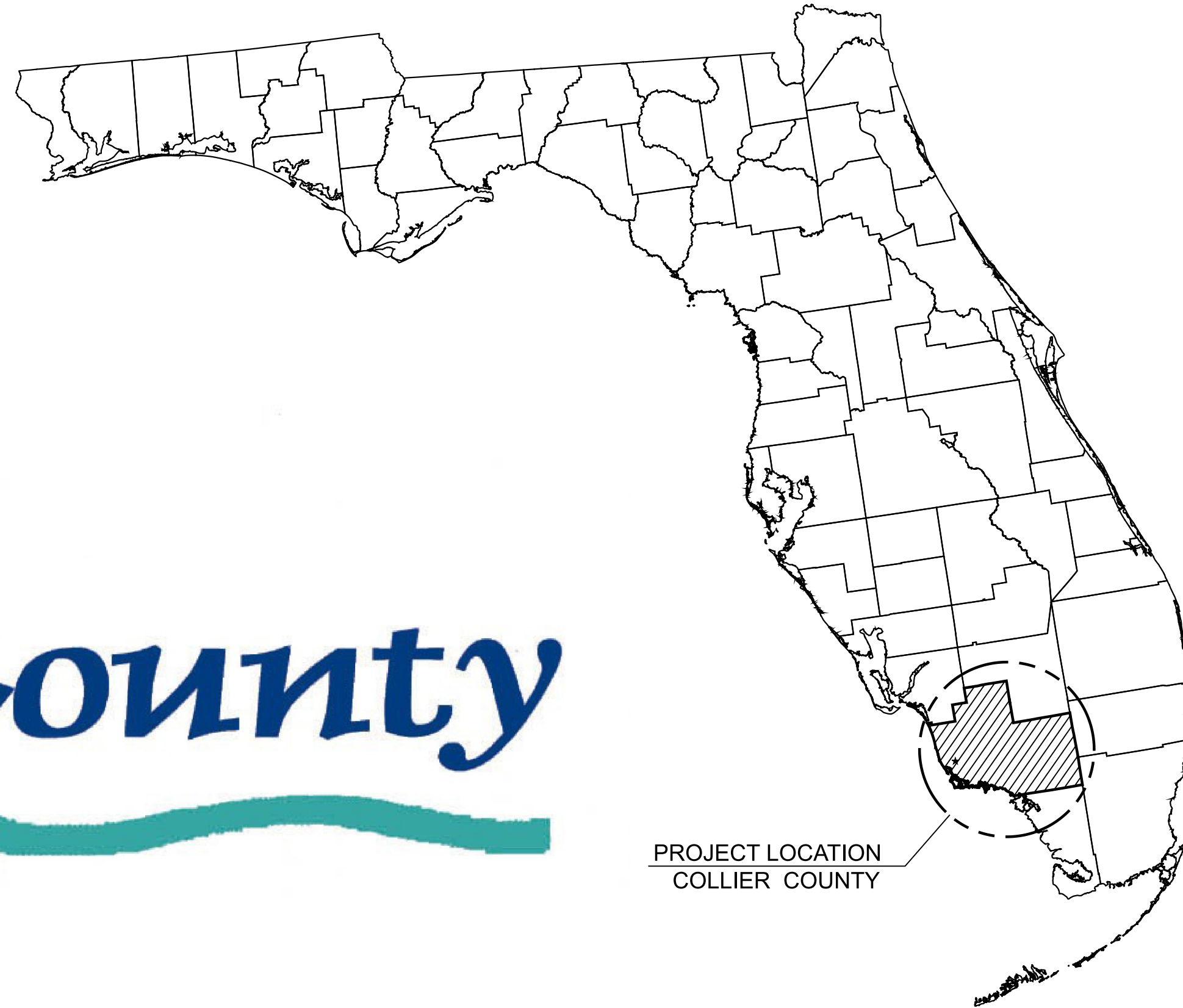


Plot Date: 4-APR-2024 5:33:09 AM  
User: svcPW  
Model: Layout1  
ColorTable: gshade.cab  
DesignScript: Carollo\_Sig\_Pen\_v0905.pen  
PlotScale: 1:1  
LAST SAVED BY: jfisz

THE BOARD OF COLLIER COUNTY COMMISSIONERS

- DISTRICT 1 - RICK LOCASTRO
- DISTRICT 2 - CHRIS HALL
- DISTRICT 3 - BURT L. SAUNDERS
- DISTRICT 4 - DAN KOWAL
- DISTRICT 5 - WILLIAM L. MCDANIEL, JR.



PROJECT LOCATION MAP

NO SCALE



PROJECT LOCATION MAP

NO SCALE

PROJECT NO. 70136.2.3, 70136.1.7, 70136.1.9

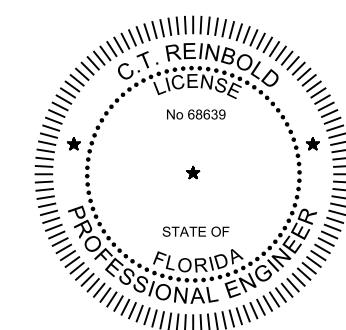
CAROLLO PROJECT NO. 202327

CONSTRUCTION OF

NORTH COUNTY REGIONAL WATER TREATMENT PLANT  
WATER FLOW METER REPLACEMENT, SOUTH COUNTY  
REGIONAL WATER TREATMENT PLANT FLOW METERS AND  
LIME SLAKERS REPLACEMENT

BID SET - MARCH 2024

DISCIPLINE: GENERAL, CIVIL, DEMOLITION AND MECHANICAL



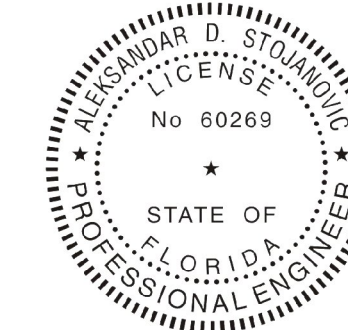
**carollo**  
2056 VISTA PARKWAY, SUITE 400  
WEST PALM BEACH, FL 33411  
PHONE: 561-868-6403 FAX: 561-868-6401  
CA 00008571

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD AND ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL ON THE COVER SHEET.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
301 NORTH CATTLEMEN ROAD SUITE 302  
SARASOTA, FL. 34232  
PHONE: (941) 371-9832 FAX: (941) 371-9873  
CA 00008571

DISCIPLINE: ELECTRICAL AND INSTRUMENTATION



**ADS**  
Engineering  
4701 N FEDERAL HWY, SUITE 390  
POMPANO BEACH, FLORIDA 33064

JOB NO.	202327
DRAWING NO.	00G01
SHEET NO.	1 OF 25



Plot Date: 12-MAR-2024 2:26:02 PM

User: svcPW

PlotScale: 1:1

DesignScript: Carollo\_Sig\_Pen\_v0905.pen

ColorTable: gshade.ctb

Model: Layout1

LAST SAVED BY: iyo

SHEET NO.	DRAWING NO.	DESCRIPTION
<b>GENERAL</b>		
1	00G01	COVER SHEET, AND LOCATION AREA MAPS
2	00G02	SHEET INDEX
3	00G03	NOTES, LEGEND, AND SYMBOLS
<b>CIVIL</b>		
4	00C01	NCRWTP SITE AND YARD PIPING PLAN
5	00C02	SCRWTP SITE AND YARD PIPING PLAN
<b>DEMOLITION</b>		
6	00D01	LIME SLAKER EQUIPMENT DEMOLITION PLAN AND SECTION
7	00D02	LIME SLAKER EQUIPMENT DEMOLITION PHOTOS
<b>MECHANICAL</b>		
8	00M01	LIME SLAKER EQUIPMENT MODIFICATIONS PLAN AND SECTION
9	00M02	NCRWTP FLOW METER MODIFICATIONS PLAN & SECTION
10	00M03	SCRWTP FLOW METER MODIFICATIONS PLAN & SECTION 1
11	00M04	SCRWTP FLOW METER MODIFICATIONS PLAN & SECTION 2
<b>TYPICAL</b>		
12	00TM01	MECHANICAL TYPICALS
13	00TS01	STRUCTURAL TYPICALS
14	TE-1	DETAILS SHEET NO. 1
15	00TN01	DETAILS SHEET NO. 1
<b>ELECTRICAL</b>		
16	00GE01	ELECTRICAL LEGEND
17	00GE02	ELECTRICAL NOTES
18	00E01	SITE PLAN
19	00E02	SCRWTP FLOWMETERS LOCATION PLAN
20	00E03	CHEMICAL BUILDING PLAN
21	00E04	NCRWTP SITE PLAN
22	00E05	RISER DIAGRAMS
<b>INSTRUMENTATION</b>		
23	00GN01	INSTRUMENTATION LEGEND
24	00N01	FLOWMETERS P&ID
25	00N02	LIME SLAKING SYSTEM P&ID

	<b>BID SET</b>	DESIGNED BH DRAWN HV CHECKED GDM DATE MARCH 2024		THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	 301 NORTH CATTLEMEN ROAD, SUITE 302 SARASOTA, FL 343232 PHONE: (941) 371-9832 FAX: (941) 371-9873 CA 00008571		<b>COLLIER COUNTY</b> SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT GENERAL <b>SHEET INDEX</b>	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. <b>00G02</b> SHEET NO. 2 OF 25
--	----------------	---	---	--	---	---	---	---	--



Plot Date: 12-MAR-2024 2:26:14 PM  
User: svcpw  
Model: Layout1  
ColorTable: gshade.ctb  
DesignScript: Carollo\_Sig\_Pen\_v0905.pen  
PLOTSCALE: 1:1  
LAST SAVED BY: hvo

### GENERAL NOTES

### GENERAL NOTES (CONT'D)

### DETAIL REFERENCES

### HATCH PATTERNS

- 1. FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON EACH SHEET.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK.
- 3. UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
- 4. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF WORK, DETAILS SHALL BE IN THE SAME AS FOR OTHER SIMILAR WORK.
- 5. CONTRACTOR SHALL COMPLY WITH LOCAL CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS.
- 6. PRIOR TO EXCAVATION FOR NEW STRUCTURES, ELECTRICAL CONDUIT, FABRICATION OF NEW PIPING AND/OR OTHER PROPOSED UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING PIPING AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL TEMPORARILY RELOCATE CONFLICTING EXISTING UTILITIES AT TIE-IN/CONNECTION LOCATIONS AND REINSTALL THEM AS REQUIRED TO ELIMINATE THE CONFLICT AT NO ADDITIONAL COST TO THE OWNER.
- 7. ALL PIPELINES 12" AND LARGER SHALL HAVE A MINIMUM COVER OF 36" UNLESS THE COVER DEPTH IS SPECIFICALLY INDICATED ON THE DRAWINGS. PIPE SMALLER THAN 12" SHALL HAVE A MINIMUM COVER OF 30" UNLESS NOTED OTHERWISE. PIPES SHALL BE ROUTED AS SHOWN UNLESS MINOR REVISIONS ARE NECESSARY TO MISS EXISTING PIPES, STRUCTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FITTINGS AND ADAPTERS REQUIRED TO MAKE THE ROUTING CHANGES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INCLUDE COST FOR THIS IN THE BID.
- 8. EXISTING FACILITY AND UTILITY INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM AVAILABLE RECORDS OR ELECTRONIC FILES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR FACILITIES AND UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, SIZES, MATERIAL TYPES, AND ELEVATIONS SHOWN AROUND OR NEAR AREAS OF NEW CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
- 9. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN THAT ARE TO REMAIN IN PLACE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ORIGINAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- 10. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING PIPE, EQUIPMENT, ETC. AS REQUIRED AND SHALL PROVIDE ALL FITTINGS, ADAPTERS, AND APPURTENANCES REQUIRED TO MAKE THE CONNECTIONS. PROVIDE ALL SUPPORTS REQUIRED FOR A RIGIDLY SUPPORTED COMPLETE AND WORKING SYSTEM.
- 11. ADJUST ALL VALVE BOXES, VAULTS, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED. MANHOLES IN OPEN FIELDS SHALL BE SET TWELVE INCHES ABOVE FINISHED GRADE AND VAULTS SHALL BE SIX INCHES ABOVE FINISHED GRADE.
- 12. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FL, INC. (SUNSHINE 811) TO COORDINATE LOCATION OF UNDERGROUND UTILITIES.
- 13. CONTRACTOR SHALL VERIFY THAT PIPING SHOWN TO BE ABANDONED OR AS ABANDONED PREVIOUSLY IS NO LONGER IN SERVICE. LINES IN SERVICE SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED BY THE PLANT.
- 14. ALL EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE OR REMOVED MAY NOT BE SHOWN. WHERE PIPING IS TO BE ABANDONED AND MUST REMAIN IN SERVICE UNTIL COMPLETION OF OTHER PHASES OF WORK, AND IT CONFLICTS WITH NEW PIPING, TEMPORARILY RELOCATE PIPING AS REQUIRED TO MAINTAIN SERVICE BY THE PLANT.
- 15. CONTRACTOR SHALL REROUTE THE EXISTING PIPING IF REQUIRED TO MISS THE PROPOSED STRUCTURES. THE EXISTING PIPE SHALL REMAIN IN SERVICE UNTIL NEW PIPING IS READY TO BE PLACED INTO SERVICE. DOWNTIME SHALL BE A MAXIMUM OF 2 HOURS, UNLESS SPECIFIED OR SHOWN OTHERWISE.
- 16. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS IN THE VICINITY OF ANY OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL ABIDE BY THE NATIONAL ELECTRIC CODE AND ANY REQUIREMENT BY THE OWNER OF THE ELECTRIC LINES.
- 17. PROVIDE ALL SHEETING/SHORING REQUIRED TO PROTECT EXISTING STRUCTURES, PIPES AND FACILITIES.
- 18. ALL MATERIAL AND CONSTRUCTION METHODS USED FOR THE PROPOSED IMPROVEMENTS SHALL CONFORM WITH THE COLLIER COUNTY LAND DEVELOPMENT CODE, THE COLLIER COUNTY WATER-SEWER DISTRICT UTILITIES STANDARDS MANUAL, THE APPROVED TECHNICAL STANDARDS AND SPECIFICATIONS, AND ALL FEDERAL STATE, AND LOCAL REGULATIONS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGH THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS BEFORE COMMENCING WORK.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, DISPOSE, REPAIRING, OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, SIDEWALKS, BOLLARDS, SIGNS, STORM CULVERTS, FENCES, AND LANDSCAPING AS REQUIRED BY OWNER, ENGINEER OF RECORD, AND/OR OTHER GOVERNING ENTITIES.
- 22. ALL DISTURBED AREAS SHALL BE RESTORED, INCLUDING REGRADING, TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED.
- 23. CONTRACTOR SHALL BE RESPONSIBLE FOR REGRADING AND REPLANTING VEGETATION IN ALL AREAS DISTURBED BY THE CONSTRUCTION.
- 24. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS.
- 25. NO FIELD CHANGES OR DEVIATION FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE COUNTY IN WRITING.
- 26. ELEVATIONS SHOWN HEREON ARE BASED ON NGVD 29 (NATIONAL GEODETIC VERTICAL DATUM 1929) UNLESS OTHERWISE NOTED.

- 27. NO CONNECTIONS TO, OR ANY OTHER CONSTRUCTION SHALL BE PERFORMED ON AN EXISTING UTILITY MAIN OR STRUCTURE WITHOUT THE PRESENCE OF A COLLIER COUNTY UTILITY INSPECTOR.
- 28. CONTRACTOR SHALL CONFIRM LIMITS OF STAGING ARE WITH PLANT MANAGER.
- 29. EXCAVATION MUST MEET OSHA REQUIREMENTS AND CONTRACTOR SHALL CONFORM TO THE GUIDELINES SET FOR IN THE TRENCH SAFETY ACT THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE THAT THE TRENCH EXCAVATION WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
- 30. CONTRACTORS SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES IN CONSTRUCTION AREA. ANY DAMAGES TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF THE PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNER OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/ PIPE REPAIR OR REPLACEMENT. CONTRACTOR SHALL BE AWARE THAT THIS IS AN EXISTING WATER TREATMENT PLANT SITE. NEW WORK HAS BEEN DESIGNED BASED ON THE BEST AVAILABLE INFORMATION TO UTILITIES MAY REQUIRE MINOR FIELD ADJUSTMENTS OR HAND DIGGING TO MINIMIZE DAMAGE TO EXISTING FEATURES.
- 31. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 32. DEMOLITION WORK SHALL BE PERFORMED SO AS NOT TO DISTURB ANY STRUCTURES, PIPING, AND UTILITIES THAT ARE TO REMAIN. ALL DAMAGES MUST BE REPAIRED IMMEDIATELY AND RESTORED TO ORIGINAL WORKING CONDITIONS.
- 33. AFTER DEMOLITION, RESTORE EXISTING SURFACES AT DEMOLITION SITE BY REMOVING IRREGULARITIES, AND STABILIZING WITH GRANULAR MATERIALS OR SOO AS NEEDED SO THAT SURFACES APPEAR CONSISTENT WITH SURROUNDINGS.
- 34. PHOTOGRAPHS SHOWN FOR CLARITY, CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ALL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 35. ALL DEBRIS FROM DEMOLITION TO BE DISPOSED OF PROPERLY OFFSITE, EXCEPT WHEN NOTED OTHERWISE.

### SYMBOLS

BRACKET		PIPE CONTINUATION (SINGLE LINE)	
BREAK LINE		KEY TAG	
PIPE BREAK PLAN VIEW		KEY NOTE	
PIPE BREAK CROSS SECTION		REVISION DELTA	
SCALE		EXISTING ELEVATION	
NORTH ARROW/PLANT NORTH		ELEVATION	
PIPE TAG		EQUIPMENT/DEVICE TAG AND NUMBER	
		EQUIPMENT	
		EX-EQUIP = EXISTING EQUIPMENT	
		EF-EQUIP = FUTURE EQUIPMENT	
		PIPE TAG	
		PIPE SIZE	
		FLOW STREAM	
		SIZE FLOW STREAM	
		EX-SIZE FLOW STREAM = EXISTING	
		EF-SIZE FLOW STREAM = FUTURE	

**811**  
Know what's below.  
Call before you dig.  
(800) 432-4770

PLAN/TITLE: **A PLAN TITLE**  
FILE: FILE  
PLAN NOT REFERENCED

SECTION CUT: **C** VIEW  
- = SHOWN ON SAME DRAWING  
##X## = SEE INDICATED DRAWING

SECTION OR DETAIL TITLE W/ REFERENCE: **C/1 SECTION/DETAIL TITLE**  
SCALE: SCALE  
FILE: FILE  
DRAWING CUT ORIGINATION

DETAIL CALL-OUT (ENLARGED): **1** VIEW  
##X## SEE INDICATED DRAWING

DRAWING REFERENCE: **##X##**  
AREA DESIGNATOR (WHEN APPLICABLE)  
DISCIPLINE DESIGNATOR  
CONSECUTIVE SHEET NUMBER

TYPICAL DETAIL REFERENCE: **? TYP** TYPICAL DETAIL #

EXTERIOR ELEVATION VIEWS: **A ##X##**

PHOTO LOCATION: **#** ARROW INDICATES POINT OF VIEW

GRID BUBBLE: **A 1**

TYPICAL DETAIL NUMBER: **? TYP**

LINE 3  
LINE 1  
LINE 2

MOD: MODIFICATION NOTE  
S = STANDARD  
J = JOB SPECIFIC  
R = REVISED  
N = NOTE TO TYPICAL DETAIL USER

SHT # OF # SHEETS IN DETAIL  
VER DATE DATE CREATED (REVISED)

AGGREGATE BASE COURSE (ABC)		GRATING	
ASPHALT PAVING		LANDSCAPING	
(WITH AERIAL)		RIPRAP	
BEDROCK		EXISTING/ UNDISTURBED SOIL	
CLSM		STRUCTURAL FILL OR BACKFILL	
CONCRETE (ALL CLASSES)		STEEL	
DRAIN ROCK		TREAD PLATE	
DEMOLISH AND DISPOSE		STAGING AREA	
GRAVEL		DEMOLISH AND SALVAGE	

### LINE WORK

CONSTRUCTION		NEW		EXISTING	
FENCE					
GUARDRAIL					
FUTURE CONSTRUCTION					
CENTER LINE					
HIDDEN LINE					
REMOVE AND/OR ABANDON					
GATE					
MATCH LINE					
					MATCH LINE SEE DWG ##X##

REV	DATE	BY	DESCRIPTION
1			
2			
3			

BID SET

DESIGNED BH	
DRAWN HV	
CHECKED GDM	
DATE MARCH 2024	

C. T. REINBOLD  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
NO. 68639

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL. 343232  
PHONE: (941) 371-9832 FAX: (941) 371-9873  
CA 00008571

**Collier County**

COLLIER COUNTY

SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT

GENERAL

NOTES, LEGEND, AND SYMBOLS

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202327

DRAWING NO. 00G03

SHEET NO. 3 OF 25



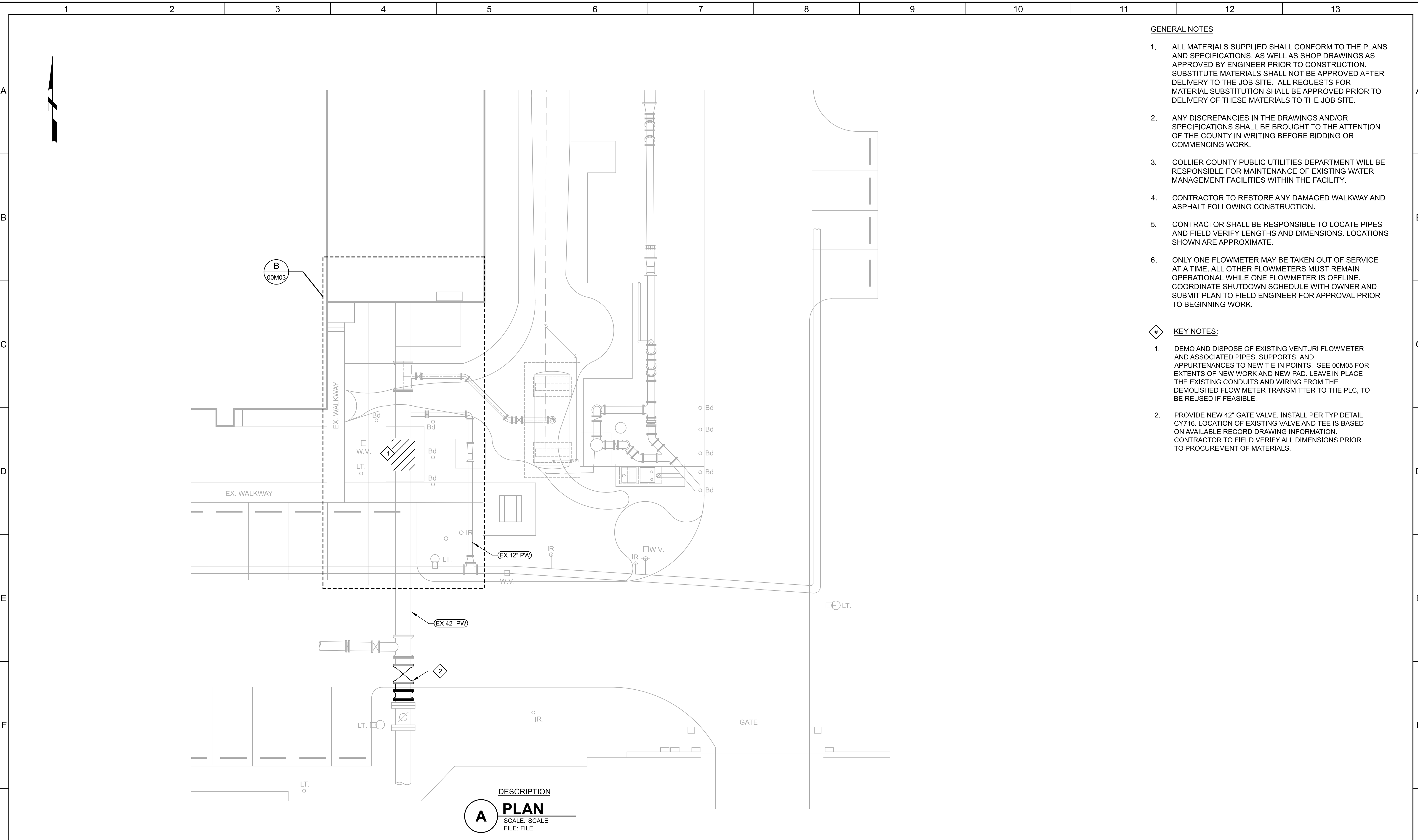
Plot Date: 14-MAR-2024 9:02:15 AM

User: svcPW

PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen

LAST SAVED BY: tivo



- GENERAL NOTES**
- ALL MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND SPECIFICATIONS, AS WELL AS SHOP DRAWINGS AS APPROVED BY ENGINEER PRIOR TO CONSTRUCTION. SUBSTITUTE MATERIALS SHALL NOT BE APPROVED AFTER DELIVERY TO THE JOB SITE. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE APPROVED PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.
  - ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY IN WRITING BEFORE BIDDING OR COMMENCING WORK.
  - COLLIER COUNTY PUBLIC UTILITIES DEPARTMENT WILL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING WATER MANAGEMENT FACILITIES WITHIN THE FACILITY.
  - CONTRACTOR TO RESTORE ANY DAMAGED WALKWAY AND ASPHALT FOLLOWING CONSTRUCTION.
  - CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE PIPES AND FIELD VERIFY LENGTHS AND DIMENSIONS. LOCATIONS SHOWN ARE APPROXIMATE.
  - ONLY ONE FLOWMETER MAY BE TAKEN OUT OF SERVICE AT A TIME. ALL OTHER FLOWMETERS MUST REMAIN OPERATIONAL WHILE ONE FLOWMETER IS OFFLINE. COORDINATE SHUTDOWN SCHEDULE WITH OWNER AND SUBMIT PLAN TO FIELD ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
- KEY NOTES:**
- DEMO AND DISPOSE OF EXISTING VENTURI FLOWMETER AND ASSOCIATED PIPES, SUPPORTS, AND APPURTENANCES TO NEW TIE IN POINTS. SEE 00M05 FOR EXTENTS OF NEW WORK AND NEW PAD. LEAVE IN PLACE THE EXISTING CONDUITS AND WIRING FROM THE DEMOLISHED FLOW METER TRANSMITTER TO THE PLC, TO BE REUSED IF FEASIBLE.
  - PROVIDE NEW 42" GATE VALVE. INSTALL PER TYP DETAIL CY716. LOCATION OF EXISTING VALVE AND TEE IS BASED ON AVAILABLE RECORD DRAWING INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO PROCUREMENT OF MATERIALS.

