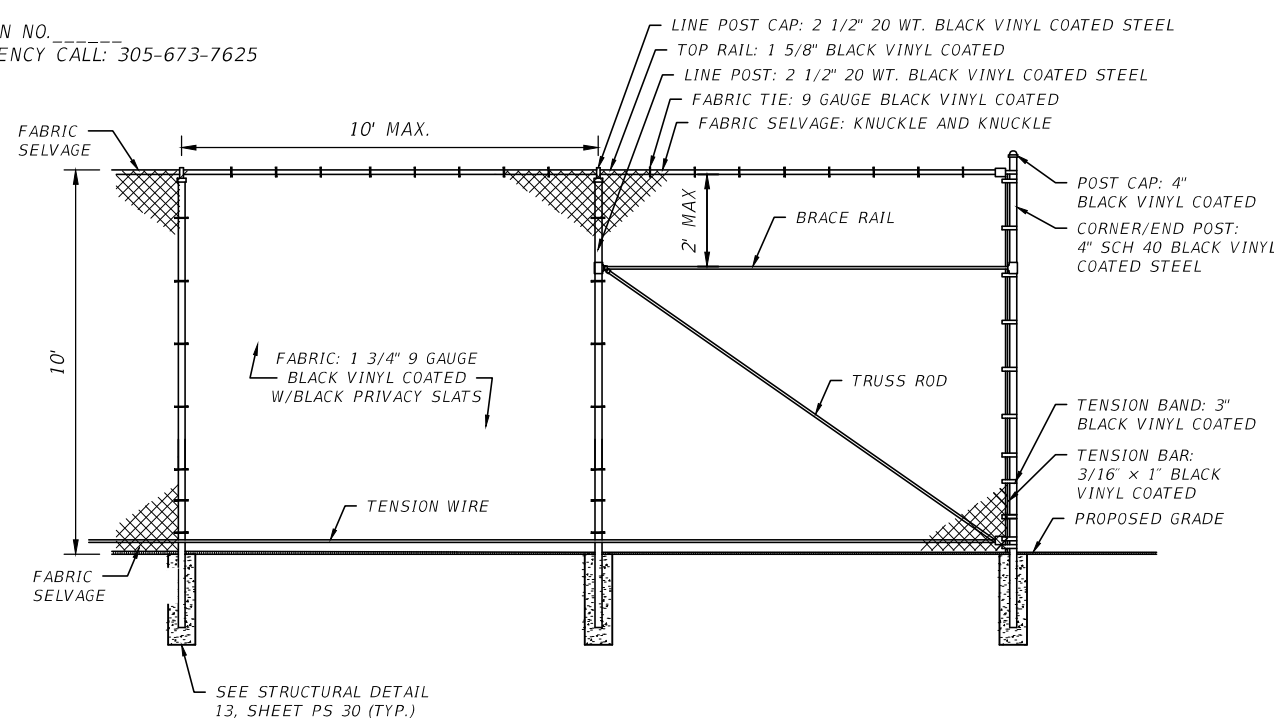


DETAIL 3
14' SLIDING GATE
SCALE: 1"=5'-0"

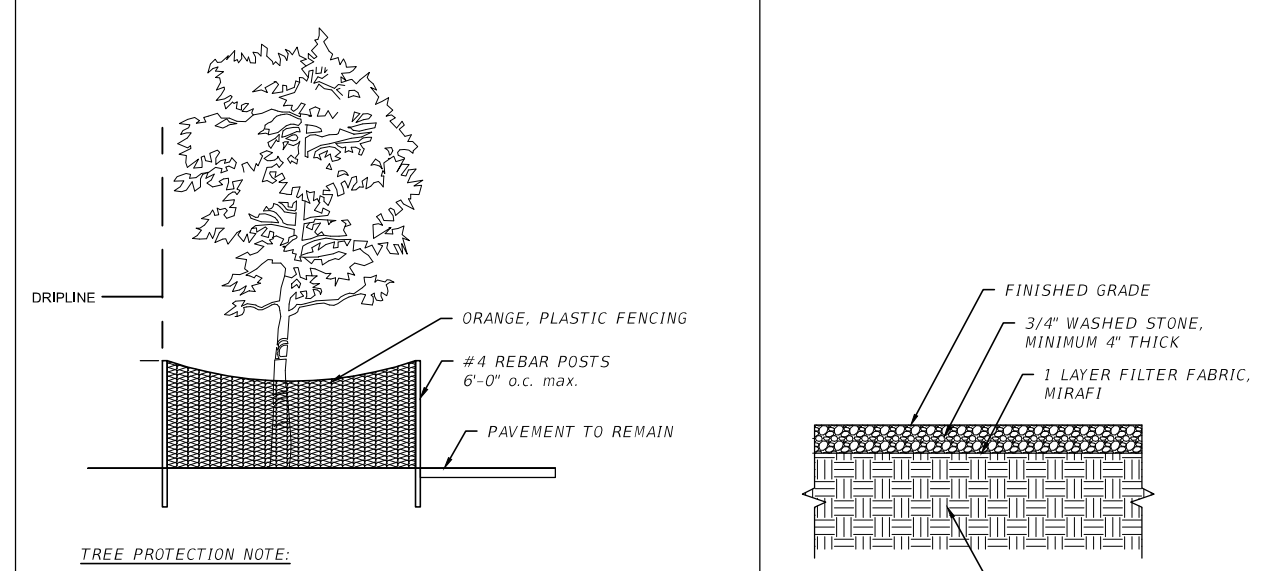
- NOTES:**
- CONTRACTOR SHALL PROVIDE SIGNED AND SEALED (BY A FLORIDA PE) STRUCTURAL CALCULATIONS FOR FENCE AND GATES, INCLUDING, BUT NOT LIMITED TO, POSTS, RAILS, WIRE TIES, TENSION WIRES, STRETCHER BAR BANDS, POST-BRACE ASSEMBLY, ASSOCIATED WEIGHTS, AND LOCAL WIND LOADS (AS REQUIRED).
 - SEE FDOT INDEX 550-002 FOR ADDITIONAL REQUIREMENTS.

SIGNAGE NOTE
PUMP STATION SHALL BE PROVIDED WITH A 12-INCH WIDE BY 18-INCH-HIGH IDENTIFICATION SIGN USING THE THREE (3) INCH HIGH REFLECTIVE LETTERS FUTURA FONT, AND SHOULD BE DESIGNED TO RESIST FADING WITH THE FOLLOWING INFORMATION:

CITY LOGO
PUMP STATION NO. _____
(RED) EMERGENCY CALL: 305-673-7625



DETAIL 6
10' HIGH CHAIN LINK FENCE
SCALE: NOT TO SCALE

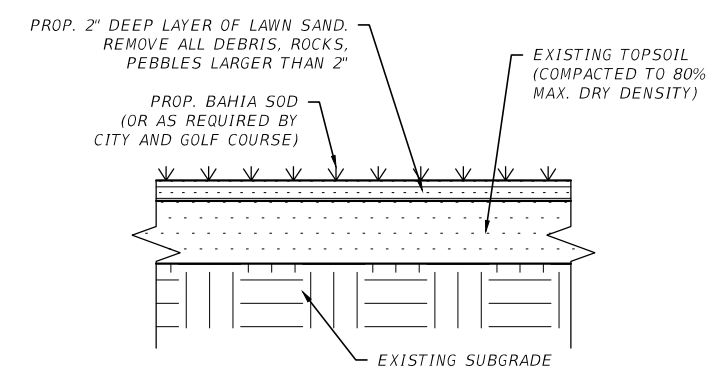


TREE PROTECTION NOTE:

- PLACE ORANGE, PLASTIC FENCING (BY TENSAR OR OTHER APPROVED EQUAL) AROUND INDIVIDUAL TREES AND TREE CLUMPS TO REMAIN ON SITE IN ANY AREAS WITHIN THE LIMITS OF CONSTRUCTION. BARRIER SHALL BE PLACED AT THE EDGE OF THE DRIPLINE OF THE TREE CANOPY OR AS FAR FROM THE TREE AS POSSIBLE WHERE THE CANOPY OVERHANGS PAVEMENT THAT IS TO REMAIN. BARRIER SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES.
- CONTRACTOR SHALL HAND DIG AND VERIFY PROXIMITY OF EXIST. WALL FOOTING AND NOTIFY EOR IN RF1.
- CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS.

DETAIL 2
TREE PROTECTION
SCALE: NOT TO SCALE

DETAIL 1
WASHED STONE GROUND
SCALE: NOT TO SCALE



NOTES:

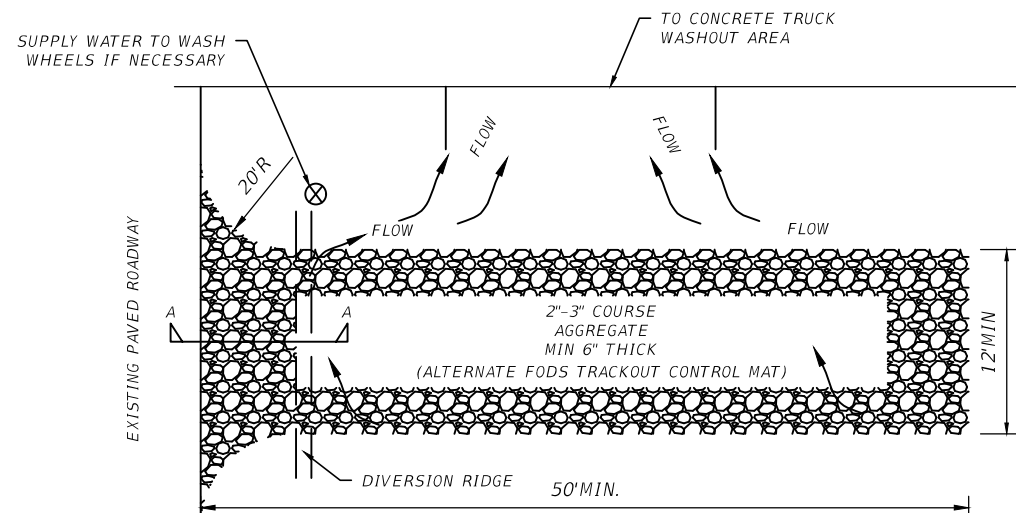
- SOIL TESTING SHALL BE PERFORMED IN ALL PLANTING AREAS PRIOR TO CONSTRUCTION WITH RESULTS SUBMITTED TO LANDSCAPE ARCHITECT. SAMPLES SHALL BE TAKEN FROM EACH DIFFERENT PLANTING AREA, FROM SOIL WHICH IS TO REMAIN. SOIL AMENDMENTS SHALL BE ADDED AS NECESSARY TO MEET THE FOLLOWING PARAMETERS:
PH RANGE: 6.5-7.5
ORGANIC MATTER: > 1.5%
MAGNESIUM: 100+ UNITS
PHOSPHORUS: 150+ UNITS
POTASSIUM: 120+ UNITS
SOLUBLE SALTS/CONDUCTIVITY NOT TO EXCEED 900 PPM/0.9 MMHOS/CM (IN SOIL)
AFTER AMENDMENTS HAVE BEEN ADDED, RESUBMIT RESULTS TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
- FREQUENCY: ONE TEST EVERY 2,000 SQ FT.
- IF EXISTING TOP SOIL FAILS, CONTRACTOR SHALL IMPLEMENT DETAIL C-16.

DETAIL 5
SOD
SCALE: NOT TO SCALE

REVISIONS		REVISIONS		DATE	DESCRIPTION	DATE	DESCRIPTION
DATE	DESCRIPTION	DATE	DESCRIPTION				

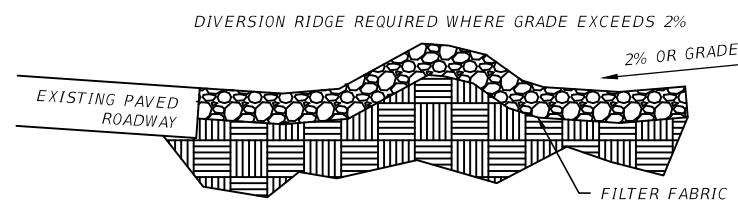
STANTEC CONSULTING SERVICES INC.				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
MARLON J. MEDINA, P.E. P.E. License No. 77052 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 907	MIAMI-DADE	429193-1-56-01	PS-16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO AREAS OUTSIDE OF CONSTRUCTION LIMITS. THIS MAY REQUIRE TOP DRESSING REPAIR AND/OR CLEANOUTS OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ON TO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAIN INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 4. AN ALTERNATE FODS TRACKOUT CONTROL MAT CAN BE SUBMITTED IN LIEU OF GRAVEL SURFACE.

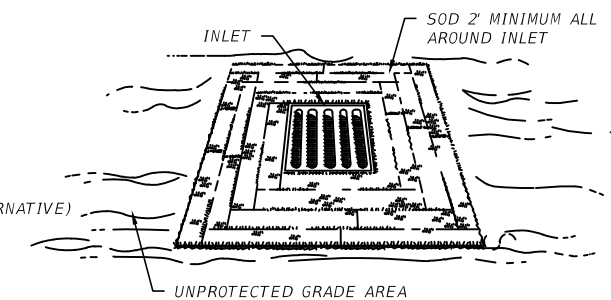
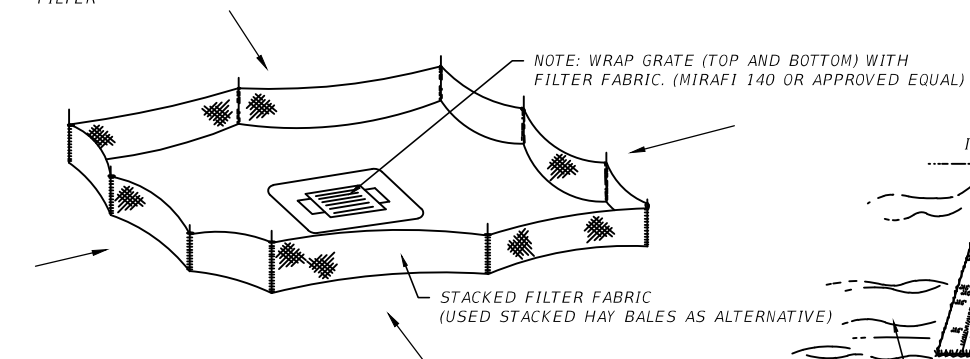
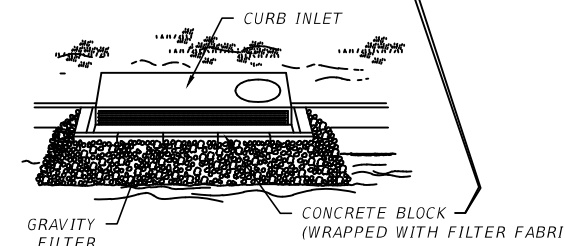
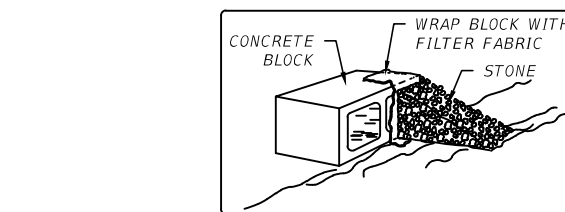
PLAN



SECTION A-A

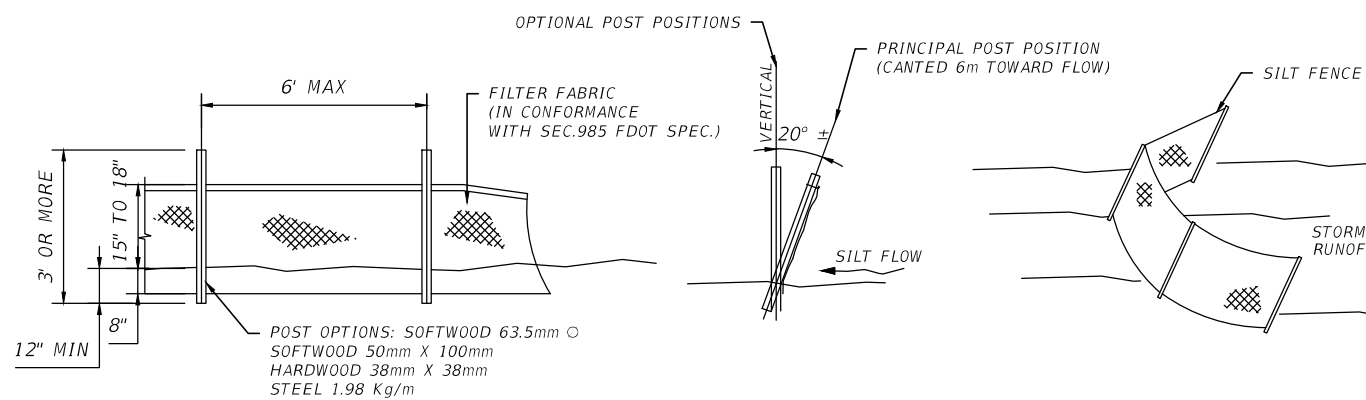
**DETAIL 8
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**

SCALE: NOT TO SCALE



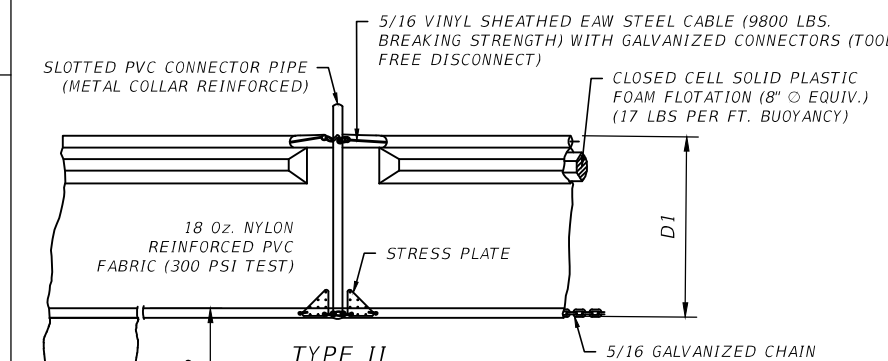
**DETAIL 7
PROTECTION OF INLET**

SCALE: NOT TO SCALE



**DETAIL 10
STACKED SILT FENCE**

SCALE: NOT TO SCALE

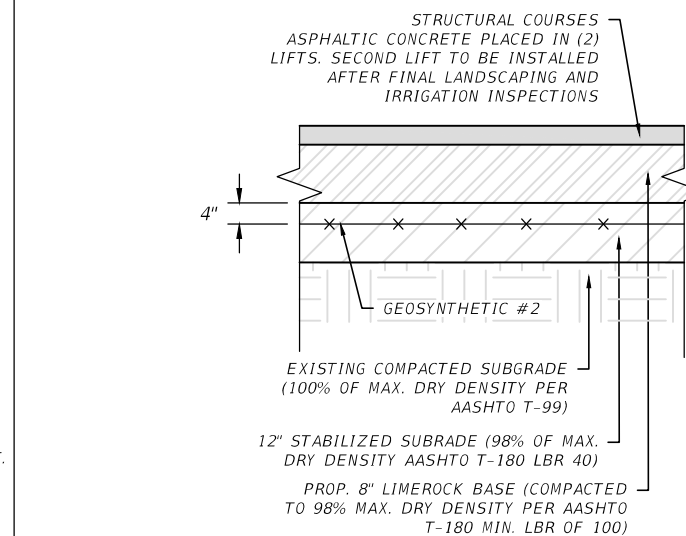


**DETAIL 9
FLOATING TURBIDITY BARRIER**

SCALE: NOT TO SCALE

NOTICE: COMPONENTS OF TYPE 1 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPE 1 SHALL BE AS APPROVED BY THE ENGINEER.

D = 5' STD. (SINGLE PANEL FOR DEPTH 5' OR LESS).
D = 5' STD. (ADDITIONAL PANEL FOR DEPTHS >5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.



**DETAIL 11
ASPHALT DRIVEWAY**

SCALE: NOT TO SCALE

STRUCTURAL COURSE
FC-12.5 (TRAFFIC C) (PG76-22) (1.5")
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (6.5")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

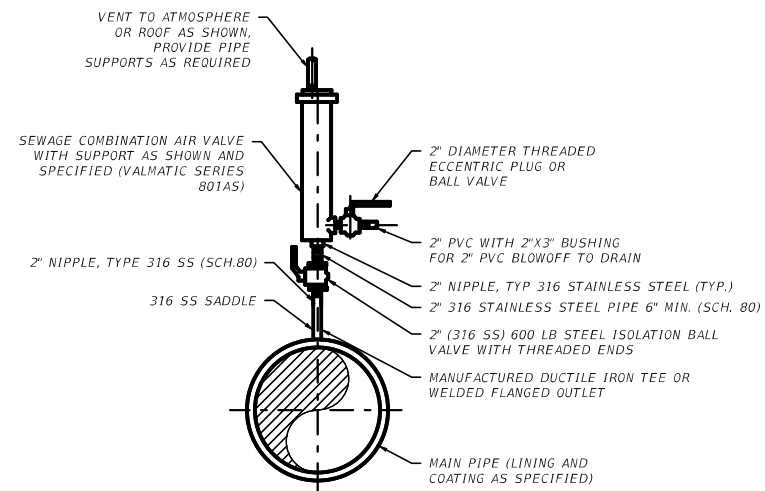
STANTEC CONSULTING SERVICES INC.
MARLON J. MEDINA, P.E.
P.E. License No. 77052
901 Ponce de Leon Blvd., Suite 900
Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

**SEWER PS 25
CIVIL DETAILS - II**

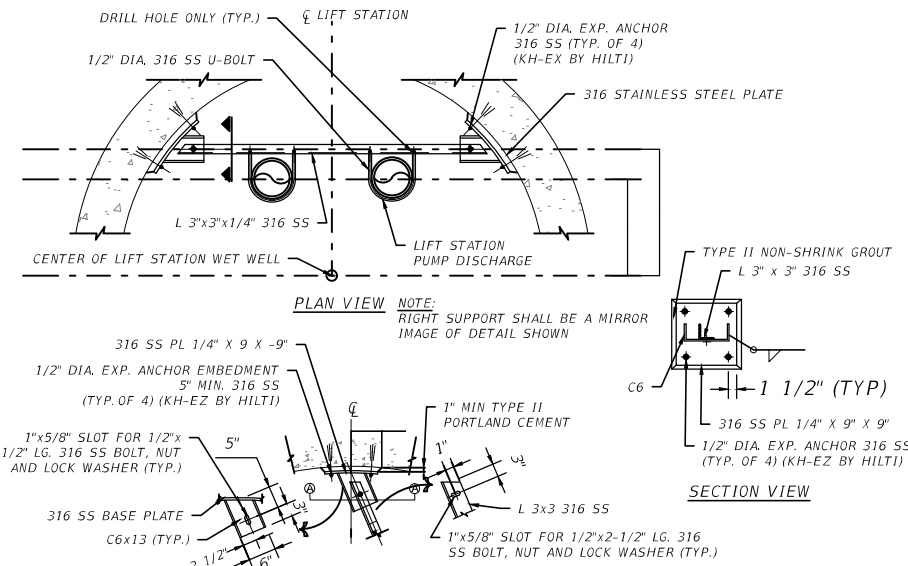
SHEET NO.
PS-17

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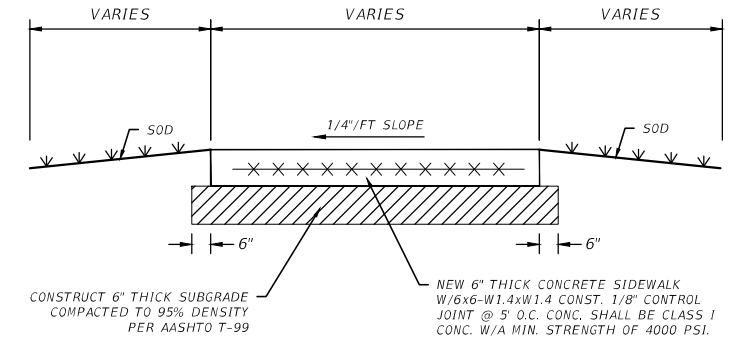


- NOTE:**
- ALL COMPONENTS FOR PIPING SYSTEMS WITH SERVICE PRESSURE CLASS GREATER THAN 150 PSI SHALL BE SUITABLE FOR THE HIGHER PRESSURE.
 - COMBINATION AIR/VACUUM VALVE SHALL BE ALL 316 STAINLESS STEEL CONSTRUCTION AND PROVIDED WITH A SEATING MATERIAL SUITABLE FOR LOW SEATING HEAD APPLICATIONS.
 - C-ARY SHALL BE VAL-MATIC SERIES 801AS, OR GOLDEN-ANDERSON MODEL 942.

DETAIL 13
SEWAGE COMBINATION AIR RELEASE VALVE
SCALE: NOT TO SCALE

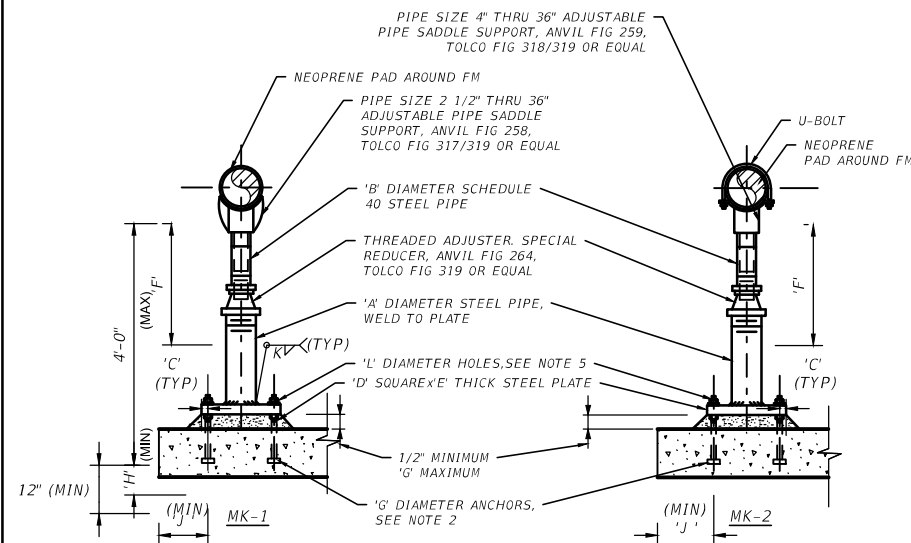


DETAIL 12
INTERIOR PIPE SUPPORT
SCALE: NOT TO SCALE



- NOTES:**
- DESIGN SHOWN IS MINIMUM REQUIREMENTS. CONTRACTOR SHALL IDENTIFY EXIST. DIMENSIONS & REBAR OF EXISTING GOLF CART PATH AND SUBMIT FOR REVIEW AS A SHOP DRAWING.

DETAIL 17
GOLF CART PATH
SCALE: NOT TO SCALE

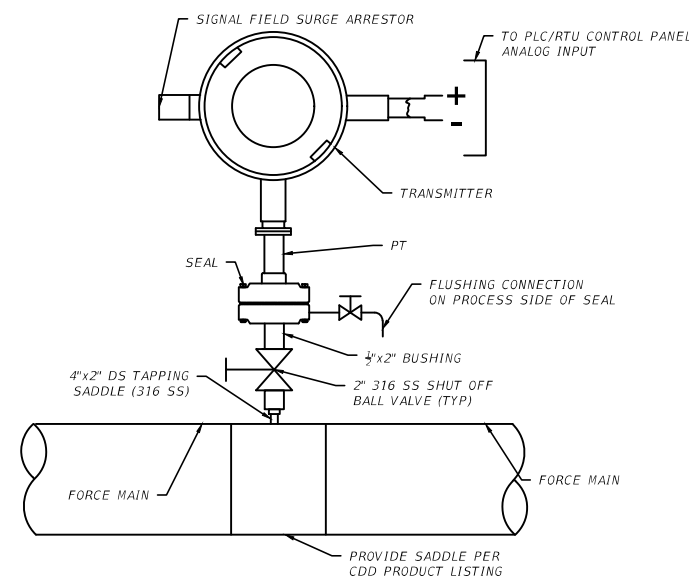


NOMINAL PIPE DIAMETER	'A' (SCH 40 UNO)	'B'	'C'	'D'	'E'	'F' (APPROX)		'G'	'H'	'J'	'K'	'L'
						(MINIMUM)	(MAXIMUM)					
6	3	* 2 1/2 / 3	1 1/4	10	5/8	11 9/16	16 1/16	5/8	5	8	7/16	1 1/16
8	3	* 2 1/2 / 3	1 1/4	10	5/8	13 9/16	18 1/16	5/8	5	8	7/16	1 1/16

NOTES:

- TYPE 304 SS PARTS, UNO. PROVIDE 316 SS PARTS AND BOLTS IN SUBMERGED OR CORROSIVE CONDITIONS.
- PROVIDE CAST-IN-PLACE HEAVY HEX HEAD ASTM F1554 GR 36 ANCHORS, UNO. REFER TO TABLE FOR MAXIMUM ALLOWABLE SERVICE LOAD ON EACH SUPPORT.
- USE MK-2, UNLESS OTHERWISE INDICATED.
- FOR 3/4" ANCHORS AND LARGER, PROVIDE SQUARE WASHERS PER AISC MANUAL OF STEEL CONSTRUCTION TABLE 14-2 WITH STD HOLES WELDED TO PLATE WITH 3/16" FILLETS. USE 1 3/4" 50x3/16" THICK WASHERS FOR 5/8" ANCHORS.

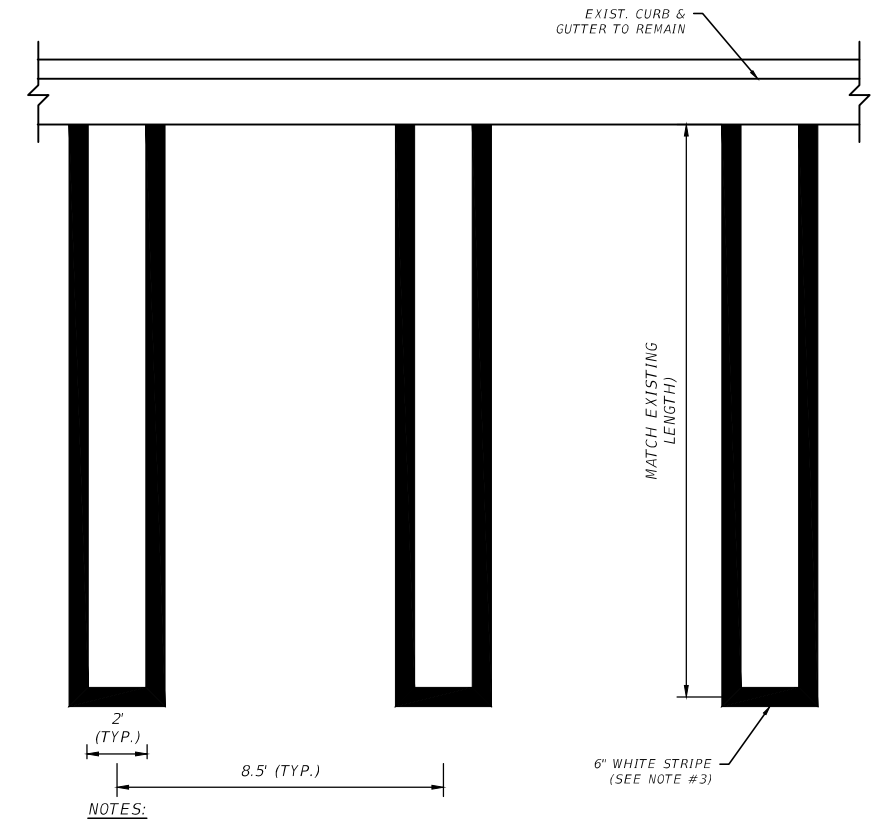
DETAIL 15
ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT "U" BOLT
SCALE: NOT TO SCALE



- CONDUIT 1 CROUSE HINDS GUAT16 3 WAY 1/2" FNPT CONDULET BOX
SA 1 EDCO SS64-036-1 PIPE STYLE SURGE ARRESTOR
LT-1 1 ASHCROFT K1-7-M02-42-C1-60 PRESSURE TRANSMITTER WITH THE FOLLOWING:
A. PRESSURE CONN: 1/4" MNPT
B. POWER: LOOP
C. OUTPUT: 4-20MADC
D. CONDUIT CONN: 1/2" NPT-M CONDUIT
E. RANGE: 0-60 P.S.I.
- SEAL 1 M & G TYPE SG DIAPHRAGM SEAL WITH THE FOLLOWING:
A. INSTRUMENT CONN: 1/4" FNPT
B. PROCESS CONN: 1/2" FNPT
C. UPPER & LOWER CONST. & HARDWARE: 316 SS
D. FLUSHING CONN: 1/4" NPT WITH PLUG

- PRESSURE TRANSMITTER NEEDS TO BE SUBMERSIBLE TYPE, SEE SPECIFICATION

DETAIL 14
PRESSURE TRANSMITTER CONNECTION
SCALE: NOT TO SCALE



- NOTES:**
- PAINT AND THERMOPLASTIC MATERIAL SHALL MEET FDOT SPECIFICATION 971.

DETAIL 16
PARKING STALL RESTORATION
SCALE: NOT TO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

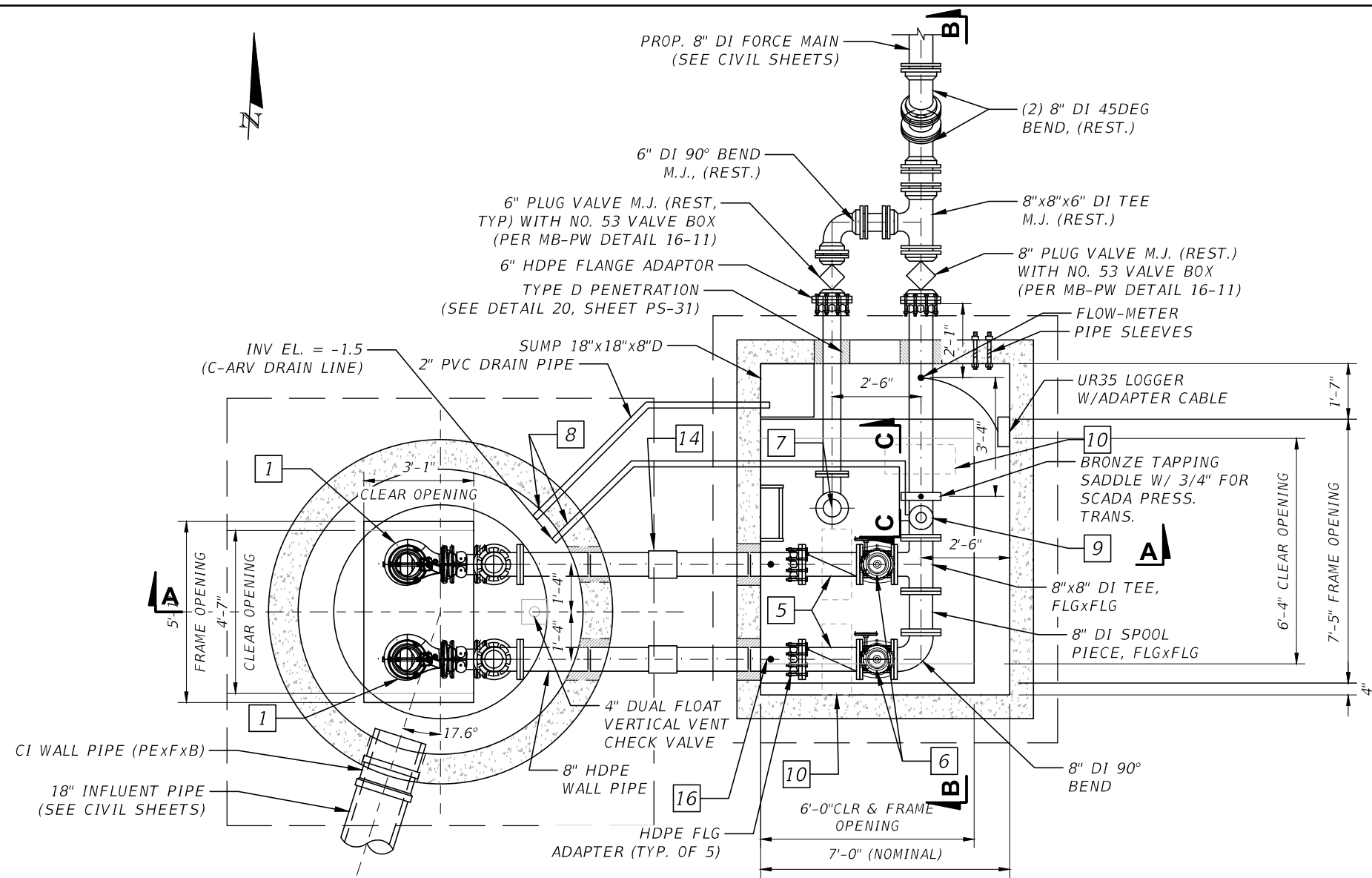
STANTEC CONSULTING SERVICES INC.
MARLON J. MEDINA, P.E.
P.E. License No. 77052
901 Ponce de Leon Blvd., Suite 900
Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
CIVIL DETAILS - III

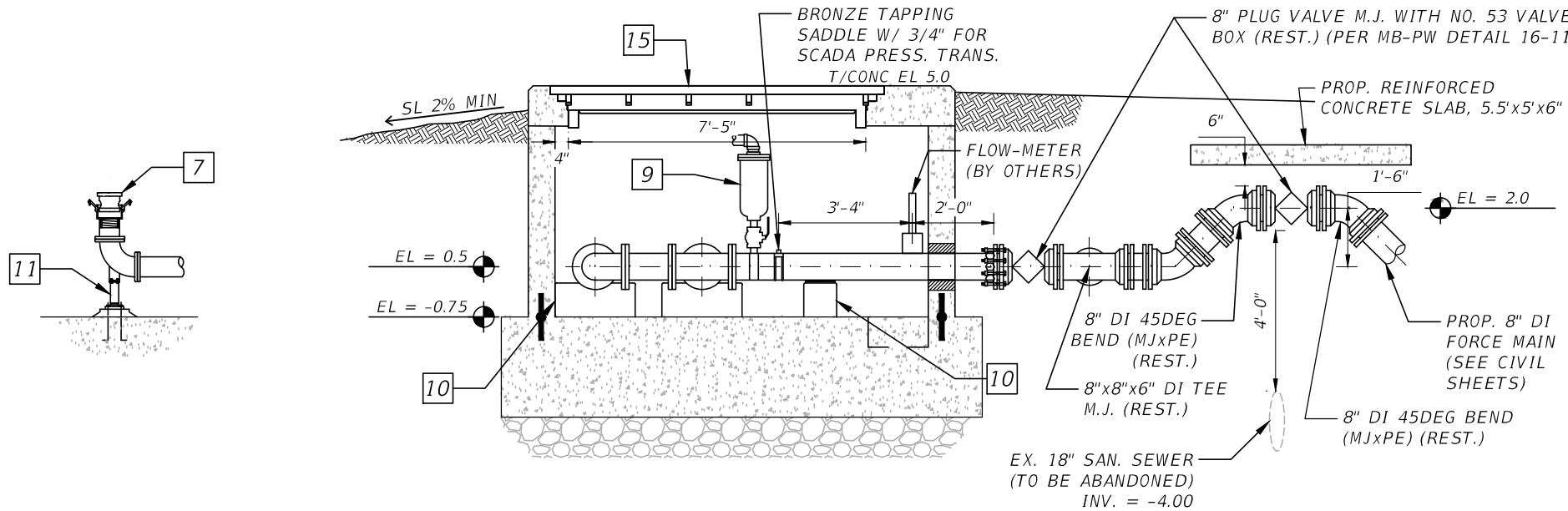
SHEET NO.
PS-18

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SHEET KEYNOTES

1. CENTRIFUGAL SUBMERSIBLE PUMPS (TYP. OF 2)
2. SS FITTED LINK SEAL TYPE PIPE OPENING W/NON-SHRINK EPOXY GROUT ON WETWELL INTERIOR PRIOR TO LINING APPLICATION
3. CONCRETE TOP SLAB CAST WITH WATER-TIGHT ACCESS ALUMINUM HATCH FRAME (OCCASIONAL H-20 LOADING) AND CAPABLE OF WITHSTANDING 5.75' OF HYDROSTATIC PRESSURE USF ZAHS 38"x61" (37.5"x 55" CLR OPENING) WITH SAFETY GRATES.
4. WET WELL LINING COATING (ON ALL INTERIOR CONC. SURFACES), SEE STRUCTURAL PLANS
5. 8" CHECK VALVE, LEVER AND WEIGHT, FLxFL
6. 8" PLUG VALVE, FLGxFLG
7. 6" FLG X 6" MALE NPT WITH 6" FEMALE FLANGED COUPLING ADAPTER (MALE THREADED), AND MALE DUST CAP WITH PETCOCK. ALL MATERIALS SHALL BE 316 SS
8. 2" PIPE OPENINGS, SEAL W/NON-SHRINK EPOXY GROUT AFTER PIPING INSTALLATION (TYP)
9. C-ARV, 2" SS BALL VALVE AND 2" PVC DRAIN FROM ARV TO WETWELL. RUN ARV DISCHARGE ALONG FLOOR AT WALL.
10. CONCRETE PIPE SUPPORTS (SEE STRUCTURAL PLANS)
11. PIPE SUPPORT, SEE DETAIL 16, SHEET PS-18.
12. PUMP BASE ELBOW, PERMANENTLY ANCHORED W/1/4" MOUNTING PLATE AND 3/4" SS ANCHOR BOLTS
13. ELECTRO FUSION COUPLING
14. SOLID COUPLING
15. CONCRETE TOP SLAB CAST WITH WATER-TIGHT ACCESS ALUMINUM HATCH FRAME Z-AHDRB 72x89 (76"x72" CLR OPENING) (OCCASIONAL H-20) CAPABLE OF WITHSTANDING 5.75' OF HYDROSTATIC PRESSURE USF DTZAH 48"x 76" CLR OPENING)
16. TAPPING SADDLE (316 SS) WITH 1/2" GALV. STEEL NIPPLE, 1/2" REDUCER, AND 1/4" BALL VALVE AND 4" PRESSURE GAUGE (0-60PSI)



