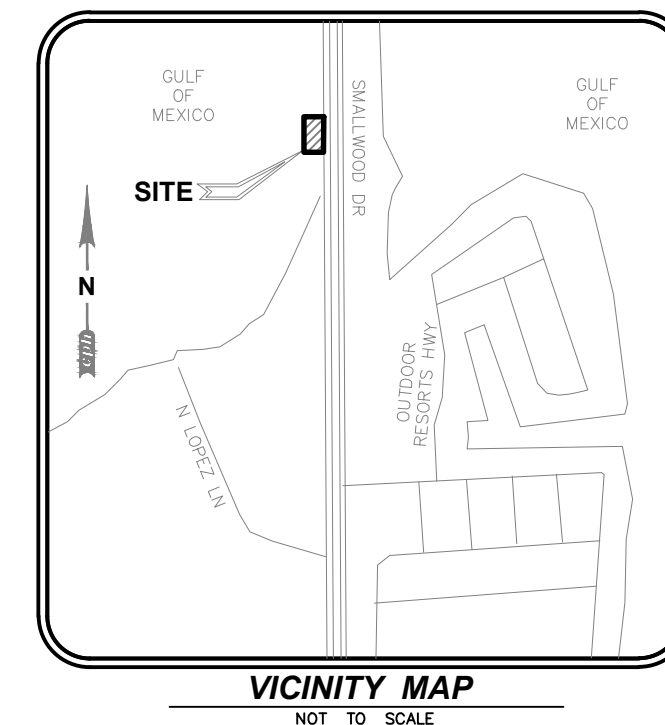




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KYLE BECHTELHEIMER, P.E. FL. P.E. No. 88673					
					By
					Revision
					Date
Δ	Δ	Δ	Δ	Δ	No.
Designed by: A.W.					
Drawn by: A.W.					
Checked by: K.B.					
Approved by: K.B.					
Job No.: E9704					
Date: 10/16/2025					
Plans Prepared By CPH _i , Inc.					
1992 SW 1st St. Miami, FL 33135 Ph: 305-274-4805 Licenses: Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926 Lndscap. Lic. No. LC0000298					
COVER		EVERGLADES CITY CHOKOLOSKEE MASTER PUMP STATION REHABILITATION SECTIONS 26 & 30, TOWNSHIP 63 SOUTH RANGES 29 & 30 EAST COLLIER COUNTY, FLORIDA			
Sheet No. G-0.1					

ALL WORK AND REQUIREMENTS FROM THE NOTES IN THIS PAGE SHALL BE A REQUIREMENT OF THE CONTRACT AND EXECUTED BY THE CONTRACTOR AT NO ADDITIONAL COST.

- IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS IN A WRITTEN REPORT. ANY CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY AND DETAILED IN THE REPORT. CONTRACTOR SHALL ASSUME ALL EXISTING UTILITIES SHALL REMAIN AND WILL BE SUPPORTED BY THE CONTRACTOR DURING CONSTRUCTION.
31. NO VALVE BOXES, METERS, PORTIONS OF MANHOLES, OR OTHER APPURTENANCES OF ANY KIND RELATING TO ANY UNDERGROUND UTILITIES SHALL BE LOCATED IN ANY PORTION OF A CURB-AND-GUTTER OR SIDEWALK SECTION. CONTRACTOR SHALL ADVISE EOR IMMEDIATELY UPON DISCOVERY OF A POTENTIAL CONFLICT.
32. WHERE REQUIRED, AT NO ADDITIONAL COST TO THE CITY, THE CONTRACTOR SHALL USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF EXCAVATIONS AND PROTECT EXISTING ROADWAYS, UTILITIES, STORM WATER SYSTEMS AND OTHER FACILITIES. CONTRACTOR TO COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS AT ALL TIMES. CITY PERSONNEL ARE AUTHORIZED TO SHUT DOWN ANY UNSAFE OPERATIONS IF WITNESSED, WITHOUT REPERCUSSION OR LIABILITY FOR DELAY, OR COST IMPACT.
33. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
34. ALL COMPACTION SHALL BE 98% OF AASHTO T-180.
35. PAVED / CONCRETE DRIVEWAYS SHALL BE TEMPORARILY RESTORED WITHIN 24 HOURS WITH AN ALL WEATHER PATCH. ALL DIRT DRIVEWAYS SHALL BE RESTORED TO SAME TYPE OR BETTER CONDITION WITHIN 24 HOURS.
36. CONTRACTOR SHALL PROVIDE A DETAILED RESTORATION SCHEDULE WHICH SHALL BE SUBMITTED FOR REVIEW PRIOR TO CITY PERMITS BEING ISSUED.
37. CONTRACTOR SHALL MAINTAIN DRAINAGE IN DITCHES AND SWALES AT ALL TIMES. THIS INCLUDES ALL TURBIDITY BARRIERS, SYNTHETIC HAY BAILS, ADDITIONAL FILL MATERIAL, BYPASS PUMPING AND SWALE RESTORATION INCLUDING SODDING. ALL DITCH WORK SHALL MEET THE TEMPORARY EROSION AND SEDIMENT CONTROL REQUIREMENT OF INDEX 102 AND INDEX 103 OF THE LATEST FDOT DESIGN STANDARDS. PAYMENT FOR DITCH AND SWALE MAINTENANCE SHALL BE INCLUDED IN THE PRICE OF THE PIPE AND NO SEPARATE PAYMENT WILL BE CONSIDERED.
38. PRIOR TO THE CONNECTION TO ANY EXISTING MAIN, THE PROPOSED FORCE MAIN SHALL BE FLUSHED, BACTERIOLOGICALLY TESTED, DISINFECTED, ENGINEER APPROVED PRESSURE TESTING, AND HAVE FDEP CLEARANCE. REFER TO FDEP PERMIT FOR ANY ADDITIONAL REQUIREMENTS. ALL CONNECTIONS SHALL BE MADE IN THE PRESENCE OF CITY PERSONNEL.
39. THE CONTRACTOR SHALL INSTALL TEMPORARY WATER TIGHT BULKHEADS, APPROVED BY THE ENGINEER, WITHIN THE END OF THE NEW PIPELINE, WHENEVER PIPE LAYING OPERATIONS ARE NOT TAKING PLACE.
40. ALL EXISTING TRAFFIC SIGNS WITHIN THE PROPOSED CONSTRUCTION LIMITS ARE TO BE PROTECTED. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS WHERE DIRECTED. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THE DAMAGED SIGNS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
41. CONTRACTOR SHALL PROVIDE ALL TEMPORARY FILL AND STORM PIPING NECESSARY TO INSTALL NEW CONSTRUCTION. RESTORE ALL DISTURBED AREAS TO PRE EXISTING CONDITIONS OR BETTER.
42. ALL DISTURBED SOD SHALL BE REPLACED WITH SOD. NO SEEDING IN ALLOWED.
43. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYING DURING CONSTRUCTION. AS-BUILTS SHALL BE ELECTRONICALLY SUBMITTED TO EOR FOR REVIEW PRIOR TO ACCEPTANCE AND FINAL COMPLETION OF WORK.
44. PROVIDE PRE AND POST CONSTRUCTION VIDEO.
45. CONTRACTOR TO PROVIDE ALL BY-PASS PUMPING AND PIPING NEEDED TO COMPLETE THE PROJECT.
46. PROVIDE ALL SHEET, SHORING, BREASTING NEEDED TO COMPLETE WORK.
47. PIPING OR STRUCTURE SHALL NOT BE INSTALLED IN WET CONDITIONS. CONTRACTOR TO PROVIDE ALL DEWATERING SYSTEMS NEEDED TO INSTALL ALL IMPROVEMENTS IN DRY CONDITIONS.
48. CONTRACTOR SHALL SUPPLY ALL NUTS, BOLTS, WASHERS, AND GASKETS NECESSARY TO PERFORM CONSTRUCTION AS SHOWN ON THESE PLANS.
49. ANY DISCREPANCIES BETWEEN DESIGN DATA AND FIELD VERIFICATIONS MUST BE REPORTED TO THE DESIGN TEAM TO OBTAIN GUIDANCE ABOUT THE SPECIFIC SITUATION.
50. WETWELLS SHOWN IN CALCULATIONS ARE SCHEMATIC. FOLLOW PLANS FOR DETAILED DIMENSIONS AND ELEVATIONS.

1. PERMITS OR LETTERS OF DETERMINATION FROM FDEP SHALL BE OBTAINED FOR THE SANITARY SEWER COLLECTION SYSTEM AND WATER DISTRIBUTION SYSTEM PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. A STAMPED APPROVED SET OF PLANS BY THE CITY SHALL BE PRESENT ON THE SITE AT ALL TIMES. APPROVED PLANS ARE VALID FOR 12 MONTHS FROM THE DATE OF APPROVAL. IF CONSTRUCTION DOES NOT BEGIN WITHIN THE 12 MONTH PERIOD, THE DEVELOPER MUST CONTACT THE CITY FOR A PROJECT STATUS REVIEW AND APPROVAL EXTENSION.
3. A MINIMUM OF THREE SETS OF SHOP DRAWINGS SHALL BE SUBMITTED TO CITY AND EOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. INSTALLATION OF MATERIALS AND/OR STRUCTURES PRIOR TO SHOP DRAWING APPROVAL IS DONE AT THE CONTRACTOR'S OWN RISK.
5. TWO HARD COPIES AND ONE ELECTRONIC COPY OF RECORD DRAWINGS SHALL BE SUBMITTED TO CITY AND EOR AT OR BEFORE THE FINAL INSPECTION. RECORD DRAWINGS SHALL CONFORM TO CITY STANDARDS, SPECIFICATIONS AND DETAILS.

1. THE MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATIONS "ROADWAY AND TRAFFIC DESIGN STANDARDS" LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING A M.O.T. PLAN IN ACCORDANCE WITH FDOT GUIDELINES, REGULATIONS AND STANDARDS TO THE CITY OR COUNTY (WHICHEVER IS APPLICABLE) FOR APPROVAL PRIOR TO COMMENCING WORK. THE CONTRACTOR'S M.O.T. PLAN SHALL BE SEALED BY A FLORIDA REGISTERED CIVIL ENGINEER WITH KNOWLEDGE OF PREPARING TRAFFIC CONTROL PLANS.
2. THE POSTED SPEED LIMITS ALONG THE ROADWAYS UNDER CONSTRUCTION SHALL BE IN FORCE, UNLESS IT IS DEEMED APPROPRIATE THAT THE SPEED BE REDUCED.
3. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS DURING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL NOTIFY EXISTING AND RESIDENCES WITHIN THE CONSTRUCTION AREA AT LEAST (5) WORKING DAYS PRIOR TO CONSTRUCTION AND SHALL MAINTAIN ACCESS AT ALL TIMES.
5. THE CONTRACTOR SHALL ADJUST THE MAINTENANCE OF TRAFFIC SIGNS AND BARRICADES AS NEEDED PER FIELD CONDITIONS.
6. CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC PER FOOT REQUIREMENTS. CONTRACTOR SHALL PROVIDE FULL WARNING SIGNS, LIGHTS AND FLAGS WHEN AS REQUIRED BY FOOT IN THE "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES" (FDOT INSTRUCTIONS 600 - 8501, TO ENSURE SAFE PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION ACTIVITIES.

AN EROSION CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE HAY BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION. PROVIDE STORM WATER BY-PASS PIPING OF PUMPING TO MAINTAIN DRAINAGE IN ALL LOCATIONS NECESSARY FOR EQUIPMENT STAGING.

A. STOCKPILING MATERIAL
NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.

B. EXPOSED AREA LIMITATION
THE SURFACE AREA OF OPEN, RAW ERODABLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFFSITE DEPOSIT SEDIMENTS.

C. INLET PROTECTION
INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF THE ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

D. TEMPORARY SEEDING
AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL SEEDING SHALL BE SEEDING WITHIN THIRTY (30) DAYS SHALL BE SEEDING WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.

E. TEMPORARY SEEDING AND MULCHING
SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN 4 ABOVE, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY TWO (2) INCHES, LOOSE MEASURE, OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDING AREA TO A DEPTH OF FOUR (4) INCHES.

F. TEMPORARY GRASSING
SEEDING OR SEEDING AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

G. TEMPORARY RE-GRASSING
IF, AFTER 14 DAYS, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEEDS APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.

H. MAINTENANCE
ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

2. PROJECT SILT FENCES AND STAKED SILT BARRIERS, SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATION, SEC. 104.6, 104.7 AND SEC. 985 AND SHALL BE INSTALLED ALONG THE WESTERN LIMITS OF THE PROJECT.

3. ALL DISTURBED AREAS SHALL BE RESTORED WITH SOD (NO SEED AND MULCH) WITH THE SAME TYPE OF SOD UNLESS NOTED OTHERWISE ON PLANS.