DESCRIPTION  
**A PLAN**  
 SCALE: SCALE  
 FILE: FILE

<table border="1"> <tr><th>REV</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>			REV	DATE	BY	DESCRIPTION													BID SET DESIGNED NW DRAWN HV CHECKED GDM DATE MARCH 2024		THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.			COLLIER COUNTY SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT CIVIL NCRWTP SITE AND YARD PIPNG PLAN	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. 00C01 SHEET NO. 4 OF 25
REV	DATE	BY	DESCRIPTION																							

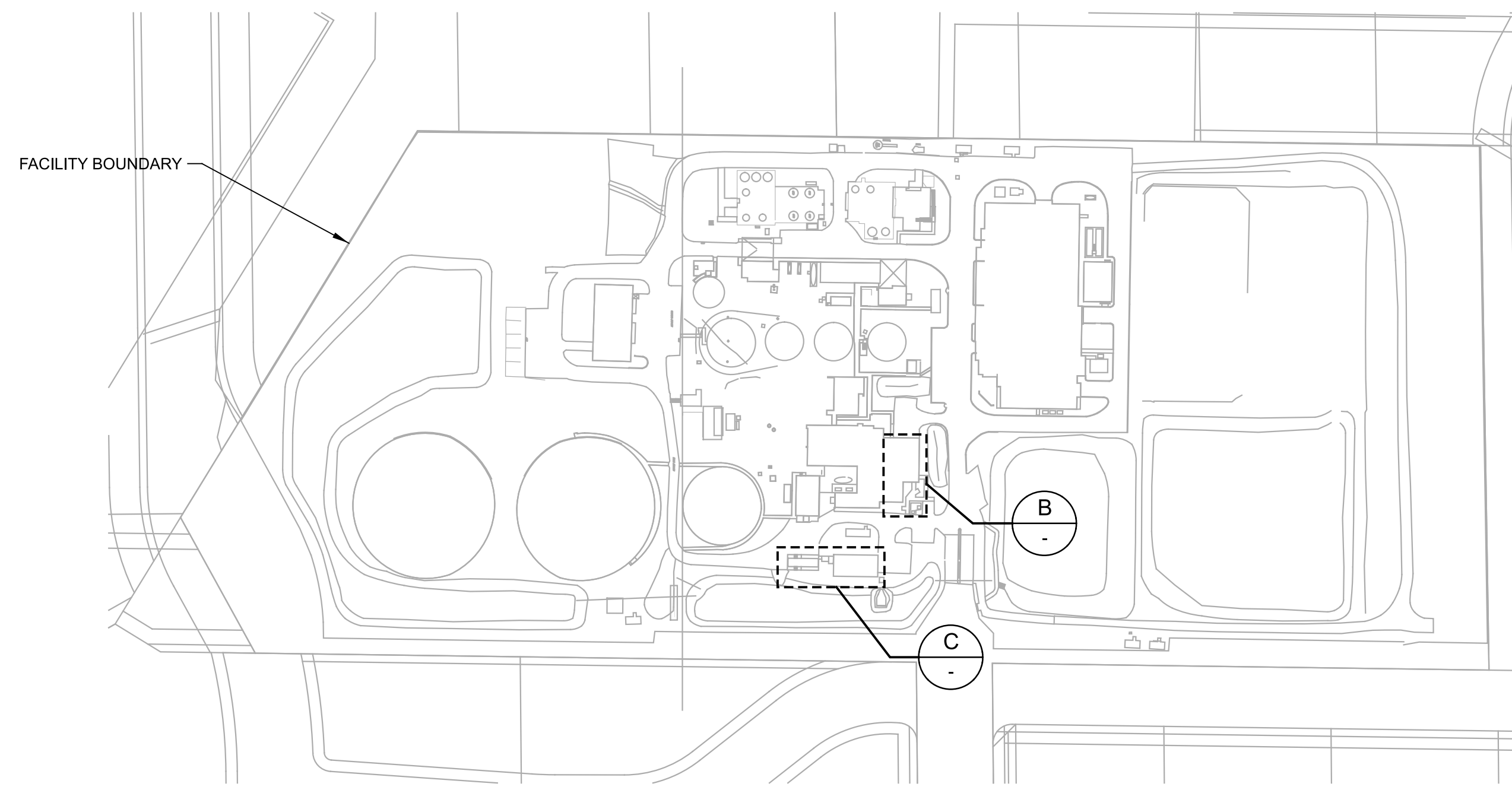


Plot Date: 12-MAR-2024 2:27:21 PM

User: svcPW

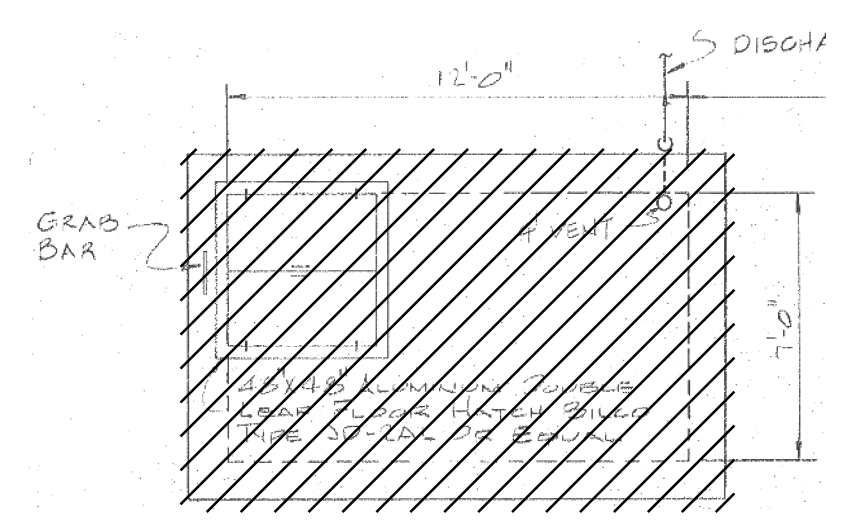
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

LAST SAVED BY: iyo

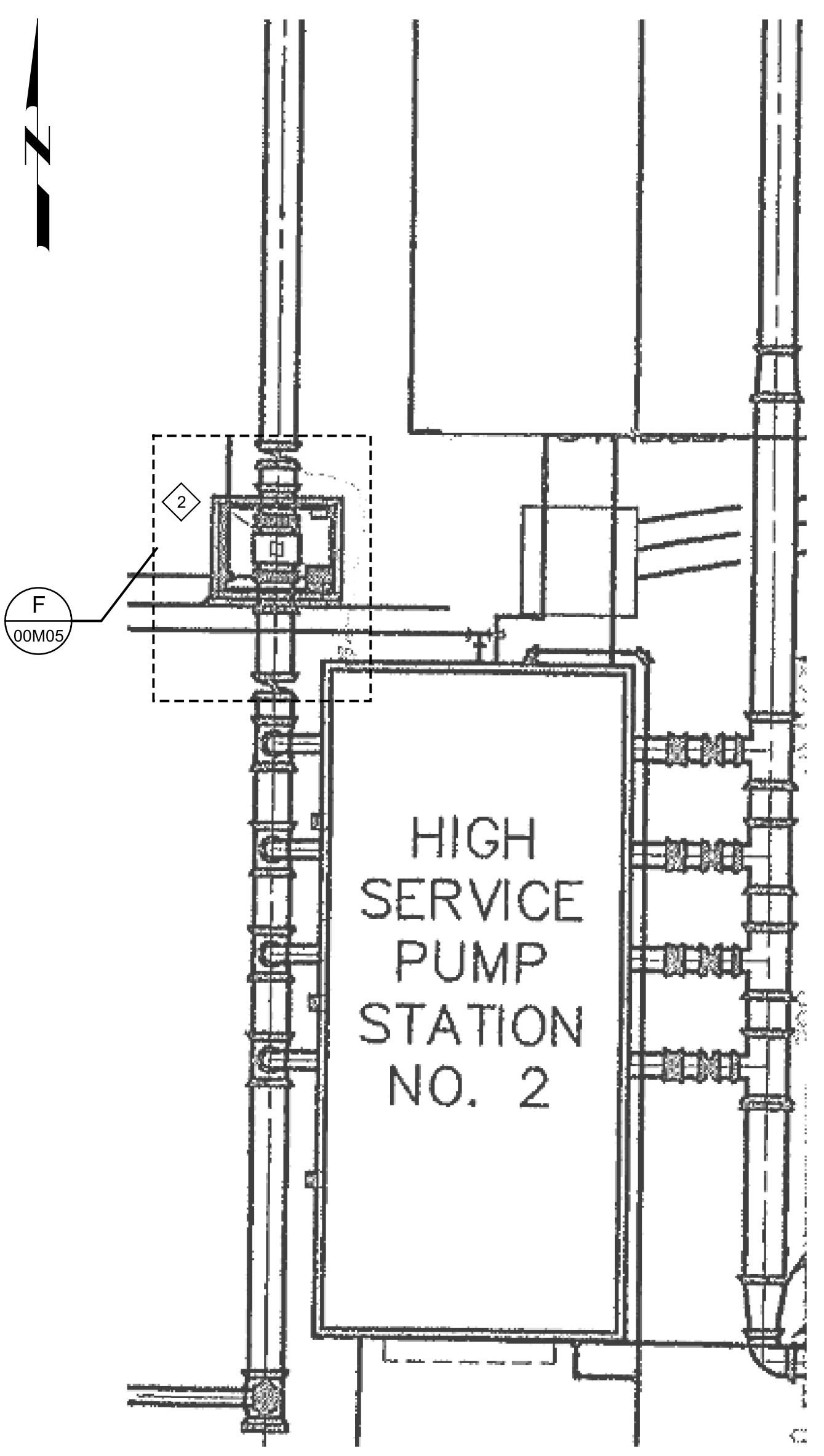


PARCEL ID: 298280001  
ZONING DESIGNATION: A; RES81-227

**A PLAN**  
SCALE: 1" = 150'-0"  
FILE: 20192200C0101.dwg



**D ENLARGED PLAN**  
SCALE: 1" = 5'-0"  
FILE: -



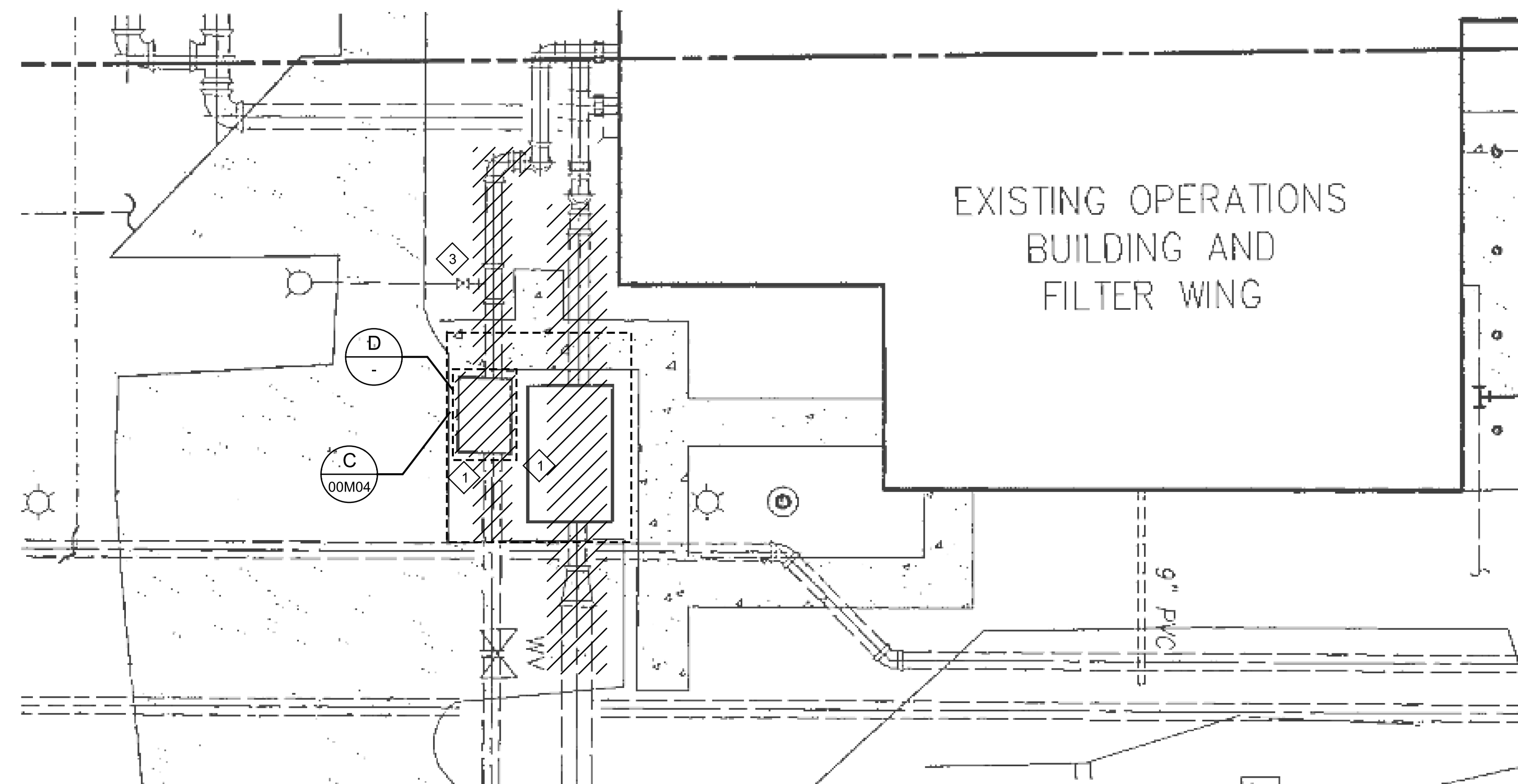
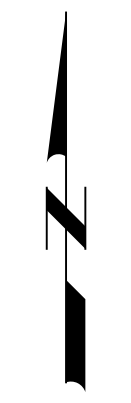
**C ENLARGED PLAN**  
SCALE: 1" = 10'-0"  
FILE: CIVIL MAG METER

**GENERAL NOTES**

- ALL MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND SPECIFICATIONS, AS WELL AS SHOP DRAWINGS AS APPROVED BY ENGINEER PRIOR TO CONSTRUCTION. SUBSTITUTE MATERIALS SHALL NOT BE APPROVED AFTER DELIVERY TO THE JOB SITE. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE APPROVED PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.
- ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY IN WRITING BEFORE BIDDING OR COMMENCING WORK.
- COLLIER COUNTY PUBLIC UTILITIES DEPARTMENT WILL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING WATER MANAGEMENT FACILITIES WITHIN THE FACILITY.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE PIPES AND FIELD VERIFY LENGTHS AND DIMENSIONS. LOCATIONS SHOWN ARE APPROXIMATE.
- ONLY ONE FLOWMETER MAY BE TAKEN OUT OF SERVICE AT A TIME. ALL OTHER FLOWMETERS MUST REMAIN OPERATIONAL WHILE ONE FLOWMETER IS OFFLINE. COORDINATE SHUTDOWN SCHEDULE WITH OWNER AND SUBMIT PLAN TO FIELD ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
- CONTRACTOR TO RESTORE ANY DAMAGED WALKWAY AND ASPHALT FOLLOWING CONSTRUCTION.

**KEY NOTES:**

- DEMO AND DISPOSE OF EXISTING VENTURI FLOWMETER AND ASSOCIATED PIPES AND APPURTENANCES TO NEW TIE IN POINTS. REMOVE VAULT TOP AND SIDE WALL TO 12" BELOW GRADE. PROVIDE MIN 3 DIA OPENING AT VAULT BOTTOM TO PROVIDE DRAIN. FILL VAULT WITH #57 STONE. PROVIDE NEW CONCRETE PAD PER S300. SEE 01M01 FOR EXTENTS NEW WORK AND NEW PAD. LEAVE IN PLACE THE EXISTING CONDUITS AND WIRING FROM THE DEMOLISHED FLOW METER TRANSMITTER TO THE PLC-3.1, TO BE REUSED IF FEASIBLE.
- DISCONNECT THE EXISTING MAGNETIC FLOW METER FE-624 AND TRANSMITTER FIT-624. PRESERVE CONDUITS AND WIRING FROM THE TRANSMITTER TO THE EXISTING PLC-4 AND LIGHTING PANEL PNL-L7 TO BE REUSED IF FEASIBLE.
- PROTECT VALVE ON 6" PIPE TO FIRE HYDRANT. PROVIDE NEW 6" PIPE AND CONNECTION TO RELOCATED 20" HEADER AS SHOWN ON DRAWING 00M03.



**B ENLARGED PLAN**  
SCALE: 1" = 10'-0"±  
FILE: SCRWTWP VENTURIS

REV		DATE	BY	DESCRIPTION	DESIGNED NW	DRAWN HV	CHECKED GDM	DATE MARCH 2024		THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.			COLLIER COUNTY SCRWTWP LIME SLAKER AND FLOW METER REPLACEMENT CIVIL SCRWTWP SITE AND YARD PIPING PLAN	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. 00C02 SHEET NO. 5 OF 25
-----	--	------	----	-------------	----------------	-------------	----------------	--------------------	--	--	--	--	--	--	---

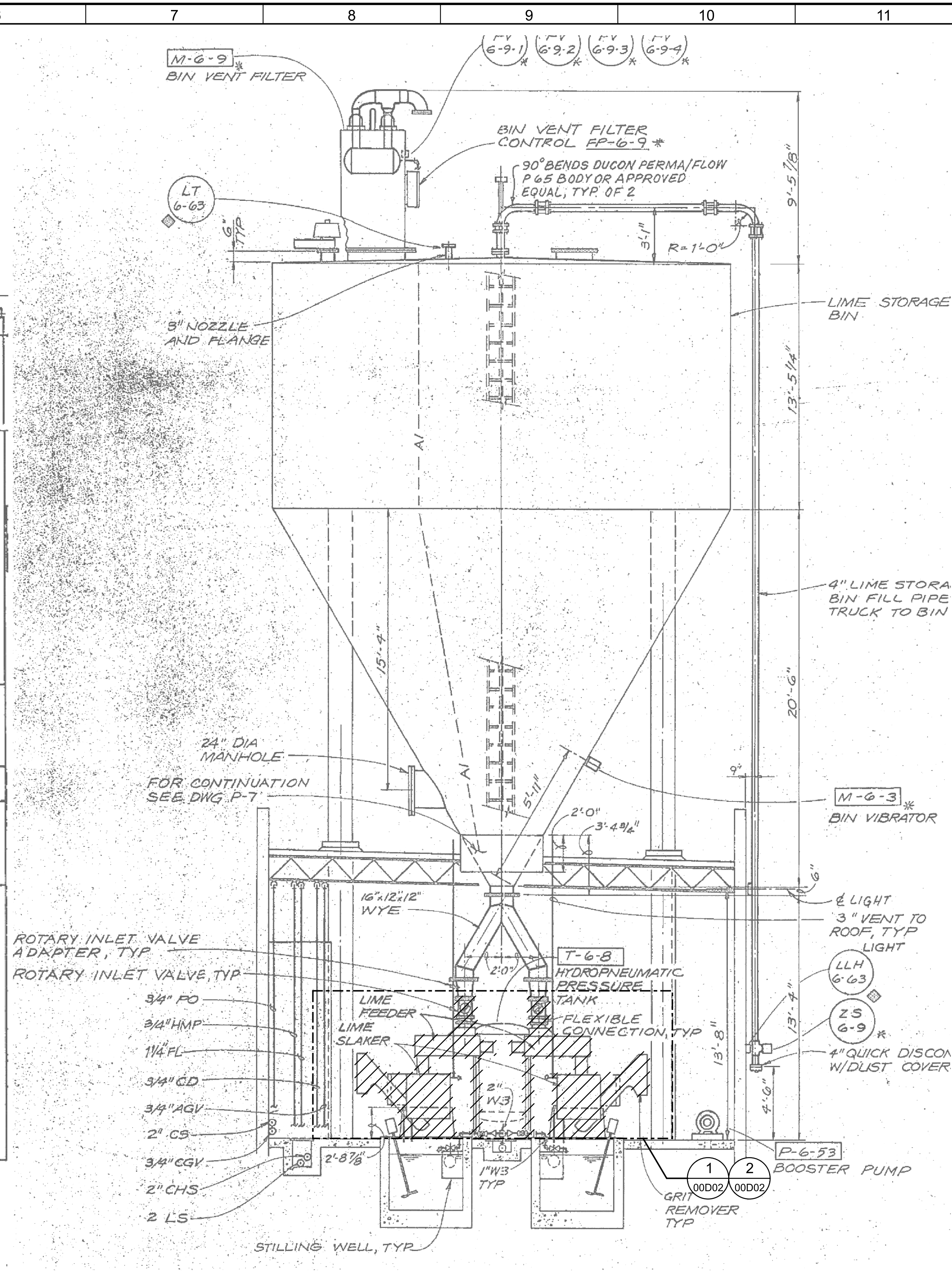
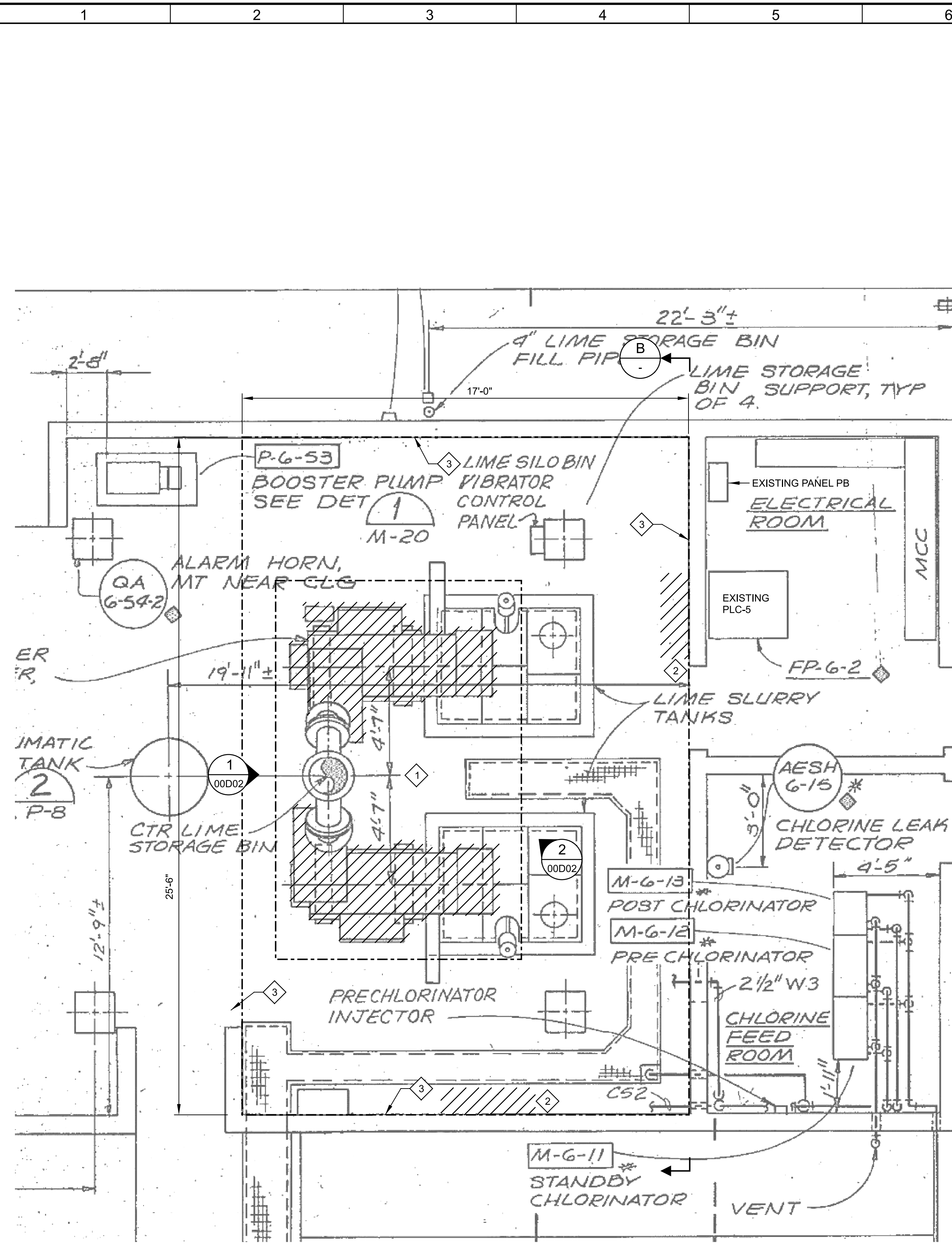