PUMP STATION SECTION C-C
SCALE: 0 2 4 8

PUMP STATION SECTION B-B
SCALE: 0 2 4 8

PUMP DATA		
FLUID	SEWER	
INSTALLATION LOCATION	WET WELL	
PUMP TYPE	SUBMERSIBLE	
RATED POINT	CAPACITY, GPM	570
	TDH, FEET	58
	PUMP EFFICIENCY, %	69.1
CONTINUOUS OPERATING RANGE	MAXIMUM TDH, FT	83
	CAPACITY, GPM	90
	MINIMUM TDH, FT	36
	CAPACITY, GPM	890
	NPSHR	11.4
PUMP CONNECTIONS	MINIMUM PUMP EFFICIENCY	25
	SUCTION, INCHES	4
	DISCHARGE, INCHES	4
ELECTRIC MOTOR	IMPELLER DIAMETER	228mm
	RATED HP	14
	RPM	1760
	RATED VOLTAGE, V	460
MANUFACTURERS AND MODELS	PHASE	3
	PUMP	SULZER XFP 100E CB1 PE 105/4-E 60Hz

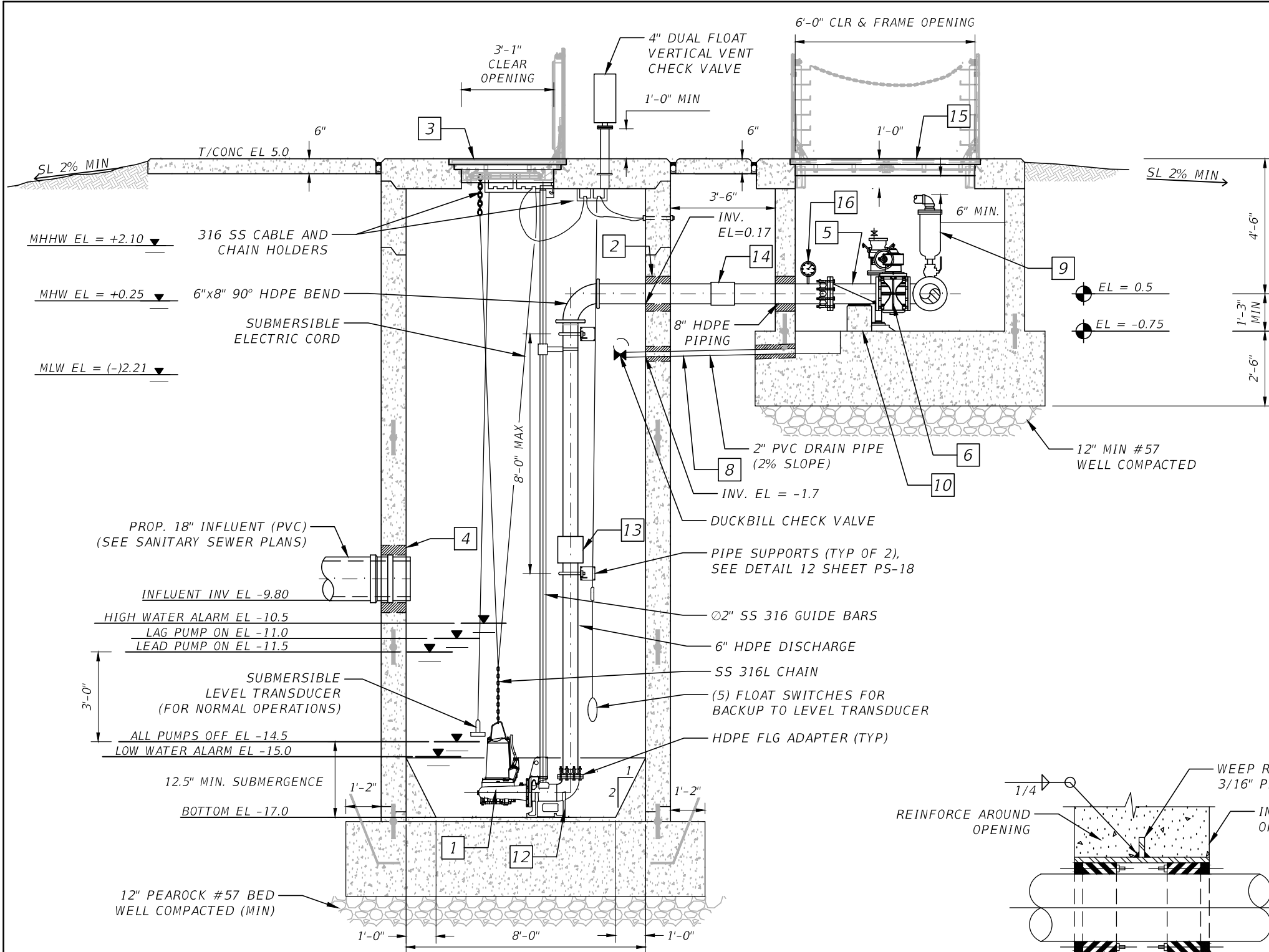
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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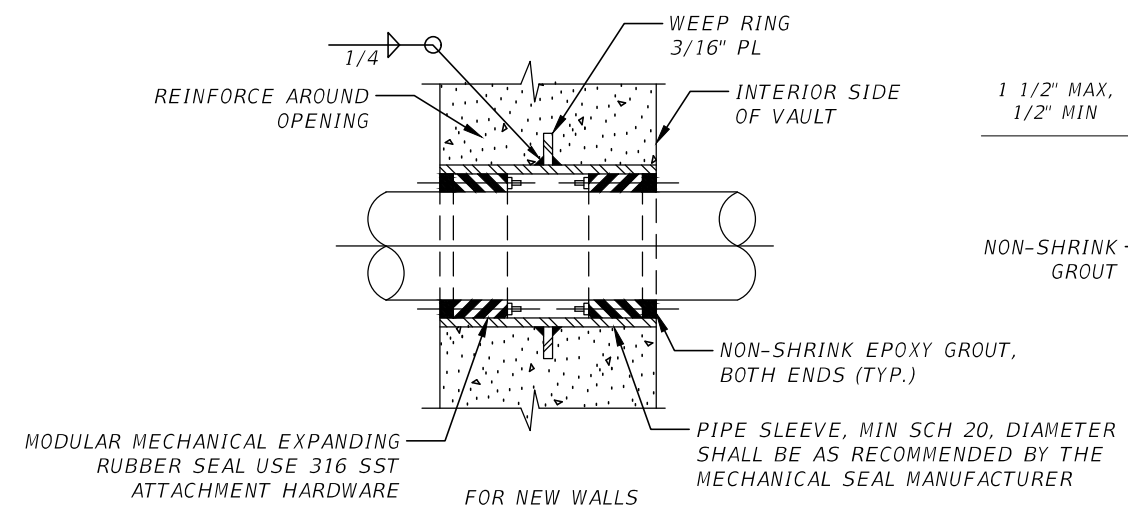
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
MECHANICAL PLAN AND
SECTION - I
SHEET NO. PS-19

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PUMP STATION SECTION A-A
SCALE: 0 2' 4' 8'



TYPE D PIPE PENETRATION
DETAIL 20 PIPE PENETRATION
SCALE: NOT TO SCALE

TYPE X1 PIPE PENETRATION

SHEET KEYNOTES

1. CENTRIFUGAL SUBMERSIBLE PUMPS (TYP. OF 2)
2. SS FITTED LINK SEAL TYPE PIPE OPENING W/NON-SHRINK EPOXY GROUT ON WETWELL INTERIOR PRIOR TO LINING APPLICATION
3. CONCRETE TOP SLAB CAST WITH WATER-TIGHT ACCESS ALUMINUM HATCH FRAME (OCCASIONAL H-20 LOADING) AND CAPABLE OF WITHSTANDING 5.75' OF HYDROSTATIC PRESSURE USF ZAHS 38"x61" (37.5"x 55" CLR OPENING) WITH SAFETY GRATES. CONTRACTOR SHALL PROVIDE ANCHORAGE DETAIL OF HATCH TO CONTRACTOR AND SUBMIT FOR APPROVAL PRIOR TO CONSTRUCTION.
4. WET WELL LINING COATING (ON ALL INTERIOR CONC. SURFACES), SEE STRUCTURAL PLANS
5. 8" CHECK VALVE, LEVER AND WEIGHT, FLxFL
6. 8" PLUG VALVE, FLGxFLG
7. 6" FLG X 6" MALE NPT WITH 6" FEMALE FLANGED COUPLING ADAPTER (MALE THREADED), AND MALE DUST CAP WITH PETCOCK. ALL MATERIALS SHALL BE 316 SS
8. 2" PIPE OPENINGS, SEAL W/NON-SHRINK EPOXY GROUT AFTER PIPING INSTALLATION (TYP) RUN ARV DISCHARGE ALONG FLOOR AT WALL
9. C-ARV, 2" SS BALL VALVE AND 2" PVC DRAIN FROM CAV TO WETWELL
10. CONCRETE PIPE SUPPORTS (SEE STRUCTURAL PLANS)
11. PIPE SUPPORT, SEE DETAIL 16, SHEET PS-18.
12. PUMP BASE ELBOW, PERMANENTLY ANCHORED W/1/4" MOUNTING PLATE AND 3/4" SS ANCHOR BOLTS
13. ELECTRO FUSION COUPLING
14. SOLID COUPLING
15. CONCRETE TOP SLAB CAST WITH WATER-TIGHT ACCESS ALUMINUM HATCH FRAME Z-AHDRB 72x89 (76"x72" CLR OPENING) (OCCASIONAL H-20) CAPABLE OF WITHSTANDING 5.75' OF HYDROSTATIC PRESSURE USF DTZAH 48"x 76" CLR OPENING). CONTRACTOR SHALL PROVIDE ANCHORAGE DETAIL OF HATCH TO CONTRACTOR AND SUBMIT FOR APPROVAL PRIOR TO CONSTRUCTION.
16. TAPPING SADDLE (316 SS) WITH 1/2" GALV. STEEL NIPPLE, 1/2" REDUCER, AND 1/4" BALL VALVE AND 4" PRESSURE GAUGE (0-60PSI)

DATUM = NAVD88
NGVD29 = NAVD88 + 1.55'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

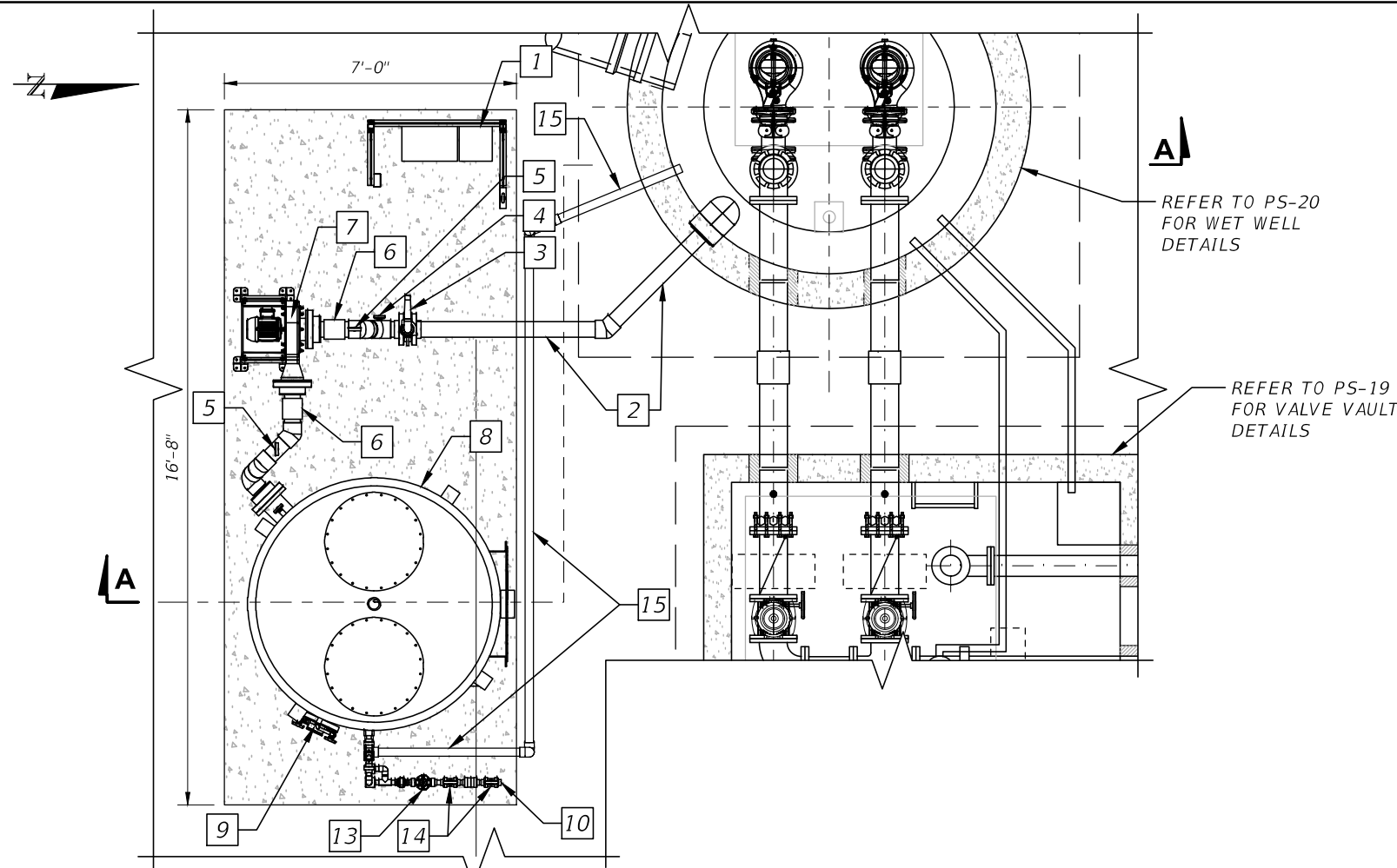
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SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
MECHANICAL PLAN AND
SECTION-II

SHEET NO.
PS-20

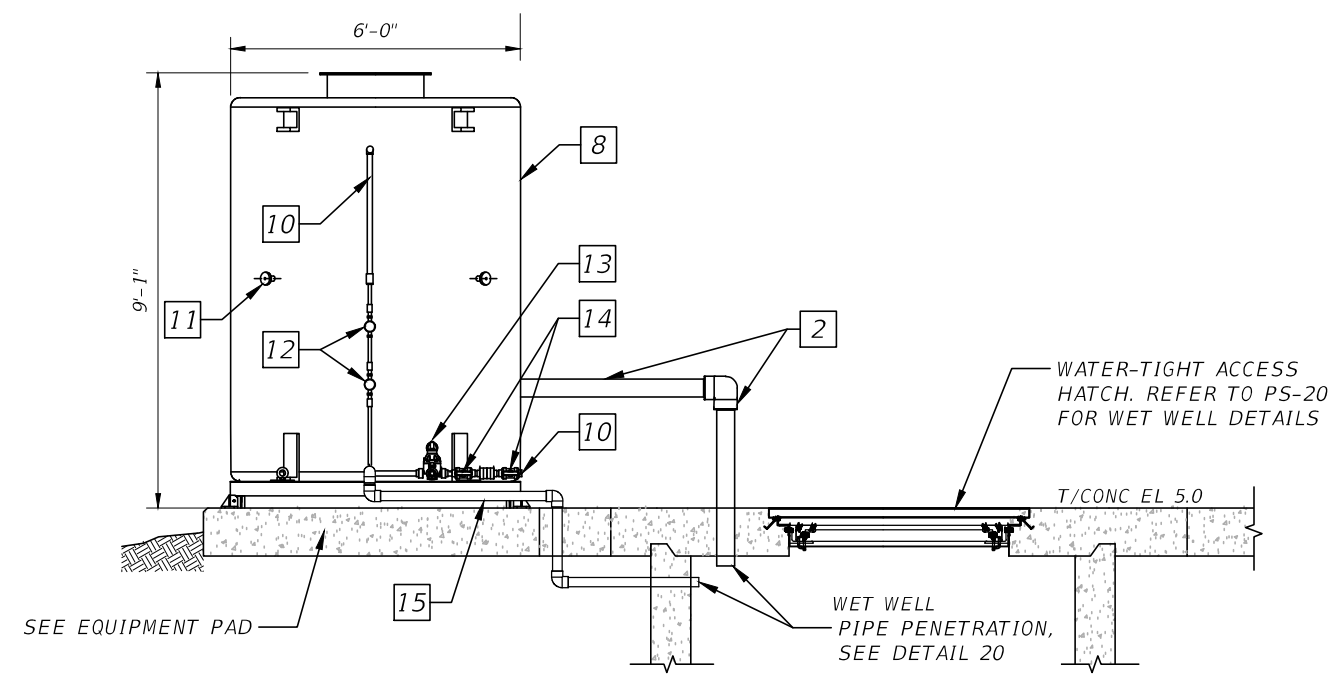
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ODOR CONTROL UNIT PLAN

SCALE: 0 2 4 8

- # SHEET KEYNOTES
1. PROPOSED ELECTRICAL PANEL WITH VFD PANEL. BOTTOM PANEL SHALL BE RAISED ABOVE DFE EL. 9.45
 2. PROPOSED 6" PVC SCH 80 INLET DUCTWORK
 3. PROPOSED ISOLATION DAMPER
 4. PROPOSED TEMPERATURE INDICATOR
 5. PROPOSED PRESSURE INDICATOR
 6. PROPOSED FLEXIBLE COUPLING
 7. PROPOSED EXHAUST FAN. EXHAUST FAN SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 9.8 NAVD
 8. PROPOSED 6' DIAMETER BIOFILTER TANK
 9. PRESSURE DIFFERENTIAL INDICATOR
 10. PROPOSED WATER CONNECTION FOR ODOR CONTROL UNIT
 11. PROPOSED TEMPERATURE INDICATOR (TYP)
 12. PROPOSED FLOW TOTALIZER
 13. PROPOSED PRESSURE REGULATING VALVE
 14. PROPOSED 1" SS 1BALL VALVE
 15. PROPOSED DRAIN FROM BIOFILTER TANK



ODOR CONTROL UNIT SECTION A-A

SCALE: 0 2 4 8

DATUM = NAVD88
 NGVD29 = NAVD88 + 1.55'

REVISIONS			
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SEWER PS 25
MECHANICAL PLAN AND
SECTION - III

SHEET NO.
 PS-21

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GENERAL NOTES

- THE GOVERNING BUILDING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 2023 EDITION . THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCED STANDARD APPLIES TO THIS PROJECT.
- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE ONLY PICTORIAL. SEE THE CIVIL AND M.E.P. DRAWINGS FOR THE SIZE AND LOCATION OF OPENINGS IN THE STRUCTURE.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE CIVIL ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS; USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES IN WRITING TO THE CIVIL ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- DESIGN LOADINGS
 - LIVE LOADS
WET WELL AND VALVE VAULT BASE SLAB 300 PSF UNIFORM OR 8,000 LB
WET WELL AND VALVE VAULT LID SLAB H-20 AND 5.75 FT HYDROSTATIC FLOOD LOAD
STEEL PLATFORM AND STAIRS 100 PSF UNIFORM
 - DEAD LOADS
PLATFORM SUPERIMPOSED 25 PSF
 - WIND LOADS
RISK CATEGORY III
ULTIMATE DESIGN WIND SPEED Vult = 186 MPH
NOMINAL DESIGN WIND SPEED Vasd = 145 MPH
- ALL STRUCTURAL COMPONENTS SHALL BE BUILT IN ACCORDANCE WITH ASCE 24-14 SECTION 7.
- ELEVATIONS SHOWN ON PLANS REFER TO NORTH AMERICAN DATUM OF 1988 (NAVD88).

SHOP DRAWINGS

- TWENTY WORKING DAYS PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR EOR'S REVIEW A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SHOP DRAWINGS AND THE DATE THE SHOP DRAWINGS WILL BE RECEIVED BY THE CIVIL ENGINEER. THE EOR SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE EOR. IN ACCORDANCE WITH THE SHOP DRAWING SCHEDULE, THE EOR WILL RETURN THE SHOP DRAWING ITEMS WITHIN TEN WORKING DAYS, UNLESS OTHERWISE NEGOTIATED BETWEEN STANTEC AND THE CLIENT, AFTER HAVING RECEIVED THE ELECTRONIC SHOP DRAWING.
- SUBMIT SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS, ETC., IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER.
- ON FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS. ON RESUBMITTALS, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTAL; ONLY CLOUDED ITEMS WILL BE REVIEWED.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITES, FOR TOLERANCES, CLEARANCES, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWING PRIOR TO SUBMITTING TO THE CIVIL ENGINEER. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE, COMPLIES WITH THE SUBMITTAL REQUIREMENTS AND IS COORDINATED WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTABILITY.

- THE STRUCTURAL ENGINEER OF RECORD REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS ARE NOT CHECKED. NOTATIONS ON SUBMITTALS DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.
- THE CONTRACTOR MAY REQUEST CAD FILES OF THE STRUCTURAL DRAWINGS, WHICH MAY BE PROVIDED - AT THE STRUCTURAL ENGINEER OF RECORD'S DISCRETION - UPON A WRITTEN AGREEMENT BETWEEN THE ENGINEER OF RECORD AND THE GENERAL CONTRACTOR.
- THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR REVIEW:
 - REINFORCING STEEL
 - CONCRETE/GROUT MIXES
 - PRODUCT DATA/ACCESSORIE
 - STRUCTURAL STEEL

DEFERRED SUBMITTALS

- REFER TO NOTES SECTION TITLED "SHOP DRAWINGS" FOR ADDITIONAL REQUIREMENTS.
- DEFERRED SUBMITTALS FOR SPECIAL STRUCTURAL, LOAD-CARRYING ITEMS THAT ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES MUST BE PREPARED BY, OR UNDER THE DIRECT SUPERVISION OF A DELEGATED ENGINEER. THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTALS TO THE CIVIL ENGINEER FOR REVIEW. THE CONTRACTOR SHALL SUBMIT THE REVIEWED DEFERRED SUBMITTAL DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- A DELEGATED ENGINEER IS DEFINED AS AN ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS LOCATED WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR OFFICER OF, OR CONSULTANT TO, THE CONTRACTOR OR FABRICATOR RESPONSIBLE FOR THE SUBMITTAL. THE DELEGATED ENGINEER SHALL SIGN, SEAL AND DATE THE SUBMITTAL, INCLUDING CALCULATIONS AND DRAWINGS.
- THE STRUCTURAL ENGINEER OF RECORD'S REVIEW OF DEFERRED ENGINEER SUBMITTALS IS LIMITED TO VERIFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED, SIGNED AND SEALED BY THE DELEGATED ENGINEER AND THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE. THE DELEGATED ENGINEER IS SOLELY RESPONSIBLE FOR HIS/HER DESIGN, INCLUDING BUT NOT LIMITED TO THE ACCURACY OF HIS/HER CALCULATIONS AND COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.
- THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS - SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW:
 - FENCES
 - PRECAST STRUCTURES AND ALL PRECAST CONNNECTIONS
 - CONTROL PANEL ANCHORAGE TO VERTICAL STEEL SUPPORTS

SHALLOW FOUNDATIONS

- FOUNDATIONS DESIGN, SOIL PREPARATION AND COMPACTION ARE BASED ON THE REPORT OF GEOTECHNICAL EXPLORATION IN REPORT BY UNIVERSAL ENGINEERING SCIENCES (UES) DATED JULY 14, 2023, UES PROJECT NO. 0630.2300119.000.
- FOOTING SIZES AND REINFORCING ARE BASES ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2,500 PSF. ALL FOOTINGS SHALL BEAR ON NATURAL SOIL OR ROCK PREPARED PER THE GEOTECHNICAL REPORT.
- SUBGRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED SOIL ENGINEER IN ACCORDANCE WITH GEOTECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, CIVIL ENGINEER, CONTRACTOR AND STRUCTURAL ENGINEER OF RECORD A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT HAVE BEEN FOLLOWED.
- CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNO.

EXCAVATION, BACKFILL AND DEWATERING

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
- DO NOT BACKFILL AGAINST WALLS UNTIL 7 DAYS AFTER THE WALLS ARE BRACED BY THE STRUCTURE OR ARE TEMPORARY BRACED. DO NOT BACKFILL CANTILEVERED RETAINING WALLS UNTIL CONCRETE IS 3 DAYS OLD. DO NOT BACKFILL UNTIL AFTER COMPLETION AND INSPECTION OF ANY WATERPROOFING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.
- PEAT AND ANY UNSUITABLE MATERIAL SHALL BE REMOVED IN IT'S ENTIRETY FROM ALL PROPOSED EXCAVATIONS.
- SEE GEOTECHNICAL REPORTS FOR ADDITIONAL REQUIREMENTS.

SLABS ON GRADE

- REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12 INCHES BELOW BOTTOM OF SLAB.
- IF FILL IS BROUGHT IN TO BE USED AS BACKFILL (IF NEEDED,) IT SHALL BE INORGANIC (CLASSIFIED AS SP/SW) CONTAINING NOT MORE THAN 5% (BY WEIGHT) OF FIBROUS ORGANIC MATERIALS. FILL MATERIALS WITH SILT-SIZE SOIL FINES IN EXCESS OF 10% SHOULD NOT BE USED, THIS INCLUDES CYCLONE SAND MATERIAL. PLACE FILL AND COMPACT EACH LIFT TO A MIN. DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) WITH A TAMPER. DEWATERING TECHNIQUES WILL BE NECESSARY.
- FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MIN. OF ONE FIELD DENSITY TEST (ASTM D-1556 OR D-2922) FOR EACH 2,500 SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
- COORDINATE WITH CIVIL DRAWINGS FOR SLAB ON GRADE SLOPES, ELEVATIONS AND EXTENTS.

REINFORCED CONCRETE

- COMPLY WITH ACI 301 AND 318.
- PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM COMPRESSIVE DESIGN STRENGTH OF 5000 PSI IN 28 DAYS, UNO.
- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS UNO.
- THE USE OF CALCIUM CHLORIDE AND/OR OTHER CHLORIDE CONTAINING AGENTS IN CONCRETE IS PROHIBITED.
- PROVIDE ASTM A-615 GRADE 60 NON-EPOXY COATED REINFORCING STEEL. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR DIA. PROVIDE COVER OVER REINFORCING AS FOLLOWS:

ELEMENT	BOTTOM	TOP	SIDES
FOOTINGS AND PILE CAPS	3"	2"	3"
BEAMS - NEWCG	1 1/2"	1 1/2"	1 1/2"
BEAMS - ALL OTHERS	2"	2"	2"
COLUMNS - NEWCG	-	-	1 1/2"
COLUMNS - ALL OTHERS	-	-	2"
SLABS ON GRADE	2"	1"	2"
SLABS - NEWCG	3/4"	3/4"	1"
SLABS - COVERED GARAGE	3/4"	1"	1"
SLABS - ALL OTHERS	1 1/2"	1 1/2"	1 1/2"
WALLS RETAINING FILL	-	-	2"
WALLS - NEWCG	-	-	1"
WALLS - ALL OTHERS	-	-	1 1/2"

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 907	MIAMI-DADE	429193-1-56-01

7. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTIONS 26.5.6 AND 26.5.7. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
8. PROVIDE 3/4" CHAMFER FOR ALL EXPOSED CORNERS.
9. PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.
10. SUBMIT ALL CONCRETE MIX DESIGN INDICATING CONCRETE STRENGTH, SPECIFICATIONS FOR ADMIXTURES, PROPOSED LOCATIONS OF USE AND AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE. DO NOT ADD AIR ENTRAINING ADMIXTURES FOR SLABS ON GRADE.
11. SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, SPACING, MATERIAL GRADE, BAR SCHEDULES, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS AND SUPPORTS FOR CONCRETE REINFORCEMENT.

STEEL

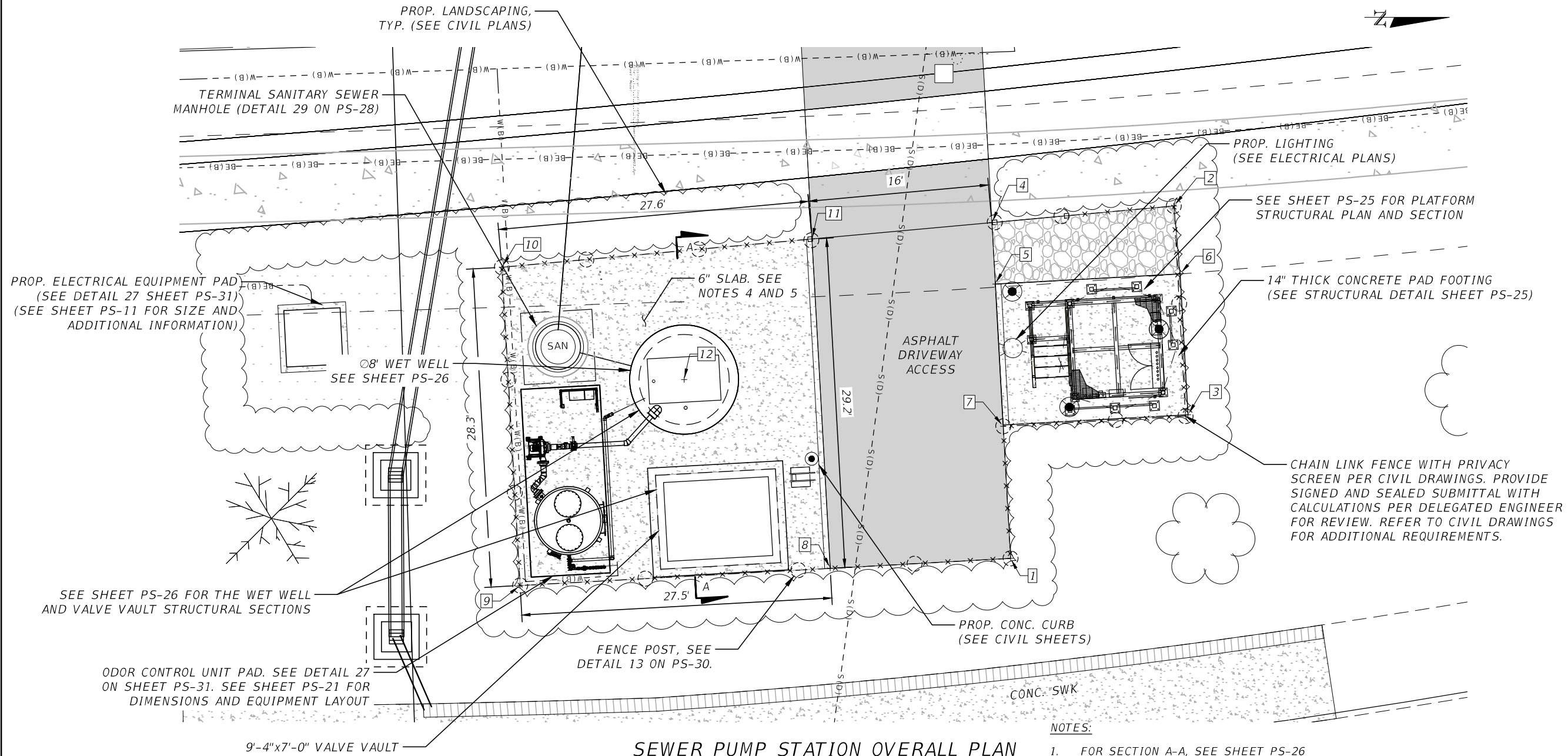
1. PROVIDE STRUCTURAL STEEL TO FOLLOWING GRADES:
 - 1.1. WIDE FLANGE SECTIONS: ASTM 992 (50 KSI)
 - 1.2. HSS SQ. & RECT. SECTIONS: ASTM A500 GRADE B OR C (50 KSI)
 - 1.3. HP-SHAPES AND PLATES A572 GR. 50
 - 1.4. MISCELLANEOUS STEEL: ASTM A36 (36 KSI)
2. FABRICATOR TO BE CERTIFIED UNDER AWS AND AISC. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
3. DIMENSIONS SHOWN ARE TO CENTER LINES OF SECTIONS AND TO BACK OF CHANNELS OR ANGLES UNLESS NOTED OTHERWISE. ELEVATIONS SHOWN ARE TO TOP OF STEEL UNLESS NOTED OTHERWISE.
4. PROVIDE ERECTION BOLTS TO ASTM F3125 MINIMUM 3/4". DESIGN BOLTED CONNECTIONS TO ASTM F3125 FOR THREADS EXCLUDED FROM SHEAR PLANE. TIGHTEN BOLTS BY THE "TURN OF NUT" METHOD.
5. FIELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW AND APPROVAL BY THE ENGINEER.
6. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A DELEGATED ENGINEER. ALL DESIGNED MEMBER SIZES AND CONNECTIONS ARE MINIMUM REQUIREMENTS. ENGINEER SHALL PROVIDE SIGNED AND SEALED STRUCTURAL CALCULATIONS BY A FLORIDA LICENSED STRUCTURAL ENGINEER.
 - 6.1. BOLTS - ASTM F3125 3/4" (MIN.) MINIMUM TWO (2) BOLTS PER CONNECTION. BRACING OR MEMBERS SUBJECT TO STRESS REVERSAL SHALL BE FRICTION TYPE. (MASK CONTACT SURFACES BEFORE PAINTING.)
 - 6.2. MINIMUM WELDS FOR CONNECTIONS SHALL BE 3/16" FILLET WELD.
7. PROVIDE BOLT HOLES IN STRUCTURAL STEEL WHERE SHOWN AND WHERE REQUIRED FOR THE ATTACHMENT OF BOLTED BLOCKING OR FASTENINGS BY OTHER TRADES.
8. PROVIDE CLOSURE PLATES AT ALL OPEN ENDS OF ALL H.S.S. MEMBERS AND SEAL WELD. PLATE THICKNESS TO EQUAL WALL THICKNESS OF H.S.S. MEMBER.
9. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATION. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.
10. ALL STEEL IS TO BE HOT-DIP GALVANIZED PER THE SPECIFICATIONS, UNLESS NOTED OTHERWISE.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-23
					SR 907	MIAMI-DADE	429193-1-56-01		

GEOMETRY TABLE		
Point #	Northing	Easting
1	535409.207	939754.707
2	535423.673	939723.487
3	535424.925	939741.987
4	535407.560	939724.951

GEOMETRY TABLE		
Point #	Northing	Easting
5	535407.863	939730.412
6	535424.234	939729.506
7	535408.560	939743.006
8	535393.233	939755.594

GEOMETRY TABLE		
Point #	Northing	Easting
9	535365.763	939757.111
10	535364.147	939728.912
11	535391.618	939726.410
12	535380.288	939738.867



SEWER PUMP STATION OVERALL PLAN

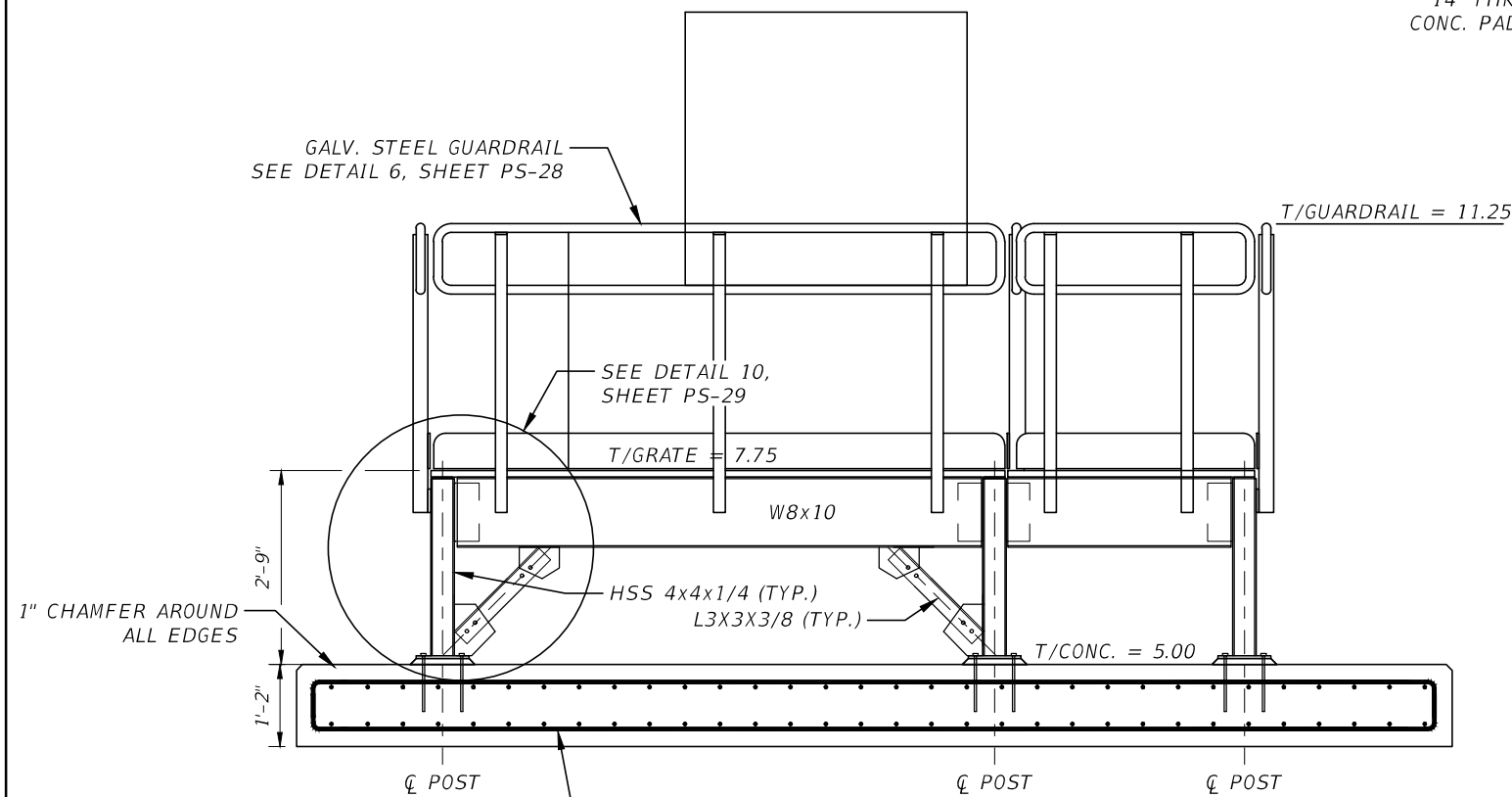
SCALE: 1" = 10'

NOTES:

1. FOR SECTION A-A, SEE SHEET PS-26
2. REFER TO SHEET PS-10 FOR OVERALL SITE PLAN.
3. REFER TO SHEET PS-11 ENLARGED SITE PLAN.
4. SEE DETAIL 21 ON SHEET PS-31 FOR SLAB DETAILS. PROVIDE SLAB CONTRACTION JOINTS PER DETAIL 24 ON SHEET PS-31 AT A MAXIMUM OF 12 FEET ON CENTER. CONTRACTOR TO SUBMIT CONTRACTION JOINT LAYOUT FOR APPROVAL.
5. PROVIDE ISOLATION JOINTS BETWEEN SLAB AND ADJACENT CONCRETE STRUCTURES PER DETAIL 20 ON SHEET PS-31.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

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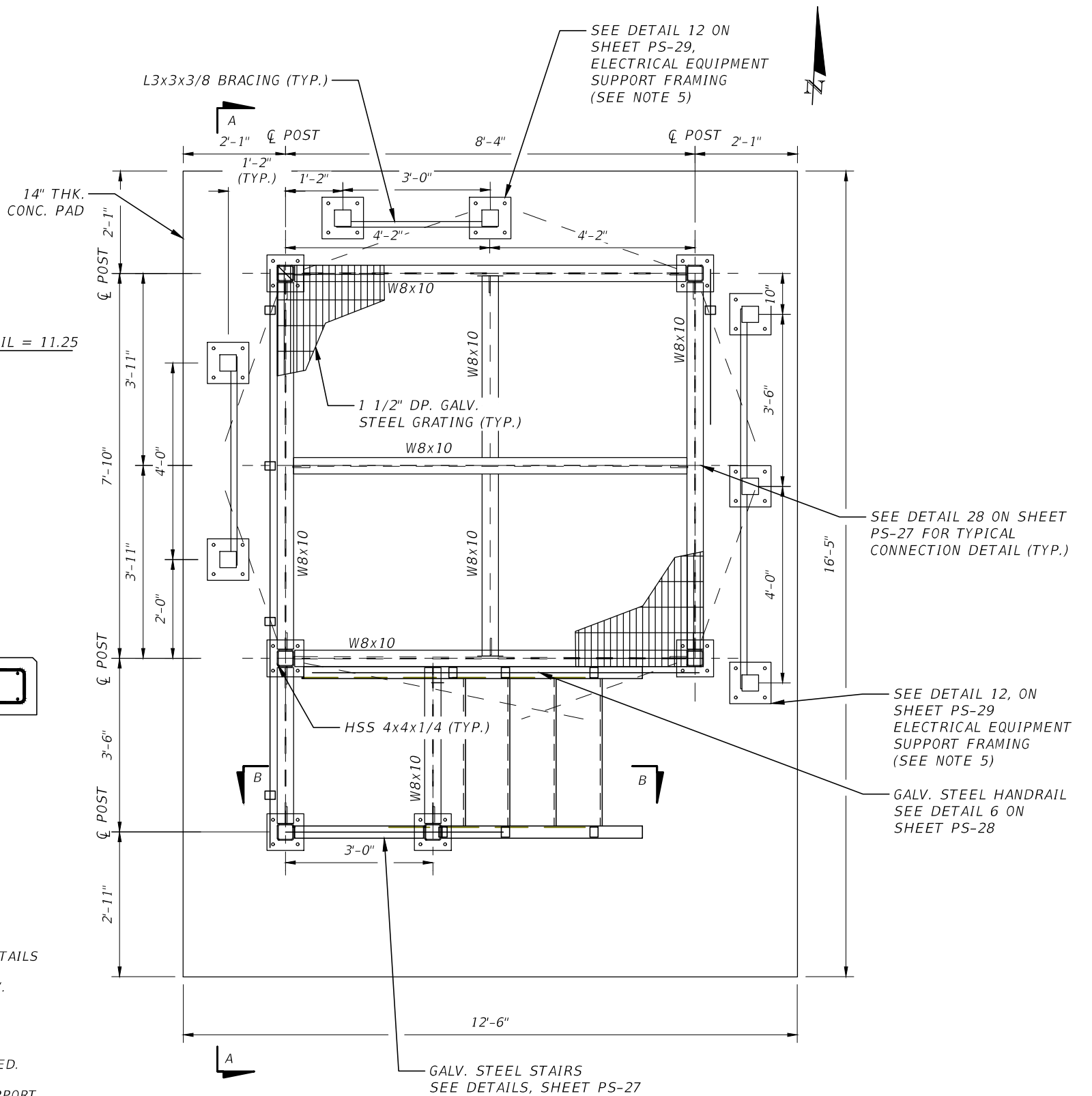


SECTION A-A
SCALE: 3/8" = 1'-0"

NOTES:

1. SEE DETAIL 10, SHEET PS-29 FOR BRACING AND COLUMN CONNECTION DETAILS
2. SEE DETAIL 7, SHEET PS-28 FOR FIXED HANDRAIL BASE DETAIL TO GALV. FRAMING CONNECTIONS.
3. FOR SECTION B-B, SEE SHEET NO. PS-27
4. ALL COMPONENTS OF THE STEEL PLATFORM SHALL BE HOT DIP GALVANIZED.
5. DIMENSIONS SHOWN ARE PRELIMINARY. FINAL LAYOUT OF ELECTRICAL SUPPORT FRAMING TO BE COORDINATED WITH APPROVED EQUIPMENT SUBMITTALS AS REQUIRED. DISCONTINUE PLATFORM GUARDRAIL IN FRONT OF ELECTRICAL PANELS AS REQUIRED FOR ACCESS.