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FL. P.E. NO. 86673

[illegible]

Designed by:	A.W.
Drawn by:	A.W.
Checked by:	K.B.
Approved by:	K.B.
Job No.:	E9704
Date:	10/16/2025

Plans Prepared By:	CPH, Inc.
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Miami, FL 33135	
Ph: 305.274.4805	
Licensees:	
Eng. C.O.A. No. 3215	
Survey L.B. No. 7143	
Arch. Lic. No. AA2600926	
Lndscp. Lic. No. LC0000298	

GENERAL NOTES	EVERGLADES CITY CHOKOLOSKEE MASTER PUMP STATION REHABILITATION SECTIONS 26 & 30, TOWNSHIP 63 SOUTH RANGES 28 & 30 EAST COLLIER COUNTY, FLORIDA
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Sheet No.
G-0.2

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Field Crew: D. James	
Drawn By: R. Buchanan	
Checked By: P. Katrek	
Approved By: T. Galloway	
Job No.: E9704	
Date: 3/02/2023	© 2025

TOPOGRAPHIC SURVEY

CITY OF EVERGLADES CITY
SMALLWOOD DRIVE
SECTION 25-TOWNSHIP 53 SOUTH-RANGE 29 EAST
MONROE COUNTY, FLORIDA

Sheet No.
V1.0



SITE CONDITION



WESTERN WET WELL & VALVE VAULT



EASTERN WET WELL & VALVE VAULT



ELECTRICAL RACK



DEMOLISH EXISTING
FIBERGLASS BUILDINGS

DEMOLISH EXISTING
VALVES AND
MANHOLES

DEMOLISH AND BACKFILL
EXISTING VALVE VAULTS.
SEE NOTE 1.

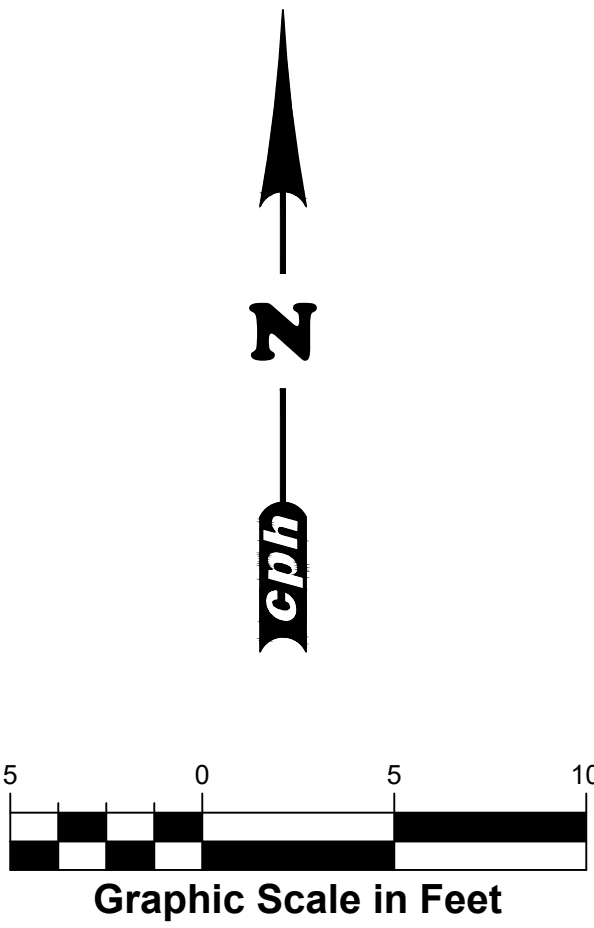
DEMOLISH AND BACKFILL
EXISTING WETWELL

REMOVE ELECTRICAL
RACK AND
ELECTRICAL CONDUIT

REMOVE EXISTING INACTIVE
WET WELL SLAB, EXISTING PUMPS,
RISER PIPES, VALVES, FLOATS,
AND ASSOCIATED FITTINGS

REUSE EXISTING INACTIVE
WET WELL STRUCTURE
IN PLACE

SMALLWOOD DRIVE



EXISTING CONDITIONS LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING METAL LID
- ITEMS TO BE REMOVED AND / OR DEMOLISHED

PLAN NOTES

- CONTRACTOR SHALL REMOVE VAULT HATCH AND LID. BACKFILL TO MATCH EXISTING GRADE WITH COMPACT DIRT, 6" STONE AND 6" CONCRETE.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL RUBBLE AND DEBRIS CAUSED BY DEMOLITION AND DISPOSING OF MATERIAL IN A PROPER MANNER OFF PROJECT SITE.
- EXISTING UTILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION AND CONTRACTOR SHALL NOTIFY CITY AND EOR OF ANY DISRUPTIONS 48 HOURS IN ADVANCE AND PROVIDE INTERIM/BY-PASSING UTILITIES AS REQUIRED.
- EXISTING INFLUENT AND EFFLUENT LOCATIONS ARE AN APPROXIMATION BASED ON AS-BUILTS. CONTRACTOR TO PERFORM EXPLORATORY EXCAVATIONS TO CONFIRM DEPTH AND LOCATION OF THE INFLUENT AND EFFLUENT PIPING AND CAN MAKE MODIFICATIONS AS NEEDED TO FACILITATE THEIR CONNECTION.

SITE BENCHMARK #102
TOP OF MAG NAIL & DISK
WITH "BM" LB #7143
ELEV = 4.34 (NAVD '88)
N: 539977.10
E: 537949.87

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No.	Date	Revision	By

Designed by: A.W.
Drawn by: A.W.
Checked by: K.B.
Approved by: K.B.
Job No.: E9704
Date: 10/16/2025
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DEMOLITION PLAN
EVERGLADES CITY CHOKOLOSKEE
MASTER PUMP STATION REHABILITATION
SECTIONS 26 & 30, TOWNSHIP 63 SOUTH
RANGES 28 & 30 EAST
COLLIER COUNTY, FLORIDA

Sheet No.

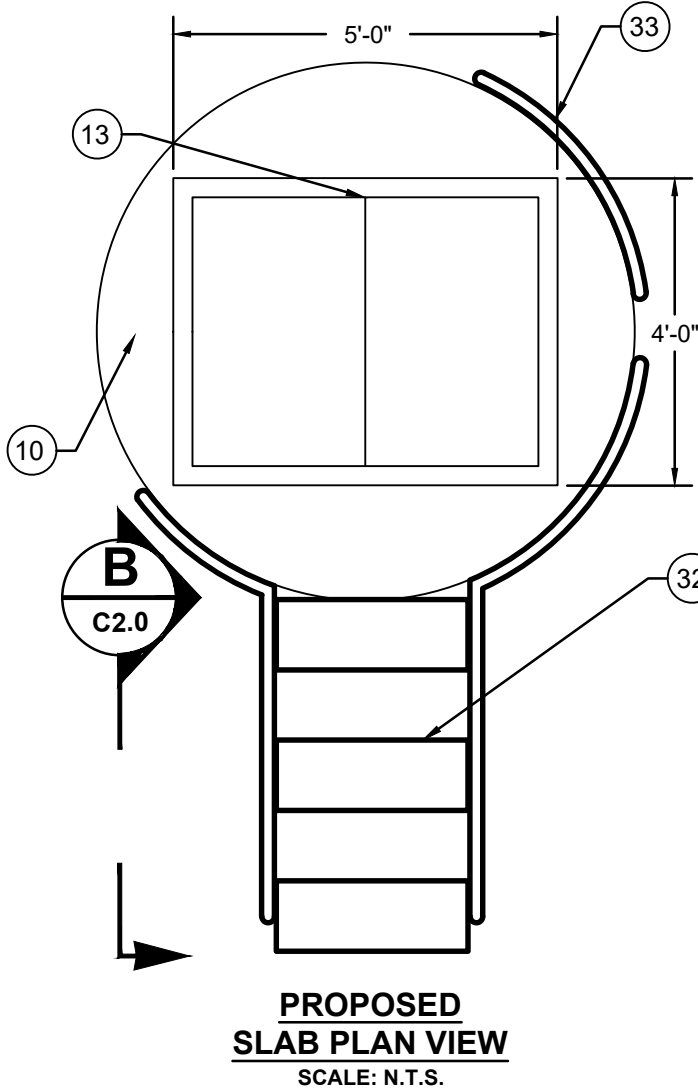
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EQUIPMENT SCHEDULE

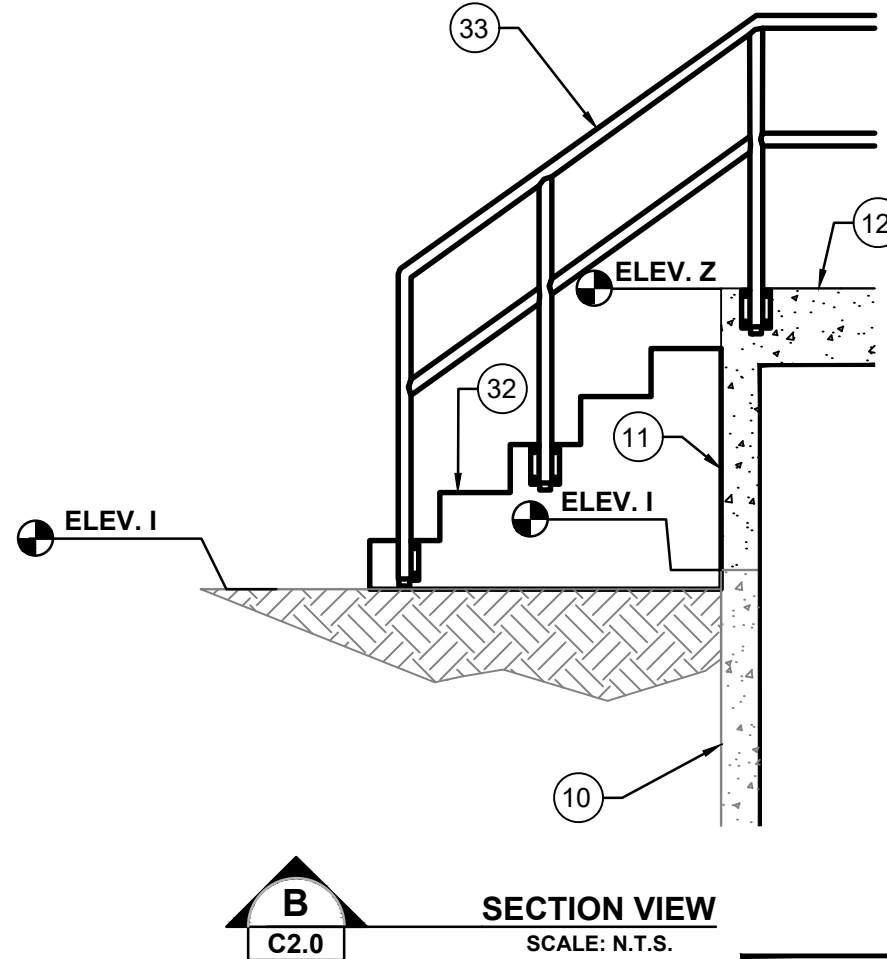
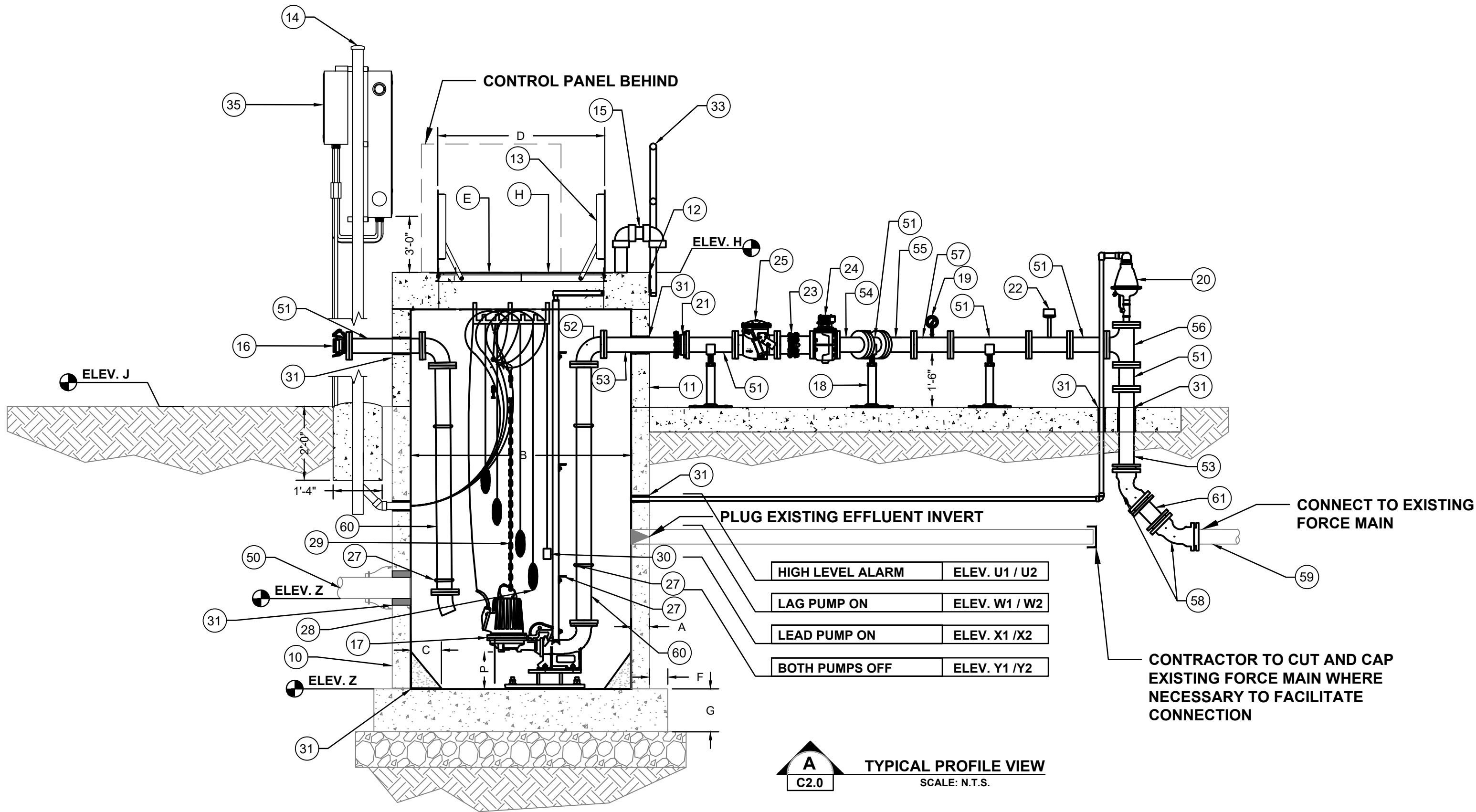
ITEM#	DESCRIPTION
10	EXISTING 6'-0" DIAMETER WET WELL
11	6'-0" Ø 3'-0" HIGH CONCRETE WET WELL EXTENSION
12	12" PRECAST CONCRETE TOP
13	4'-0" X 5'-0" ALUMINUM DOUBLE DOOR ACCESS HATCH WITH ALL 316 STAINLESS STEEL HARDWARE, SAFETY GRATE, SPRING LOADED HANDLE AND HINGED AUTOMATIC HOLD OPEN ARM. 300 LBS. LOAD RATING.
14	ELECTRICAL RACK WITH (2) STAINLESS STEEL POLE SUPPORTS AND 2" SCHEDULE 80 CONDUIT PIPING AND CONDUIT
15	4" SCHEDULE 80 PVC WITH 2-90° BENDS AND STAINLESS STEEL BUG SCREEN MESH VENT PIPE
16	4" PUMP-OUT AND DISCHARGE AND 4" BLIND FLANGE WITH A 4" SCHEDULE 10 316 STAINLESS STEEL CAMLOCK AND CAP
17	XYLEM FLYGT M 3127 SUBMERSIBLE PUMP WITH BASE ELBOW AND STAINLESS STEEL ADJUSTABLE BASE PLATE WITH 2" SCHEDULE 40 316 STAINLESS STEEL GUIDE RAILS (PER MANUFACTURER) AND 2" SCHEDULE 10 316 STAINLESS STEEL GUIDE RAIL BRACKET AND CABLE HOLDER
18	STAINLESS STEEL ADJUSTABLE PIPE SUPPORT
19	8" ASHCROFT 1008S STAINLESS STEEL PRESSURE GAUGE WITH PET COCK THREADED
20	AIR RELEASE VALVE WITH 2" SCHEDULE 40 PVC DISCHARGE PIPE
21	4" MEGAFLANGE PIPE RESTRAINT
22	4" MAG METER
23	4" ROMAC DISMANTLING JOINT DJ405
24	4" PLUG VALVE
25	4" CHECK VALVE WITH LEVER AND WEIGHT
26	FRP LINER
27	SUPPORT BRACKETS SHALL BE 316 STAINLESS STEEL 2" X 2" X 0.75" ANGLE WELDED TO 4" X 4" X 0.75" 316 STAINLESS STEEL PLATE. THE PLATES SHALL BE ATTACHED TO THE WET WELL WALL WITH 0.375" 316 STAINLESS STEEL ANCHORS.
28	24-VOLT LIQUID LEVEL CONTROLLERS
29	GRAB LINK OR GRIP EYE POSITIVE RECOVERY SYSTEM CONSISTING OF 316 STAINLESS STEEL CHAIN ADJUST A-LINK TYPE GRIP EYE AND 1/4" 316 STAINLESS STEEL CABLE AS PROVIDED BY MANUFACTURER
30	ULTRASONIC LEVEL TRANSDUCER
31	NON-SHRINK CONCRETE GROUT
32	CONCRETE STAIRS (SEE TECH SPECS)
33	ALUMINUM HANDRAIL
34	ELECTRIC METER & MAIN DISCONNECT RACK
35	RACK FOR CONTROL PANEL, RTU, MOTOR J-BOX