Plot Date: 12-MAR-2024 2:26:43 PM

User: swcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

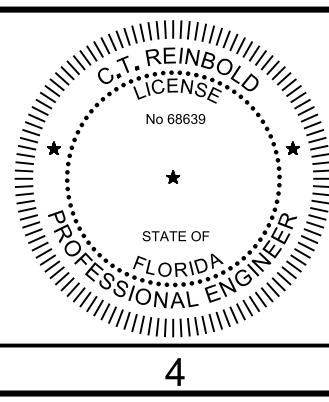
LAST SAVED BY: tivo



- GENERAL NOTES:**
- ALL ELEVATIONS SHOWN ARE APPROXIMATE AND ARE CALCULATED BASED ON RECORD DRAWING INFORMATION INDICATED IN THE 1984 AND 1986 LIME SOFTENING CONSTRUCTION DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED ON-SITE BY CONTRACTOR.
  - DEMOLITION OF THE EXISTING LIME SLAKER EQUIPMENT WILL BEGIN AT THE EXISTING ROTARY INLET VALVE IMMEDIATELY FOLLOWING THE ROTARY INLET VALVE ADAPTER (REDUCER), AND INCLUDES REMOVAL OF ALL EXISTING EQUIPMENT AND PROCESS PIPING ASSOCIATED WITH THE EXISTING EQUIPMENT.
  - CONTRACTOR TO COORDINATE WITH COUNTY PRIOR TO DISPOSAL OF EQUIPMENT AND MATERIALS FOR APPROVAL.
  - EXISTING RECORD DRAWING INFORMATION OBTAINED FROM 1984 AND 1986 LIME SOFTENING CONSTRUCTION DRAWINGS. THE INFORMATION SHOWN ON THIS SHEET IS FOR DIMENSIONAL PURPOSE ONLY.
- KEY NOTES:**
- PRIOR TO DEMOLITION, DISCONNECT SLAKING CONTROL PANELS FROM THE POWER SOURCE (PANEL PB). DISCONNECT ALL CONTROL WIRING FROM SLAKING CONTROL PANEL TO THE EXISTING PLC-5. DISCONNECT ALL ELECTRIC EQUIPMENT AND PULL WIRES TO THE SLAKING SYSTEM CONTROL PANELS.
  - DEMOLISH AND DISPOSE THE EXISTING LIME SLAKING CONTROL PANEL. PULL WIRES FROM EXISTING PANEL PB AND PLC-5, AND EXISTING CONDUITS.
  - DEMOLISH AND DISPOSE OF EXISTING TILE FLOOR, AND SURFACE PREP EXISTING CONCRETE FOUNDATION FOR INSTALLATION OF NEW FLOORING WITHIN THE DEFINED BOUNDS.

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED BH
DRAWN HV
CHECKED LR
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
 301 NORTH CATTLEMEN ROAD, SUITE 302  
 SARASOTA, FL. 343232  
 PHONE: (941) 371-9832 FAX: (941) 371-9873  
 CA 00008571



COLLIER COUNTY  
 SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT  
 DEMOLITION  
**LIME SLAKER EQUIPMENT  
 DEMOLITION PLAN AND SECTION**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1'	JOB NO. 202327
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 00D01
	SHEET NO. 6 OF 25



Plot Date: 12-MAR-2024 2:26:44 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

LAST SAVED BY: lvo

1 2 3 4 5 6 7 8 9 10 11 12 13

A

B

C

D

E

F

G

**GENERAL NOTES:**

1. ALL ELEVATIONS SHOWN ARE APPROXIMATE AND ARE CALCULATED BASED ON RECORD DRAWING INFORMATION INDICATED IN THE 1984 AND 1986 LIME SOFTENING CONSTRUCTION DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED ON-SITE BY CONTRACTOR.
2. DEMOLITION OF THE EXISTING LIME SLAKER EQUIPMENT WILL BEGIN AT THE EXISTING ROTARY INLET VALVE IMMEDIATELY FOLLOWING THE ROTARY INLET VALVE ADAPTER (REDUCER), AND INCLUDES REMOVAL OF ALL EXISTING EQUIPMENT AND PROCESS PIPING ASSOCIATED WITH THE EXISTING EQUIPMENT.
3. CONTRACTOR TO COORDINATE WITH COUNTY PRIOR TO DISPOSAL OF EQUIPMENT AND MATERIALS FOR APPROVAL.

**KEY NOTES:**

1. DEMOLISH AND DISPOSE OF EXISTING MERRICK PASTE LIME SLAKER (TYP OF 2).
2. DEMOLISH AND DISPOSE OF EXISTING FEEDER SUPPORT STAND AND SUPPORT ASSEMBLY FOR THE VOLUMETRIC FEEDER.
3. DEMOLISH AND DISPOSE OF EXISTING VOLUMETRIC FEEDER ASSEMBLY (TYP OF 2).
4. DEMOLISH AND DISPOSE OF EXISTING ROTARY INLET VALVE (TYP OF 2).
5. DEMOLISH AND DISPOSE OF EXISTING LIME SILO SHAKER MOTORS (TYP OF 2).
6. DEMOLISH AND DISPOSE OF EXISTING LIME SLAKING CONTROL PANEL (TYP OF 2), PULL WIRES FROM EXISTING PANEL PB AND PLC-5, AND EXISTING CONDUITS.
7. DEMOLISH AND DISPOSE OF EXISTING TILE FLOOR, AND SURFACE PREP EXISTING CONCRETE FOUNDATION FOR INSTALLATION OF NEW FLOORING WITHIN THE DEFINED BOUNDS.



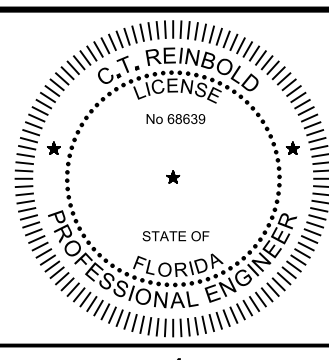
**1 PHOTO**  
 SCALE: NO SCALE  
 FILE: FILE



**2 PHOTO**  
 SCALE: NO SCALE  
 FILE: FILE

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED BH
DRAWN HV
CHECKED LR
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
 301 NORTH CATTLEMEN ROAD, SUITE 302  
 SARASOTA, FL. 343232  
 PHONE: (941) 371-9832 FAX: (941) 371-9873  
 CA 00008571



COLLIER COUNTY  
 SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT  
 DEMOLITION  
**LIME SLAKER EQUIPMENT  
 DEMOLITION PHOTOS**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
202327  
 DRAWING NO.  
**00D02**  
 SHEET NO.  
7 OF 25

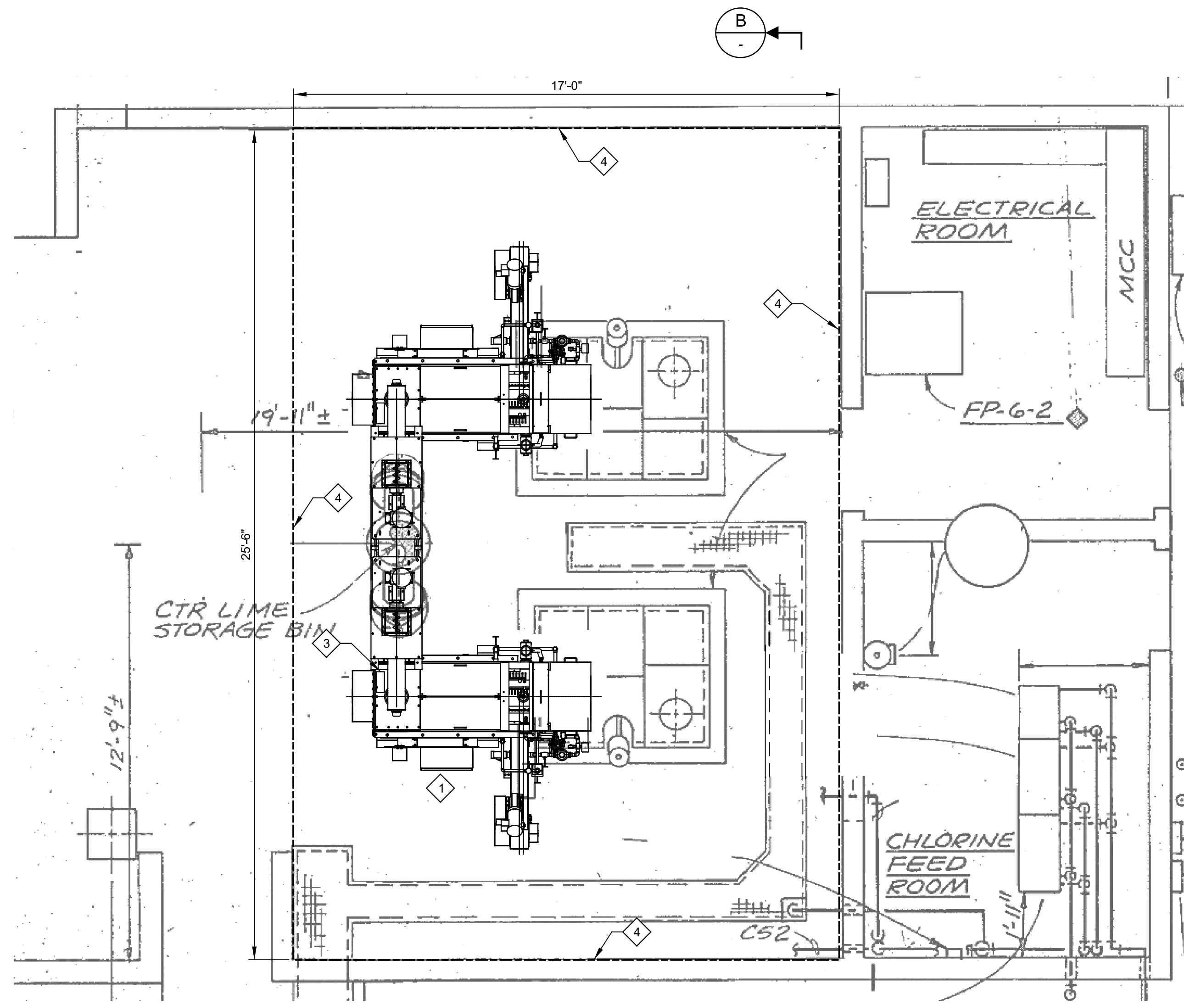


Plot Date: 12-MAR-2024 2:28:13 PM

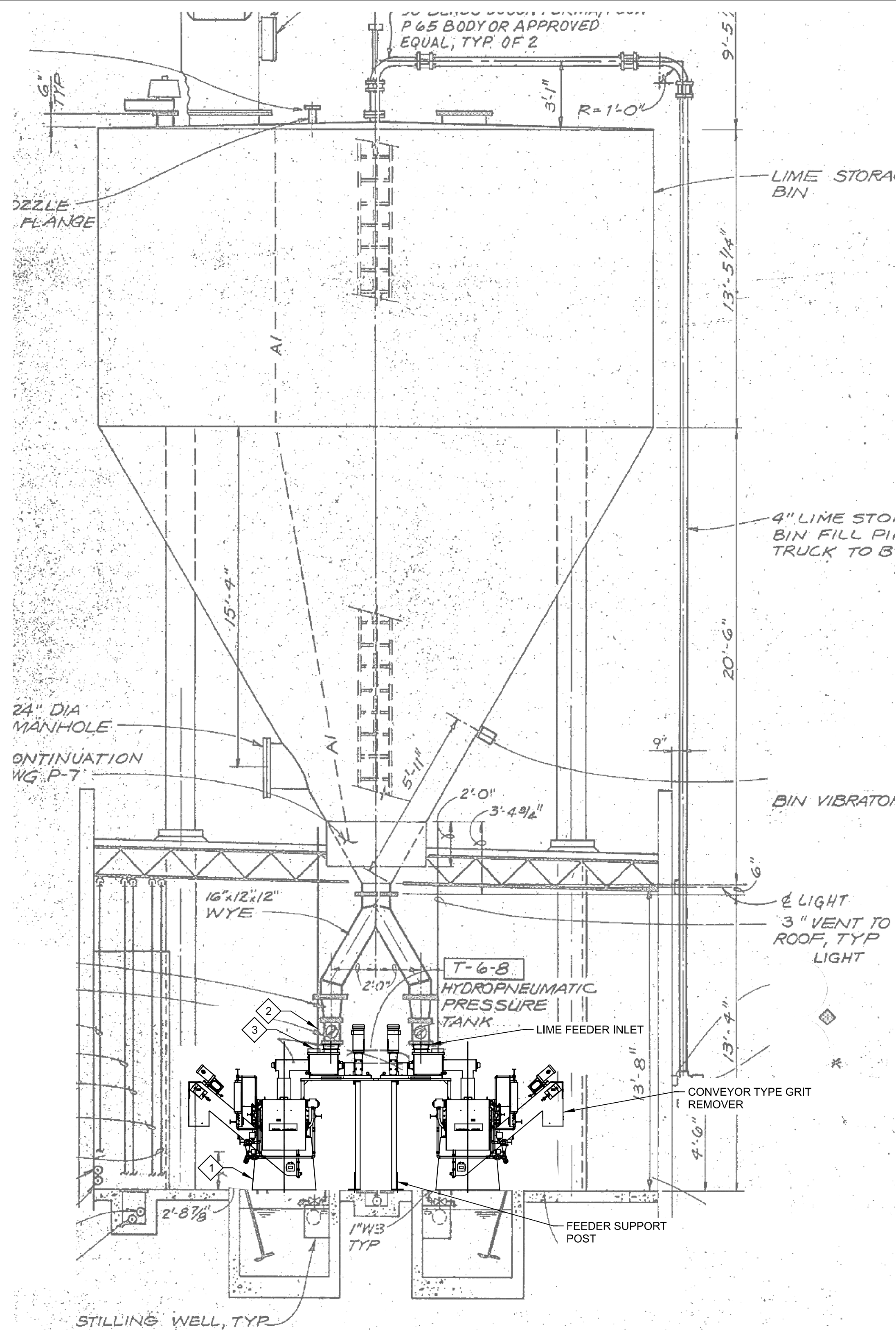
User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

LAST SAVED BY: tivo



DESCRIPTION  
**A PLAN**  
 SCALE: 3/8" = 1'-0"±  
 FILE: FILE



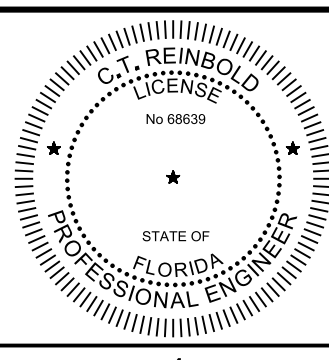
DESCRIPTION  
**B SECTION**  
 SCALE: 1/4" = 1'-0"±  
 FILE: FILE

- GENERAL NOTES:**
- ALL ELEVATIONS SHOWN ARE APPROXIMATE AND ARE CALCULATED BASED ON RECORD DRAWING INFORMATION INDICATED IN THE 1984 AND 1986 LIME SOFTENING CONSTRUCTION DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED ON-SITE BY CONTRACTOR.
  - GENERAL ARRANGEMENT DRAWING SHOWN ARE REPRESENTATIVE OF IMS SLAKER EQUIPMENT. THE GENERAL ARRANGEMENT DRAWINGS ARE FOR EQUIPMENT PLACEMENT AND FITMENT PURPOSES ONLY AND ARE NOT REPRESENTATIVE OF THE FINAL SELECTED MANUFACTURER.
  - ALL DIMENSIONS ARE APPROXIMATE AND MANY VARY BASED ON THE ACTUAL EQUIPMENT SUPPLIED.
  - ONLY MAJOR EQUIPMENT AND SOME SCHEMATIC PIPING IS SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY AND COORDINATE WORK WILL ALL FEATURES SPECIFIED TO PROVIDE A COMPLETE WORK PRODUCT.
  - SEE LIME SYSTEM PROCESS FLOW DIAGRAM FOR WATER SUPPLY VALVES AND INSTRUMENTS.

- KEY NOTES:**
- PROVIDE TWO(2) NEW 2,000 LBS./HR PASTE LIME SLAKER SYSTEMS (TYP OF 2).
  - PROVIDE NEW ROTARY INLET VALVE FOR CONNECTION FROM EXISTING ROTARY INLET ADAPTER TO THE NEW SLAKER LIME FEEDER INLET. A FLEXIBLE COUPLING MAY BE USED FOR CONNECTION BETWEEN THE ROTARY INLET VALVE AND THE LIME FEEDER (TYP OF 2).
  - PROVIDE NEW LIME SILO SHAKER MOTORS (TYP OF 2).
  - PROVIDE NEW EPOXY RESIN BASED FLOOR COATING (EPX-F-1) WITHIN THE DEFINED BOUNDS, PER SPECIFICATION 09\_96\_01 HIGH PERFORMANCE COATINGS.