DATUM = NAVD88
NGVD29 = NAVD88 + 1.55'



STEEL PLATFORM PLAN
SCALE: 3/8" = 1'-0"

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-25
					SR 907	MIAMI-DADE	429193-1-56-01		

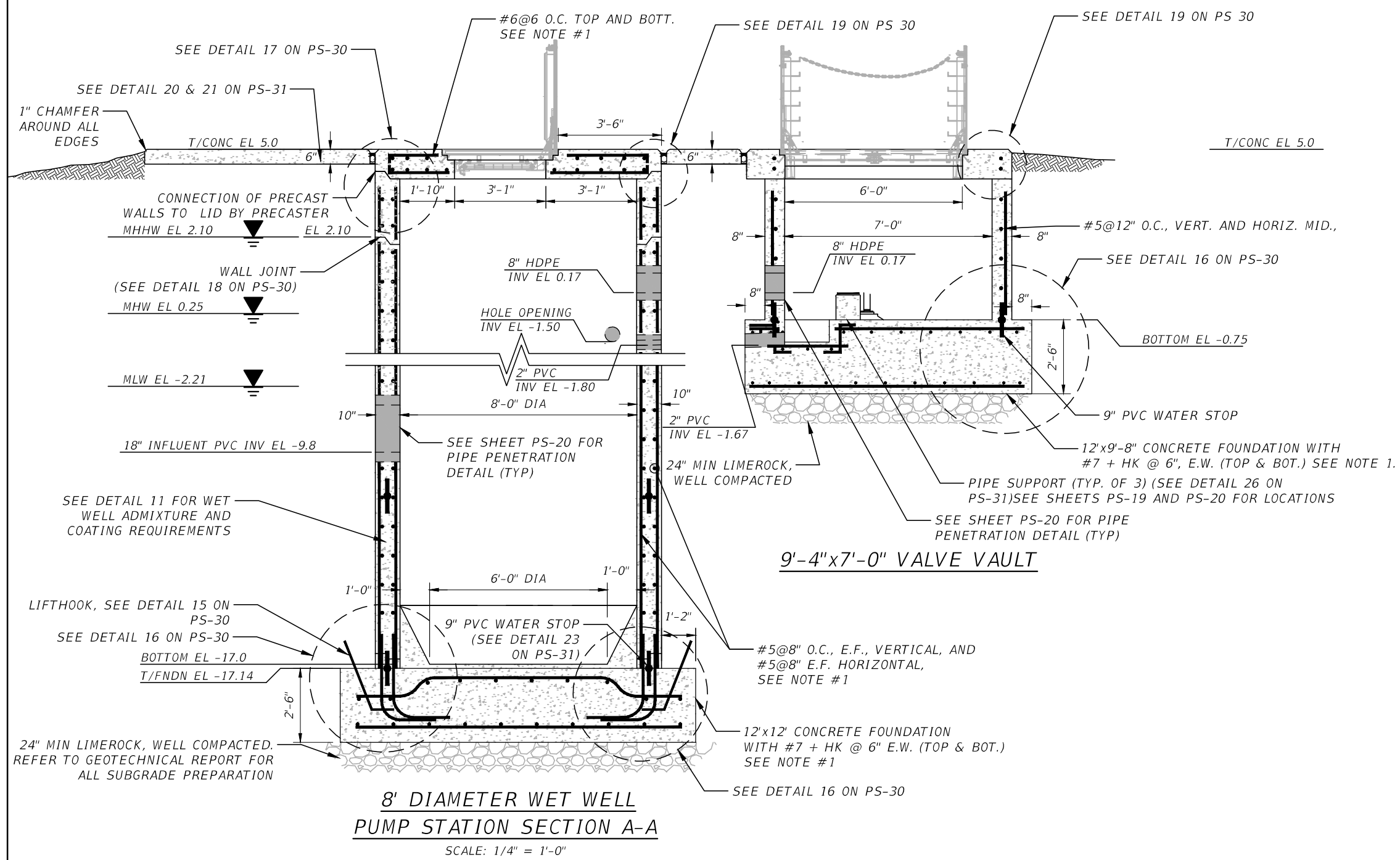
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES:

1. WET WELL AND VALVE VAULT SHALL BE PRECAST OFFSITE AND DELIVERED AND INSTALLED BY THE CONTRACTOR. CONCRETE THICKNESSES AND REINFORCEMENT ASSOCIATED WITH THE STRUCTURES ARE PRELIMINARY. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DRAWINGS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA FOR APPROVAL PRIOR TO CONSTRUCTION.
2. REFER TO DRAWINGS PS-19 AND PS-20 FOR ADDITIONAL INFORMATION INCLUDING ACCESS HATCH SIZES AND PIPE PENETRATIONS, LOCATIONS AND ELEVATIONS.

WET WELL NOTES:

1. BACKFILL BELOW ON GRADE WALLS SHALL BE APPROVED SAND FILL AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND COMPACTED TO A MIN. DRY DENSITY BETWEEN 92 AND 95 PERCENT OF THE MAX. MODIFIED PROCTOR DRY DENSITY. OVERCOMPACTION SHALL BE AVOIDED.
2. THE BOTTOM OF FOUNDATION EXCAVATIONS SHALL BE COMPACTED AFTER EXCAVATION TO DEVELOP A MIN. DENSITY REQUIREMENT OF 98% OF THE MAX. MODIFIED PROCTOR DRY DENSITY, FOR A MIN. DEPTH OF ONE (1) FOOT OF THE BOTTOM OF THE FOOTING DEPTH, AS DETERMINED BY FIELD DENSITY COMPACTION TESTS.
3. WET WELL CONSTRUCTION JOINTS - THE ENTIRE REINFORCE CONCRETE STRUCTURE FOR THE WET WELL SHALL BE WATERTIGHT. PREFERABLY NO CONSTRUCTION JOINTS UNDERGROUND WATER LEVEL. MIN. DISTANCE BETWEEN WALL JOINTS WITH PVC WATER STOP SHALL BE 8 FOOT.
4. CRETEX WRAP IS REQUIRED AT EACH WATERSTOP CONNECTION, AROUND THE CIRCUMFERENCE OF THE WET WELL.

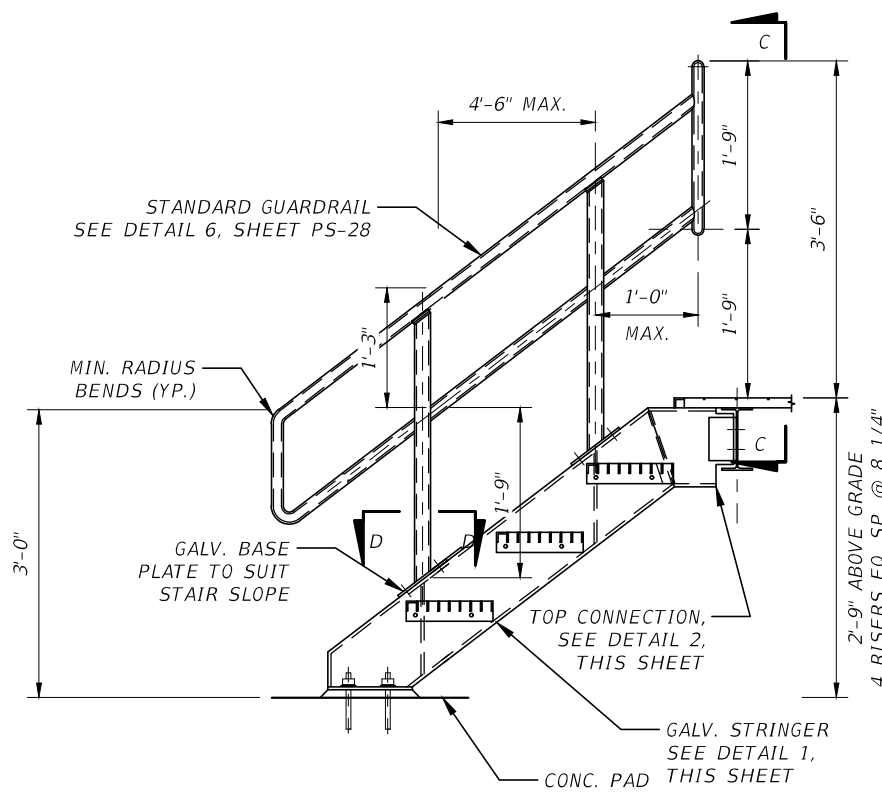


**8' DIAMETER WET WELL
PUMP STATION SECTION A-A**
SCALE: 1/4" = 1'-0"

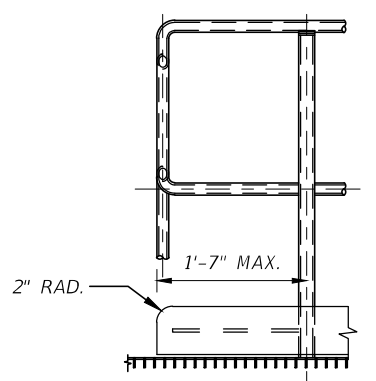
DATUM = NAVD88
NGVD29 = NAVD88 + 1.55'

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

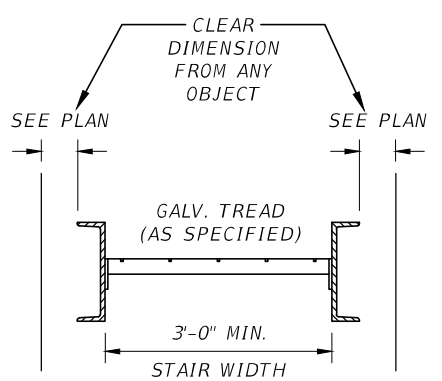
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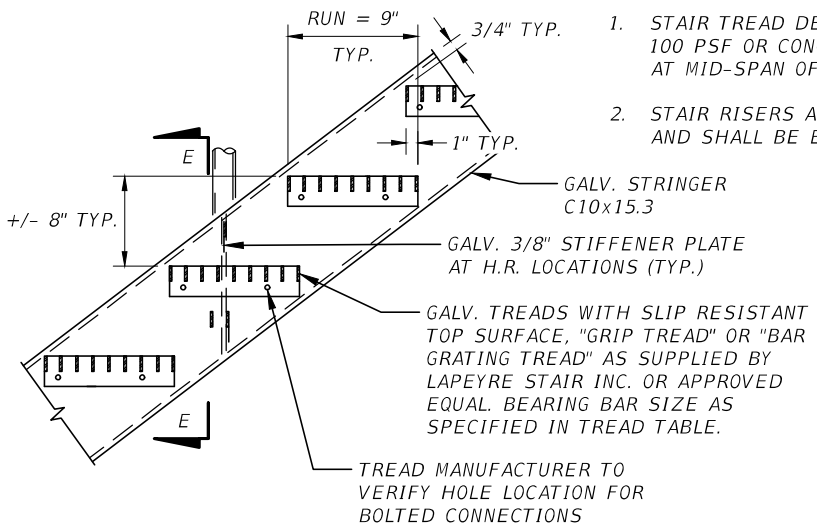
SECTION B-B
PLATFORM STEEL STAIRS
SCALE: NOT TO SCALE



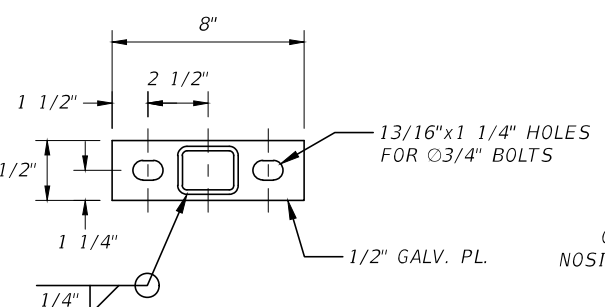
SECTION C-C
SCALE: NOT TO SCALE



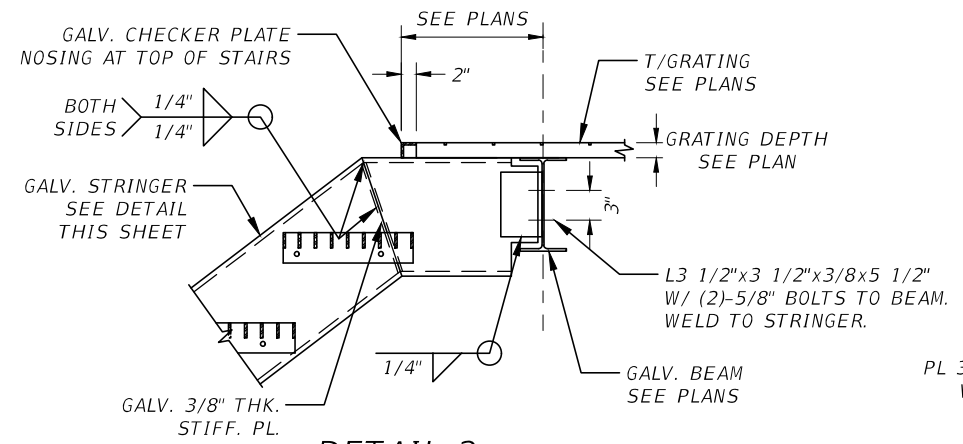
SECTION E-E
SCALE: NOT TO SCALE



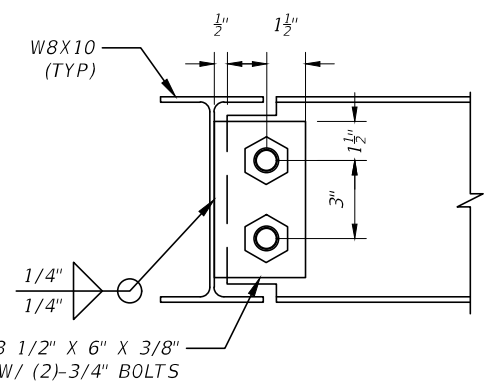
DETAIL 1
OPEN GALV. STAIR
SCALE: NOT TO SCALE



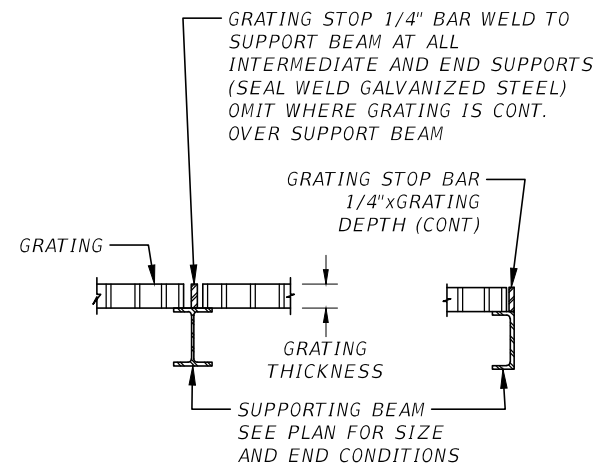
SECTION D-D
SCALE: NOT TO SCALE



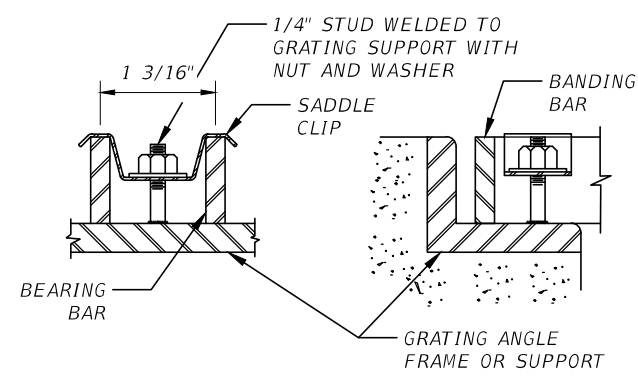
DETAIL 2
TOP CONNECTION TO STEEL
SCALE: NOT TO SCALE



DETAIL 28
CENTER BEAM CONNECTION TO EDGE BEAM
SCALE: NOT TO SCALE



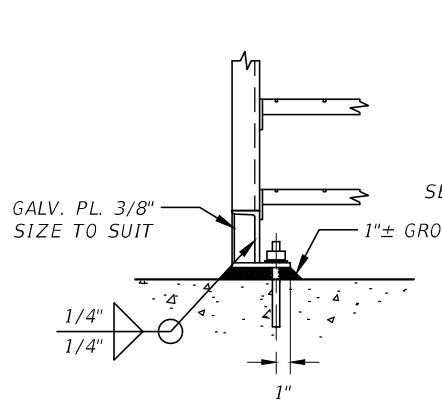
DETAIL 5
GRATING STOP
SCALE: NOT TO SCALE



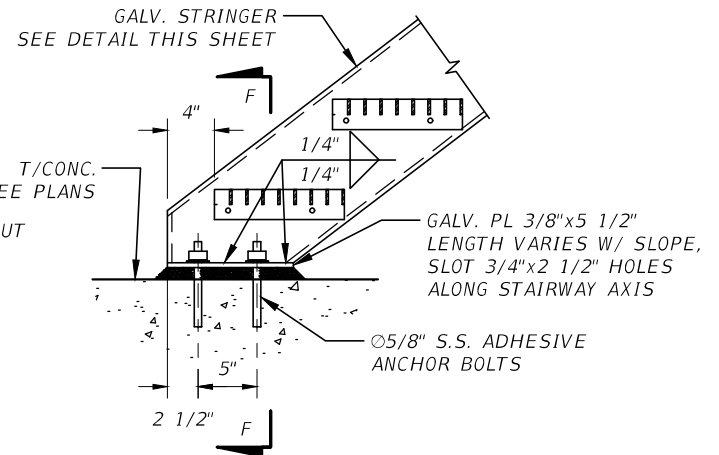
DETAIL 4
GRATING CLIP
SCALE: NOT TO SCALE

NOTES:

- UNLESS INDICATED OTHERWISE, ALL GRATING SHALL BE GALVANIZED.
- ALL MATERIAL TO BE GALVANIZED AFTER FABRICATION.
- ALL ENDS AND OPENINGS SHALL BE BANDED.
- GRATING SHALL BE 1-1/2"x3/16" 19-W-4 UNLESS NOTED OTHERWISE.
- PROVIDE A MINIMUM OF 4 CLIPS PER GRATING PANEL, APPROX. 4" FROM PANEL CORNERS. MAX. CLIP SPACING AT 36" OC.
- PROVIDE ANGLE FRAME OR SUPPORT ANGLES AT ALL SIDES OF OPENINGS (UNO).



SECTION F-F



DETAIL 3
STAIR CONNECTION
SCALE: NOT TO SCALE

NOTES:

- STAIR TREAD DESIGN LIVE LOAD: 100 PSF OR CONCENTRATED LOAD AT MID-SPAN OF 300 POUNDS.
- STAIR RISERS ARE 8"± TYPICAL AND SHALL BE EQUALLY SPACED.

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

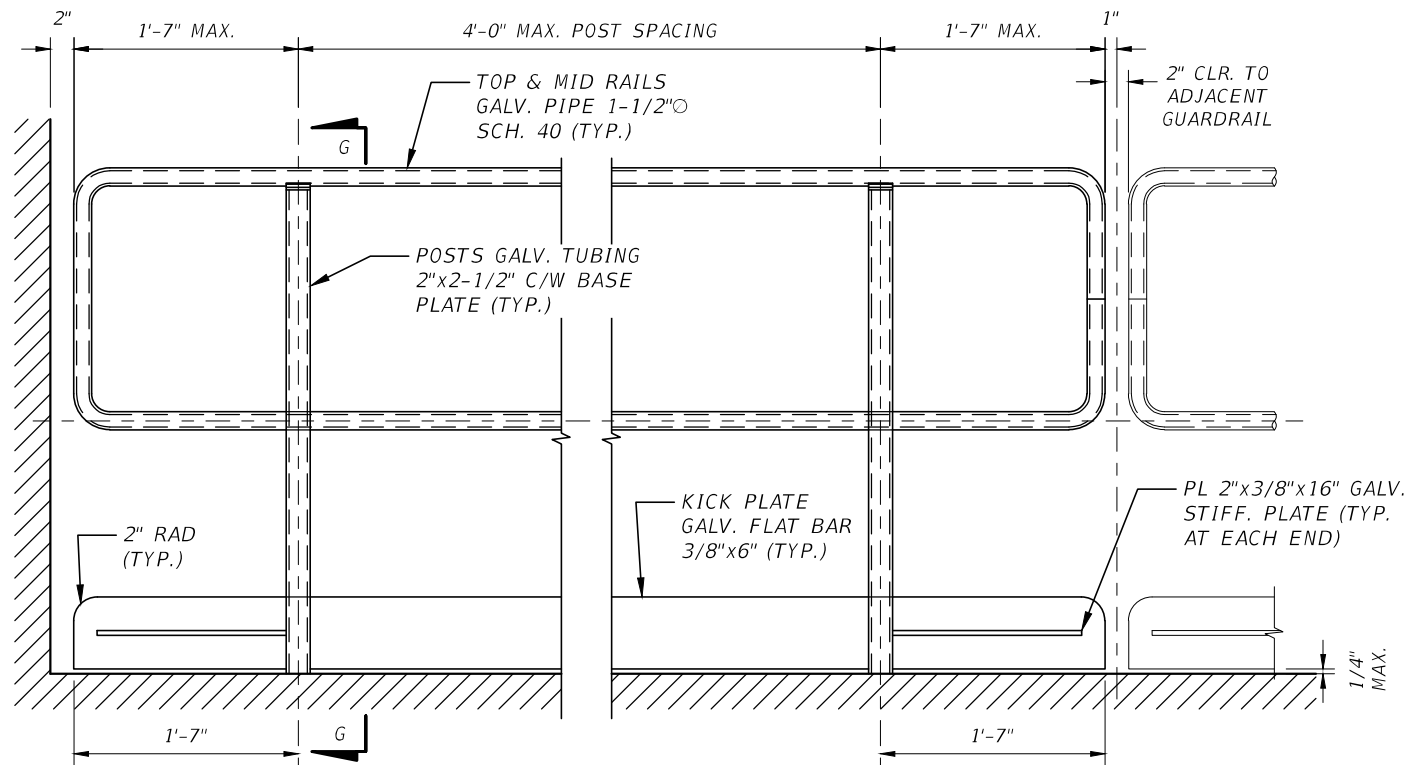
STANTEC CONSULTING SERVICES INC.
 BENAN ZAHAWI, P.E.
 P.E. License No. 94505
 901 Ponce de Leon Blvd., Suite 900
 Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
STRUCTURAL DETAILS - I

SHEET NO.
 PS-27

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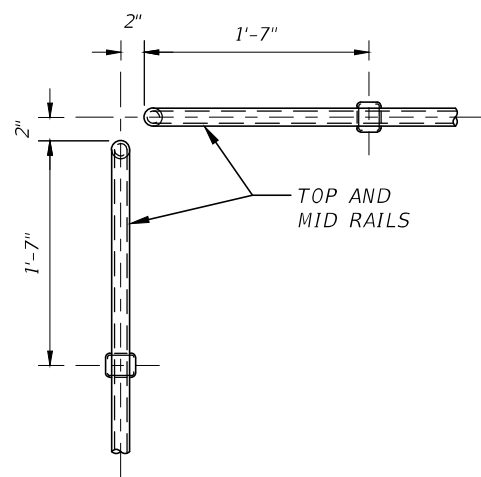


DETAIL 6
TYPICAL GUARDRAIL CONSTRUCTION

SCALE: NOT TO SCALE

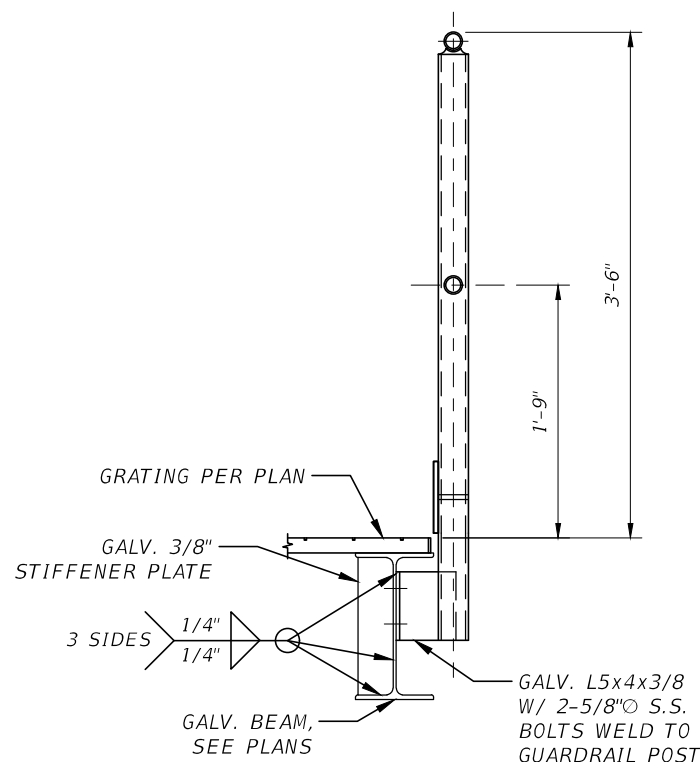
NOTES:

1. DETAILS SHOWN ARE MINIMUM REQUIREMENTS. DELEGATED ENGINEER SHALL PROVIDE SIGNED AND SEALED STRUCTURAL CALCULATIONS BY A FLORIDA LICENSED STRUCTURAL ENGINEER.



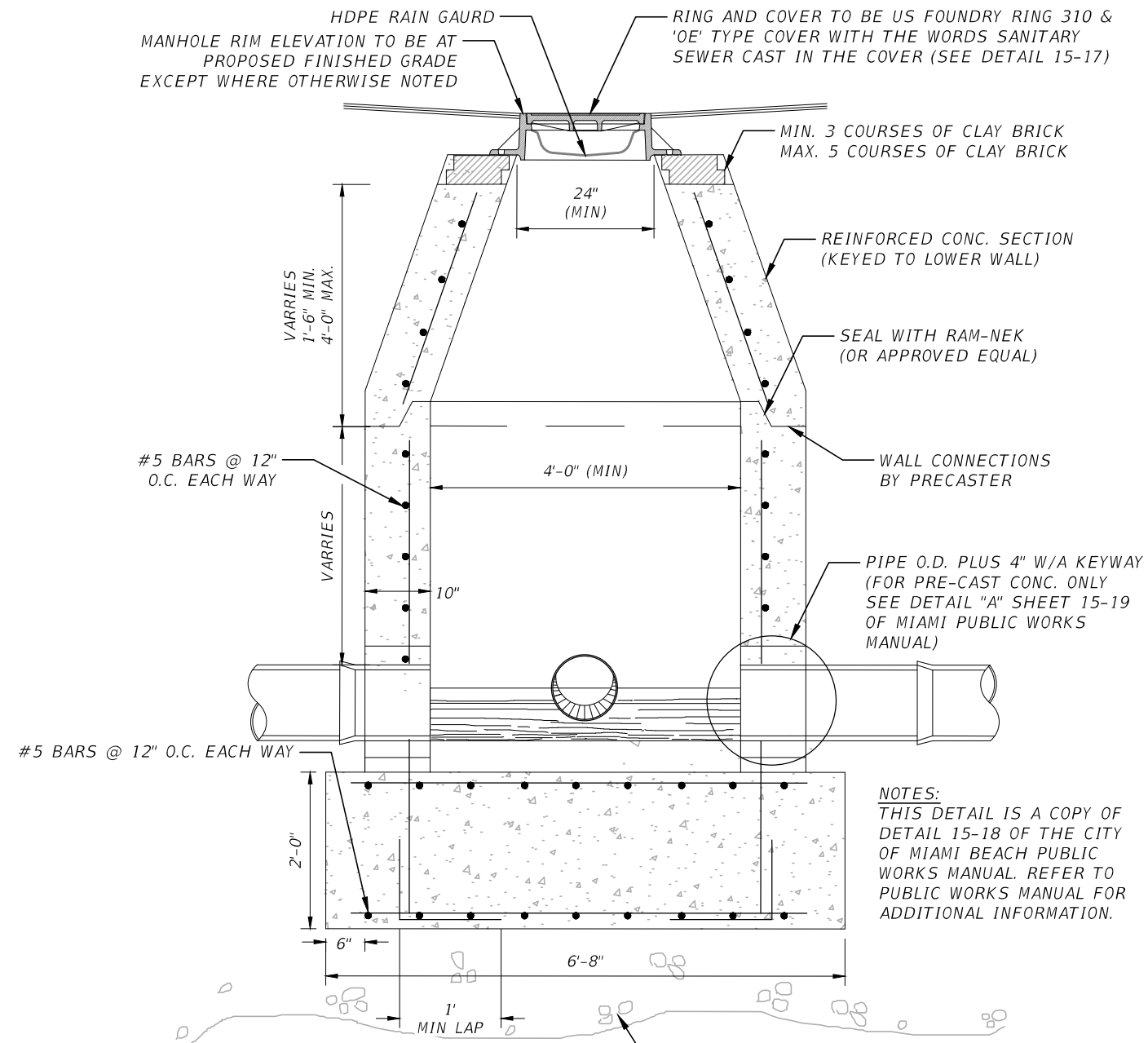
DETAIL 8
GUARDRAIL CORNER

SCALE: NOT TO SCALE



SECTION G-G
FIXED GUARDRAIL

SCALE: NOT TO SCALE



NOTES:

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478, SHALL BE TYPE II CEMENT AND SHALL MAINTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
2. REFER TO FDOT INDEX 200 FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
3. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. ALL REINFORCING STEEL SHALL BE FROM DOMESTIC MILLS AND SHALL HAVE THE MANUFACTURER'S MILL MARKING ROLLED INTO THE BAR WHICH SHALL INDICATE THE PRODUCER, SIZE, TYPE, AND GRADE. REBAR COVER PER ACI 350.
4. ALL OPENINGS SHALL BE SEALED WITH GROUT (MIAMI BEACH PUBLIC WORKS MANUAL).
5. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
6. SEE MIAMI BEACH PUBLIC WORKS MANUAL FOR INFLUENT/EFFLUENT ARRANGEMENT.
7. FIELD APPLY MINIMUM TWO (2) COATS (10 MIL THICKNESS, EACH) OF BITUMASTIC MATERIAL TO EXTERIOR SURFACE OF NEW MANHOLE.
8. CONCRETE TO BE SEAL COATED WITH 16 MIL THICKNESS APPROVED COATING. IF A FORCE MAIN DISCHARGES TO THE MANHOLE, EPOXY COATING SHALL BE USED. OTHERWISE, CEMENTITIOUS COATING SHALL BE USED.
9. MINIMUM STEEL SIZES/CONCRETE THICKNESS ARE DEPICTED ABOVE CONCRETE. THICKNESS AND REINFORCING SHALL BE DESIGNED BY A STATE OF FLORIDA ENGINEER. SIGNED AND SEALED CALCULATIONS MUST BE PROVIDED TO SUPPORT STRUCTURAL DESIGN. SIGNED AND SEALED BUOYANCY CALCULATIONS MUST ALSO BE PROVIDED.

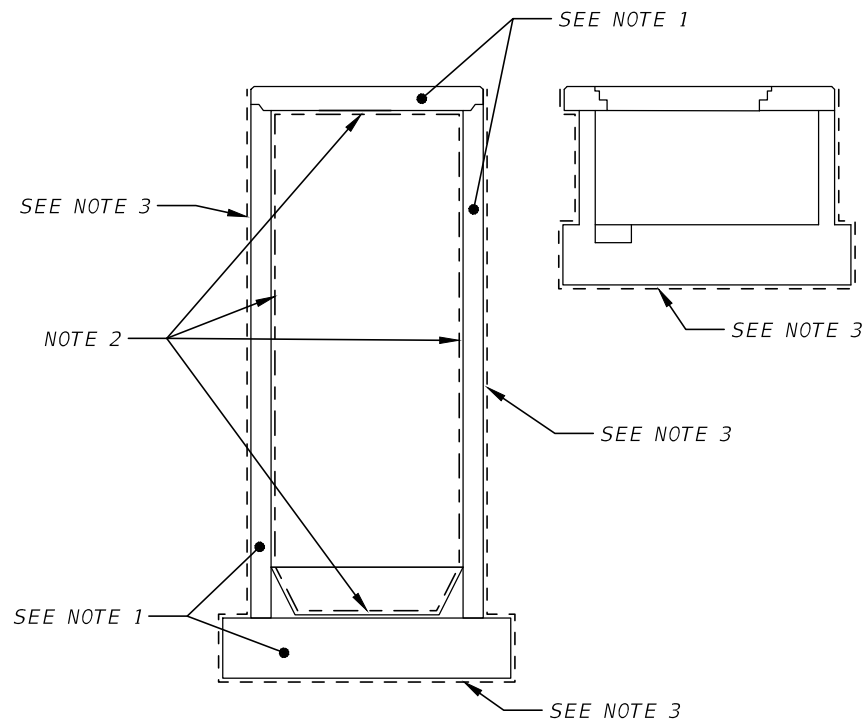
DETAIL 29

TERMINAL SANITARY SEWER MANHOLE

SCALE: NOT TO SCALE

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

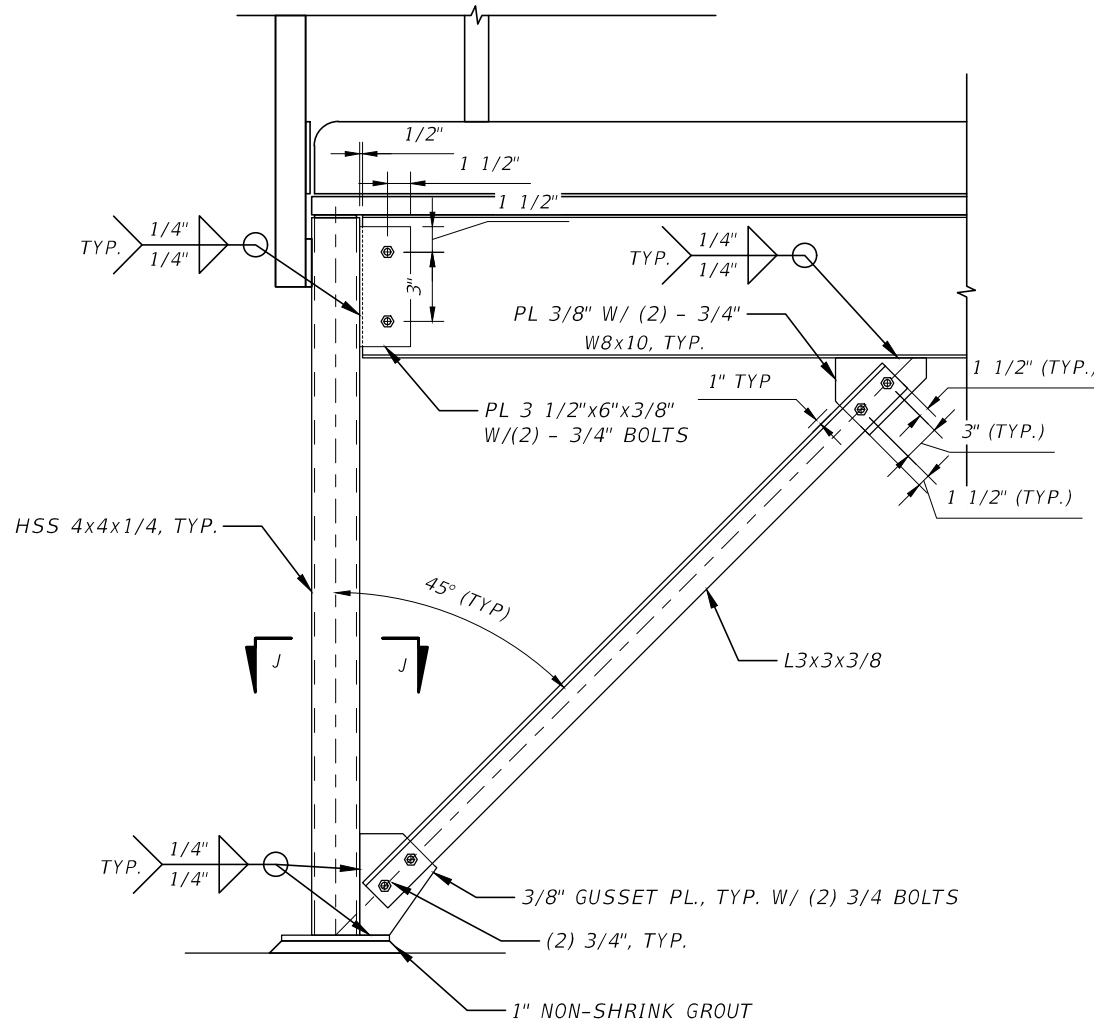
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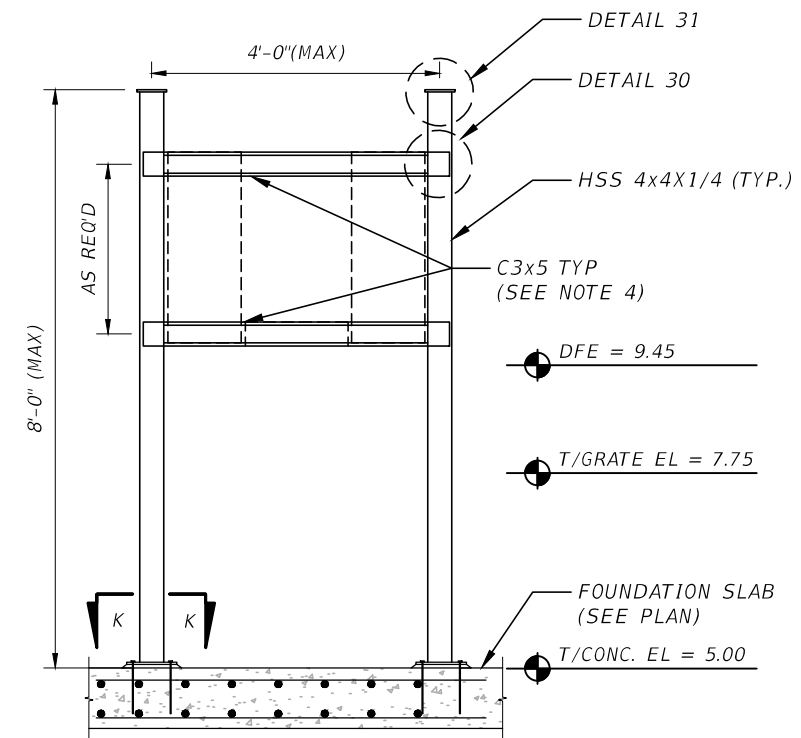
DETAIL 11
WET WELL ADMIXTURE
AND COATING
 SCALE: NOT TO SCALE

WETWELL ADMIXTURE
AND COATING NOTES:

1. CRYSTALLINE WATERPROOFING CONCRETE ADMIXTURE W/RED DYE BY XYPEX OR APPROVED EQUAL.
2. SEE SPECIFICATIONS FOR INTERIOR WET WELL LINER.
3. TWO COATS OF KOOPERS BITUMASTIC NO. 300M, DRY THICKNESS OF 8 MILS PER COAT.