1. CONTRACTOR TO CONFIRM EXISTING DIMENSIONS AND DEPTH OF EACH WET WELL AND SUBMIT SHOP DRAWING FOR EACH PUMP AND FLOAT PLACEMENT FOR EOR REVIEW AND APPROVAL.
2. CONTRACTOR TO FIELD VERIFY ALL UTILITIES VIA GPR IN PROJECT AREA PRIOR TO INSTALLATION. THE CONTRACTOR SHALL SUBMIT THE FIELD NOTES TO EOR FOR REVIEW AND APPROVAL IN ORDER TO FINALIZE POINTS OF CONNECTION.
3. EXISTING INFLUENT AND EFFLUENT LOCATIONS ARE AN APPROXIMATION BASED ON AS-BUILT'S. CONTRACTOR TO PERFORM EXPLORATORY EXCAVATIONS TO CONFIRM DEPTH AND LOCATION OF THE INFLUENT AND EFFLUENT PIPING AND CAN MAKE MODIFICATIONS AS NEEDED TO FACILITATE THEIR CONNECTION.



MANUFACTURER:	XYLEM-FLYGT
MODEL:	FLYGT M 3127
IMP:	1
DIA:	157 MM
SPEED:	3445 RPM
DISCHARGE SIZE:	50 MM
VOLTAGE:	230 V
PHASE:	1
H.P.:	9.4
PEAK DESIGN INFLOW:	291 GPM
SHUT OFF HEAD:	-1.00 FEET TDH
DUTY POINT CONDITION:	146 GPM AT 63 FEET TDH

THICKNESS OF WALL:	A	6"	----
DIAMETER OF WET WELL:	B	6'	----
WIDTH OF BOTTOM FILLET:	C	1'	----
LENGTH OF PUMP ACCESS OPENING:	D	5'	----
WIDTH OF PUMP ACCESS OPENING:	E	4'-0"	----
LIP WIDTH OF WET WELL BASE:	F	6"	----
THICKNESS OF WET WELL BASE:	G	14"	----
BASE ELEVATION FEMA 2024:	BFE	----	12.00'
TOP OF WET WELL EXTENSION:	H	----	9.07'
TOP OF EXISTING WET WELL:	I	----	6.24'
FINISHED GRADE:	J	----	6.07'
HIGH LEVEL ALARM:	U1 / U2	----	5.24'
INFLUENT PIPE INVERT:	V	----	-0.37'
LAG PUMP ON:	W1 / W2	----	1.50'
LEAD PUMP ON:	X1 / X2	----	1.00'
PUMPS OFF (TOP OF PUMP VOLUTE):	Y1 / Y2	----	-1.00'
BOTTOM OF PUMP TO FLOOR OF WET WELL:	P	----	-2.00'
STEP HEIGHT (IF REQUIRED):	Q	N/A	----
FLOOR OF WET WELL:	Z	----	-3.00'



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SITE PLAN & PROFILE

EVERGLADES CITY CHOKOLOSKEE

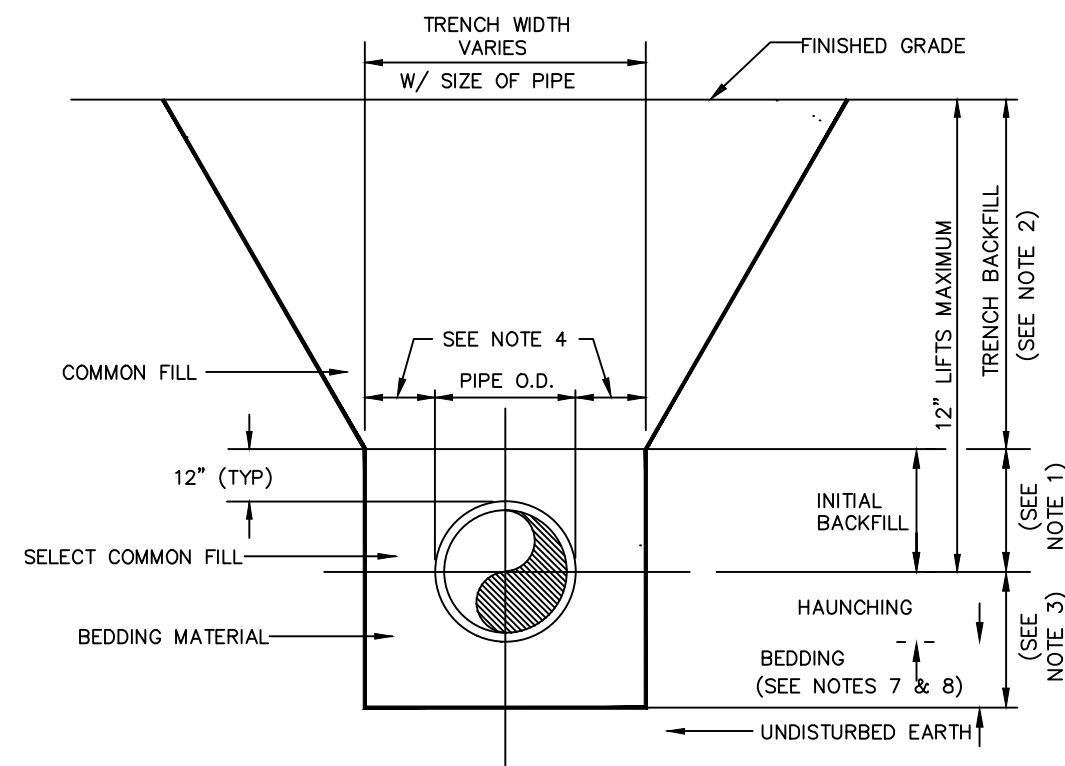
MASTER PUMP STATION REHABILITATION

SECTIONS 26 & 30, TOWNSHIP 63 SOUTH

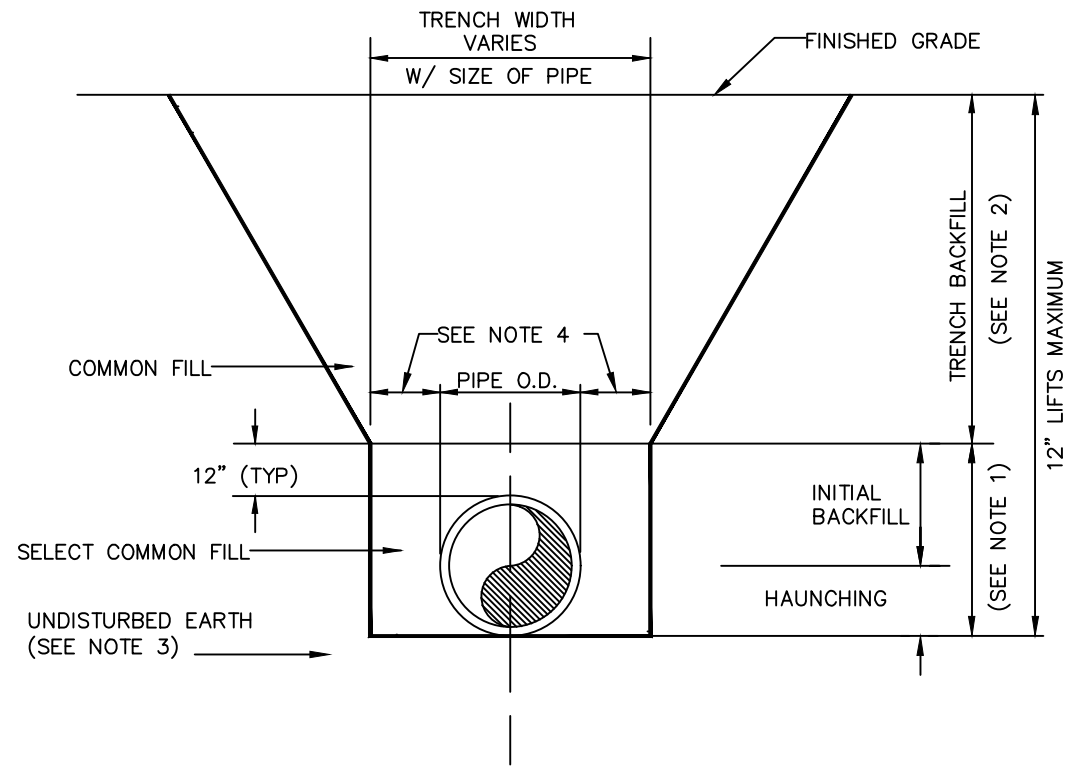
RANGES 28 & 30 EAST

COLLIER COUNTY, FLORIDA

Sheet No.
C-2.0



- NOTES:
1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
 4. 12" MAX (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
 8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH STABLE FOUNDATION.
 9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY SHALL COMPLY WITH CITY REQUIREMENTS.



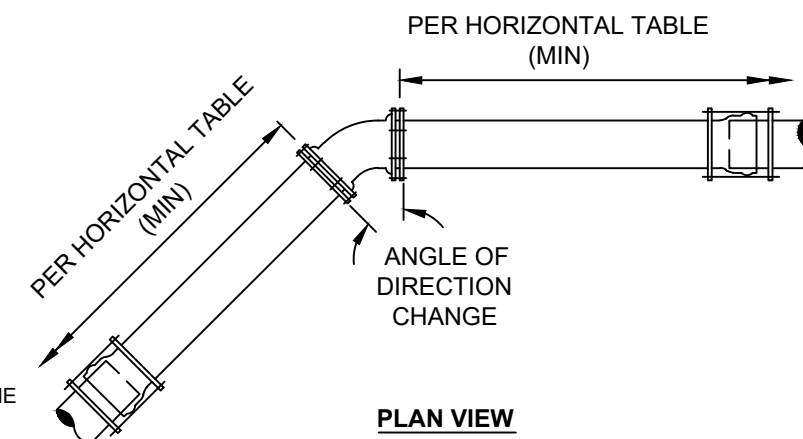
- NOTES:
1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPARED TO 95% (98% UNDER PAYMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPASTO TO 95% (98% UNDER PAYMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
 4. 15" MAX (12" MIN) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 6. ALL PIPE SHALL BE INSTALLED WITH BELL FACINGS UPSTREAM TO THE DIRECTION OF THE FLOW.
 7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY SHALL COMPLY WITH CITY REQUIREMENTS.

	MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS									
PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		SANITARY SEWER FORCE MAIN		SANITARY SEWER GRAVITY MAIN		STORM SEWER OR VACUUM TYPE SANITARY SEWER	
	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
POTABLE WATER	—	—	3'	12"	6'	12"	6'	6" ABOVE 12" BELOW	3'	6" ABOVE 12" BELOW
RECLAIMED WATER	3'	12"	—	—	3'	12"	3'	12"	—	—
SANITARY SEWER FORCE MAIN	6'	12"	3'	12"	—	—	—	—	—	—
SANITARY SEWER GRAVITY MAIN	6'	6" ABOVE 12" BELOW	3'	12"	—	—	—	—	—	—
FIRE HYDRANT UNDERGROUND	—	—	3'	—	6'	—	6'	—	3'	—
STORM SEWER OR VACUUM TYPE SANITARY SEWER	3'	6" ABOVE 12" BELOW	—	—	—	—	—	—	—	—

- THE TABLE REQUIRES THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN FDEP RULES FOR THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
2. FOR THE PURPOSE OF THIS TABLE RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 62.610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATION LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. THE MINIMUM HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND GRAVITY SANITARY SEWER MAY BE REDUCED TO 3 FEET IF THE BOTTOM OF THE WATER MAIN IS LOCATED AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SEWER.
5. AT UTILITY CROSSINGS ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED ABOVE OR BELOW THE OTHER UTILITY PIPELINE, MAXIMIZING THE SEPARATION OF PIPELINE JOINTS. ALTERNATIVELY, WATER MAIN JOINTS MUST BE
- A. AT LEAST 6 INCHES FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR UNRESTRICTED PUBLIC ACCESS RECLAIMED WATER.
- B. AT LEAST 18 INCHES FROM JOINTS IN GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS, AND ALL OTHER TYPES OF RECLAIMED WATER.
6. NO WATER PIPE SHALL PASS THROUGH OR BE CONSTRUCTED TOUCHING ANY PART OF A SANITARY MANHOLE OR STORM SEWER MANHOLE OR INLET STRUCTURE.
7. NEW OR RELOCATED WATER MAINS AND FIRE HYDRANTS WITH UNDERGROUND DRAINS MUST BE AT LEAST 10 FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT SYSTEM" (OSTADS) AS DEFINED IN SECTION 381.006(9)(2), F.S., AND RULE 62.610(2) F.A.C. EXAMPLES OF OSTADS INCLUDE SEPTIC TANKS, DRAIN FIELDS, AND GREASE TRAPS.
8. THE FOLLOWING ARE ACCEPTABLE ALTERNATIVE CONSTRUCTION VARIANCES WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS, AND WHICH MAY ONLY BE IMPLEMENTED UPON RECEIPT OF A VARIANCE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. VARIANCES MUST BE APPROVED BY THE ENGINEER AND APPROVAL FROM FDEP ON A CASE BY CASE BASIS. IMPLEMENTATION OF THESE MEASURES WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER AND APPROVAL BY FDEP COULD RESULT IN THE REQUIREMENT THAT THE INSTALLED UNAPPROVED MEASURES BE REMOVED AND REPLACED AT NO COST.
- A. WHERE A WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE AND/OR WHERE A WATER MAIN CROSSING HAS LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN JOINTS:
1. USE OF PRESSURE RATED PIPE CONFORMING TO AWWA C900 STANDARDS, FOR A GRAVITY OR VACUUM TYPE PIPE LINE.
2. USE OF WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER PIPE.
3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST 4" THICK FOR EITHER PIPE.
- B. WHERE A WATER MAIN IS BEING LAID LESS THAN 3 FEET HORIZONTALLY FROM ANOTHER PIPE LINE AND/OR WHERE A WATER MAIN IS BEING LAID WITH LESS THAN THE REQUIRED MINIMUM HORIZONTAL SEPARATION:
1. USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25" THICK D.I.P.) OR CONCRETE ENCASEMENT AT LEAST 4" THICK FOR THE WATER MAIN AND THE OTHER PIPELINE IF THE OTHER PIPE LINE CONVEYS WASTEWATER OR RECLAIMED WATER.

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)																
	TYPE	PVC AND DUCTILE IRON PIPE SIZE (IN)														
		4	6	8	12	16	20	24	30	36	42	48	54	60	64	
HORIZONTAL	90° BEND	21	29	37	52	65	78	104	122	143	154	167	180	188	195	
	45° BEND	9	12	16	22	27	33	43	51	60	64	70	75	78	81	
	22-1/2" BEND	5	6	8	11	13	16	21	25	29	31	34	36	38	39	
	11-1/4" BEND	2	3	4	6	7	8	11	12	15	16	17	18	19	20	
	5 5/8" BEND OR MJ SLEEVE	1	2	2	3	4	4	6	6	8	8	9	9	10	10	
	PLUG OR BRANCH OF TEE OR DEAD END	43	59	78	109	139	167	277	330	415	424	465	506	529	551	
	VALVE OR LINE STOP	22	30	39	55	70	84	139	165	208	212	233	253	265	276	
	HDPE CONNECTION	19	26	34	49	62	75	125	151	174	203	223				

- NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
 3. WHEN THE JOINTS ARE NOT FULL LENGTH, THE CONTRACTOR SHALL FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
 4. ALL INFLUVALVES SHALL BE RESTRAINED.
 5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
 6. VALUES SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DUCTILE IRON PIPE RESEARCH ASSOCIATION, BELOW:
WORKING PRESSURE: 150 PSI
SOIL DESIGNATION: MS (SAND SILT)
LAYING CONDITIONS: 3
DEPTH OF COVER: $\frac{3}{4}$
SAFETY FACTOR: 1.5
- THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE FOR DIFFERENT SOILS OR GEOPEGIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
- 9.0" BENDS ON VERTICAL PIPE ARE SUBJECT TO REVIEW AND APPROVAL BY THE UTILITY ENGINEER.
- IF 4.0" DRAIN 40" IN-PIPE IS POLYETHYLENE ENCASED, USE 1.25 MULTIPLIER ON RESTRAINT LENGTH.
9. RESTRAINT REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED MAINS.



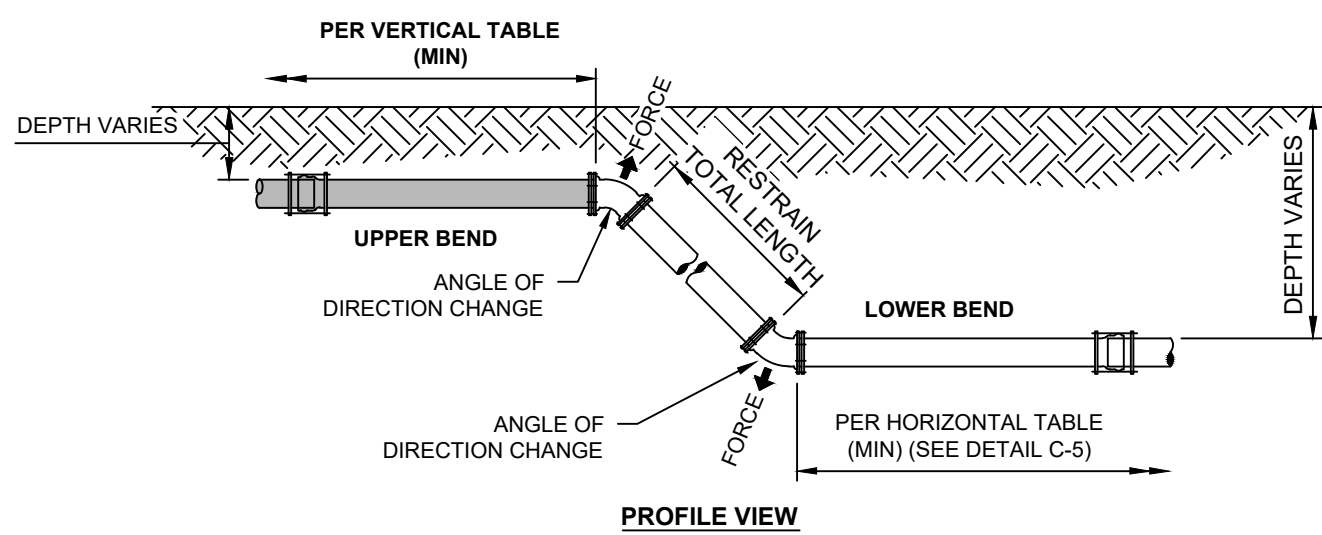
CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL BEDDING & TRENCHING - TYPE A	DATE:
		5/2023
		DETAIL NO.:
		C-2

	STANDARD CONSTRUCTION DETAIL BEDDING & TRENCHING - TYPE B	DATE:
		5/2023
		DETAIL NO:
		C-3

	STANDARD CONSTRUCTION DETAIL MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS	DATE:
		5/2023
		DETAIL NO:
		C-4

	STANDARD CONSTRUCTION DETAIL RESTRAINED HORIZONTAL PIPE - WASTEWATER FORCE & RECLAIMED WATER MAINS (150 PSI)	DATE:
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		DETAIL NO:
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MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)																		
	TYPE	PVC AND DUCTILE IRON PIPE SIZE (IN)																
		4	6	8	12	16	20	24	30	36	42	48	54	60	64			
VERTICAL (UPPER)	90° BEND	43	59	78	109	139	167	277	330	415	424	465	506	529	551			
	45° BEND	18	25	32	45	58	69	115	137	172	176	193	210	219	229			
	22-1/2° BEND	9	12	16	22	28	34	56	66	83	85	93	101	106	110			
	11-1/4° BEND	5	6	8	11	14	17	28	33	41	42	46	50	53	55			
	5 5/8" BEND OR MJ SLEEVE	3	3	4	6	7	9	14	17	21	21	23	25	26	28			



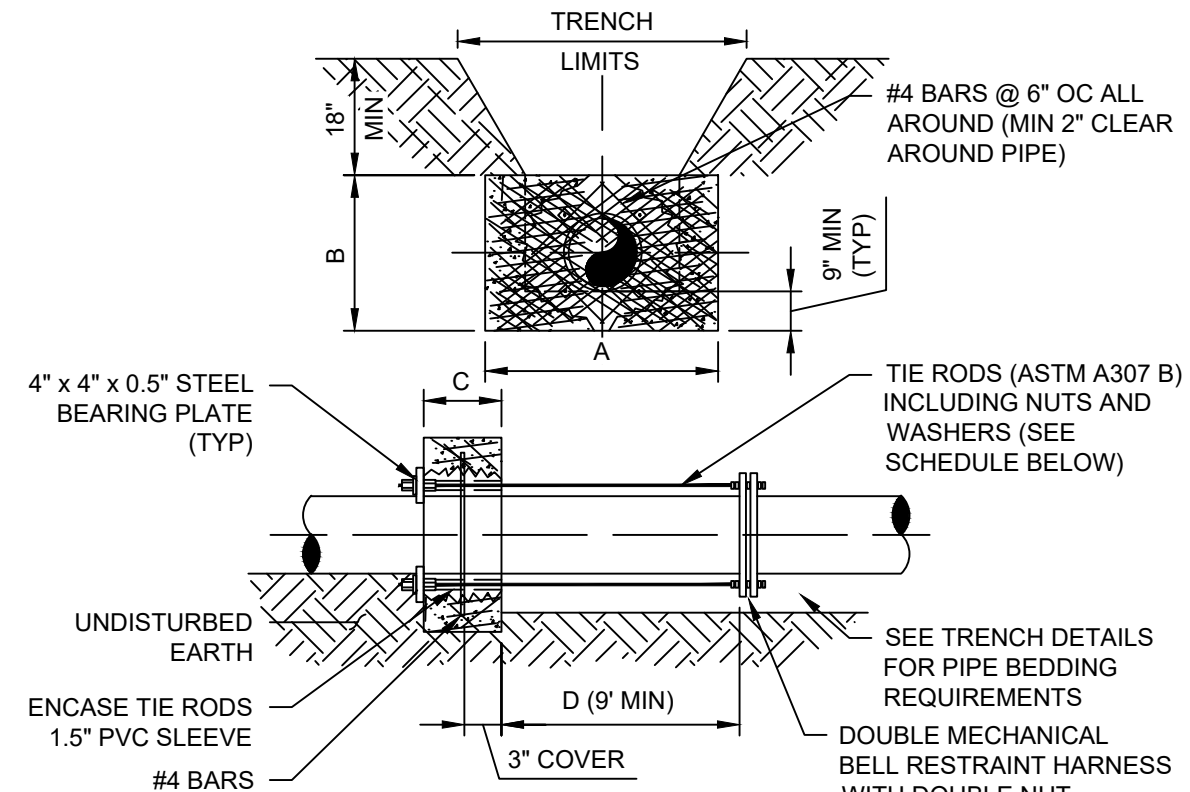
- NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
 4. ALL IN-LINE VALVES SHALL BE RESTRAINED:
 5. WHERE INTERNAL FITTANED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:
WORKING PRESSURE: 150 PSI
SOIL DESIGNATION: SM (SAND SILT)
LAYING CONDITIONS: 3
DEPTH OF COVER: $\frac{3-F}{2}$
SAFETY FACTOR: 1.5
 7. THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
 8. 90° BENDS ON VERTICAL PIPE ARE SUBJECT TO REVIEW AND APPROVAL OF UTILITIES.
 9. IF 4" D.A.M. PIPE IS POLYETHYLENE ENCASED, USE 1.5 MIL THICK ENCASEMENT RESTRAINT LENGTH.
 10. RESTRAINING REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED MAINS.

CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL RESTRAINED VERTICAL PIPE - WASTEWATER FORCE & RECLAIMED WATER MAINS (150 PSI)	DATE:
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		C-6

CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL THRUST COLLAR - WASTEWATER FORCE & RECLAIMED WATER MAINS (150 PSI)	DATE:
		5/2023
		DETAIL NO:
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CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL DIRECTIONAL DRILL	DATE:
		5/2023
		DETAIL NO:
		C-10

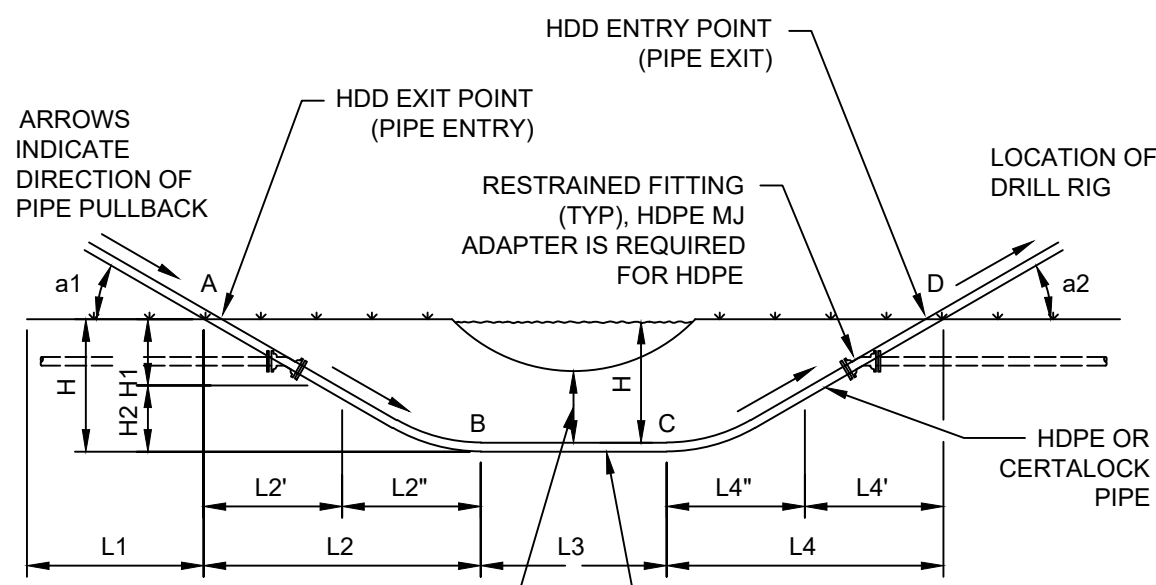
CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL TYPICAL VALVE BOX	DATE:
		5/2023
		DETAIL NO:
		C-14



SCHEDULE OF DIMENSIONS AND MATERIALS						
PIPE SIZE (IN)	PIPE SIZE				THE RODS REQUIRED	
	DIMENSIONS (FT)				DIAL	NO.
	A	B	C	D		
6	0.25	2.0	1.0	1.5	0.75	2
8	2.5	2.5	1.0	1.5	0.75	2
10	3.5	3.0	1.0	1.5	0.75	4
12	6.0	3.0	1.0	1.5	0.75	4
16	6.0	4.0	1.5	1.5	0.75	4
20	8.0	5.0	1.5	1.5	0.75	6
24	9.0	6.0	1.5	1.5	0.75	10
30	12.0	7.0	1.5	1.5	1.0	10
36	15.0	8.0	1.5	1.5	1.0	14
42	15.0	8.0	2.0	1.5	1.0	14
48	19.0	10.0	2.0	1.5	1.0	20
54	22.0	10.0	2.0	1.5	1.0	24
60	27.0	10.0	3.0	1.5	1.125	24
66	31.0	10.0	3.0	1.25	2.0	24

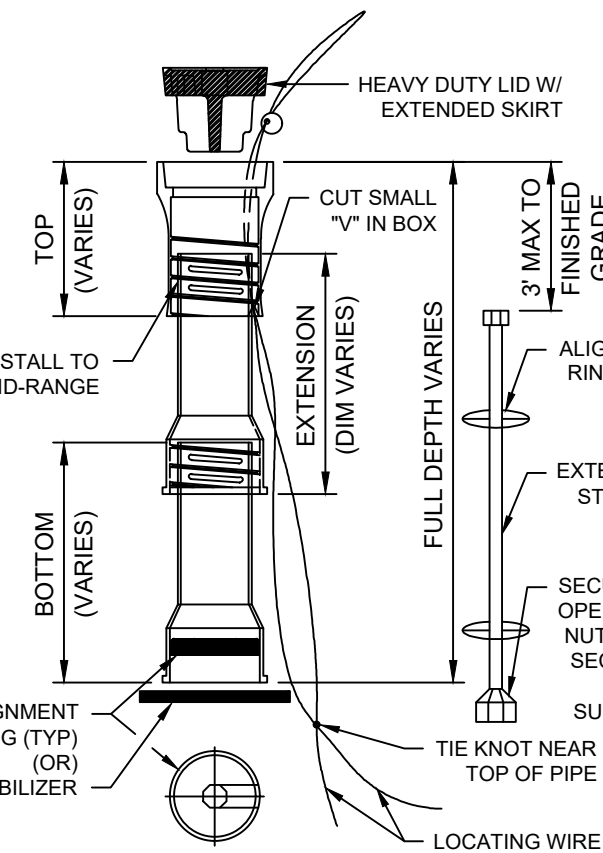
NOTE: THIRST COLLAR ANGLES TO BE COMPUTED ON BASIS OF 2000 LB/SQ. FT. SOIL RESTRAINT RESISTANCE.

- NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
 2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3,000 PSI.
 3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
 4. ALL FLOOR BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
 6. DESIGN PRESSURE: 150 PSI.
 7. REQUIRED FOR LINE STOPS IF RESTRAINT TABLE REQUIREMENTS CANNOT BE MET.



PROFILE VIEW

- NOTES:**
1. SHALL BE DESIGNED PER ASTM F1902-11.
 2. POINTS A, B, C & D PULL FORCE ON PIPE.
 3. L1 - ADDITIONAL LENGTH OF PIPE REQUIRED FOR HANDLING AND THERMAL CONTRACTION.
 4. L2 - HORIZONTAL DISTANCE TO ACHIEVE DESIRED DESIGN DEPTH.
 5. L3 - HORIZONTAL DISTANCE TO TRAVERSE AT DESIRED DESIGN DEPTH.
 6. L4 - HORIZONTAL DISTANCE TO RISE TO SURFACE.
 7. H - DEPTH OFF BORE HOLE FROM GROUND ELEVATION.
 8. a1 - PIPE ENTRY ANGLE SHALL NOT EXCEED 15 DEGREES AND THE MANUFACTURERS RECOMMENDATIONS ON DEFLECTION.
 9. a2 - PIPE EXIT ANGLE SHALL NOT EXCEED 12 DEGREES AND THE MANUFACTURERS RECOMMENDATIONS ON DEFLECTION.
 10. MANDRREL TESTING SHALL BE PERFORMED THROUGH THE ENTIRE LENGTH OF THE INSTALLED PIPE, FOR ALL PIPE 16-IN IN DIAMETER AND LARGER. THE MANDREL SIZE SHALL BE 90% OF THE INSIDE DIAMETER OF THE PIPE. MANDREL TESTING ON SMALLER PIPE MAY BE REQUIRED BY UTILITIES.
 11. ISOLATION VALVES SHALL BE DESIGNED AND INSTALLED AT BOTH ENDS OF THE DIRECTIONAL DRILL.
 12. ALL WORK TO BE PERFORMED WITHIN ROW OR EASEMENT.
 13. ENTIRE DIRECTIONAL DRILL TO BE SHOWN IN PLAN VIEW AND PROFILE VIEW ON CONSTRUCTION PLAN.



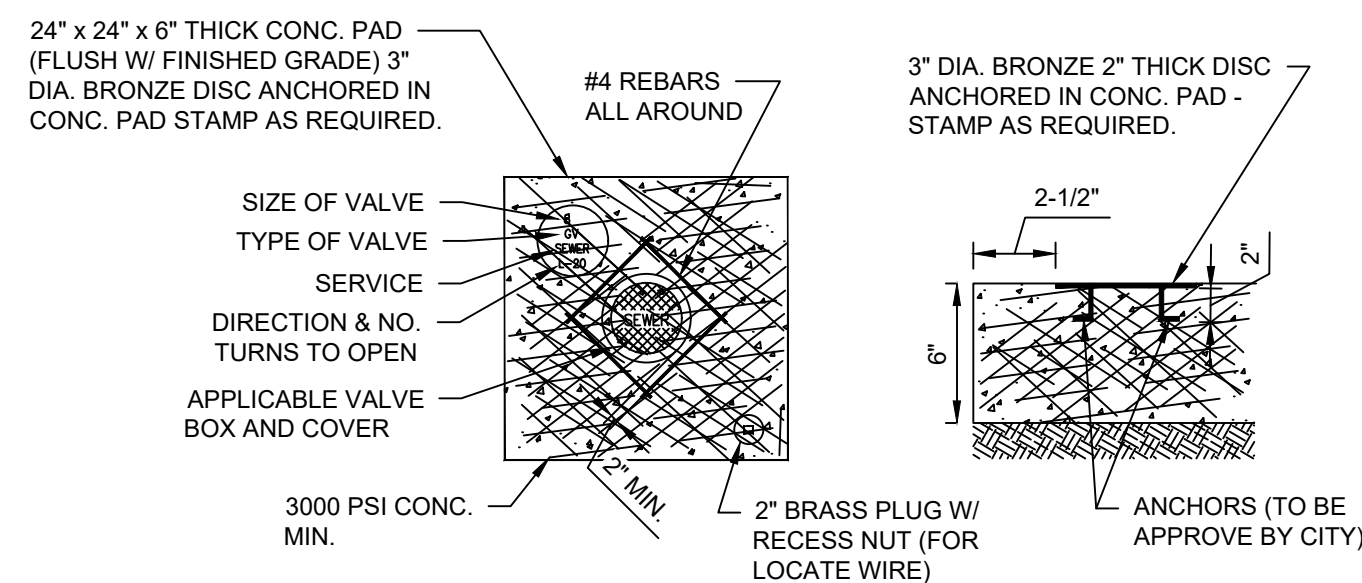
- NOTES:
1. HEAVY DUTY VALVE BOX LIDS ARE REQUIRED FOR ALL VALVE BOXES.
 2. TOP SECTION SHALL BE INSTALLED AT MID-RANGE FOR FURTHER ADJUSTMENT.
 3. HEAVY DUTY VALVE BOX LID SHALL HAVE A 5-IN MIN DEPTH AND WEIGH A MINIMUM OF 22-LBS. LID SHALL HAVE POWDER COATING PAINT AT A MIN OF 3 MILL.
 4. EXTENSION STEMS AND ALIGNMENT RINGWALL BRACKETS SHALL BE PROVIDED ON ALL BURIED VALVES. THE OPERATING NUT SHALL BE NO MORE THAN 36-IN BELOW FINISHED GRADE. MATERIAL SHALL BE MINIMUM 304 SST.
 5. ADD ADD'L SCREW EXTENSION AS REQUIRED AFTER SCREW EXTENSION EXCEEDS 24-IN.
 6. STACKING OF VALVE BOX BOTTOM SECTIONS IS NOT PERMITTED.
 7. VALVE BOX SHALL REST ON BEDDING ROCK, NOT ON VALVE, AND SHALL BE CENTERED ON OPERATING NUT.

CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL RESTRAINED VERTICAL PIPE - WASTEWATER FORCE & RECLAIMED WATER MAINS (150 PSI)	DATE:
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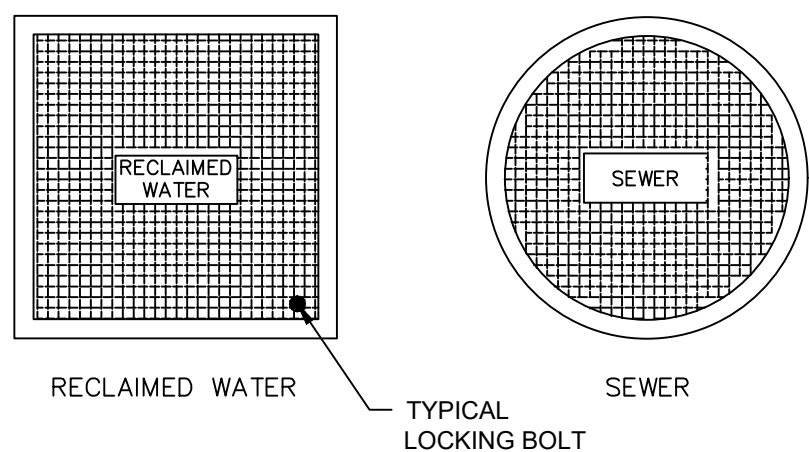
CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL THRUST COLLAR - WASTEWATER FORCE & RECLAIMED WATER MAINS (150 PSI)	DATE:
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CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL DIRECTIONAL DRILL	DATE:
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		DETAIL NO:
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CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL TYPICAL VALVE BOX	DATE:
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		C-14



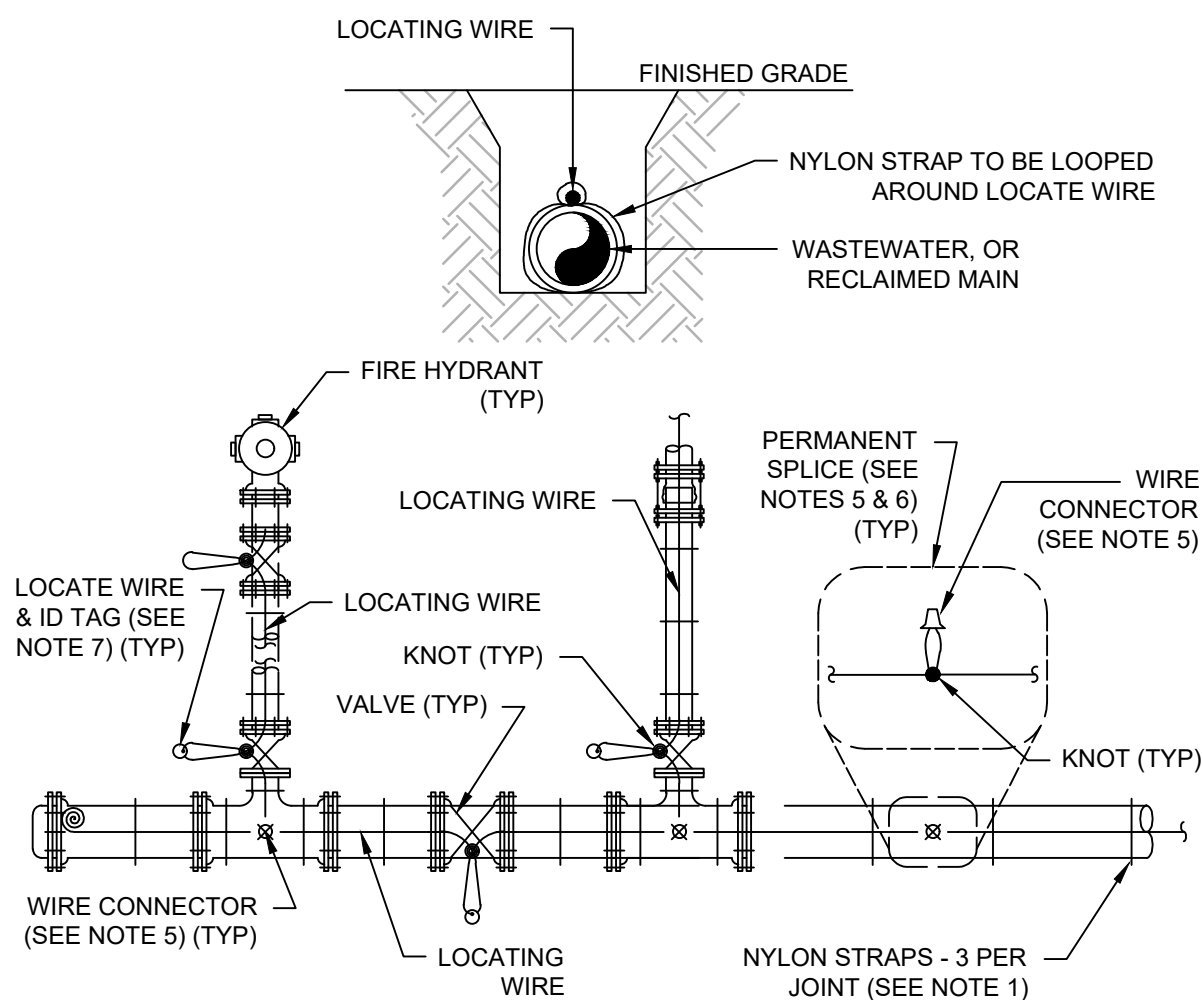
CONCRETE PAD - VALVES 3 INCHES AND LARGER



VALVE COVER

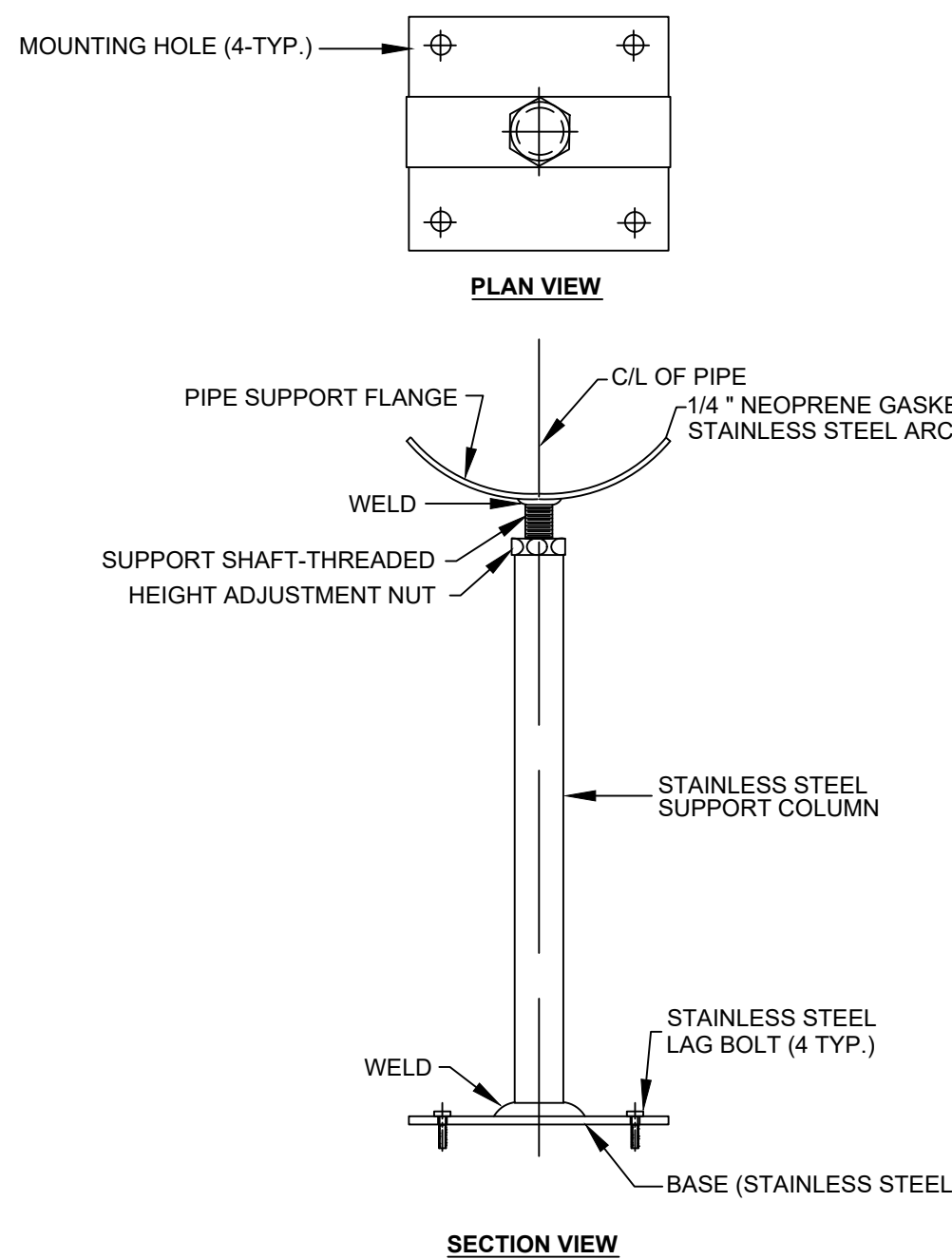
NOTES:

1. APPLY TWO COATS OF EXTERIOR ENAMEL PAINT:
PURPLE - RECLAIMED WATER
GREEN - SEWER
2. BRONZE, BRASS, OR STAINLESS STEEL IDENTIFICATION DISC SHALL BE
REQUIRED FOR ALL VALVES.
3. LOCATIONS SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND
12-IN WIRE SHALL BE COILED BACK INTO BOX AWAY FROM VALVE STEM.
4. NO VALVE SHALL BE DESIGNED OR INSTALLED WITHIN THE CURB.
5. ROUND OR SQUARE VALVE PAD TO BE UNIFORM PER PROJECT.



NOTES:

1. ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (10 GAUGE SOLID COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE WRAPPED WITH NYLON TAPE. LOCATED LOCATOR SHALL BE SECURED TO TOP OF VALVE BOX.
2. LOCATING WIRE SHALL BE CONTINUOUS INSIDE VALVE BOXES AND SHALL EXTEND 12-IN ABOVE TOP OF COLLAR.
3. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.
4. WIRE SHALL BE CONTINUOUS AND CONNECTED FOR LOCATING IN ALL DIRECTIONS.
5. JOINTS IN WIRE MUST BE MADE TO THE KING OF THE WIRE USING WIRE CONNECTORS SPECIFICALLY DESIGNED FOR DIRECT BURIAL, DIELECTRIC SILICONE GEL OR MOISTURE-RESISTANT GREASE FILLED.
6. AT ALL TRACING WIRE SPLICES, TEES, AND VALVE COLLARS, A KNOT IN THE WIRE SHALL BE MADE TO PREVENT THE WIRE FROM COMING APART.
7. REFER TO VALVE DETAILS FOR LOCATE WIRE IN AND IN VALVE BOX.



SECTION VIEW

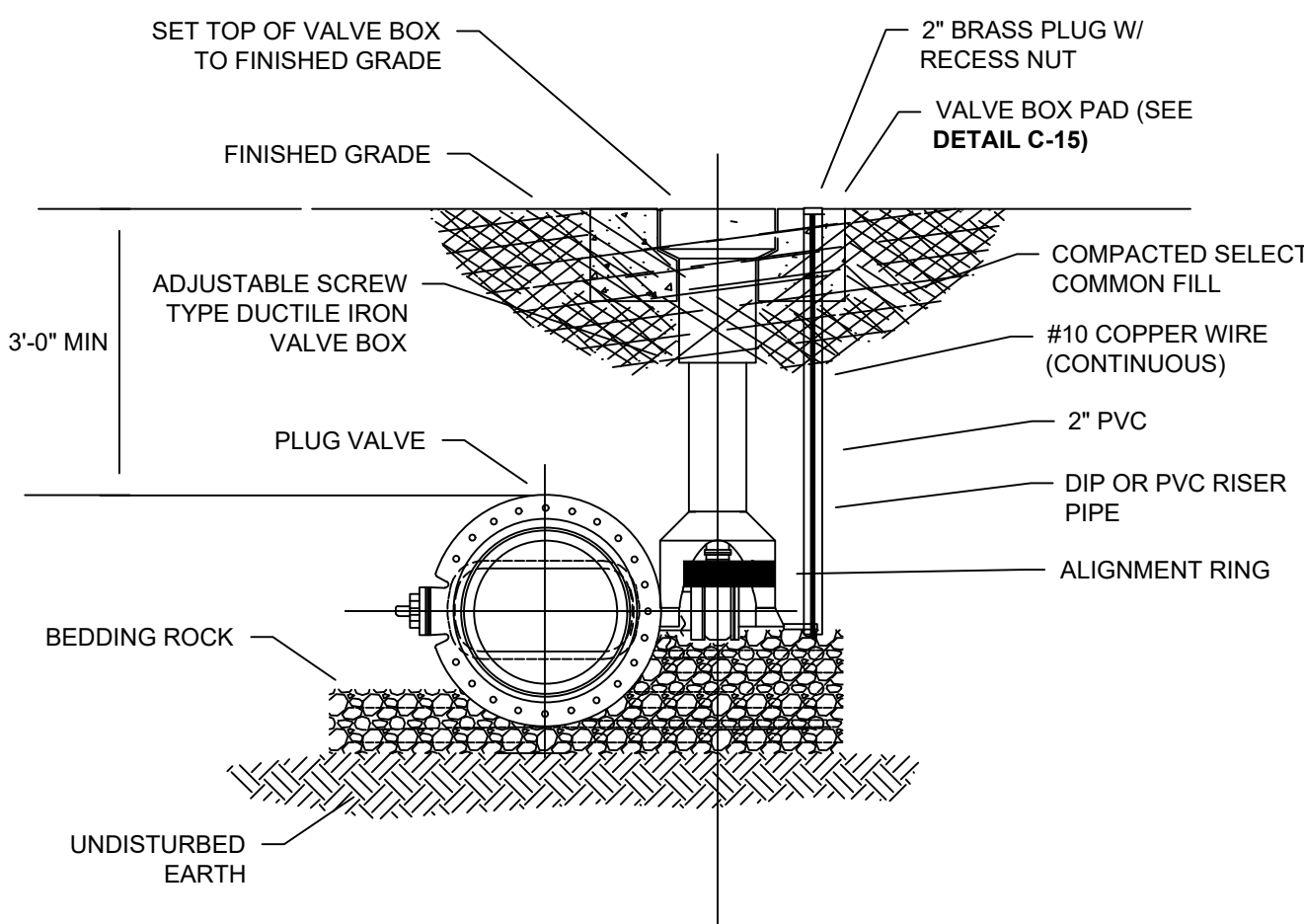
CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL TYPICAL VALVE BOX COVER AND PAD	DATE:
		5/2023
		DETAIL NO.:
		C-15