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED BH
DRAWN HV
CHECKED LR
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
 301 NORTH CATTLEMEN ROAD, SUITE 302  
 SARASOTA, FL. 343232  
 PHONE: (941) 371-9832 FAX: (941) 371-9873  
 CA 00008571



COLLIER COUNTY  
 SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT  
 MECHANICAL  
**LIME SLAKER EQUIPMENT  
 MODIFICATIONS PLAN AND SECTION**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. <b>00M01</b> SHEET NO. 8 OF 25
--	--



Plot Date: 13-MAR-2024 12:37:04 PM

User: svcPW

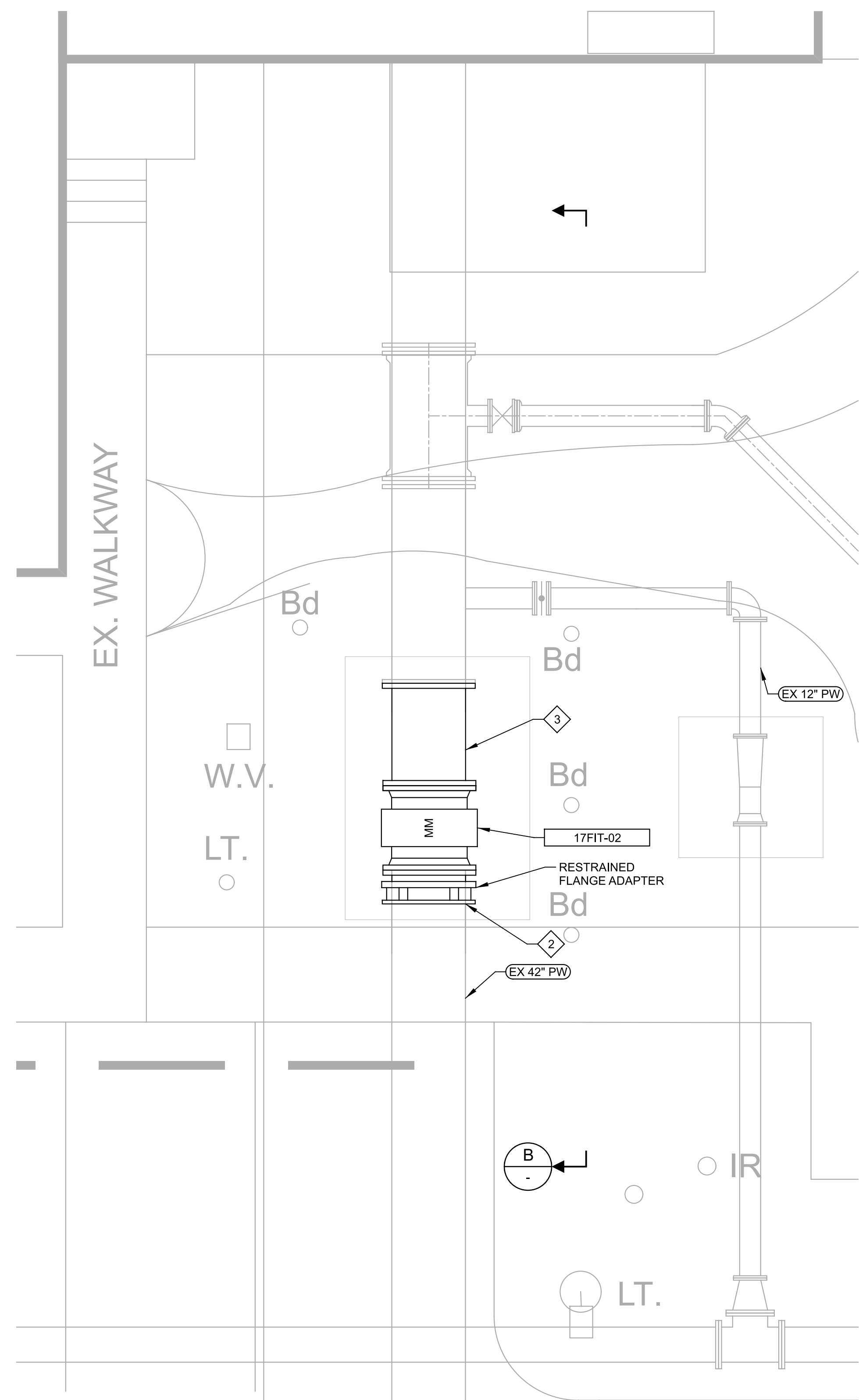
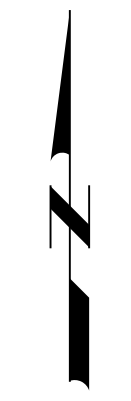
PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen

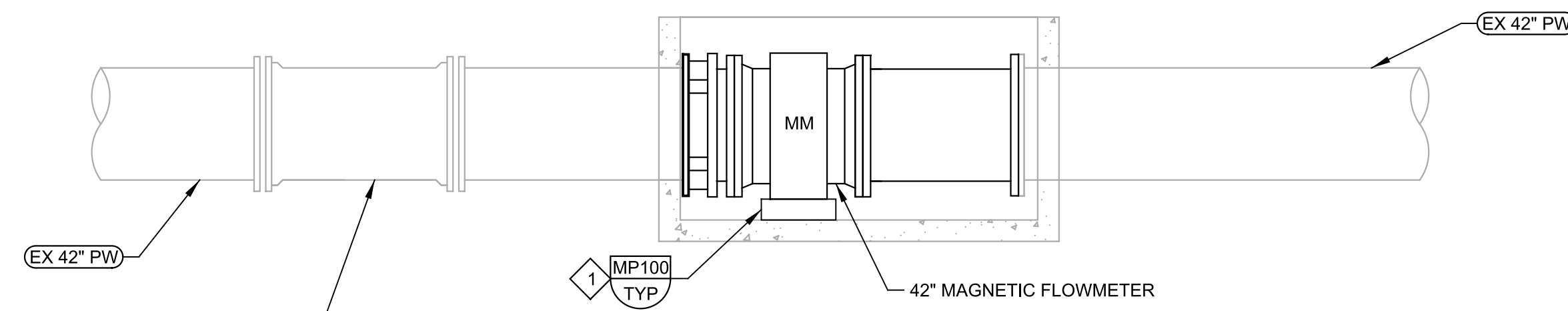
LAST SAVED BY: iyo

1 2 3 4 5 6 7 8 9 10 11 12 13

A B C D E F G



DESCRIPTION  
**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 20232700M0103

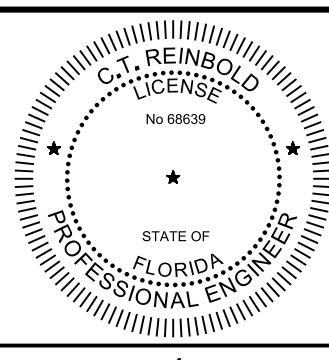


DESCRIPTION  
**B SECTION**  
 SCALE: 1/4" = 1'-0"  
 FILE: 20232700M0103

- GENERAL NOTES:**
- ALL NEW PIPING SHALL BE CEMENT MORTAR LINED DIP TO MATCH EXISTING AND SHALL CONFORM TO THE SPECIFICATIONS.
- KEY NOTES:**
- PROVIDE CONCRETE PIPE SUPPORT WITH MIN 5'-0" SPACING. ALL METAL COMPONENTS SHALL BE 316 SST.
  - CUT PIPE AS REQUIRED FOR FLANGE ADAPTER INSTALLATION.
  - DEMOLISH EXISTING SUPPORT. CUT REBAR FLUSH WITH CONCRETE AND COAT WITH EPX-M-2-PWS PER SECTION 09\_96\_01.

REV	DATE	BY	DESCRIPTION

DESIGNED NW
DRAWN HV
CHECKED GDM
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
 301 NORTH CATTLEMEN ROAD, SUITE 302  
 SARASOTA, FL. 343232  
 PHONE: (941) 371-9832 FAX: (941) 371-9873  
 CA 00008571



COLLIER COUNTY  
 SCRWTWP LIME SLAKER AND FLOW METER REPLACEMENT  
 MECHANICAL  
 NCRWTWP FLOW METER MODIFICATIONS  
 PLAN AND SECTION

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
202327  
 DRAWING NO.  
**00M02**  
 SHEET NO.  
9 OF 25



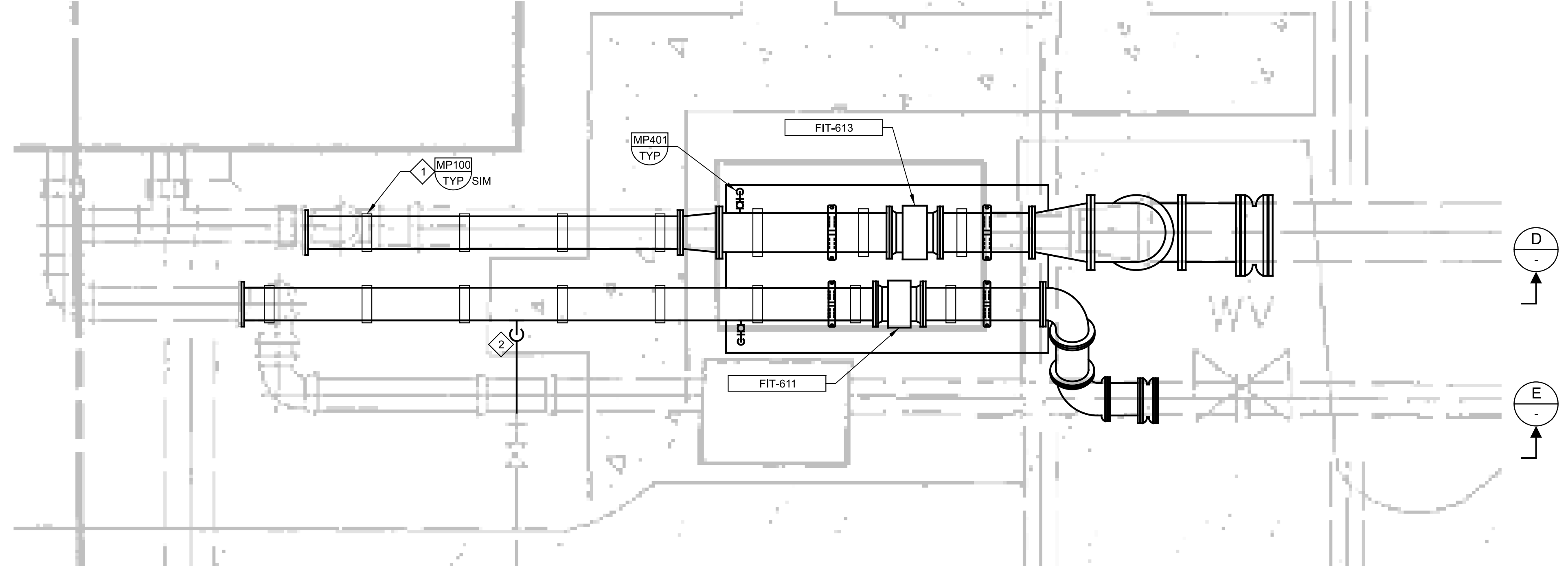
Plot Date: 12-MAR-2024 2:27:34 PM

User: svcPW

Plot Scale: 1:1

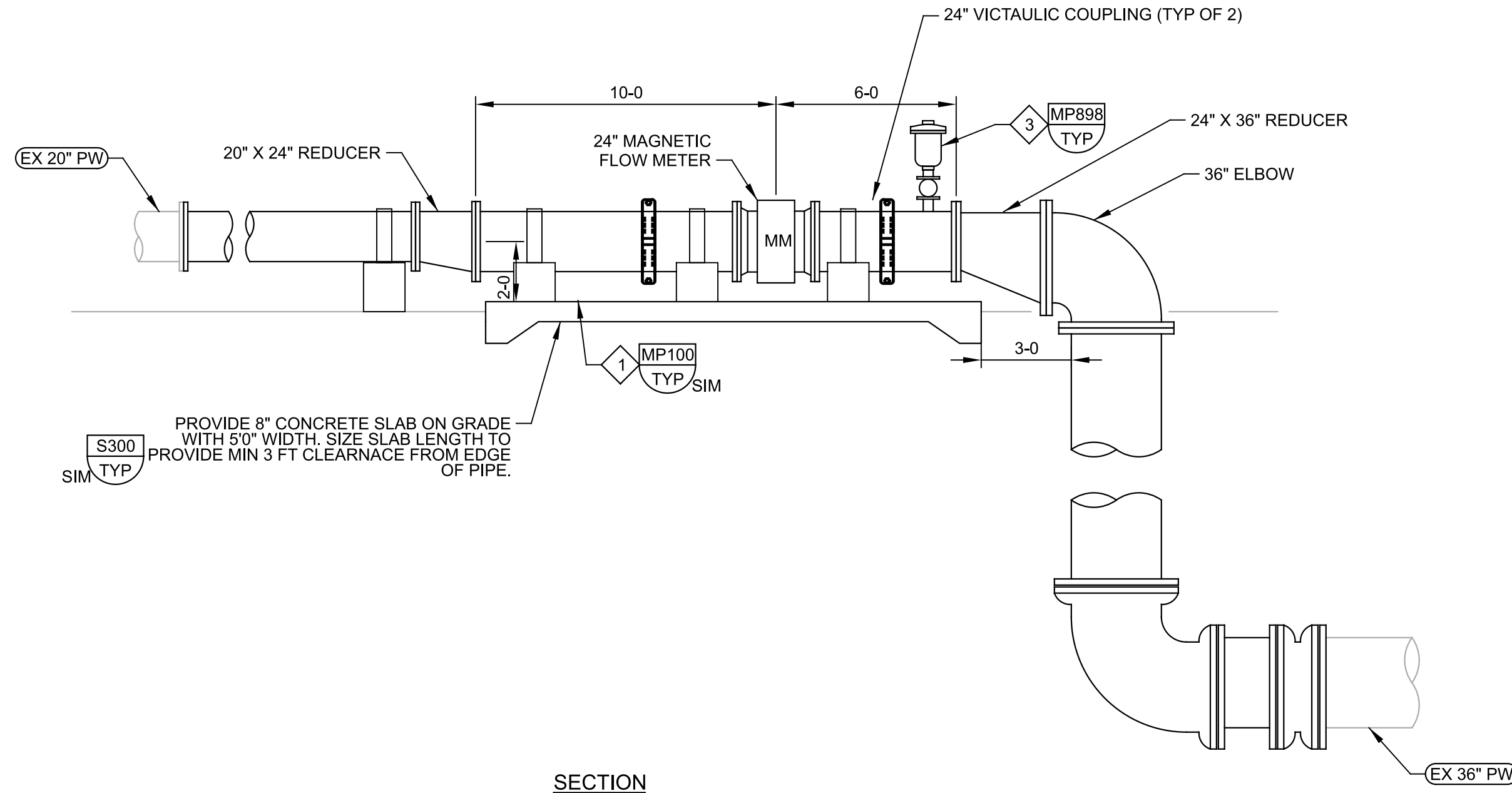
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen

LAST SAVED BY: iyo

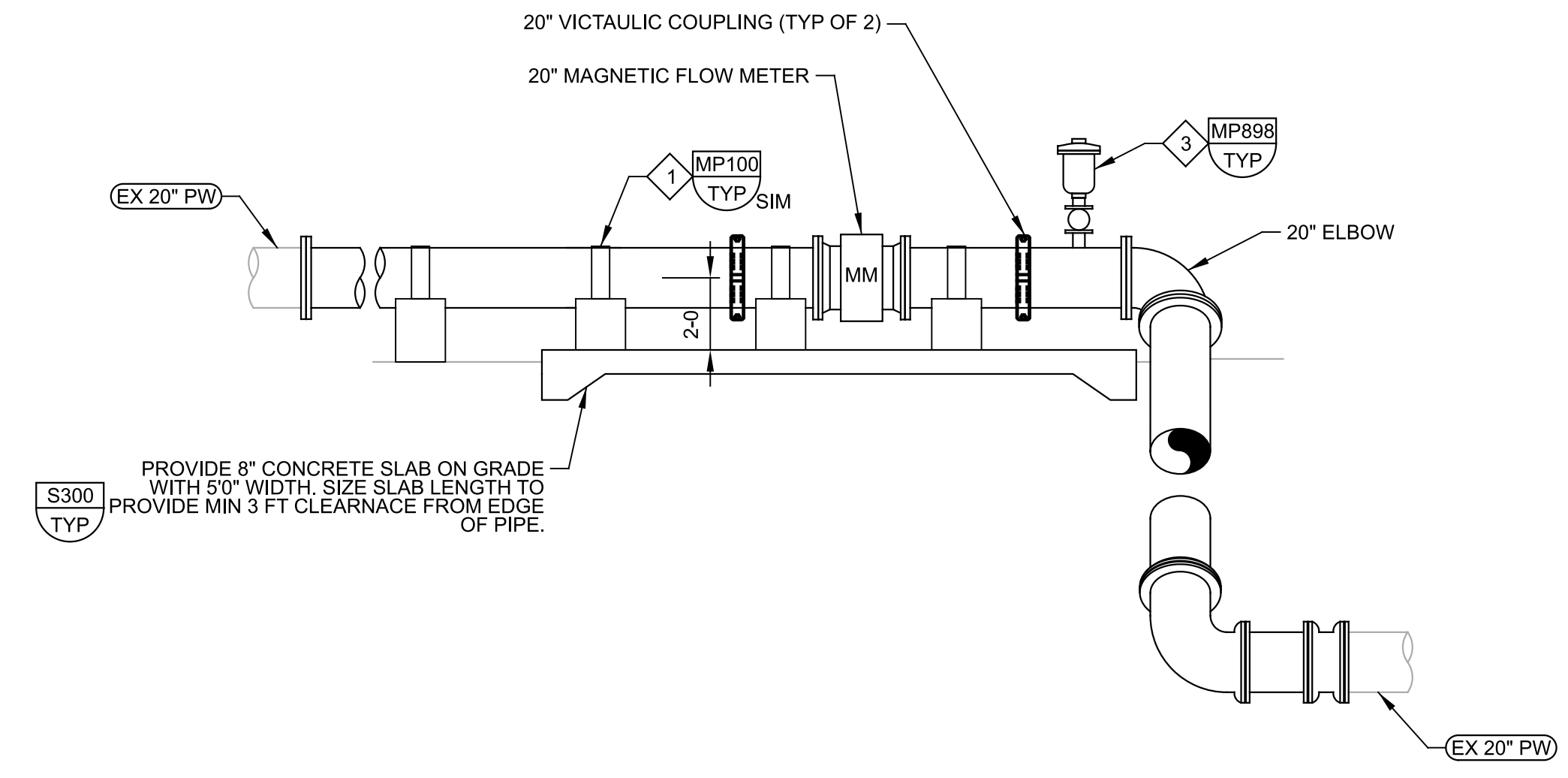


**C PLAN**  
SCALE: 1/4" = 1'-0"  
FILE: 20192200M0101.dwg

- GENERAL NOTES:**
1. ALL NEW PIPNG SHALL BE DIP TO MATCH EXISTING AND SHALL CONFORM TO THE SPECIFICATIONS.
  2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO PROUREMENT OF MATERIALS, INCLUDING PIPE.
- KEY NOTES:**
1. PROVIDE SST PIPE SUPPORT WITH MIN 5'0" SPACING. ALL METAL COMPONENTS SHALL BE 304/316 SST.
  2. PROVIDE 6" TAP ON 20" PIPE. PROVIDE NEW 6" PIPE AND CONNECT FROM TAP TO EXISTING 6" PIPE.
  3. PROVIDE 2" ARV WITH 1/4" ORIFICE OPENING. ROUTE DRAIN PIPING TO THE GROUND OFF OF SLAB.



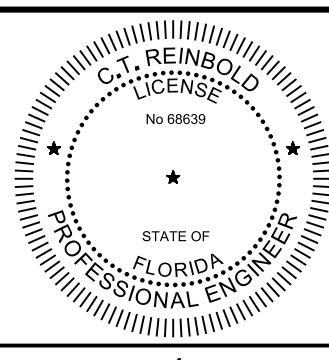
**D SECTION**  
SCALE: 1/4" = 1'-0"  
FILE: 20192200M0101.dwg



**E SECTION**  
SCALE: 1/4" = 1'-0"  
FILE: 20192200M0101.dwg

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED NW
DRAWN HV
CHECKED GDM
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL. 343232  
PHONE: (941) 371-9832 FAX: (941) 371-9873  
CA 00008571



COLLIER COUNTY

SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT

MECHANICAL

SCRWTP FLOW METER MODIFICATIONS  
PLAN AND SECTION 1

VERIFY SCALES	JOB NO. 202327
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00M03
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 10 OF 25

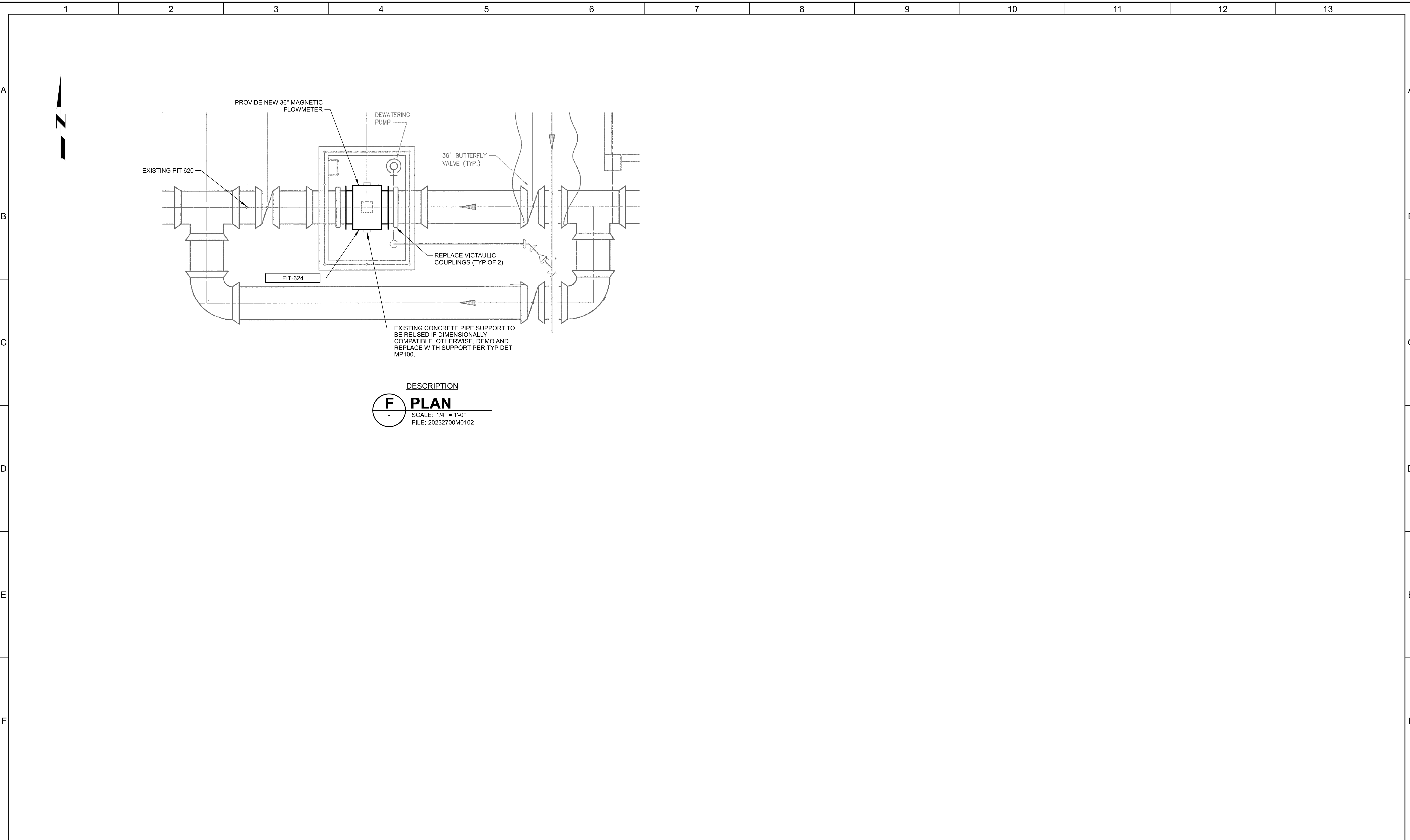


Plot Date: 13-MAR-2024 10:43:05 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

LAST SAVED BY: tivo



DESCRIPTION

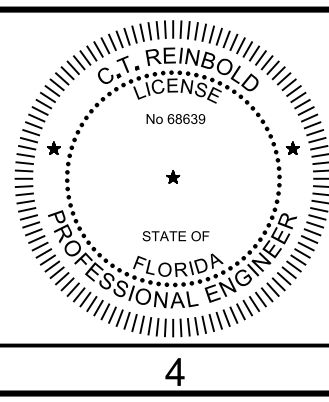
**F PLAN**

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

FILE: 20232700M0102

REV	DATE	BY	DESCRIPTION

DESIGNED NW
DRAWN HV
CHECKED GDM
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL 343232  
PHONE: (941) 371-9832 FAX: (941) 371-9873  
CA 00008571



COLLIER COUNTY

SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT

MECHANICAL

SCRWTP FLOW METER MODIFICATIONS  
PLAN AND SECTION 2

VERIFY SCALES	JOB NO. 202327
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00M04
0 1"	SHEET NO. 11 OF 25
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