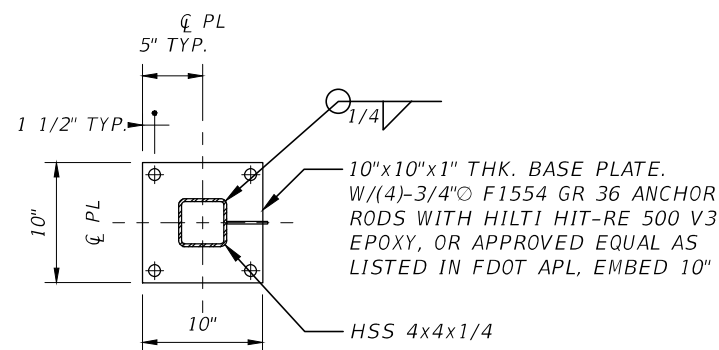
DETAIL 10
CONNECTIONS AND BRACING
 SCALE: NOT TO SCALE



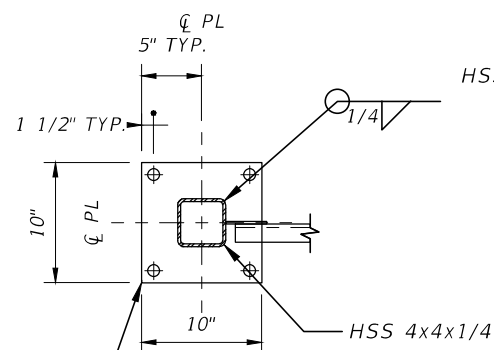
NOTES:

1. HOT-DIP GALVANIZE ALL STEEL
2. BOTTOM OF ELECTRICAL EQUIPMENT SHALL BE ABOVE THE DFE
3. COORDINATE LOCATIONS AND ELEVATIONS OF FRAME MOUNTED EQUIPMENT WITH ELECTRICAL DRAWINGS AND APPROVED EQUIPMENT SHOP DRAWINGS.
4. SPACING AND NUMBER OF CHANNEL SUPPORTS TO BE COORDINATED AS NEEDED WITH APPROVED EQUIPMENT SHOP DRAWINGS. COORDINATE MOUNTING HARDWARE, SUCH AS UNISTRUT, BOLTS, CLAMPS, ETC. AS REQUIRED FOR THE TYPE AND SIZE OF EQUIPMENT INSTALLED.

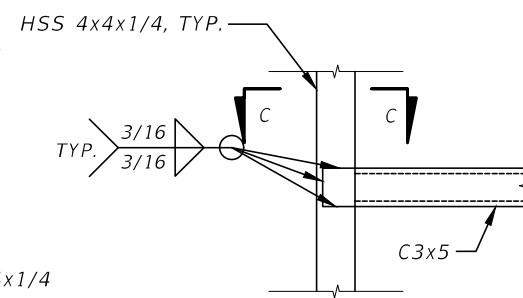
DETAIL 12
ELECTRICAL EQUIPMENT SUPPORT FRAMING
 SCALE: 3/8" = 1'



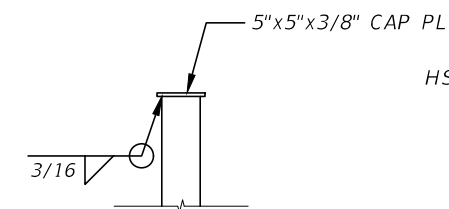
SECTION K-K
PLATFORM BASEPLATE
 SCALE: NOT TO SCALE



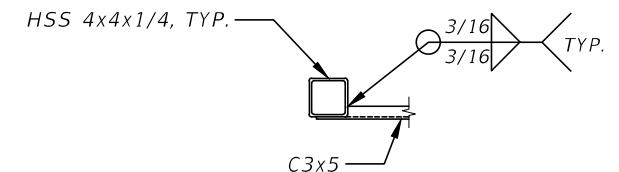
SECTION J-J
PLATFORM BASEPLATE
 SCALE: NOT TO SCALE



DETAIL 30
 SCALE: NOT TO SCALE



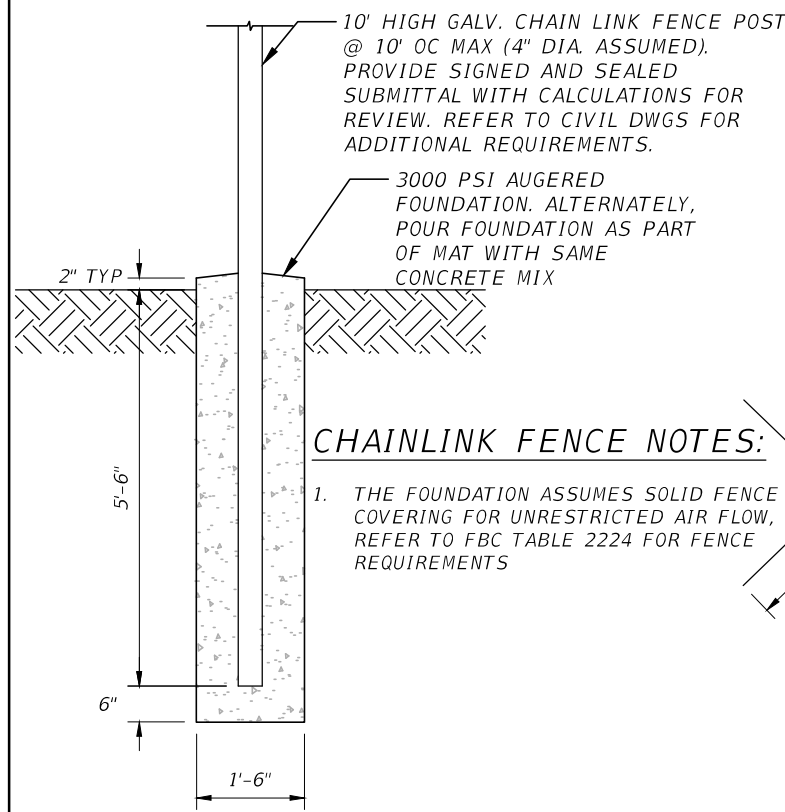
DETAIL 31
 SCALE: NOT TO SCALE



SECTION C
 SCALE: NOT TO SCALE

DATUM = NAVD88
 NGVD29 = NAVD88 + 1.55'

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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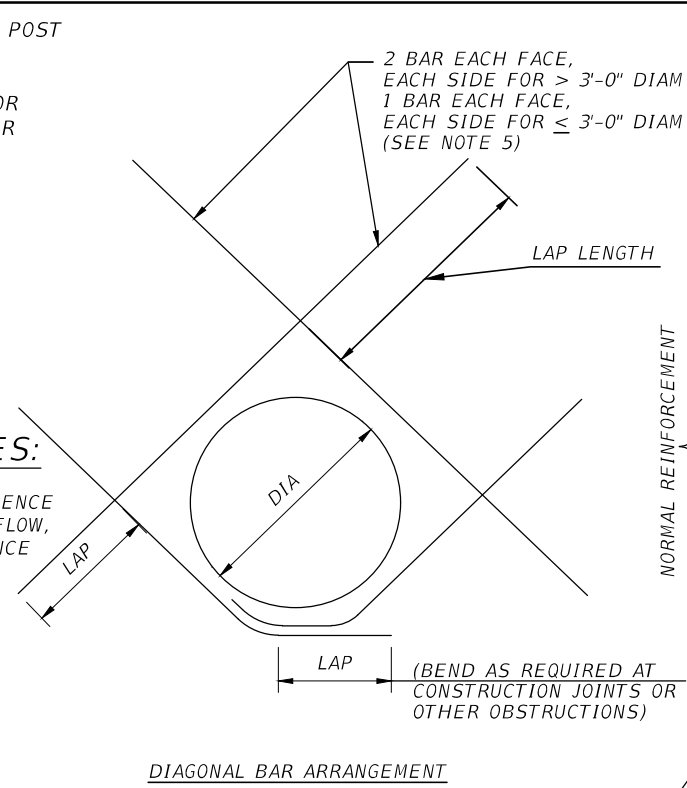
CHAINLINK FENCE NOTES:

1. THE FOUNDATION ASSUMES SOLID FENCE COVERING FOR UNRESTRICTED AIR FLOW, REFER TO FBC TABLE 2224 FOR FENCE REQUIREMENTS

DETAIL 13

CHAINLINK FENCE FOUNDATION

SCALE: NOT TO SCALE



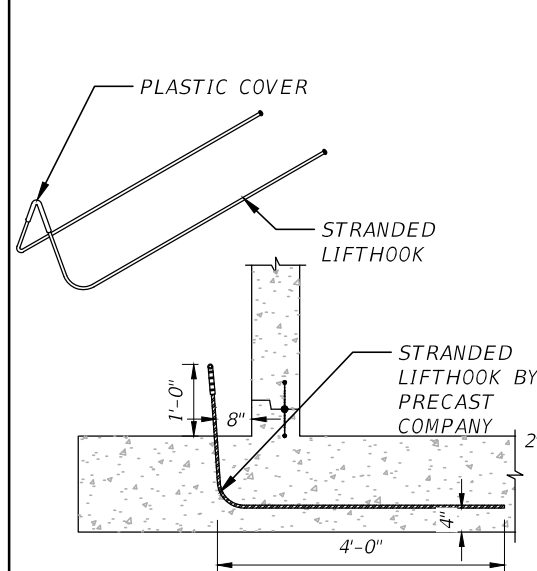
DETAIL 14

ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS

SCALE: NOT TO SCALE

NOTES:

1. THIS DETAIL TO BE USED AT ALL CIRCULAR OPENINGS EXCEPT WHEN OTHER DETAILING IS INDICATED ON THE DRAWINGS.
2. CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING.
3. CUT NORMAL REINFORCEMENT AT OPENINGS:
 - A. As_1 AND As_2 = 1/2 AREA OF TOTAL CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
4. DIAGONAL AND ADDITIONAL BARS As_1 AND As_2 TO BE PLACED.
 - A. AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
 - B. AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
5. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.
6. INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2X WALL/ SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS.
7. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE OF THE OPENING MAY BE OMITTED.
8. WHEN THE LAP LENGTH OF THE ADDITIONAL BARS CANNOT BE ACHIEVED DUE TO AN ADJACENT WALL OR SLAB, ADDITIONAL CORNER BARS OR SLAB DOWELS, REPECTIVELY, MATCHING THE CUT BARS, ARE TO BE INCLUDED IN THE ADJACENT WALL OR SLAB TO LAP WITH THE ADDITIONAL BARS.

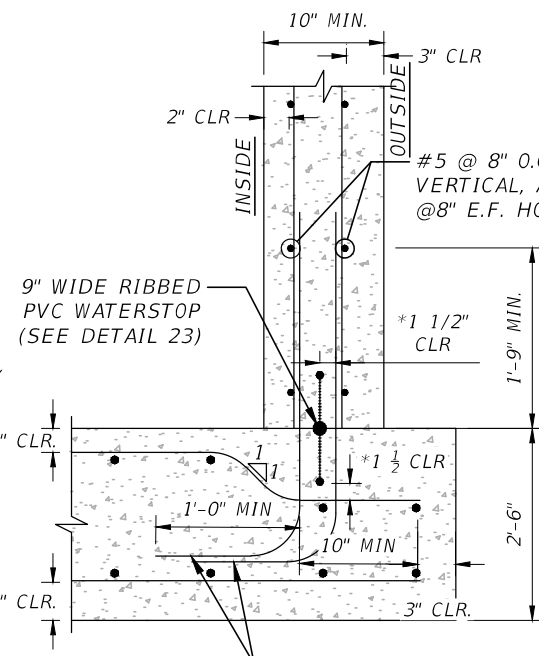


NOTES:

1. CONTRACTOR SHALL PROVIDE SIGNED & SEALED CALCULATIONS FOR LIFTHOOK, BY A FLORIDA STRUCTURAL PROFESSIONAL ENGINEER.
2. THE DIAMETER AND NUMBER OF STRAND MUST BE PROVIDED BY THE PRECAST PLANT WITH A SAFTEY FACTOR OF 3.

DETAIL 15
LIFTING HOOK

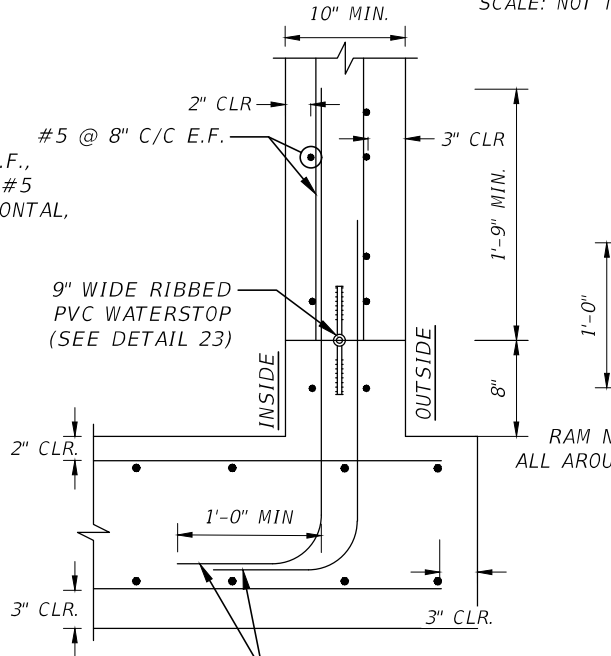
SCALE: NOT TO SCALE



DETAIL 16

WET WELL BOTTOM SLAB TO WALL JOINT FOR A CAST-IN-PLACE STRUCTURE

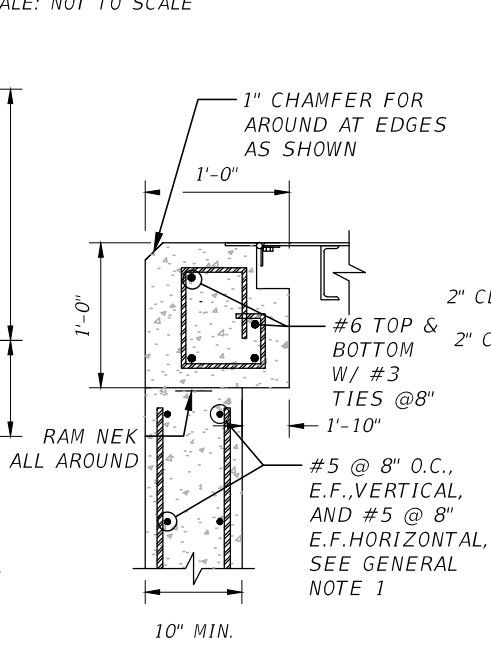
SCALE: NOT TO SCALE



DETAIL 16A

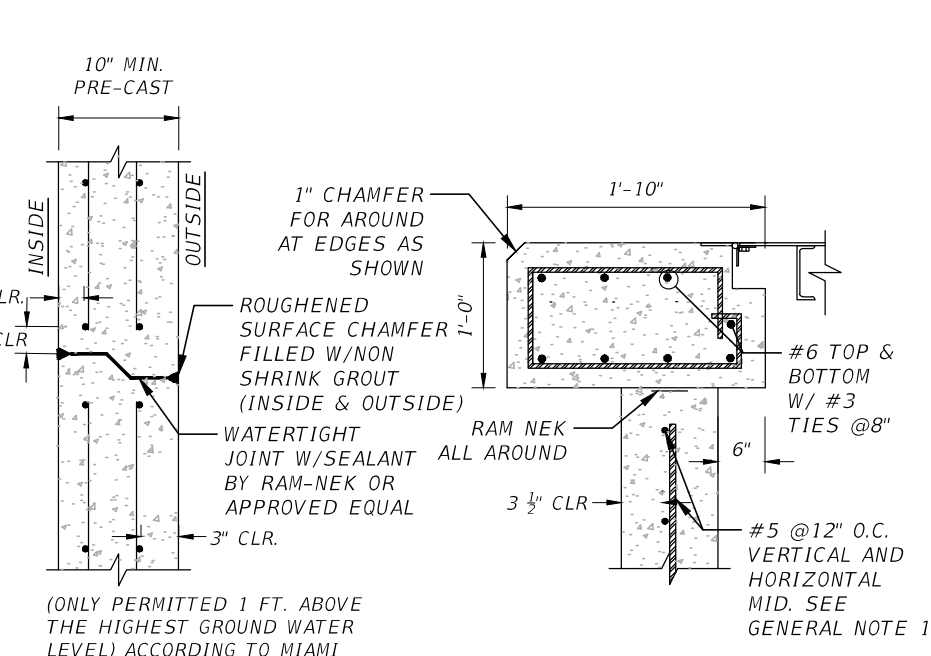
BOTTOM SLAB TO WALL JOINT (OPTIONAL)

SCALE: NOT TO SCALE



DETAIL 17
WET WELL TOP SLAB DETAIL

SCALE: NOT TO SCALE



DETAIL 18
WALL JOINT

SCALE: NOT TO SCALE

DETAIL 19
VALVE VAULT TOP SLAB DETAIL (ACCESS HATCH)

SCALE: NOT TO SCALE

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 P.E. License No. 94505
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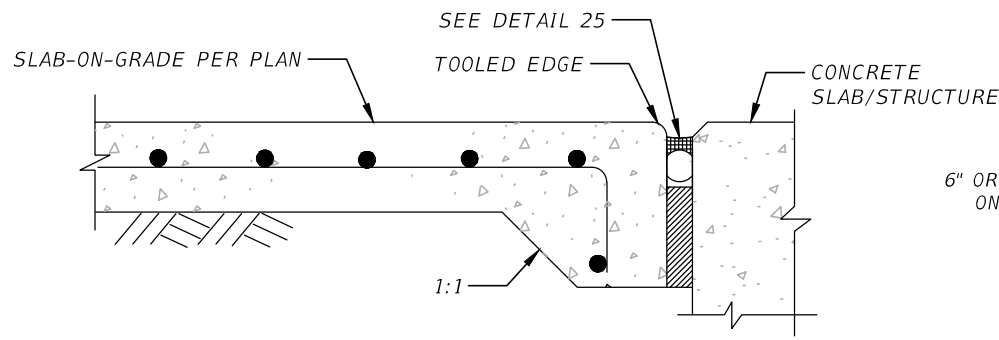
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SEWER PS 25

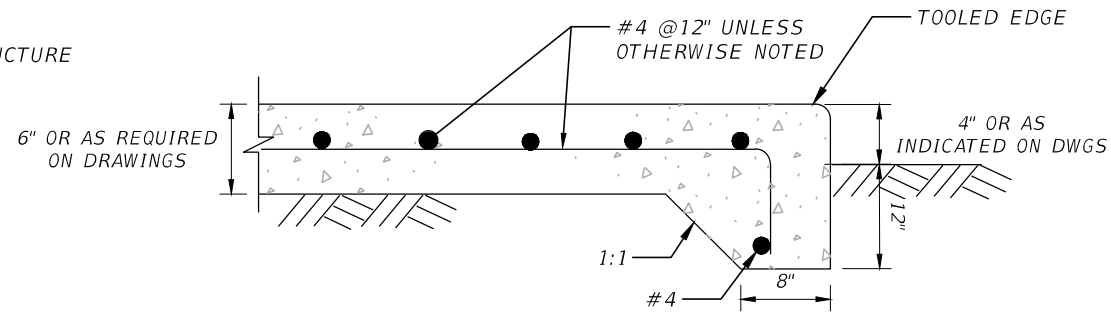
STRUCTURAL DETAILS - IV

SHEET NO.
PS-30

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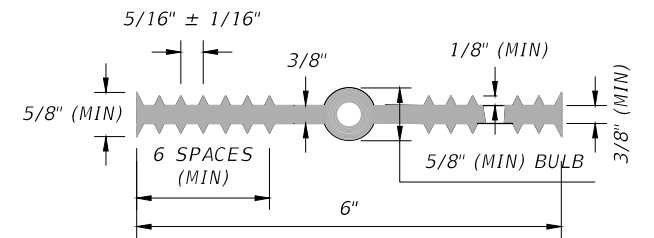


DETAIL 20
ISOLATION JOINT AT STRUCTURES
SCALE: NOT TO SCALE

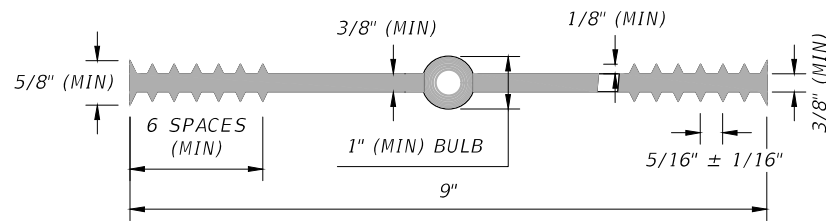


NOTES:
USE 2 MATS OF #5 @12" EW WF FOR SLABS 10" AND THICKER

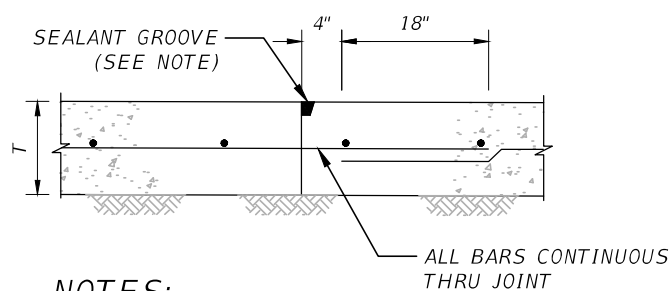
DETAIL 21
SLAB-ON-GRADE
SCALE: NOT TO SCALE



DETAIL 22
6" CENTER-BULB WATERSTOP
SCALE: NOT TO SCALE

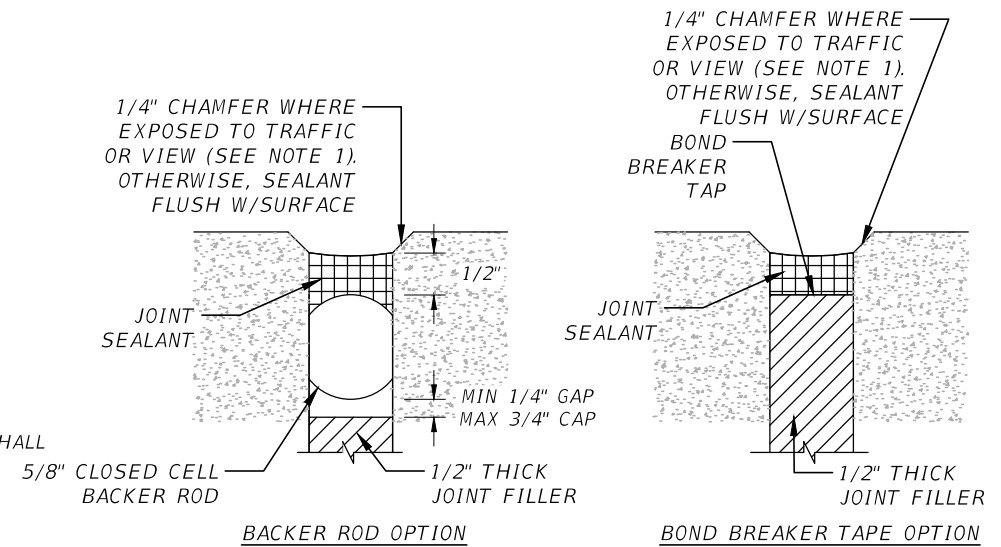


DETAIL 23
9" CENTER-BULB WATERSTOP
SCALE: NOT TO SCALE



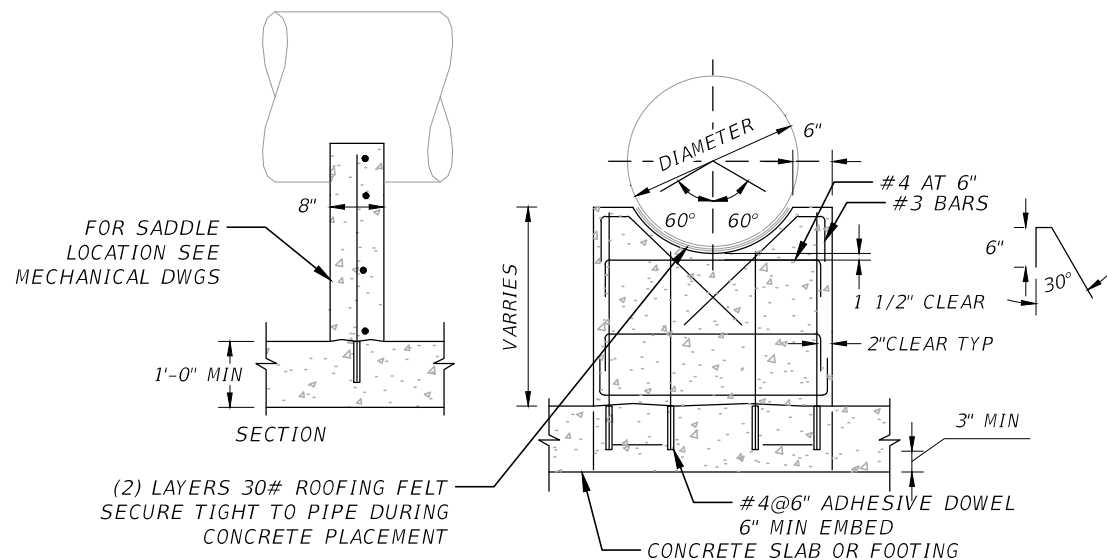
NOTES:
DEPTH OF SEALANT IN CONTROL JOINTS TO BE T/3. SEALANT SHALL BE SIKAFLEX 2C NON SAG OR APPROVED EQUAL.

DETAIL 24
CONSTRUCTION/CONTRACTION JOINT
SCALE: NOT TO SCALE

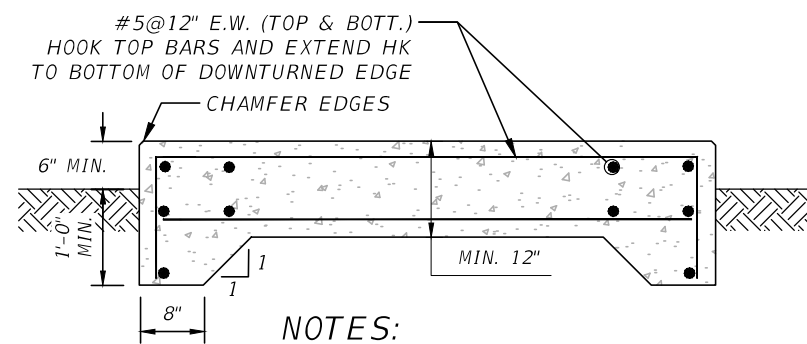


NOTES:
1. USE BACKER ROD OPTION OR BOND BREAKER TAPE OPTION CONSISTENTLY ON THE PROJECT.
2. CHAMFER MAY BE GROUND OR TOOLED.

DETAIL 25
SEALANT AT ISOLATION JOINT
SCALE: NOT TO SCALE



DETAIL 26
CONCRETE PIPE SADDLE
SCALE: NOT TO SCALE



DETAIL 27
EQUIPMENT PAD DETAIL
SCALE: NOT TO SCALE

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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STRUCTURAL DETAILS - V

SHEET NO.
PS-31

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LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

- 1.1 SCOPE
A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION, AND RELATED WORK NECESSARY TO COMPLETE THE LANDSCAPE WORK IN ACCORDANCE WITH THE INTENT OF THE LANDSCAPE PLANS, SCHEDULES AND THESE SPECIFICATIONS. THE EXTENT OF WORK IS SHOWN ON THE DRAWINGS WHICH ARE A PART OF THIS DOCUMENT.
- 1.2 CONTRACTOR QUALIFICATIONS
A. LANDSCAPE INSTALLATION WORK TO BE PERFORMED BY A CONTRACTOR CERTIFIED BY THE FLORIDA NURSERYMEN, GROWERS AND LANDSCAPE ASSOCIATION (FNGLA) AS A CERTIFIED LANDSCAPE CONTRACTOR. ANY PRUNING TO BE SUPERVISED BY AN ARBORIST, CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) AND LICENSED IN BROWARD COUNTY.
- 1.3 INVESTIGATION OF UTILITIES
A. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE EXISTING UNDERGROUND UTILITIES. CHECK WITH ALL UTILITY COMPANIES AND SUNSHINE STATE, CALL (811).
- 1.4 SUBSTITUTIONS
A. ONLY MATERIALS SPECIFIED WILL BE ACCEPTED, UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT OR ENGINEER IN ADVANCE.
- 1.5 PLANT SIZES
A. ALL PLANTS TO BE INSTALLED AROUND THE PS SITE SHALL BE FULLY GROWN.
- 1.6 PLANT QUALITY
A. ALL PLANT MATERIAL SHALL BE EQUAL TO OR BETTER THAN FLORIDA NO. 1 AS CLASSIFIED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" BY THE DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE. THEY SHALL HAVE A GROWTH HABIT THAT IS NORMAL FOR THE SPECIES; HEALTHY, VIGOROUS, FREE FROM INSECTS, DISEASE AND INJURY

B. THE OWNER OR LANDSCAPE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL WHICH DOES NOT CONFORM TO THE INTENT OF THE WRITTEN SPECIFICATIONS OR DESIGN.

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT OR ENGINEER IS DONE BEFORE PLANTING.
- 1.7 PLANT QUANTITY
A. THE PLANT QUANTITIES SHOWN ON THE PLANT LIST ARE TO BE USED ONLY AS AN AID TO BIDDERS. IN THE CASE OF DISCREPANCY BETWEEN THE PLANT LIST AND THE PLAN, THE QUANTITY ON THE PLAN SHALL OVERRIDE THE PLANT LIST.
- 1.8 UNIT PRICES
A. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER AND THE LANDSCAPE ARCHITECT OR ENGINEER, A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT HIS DISCRETION, ADD TO OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED TO AND ACCEPTED BY THE OWNER.
- 1.9 SUBMITTALS
A. FERTILIZER: THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT OR ENGINEER DOCUMENTATION THAT ALL THE FERTILIZER USED FOR THE PROJECT IS OF THE ANALYSIS SPECIFIED AND PLACED AT THE RATES SPECIFIED IN SECTION 2.2 FERTILIZER.

B. PLANTING SOIL: THE CONTRACTOR SHALL SUBMIT A SAMPLE OF THE PLANTING SOIL (APPROXIMATELY 1 CU. FT.) FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR ENGINEER PRIOR TO DELIVERY TO THE SITE.
- 1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC
A. FOLLOW PROCEDURES IN FDOT INDEX 600 FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.

B. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL REMOVE DEBRIS AND SHALL BARRICADE THE UN-FILLED HOLES IN A MANNER APPROPRIATE IN THE PATH OF PEDESTRIANS AND MOTORISTS.

C. UPON COMPLETION OF THE WORK OR ANY MAJOR PORTION OF THE WORK OR AS DIRECTED BY THE LANDSCAPE ARCHITECT OR ENGINEER, ALL DEBRIS AND SURPLUS MATERIAL FROM HIS WORK SHALL BE REMOVED FROM THE JOB SITE.

- 1.11 MAINTENANCE PRIOR TO ACCEPTANCE
A. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE PLANTINGS UNTIL THEY ARE ACCEPTED UNDER THE PROVISIONS OF 1.12 "ACCEPTANCE OF INSTALLATION".
1. PLANTS: BEGIN MAINTENANCE IMMEDIATELY FOLLOWING THE FINAL PLANT INSTALLATION OPERATION FOR EACH PLANT AND CONTINUE UNTIL ALL PLANT INSTALLATION IS COMPLETE AND ACCEPTED. MAINTENANCE SHALL INCLUDE WATERING ALL PLANTS, WEEDING, MULCHING, PEST AND DISEASE CONTROL, TIGHTENING AND REPAIRING OF GUYS, REPAIR OF BRACES, REMOVAL OF DEAD GROWTH, RESETTING OF PLANTS TO PROPER GRADE OR UP-RIGHT POSITION, RESTORATION OF PLANT SAUCER, LITTER PICK-UP IN PLANT BEDS AND OTHER NECESSARY OPERATIONS TO ASSURE SPECIFIED MINIMUM GRADE OF FLORIDA NO.
 2. TURF AREAS: BEGIN MAINTENANCE OF TURF IMMEDIATELY FOLLOWING THE PLACEMENT OF SOD AND CONTINUE UNTIL SOD INSTALLATION IS COMPLETE AND ACCEPTED. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO, WATERING, LEVELING, MOWING, WEED AND PEST CONTROL, FUNGUS AND DISEASE CONTROL AND OTHER NECESSARY OPERATIONS AS DETERMINED BY THE LANDSCAPE ARCHITECT, ENGINEER AND GOOD NURSERY PRACTICE.
 3. RE-SETTING OR STRAIGHTENING TREES AND PALMS: THE CONTRACTOR SHALL RE-SET AND/OR STRAIGHTEN TREES AND PALMS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER UNLESS CAUSED BY SUSTAINED WINDS OF 75 MPH OR MORE. THEN, THE COSTS OF THE OPERATIONS MAY BE CHARGED TO THE OWNER. RE-SET TREES WITHIN 48 HOURS.
- 1.12 ACCEPTANCE OF INSTALLATION
A. INSPECTION: INSPECTION OF THE WORK, TO DETERMINE COMPLETION OF CONTRACT WORK, EXCLUSIVE OF THE POSSIBLE REPLACEMENT OF PLANTS AND TURF, WILL BE MADE BY THE LANDSCAPE ARCHITECT AND ENGINEER AT THE CONCLUSION OF THE MAINTENANCE PERIOD. WRITTEN NOTICE REQUESTING SUCH AN INSPECTION AND SUBMITTED BY THE CONTRACTOR AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED DATE.
- 1.13 GUARANTEE
A. GUARANTEE ALL PLANTS FOR A PERIOD OF ONE YEAR (CCD). GUARANTEE SHALL COMMENCE FROM THE DATE OF WRITTEN ACCEPTANCE. PLANT MATERIAL WHICH IS ON THE SITE AND SCHEDULED TO BE RELOCATED IS NOT COVERED BY THE GUARANTEE EXCEPT IN THE CASE OF CONTRACTOR'S NEGLIGENCE OR WORK THAT HAS BEEN DONE IN AN UNWORKMAN-LIKE MANNER. THE CONTRACTOR IS NOT RESPONSIBLE FOR LOSS DUE TO ACTS OF GOD, (I.E.) SUSTAINED WINDS OF 75 MPH OR MORE, FLOODS, FROST, LIGHTNING, VANDALISM OR THEFT.
- 1.14 REPLACEMENT
A. REPLACEMENT SHALL BE MADE DURING THE GUARANTEE PERIOD AS DIRECTED BY THE LANDSCAPE ARCHITECT AND ENGINEER WITHIN TEN (10) DAYS FROM TIME OF NOTIFICATION. FOR ALL REPLACEMENT PLANT MATERIAL, THE GUARANTEE PERIOD SHALL EXTEND FOR AN ADDITIONAL FORTY-FIVE (45) DAYS BEYOND THE ORIGINAL GUARANTEE PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE WATER TO THE REPLACEMENT PLANTS IN SUFFICIENT QUANTITY TO AID IN THEIR ESTABLISHMENT. AT THE END OF THE GUARANTEE PERIOD, INSPECTION WILL BE MADE BY THE LANDSCAPE ARCHITECT AND ENGINEER, UPON WRITTEN NOTICE REQUESTING SUCH INSPECTION AND SUBMITTED BY THE CONTRACTOR AT LEAST FIVE (5) DAYS BEFORE THE ANTICIPATED DATE. REPLACEMENT PLANTS MUST MEET THE REQUIREMENTS OF FLORIDA NO. 1 AT TIME OF INSPECTION. REMOVE FROM THE SITE ALL PLANTS THAT ARE DEAD OR IN A STATE OF UNSATISFACTORY GROWTH, AS DETERMINED BY THE LANDSCAPE ARCHITECT AND ENGINEER. REPLACE THESE AND ANY PLANTS MISSING DUE TO THE CONTRACTOR'S NEGLIGENCE AS SOON AS CONDITIONS PERMIT.
1. MATERIALS AND OPERATIONS: ALL REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS INDICATED ON THE PLANT LIST. THE CONTRACTOR SHALL SUPPLY AND PLANT THE PLANTS AS SPECIFIED UNDER PLANTING OPERATIONS.

PART 2 - MATERIALS

- 2.1 PLANTING SOIL
A. PLANTING SOIL FOR TREES, SHRUBS AND GROUND COVERS SHALL BE OF THE COMPOSITION NOTED ON THE PLANS, MEASURED BY VOLUME.

B. SOIL TESTING SHALL BE PERFORMED IN ALL PLANTING AREAS PRIOR TO CONSTRUCTION WITH RESULTS SUBMITTED TO LANDSCAPE ARCHITECT. SAMPLES SHALL BE TAKEN FROM EACH DIFFERENT PLANTING AREA, FROM SOIL WHICH IS TO REMAIN. SOIL AMENDMENTS SHALL BE ADDED AS NECESSARY TO MEET THE FOLLOWING PARAMETERS:
- | | |
|----------------|------------|
| PH RANGE | 6.5-7.5 |
| ORGANIC MATTER | > 1.5% |
| MAGNESIUM | 100+ UNITS |
| PHOSPHORUS | 150+ UNITS |
| POTASSIUM | 120+ UNITS |
- SOLUBLE SALTS/CONDUCTIVITY NOT TO EXCEED 900 PPM/0.9 MMHOS/CM (IN SOIL) AFTER AMENDMENTS HAVE BEEN ADDED, RESUBMIT RESULTS TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
- C. SOIL FOR SODDED AREAS: SHALL BE COARSE LAWN SAND.
- 2.2 FERTILIZER
A. FERTILIZER FOR TREES, PALMS, SHRUBS, AND GROUNDCOVERS SHALL BE AS FOLLOWS: LESCO PALM SPECIAL 13-3-13 OR EQUAL, SULFUR COATED WITH IRON AND OTHER MINOR ELEMENTS AND MAXIMUM OF 2% CHLORINE, OR BRAND WITH EQUAL ANALYSIS. THE FERTILIZER SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING AND SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED CONTAINERS, BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS. FERTILIZER FOR SOD AND SEEDED AREAS SHALL BE 8-6-8, 50% ORGANICALLY DERIVED NITROGEN, OR EQUAL.
- 2.3 WATER
A. THE CONTRACTOR SHALL PROVIDE POTABLE WATER ON SITE, AVAILABLE FROM THE START OF PLANTING. THE CONTRACTOR IS RESPONSIBLE TO ASCERTAIN THE LOCATION AND ACCESSIBILITY OF THE WATER SOURCE. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE MEANS OF DISTRIBUTION (I.E. WATER TRUCK, HOSES, ETC.) FOR DISTRIBUTION OF WATER TO THE PLANTING AREAS.
- 2.4 MULCH
A. MULCH SHALL BE SHREDDED MELALEUCA MULCH (FLORIMULCH) AS MANUFACTURED BY FORESTRY RESOURCES, INC., OR EQUAL.
- 2.5 ROOT BARRIER MATERIAL
A. ROOT BARRIER MATERIAL SHALL BE 24" DEEP POLYPROPOLYLENE PANELS BY DEEPROOT OR APPROVED EQUAL.