	STANDARD CONSTRUCTION DETAIL PIPE LOCATING WIRE	DATE:
		5/2023
		DETAIL NO:
		C-16

CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL PIPE SUPPORT	DATE:
		5/2023
		DETAIL NO:
		C-20

	STANDARD CONSTRUCTION DETAIL SEWER CONSTRUCTION GENERAL NOTES	DATE:
		5/2023
		DETAIL NO.:
		S-1 (PAGE 1 OF 2)

14. ALL CORING OF EXISTING MANHOLES SHALL BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY THE CITY AND REQUIRES A MINIMUM 2 BUSINESS DAYS NOTIFICATION TO THE CITY. THE CONNECTION SHALL BE SCHEDULED TO COMMENCE BETWEEN 8:00 AM AND NOON ON THE SCHEDULED DAY, WITH RESPECT TO TIE-IN CONNECTIONS AND CORING OPERATIONS, THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 AM) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
15. THE CONTRACTOR SHALL PROVIDE AND PAY FOR BYPASSING OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. SUBMIT THE BYPASS PLAN FOR APPROVAL. AS A MINIMUM, THE BYPASS PLAN SHALL INCLUDE PROPOSED DISCHARGE LOCATIONS AND PROPOSED PUMPS. REFER TO THE UTILITIES STANDARDS HANDBOOK FOR ADDITIONAL REQUIREMENTS OF THE BYPASS PUMPING.
16. THE CITY MAY REQUIRE ALL NEW SANITARY SEWER GRAVITY SYSTEMS TO BE SMOKE TESTED PRIOR TO FINAL ACCEPTANCE. ALL TESTING MUST BE DONE IN THE PRESENCE OF THE CITY'S DESIGNATED SITE INSPECTOR, AND SHALL BE AT THE CONTRACTOR'S EXPENSE.
17. THE CITY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO PERFORM VACUUM TESTING OF ALL SANITARY MANHOLES, AIR TEST SEWER MAINS, AND REQUIRES THAT ALL SANITARY SEWER MAIN LINES BE TELEVIEWED PRIOR TO FINAL ACCEPTANCE. LATERALS SHALL BE TELEVIEWED UPON DEMAND BY THE CITY PRIOR TO FINAL ACCEPTANCE WHEN IT IS SUSPECTED THAT A PROBLEM EXISTS. ALL TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE.
18. ALL GRAVITY SEWER LINES, PRIOR TO FINAL ACCEPTANCE BY THE CITY AND PRIOR TO ANY FINAL PAYING OPERATIONS, SHALL BE TELEVIEWED AT THE CONTRACTOR'S EXPENSE AND SUBMITTED TO THE CITY USING A "PAN AND TILT CAMERA" WITH DEPTH GAUGE IN FRONT OF THE CAMERA BY A CITY APPOINTED CONTRACTOR. THE CONTRACTOR SHALL RUN FROM THE SHOW MANHOLE TO THE TIE IN UPSTREAM MANHOLE. CITY INSPECTOR SHALL BE NOTIFIED IN ADVANCE AND BE PRESENT DURING THE TELEVIEWING OF THE SEWER SYSTEM. THE VIDEO SHALL BE NON-STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN VIDEO LOGS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE VIDEO SUBMISSION TO THE CITY PRIOR TO COMMENCING ANY INSTALLATION OF ASPHALT OR CONCRETE PAVEMENT. THE CITY MAY REQUIRE ADDITIONAL VIDEO TAPING OF THE MAIN OR LATERALS, AND/OR INFILTRATION/EXFILTRATION TESTS IF DEFECTS ARE APPARENT OR WORKMANSHIP IS QUESTIONABLE.
19. THE CONTRACTOR SHALL, AT ITS EXPENSE, CONDUCT DEFLECTION TESTING OF GRAVITY SEWER PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. MAXIMUM ALLOWABLE PIPE DEFLECTION IS 5%. THE CITY INSPECTOR SHALL BE NOTIFIED IN ADVANCE AND BE PRESENT DURING THE DEFLECTION TESTING. MEASURE DEFLECTION BY MANUALLY PULLING A MANDEL THROUGH THE PIPE. THE MINIMUM MANDEL OUTER DIAMETER SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 8" SEWER = 0.45" MANDEL, 8" SEWER = 7.28" MANDEL, 10" SEWER = 9.08" MANDEL, 12" SEWER = 10.79" MANDEL.
20. ALL FORCE MAIN VALVES SHALL BE ADJUSTED TO FINISHED GRADE AND THE VALVE BOX LIDS PAINTED GREEN PER THE UTILITIES STANDARDS HANDBOOK.
21. ALL FORCE MAIN VALVES SHALL BE CAST IRON SUITABLE FOR WASTEWATER SERVICE WITH PRESSURES UP TO 250 PSIG, AND SHALL BE QUARTER-TURN, NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUG, MANUFACTURED AND TESTED IN ACCORDANCE WITH AWWA C517. PORT AREAS OF NOT LESS THAN 100% OF PIPE AREA SHALL BE SUFFICIENT FOR BYPASS.
22. ALL FORCE MAIN VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB OR BY METAL TIES INTO THE PAVEMENT. TAPPING VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB OR PAVEMENT WITH THE ARROW POINTING TO THE DIRECTION OF THE PRESSURE MAIN RUN.



NOTES:

1. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3' OF FINISHED GRADE.
2. LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.

CITY OF EVERGLADES CITY 	STANDARD CONSTRUCTION DETAIL SEWER CONSTRUCTION GENERAL NOTES		DATE:
			5/2023
			DETAIL NO.:
			S-1 (PAGE 2 OF 2)

	STANDARD CONSTRUCTION DETAIL PLUG VALVE	DATE:
		5/2023
		DETAIL NO:
		S-8

	STANDARD CONSTRUCTION DETAIL LIFT STATION CONSTRUCTION GENERAL NOTES	DATE:
		5/2023
		DETAIL NO.:
		S-10 (PAGE 1 OF 2)

	STANDARD CONSTRUCTION DETAIL LIFT STATION CONSTRUCTION GENERAL NOTES	DATE:
		5/2023
		DETAIL NO.:
		S-10 (PAGE 2 OF 2)

- LIFT STATION CONSTRUCTION GENERAL NOTES:**

1. REFER TO THE OVERALL CONSTRUCTION GENERAL NOTES AND UTILITIES STANDARDS HANDBOOK RELATED TO LIFT STATIONS, INCLUDING PUMPS, VALVES, FITTINGS, PIPE, FENCING, TRENCHING, TESTING AND OTHER REQUIREMENTS RELATED TO LIFT STATION CONSTRUCTION.
2. ALL EXPOSED ABOVE GRADE PIPE, VALVES, AND FITTINGS SHALL BE PAINTED PER THE UTILITIES STANDARDS HANDBOOK.
3. PRESSURE GAUGES SHALL BE STAINLESS STEEL WITH A STAINLESS STEEL DIAPHRAGM; 4-1/2" DIAL AND HAVE SUFFICIENT RANGE TO READ 20% ABOVE THE DESIGN HEAD CONDITION (0-50 PSI).
4. THE INTERIOR OF THE WET WELL SHALL BE LINED WITH HDPE, MINIMUM OF 5.0 MM THICKNESS, AS PER APPROVED MANUFACTURERS LIST. THE OUTSIDE OF THE WET WELL SHALL BE COATED WITH TWO (2) COATS OF WATER BASED POLYAMINE EPOXY COATING, MIN. 8 MILS THICK PER COAT.
5. WET WELL ACCESS HATCHES SHALL BE ALUMINUM AND SHALL BE NO LESS THAN 36"x48". A LARGER WET WELL HATCH SIZE MAY BE REQUIRED PER THE PUMP MANUFACTURER. ALL HATCHES SHALL BE NO LESS THAN H20 LOAD RATED. DOORS SHALL HAVE FLUSH ALUMINUM DROP HANDLE WITH A LOCKSET AND AN AUTOMATIC HOLD OPEN ARM WITH RELEASE HANDLE. ALL FASTENERS AND ACCESSORIES SHALL BE 316 STAINLESS STEEL. HATCH FRAMES TO BE INTEGRALLY CAST INTO CONCRETE TOPS. THE HATCHES SHALL BE FLOOD TIGHT.
6. THE UNDERSIDE OF ALUMINUM ACCESS COVERS AND ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH A SUITABLE BITUMINOUS PAINT. ALL NUTS, BOLTS, WASHERS AND MISCELLANEOUS HARDWARE ARE TO BE 316 STAINLESS STEEL.
7. THE CONTRACTOR SHALL COORDINATE WITH POWER COMPANY FOR ELECTRICAL SERVICE TO THE LIFT STATION SITE, AND SHALL MEET ALL POWER COMPANY REQUIREMENTS AND SHALL PAY ALL FEES ASSIGNED BY THE POWER COMPANY.
8. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PREVENT FLOTATION OF THE WET WELL DUE TO HIGH GROUND WATER TABLE.
9. ALL WET WELL CONSTRUCTION JOINTS TO BE SEALED WITH "RAM-NECK" TAPE AND ANHYDROUS CEMENT TO A LEAK FREE STATE.
10. ALL EXPOSED AND EMBEDDED CONDUITS TO BE PVC.
11. TESTING OF THE FORCE MAIN AND LIFT STATION IS REQUIRED. THE LIFT STATION SHALL BE TESTED WITH FIRST PUMP ON, SECOND PUMP ON, AND BOTH PUMPS ON. GENERATOR TESTING SHALL BE IN ACCORDANCE WITH THE UTILITIES STANDARDS HANDBOOK.

- LIFT STATION CONSTRUCTION GENERAL NOTES (CONT.):**

12. ALL SUPPORTS AND HARDWARE FOR ELECTRICAL EQUIPMENT SHALL BE ALUMINUM OR STAINLESS STEEL.
13. NO PENETRATIONS THROUGH THE TOP OF THE CONTROL CABINET FOR LIGHTS OR HORNS SHALL BE PERMITTED.
14. THE LIFT STATION SHALL BE EQUIPPED WITH A PROGRAMMABLE LOGIC CONTROLLER (PLC) /RTU WITH CONFIGURABLE I/O TO ALLOW MONITORING AND CONTROL OF THE PUMP STATION. INTERFACE TO THE PLC WILL BE BY 2 LINE DISPLAY AND KEYPAD. SAMPLE SCREENS SHALL BE PROVIDED TO THE CITY OF EVERGLADES CITY FOR APPROVAL. THE PLC SHALL INCLUDE AN INTEGRATED CELLULAR TEXT MODEM SYSTEM THAT APPLIES WITH ALL APPLICABLE FCC REQUIREMENTS. TEXT MESSAGING WILL BE THE PRIMARY MEANS OF COMMUNICATION. THE CELLULAR ANTENNA SHALL BE A MULTI-BAND EXTERNAL ANTENNA. FREQUENCY RANGE: 824-960/1071-1990 MHZ, 2 DBI GAIN. REFER TO THE UTILITIES STANDARDS HANDBOOK FOR ADDITIONAL REQUIREMENTS.

(NOTE: NOT ALL SYMBOLS SHOWN IN LEGEND ARE NECESSARILY USED ON PLANS)

1. SUBMITTALS ARE REQUIRED TO BE SUBMITTED TO COLLIER COUNTY UTILITIES FOR REVIEW.
2. PROVIDE SHOP DRAWINGS FROM A FLORIDA REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT THE ALUMINUM POST FOUNDATION AND RACK SHOWN IN RISER DIAGRAM MEET CURRENT FLORIDA BUILDING CODE AND WIND LOAD REQUIREMENTS.
3. COLLIER COUNTY WATER SEWER DISTRICT UTILITIES STANDARDS MANUAL SHALL GOVERN ALL MATERIALS AND INSTALLATION.
4. REFER TO COLLIER COUNTY WATER SEWER DISTRICT UTILITIES STANDARDS MANUAL SECTION 2 TECHNICAL SPECIFICATIONS, DIVISION 33, SECTION 333200, PARAGRAPH M FOR MAG METER REQUIREMENTS.
5. REFERENCES SHOWN IN PARENTHESES IN ELECTRICAL SHEET INDEX ARE TO COLLIER COUNTY WATER-SEWER DISTRICT UTILITIES STANDARDS MANUAL, SECTION 3, UTILITIES DETAIL DRAWINGS.
6. COORDINATE WITH LCEC DISTRIBUTION ENGINEER (JUAN GARCIA) 239-656-2356.