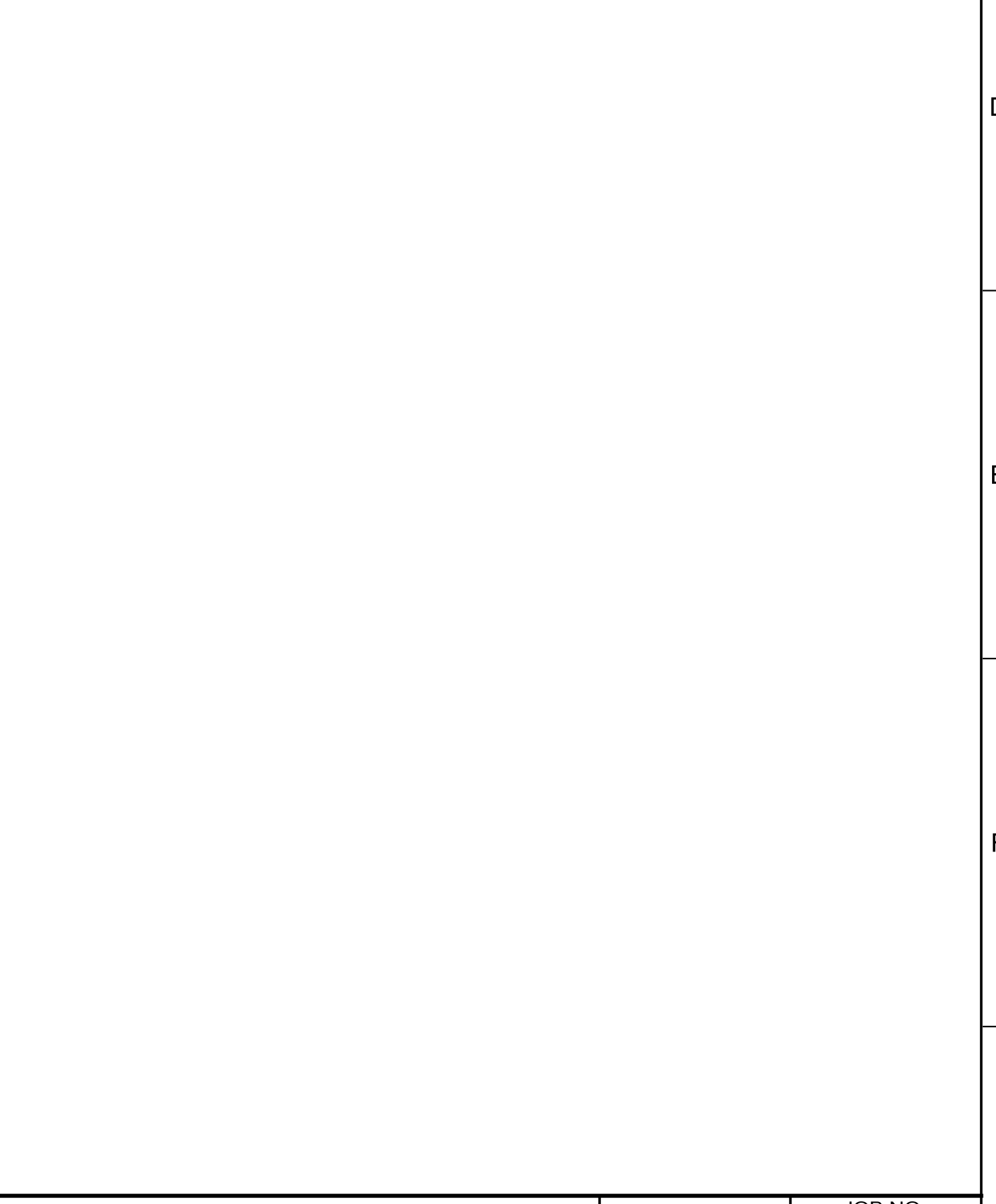
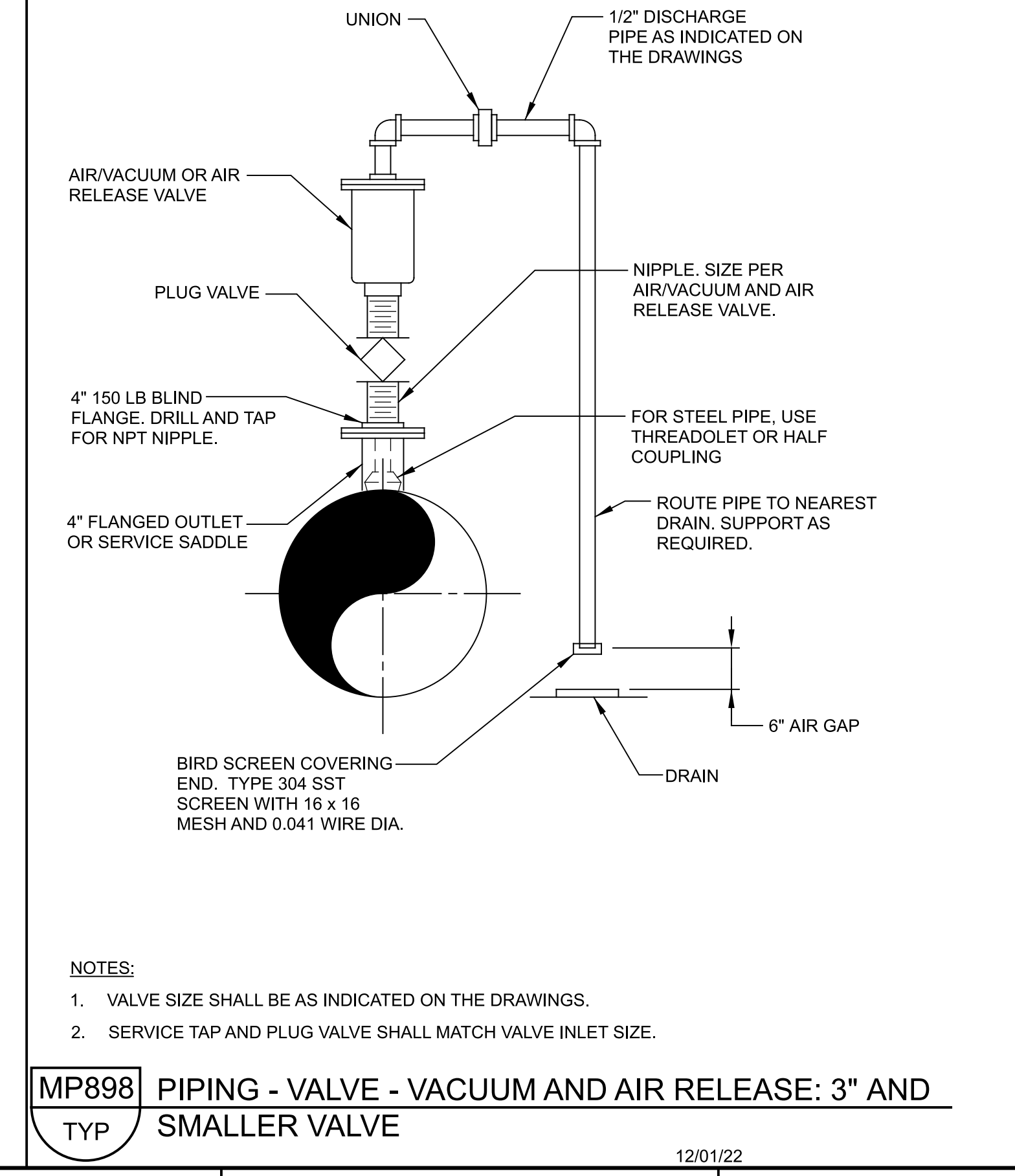
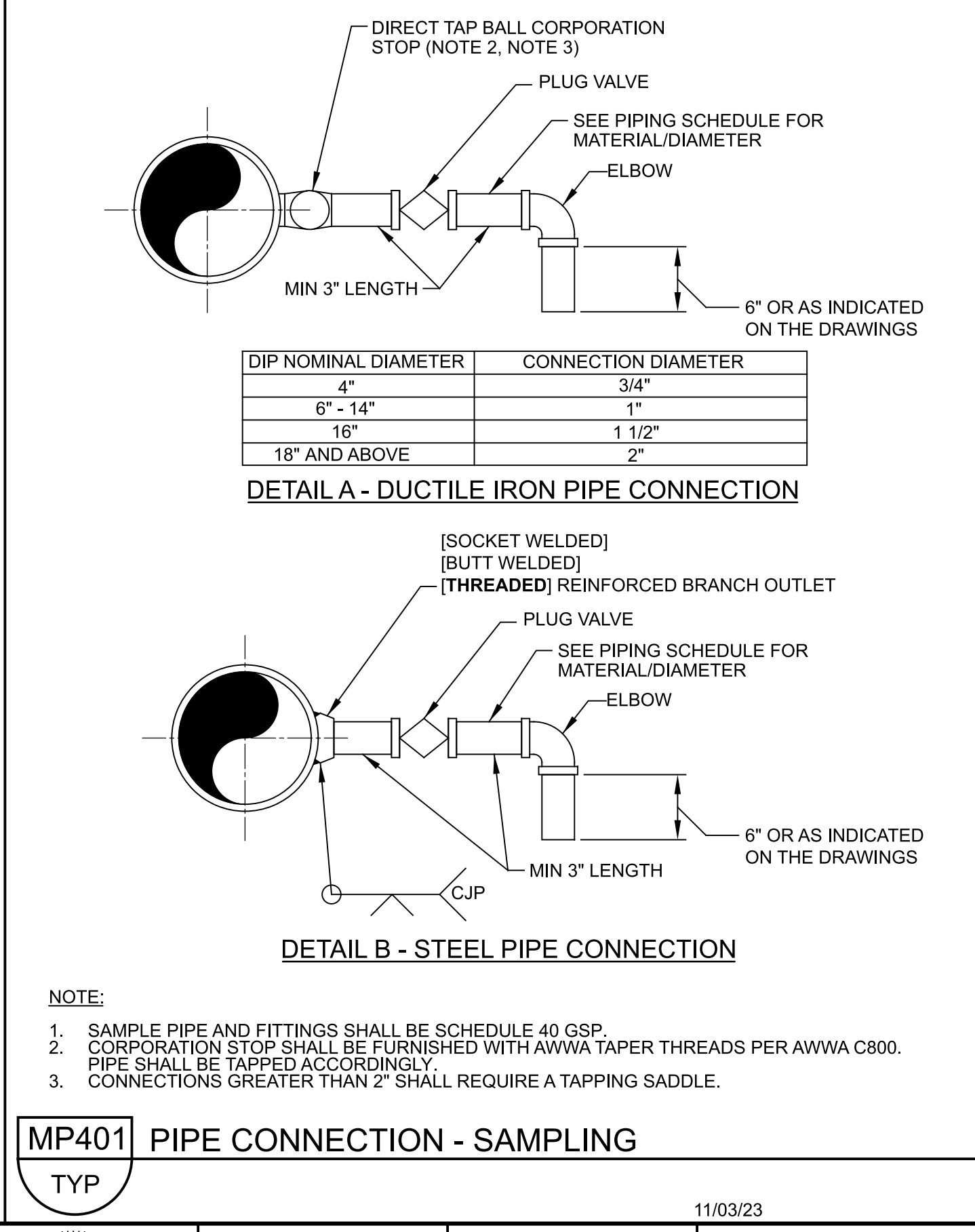
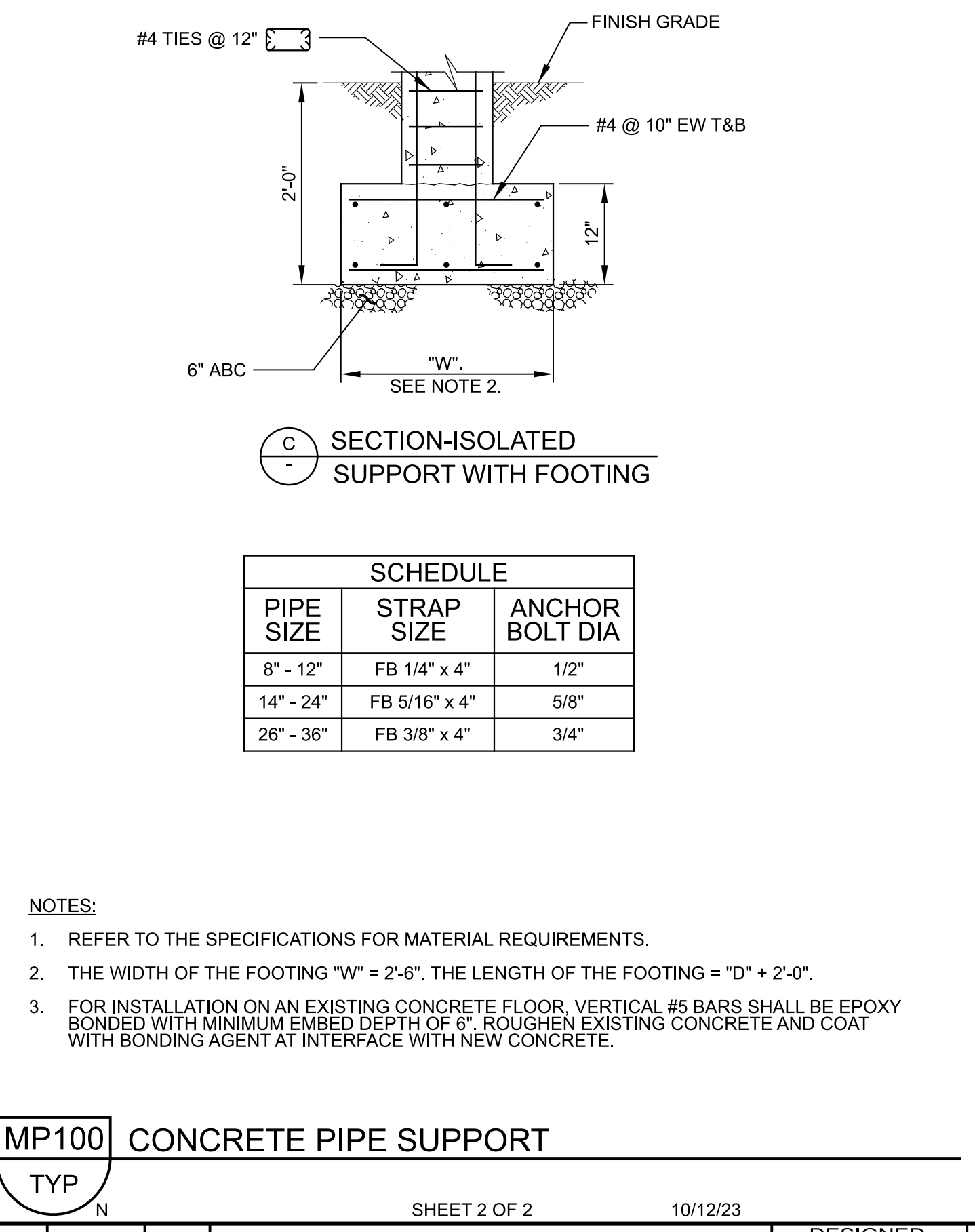
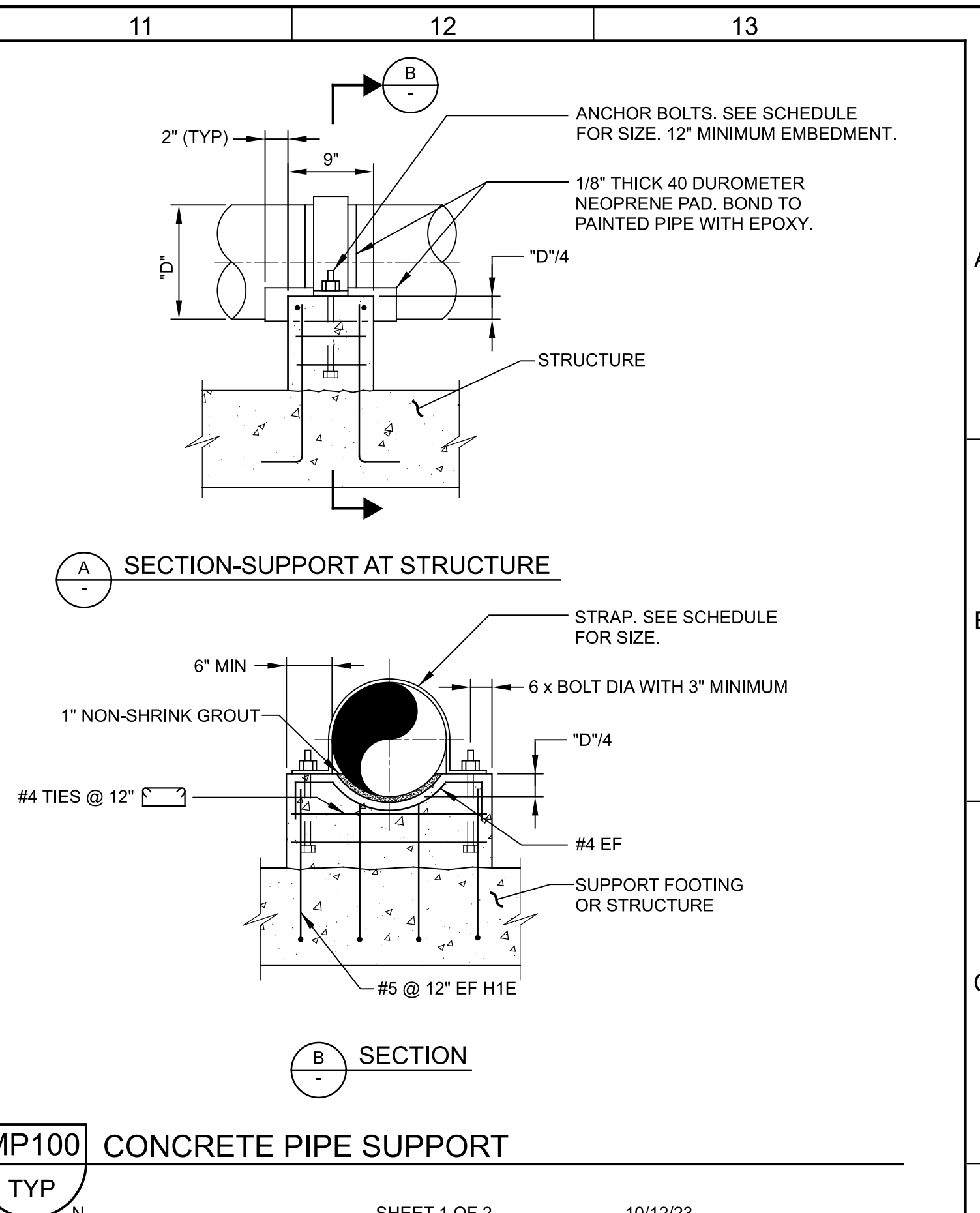
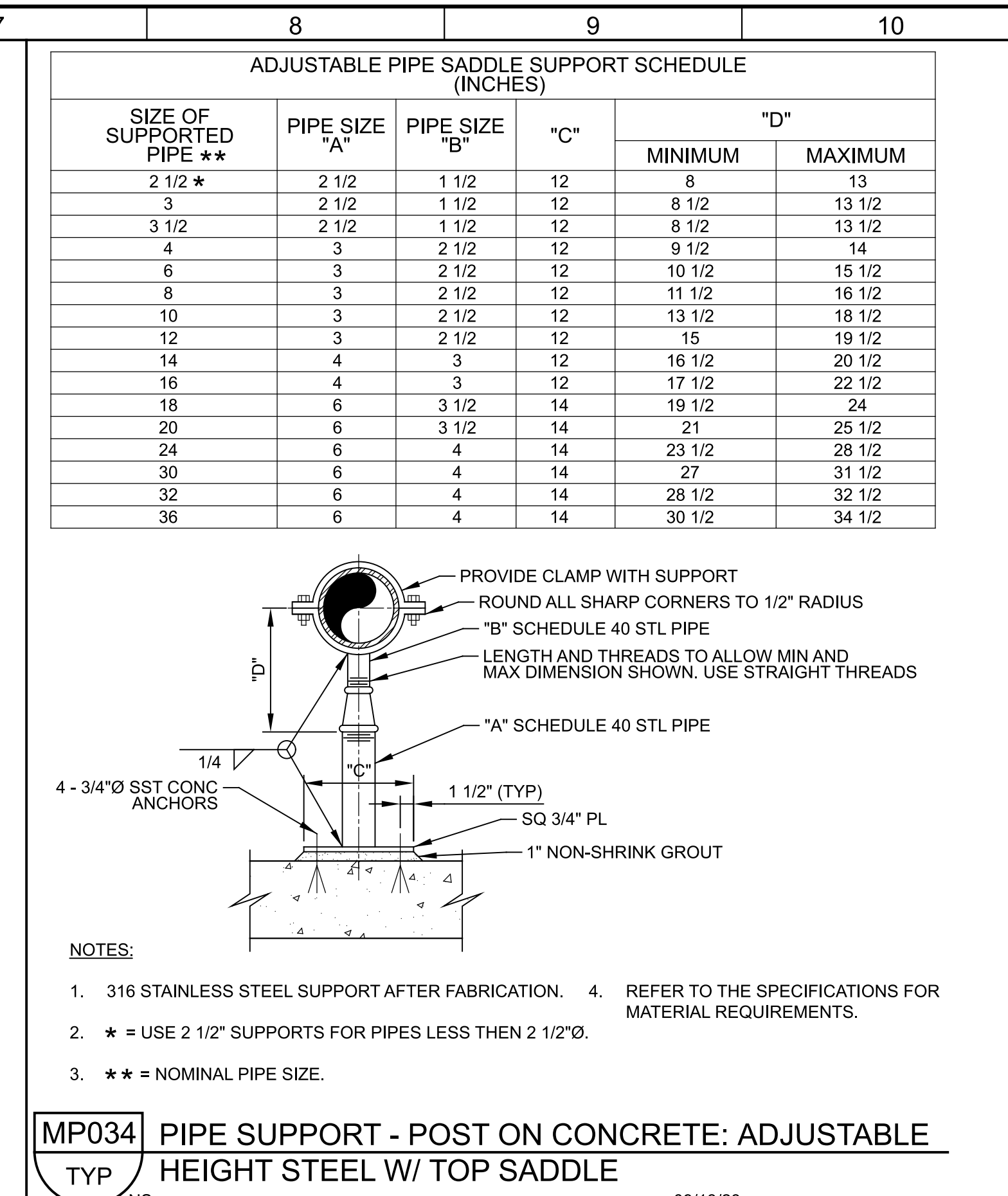
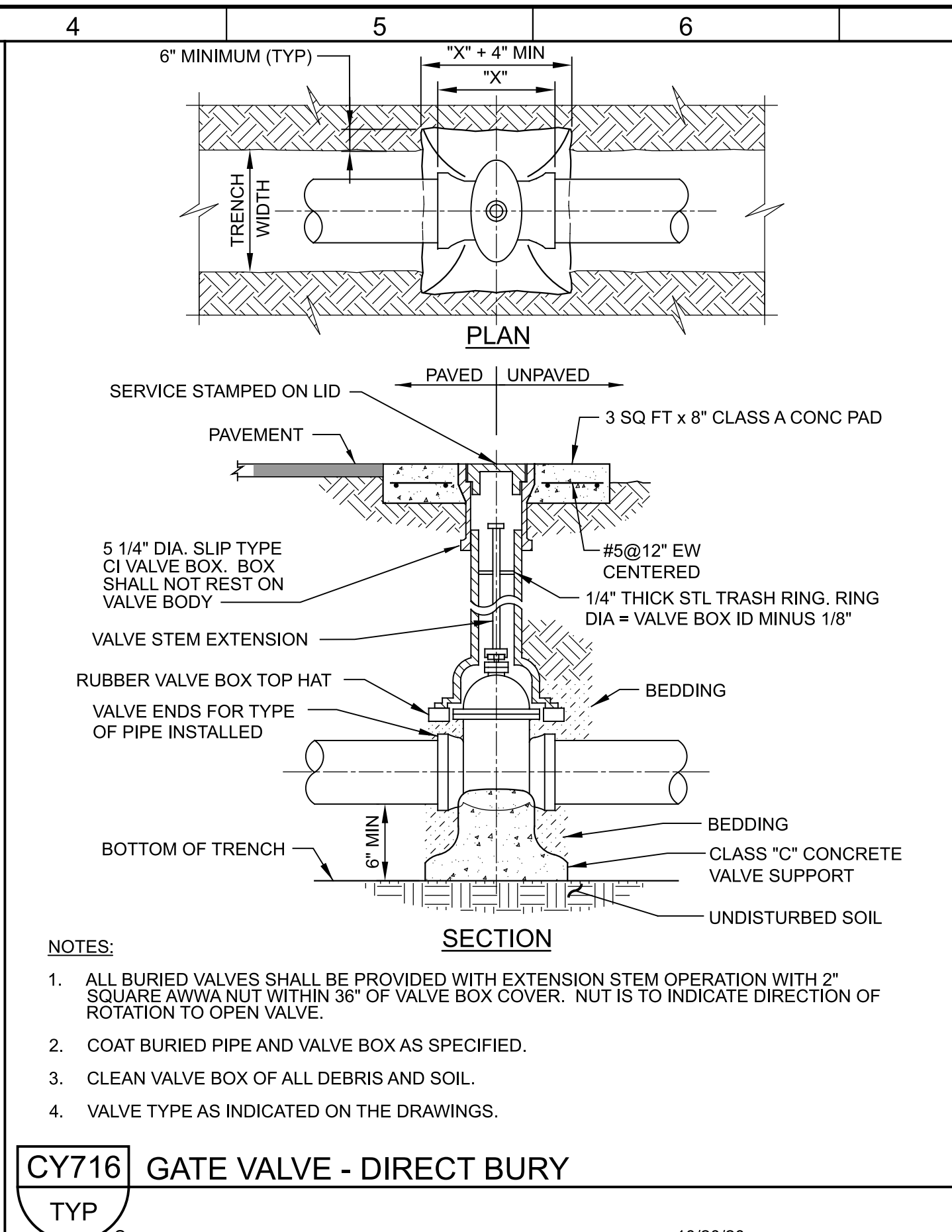
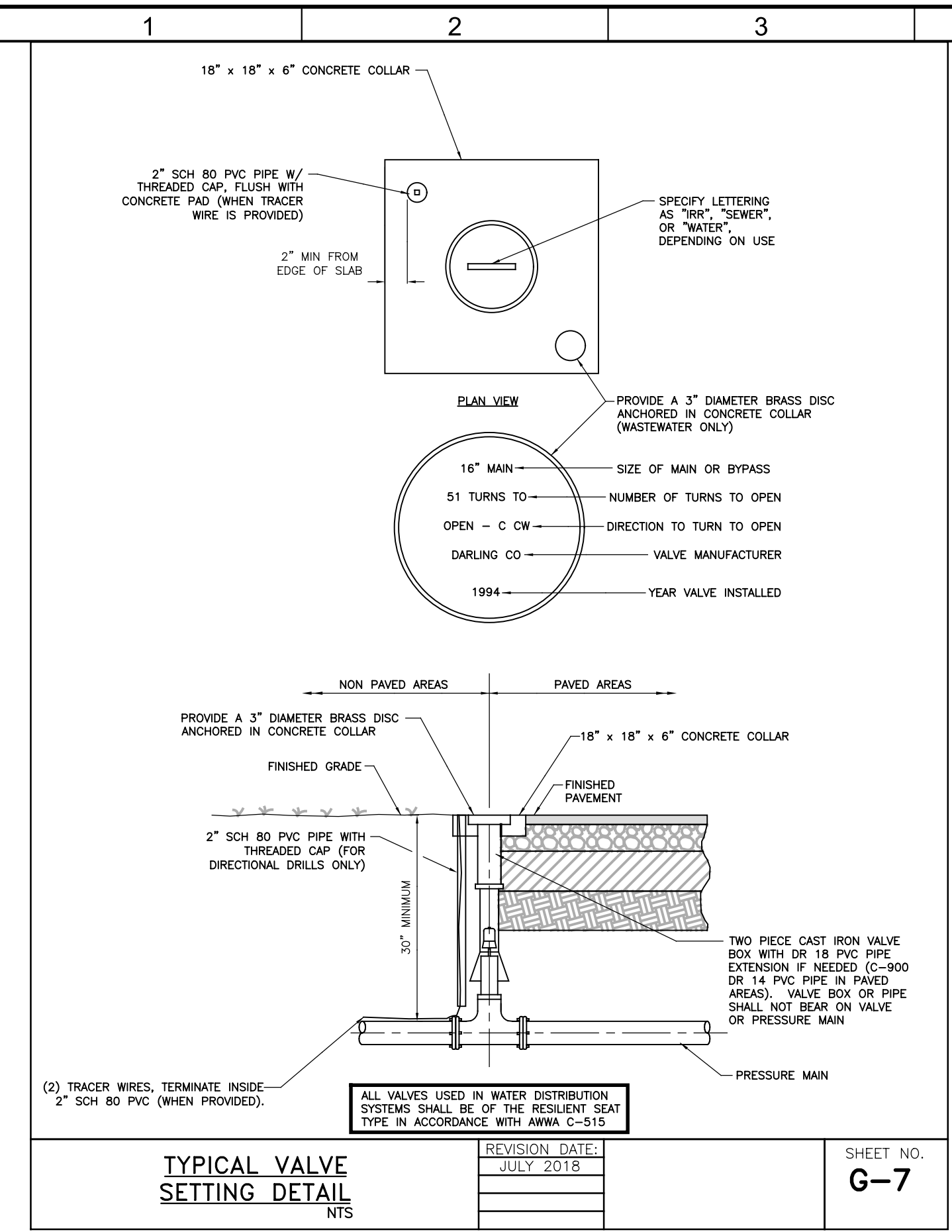