B. INSTALL PER DETAILS IN THE PLANS.

PART 3 - INSTALLATION PROCEDURES

- 3.1 LAYOUT
A. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO EXCAVATION.
- 3.2 HERBICIDE TREATMENT
IN ALL AREAS INFECTED WITH WEED AND/OR GRASS GROWTH, A SYSTEMIC HERBICIDE, SUCH AS ROUNDUP, SHALL BE APPLIED PER MANUFACTURER'S RATES. WHEN IT HAS BEEN ESTABLISHED WHERE WORK WILL BE DONE, THE SYSTEMIC HERBICIDE SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S LABELING TO KILL ALL NOXIOUS GROWTH. CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW MORE THAN ONE APPLICATION TO OBTAIN AT LEAST 95% KILL OF UNDESIRABLE GROWTH. IF NECESSARY, CONTRACTOR SHALL CONDUCT A TEST TO ESTABLISH SUITABILITY OF PRODUCT AND APPLICATOR TO BE USED ON THIS PROJECT, PRIOR TO EXECUTION OF THE FULL APPLICATION.
- 3.3 PLANT PIT EXCAVATION AND BACKFILLING
A. TREES: SEE THE PLANTING AND BRACING DETAILS AND NOTES.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

B. ALL PLANTING HOLES SHALL BE HAND DUG WHERE MACHINE DUG HOLES MAY ADVERSELY AFFECT UTILITIES OR IMPROVEMENTS.

C. SHRUBS AND GROUND COVER: SHRUBS AND GROUND COVER SHALL BE PLANTED IN A SOIL BED AS DESCRIBED IN THE NOTES AND DETAILS. SPACE SHRUBS AND PROVIDE SETBACK FROM CURB AND PAVEMENTS AS SHOWN IN THE PLANS.

D. WATERING OF FIELD-GROWN PLANTS: THOROUGHLY PUDDLE IN WATER TO REMOVE ANY AIR POCKETS IN THE PLANT HOLE.

3.4 WATERING

A. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE WATER FOR ALL NEW PLANTS AND TRANSPLANTS AND MEANS OF DISTRIBUTION (I.E. HAND WATERING OR WATER TRUCK) DURING THE MAINTENANCE PERIOD AND EXTENDING INTO THE PERIOD AFTER ACCEPTANCE UNTIL THE FULL SCHEDULE AS LISTED BELOW IS COMPLETE. WATER FOR TREES AND OTHER LARGE FIELD GROWN PLANTS SHALL BE SUPPLEMENTED BY HAND OR WATER TRUCK, IN ADDITION TO THE IRRIGATION SYSTEM, (IF ONE IS PROVIDED). CONTRACTOR CAN ADJUST WATERING SCHEDULE DURING HEAVY RAIN SEASON UPON APPROVAL OF THE LANDSCAPE ARCHITECT.

AMOUNT OF WATER PER APPLICATION
 FOR TREES UP TO 5 INCH CALIPER - 5 GALLONS
 FROM 5 TO 8 INCH CALIPER - 25 GALLONS
 9 INCH AND UP CALIPER - 50 GALLONS
 FREQUENCY OF WATER
 DAILY FOR THE FIRST WEEK
 3 TIMES PER WEEK FOR WEEKS 2 - 5
 2 TIMES PER WEEK FOR WEEKS 6 - 8
 1 TIME PER WEEK FOR WEEKS 9 - 12

B. WATER IN PLANTS BY THOROUGHLY SOAKING OF THE ENTIRE ROOT BALL IMMEDIATELY AFTER PLANTING. FOR LARGE TREES AND SHRUBS, ADD WATER WHILE BACKFILLING HOLE TO ELIMINATE ANY AIR POCKETS IN THE SOIL AROUND THE ROOT BALL.

C. WATER SHRUBS, SOD AND GROUND COVER A MINIMUM OF ONCE DAILY FOR A WEEK OR UNTIL AN IRRIGATION SYSTEM IS FULLY OPERATIONAL. IF NO IRRIGATION SYSTEM IS TO BE INSTALLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE SHRUB, SOD, AND GROUND COVER FOR THE TIME SPECIFIED ABOVE, AFTER INSTALLATION OF EACH SECTION OF THE PLANTING INSTALLED.

3.5 FERTILIZING

A. ADD FERTILIZER ON TOP OF THE SURFACE OF SHRUBS BEDS AND TREE AND PALMS ROOT BALLS TWO (2) MONTHS AFTER INSTALLATION. FERTILIZE SOD WITHIN TWO (2) DAYS AFTER INSTALLING AFTER PLANTING OF EACH SEGMENT OF THE JOB. FERTILIZER SHALL BE APPLIED AFTER SOIL HAS BEEN WELL MOISTENED. FERTILIZER SHALL BE WASHED OFF OF PLANT LEAVES AND STEMS IMMEDIATELY AFTER APPLICATION. APPLY AT THE FOLLOWING RATES:

B. TREES AND LARGE SHRUBS: ONE (1) POUND PER INCH OF TRUNK DIAMETER, SPREAD EVENLY OVER THE ROOT BALL AREA.

1. SHRUBS: ONE HALF (1/2) HANDFUL PER SHRUB, SPREAD EVENLY OVER THE ROOT BALL AREA.
2. GROUND COVER: TWELVE (12) POUNDS PER 100 SQ. FT. OF BED AREA.
3. SOD: TWELVE (12) POUNDS PER 1,000 SQ. FT. WASH FERTILIZER OFF BLADES IMMEDIATELY AFTER SPREADING.

3.6 MULCHING

A. SPREAD MULCH TWO (2) INCHES THICK UNIFORMLY OVER THE ENTIRE SURFACE OF SHRUBS AND GROUND COVER BEDS, DEPTH MEASURED AFTER SETTLING, UNLESS OTHERWISE SPECIFIED IN THE PLANS. PROVIDE 36" DIAMETER BED OF MULCH, MEASURED FROM OUTER EDGE OF THE TRUNK, FOR ALL TREES AND PALMS PLANTED IN SOD AREAS. KEEP MULCH AWAY FROM CONTACT WITH THE TRUNK. CREATE A 6" HIGH RING OF MULCH AT THE OUTER EDGE OF TREE AND PALM HOLES.

3.7 GUYING AND BRACING

A. SEE THE DETAILS BOUND HEREWITH OR MADE PART OF THE PLANS.

3.8 SODDING

A. PROVIDE A BLANKET OF LAWN SAND AS DESCRIBED IN THE NOTES IN THESE PLANS. PRIOR TO PLANTING, REMOVE STONES, STICKS, ETC. FROM THE SUB-SOIL SURFACE. EXCAVATE EXISTING NON-CONFORMING SOIL AS REQUIRED SO THAT THE FINISH GRADE OF SOD IS FLUSH WITH ADJACENT PAVEMENT OR TOP OF CURB AS WELL AS ADJACENT SOD IN THE CASE OF SOD PATCHING.

B. PLACE SOD ON MOISTENED SOIL, WITH EDGES TIGHTLY BUTTED, IN STAGGERED ROWS AT RIGHT ANGLES TO SLOPES. THE SOD SHALL BE ROLLED WITH A 500 POUND HAND ROLLER IMMEDIATELY AFTER PLACING.

C. KEEP EDGE OF SOD BED A MINIMUM OF 18" AWAY FROM GROUND COVER BEDS AND 24" AWAY FROM EDGE OF SHRUB BEDS AND 36" FROM TREES, MEASURED FROM THE EDGE OF PLANT OR TREE TRUNK.

D. SOD SHALL BE WATERED IMMEDIATELY AFTER INSTALLATION TO UNIFORMLY WET THE SOIL TO AT LEAST TWO INCHES BELOW THE BOTTOM OF SOD STRIPS.

E. APPLY FERTILIZER TO THE SOD AS SPECIFIED IN SECTION 3.5.

F. EXCAVATE AND REMOVE EXCESS SOIL SO TOP OF SOD IS FLUSH W/TOP OF CURB OR ADJACENT PAVEMENT, OR ADJACENT EXISTING SOD.

PLANT BED PREPARATION NOTES

1. IN ALL AREAS WHERE NEW SOD AND SHRUB AND GROUND COVER MASSES ARE TO BE PLANTED, KILL ALL EXISTING WEEDS BY TREATING WITH ROUND-UP PRIOR TO BEGINNING SOIL PREPARATION.
2. IN ALL SHRUB AND GROUND COVER BEDS, PREPARE SOIL AS DESCRIBED FOR EITHER CONDITION, OVER THE ENTIRE AREA TO BE PLANTED:

CONDITION A:

IF ANY COMPACTED ROAD BASE OR ASPHALT OR ROCKY SOIL IS ENCOUNTERED, REMOVE COMPACTED MATERIAL ENTIRELY TO ALLOW AN 18" DEPTH OF PLANTING SOIL. BACKFILL THE ENTIRE AREA OF THE SHRUB AND GROUND COVER BEDS WITH 18" PLANTING SOIL (AS SPECIFIED IN PLANS) TO WITHIN 2 INCHES OF THE ADJACENT PAVEMENT OR TOP OF CURB. REMOVE ALL DEBRIS AND ROCKS AND PEBBLES LARGER THAN 2 INCHES IN SIZE AND LEVEL THE GRADE BEFORE PLANTING.

CONDITION B:

WHERE NO COMPACTED SOIL IS ENCOUNTERED, THOROUGHLY MIX 6 INCHES OF PLANTING SOIL INTO THE EXISTING SOIL TO A DEPTH OF 18 INCHES. IF REQUIRED, EXCAVATE AND REMOVE THE EXISTING SOIL TO LOWER THE GRADE, SO THAT THE PREPARED MIX IS FINISHED TO A MINIMUM OF 2 INCHES BELOW TOP OF CURB OR ADJACENT WALKWAY. REMOVE ALL DEBRIS AND ROCKS AND PEBBLES LARGER THAN 2 INCHES IN SIZE AND LEVEL THE GRADE BEFORE PLANTING.

FOR ALL SOD AREAS, SPREAD A 2" DEEP LAYER OF LAWN SAND PRIOR TO SODDING. REMOVE ALL DEBRIS AND ROCKS AND PEBBLES LARGER THAN 2 INCHES IN SIZE AND LEVEL THE GRADE BEFORE SODDING. REMOVE, IF REQUIRED, EXISTING SOIL SO THAT TOP OF SOD IS FLUSH WITH AND ADJACENT TOP OF CURB OR PAVEMENT.

FOR TREES AND SHRUBS LARGER THAN 7 GALLON, ADD DIEHARD® TRANSPLANT INNOCULANT SUPPLIED BY HORTICULTURAL ALLIANCE, INC. (800-628-6373) OR EQUAL. MIX INTO TOP 8-10 INCHES OF PLANTING HOLE, MAKING SURE IT IS CONTACT WITH THE ROOT BALL. ADD AT A RATE SPECIFIED BY MANUFACTURER (TYPICALLY 40Z. PER 1 INCHES OF TRUNK CALIPER OR 7 GALLON CAN).

SPACING OF PLANTS (SEE PLANT SPACING DETAIL)

1. PLANTS SHALL BE PLANTED SUFFICIENTLY AWAY FROM EDGES OF PAVEMENTS OR CURBS, TO ALLOW FOR GROWTH TOWARD THE EDGES OF THE BED.

PROTECTION OF PLANTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING TREES AND SHRUBS IN AND ADJACENT TO THE AREA OF WORK. ERECT BARRIERS AS NECESSARY TO KEEP EQUIPMENT AND MATERIALS, ANY TOXIC MATERIAL, AWAY FROM THE CANOPY DRIP LINE OF TREES AND SHRUBS. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE.

TREE TRANSPLANTING SPECIFICATIONS

1.01 ROOT PRUNING, WATERING BEFORE TRANSPLANTING

A. ALL WORK SHALL BE UNDERTAKEN IN THE PRESENCE OF A REGISTERED ARBORIST EMPLOYED BY THE LANDSCAPE CONTRACTOR. ALL TREES AND PALMS TO BE SAVED SHALL BE EXAMINED FOR DAMAGE, DISEASE AND INSECT INFESTATION. PARTS OF THE TREE SHOWING THESE CONDITIONS SHALL BE TREATED OR PRUNED IN ACCORDANCE WITH THE ARBORISTS RECOMMENDATIONS. REMOVE ALL VINES AND DEAD LIMBS.

B. ALL EXISTING TREES ON SITE MUST BE PRUNED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) OR A REGISTERED CONSULTING ARBORIST WITH THE AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA). PRIOR TO THE PRUNING OF EXISTING TREES, A NOTARIZED AFFIDAVIT AFFIRMING AN ISA CERTIFIED ARBORIST OR AN ASCA REGISTERED CONSULTING ARBORIST WILL CONDUCT OR PROVIDE ONSITE SUPERVISION OF THE PRUNING, SHALL BE SUBMITTED TO THE OWNER, MUNICIPALITY, AND LANDSCAPE ARCHITECT. THE ARBORIST SHALL ASSUME FULL RESPONSIBILITY FOR ALL PRUNING ACTIVITIES IN NONCOMPLIANCE WITH STANDARDS SPECIFIED WITHIN THE LAND DEVELOPMENT CODE.

C. PRIOR TO ROOT PRUNING AND BEFORE EXCAVATING HOLES FOR TRANSPLANTED TREES, CHECK WITH ALL LOCAL UTILITIES TO LOCATE EXISTING UNDERGROUND UTILITIES. IF ANY UNKNOWN UTILITIES OR SPRINKLER PIPES ARE IN ADVERTENTLY BROKEN, DO NOT COVER THEM UP. IMMEDIATELY NOTIFY THE UTILITY AND/OR THE CLIENT, AND TAKE ALL NECESSARY STEPS TO REPAIR THE BREAK.

D. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO MOVING THEM. IT IS NOT NECESSARY TO ROOT PRUNE PALMS PRIOR TO TRANSPLANTING UNLESS SPECIFICALLY INSTRUCTED TO DO SO BY THE LANDSCAPE ARCHITECT. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2"-3" OF WATER.

E. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH TWO-THIRDS (2/3) OF THE WAY AROUND THE TREE AT A MINIMUM OF TWENTY FOUR (24) INCHES DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8 INCHES. THIS TRENCH SHALL FORM A ROOTBALL OF THE MINIMUM FOLLOWING SIZES:

UP TO 5" CALIPER	5' DIAMETER
6"-8" CALIPER	6'-7' DIAMETER
9"-12" CALIPER	9'-10' DIAMETER
OVER 12" CALIPER	12' DIAMETER

F. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MULCH. WATER THEM THOROUGHLY IMMEDIATELY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD. EVERY 2 WEEKS ADD A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE, TO THE WATERING MIX.

G. IT MAY BE NECESSARY TO REMOVE CURBING AND/OR PAVING TO COMPLETE THE ROOT PRUNING OPERATION. WHERE THIS IS REQUIRED, THE CONTRACTOR SHALL FIRST CUT CLEANLY WITH A CONCRETE SAW, ANY SECTION OF CURB OR PAVEMENT BEFORE CUTTING THE ROOTS. THIS MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND THE AREA OF PAVEMENT CUT AND REMOVED BY THE ROOT PRUNING SHALL BE FILLED TO FLUSH WITH ADJACENT PAVEMENT.

1.02 TOP PRUNING AND THINNING

A. THE AMOUNT OF GENERAL PRUNING AND THINNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS OR BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS AS A RESULT OF TRANSPLANTING OPERATIONS. APPROXIMATELY 1/3 OF THE MASS OF THE CANOPY SHALL BE REMOVED UNLESS OTHERWISE INSTRUCTED BY THE LANDSCAPE ARCHITECT. PRUNING AND THINNING SHALL BE DONE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF A PLANT. FOR VERY LARGE TREES THAT MUST BE TRANSPORTED ON PUBLIC R.O.W.'S OR WHERE OBSTACLES REQUIRE IT, ADDITIONAL PRUNING MAY BE ALLOWED AT TIME OF TRANSPORT; CUT BACK TREES TO THE MAXIMUM SIZE WHICH CAN BE TRANSPORTED AFTER LIMBS ARE TIED IN AS MUCH AS POSSIBLE. THE LANDSCAPE ARCHITECT SHALL BE CONTACTED PRIOR TO PERFORMING ANY MAJOR PRUNING OR THINNING.

1.03 BRACING AND GUYING OF TREES AFTER ROOT PRUNING

A. BRACING AND GUYING SHALL BE PROVIDED TO ASSURE THE TREES' STABILITY DURING THE ROOT REGENERATION PERIOD, IF REQUIRED BY THE LANDSCAPE ARCHITECT.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

1.04 BALLING AND BURLAPPING
 A. PLANT MATERIAL WHICH IS IN A SOIL OF A LOOSE TEXTURE, WHICH DOES NOT READILY ADHERE TO THE ROOT SYSTEM, ESPECIALLY IN THE CASE OF LARGE PLANTS OR TREES, SHALL HAVE THE ROOTBALL WRAPPED IN BURLAP AND THEN WIRE, IF DIRECTED BY THE LANDSCAPE ARCHITECT.

1.05 TRANSPLANTING PLANT MATERIAL
 A. MOVEMENT OF PLANTS ON PUBLIC R.O.W.'S SHALL COMPLY WITH ALL ORDINANCES, CODES AND SAFETY REQUIREMENTS, ETC.
 B. TRANSPORT MATERIALS ON VEHICLES LARGE ENOUGH TO ALLOW PLANTS TO NOT BE CROWDED AND DAMAGED. PLANTS SHALL BE COVERED TO PREVENT WIND DAMAGE DURING TRANSIT.

C. PROTECT PLANT MATERIAL DURING TRANSPORTING TO PREVENT DAMAGE TO THE ROOT SYSTEM AND DESICCATION OF LEAVES. REES SHALL BE PROTECTED BY TYING IN THE BRANCHES AND COVERING ALL EXPOSED BRANCHES AS NECESSARY. DO NOT BEND OR BIND-TIE PLANT MATERIAL IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES OR ALTER THE NATURAL SHAPE.

D. THE CONTRACTOR SHALL EXERCISE CARE IN HANDLING, LOADING, UNLOADING, STORING, AND TRANSPORTING MATERIAL TO PREVENT DAMAGE. HE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF MATERIALS STORED.

E. TRANSPLANTING MUST BE DONE WITHIN 24 HOURS AFTER BEING DUG. STORE PLANTS IN SHADE AND KEEP THE ROOT BALL AND CANOPY MOIST.

1.06 INSTALLATION
 A. EXCAVATION OF HOLES: PLANT HOLES SHALL BE ROUGHLY CYLINDRICAL IN SHAPE WITH SIDES APPROXIMATELY VERTICAL. THE DEPTH OF THE HOLE SHALL BE EQUAL TO THE ROOTBALL DEPTH PLUS 12" UNLESS FURTHER DEPTH IS REQUIRED TO PROVIDE ADEQUATE DRAINAGE. THE DIAMETER OF THE HOLE SHALL BE A MINIMUM OF 24" LARGER THAN THE ROOTBALL DIAMETER.

B. SETTING OF PLANTS: PLANT MATERIAL SHALL BE PLANTED AT THEIR NATURAL AND ORIGINAL PLANTING LEVEL PRIOR TO THEIR PLACEMENT ON THIS PROJECT OR JOB. WHEN LOWERED INTO THE HOLE, THE PLANTS SHALL REST ON THE PREPARED HOLE BOTTOM SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE LEVEL OR SLIGHTLY ABOVE THE LEVEL OF THE TOP OF THE HOLE. CREATE A SAUCER, APPROXIMATELY 6" DEEP TO HELP HOLD WATER. THE PRACTICE OF PLUNGING, BURYING OR PLANTING AND PLANT MATERIAL SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE BELOW THE LEVEL OF THE SURROUNDING FINAL GRADE WILL NOT BE PERMITTED UNLESS IT IS INDICATED OTHERWISE IN THESE SPECIFICATIONS. THE PLANTS SHALL BE SET STRAIGHT OR PLUMB OR NORMAL TO THE RELATIONSHIP OF THEIR GROWTH PRIOR TO TRANSPLANTING. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REALIGN ANY PLANT MATERIAL AFTER IT HAS BEEN SET.

C. BACKFILLING
 1. USE PLANTING SOIL CONSISTING OF 40% SILICA SAND, 40% MUCK, AND 20% WELL-ROTTED COMPOST DERIVED FROM YARD WASTES.
 2. BACKFILL THE BOTTOM TWO-THIRDS OF THE PLANTING HOLE AND FIRMLY TAMP AND SETTLE BY WATERING AS BACKFILLING PROGRESSES. AFTER HAVING TAMPED AND SETTLED THE BOTTOM TWO-THIRDS OF THE HOLE, THOROUGHLY PUDDLE WITH WATER AND FILL REMAINING ONE-THIRD OF THE HOLE WITH PLANTING SOIL, TAMPING AND WATERING TO ELIMINATE AIR POCKETS.
 3. ADD DIEHARD™ TRANSPLANT INNOCULANT SUPPLIED BY HORTICULTURAL ALLIANCE, INC. (800-628-6373) OR EQUAL. MIX INTO TOP 8-10 INCHES OF PLANTING HOLE, MAKING SURE IT IS CONTACT WITH THE ROOT BALL. ADD AT A RATE OF ONE (1) 8OZ. BAG PER 2 INCHES OF TRUNK CALIPER.

1.07 WATERING TRANSPLANTED TREES:
 A. ONCE TREES HAVE BEEN RELOCATED AND WELL-WATERED IN DURING THE TRANSPLANTING, PROVIDE WATER FOR A PERIOD OF 60 DAYS AFTER TRANSPLANTING.

B. ROOTBALL WATERING: MAINTAIN A SOIL MOISTURE IN THE ROOT ZONE AT AN OPTIMUM LEVEL FOR GROWTH, BY DEEP WATERING OF THE ENTIRE ROOTBALL AREA ACCORDING TO THE FOLLOWING SCHEDULE:

WHEN	FREQUENCY	AMOUNT
FIRST WEEK	ONCE DAILY	3" PER TREE
SECOND WEEK	EVERY OTHER DAY	2" PER TREE
FOLLOWING MONTH	TWICE A WEEK	1" PER TREE
LAST 2 WEEKS	ONCE PER WEEK	1" PER TREE

C. IN ADDITION TO THE ROOTBALL WATERING, THE CANOPY OF THE LARGE SHADE TREES (OVER 12" CALIPER) SHALL BE WATERED WITH AN AUTOMATIC IRRIGATION SYSTEM SPRAYING THE CANOPY. SPRAY HEADS SHALL BE INSTALLED NEAR THE TOP OF THE CANOPY AND SPACED SO THAT THE ENTIRE CANOPY SHALL BE SPRAYED. THIS SYSTEM SHALL REMAIN IN PLACE UNTIL DIRECTED BY THE LANDSCAPE ARCHITECT TO BE REMOVED.

D. IF THERE IS NO SOURCE FOR WATER AVAILABLE AT THE PROJECT, SUCH AS A HOSE BIB(S) OR FIRE HYDRANTS(S) IF APPROVED FOR USE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING WATER BY MEANS OF A TRUCK OR TANK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY ANY FEES FOR WATER USE.

1.08 MULCHING OF PLANT SAUCER
 A. SPREAD 3" THICK LAYER OF SHREDDED EUCALYPTUS OR MELALEUCA MULCH OVER ENTIRE AREA OF THE ROOTBALL.

1.09 APPLICATION OF FERTILIZER
 A. AT TIME OF WATERING ROOT-PRUNED TREES PRIOR TO TRANSPLANTING, DRENCH ROOTBALL ONCE PER WEEK DURING THE COURSE OF WATERING WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.

B. THREE (3) WEEKS AFTER TRANSPLANTING, AND AFTER MULCHING, APPLY ON THE SURFACE, EVENLY SPREAD OVER THE AREA OF THE ENTIRE ROOTBALL, FEC (FLORIDA EAST COAST FERTILIZER CO) #5231 (12-6-8) OR EQUAL AT THE RATE OF ONE (1) POUND PER INCH OF TRUNK DIAMETER.

1.10 STAKING TREES
 A. STAKE ALL TREES AND PALMS AT THE NEW SITE WITH NEW TIMBERS WITH A MINIMUM 2" X 4" DIMENSION AS PER THE DETAILS ENCLOSED, OR IN THE CASE OF OBSTACLE, IN ANOTHER MANNER WHICH WILL SUPPORT THE TREE.

1.11 CLEAN-UP
 A. DISPOSAL OF WASTE: ALL WASTE AND OTHER OBJECTIONABLE MATERIAL CREATED THROUGH PLANTING OPERATIONS AND LANDSCAPE CONSTRUCTION SHALL BE REMOVED COMPLETELY ON A DAILY BASIS FROM THE JOB OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. ANY PAVED AREAS, INCLUDING CURBS AND SIDEWALKS WHICH HAVE BEEN STREWN WITH SOIL, SOD WASTE, FERTILIZER OR OTHER WASTE SHALL BE THOROUGHLY SWEEPED. THE CLIENT IS NOT REQUIRED TO SUPPLY AREAS OR FACILITIES FOR STORAGE OR REMOVAL OF WASTE ON-SITE.

B. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF STAKES AND BATTENS AND UNTIE ANY TIED-UP CANOPIES WHEN IT IS DETERMINED BY THE LANDSCAPE ARCHITECT THAT SUFFICIENT TIME HAS ELAPSED FOR THE PLANTS TO ROOT STABILIZING THE PLANT. THIS SHALL BE DONE EVEN IF THE PROJECT HAS BEEN COMPLETED AND GIVEN FINAL ACCEPTANCE.

C. BACKFILLING SHALL BE DONE IMMEDIATELY AFTER TREE REMOVAL, OR SUITABLE BARRICADES SHALL BE PROVIDED TO PREVENT INJURIES. THE CONTRACTOR SHALL BACKFILL HOLES WITH CLEAN FILL TO A LEVEL FLUSH WITH ADJACENT GRADE.

1.12 MAINTENANCE OF TRAFFIC
 A. DURING ALL TRANSPLANTING OPERATIONS, THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE SAFE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND HAZARDOUS AREAS. THE CONTRACTOR SHALL PROVIDE BARRICADES, CONES, SIGNAL BOARDS, ETC. AS NECESSARY TO ADEQUATELY WARN TRAFFIC AND MAINTAIN FLOW OF TRAFFIC AROUND OR THROUGH CONSTRUCTION ZONES. WORK SHALL BE PERFORMED IN SUCH A MANNER THAT MINIMIZES THE AMOUNT OF TIME TRAFFIC IS IMPEDED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL INCLUDE LANDSCAPING LOGISTICS AS PART OF MOT PLAN AND SUBMIT FOR REVIEW AND APPROVAL TO EOR, OWNER, AND CITY.

1.13 GUARANTEE AND REPLACEMENT
 A. PLANT MATERIAL WHICH IS ON THE SITE AND SCHEDULED TO BE TRANSPLANTED IS NOT COVERED BY THE GUARANTEE, EXCEPT IN THE CASE OF CONTRACTOR'S NEGLIGENCE OR WORK THAT HAS BEEN DONE IN AN UNWORKMANLIKE MANNER. IF IT IS DETERMINED BY THE LANDSCAPE ARCHITECT AND CONSULTING ARBORIST THAT THE CONTRACTOR'S NEGLIGENCE OR UNWORKMANLIKE OPERATIONS HAS SEVERELY DAMAGED OR POSES A THREAT TO THE HEALTH OF MATERIAL TO BE TRANSPLANTED OR ALREADY TRANSPLANTED, THEN THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE TREE AT A SIZE EQUAL TO THE TRANSPLANTED TREE, AT HIS/HER COST, AND WATER IT AS PER 1.07.

TREE PROTECTION SPECIFICATIONS

1. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.

2. PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (I.E., HAY BALES, BAFFLES, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.

3. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.

4. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.

5. INSTALL TREE BARRICADES TO THE FULLEST EXTENT OF THE DRIPLINE OF ALL TREES/PALMS AS POSSIBLE AND/OR TO THE MAXIMUM LIMIT OF IMPROVEMENT(S) AS POSSIBLE (OF COURSE REALIZING THAT THE TREE BARRICADES MAY HAVE TO BE "BACKED OFF" THE IMPROVEMENT(S) BY 1' TO 2' MAXIMUM TO INSTALL THE IMPROVEMENT(S). DO NOT INSTALL TREE BARRICADES (SPECIFICALLY SILT FENCING MATERIAL) BY TRENCHING WITHIN THE DRIPLINE OF EXISTING TREES/PALMS.

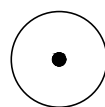
6. LAND ALTERATION AND CONSTRUCTION ACTIVITIES SHALL BE APPROVED WITHIN THE DRIPLINE OF A TREE TO BE RETAINED ON THE SITE PROVIDED DESIGN TECHNIQUES ARE USED THAT MINIMIZE DAMAGE TO THE ROOT SYSTEM OF THE TREE (E.G., RETAINING WALLS, TREE WELLS, ROOT AERATION DEVICES, PERVIOUS PAVERS, PERVIOUS CONCRETE, GREEN SPACE, AS APPROPRIATE). WHERE IT IS NOT PRACTICAL FOR UNDERGROUND UTILITY LINES TO BE ROUTED AROUND THE DRIPLINE, TUNNELING SHALL BE EMPLOYED TO ROUTE THE LINES THROUGH THIS AREA.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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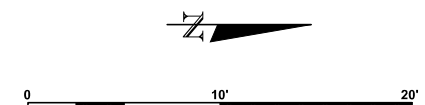
**SEWER PS 25
 LANDSCAPE NOTES - III**

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TREE SCHEDULE:

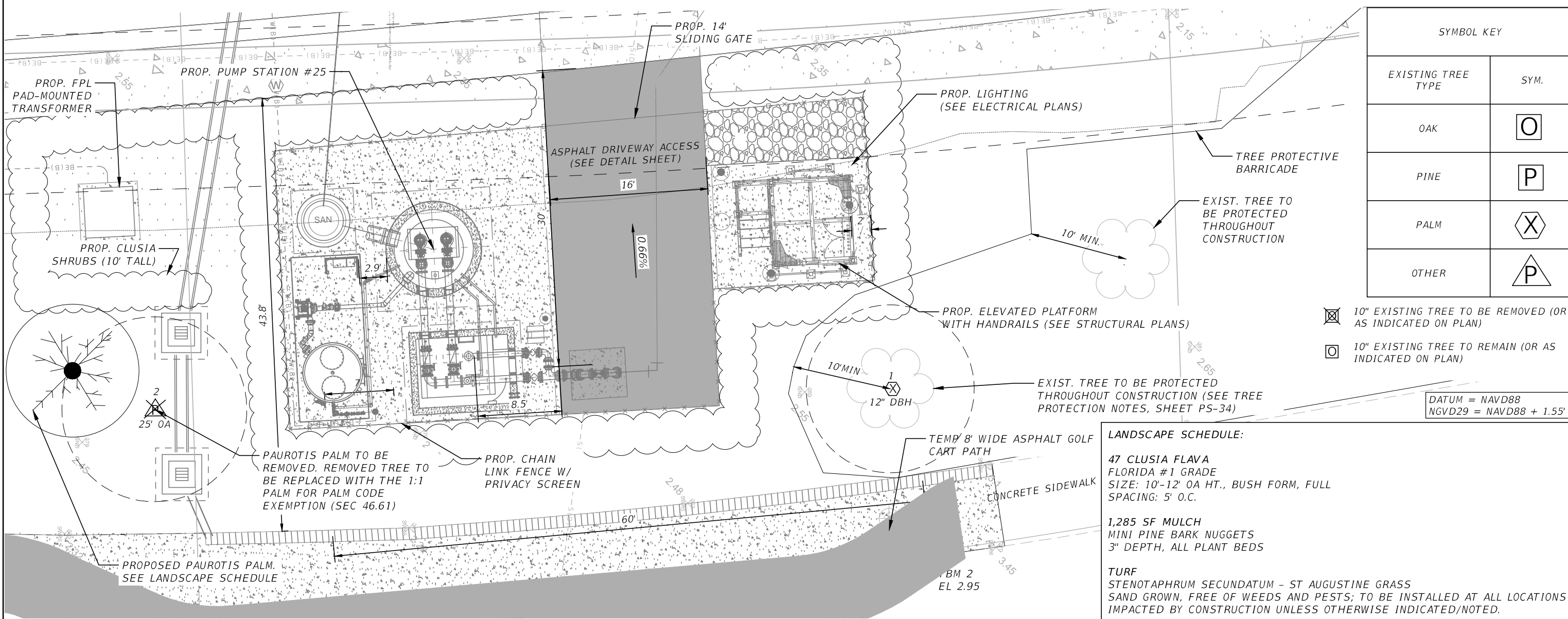


COMMON NAME	BOTANICAL NAME	CAL	SIZE	QTY	REMARKS
PAUROTIS PALM	ACOELORRHAPHE WRIGHTII		MULTI-STEM 20' HT	1	AVAILABLE AT EVEGLADES NURSERY IN HOMESTEAD FL



TREE DISPOSITION TABLE

SHEET NUMBER	TREE NO.	SYMBOL	COMMON NAME	BOTANICAL NAME	DBH (IN.) FOR TREES/CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) APPROX.	CONDITION GOOD	DISPOSTION	NOTES MULTI - TRUNKS
-	1		PIGEON PLUM	COCCOLOBA DIVERSIFOLIA	12"	25'-0"	20'-0"	GOOD	REMAIN	
-	2		PAUROTIS PALM	ACOELORRHAPHE WRIGHT II	-	25'-0"	20'-0"		REMOVE	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 MARLON J. MEDINA, P.E.
 P.E. License No. 77052
 901 Ponce de Leon Blvd., Suite 900
 Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

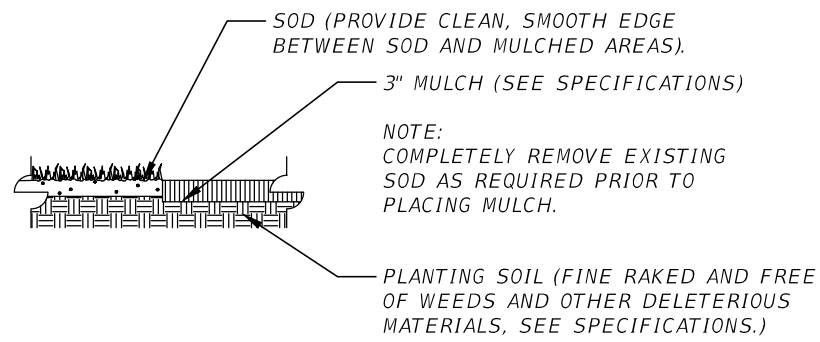
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
 LANDSCAPE PLAN

SHEET NO.
 PS-35

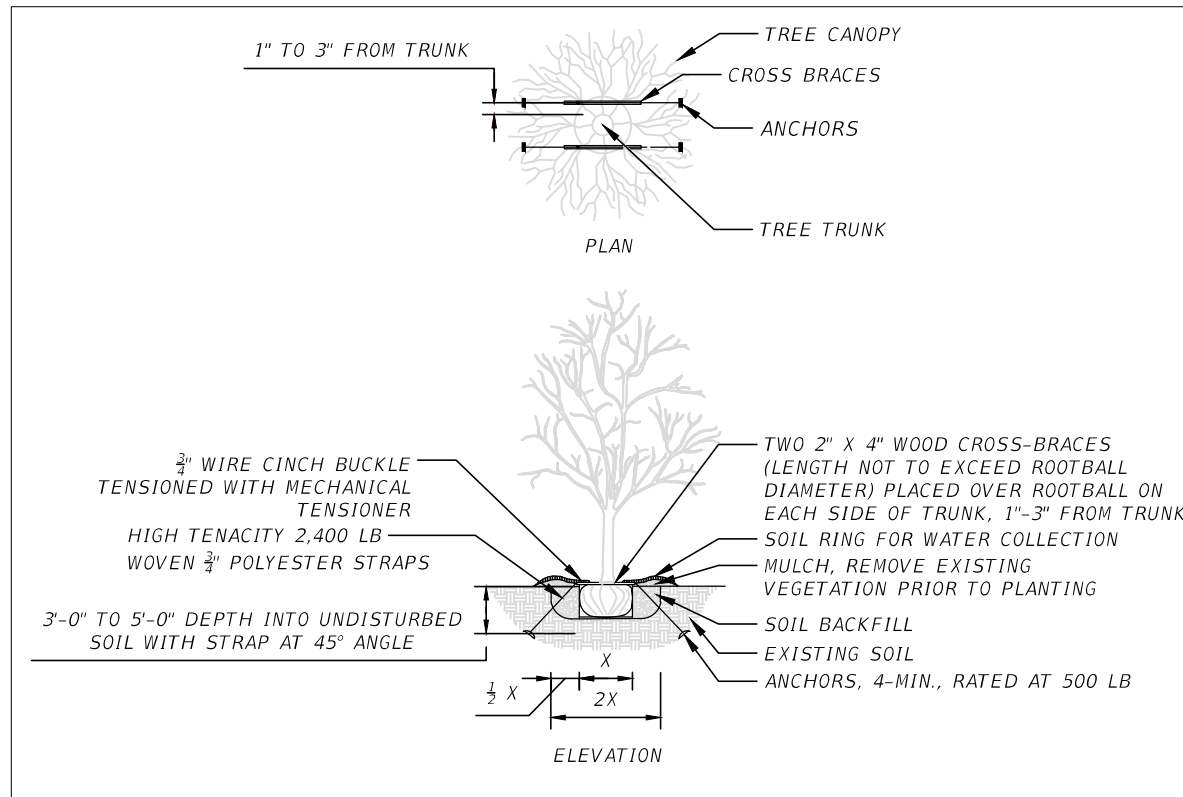
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NOTE:
ALL MULCH SHALL BE PEST AND INSECT FREE.