NOT ALL SYMBOLS USED

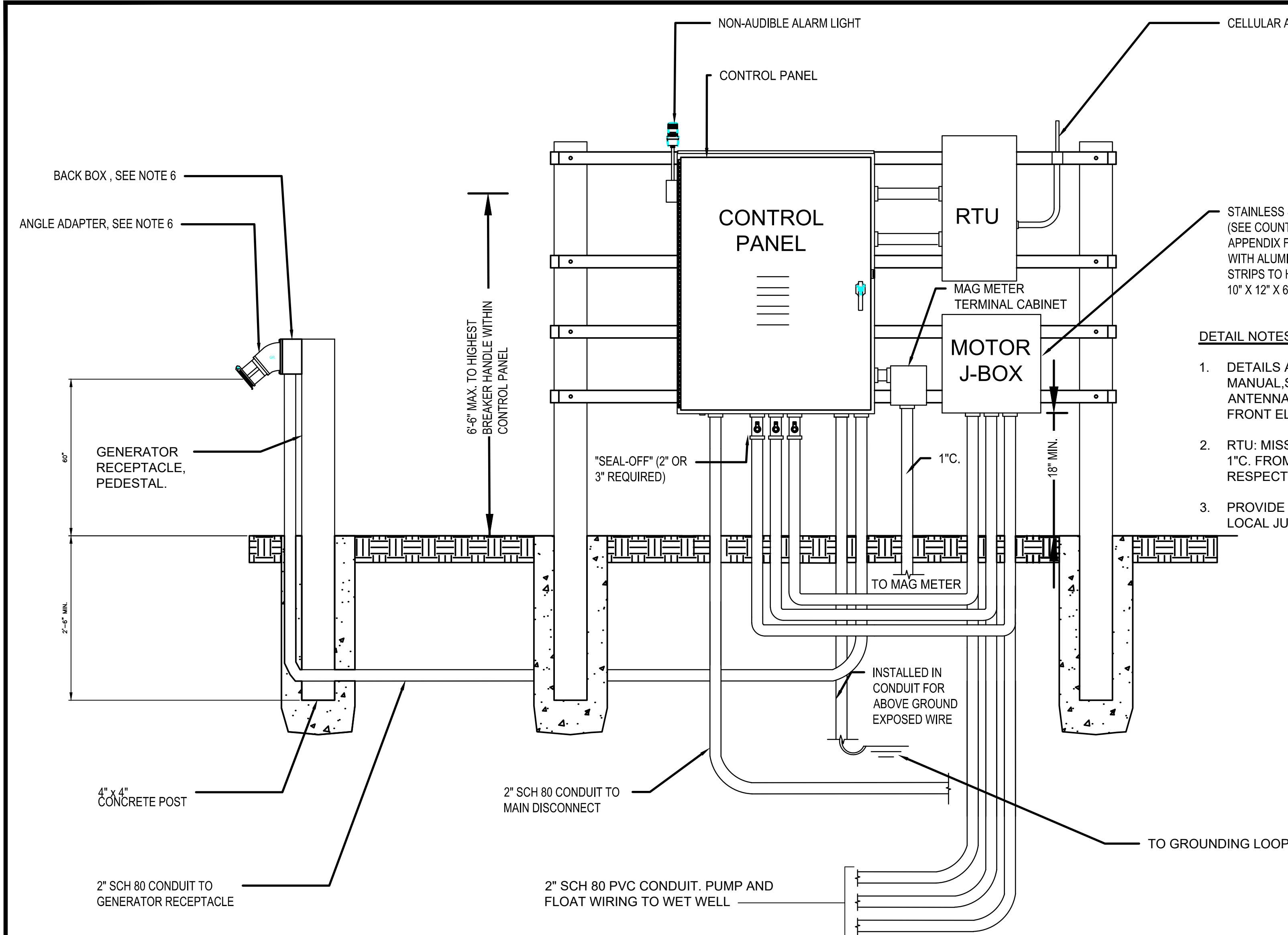
Designed by:	A.W.
Drawn by:	A.W.
Checked by:	K.B
Approved by:	K.B.
Job No.:	E9704
Date:	10/16/2025
Plans Prepared By: CPH, Inc. 1992 SW 1st. St. Miami, FL 33135 Ph: 305.274.4805 Licenses: Eng. C.O.A. No. 3215 Survey L.B. No. 7143 Arch. Lic. No. AA2600926 Lndscp. Lic. No. LC0000298	

Sheet No.

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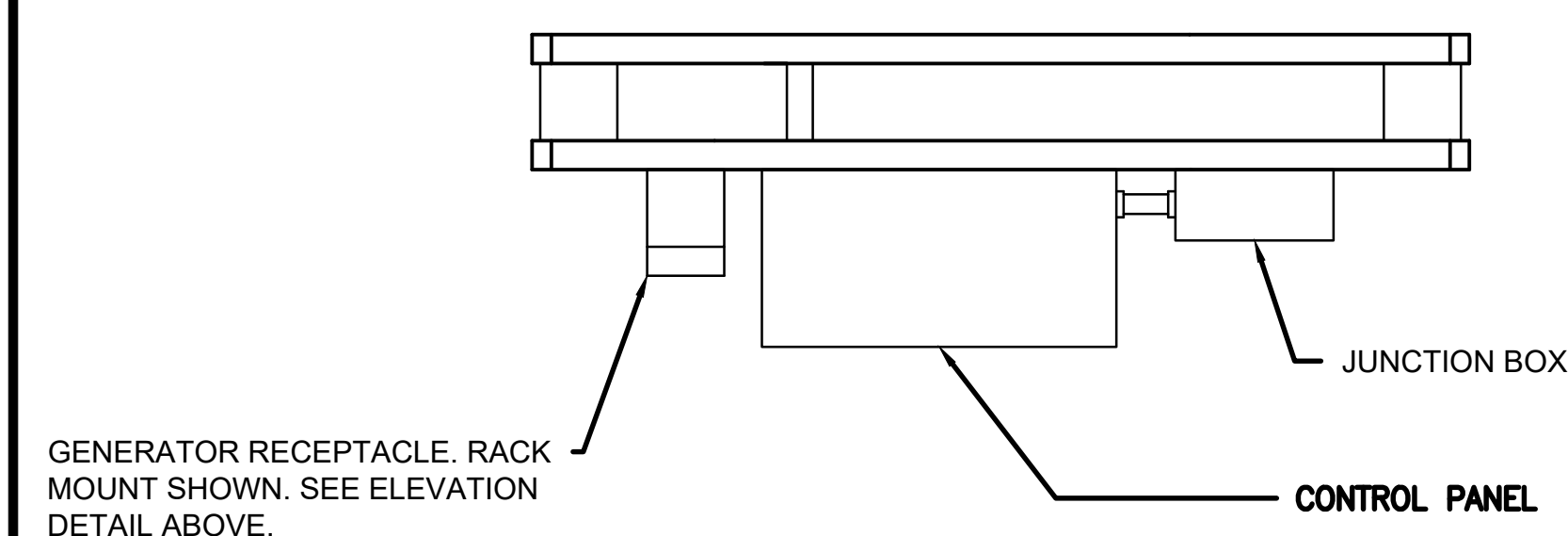
Always call 811 two full business days before you dig to have underground utilities located and marked.

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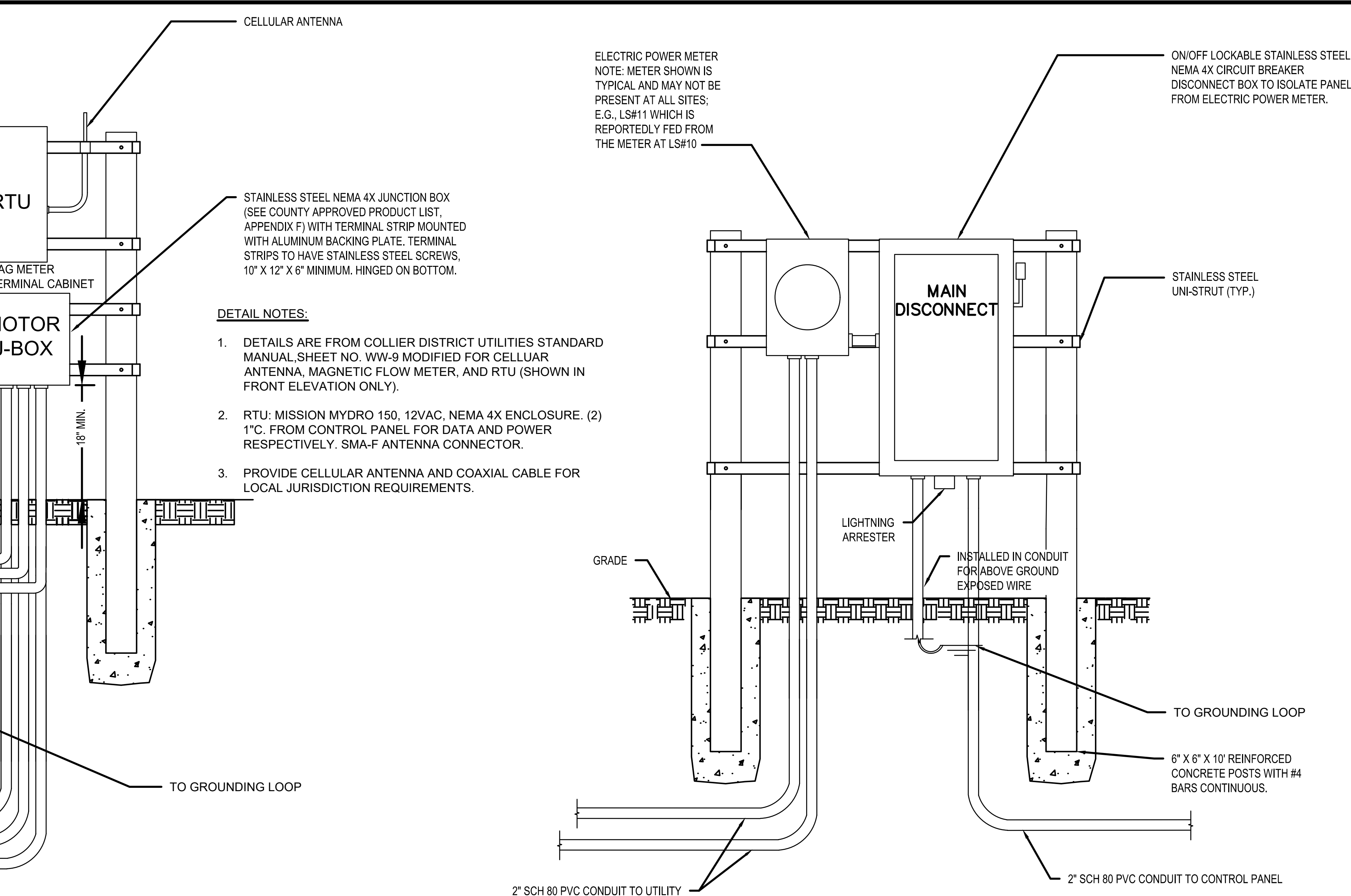
PUMP STATION CONTROL PANEL DETAIL - WEST ELEVATION

SCALE: 1" = 4'-0"



PUMP STATION CONTROL PANEL DETAIL - PLAN VIEW

SCALE: 1" = 4'-0"



ELECTRICAL SERVICE RISER - SOUTH ELEVATION

SCALE: 1" = 4'-0"

- DETAIL NOTES:

1. DETAILS ARE FROM COLLIER DISTRICT UTILITIES STANDARD MANUAL SHEET NO. WW-9 MODIFIED FOR CELLULAR ANTENNA, MAGNETIC FLOW METER, AND RTU (SHOWN IN FRONT ELEVATION ONLY).
2. RTU: MISSION MYDRO 150, 12VAC, NEMA 4X ENCLOSURE. (2) 1" C. FROM CONTROL PANEL FOR DATA AND POWER RESPECTIVELY. SMA-F ANTENNA CONNECTOR.
3. PROVIDE CELLULAR ANTENNA AND COAXIAL CABLE FOR LOCAL JURISDICTION REQUIREMENTS.

- GENERAL NOTES:

1. #10 STRAND MINIMUM FROM CONTROL PANEL TO J-BOX.
2. LIGHTNING ARRESTER (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F) MUST BE INSTALLED EXTERNALLY ON LOAD SIDE OF DISCONNECT BETWEEN DISCONNECT AND MAIN BREAKER. THE PENETRATION THROUGH THE DISCONNECT MUST BE MADE BELOW THE WORKING MECHANISM OF THE DISCONNECT.
3. PUMP CONTROL PANEL (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F) WITH ALL COMPONENTS FOR OPERATING TWO PUMPS AND LIQUID LEVEL REGULATORS; GENERATOR RECEPTACLE AND ANGLE ADAPTER (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F) AND NEMA 4X STAINLESS STEEL ENCLOSURE.
4. GROUND WIRE FROM SERVICE SHALL BE INSTALLED IN SCH 80 PVC CONDUIT.
5. ALL CONDUIT SHALL BE SCH 80 PVC
6. GENERATOR RECEPTACLE AND ANGLE ADAPTER (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F).
7. CONFIGURATION OF PUMP STATION COMPONENTS MAY BE RE-ARRANGED WITH APPROVAL OF ENGINEER AND UTILITY DEVIATION REVIEW, BUT MUST OTHERWISE CONFORM TO THIS DETAIL.

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Drawn by:	A.W.
Checked by:	K.B
Approved by:	K.B.
Job No.:	E9704
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Lndscp. Lic. No. LC0000298

DETAILS

EVERGLADES CITY CHOKOLOSKEE

MASTER PUMP STATION REHABILITATION

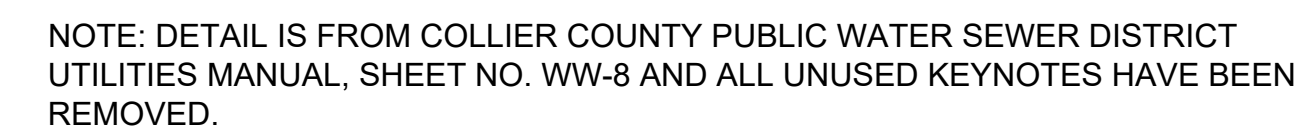
SECTIONS 26 & 30, TOWNSHIP 63 SOUTH

RANGES 29 & 30 EAST

COLLIER COUNTY, FLORIDA

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E-2.0

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E-2.1

E-2.2