Plot Date: 14-MAR-2024 9:05:11 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

LAST SAVED BY: iyo



REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED NW  
DRAWN HV  
CHECKED GDM  
DATE MARCH 2024

C.T. REINBOLD  
LICENSE  
NO 68639  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL. 343232  
PHONE: (941) 371-9832 FAX: (941) 371-9873  
CA 00008571

**Collier County**

COLLIER COUNTY

SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT

TYPICALS

MECHANICAL TYPICAL

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202327

DRAWING NO. 00TM01

SHEET NO. 12 OF 25

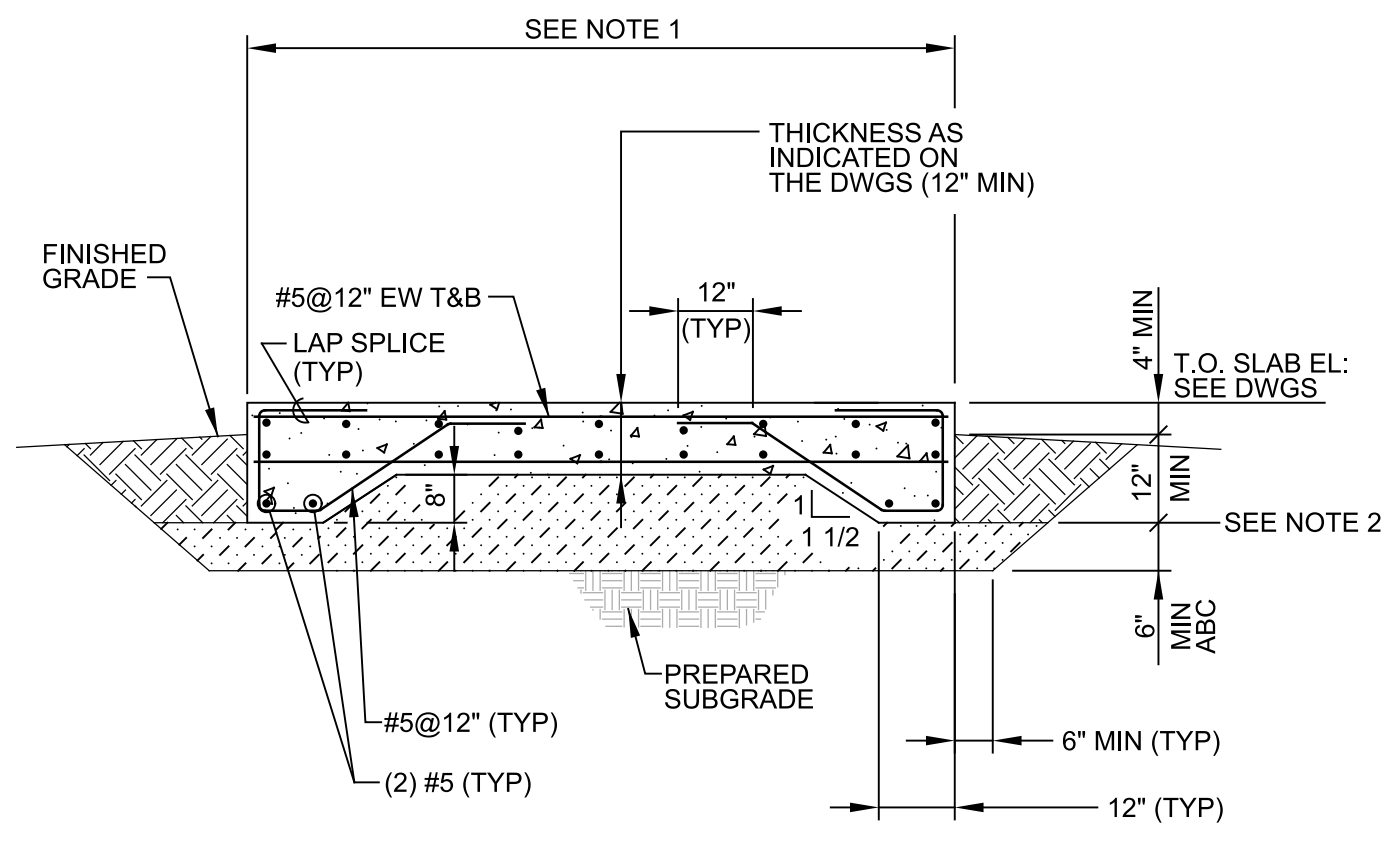


Plot Date: 12-MAR-2024 2:28:29 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 1:1

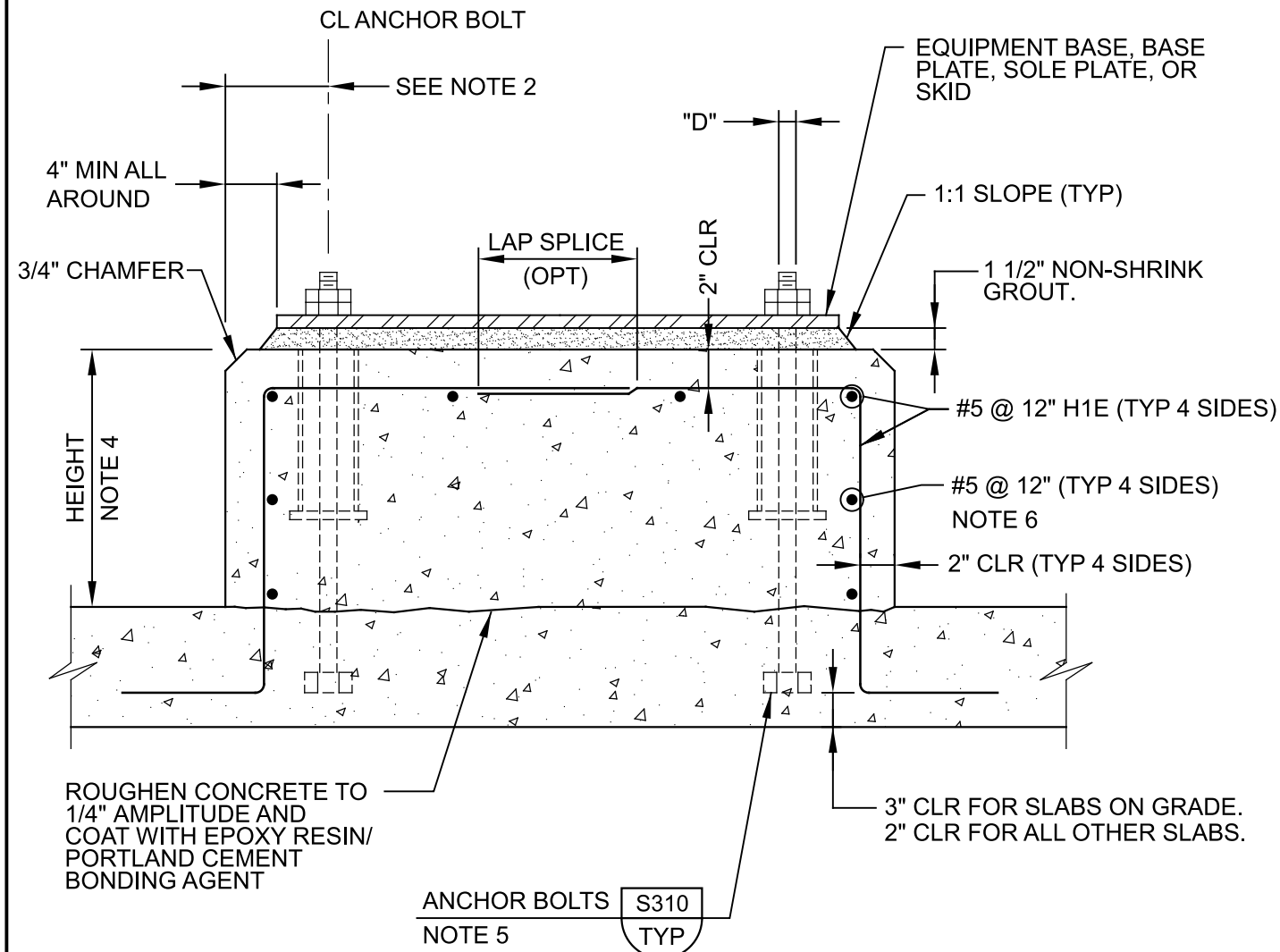
LAST SAVED BY: hvo



- NOTE:
- DIMENSIONS AS REQUIRED TO SUIT EQUIPMENT OR AS INDICATED ON THE DRAWINGS.
  - MAKE ELEVATION AT BOTTOM OF THICKENED EDGE UNIFORM AROUND PAD. SET ELEVATION TO PROVIDE INDICATED HEIGHT ABOVE AND DEPTH BELOW FINISHED GRADES INDICATED ON THE DRAWINGS.

**S300** EQUIPMENT SLAB  
TYP

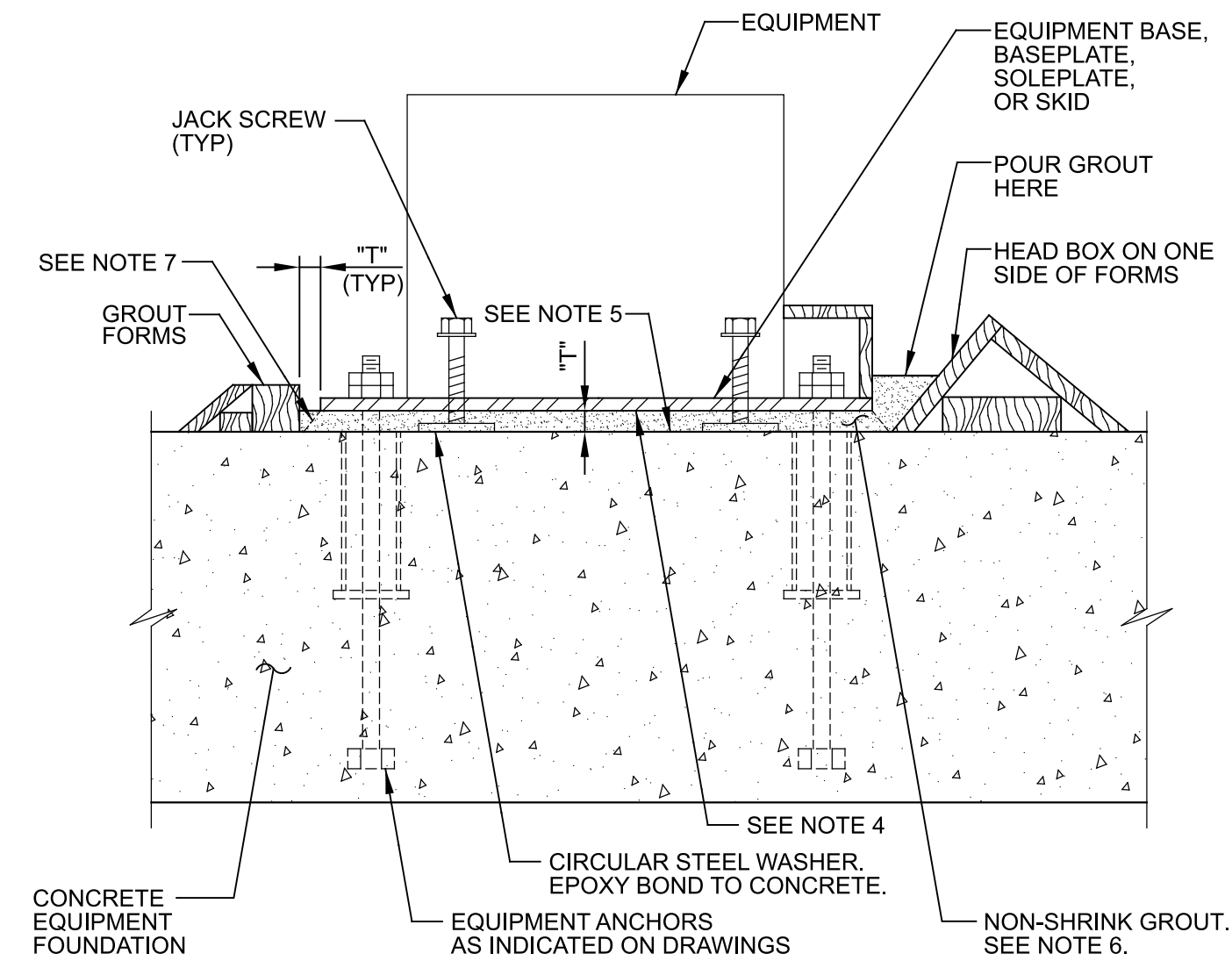
09/21/23



- NOTES:
- "D" = DIAMETER OF ANCHOR BOLT.
  - THE EDGE DISTANCE ON THE ANCHOR BOLTS SHALL NOT BE LESS THAN 6" OR 8 x "D".
  - PAD DIMENSIONS AND ANCHOR BOLT SIZE SHALL CONFORM TO EQUIPMENT MANUFACTURER'S REQUIREMENTS.
  - HEIGHT TO SUIT EQUIPMENT FURNISHED OR AS INDICATED ON THE DRAWINGS.
  - WHERE CONCRETE SLAB OR BEAM THICKNESS WILL NOT ACCOMMODATE THE ANCHOR BOLT, PROVIDE EXTRA THICKNESS FOR SLAB OR BEAM.
  - PROVIDE HOOPS OR CORNERS.

**S302** EQUIPMENT BASE  
TYP

07/07/2023



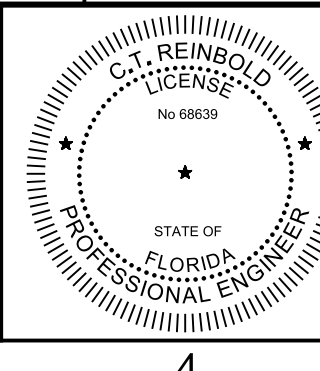
- NOTES:
- "T" = EQUALS GROUT THICKNESS INDICATED ON THE DRAWING. 1" MINIMUM GROUT THICKNESS.
  - FILL ANCHOR SLEEVES WITH POLYURETHANE FOAM BEFORE GROUTING.
  - DO NOT USE LEVELING NUTS ON EQUIPMENT ANCHORS.
  - PREPARE SURFACE OF EQUIPMENT BASES, BASE PLATES, SOLE PLATES, AND SKIDS IN CONTACT WITH GROUT AS SPECIFIED IN SECTION (03\_60\_00).
  - PREPARE SURFACES OF CONCRETE FOUNDATION IN CONTACT WITH GROUT AS SPECIFIED IN SECTION (03\_60\_00).
  - PLACE NON-SHRINK GROUT AS SPECIFIED IN SECTION (03\_60\_00).
  - AFTER GROUT SETS, TRIM GROUT TO 45 DEGREE CHAMFER.

**S320** EQUIPMENT GROUTING WITH NON-SHRINK GROUT  
TYP

12/15/20

REV	DATE	BY	DESCRIPTION

DESIGNED	NW
DRAWN	HV
CHECKED	GDM
DATE	MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY C.T. REINBOLD ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL. 343232  
PHONE: (941) 371-9832 FAX: (941) 371-9873  
CA 00008571

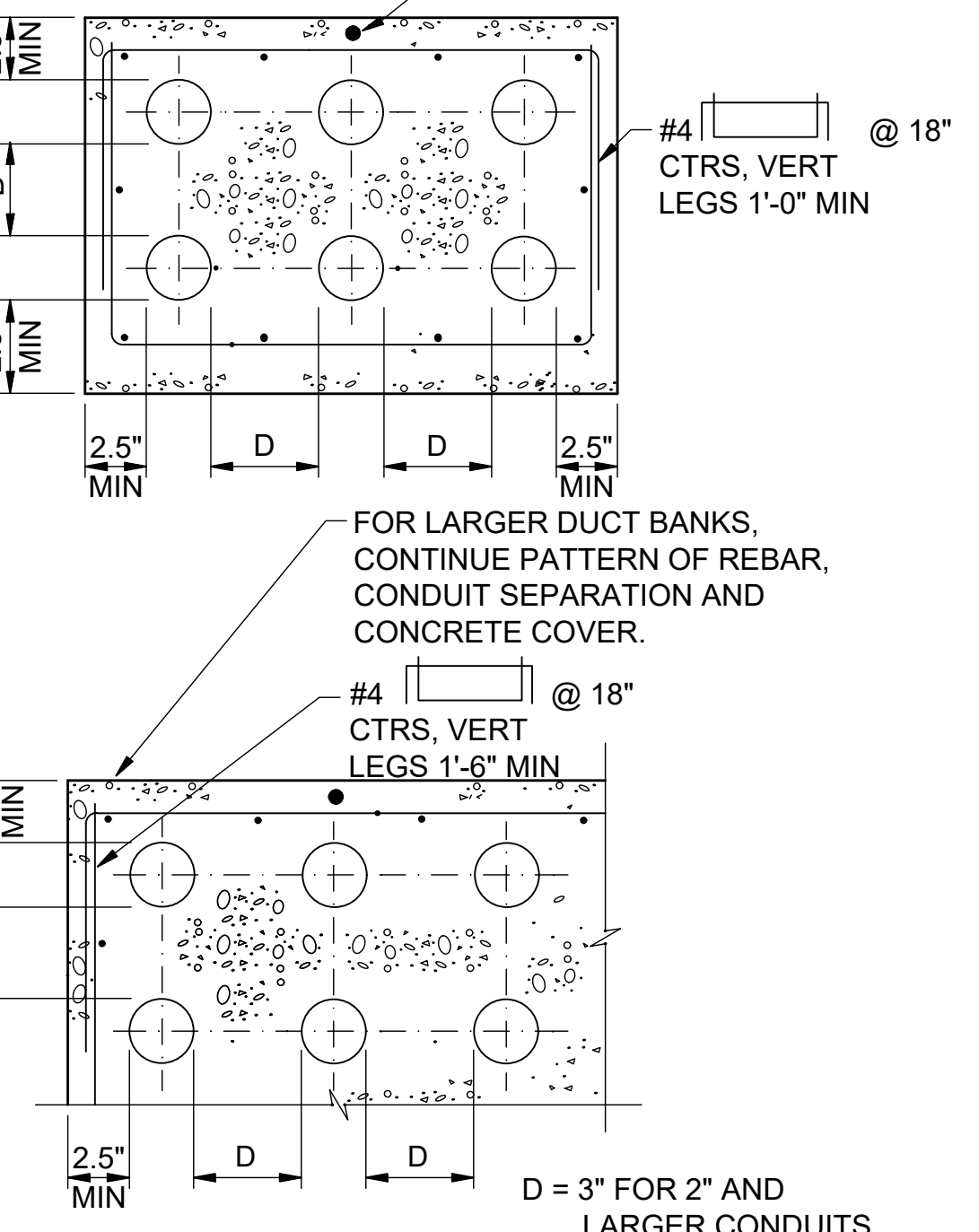
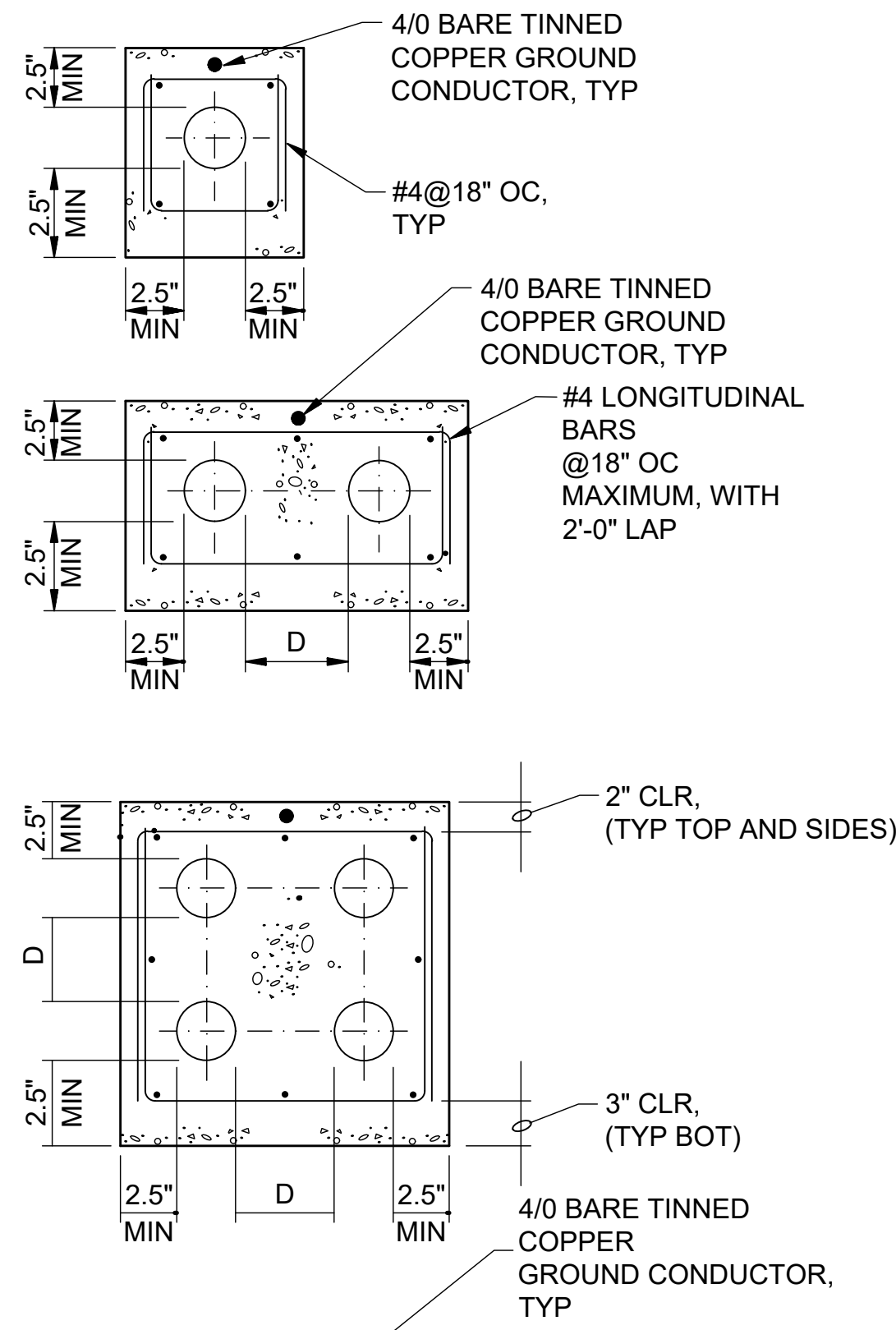


COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOW METER REPLACEMENT  
TYPICALS  
STRUCTURAL TYPICAL

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 202327  
DRAWING NO. 00TS01  
SHEET NO. 13 OF 25

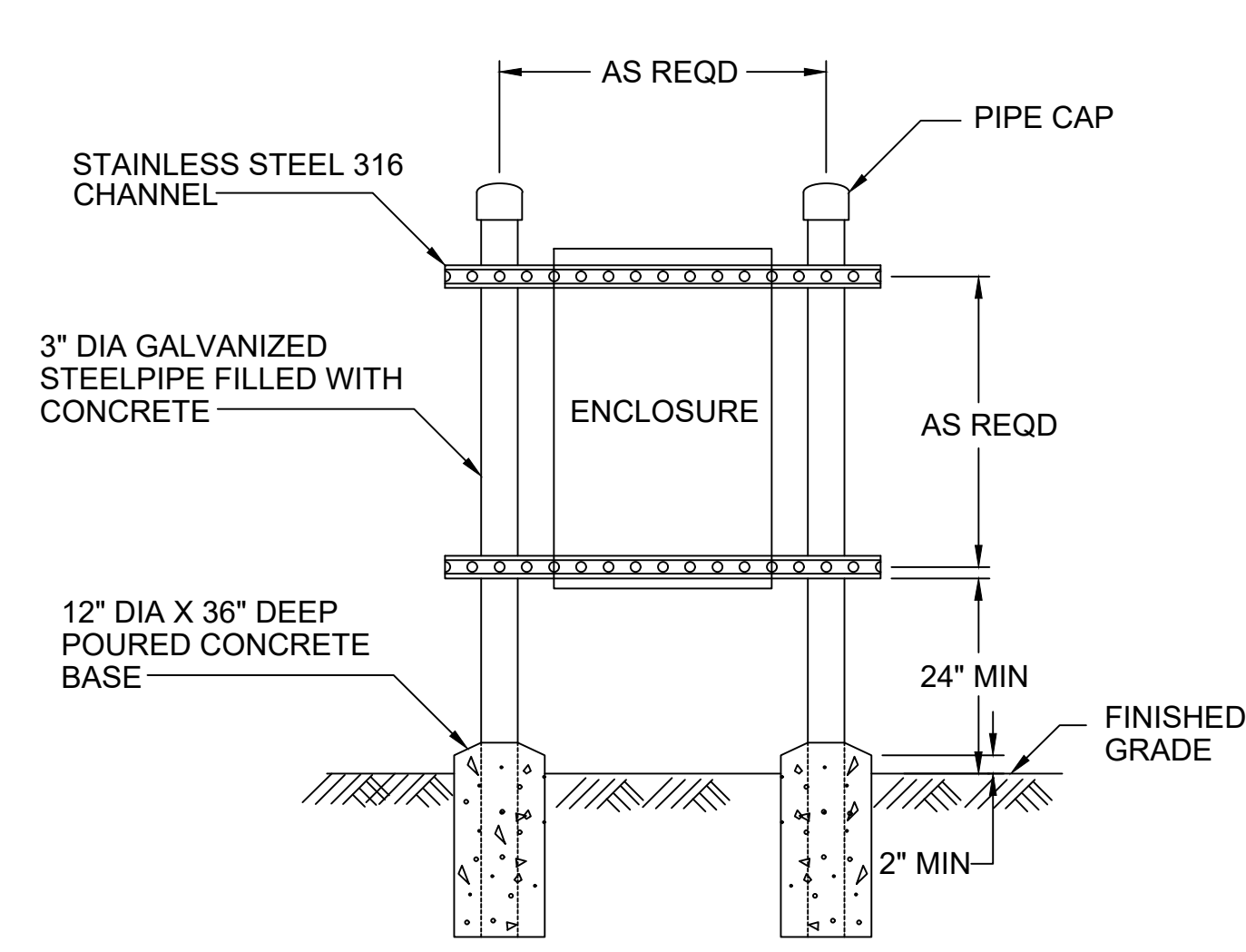




**NOTE:**

1. PROVIDE 6" MINIMUM COMPACTED GRAVEL, 3/4" MINUS.
2. UNDER ALL CONCRETE ENCASED DUCT RUNS. PROVIDE CLASS CE CONCRETE PER SPECIFICATION SECTION 03300.

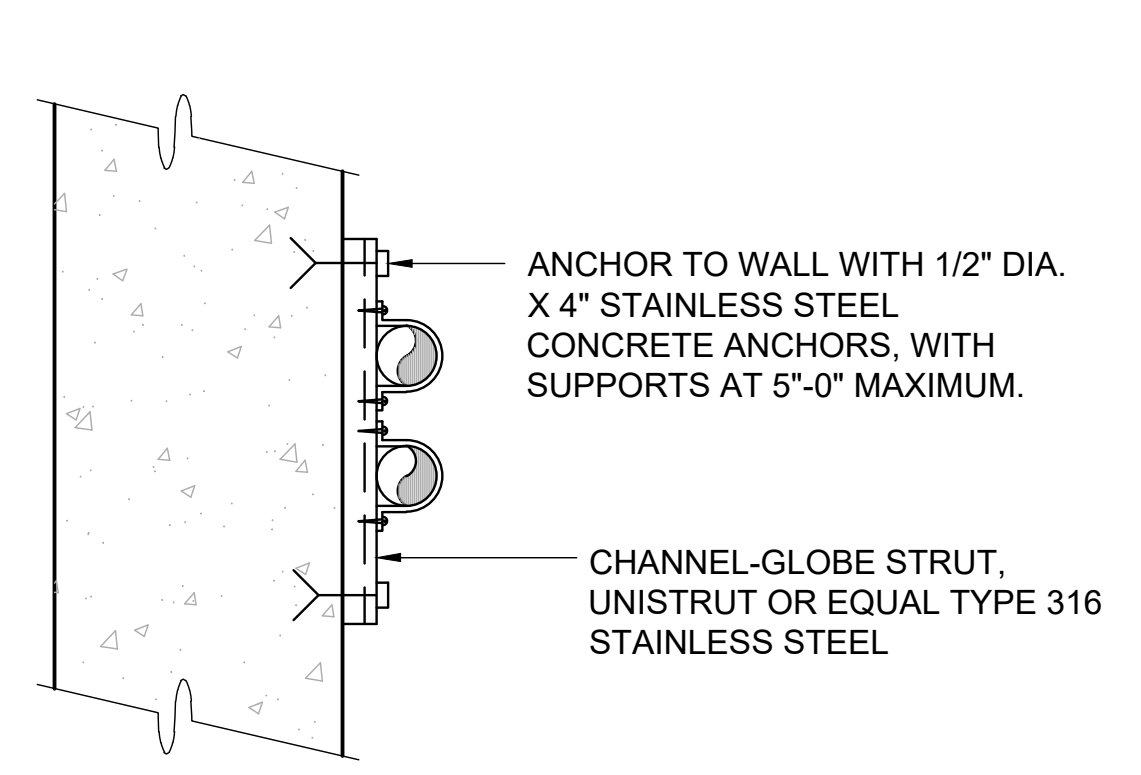
**CONCRETE ENCASED DUCTBANK DETAIL**  
SCALE: NTS



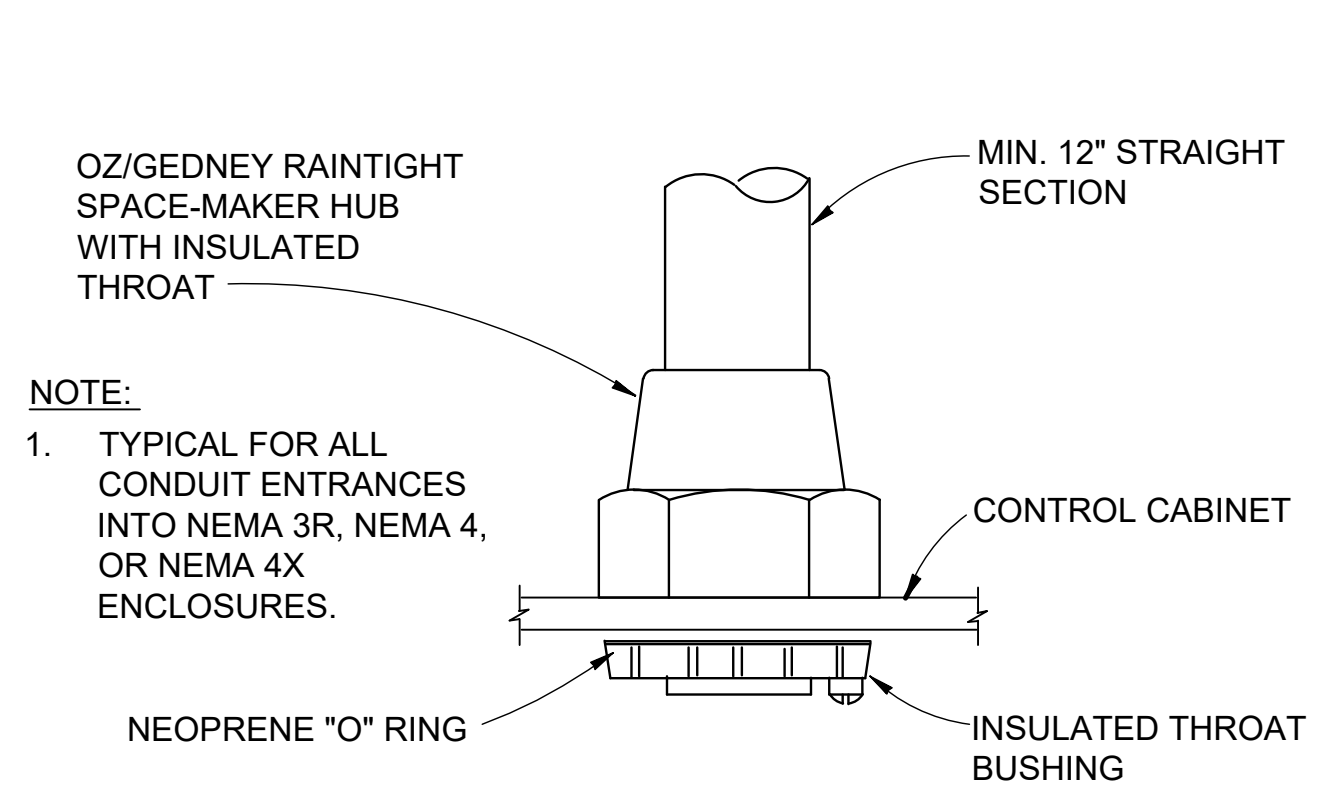
**NOTE:**

1. PROVIDE CLASS A CONCRETE PER SPECIFICATION SECTION 03300.

**ENCLOSURE MOUNTING STAND**  
SCALE: NTS



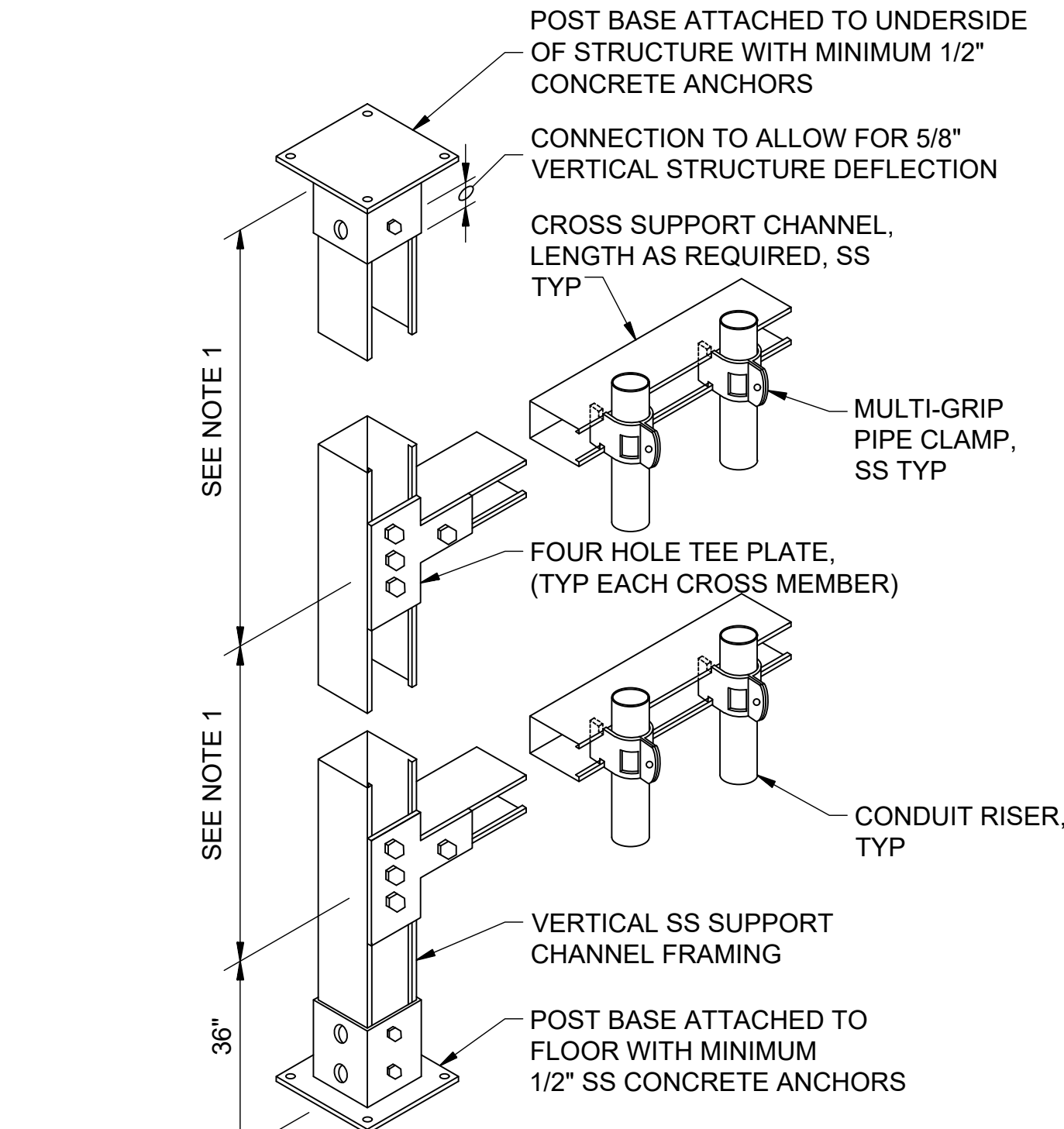
**CONDUIT SUPPORT**  
SCALE: NTS



**CONDUIT HUB**  
SCALE: NTS

**NOTE:**

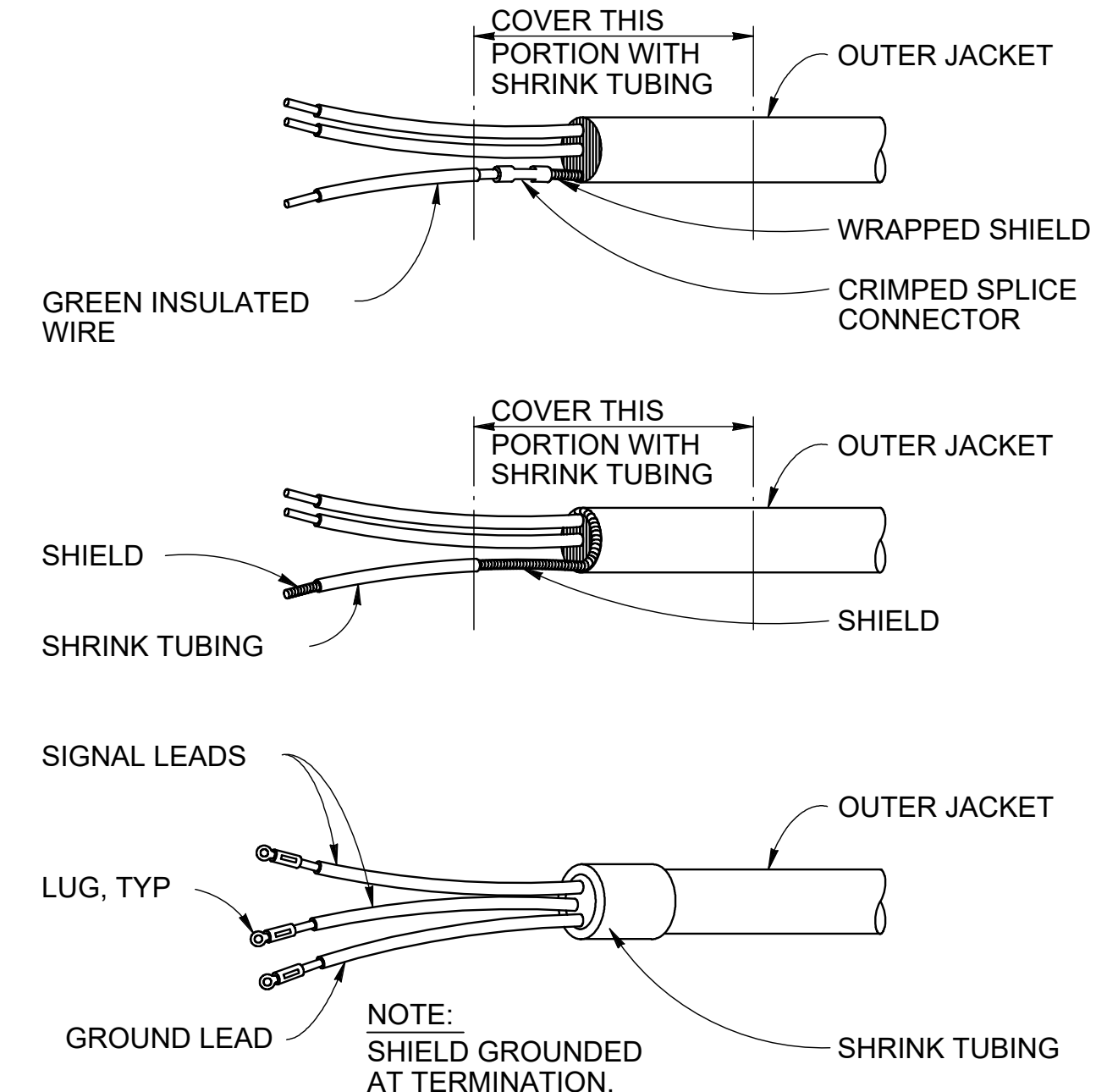
1. TYPICAL FOR ALL CONDUIT ENTRANCES INTO NEMA 3R, NEMA 4, OR NEMA 4X ENCLOSURES.



**NOTES:**

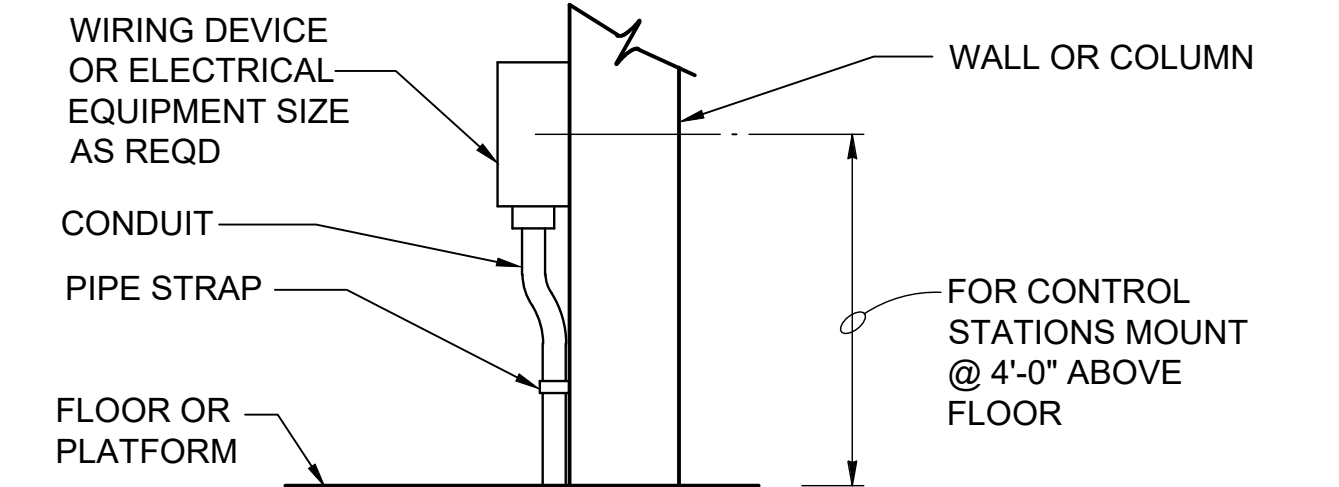
1. LENGTH AS REQUIRED TO LIMIT UNSUPPORTED CONDUIT LENGTH TO MAXIMUM VALUES ALLOWED BY NEC.
2. ALL MATERIALS AND FASTENING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL (SS).