DETAIL 1
TYPICAL MULCH APPLICATION

SCALE: 1"=10'-0"



DETAIL 2
UNDER 4" CALIPER TREE PLANTING WITH UNDER BRACING

SCALE: 1"=10'-0"

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-36
						SR 907	MIAMI-DADE		429193-1-56-01

SINGLE LINE DIAGRAM, SCHEMATIC DIAGRAM SYMBOLOGY AND PLAN SYMBOLOGY

THERMAL MAGNETIC CIRCUIT BREAKER
X = LOCATION
100 ← FRAME (AMPS)
20 ← TRIP (AMPS)

MCP CIRCUIT BREAKER
X = LOCATION
7 ← CONTINUOUS AMPS
MCP ← TRIP SETTING BASED ON MOTOR HORSEPOWER

LOW VOLTAGE DRAWOUT CIRCUIT BREAKER (L-S-I-G)
100 ← LONG TIME
20 ← SHORT TIME
I ← INSTANTANEOUS
G ← GROUND FAULT

COMBINATION NEMA RATED STARTER WITH MCP DISCONNECT AND CONTROL POWER TRANSFORMER
40 ← ROMAN NUMERAL = NEMA SIZE
MCP ← X = LOCATION
* = STARTER TYPE
(BLANK) FULL VOLTAGE NON-REVERSING
FVR FULL VOLTAGE REVERSING
2S2W TWO SPEED TWO WINDING
2S1W TWO SPEED ONE WINDING

VARIABLE FREQUENCY DRIVE
X ← AMPERE RATING

REDUCED VOLTAGE SOLID STATE STARTER
X ← AMPERE RATING

PACKAGED EQUIPMENT
X = EQUIPMENT SIZE
Y = TYPE (KW, KVA, OR HP AS INDICATED)

GENERATOR
RATINGS AS INDICATED

TRANSFER SWITCH (MANUAL OR AUTOMATIC)
RATINGS AS INDICATED

METERING DEVICE
X = METER TYPE
WHM WATT HOUR METER
WM WATT METER
AM AMMETER
VM VOLTMETER
PFM POWER FACTOR METER
UM UTILITY METER

POTENTIAL TRANSFORMER
RATIO AND NUMBER OF PT'S AS INDICATED
480/120 (3)

CURRENT TRANSFORMER
RATIO AND NUMBER OF CT'S AS INDICATED
100/5 (3)

GROUND FAULT CURRENT TRANSFORMER
RATIO AS INDICATED

FUSE
SIZE AS INDICATED
5A

MOTOR
X = HORSEPOWER
* = FULL LOAD AMPS

DELTA-WYE TRANSFORMER WITH SECONDARY KVA SIZE AND VOLTAGE RATIO AS INDICATED

ELECTRICAL MOTOR OPERATED VALVE, WITH INTEGRAL REVERSING STARTER
MOV

DISCONNECT SWITCH
SIZE AS INDICATED
30A

FUSED DISCONNECT SWITCH
SIZE AS INDICATED
30A

SURGE PROTECTIVE DEVICE
SPD

SOLID STATE METERING DEVICE
SSM

SOLID STATE MOTOR PROTECTIVE DEVICE
SSMP

THREE - POSITION SELECTOR SWITCH
L R

VACUUM OR PRESSURE SWITCH
CLOSE ON RISING PRESSURE

VACUUM OR PRESSURE SWITCH
OPEN ON RISING PRESSURE

FLOAT LEVEL SWITCH
CLOSE ON RISING LEVEL

FLOAT LEVEL SWITCH
OPEN ON RISING LEVEL

NORMALLY OPEN

NORMALLY CLOSED

NORMALLY OPEN HELD CLOSED

NORMALLY CLOSED HELD OPEN

TEMPERATURE SWITCH
CLOSE ON RISING TEMPERATURE

TEMPERATURE SWITCH
OPEN ON RISING TEMPERATURE

FLOW SWITCH
CLOSE ON INCREASING FLOW

FLOW SWITCH
OPEN ON INCREASING FLOW

E-STOP PUSHBUTTON

CONTROL RELAY OR COIL
X = DEVICE
CR CONTROL RELAY
TD TIME DELAY RELAY (TIMING RANGE AS INDICATED)
M MOTOR STARTER
PC PHOTOCELL

NORMALLY OPEN CONTACT

NORMALLY CLOSED CONTACT

TIMED CONTACTS
CONTACT ACTION IS DELAYED AFTER COIL IS:

ENERGIZED

TD1 → NORMALLY OPEN WITH TIME DELAY CLOSING

TD1 → NORMALLY CLOSED WITH TIME DELAY OPENING

DE-ENERGIZED

TD1 → NORMALLY OPEN WITH INSTANT CLOSING AND TIME DELAY OPENING

TD1 → NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING

START
NORMALLY OPEN PUSHBUTTON

STOP
NORMALLY CLOSED PUSHBUTTON

NO/NC MAINTAINED PUSHBUTTON

PILOT LIGHT
X = LENS COLOR
R RED
G GREEN
A AMBER
W WHITE

PILOT LIGHT (PUSH-TO-TEST)
X = LENS COLOR (SEE ABOVE)

HORN

ELAPSED TIME METER
ETM

HEATER

GROUND CONNECTION

CROSSING OF CONDUCTORS - NOT CONNECTED

CROSSING OF CONDUCTORS - CONNECTED

FUSE

VOLTAGE SURGE SUPPRESSOR

RECEPTACLES

120V DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R (WALL MOUNT)
X = PANELBOARD DESIGNATION
= CIRCUIT DESIGNATION
* = TYPE

WP WEATHERPROOF
XP EXPLOSION PROOF
GFCI GROUND FAULT CIRCUIT INTERRUPTER

CONDUIT AND RACEWAY SYMBOLOGY

— EXPOSED CONDUIT

- - - CONDUIT RUN (UNDERGROUND OR IN CONCRETE)

—○— CONDUIT RUN (CHANGE IN ELEVATION)

—○ CONDUIT TURNING UP

—○ CONDUIT TURNING DOWN

— CONDUITS GROUPED TOGETHER BUT SHOWN AS A SINGLE LINE FOR CLARITY

●○ CONDUIT FROM FLOOR ABOVE TO FLOOR BELOW

—] CONDUIT CAPPED, OR SEALED

→ HOMERUN TO EQUIPMENT INDICATED (3/4" CONDUIT, 2 #12, 1 #12 GND UNLESS INDICATED OTHERWISE)

○ JUNCTION BOX OR FITTING

BE(B)- BURIED ELECTRICAL

BE BE BE BE BURIED ELECTRICAL UTILITY CONDUIT

MISC. ELECTRICAL SYMBOLOGY

□ POWER PANEL

□ DISCONNECT SWITCH

○ M MOTOR

○ T THERMOSTAT

□ HORN

□ COMBINATION STARTER

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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SINGLE LINE DIAGRAM, SCHEMATIC DIAGRAM SYMBOLOGY AND PLAN SYMBOLOGY

LIGHTING SYMBOLOGY

LUMINAIRE
 X = LIGHTING PANEL DESIGNATION
 # = CIRCUIT NUMBER
 a = SWITCH DESIGNATION

WALL MOUNTED LUMINAIRE

POLE, BRACKET, ARM, AND STREETLIGHT

LIGHT SWITCH
 X = LIGHTING PANEL DESIGNATION
 # = CIRCUIT DESIGNATION
 a = SWITCH DESIGNATION
 * = SWITCH TYPE

3 3-WAY
 4 4-WAY
 D DIMMER
 M MANUAL MOTOR STARTER

LIGHTING PANEL

GROUNDING SYMBOLOGY

GROUND ROD AND GROUND WELL

GROUND ROD (3/4" X 10'-0")

GROUND CONNECTION - BOLTED TYPE

GROUND CONNECTION - EXOTHERMIC TYPE

BARE COPPER GROUND TO GROUND WIRE IN SLAB, OR UNDERGROUND GROUND GRID, SIZE AS NOTED

EARTH GROUNDING

GENERAL ELECTRICAL NOTES

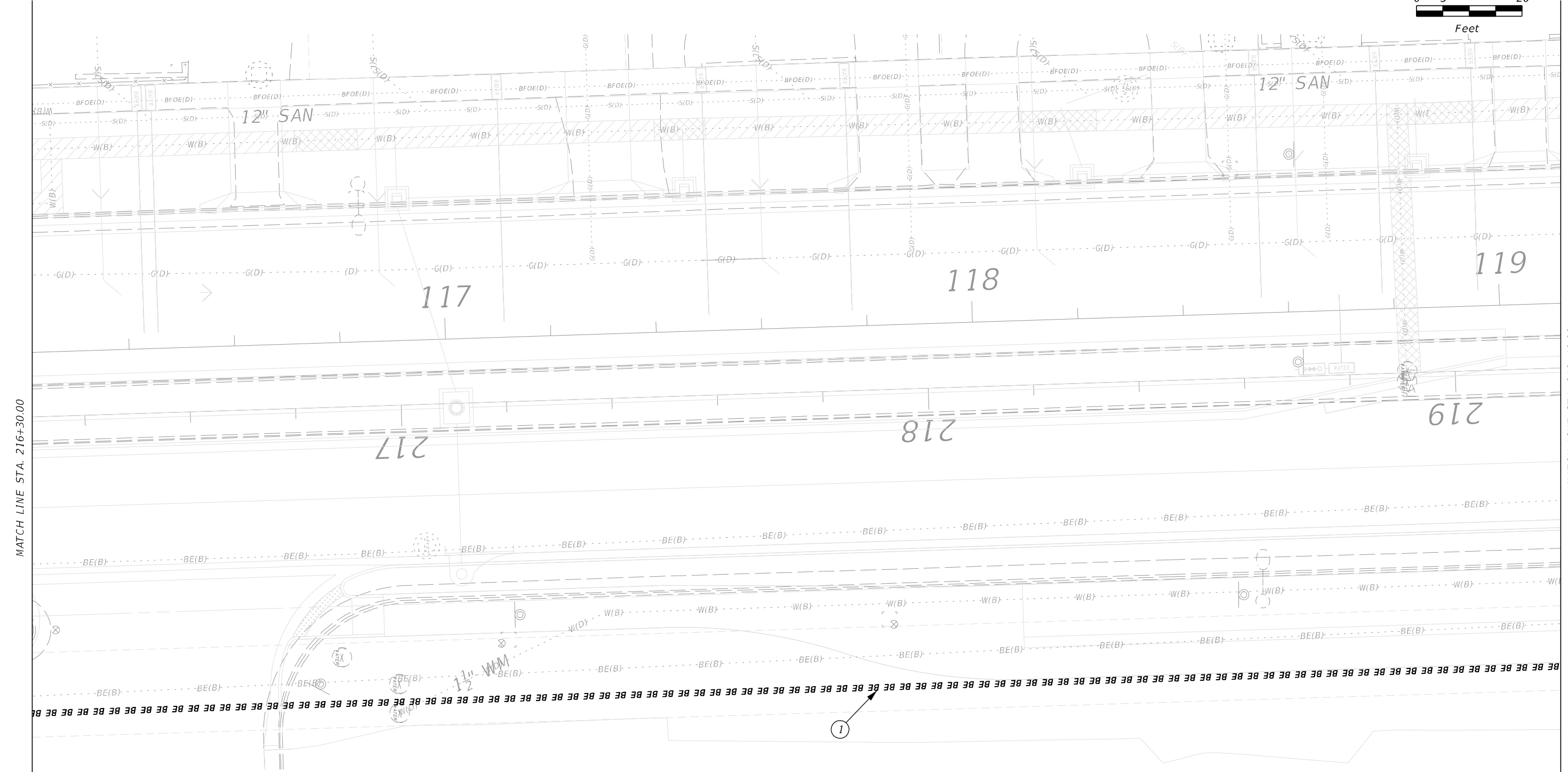
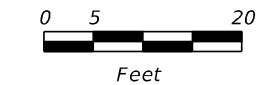
- ALL RACEWAYS AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST APPROVED AND ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST APPROVED SHOP DRAWINGS BEFORE STUBBING UP CONDUITS.
- FLEXIBLE CONDUIT SHALL BE STRICTLY LIMITED TO APPLICATIONS WHERE FLEXIBILITY IS REQUIRED SUCH AS FOR VIBRATING EQUIPMENT OR INSTRUMENTATION. LENGTH SHALL NOT EXCEED 4'-0".
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT OR STRUCTURAL CONDITIONS. EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BEAMS AND WALLS.
- CONDUIT STUB-UPS SHALL NOT BE MORE THAN 6 INCHES FROM THE CENTERLINE OF TERMINAL BOXES.
- IN THE EVENT OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND THE ENGINEER SHALL APPROVE PROPOSED CHANGES BEFORE THEY ARE MADE.
- ALL SURFACE MOUNTED PANELS SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4 INCH (MINIMUM) AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
- LOCATION OF PULL BOXES ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH MECHANICAL PIPING AND SHALL BE 6 INCHES (MINIMUM) AWAY FROM MECHANICAL PIPING FLOW LINES.
- ONLY MAJOR PULL BOXES ARE SHOWN. THE CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES WHERE REQUIRED TO MAKE A WORKABLE INSTALLATION.
- THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DETAILS WHETHER OR NOT THEY ARE REFERENCED ON THE DRAWINGS.
- ALL CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION AND DEFLECTION TYPE FITTINGS. FOR LOCATIONS OF EXPANSION JOINTS, REFER TO THE STRUCTURAL DWGS.
- LUMINAIRES SHALL BE MOUNTED ACCORDING TO THE MOUNTING HEIGHT GIVEN ON THE DRAWINGS, WITH THE DISTANCE BEING MEASURED FROM THE BOTTOM OF THE LUMINAIRE TO THE FINISHED GRADE. THE APPROPRIATE MOUNTING BRACKETS AND HARDWARE SHALL BE SUPPLIED.
- ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE CENTERLINE OF THE TOP CIRCUIT BREAKER OPERATING HANDLE IN THE UPPERMOST POSITION TO THE FINISHED FLOOR SHALL NOT EXCEED 6'-7".
- THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.
- CONNECTIONS BETWEEN RIGID CONDUIT AND MOTOR TERMINAL BOXES OR SIMILAR EQUIPMENT SUBJECT TO VIBRATION SHALL BE FLEXIBLE LIQUID-TIGHT CONDUIT. LIMITED TO 3' MAXIMUM LENGTH.
- CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTION TO MOTORS AND OTHER EQUIPMENT.
- CONDUITS FOR FUTURE EQUIPMENT OR EXTENSIONS SHALL BE TERMINATED AS SHOWN IN DETAIL OR AS SPECIFIED.
- ANY SERVICE RECEPTACLE SHALL BE GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES WITH WEATHERPROOF COVERS.
- ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE PROJECT TO VERIFY THE SCOPE OF WORK WITH FIELD CONDITIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUITS, WIRES, FITTINGS, JUNCTION BOXES AND ALL NECESSARY COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS, TO MAKE THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIONAL. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS INDICATED OTHERWISE. CIRCUIT LOADING SHALL BE AS INDICATED IN THE PANEL SCHEDULES. ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL INCLUDE GROUND WIRE.

ELECTRICAL ABBREVIATIONS

A	AMPERE	SDC	SERVICE DISCONNECT
AC	ALTERNATING CURRENT	SP	SPARE
AF	CIRCUIT BREAKER FRAME SIZE	SP HTR	SPACE HEATER
AT	AMPERE TRIP	SPDT	SINGLE POLE DOUBLE THROW
AUTO	AUTOMATIC	SPST	SINGLE POLE SINGLE THROW
AWG	AMERICAN WIRE GAUGE	ST, SH	SHUNT TRIP
		SW	SWITCH
C	CONDUIT, CLOSED	TD	TIME DELAY RELAY
CB	CIRCUIT BREAKER	TS	TEMPERATURE SWITCH
CKT	CIRCUIT		
COM	COMMON	UM	UTILITY METER
CP	CONTROL PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
CPT	CONTROL POWER TRANSFORMER		
CT	CURRENT TRANSFORMER	V	VOLTAGE, VOLTS
		VA	VOLT AMPERE
DISC	DISCONNECT	VAR	VOLT AMERE REACTIVE
DPDT	DOUBLE POLE DOUGLE THROW		
DPST	DOUBLE POLE SINGE THROW	W	WATTS, WIRE
		WM	WATT METER
ETM	ELAPSED TIME METER	WP	WEATHERPROOF
F	FREQUENCY, FUSE, FIXED		
FLA	FULL LOAD AMPS	XFMR	TRANSFORMER
FVNR	FULL VOLTAGE NON-REVERSING	XP	EXPLOSION PROOF
G, GND	GROUND		
H	HAND		
HH	HANDHOLE		
H0A	HAND-OFF-AUTOMATIC		
HS	HAND SWITCH		
HZ	HERTZ		
IJB	INSTRUMENTATION JUNCTION BOX		
ISR	INTRINSIC SAFE RELAY		
JB	JUNCTION BOX		
L	LOCAL		
LCP	LOCAL CONTROL PANEL		
LP	LIGHTING PANEL		
LS	LEVEL SWITCH		
MCP	MOTOR CIRCUIT PROTECTECTOR		
MJB	MOTOR JUNCTION BOX		
NEUT	NEUTRAL		
NP	NAMEPLATE		
OL	OVERLOAD		
PB	PUSHBUTTON, PULL BOX, PANELBOARD		
PF	POWER FACTOR		
PH	PHASE		
PL	PILOT LIGHT		
PM	PHASE MONITOR		
PRI	PRIMARY		
R	REMOTE		
RECPT	RECEPTACLE		
RTU	REMOTE TERMINAL UNIT		

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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MATCH LINE STA. 216+30.00

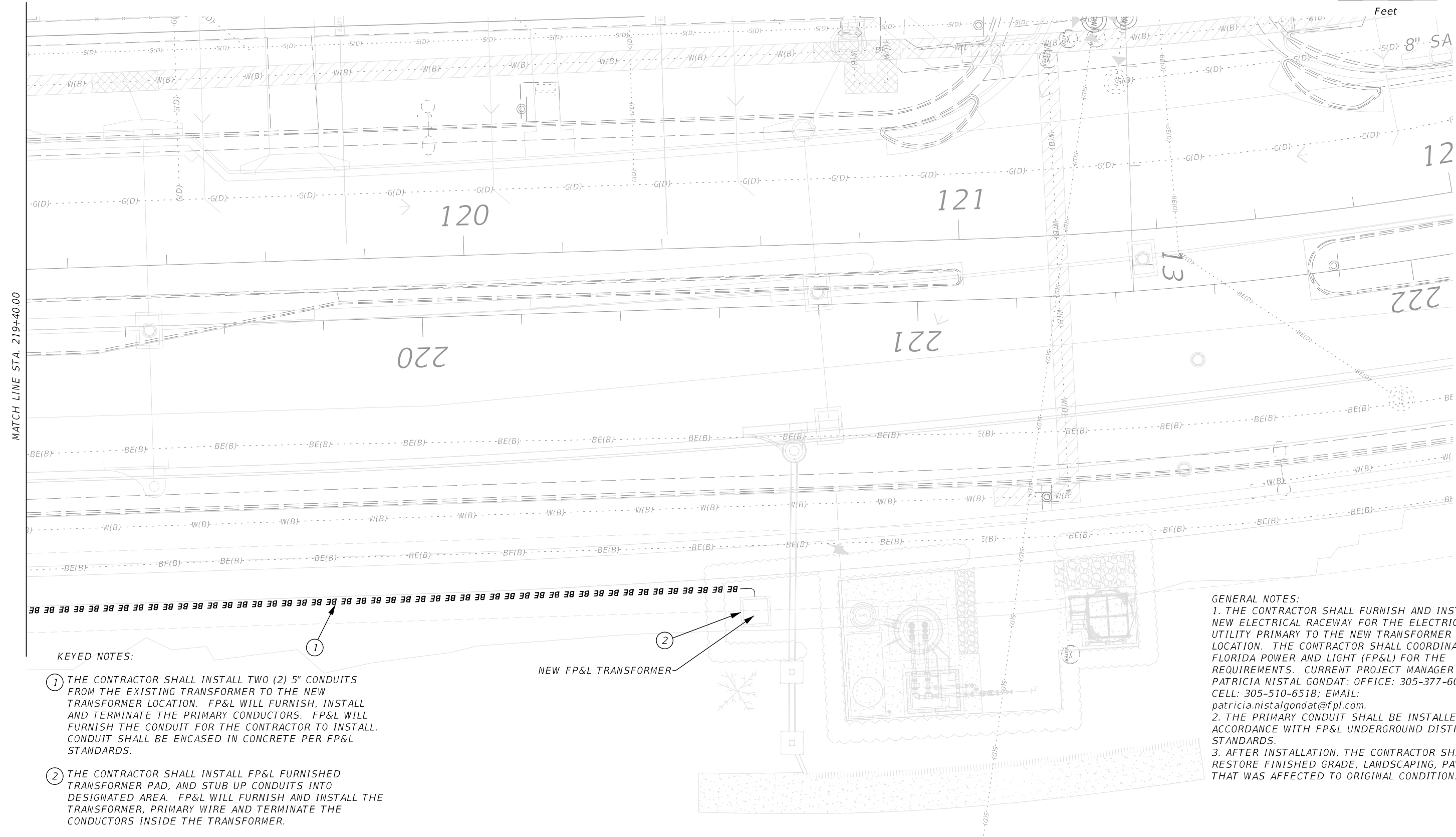
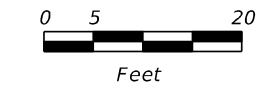
MATCH LINE STA. 219+40.00

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRICAL RACEWAY FOR THE ELECTRICAL UTILITY PRIMARY TO THE NEW TRANSFORMER LOCATION. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT (FP&L) FOR THE REQUIREMENTS. CURRENT PROJECT MANAGER PATRICIA NISTAL GONDAT: OFFICE: 305-377-6003; CELL: 305-510-6518; EMAIL: patricia.nistalgondat@fpl.com.
 2. THE PRIMARY CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH FP&L UNDERGROUND DISTRIBUTION STANDARDS.
 3. AFTER INSTALLATION, THE CONTRACTOR SHALL RESTORE FINISHED GRADE, LANDSCAPING, PAVEMENT THAT WAS AFFECTED TO ORIGINAL CONDITIONS.

- KEYED NOTES:**
- ① THE CONTRACTOR SHALL INSTALL TWO (2) 5" CONDUITS FROM THE EXISTING TRANSFORMER TO THE NEW TRANSFORMER LOCATION. FP&L WILL FURNISH, INSTALL AND TERMINATE THE PRIMARY CONDUCTORS. FP&L WILL FURNISH THE CONDUIT FOR THE CONTRACTOR TO INSTALL. CONDUIT SHALL BE ENCASED IN CONCRETE PER FP&L STANDARDS.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

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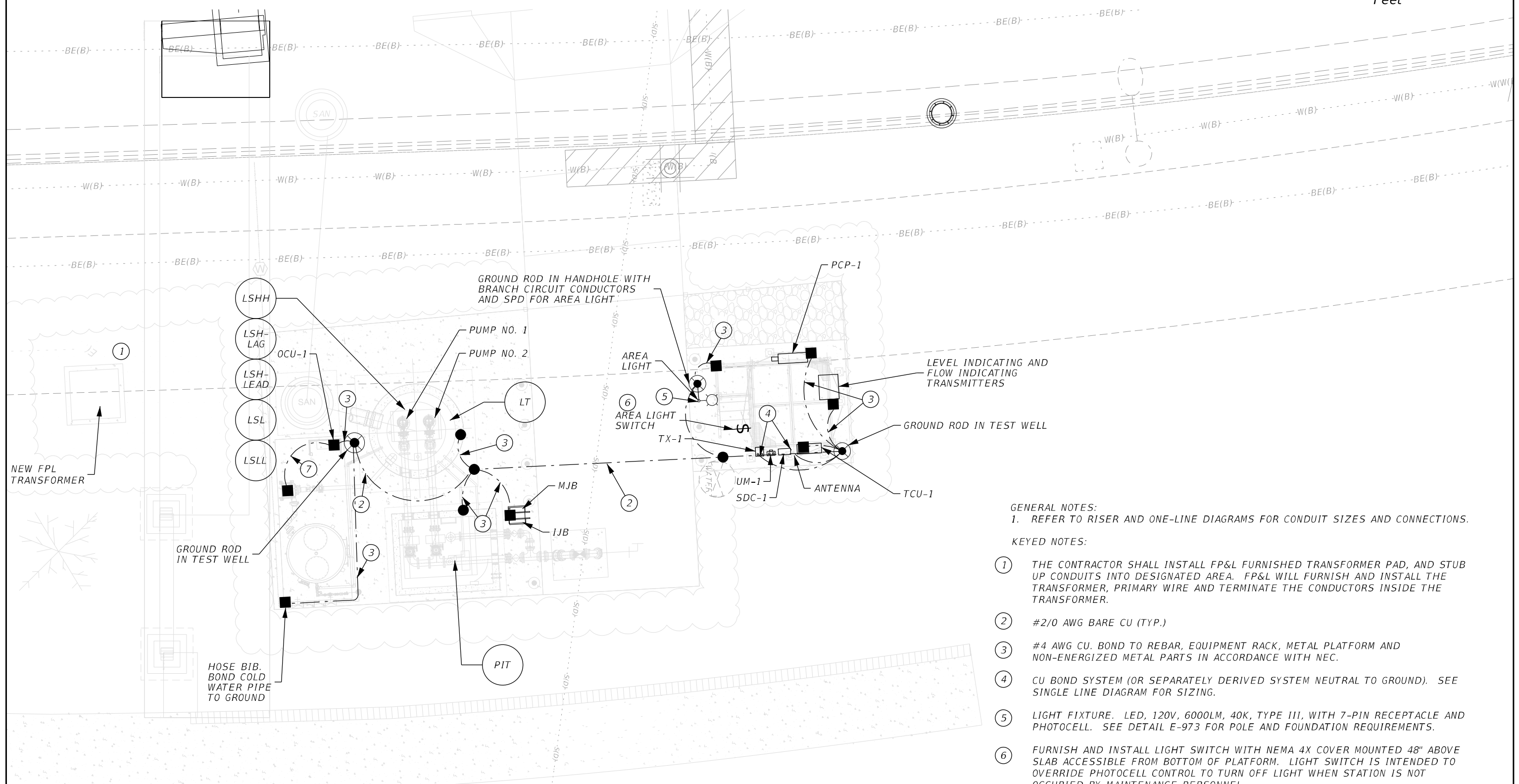
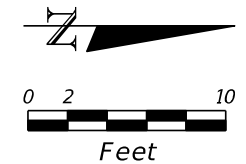
KEYED NOTES:

- ① THE CONTRACTOR SHALL INSTALL TWO (2) 5" CONDUITS FROM THE EXISTING TRANSFORMER TO THE NEW TRANSFORMER LOCATION. FP&L WILL FURNISH, INSTALL AND TERMINATE THE PRIMARY CONDUCTORS. FP&L WILL FURNISH THE CONDUIT FOR THE CONTRACTOR TO INSTALL. CONDUIT SHALL BE ENCASED IN CONCRETE PER FP&L STANDARDS.
- ② THE CONTRACTOR SHALL INSTALL FP&L FURNISHED TRANSFORMER PAD, AND STUB UP CONDUITS INTO DESIGNATED AREA. FP&L WILL FURNISH AND INSTALL THE TRANSFORMER, PRIMARY WIRE AND TERMINATE THE CONDUCTORS INSIDE THE TRANSFORMER.

GENERAL NOTES:
 1. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRICAL RACEWAY FOR THE ELECTRICAL UTILITY PRIMARY TO THE NEW TRANSFORMER LOCATION. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT (FP&L) FOR THE REQUIREMENTS. CURRENT PROJECT MANAGER PATRICIA NISTAL GONDAT; OFFICE: 305-377-6003; CELL: 305-510-6518; EMAIL: patricia.nistalgondat@fpl.com.
 2. THE PRIMARY CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH FP&L UNDERGROUND DISTRIBUTION STANDARDS.
 3. AFTER INSTALLATION, THE CONTRACTOR SHALL RESTORE FINISHED GRADE, LANDSCAPING, PAVEMENT THAT WAS AFFECTED TO ORIGINAL CONDITIONS.

REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SEWER PS 25 ELECTRICAL SITE PLAN - III	SHEET NO. PS-41
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

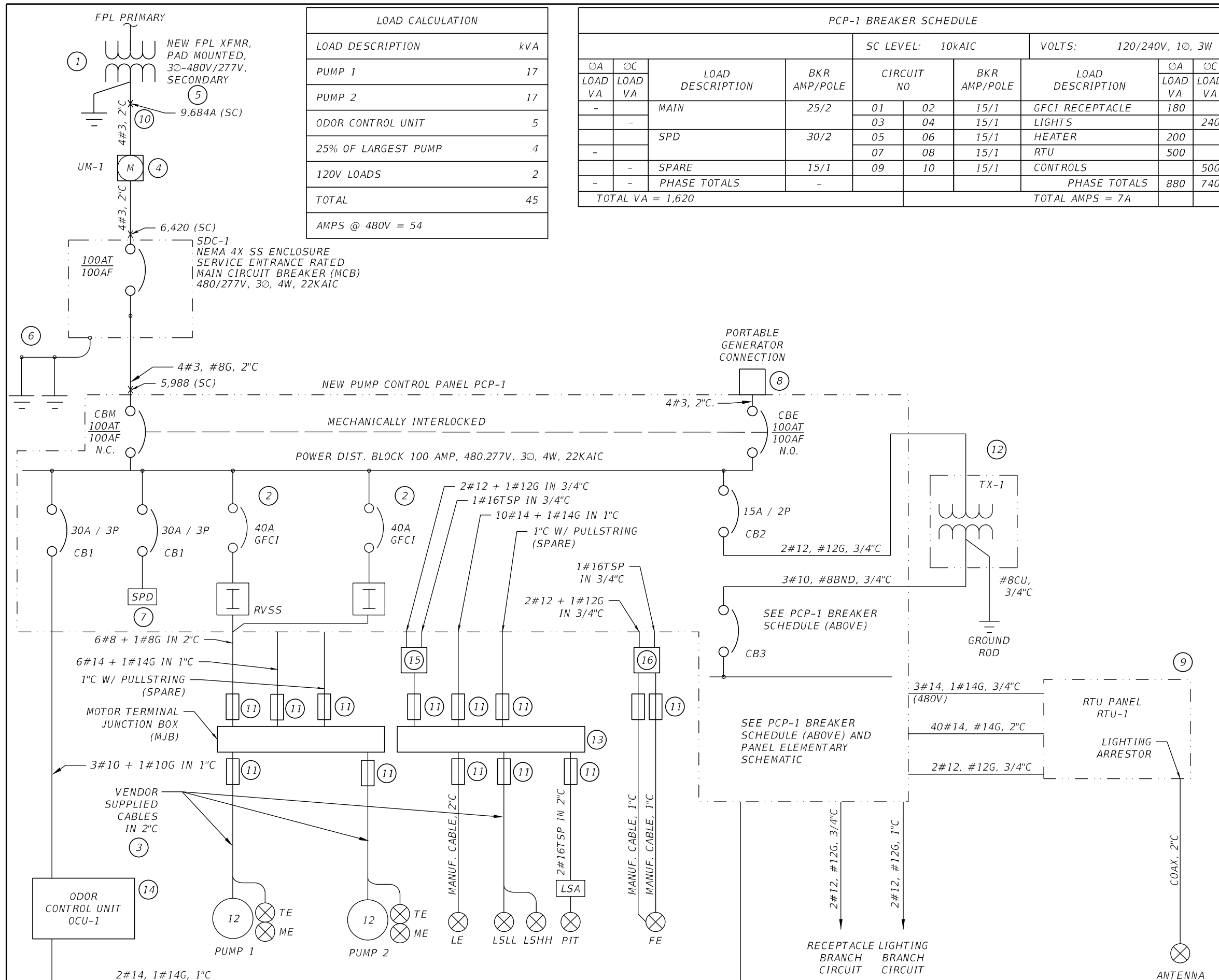
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- GENERAL NOTES:
 1. REFER TO RISER AND ONE-LINE DIAGRAMS FOR CONDUIT SIZES AND CONNECTIONS.
- KEYED NOTES:
- ① THE CONTRACTOR SHALL INSTALL FP&L FURNISHED TRANSFORMER PAD, AND STUB UP CONDUITS INTO DESIGNATED AREA. FP&L WILL FURNISH AND INSTALL THE TRANSFORMER, PRIMARY WIRE AND TERMINATE THE CONDUCTORS INSIDE THE TRANSFORMER.
 - ② #2/0 AWG BARE CU (TYP.)
 - ③ #4 AWG CU. BOND TO REBAR, EQUIPMENT RACK, METAL PLATFORM AND NON-ENERGIZED METAL PARTS IN ACCORDANCE WITH NEC.
 - ④ CU BOND SYSTEM (OR SEPARATELY DERIVED SYSTEM NEUTRAL TO GROUND). SEE SINGLE LINE DIAGRAM FOR SIZING.
 - ⑤ LIGHT FIXTURE. LED, 120V, 6000LM, 40K, TYPE III, WITH 7-PIN RECEPTACLE AND PHOTOCELL. SEE DETAIL E-973 FOR POLE AND FOUNDATION REQUIREMENTS.
 - ⑥ FURNISH AND INSTALL LIGHT SWITCH WITH NEMA 4X COVER MOUNTED 48" ABOVE SLAB ACCESSIBLE FROM BOTTOM OF PLATFORM. LIGHT SWITCH IS INTENDED TO OVERRIDE PHOTOCELL CONTROL TO TURN OFF LIGHT WHEN STATION IS NOT OCCUPIED BY MAINTENANCE PERSONNEL.
 - ⑦ GROUND ODOR CONTROL UNIT (OCU) IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-42
					SR 907	MIAMI-DADE	429193-1-56-01		

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LOAD CALCULATION	
LOAD DESCRIPTION	kVA
PUMP 1	17
PUMP 2	17
ODOR CONTROL UNIT	5
25% OF LARGEST PUMP	4
120V LOADS	2
TOTAL	45
AMPS @ 480V = 54	

PCP-1 BREAKER SCHEDULE												
				SC LEVEL: 10kAIC		VOLTS: 120/240V, 1Ø, 3W						
ØA	ØC	LOAD DESCRIPTION	BKR AMP/POLE	CIRCUIT NO		BKR AMP/POLE	LOAD DESCRIPTION	ØA	ØC			
LOAD VA	LOAD VA							LOAD VA	LOAD VA			
-	-	MAIN	25/2	01	02	15/1	GFCI RECEPTACLE	180				
				03	04					15/1	LIGHTS	240
				05	06							
		SPD	30/2	07	08	15/1	HEATER	200				
				09	10					15/1	RTU	500
-	-	SPARE	15/1						500			
-	-	PHASE TOTALS	-				PHASE TOTALS	880	740			
TOTAL VA = 1,620							TOTAL AMPS = 7A					

- GENERAL NOTES:**
1. PROVIDE PERMANENTLY INSTALLED LOCKING DEVICES FOR ALL DISCONNECTING DEVICES TO MOTORS.
 2. SEE SCHEMATICS AND RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.

- KEY NOTES:**
1. UTILITY CONTACT:
NAME: PATRICIA NISTAL
FLORIDA POWER AND LIGHT PHONE NUMBER:
(305) 510-6518
 2. PROVIDE PERMANENTLY INSTALLED LOCKING DEVICE PER NEC 430.102(B) EXCEPTION.
 3. SUBMERSIBLE CABLES.
 4. CONTRACTOR TO FURNISH AND INSTALL METER CABINET PER FPL STANDARDS. FPL TO FURNISH AND INSTALL METER.
 5. 9,684A AVAILABLE FAULT CURRENT PER FLORIDA POWER AND LIGHT ON 2/1/2024. SEE LETTER ON PS-44.
 6. PROVIDE MIN. TWO (2) 5/8"X10' COPPER-CLAD GROUND RODS EXOTHERMICALLY CONNECTED VIA A #6 GROUNDING ELECTRODE CONDUCTOR TO THE SERVICE ENTRANCE RATED MCB. ADD ADDITIONAL GROUND RODS AS NECESSARY SO RESISTANCE TO GROUND IS LESS THAN 25. FURNISH AND INSTALL GROUNDING ELECTRODE CONDUCTOR & OTHER EQUIPMENT/MATERIALS IN ACCORDANCE WITH THE NEC.
 7. SPD WITH SURGE CAPACITOR. REFER TO SPECIFICATIONS.
 8. GENERATOR CONNECTION RECEPTACLE IN ACCORDANCE WITH THE CITY OF MIAMI BEACH FOR RECEPTACLE PORT AND PINNING. APPLETON AR40044RS 400A 4W4P.
 9. THE CONTRACTOR SHALL FURNISH AND INSTALL THE RTU PANEL, ANTENNA, AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER AND IN ACCORDANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS.
 10. CONTRACTOR TO INSTALL NEW UNDERGROUND CONDUITS AND CONDUCTORS FROM FPL TRANSFORMER TO NEW FPL METER LOCATION INCLUDING NEW TRENCHING.
 11. PROVIDE EYS TYPE SEALING FITTINGS FOR ALL CONDUITS ENTERING PCP, RTU, OR JUNCTION BOXES FROM AREAS RATED CLASS 1 DIV. 1 OR CLASS 1 DIV. 2 (TYP).
 12. CONTRACTOR SHALL INSTALL 5KVA, 480:120/240V, 1Ø, TRANSFORMER IN NEMA 4X S.S. ENCLOSURE TO MANUFACTURER.
 13. INCLUDE A MAINTENANCE FREE DIAPHRAGM IN INSTRUMENT JUNCTION BOX FOR TERMINATING THE LEVEL TRANSMITTER REFERENCE TUBE.
 14. PROVIDE ALARM FROM HIGH LEVEL FLOAT TO OCU-1, OCU-1 TO SHUT DOWN UPON ACTIVATION.
 15. LEVEL INDICATING TRANSMITTER
 16. FLOW INDICATING TRANSMITTER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STANTEC CONSULTING SERVICES INC.
BRADLEY C. BUCHANAN, P.E.
P.E. License No. 86225
901 Ponce de Leon Blvd., Suite 900
Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

**SEWER PS 25
ELECTRICAL
SINGLE LINE DIAGRAM**

SHEET NO. PS-43

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



February 1, 2024

Marlon Medina
901 Ponce de Leon Blvd Suite 900
Coral Gables, FL 33134

Available Fault Current for Future transformer at Alton Rd Pump Station #25

Dear Marlon Medina:

Thank you for contacting FPL about the available fault current at X. Based on the plans you have provided dated X, the maximum available fault current at the transformer secondary terminals is estimated to be 9864 symmetrical amperes at 277/480 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 15 amp type KS fuse. The primary service voltage is 13.2kV L-L. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,

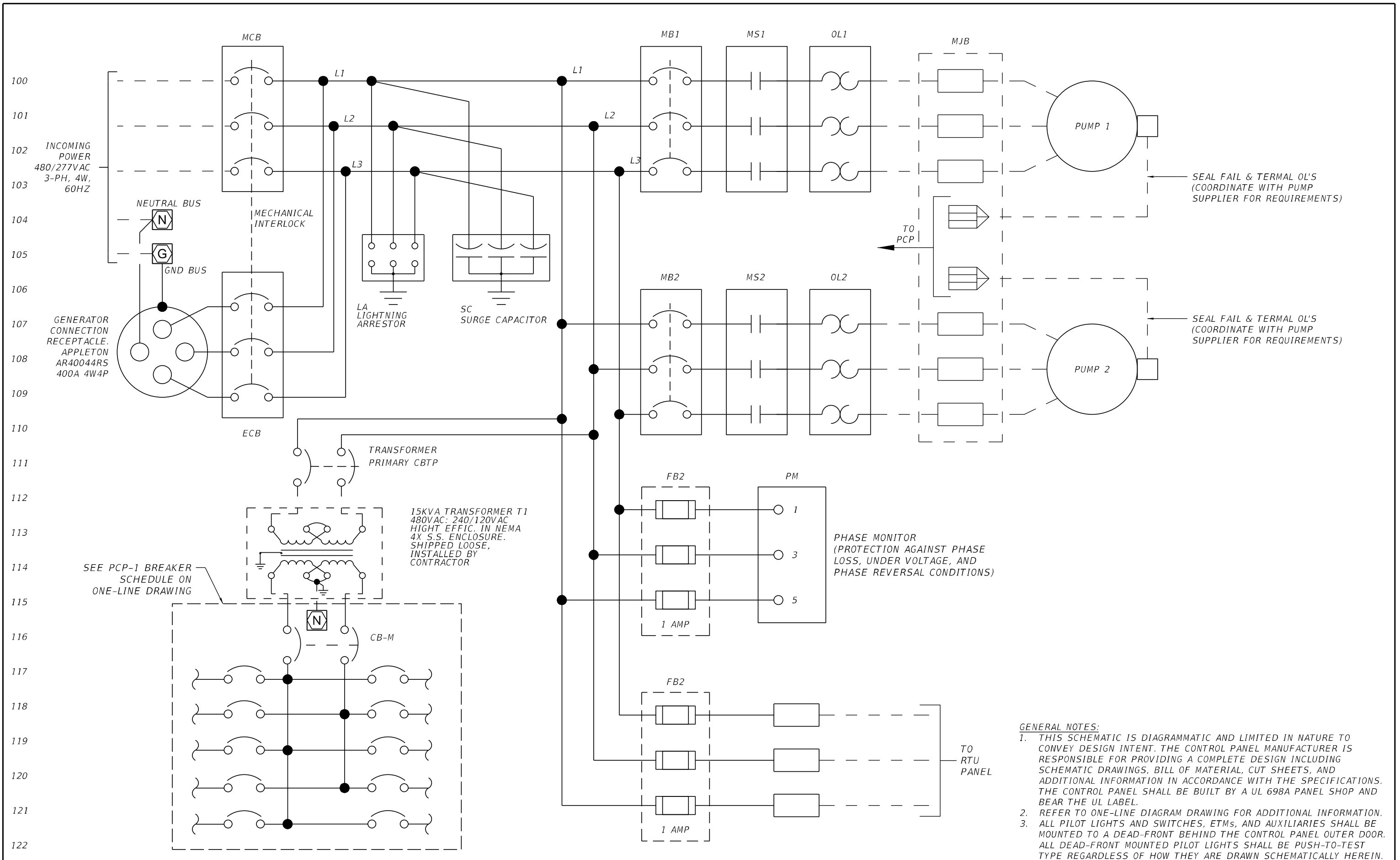
Patricia Nistal

Patricia Nistal
Distribution Engineer

NOTES:

1. THE CONTRACTOR SHALL REQUEST FP&L TO RE-ISSUE FAULT CURRENT LETTER AFTER PROCUREMENT/INSTALLATION OF THE TRANSFORMER.
2. THE CONTRACTOR SHALL PERFORM A SHORT CIRCUIT CURRENT STUDY AND ARC FLASH HAZARD ANALYSIS CALCULATION. THE RESULTS SHALL BE USED TO GENERATE ARC FLASH HAZARD LABELS WHICH ARE TO BE PRINTED ON WEATHER AND UV RESISTANT ADHESIVE MATERIAL AND AFFIXED TO THE DISCONNECT, AND PCP. THE ARC FLASH LABEL FOR THE PCP SHALL BE ON BOTH THE OUTER DOOR AND INNER DEAD FRONT DOOR.
3. THE ARC FLASH HAZARD LABEL SHALL CONTAIN THE FOLLOWING PRIMARY ELEMENTS:
 - A. DANGER OR WARNING HEADER
 - B. WORKING DISTANCE (18") AND ARC ENERGY AT THE DISTANCE
 - C. ARC FLASH BOUNDARY
 - D. PERSONAL PROTECTIVE EQUIPMENT
 - E. LIMITED APPROACH AND RESICTRICTED APPROACH BOUNDARIES
 - F. SHOCK RISH WHEN COVER REMOVED (VOLTAGE).

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 907	MIAMI-DADE		429193-1-56-01



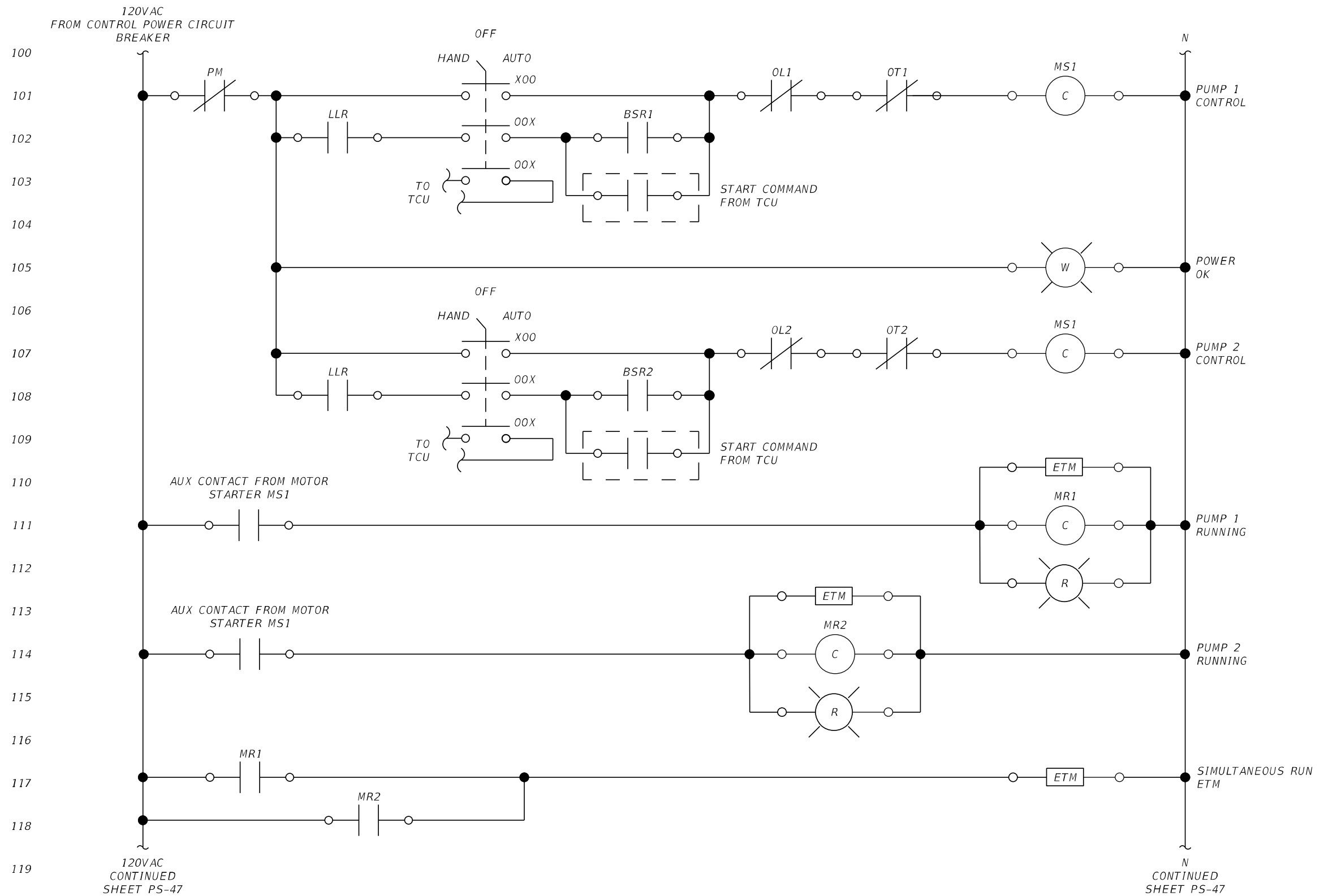
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GENERAL NOTES:

1. THIS SCHEMATIC IS DIAGRAMMATIC AND LIMITED IN NATURE TO CONVEY DESIGN INTENT. THE CONTROL PANEL MANUFACTURER IS RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN INCLUDING SCHEMATIC DRAWINGS, BILL OF MATERIAL, CUT SHEETS, AND ADDITIONAL INFORMATION IN ACCORDANCE WITH THE SPECIFICATIONS. THE CONTROL PANEL SHALL BE BUILT BY A UL 698A PANEL SHOP AND BEAR THE UL LABEL.
2. REFER TO ONE-LINE DIAGRAM DRAWING FOR ADDITIONAL INFORMATION.
3. ALL PILOT LIGHTS AND SWITCHES, ETMS, AND AUXILIARIES SHALL BE MOUNTED TO A DEAD-FRONT BEHIND THE CONTROL PANEL OUTER DOOR. ALL DEAD-FRONT MOUNTED PILOT LIGHTS SHALL BE PUSH-TO-TEST TYPE REGARDLESS OF HOW THEY ARE DRAWN SCHEMATICALLY HEREIN.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 BRADLEY C. BUCHANAN, P.E.
 P.E. License No. 86225
 901 Ponce de Leon Blvd., Suite 900
 Coral Gables, Florida 33134 (305) 445-2900

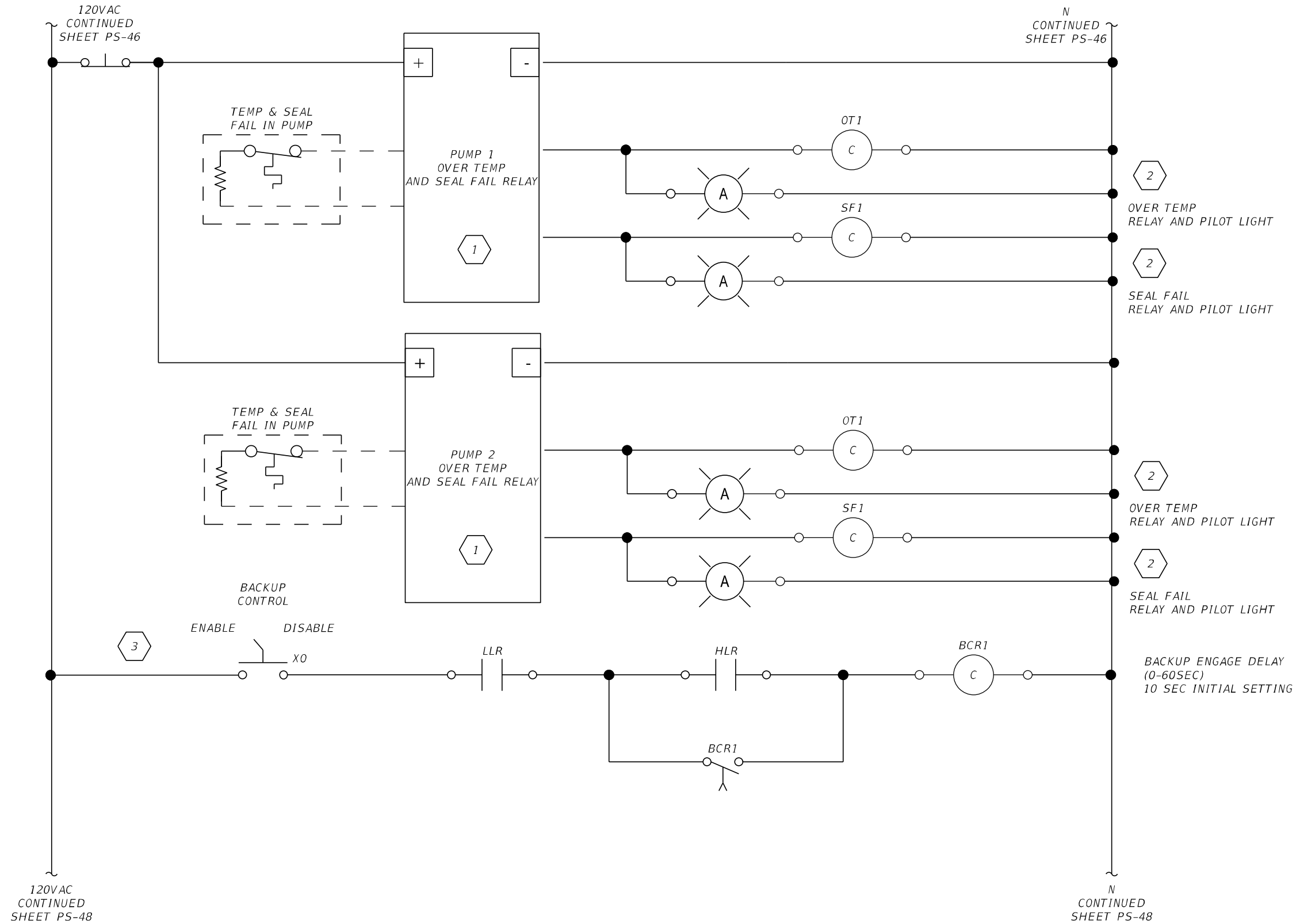
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

SEWER PS 25
 ELECTRICAL
 CONTROL PANEL SCHEMATIC - II

SHEET NO.
 PS-46

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

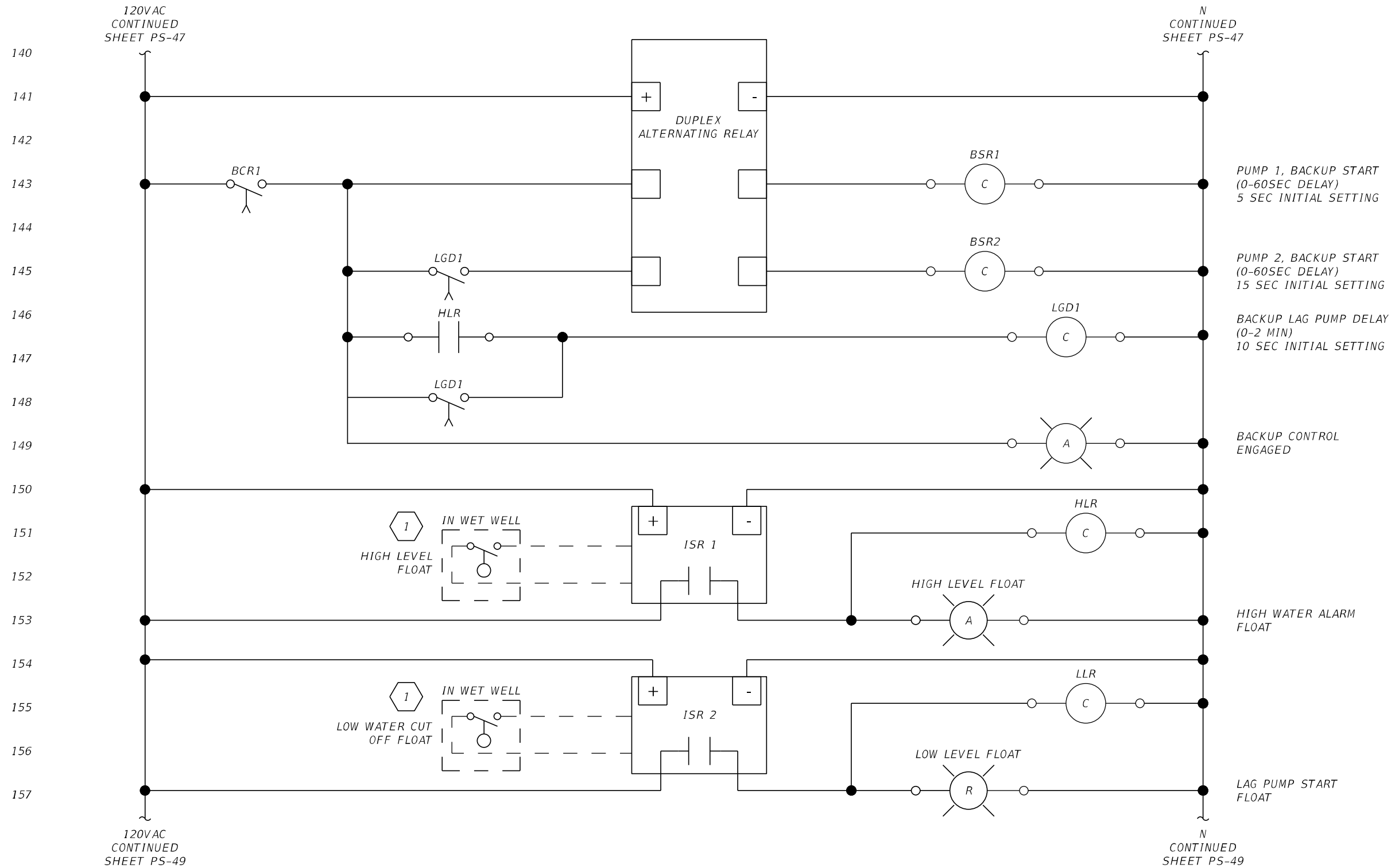
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- KEYED NOTES:**
1. OVER-TEMP AND SEAL FAIL DETECTION AS REQUIRED BY PUMP MANUFACTURER.
 2. SEPARATE PILOT LIGHTS ARE NOT REQUIRED IF THEY ARE INTEGRAL TO A PUMP PROTECTION RELAY MOUNTED ON THE CONTROL PANEL INNER DOOR.
 3. THE BACKUP PUMP CONTROL SHALL WORK AS FOLLOWS:
 - 3.1. INITIAL BACKUP CONTROL IS PROVIDED BY TCU USING FLOAT SWITCHES.
 - 3.2. LOCAL BACKUP CONTROL IS ENGAGED WHEN WATER LEVEL REACHES THE HIGH LEVEL ALARM FLOAT. AN ALTERNATING RELAY WILL START THE LEAD PUMP.
 - 3.3. AFTER TIME DELAY IF LEVEL STILL EXCEEDS HIGH LEVEL FLOAT, THE LAG PUMP WILL BE CALLED TO RUN.
 - 3.4. PUMP(S) WILL CONTINUE TO RUN UNTIL LEVEL DROPS BELOW THE PUMPS OFF FLOAT.
 - 3.5. AFTER PUMPS STOP, THE ALTERNATING RELAY WILL ROTATE LEAD AND LAG PUMPS.

REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SEWER PS 25 ELECTRICAL CONTROL PANEL SCHEMATIC - III	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-47
					SR 907	MIAMI-DADE	429193-1-56-01		

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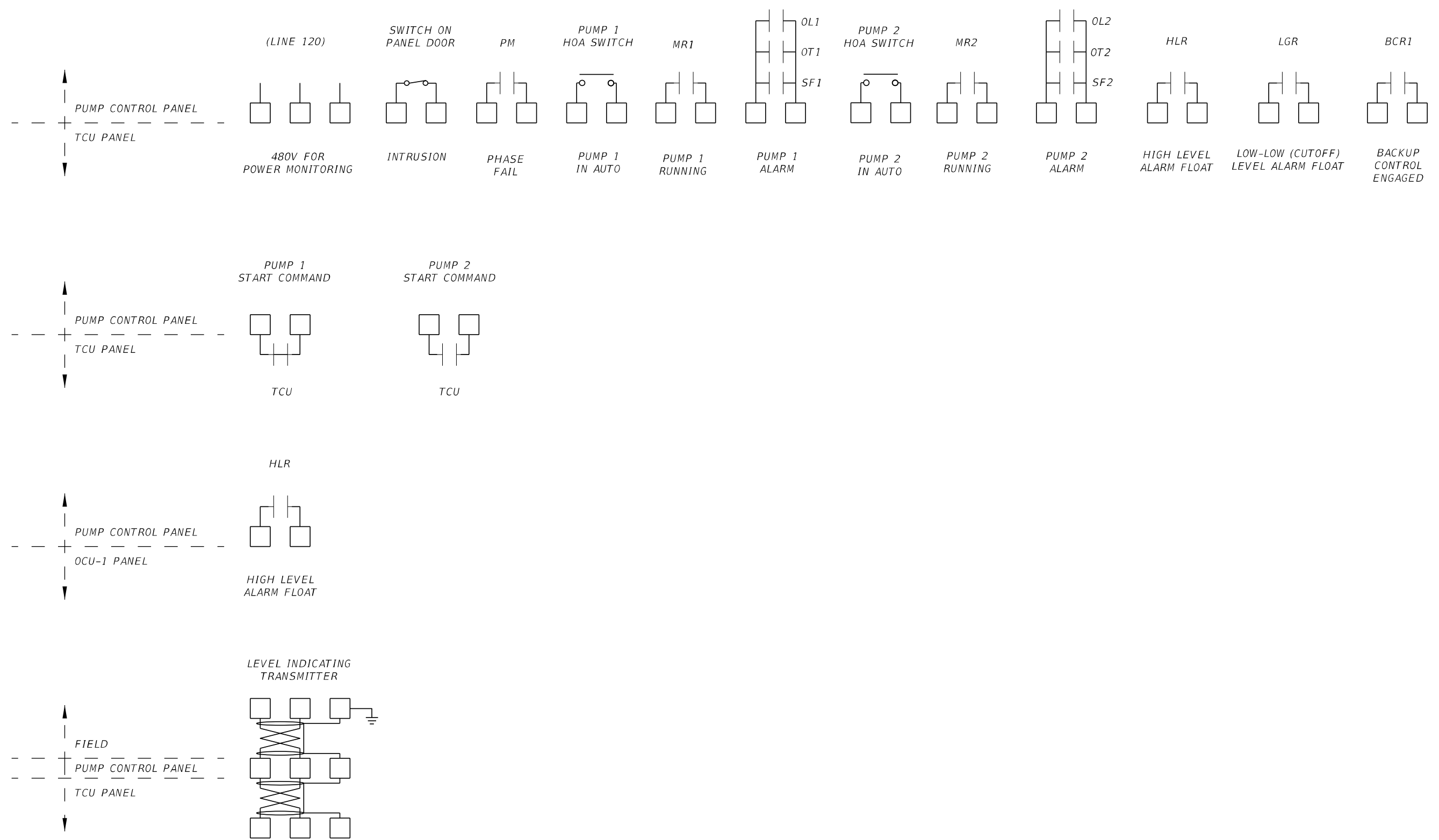
KEYED NOTES:

1. INTRINSICALLY SAFE CIRCUIT. INSTALLATION SHALL BE IN ACCORDANCE WITH NEC ARTICLE 504.

REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SEWER PS 25 ELECTRICAL CONTROL PANEL SCHEMATIC - IV	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		PS-48
					SR 907	MIAMI-DADE	429193-1-56-01		

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 907	MIAMI-DADE		429193-1-56-01



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

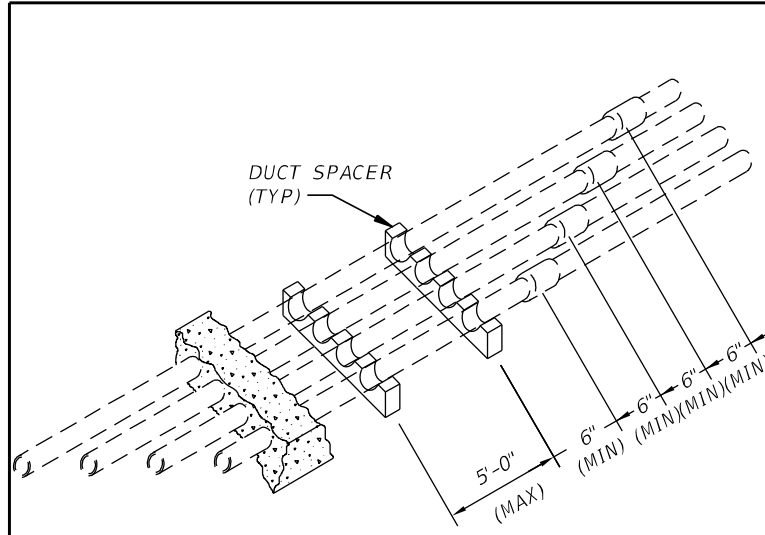
STANTEC CONSULTING SERVICES INC.
 BRADLEY C. BUCHANAN, P.E.
 P.E. License No. 86225
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 Coral Gables, Florida 33134 (305)-445-2900

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

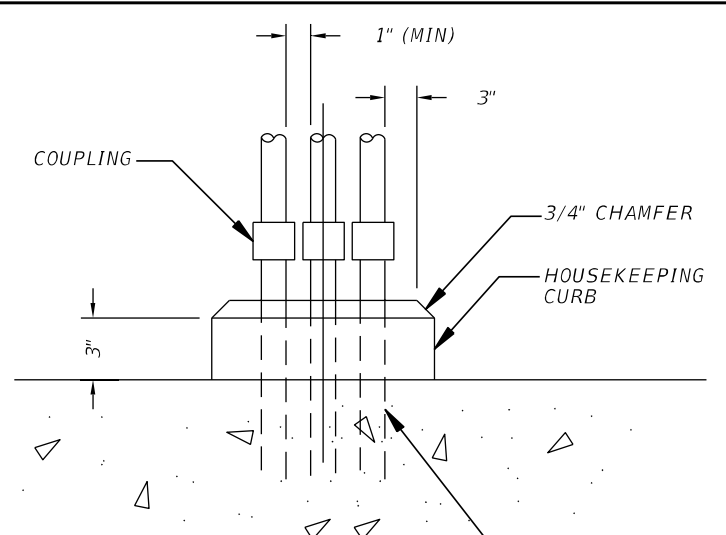
**SEWER PS 25
ELECTRICAL
CONTROL PANEL SCHEMATIC - VI**

SHEET NO.
PS-50

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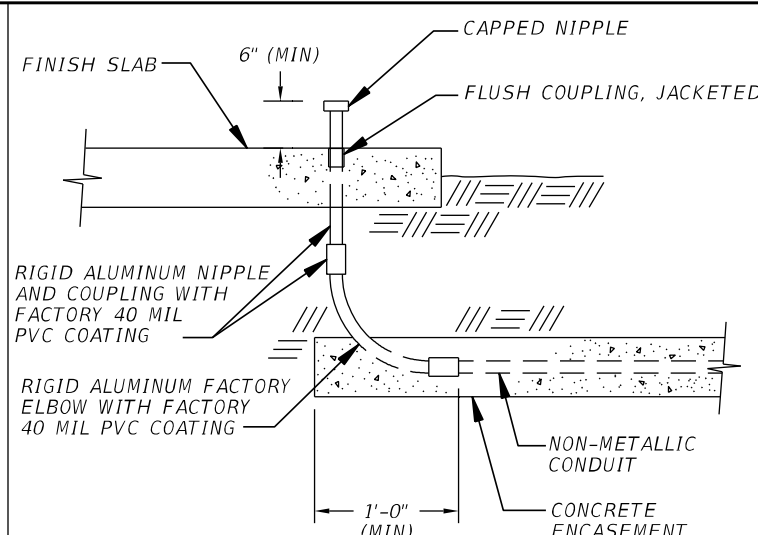


E-108 TYPICAL DUCTBANK JOINT/SUPPORT SPACING

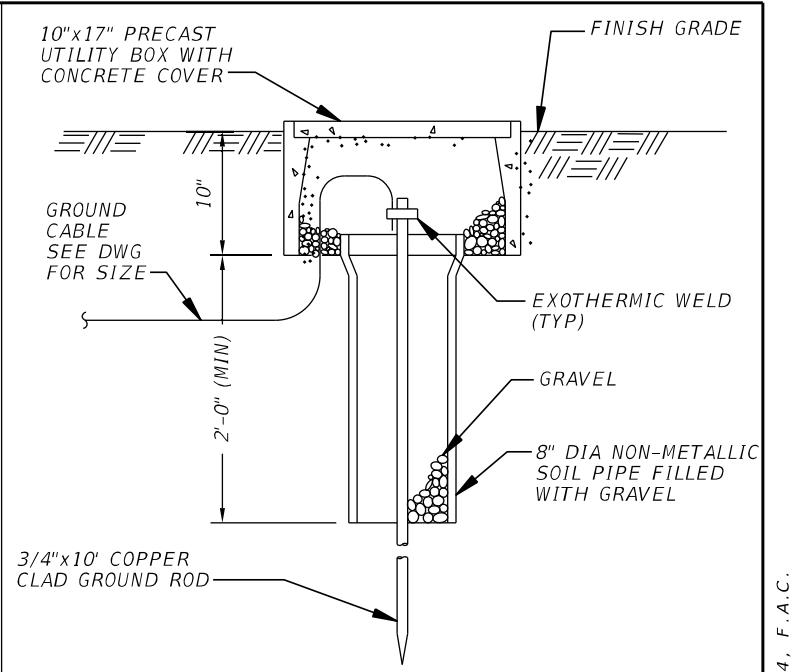


NOTE:
HOUSEKEEPING CURB REQUIRED AT ALL LOCATIONS FOR SINGLE AND MULTIPLE RISERS.

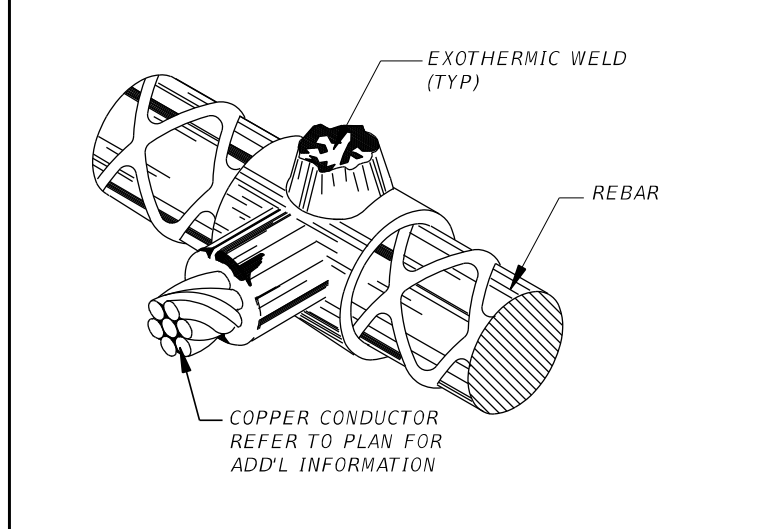
E-203 CONCRETE HOUSEKEEPING CURB NON-HAZARDOUS LOCATIONS



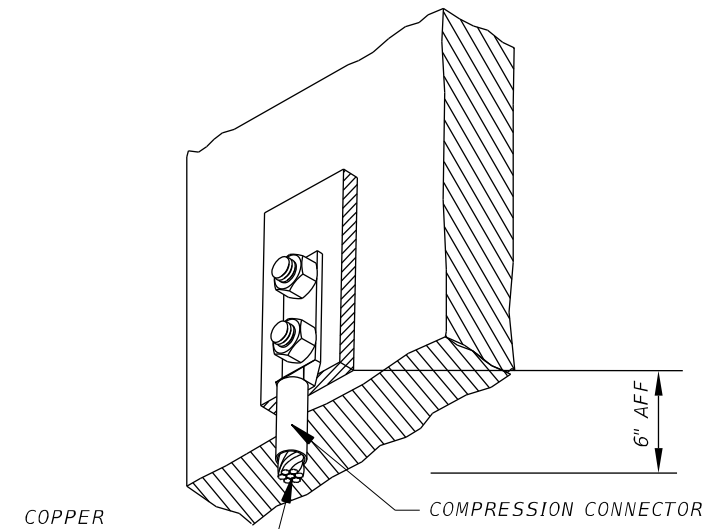
E-205 RISER FROM NON-METALLIC DUCT



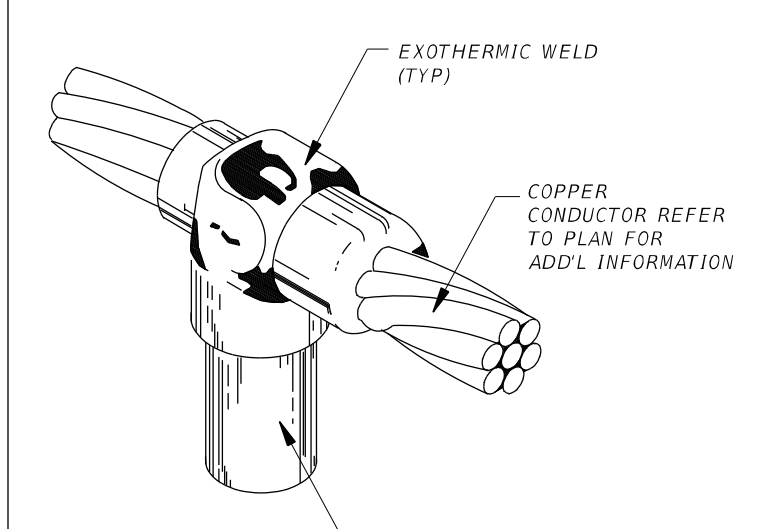
E-303 GROUND ROD AND WELL



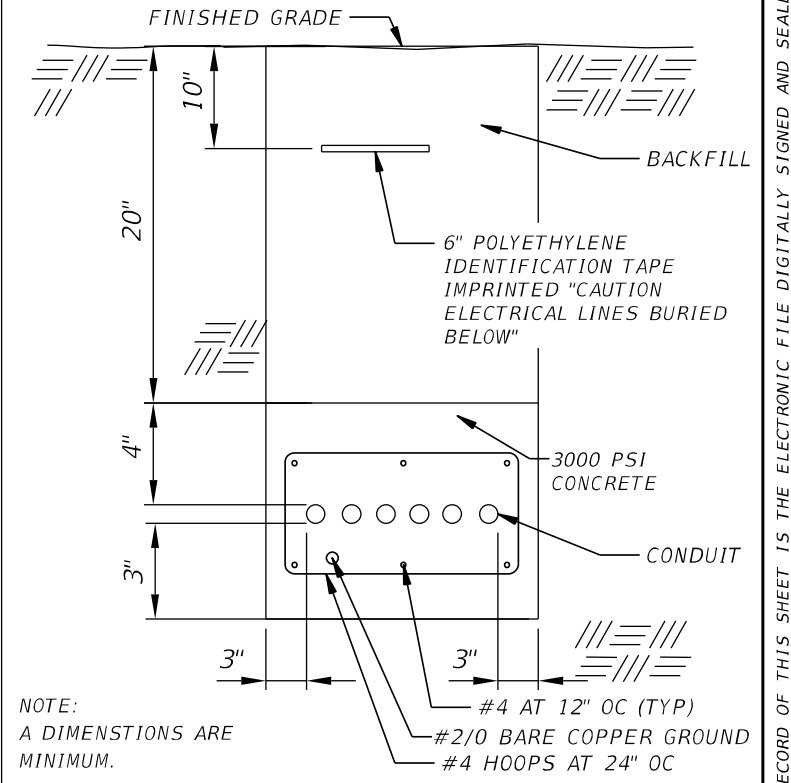
E-914 GROUNDING AT REBAR CONNECTION



E-916 GROUNDING AT STEEL PLATE CONNECTION



E-919 GROUNDING AT GROUND ROD CONNECTION



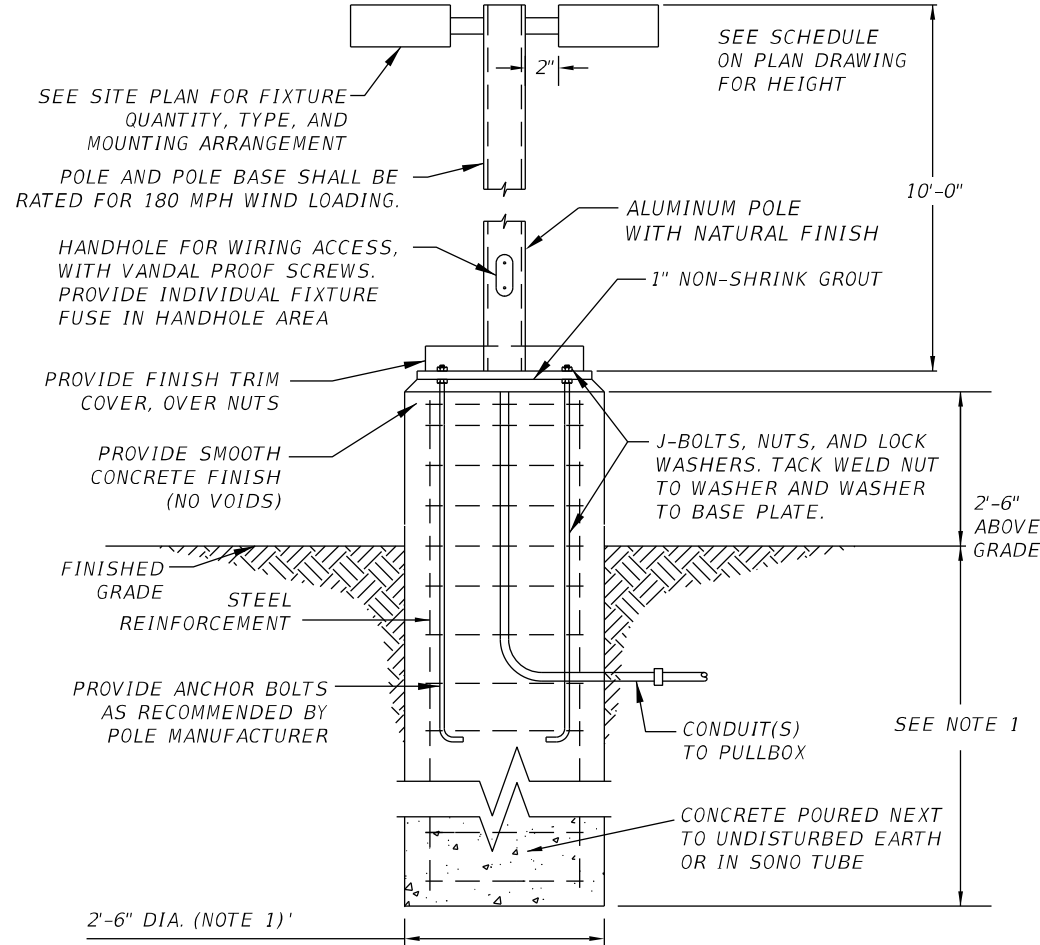
NOTE:
A DIMENSIONS ARE MINIMUM.

E-935 CONCRETE ENCASED CONDUIT (TYPICAL TRENCH SECTION)

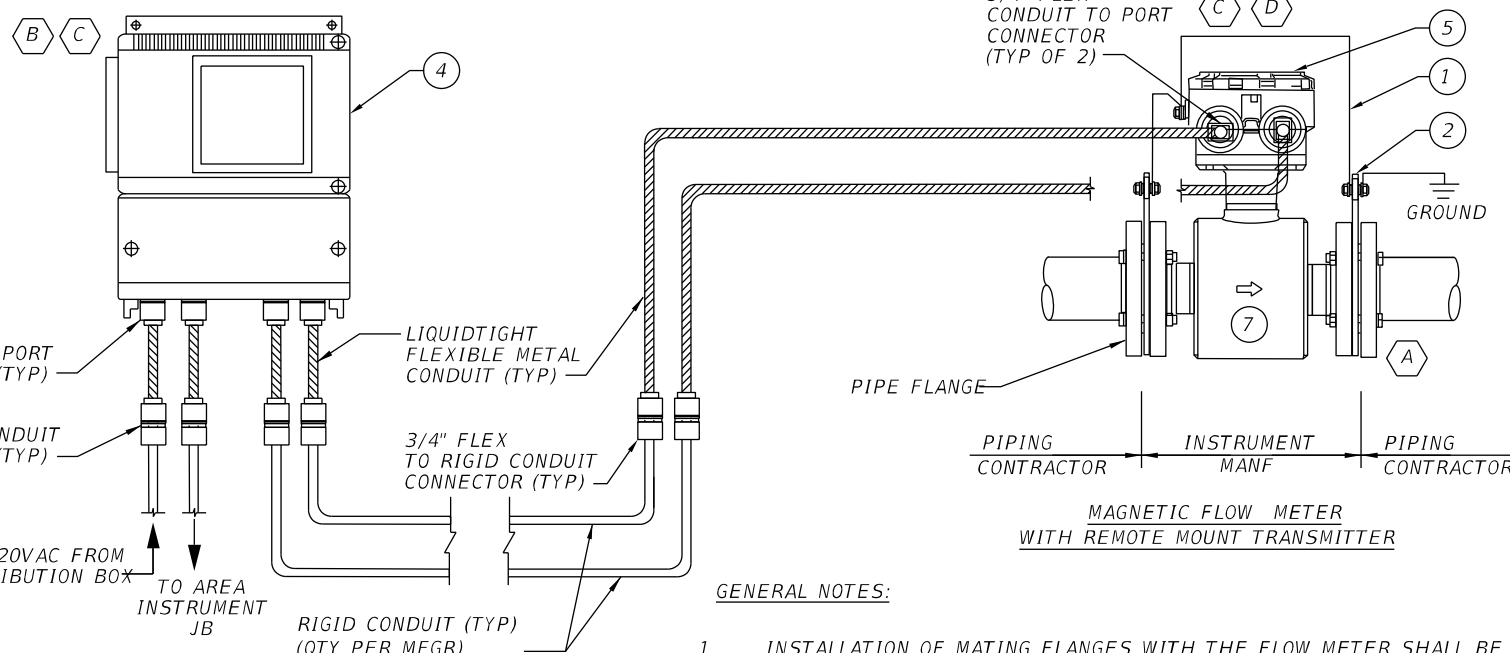
REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. PS-51
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 907	MIAMI-DADE	429193-1-56-01	

NOTES:

1. PROVIDE SHOP DRAWINGS SEALED BY A STRUCTURAL PROFESSIONAL ENGINEER LICENSED IN FLORIDA FOR THE LIGHT POLE BASE.
2. FURNISH AND INSTALL PULLBOX WITH GROUND ROD, SURGE PROTECTION, AND BREAKAWAY CONNECTOR FOR EACH LIGHT POLE. USE REMOVABLE WATERTIGHT SPLICES AS REQUIRED, RAYCHEM GELCAP OR EQUAL.



LIGHT POLE DETAIL



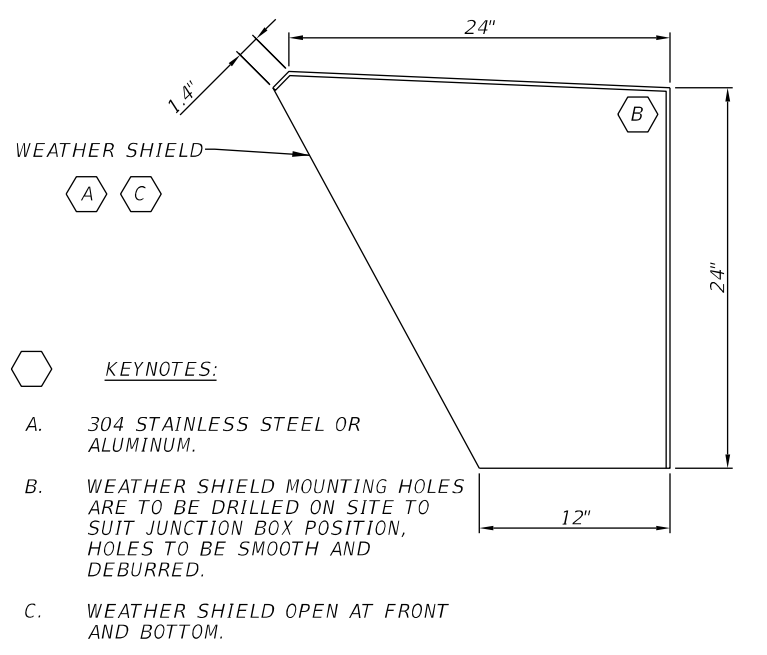
BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	1	AWG # 8 GROUNDING CONDUCTOR TO GROUND GRID
2	2	GROUNDING RING
3	1	REMOTE TRANSMITTER WITH DISPLAY
4	1	METER REMOTE WIRE HOUSING FOR REMOTE TRANSMITTER WITH DUAL CONDUIT PORTS
5	-	METER MEASURING TUBE / FLANGES (LINER PER MANF RECOMMENDATION)

GENERAL NOTES:

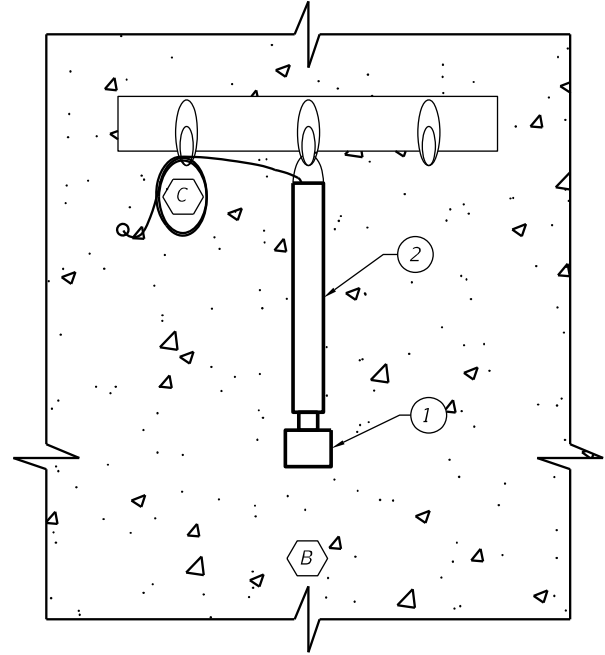
1. INSTALLATION OF MATING FLANGES WITH THE FLOW METER SHALL BE CARRIED OUT IN COOPERATION WITH THE PIPING CONTRACTOR USING UPSTREAM AND DOWNSTREAM PIPE REDUCERS AS NECESSARY.
- KEYNOTES:**
- A. GROUNDING RINGS REQUIRED FOR METALLIC AND NON-METALLIC PIPE INSTALLATIONS TO SUPPORT PROPER SOLUTION GROUNDING AND / OR LINING PROTECTION.
 - B. WALL OR INSTRUMENT-STAND MOUNT PER DETAIL I-948.
 - C. CONFIGURE FOR EMPTY PIPE DETECTION.
 - D. WHERE TEMPORARY SUBMERGENCE IS POSSIBLE, ELECTRONIC HOUSING SHALL BE POTTED AND SEALED BY MANUFACTURER PRIOR TO SHIPPING TO SITE.

MAGNETIC FLOW METER



INSTRUMENT WEATHER SHIELD

- KEYNOTES:**
- A. 304 STAINLESS STEEL OR ALUMINUM.
 - B. WEATHER SHIELD MOUNTING HOLES ARE TO BE DRILLED ON SITE TO SUIT JUNCTION BOX POSITION, HOLES TO BE SMOOTH AND DEBURRED.
 - C. WEATHER SHIELD OPEN AT FRONT AND BOTTOM.



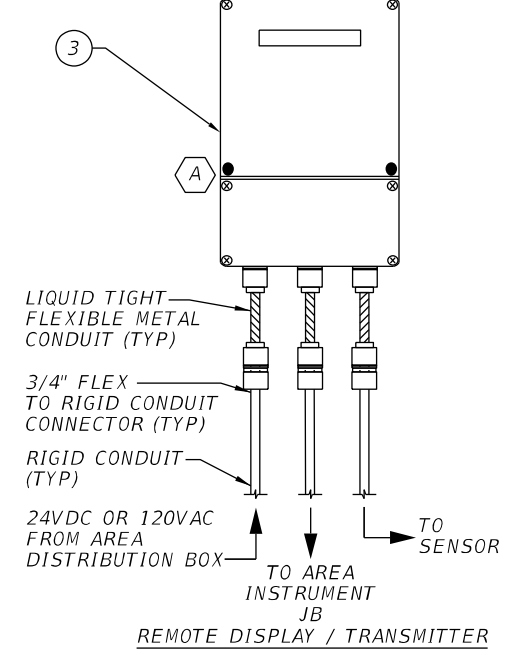
TRANSDUCER INSIDE WET-WELL

- KEYNOTES:**
- A. WALL OR INSTRUMENT STAND MOUNT PER ELEVATION DRAWING.
 - B. SENSOR SHALL BE INSTALLED SUCH THAT THE BEAM ANGLE DOES NOT ENCOUNTER ANY PHYSICAL DEVICE OR FLOW STREAM IN THE BEAM'S SENSING PATH.
 - C. MAINTENANCE LOOP SHALL INCLUDE 6FT LENGTH OF CABLE SECURED WITH SS TIE WRAPS, BEND RADIUS NO LESS THAN 8".

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
1	1	ULTRASONIC LEVEL SENSOR
2	1	24" STAINLESS STEEL PIPE WITH WELDED HOOK FOR HANGING AND THREADED END FOR TRANSDUCER
3	1	TRANSMITTER UNIT (REMOTE MOUNT)

ULTRASONIC LEVEL TRANSMITTER



REMOTE DISPLAY / TRANSMITTER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STANTEC CONSULTING SERVICES INC.
 BRADLEY C. BUCHANAN, P.E.
 P.E. License No. 86225
 901 Ponce de Leon Blvd., Suite 900
 Coral Gables, Florida 33134 (305) 445-2900

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

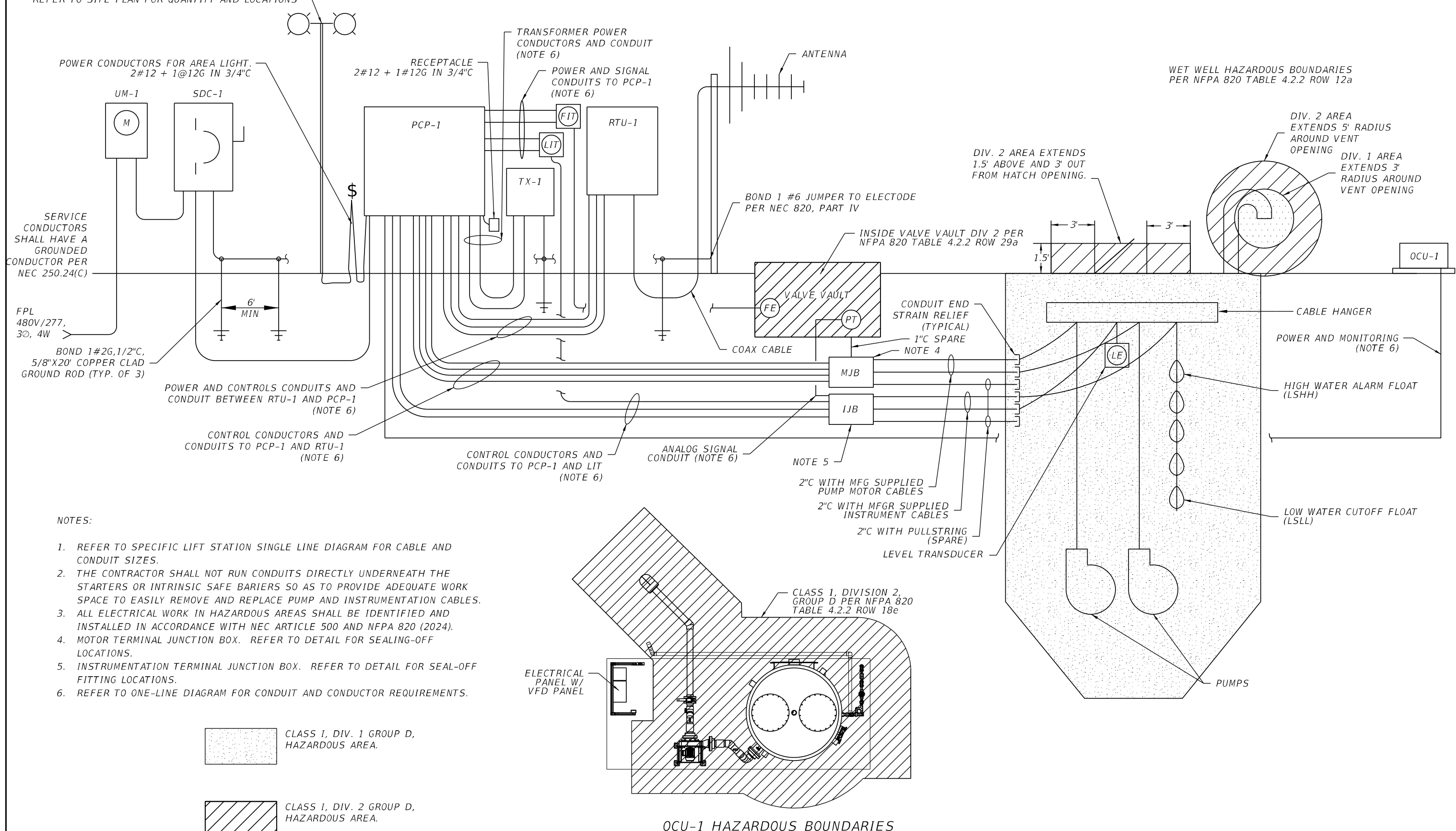
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-56-01

**SEWER PS 25
 ELECTRICAL
 DETAILS - II**

SHEET NO.
 PS-52

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REFER TO SITE PLAN FOR QUANTITY AND LOCATIONS



- NOTES:
1. REFER TO SPECIFIC LIFT STATION SINGLE LINE DIAGRAM FOR CABLE AND CONDUIT SIZES.
 2. THE CONTRACTOR SHALL NOT RUN CONDUITS DIRECTLY UNDERNEATH THE STARTERS OR INTRINSIC SAFE BARIERS SO AS TO PROVIDE ADEQUATE WORK SPACE TO EASILY REMOVE AND REPLACE PUMP AND INSTRUMENTATION CABLES.
 3. ALL ELECTRICAL WORK IN HAZARDOUS AREAS SHALL BE IDENTIFIED AND INSTALLED IN ACCORDANCE WITH NEC ARTICLE 500 AND NFPA 820 (2024).
 4. MOTOR TERMINAL JUNCTION BOX. REFER TO DETAIL FOR SEALING-OFF LOCATIONS.
 5. INSTRUMENTATION TERMINAL JUNCTION BOX. REFER TO DETAIL FOR SEAL-OFF FITTING LOCATIONS.
 6. REFER TO ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR REQUIREMENTS.

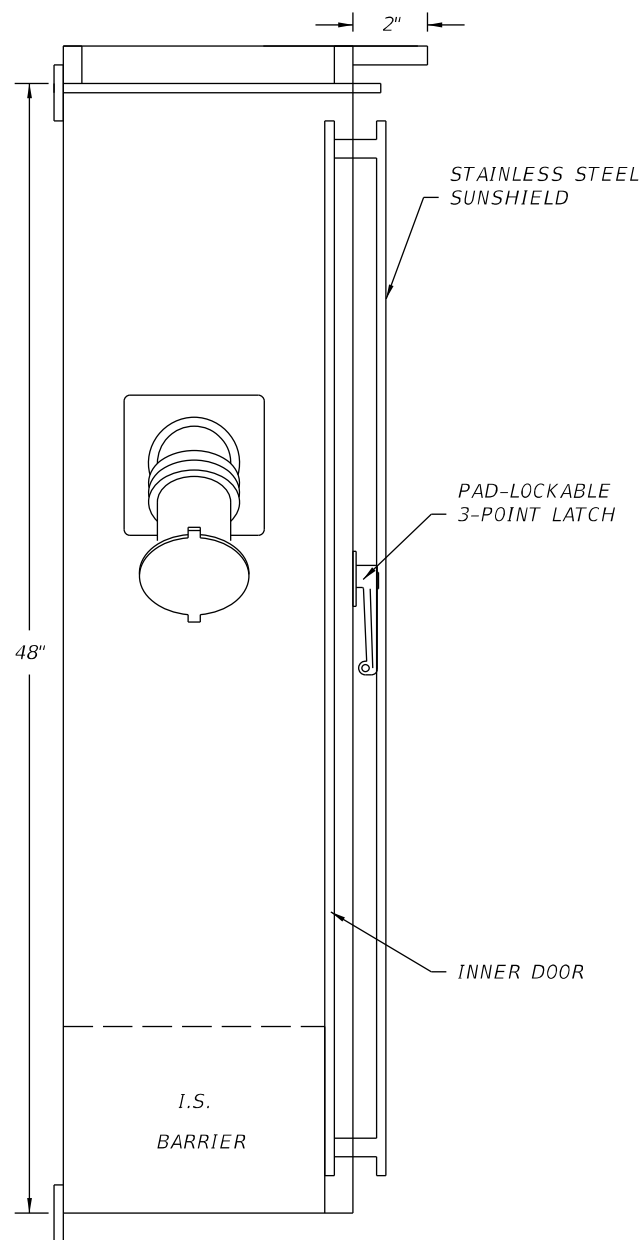
ELECTRICAL RISER DIAGRAM, CLASS 1, DIV. 1, GROUP D HAZARDOUS AREA

REVISIONS		STANTEC CONSULTING SERVICES INC.		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 907	MIAMI-DADE	429193-1-56-01	PS-53

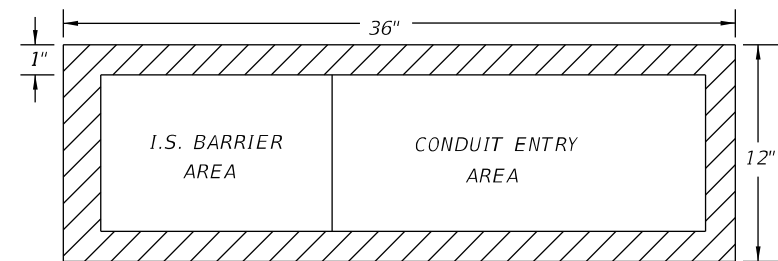
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEGEND

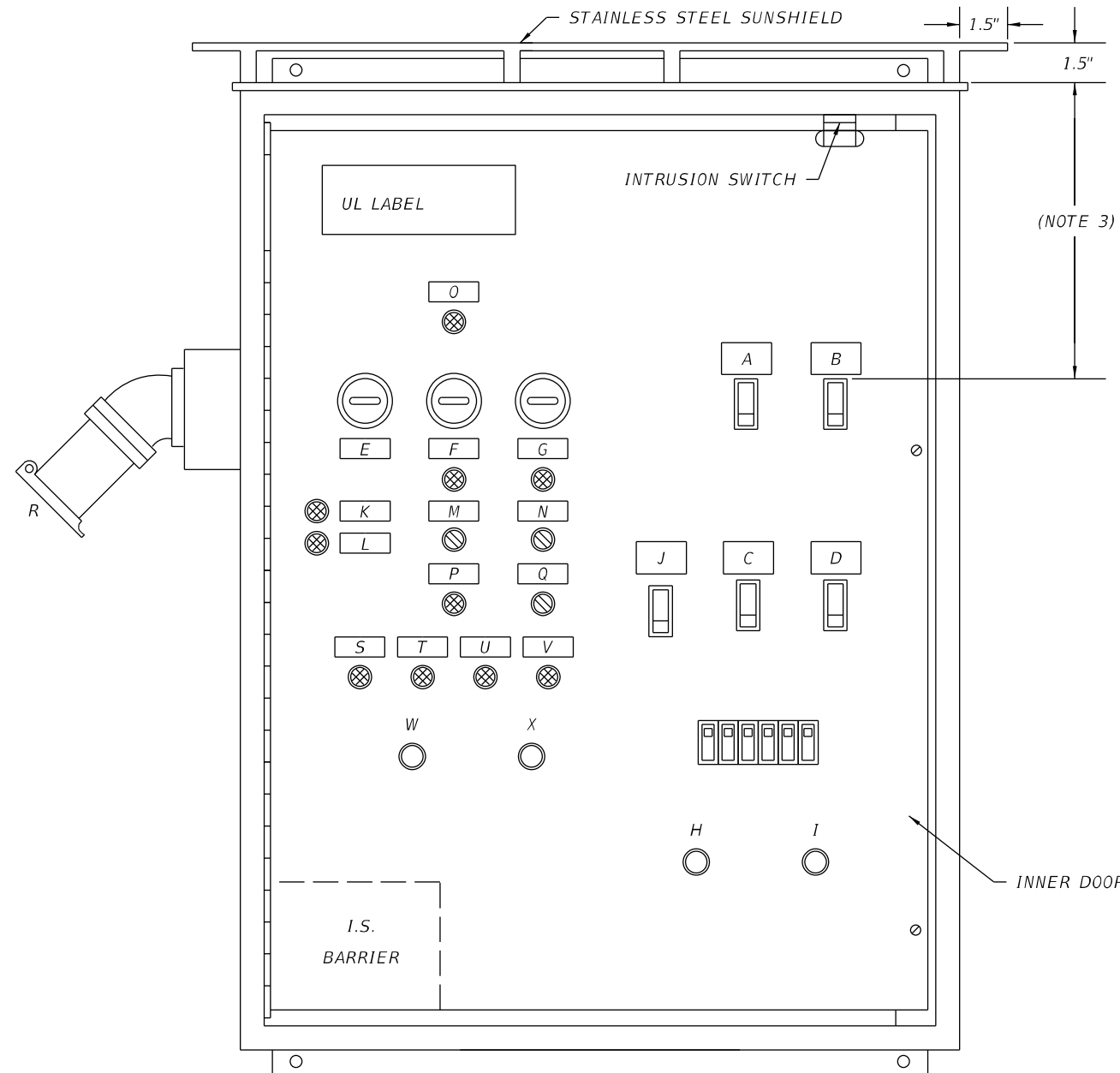
- A. MAIN POWER CIRCUIT BREAKER
- B. EMERGENCY POWER CIRCUIT BREAKER
- C. PUMP 1 CIRCUIT BREAKER
- D. PUMP 2 CIRCUIT BREAKER
- E. PUMP 1 RUNNING
- F. PUMP 2 RUNNING
- G. SIMULTANEOUS RUN
- H. PUMP 1 OVERLOAD RESET
- I. PUMP 2 OVERLOAD RESET
- J. L.P. MAIN CIRCUIT BREAKER
- K. HIGH WATER ALARM FLOAT
- L. LAG PUMP START FLOAT
- M. PUMP 1 HAND-OFF-AUTO
- N. PUMP 2 HAND-OFF-AUTO
- O. POWER OK
- P. BACKUP CONTROL ENGAGED
- Q. BACKUP CONTROL ENABLE-DISABLE
- R. EMERGENCY POWER RECEPTACLE
- S. PUMP 1 OT
- T. PUMP 2 OT
- U. PUMP 1 SEAL
- V. PUMP 2 SEAL
- W. PUMP 1 OT/SEAL RESET
- X. PUMP 2 OT/SEAL RESET



LEFT SIDE VIEW



BOTTOM VIEW



FRONT VIEW

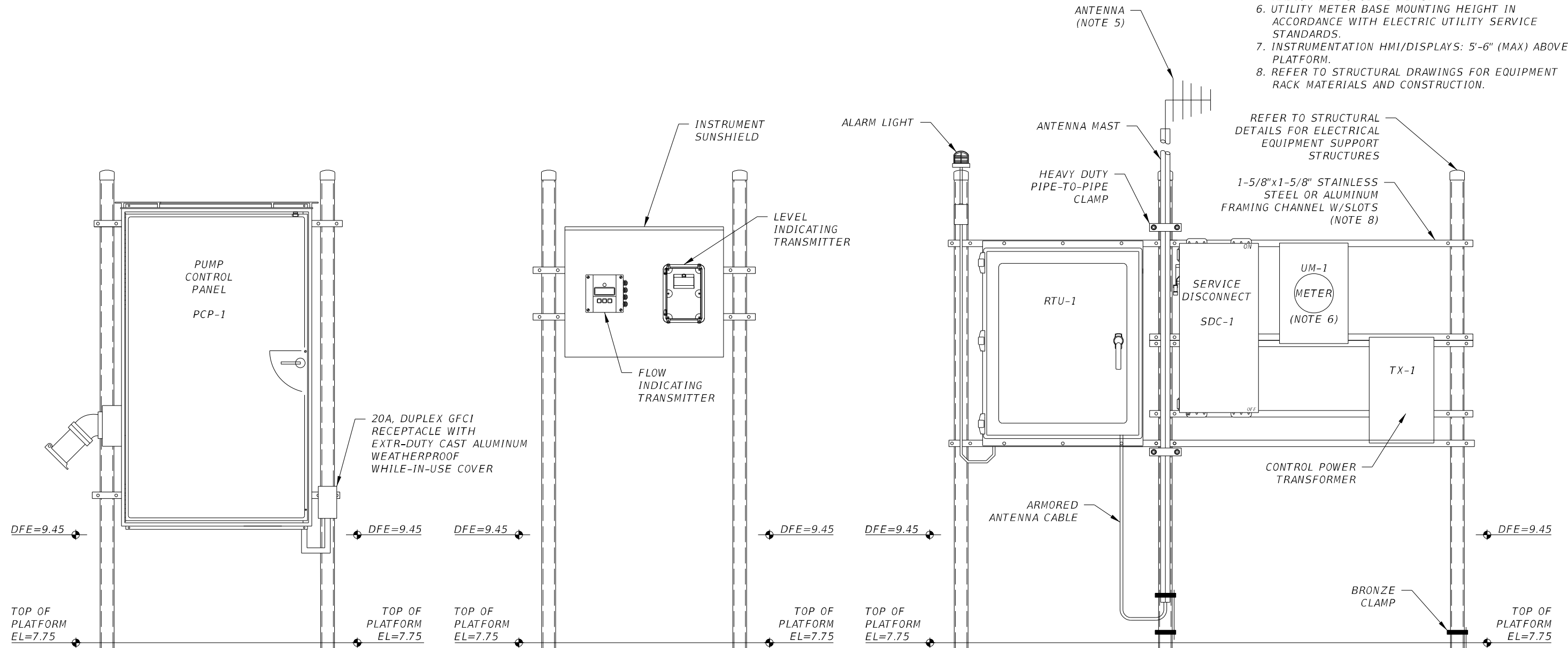
NOTES:

1. NEMA 4X, 316 SS ENCLOSURE.
2. OUTER DOOR NOT SHOWN FOR CLARITY.
3. SEE ELEVATION DRAWING FOR MINIMUM PANEL MOUNTING ELEVATION. ALL BREAKER HANDLES SHALL BE LOWER THAN 6'-7" IN THEIR UPPER POSITION IN ACCORDANCE WITH NEC.

PUMP CONTROL PANEL DETAIL

REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SEWER PS 25 ELECTRICAL DETAILS - IV	SHEET NO. PS-54
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

- GENERAL NOTES
1. ELEVATION DRAWINGS ARE TYPICAL. THE CONTRACTOR SHALL DETERMINE FINAL DIMENSIONS BASED ON SUPPLIED EQUIPMENT SIZES.
 2. REFER TO RISER AND SINGLE-LINE DIAGRAM FOR CONDUITS AND CONNECTIONS BETWEEN PANELS AND EQUIPMENT.
 3. BOTTOM OF ELECTRICAL EQUIPMENT SHALL BE ABOVE THE DFE.
 4. MOUNTING OF PANELS AND INSTRUMENTS SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 5. ANTENNA MOUNTING HEIGHT TO BE DETERMINED BY A RADIO PATH STUDY BY DFS.
 6. UTILITY METER BASE MOUNTING HEIGHT IN ACCORDANCE WITH ELECTRIC UTILITY SERVICE STANDARDS.
 7. INSTRUMENTATION HMI/DISPLAYS: 5'-6" (MAX) ABOVE PLATFORM.
 8. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT RACK MATERIALS AND CONSTRUCTION.



EQUIPMENT ELEVATIONS

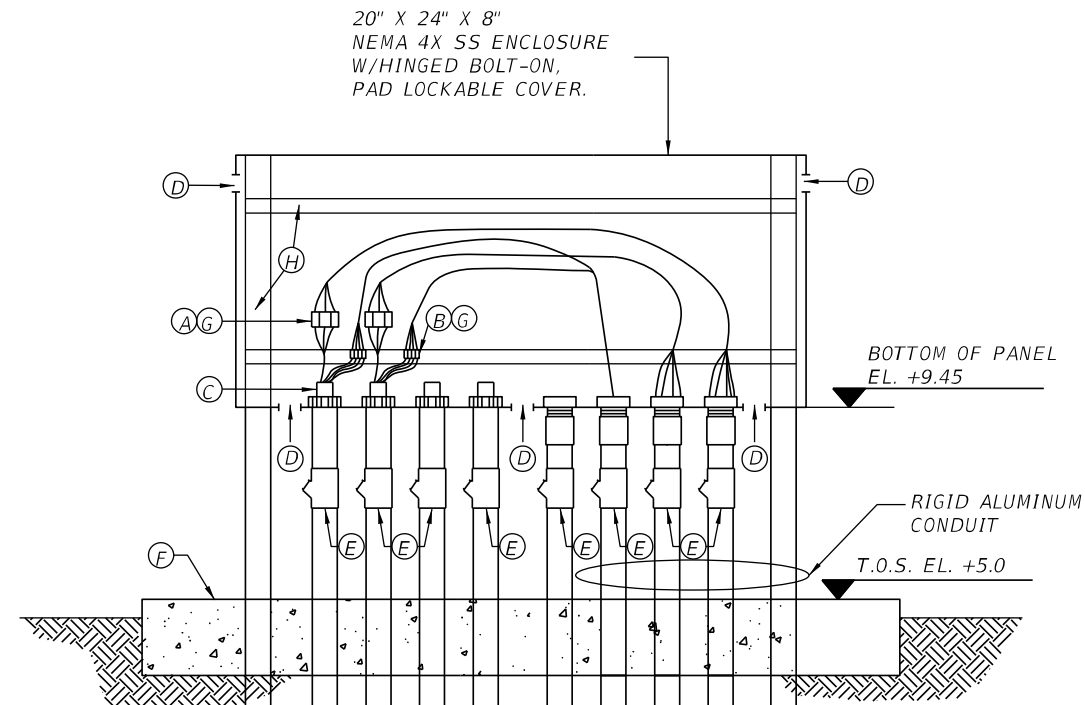
NOT TO SCALE

DATUM = NAVD88
 NGVD29 = NAVD + 1.55'

REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305)-445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SEWER PS 25 ELECTRICAL DETAILS - V	SHEET NO. PS-55
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-56-01		

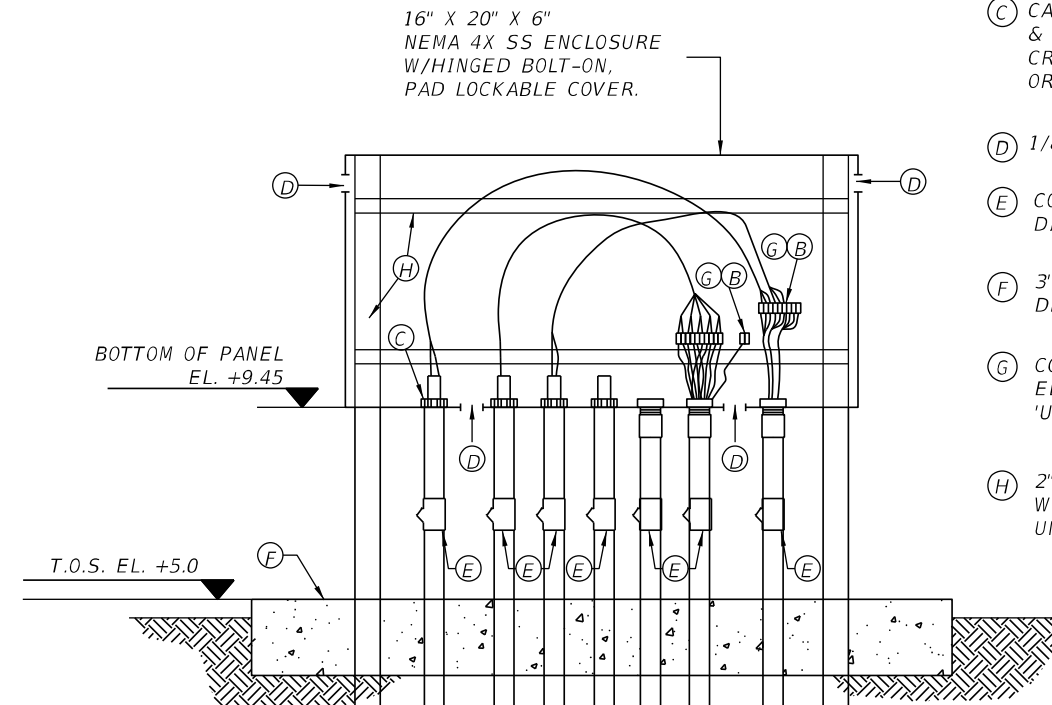
KEYED NOTES

- (A) 6-POLE POWER INSULATED TERMINATION BLOCK PANEL MOUNT ALLEN BRADLEY BULLETIN (OR EQUAL) 1492 SIZED AS REQUIRED.
- (B) 6-CIRCUIT CONTROL INSULATED TERMINATION BLOCK PANEL MOUNT ALLEN BRADLEY BULLETIN (OR EQUAL) 1492
- (C) CABLE CORD FITTING WITH GLAND NUT & NEOPRENE BUSHING EQUAL TO CROUSE HINDS CGFP (OR EQUAL) SIZE OR AS REQUIRED FOR CABLE O.D.
- (D) 1/8" DRAIN AND VENTILATION HOLES
- (E) CONDUIT SEAL SUITABLE FOR CLASS I, DIV. 1, GROUP D HAZ. LOCATION
- (F) 3' X 3' X 6" CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
- (G) COAT WITH CLEAR URETHANE SEAL ELECTRICAL-ELECTRONIC INSULATOR AS CRC 'U' 02049 (OR EQUAL)
- (H) 2" Ø POST GALV. STL. PIPE SCH. 40 FILLED WITH CONCRETE AND 1-5/8" X 1-5/8" SS UNISTRUT CHANNELS FOR SUPPORT



MOTOR CONNECTION BOX DETAIL (MJB)

N.T.S.



CONTROL CONNECTION BOX DETAIL (IJB)

N.T.S.

PVC COATED RIGID ALUMINUM CONDUIT SHALL BE USED FOR THE LAST 24 INCHES BEFORE ITS EMERGENCE, TYPICAL FOR ALL CONDUIT ENTERING THE WET WELL OR VALVE VAULT

TRANSITION COUPLING, TYPICAL

RIGID NONMETALLIC SCH. 40 PVC CONDUIT TO THE WET WELL

ALL CONDUITS TERMINATED AT THE WET WELL SHALL BE ENCASED IN A CONCRETE ENVELOPE A MINIMUM OF 3 INCHES

TRANSITION COUPLING, TYPICAL

RIGID NONMETALLIC CONDUIT TO CONTROL PANEL

TRANSITION COUPLING, TYPICAL

RIGID NONMETALLIC CONDUIT TO CONTROL PANEL

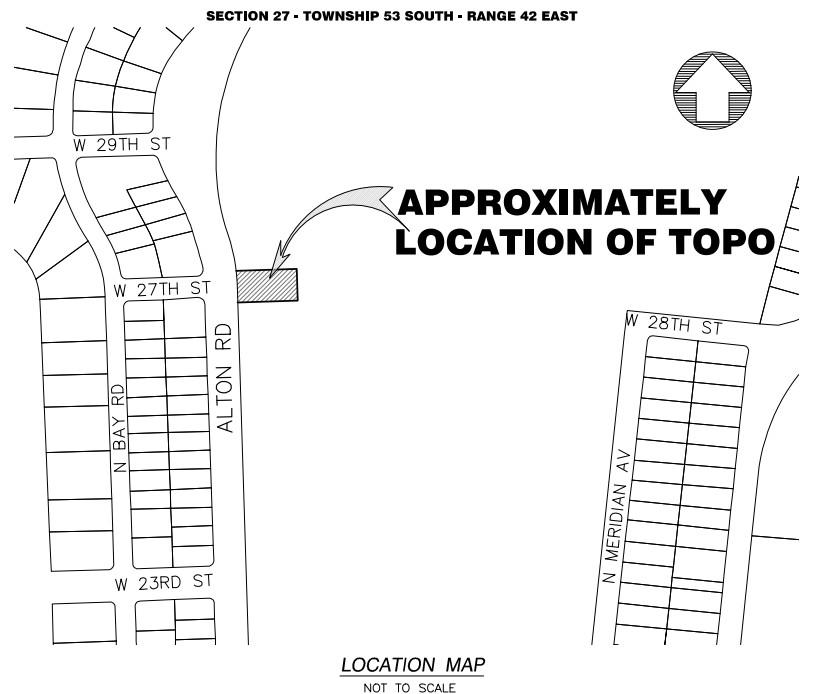
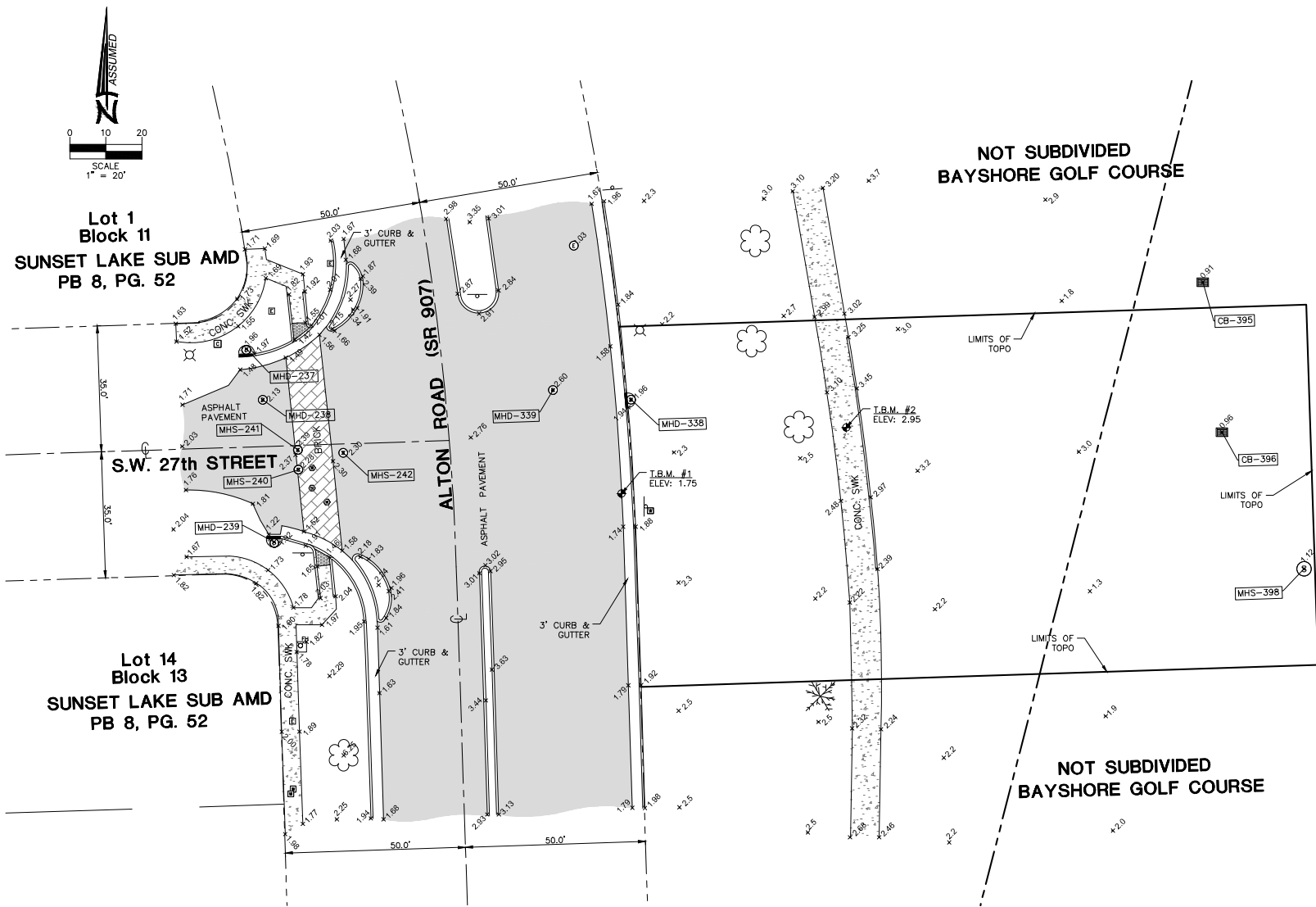
DATUM = NAVD88
NGVD29 = NAVD + 1.55'

REVISIONS				STANTEC CONSULTING SERVICES INC. BRADLEY C. BUCHANAN, P.E. P.E. License No. 86225 901 Ponce de Leon Blvd., Suite 900 Coral Gables, Florida 33134 (305) 445-2900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SEWER PS 25 ELECTRICAL DETAILS - VI	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 907	MIAMI-DADE		429193-1-56-01

MAP OF TOPOGRAPHIC SURVEY

LEGEND

SYMBOL	DESCRIPTION
●	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
CBS	PROPERTY LINE
R/W	RIGHT-OF-WAY
CBS	CONCRETE BLOCK STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
→	NUMBER OF PARKING SPACES
S.I.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SW	SIDEWALK
P.G.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
⊙	CATCH BASIN
⊠	ELECTRICAL WALL PANEL
⊠	FIRE HYDRANT
⊠	DRAINAGE CURB INLET
⊠	BACKFLOW PREVENTOR
⊠	GAS METER
⊠	PEDESTRIAN SIGNAL
⊠	ELECTRIC UTILITY BOX
⊠	LIGHT POLE
⊠	GUY ANCHOR
⊠	WATER METER
⊠	WATER VALVE
⊠	GREASE-TRAP MANHOLE
⊠	SANITARY SEWER CLEAN-OUT
MHS	SANITARY SEWER MANHOLE
⊠	SANITARY SEWER VALVE
⊠	MANHOLE LINKDOWN
⊠	DRAINAGE MANHOLE
MHD	SIGNAL MAST ARM
⊠	INTERCOM
⊠	POST
⊠	SIGN
⊠	MAILBOX
⊠	CONCRETE UTILITY POLE
⊠	GUARDRAIL
⊠	FPL TRANSFORMER
⊠	WOOD UTILITY POLE
T1	TREE NUMBER
⊠	UTILITY STRUCTURE NUMBER
⊠	CBS WALL
⊠	WOOD FENCE
⊠	IRON FENCE
⊠	IRON ROLLING GATE
⊠	IRON SWING GATE
⊠	CHAIN-LINK FENCE
⊠	CHAIN-LINK ROLLING GATE
⊠	CHAIN-LINK SWING GATE
⊠	FENCE_OTHER
⊠	TREE
⊠	PINE TREE
⊠	PALM TREE
⊠	PROPERTY LINE
⊠	RIGHT-WAY-LINE
⊠	EASEMENT LINE
X-UTL-DRAIN	X-UTL-DRAIN
X-UTL-SANT	X-UTL-SANT
⊠	OVERHEAD UTILITY LINE
⊠	EXISTING ELEVATION
⊠	GRAVEL
⊠	BRICK
⊠	BUILDING HATCH
⊠	CONCRETE
⊠	TILE
⊠	ASPHALT PAVEMENT
⊠	HANDICAP TACTILE STRIP



SURVEYOR'S NOTES:

SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of the field work of the Topographic Survey was on November 28, 2022.

SECTION 2) GENERAL LOCATION SITE DESCRIPTION:

A portion of Miami Beach Golf Club (Bayshore Golf Course) lying East of Alton Rd (SR 907) and W 27th Street.

Property Address:

Miami Beach Golf Club (Bayshore Golf Course)
2301 Alton Road, Miami Beach, Florida, 33140

SECTION 3) ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Standards of Practice requirement for this Type of Survey as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of (1"=20') or smaller.

SECTION 4) SOURCES OF DATA:

North arrow direction is based on an assumed Meridian.

Plat of "AMENDED PLAT OF SUNSET LAKE SUBDIVISION", recorded in Plat Book 8, at Page 52, Miami-Dade County Records.

This property is to be located in Flood Zone "AE" (Elevation 8 feet in NGVD29), as per Federal Emergency Management Agency (FEMA) Community Number 120651 (City of Miami), Map Panel No. 12086C0317, Suffix L, Map Revised Date: September 11, 2009.

Legal Description was furnished by client.

Elevations as shown hereon are based on the North American Vertical Datum of 1988 (NAVD88).
Benchmark used, City of Miami Beach, Benchmark Number CMB NB 27 R, Elevation 1.02 feet (NAVD-88).

The conversion below is for informational purposes only:

The conversion from North American Vertical Datum (NAVD 1988) to National Geodetic Vertical Datum (NGVD 1929) is to add 1.55' conversion factor to the existing benchmark.

Benchmark Number CMB NB 27 R = 1.02' (NAVD88)
Conversion = +1.55'
Converted Elev = 2.57' (NGVD29)

SECTION 5) LIMITATIONS:

Since no other information were furnished other than that is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual that may appear in the public records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

SECTION 6) CLIENT INFORMATION:

This Topographic Survey was prepared at the request of and certified to:

Stantec Consulting Services, Inc.

SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify that this "Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Topographic Survey" meets the intent of the applicable provisions of the "Standards of Practice for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

HADONNE CORP., a Florida Corporation
Florida Certificate of Authorization Number LB7097

By:

Abraham Hadad, PSM
For the Firm
Registered Surveyor and Mapper LS6006
State of Florida

NOTICE: Not valid without the original signature and seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

NO.	STRUCTURE	RIM	DIRECTION	INVERT	DESCRIPTION
237	MHD (3x3)	1.96	NORTH	-1.44	CONC. 15"
			BOTTOM	-1.79	
238	MHD (3x3)	2.13	NORTH	-2.17	CONC. 15"
			SOUTH	-1.87	CONC. 18"
			BOTTOM	-3.37	
239	MHD (3x3)	1.92	NORTH	-1.58	CONC. 12"
			BOTTOM	-1.68	
240	MHS (4x4)	2.28	NORTH	-3.72	CONC. 10"
			EAST	-3.92	CONC. 15"
			SOUTH	-3.57	CONC. 12"
			BOTTOM	-3.72	
241	MHS (4x4)	2.37	EAST	-4.03	CONC. 18"
			SOUTH	-3.68	CONC. 12"
			BOTTOM	-3.88	
242	MHS (4x4)	2.3	EAST	-3.8	CANT SEE PIPE
			WEST	-3.7	CONC. 18"
			BOTTOM	-3.75	
338	MHD (3x3)	1.93	NORTHEAST	-0.32	PVC 10"
			WEST	-2.22	ALUMINUM 15"
			BOTTOM	-2.37	
339	MHD	2.6			CAN NOT ACCESS
395	CB (3x3)	0.91	BOTTOM	-3.34	FULL OF WATER
396	CB (3x3)	0.96	BOTTOM	-3.79	FULL OF WATER
397	CB (3x3)	0.77	BOTTOM	-2.98	FULL OF WATER
398	MHS (4x4)	1.12	EAST	-4.23	CLAY 18"
			WEST	-4.13	CLAY 18"
			BOTTOM	-4.18	

REVISIONS	NO.	DATE	DESCRIPTION
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		

FILE
DRAWN BY: JA
TECH BY: RI
QA/QC BY: JS
Job No.: 22118