**VERTICAL CONDUIT SUPPORT**  
SCALE: NTS



**TERMINATION OF SHIELDED CONTROL CABLE**  
SCALE: NTS

**NOTE:** SHIELD GROUNDED AT TERMINATION.



**NOTE:**

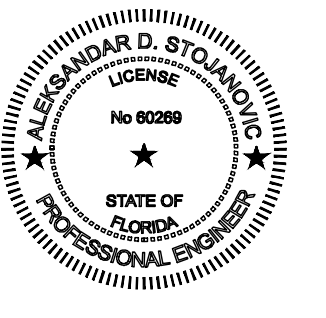
1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL 316. ON CONCRETE WALLS, USE MALLEABLE IRON INSERTS, MOUNT ENCLOSURE ON 1/4" SPACERS OF 1/2" RIGID CONDUIT.

**WALL OR COLUMN MOUNTED DEVICE**  
SCALE: NTS

LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION
1			
2			
3			

BID SET	DESIGNED ADS
	DRAWN NDP
	CHECKED ADS
	DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



COLLIER COUNTY

SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT

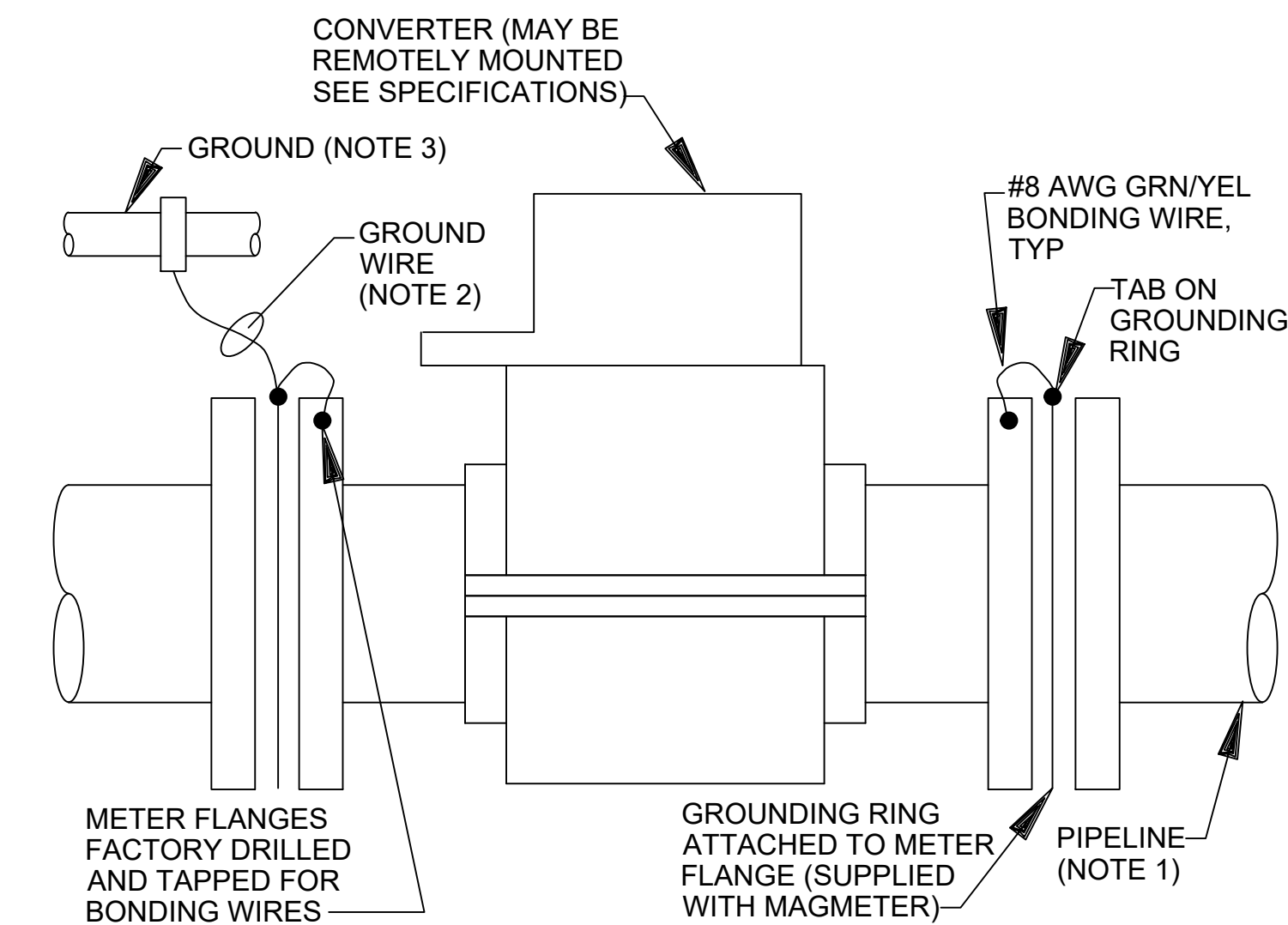
ELECTRICAL

DETAILS SHEET NO.1

VERIFY SCALES	JOB NO. 202327
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. TE-1
0 1" SCALE	SHEET NO. 14 OF 25







**NOTES:**

1. USE THIS DETAIL WHEN PIPELINE IS ELECTRICALLY NON-CONDUCTIVE (NON-METALLIC OR METALLIC WITH INSIDE COATING OR LINING).
2. NO. 12 AWG INSULATED IF LENGTH IS LESS THAN 6'. IF MORE THAN 6', INSTALL CONDUCTOR IN 3/4" CONDUIT.
3. BOND MAGMETER TO ONE OF THE FOLLOWING ACCEPTABLE GROUNDS:
  - A) METALLIC WATER PIPE IF BURIED PORTION IS MORE THAN 10'.
  - B) STRUCTURAL STEEL
  - C) IF BOTH OF THE ABOVE NOT AVAILABLE, INSTALL 3/4" DIA x 10'-0" LONG COPPER CLAD STEEL GROUND ROD IN GROUND OUTSIDE OF STRUCTURE

**NON-CONDUCTIVE MAGMETER GROUNDING**

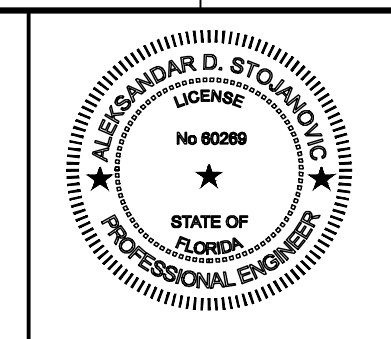
NTS



LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION

DESIGNED	ADS
DRAWN	NDP
CHECKED	ADS
DATE	MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571



COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT  
INSTRUMENTATION  
DETAILS SHEET NO.1

VERIFY SCALES	JOB NO. 202327
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00TN01
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 15 OF 25



ELECTRICAL PLAN/LAYOUT

ONE LINE DIAGRAMS, RISER DIAGRAMS AND SCHEMATICS

SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL CABINET
	TERMINAL JUNCTION BOX
	ELECTRICAL EQUIPMENT
	CEILING MOUNTED DOWNLIGHT LUMINAIRE - SEE SCHEDULE FOR TYPE
	FLOURESCENT LUMINAIRE, SURFACE OR LAY IN TYPE SEE SCHEDULE FOR TYPE
	LUMINAIRE AND POLE - SEE SCHEDULE FOR TYPE
	WALL MOUNTED LUMINAIRE - SEE SCHEDULE FOR TYPE
	FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN SEE SCHEDULE FOR TYPE
	EXIT LIGHTS - SOLID SECTION IS DIRECTION OF FACE SEE SCHEDULE FOR TYPE
	EMERGENCY LIGHT WITH BATTERY PACK SEE SCHEDULE FOR TYPE
<b>LIGHTING FIXTURE POWER AND SWITCHING LEGEND</b>	
	X=FIXTURE TYPE
	Y= PANEL-CIRCUIT BRKR
	Z=SWITCH
	IF NO Z INDICATED, CONNECT DIRECTLY TO CIRCUIT BREAKER.
	CONDUIT/CONDUCTOR - REFER TO CIRCUIT SCHEDULE
	HOME RUN - PANEL AND CIRCUIT NUMBER SHOWN
	EXPOSED CONDUIT AND CONDUCTORS*
	UNDERGROUND CONDUIT AND CONDUCTORS* NOTE: * ALL UNMARKED CONDUIT RUNS CONSIST OF 2#12, 1#12G IN 3/4" C.
	YARD CONDUIT. REFER TO YARD CONDUIT SCHEDULE
	DIRECT BURIED CONDUIT
	CONDUIT, STUBBED AND CAPPED AS SHOWN
	GROUND WIRE, 4/0 UNLESS OTHERWISE NOTED
	6 FOOT GROUND WIRE PIGTAIL, 4/0 UNLESS OTHERWISE NOTED
	GROUND ROD - 5/8" x 20' COPPER CLAD UNLESS OTHERWISE NOTED. COUPLING TWO 10' RODS IS ACCEPTABLE.
	GROUND TEST WELL, SEE DETAIL
	WALL SWITCH: 2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED 4- FOUR WAY D- DIMMER WP- WEATHERPROOF CRE- CORROSION RESISTANT
	CONVENIENCE RECEPTACLE - 20A DUPLEX UNLESS SPECIFIED OTHERWISE WP- WEATHERPROOF C- CLOCK HANGER TL- TWIST LOCK CRE- CORROSION RESISTANT GFI-GROUND FAULT INTERRUPTER
	CONVENIENCE RECEPTACLE - 20A QUADROPLEX UNLESS SPECIFIED OTHERWISE
	CONVENIENCE RECEPTACLE - 20A DUPLEX UNLESS SPECIFIED OTHERWISE. LOCATED ABOVE COUNTER TOP GFI-GROUND FAULT INTERRUPTER
	CONVENIENCE RECEPTACLE - 20A DUPLEX UNLESS SPECIFIED OTHERWISE. MOUNTED FLUSH IN FLOOR.
	RECEPTACLE, SPECIAL PURPOSE - AMPERAGE AS INDICATED.
	TELEPHONE/DATA RECEPTACLE (OUTLET BOX, 18" AFF) W - WALL MOUNTED, 54" AFF
	TELEPHONE/DATA RECEPTACLE MOUNTED FLUSH IN FLOOR
	JUNCTION BOX NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. 4X = NEMA 4X SS
	FIRE ALARM PULL STATION
	FIRE ALARM HORN/STROBE LIGHT
	FIRE ALARM STROBE LIGHT
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	SURVEILLANCE CAMERA X - 90, 180 OR 360 CAMERA
	SECURITY SYSTEM DOOR SWITCH

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE ALARM SMOKE DETECTOR EC- MOUNTED TO EXPOSED CEILING H- HARSH ENVIRONMENT RATED		FIRE ALARM HEAT DETECTOR EC- MOUNTED TO EXPOSED CEILING
	BEAM DETECTOR, T=TRANSMITTER, R=RECEIVER		DUCT SMOKE DETECTOR
	REMOTE TELEMETRY UNIT		SECURITY CARD READER
<b>ABBREVIATIONS</b>			
<b>ABBREVIATIONS</b>	<b>DESCRIPTION</b>	<b>ABBREVIATIONS</b>	<b>DESCRIPTION</b>
A	AMMETER, AMPERE	MCB	MAIN CIRCUIT BREAKER
AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
AF	AMPERE FRAME	MDP	MAIN DISTRIBUTION PANEL
AFD	ADJUSTABLE FREQUENCY DRIVE	MERC	MERCURY VAPOR
AFF	ABOVE FINISHED FLOOR	MH	MOTOR HEATER, MANHOLE
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AS	AMMETER SWITCH, AMPERE SENSOR	MPZ	MINI POWER ZONE
ASU	AIR SUPPLY UNIT	MPR	MOTOR PROTECTION RELAY
ATS	AUTOMATIC TRANSFER SWITCH	MS	MOTOR STARTER
BC	BYPASS CONTACTOR	MSC	MANUFACTURER SUPPLIED CABLE
BRKR	BREAKER	MT	MOUNT
C	CONDUIT, CONTACTOR	MTD	MOTOR TEMPERATURE DETECTOR
CB	CIRCUIT BREAKER	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CMS	COMBINATION MOTOR STARTER	NEMA	NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
CPT	CONTROL POWER TRANSFORMER	NO	NORMALLY OPEN
CR	CONTROL RELAY	NP	NAMEPLATE
CRE	CORROSION RESISTANT	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	OL	OVERLOAD RELAY
DC	DIRECT CURRENT	OLM	OPTICAL LINK MODULE
DIV	DIVISION	P	POLE
DP	DISTRIBUTION PANEL (480V)	PB	PULL BOX
EF	EXHAUST FAN	PC	PHOTOCELL
EG	ELECTRICAL GROUND	PH	PHASE
ETM	ELAPSED TIME METER	PM	PHASE MONITOR, POWER METER
EXST	EXISTING	PNL	PANEL
FDR	FEEDER	PP	POWER PANEL (480VAC)
F, FU	FUSE	PR	PAIR
FI	FLOW INDICATOR	PS	PRESSURE SWITCH
FLR	FLOOR	PT	POTENTIAL TRANSFORMER
FLUOR	FLUORESCENT	PVC	POLYVINYL CHLORIDE CONDUIT
FM	FLOW METER	RCPT	RECEPTACLE
FO	FIBER OPTIC	RMS	ROOT MEAN SQUARE
FS	FLOAT SWITCH, FLOW SWITCH	RS	RIGID STEEL CONDUIT
FT	FLOW TRANSMITTER	RGS	RIGID GALVANIZED STEEL CONDUIT
FUT	FUTURE	RTU	REMOTE TELEMETRY UNIT
FVNR	FULL VOLTAGE NON-REVERSING STARTER	SC	SURGE CAPACITOR
G	GREEN, GROUND	SF	SUPPLY FAN
GEN	GENERATOR	SH	SPACE HEATER
GFI	GROUND FAULT INTERRUPTER	S/N	SOLID NEUTRAL
GFR	GROUND FAULT RELAY	SPD	SURGE PROTECTION DEVICE
GND	GROUND	SSRV	SOLID STATE REDUCED VOLTAGE STARTER
HH	HANDHOLE	SS	STAINLESS STEEL
HID	HIGH INTENSITY DISCHARGE	SV	SOLENOID VALVE
HOA	HAND/OFF/AUTO	SW	SWITCH
HOR	HAND/OFF/REMOTE	SWBD	SWITCHBOARD
HPS	HIGH PRESSURE SODIUM	SWGR	SWITCHGEAR
HVAC	HEATING, VENTILATING & AIR CONDITIONING	SYM	SYMMETRICAL
IC	INTERRUPTING CAPACITY	T	THERMOSTAT
I & C	INSTRUMENTATION AND CONTROL	TB	TERMINAL BOARD
IMH	INSTRUMENTATION MANHOLE	TDR	TIME DELAY RELAY
INST	INSTANTANEOUS	TJB	TERMINAL JUNCTION BOX
IP	INSTRUMENT PANEL (PANELBOARD)	TS	THERMAL SWITCH
J, J-BOX	JUNCTION BOX	TSP	TWISTED SHIELDED PAIR
K	KEY INTERLOCK	TYP	TYPICAL
KK	KIRK KEY INTERLOCK	UPS	UNINTERRUPTIBLE POWER SUPPLY
LA	LIGHTNING ARRESTER	UVR	UNDER VOLTAGE RELAY
LC	LIGHTING CONTACTOR	V	VOLTMETER, VOLT
LP	LIGHTING PANEL (PANELBOARD)	VFD	VARIABLE FREQUENCY DRIVE
LR	LOCAL/REMOTE, LATCHING RELAY	VS	VOLTMETER SWITCH
LS	LIMIT SWITCH	W	WATT
LT FLEX	LIQUID TIGHT FLEX CONDUIT	WHD	WATTHOUR DEMAND METER
LTG	LIGHTING	WP	WEATHERPROOF
M	MAGNETIC CONTACTOR COIL OR MOTOR	XFMR	TRANSFORMER
MA	MILLIAMPS		

SYMBOL	DESCRIPTION
	MOTOR, SQUIRREL CAGE INDUCTION UNLESS OTHERWISE NOTED - HORSEPOWER INDICATED
	OVERLOAD RELAY HEATER
	MAGNETIC STARTER WITH NEMA SIZE INDICATED
	MOTOR CIRCUIT PROTECTOR, MAGNETIC, 3 POLE UNLESS INDICATED OTHERWISE.
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
	SWITCH - CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
	DRAWOUT CIRCUIT BREAKER, LOW VOLTAGE 600= FRAME RATING, 400=TRIP SETTING
	DRAWOUT CIRCUIT BREAKER, MEDIUM VOLTAGE 1200= FRAME RATING, 1200=TRIP SETTING
	DRAWOUT FUSED SWITCH, LOW OR MEDIUM VOLTAGE 600= FRAME RATING, 400=FUSE RATING
	CURRENT TRANSFORMER, NUMBER OF WINDINGS INDICATED
	TRANSFORMER, VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE
	LIGHTNING ARRESTER
	CAPACITOR OR SURGE CAPACITOR
	UTILITY METER
	GENERATOR
	METER SCALE RANGE SHOWN IF REQUIRED A - AMPS PM - PHASE MONITOR V - VOLTS P - POWER METER
	FUSE
	SURGE PROTECTION DEVICE
	GROUND
	CONTROL TRANSFORMER
	GROUND FAULT RELAY WITH C.T.
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED
	PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK
	REMOTE DEVICE
	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE
	PUSH TO TEST AND CONNECT INDICATING LIGHT SCHEMATIC DIAGRAMS ONLY A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE

SYMBOL	DESCRIPTION
	MANUAL MOTOR STARTER SWITCH, NEMA 4X SS UNLESS OTHERWISE NOTED. NUMBER OF POLES AS REQUIRED
	PUSH-BUTTON STATION, NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. 4X = NEMA 4X 316 STAINLESS STEEL ENCLOSURE. SEE CONTROL DIAGRAMS FOR TYPE PUSH BUTTON REQUIRED
	NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE, NEMA 12 ENCLOSURE, 4X = NEMA 4X 316 STAINLESS STEEL
	FUSED DISCONNECT SWITCH, SIZE INDICATED (60 = SWITCH RATING; 40 = FUSE RATING) 3 POLE UNLESS INDICATED OTHERWISE, NEMA 12 ENCLOSURE, 4X = NEMA 4X 316 STAINLESS STEEL
	LIGHTING CONTACTOR, CURRENT RATING INDICATED, NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM FOR NUMBER OF POLES. 4X = NEMA 4X 316 STAINLESS STEEL
	MAGNETIC STARTER, NEMA SIZE INDICATED, NEMA 12 ENCLOSURE, UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM. 4X = NEMA 4X 316 STAINLESS STEEL
	COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED), MAGNETIC STARTER, NEMA SIZE INDICATED, NEMA 12 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL SCHEMATIC DIAGRAM. 4X = NEMA 4X 316 STAINLESS STEEL
	ELECTRIC RESISTANCE HEATER
	ELAPSED TIME METER
	CONTACT - NORMALLY OPEN WITH COIL INDICATED
	CONTACT - NORMALLY CLOSED WITH COIL INDICATED
	CONTROL RELAY, X=SEQUENTIAL NUMBER
	LATCHING RELAY, X=SEQUENTIAL NUMBER L - LATCH, U - UNLATCH
	TIME DELAY RELAY, X=SEQUENTIAL NUMBER NOTC=NORMALLY OPEN TIMED CLOSED NOTO=NORMALLY OPEN TIMED OPEN AFTER CLOSE NCTO=NORMALLY CLOSED TIMED OPEN NCTC=NORMALLY CLOSED TIMED CLOSED AFTER OPEN
<b>TEMPERATURE</b>	
	OPENS ON RISING TEMPERATURE, CLOSES ON FALLING TEMPERATURE
	CLOSES ON RISING TEMPERATURE, OPENS ON FALLING TEMPERATURE
	SELECTOR SWITCH: MAINTAINED CONTACT WITH CONTACT POSITION INDICATED, CHART IDENTIFIES OPERATION

POSITION			
CKT.	HAND	OFF	AUTO
1	X	O	O
2	O	O	X

GENERAL

SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER SECTIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS SECTION.
	1" C, 2#12, 1#12G INDICATES RACEWAY AND CIRCUIT CONDUCTORS. FIRST NUMBER IS RACEWAY SIZE. THE FOLLOWING NUMBERS ARE THE CONDUCTOR QUANTITIES, SIZES, AND TYPES.
	DEMOLITION TO BE REMOVED OR DELETED
<b>LINE WEIGHT</b>	
	NEW
	EXISTING
NOTE: THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE UTILIZED ON PROJECT.	

REV	DATE	BY	DESCRIPTION

DESIGNED ADS  
DRAWN NDP  
CHECKED ADS  
DATE MARCH 2024

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**

301 NORTH CATTLEMAN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571

**Collier County**

COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT  
ELECTRICAL  
LEGEND

VERIFY SCALES  
JOB NO. 202327  
DRAWING NO. 00GE01  
SHEET NO. 16 OF 25



**GENERAL NOTES AND SPECIFICATIONS:**

1. NOT USED.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2017 (NFPA 70), ELECTRICAL SAFETY IN THE WORKPLACE (NFPA 70E), ALL MONROE COUNTY CODES AND LATEST FLORIDA BUILDING CODE.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO INCLUDE, BUT ARE NOT LIMITED TO, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF HIS BID IF NOT OTHERWISE NOTED. THE FOLLOWING PERMITS ARE REQUIRED: POWER, LIGHTING, INSTRUMENTATION, LIGHTNING PROTECTION, FIBER OPTIC, LOW VOLTAGE AND ELECTRICAL DEMOLITION.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ENGINEER AND THE OWNER.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND U.L. LISTED WHERE APPLICABLE.
8. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
9. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
10. ALL CONDUCTORS SHALL BE COPPER. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
11. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL & CONTROL EQUIPMENT AND MATERIAL.
12. ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BEAR A UL 508A LABEL ON THE PANEL.
13. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
14. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
15. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
16. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
17. NOT ALL CONDUITS SHOWN ON RISER AND ONE-LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE-LINE DIAGRAMS.
18. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
19. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
20. INSTRUMENTATION IS LOW VOLTAGE SIGNALS SUCH AS 4-20MA, TELEPHONE COMMUNICATION, FIRE ALARM COMMUNICATION. POWER CONDUIT SHALL ONLY CROSS INSTRUMENTATION CONDUIT PERPENDICULARLY AT RIGHT ANGLES WITH 6" SEPARATION.
21. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
22. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION CONDUITS SHALL BE:
 

VOLTAGE	DISTANCE
4160V - 15KV TO INST. CONDUIT	3 FT
480V - 600V TO INST. CONDUIT	2 FT
120V TO INST. CONDUIT	1 FT
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS SUCH AS HVAC, EXHAUST FANS, MIXERS, CHEMICAL PUMPS ETC. AND MODIFY ALL BREAKERS IN MCC'S AND PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
24. ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH THE OWNER.
25. MINIMUM DEPTH FROM TOP OF DUCT BANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
26. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 8" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:  
POWER: RED  
ALL OTHER CONDUITS: GREEN
27. CONTRACTOR SHALL RESTORE SIDEWALKS, ROADWAYS, SOD AND SPRINKLER SYSTEM PIPING TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.
28. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2017, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
29. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, AS SHOWN ON PLANS.
30. ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES (EXCEPT IN-GROUND PULL BOXES AND MANHOLES) ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
31. PRIMARY BUILDING GROUNDING SHALL BE AN EMBEDDED GRID OF MINIMUM #4/0 AWG WIRE INSTALLED IN THE FOUNDATION AND AROUND THE BUILDING PERIMETER TO FORM A COMPLETE LOOP. SECONDARY GROUND CONNECTIONS TO ALL METAL EQUIPMENT, HAND RAILS, STRUCTURAL STEEL, CONCRETE PADS, REBAR ETC. SHALL HAVE A MINIMUM #4 STRANDED COPPER CONDUCTOR BONDED USING APPROVED LUGS OR EXOTHERMIC CONNECTIONS. ALL EQUIPMENT GROUNDING CONDUCTORS PENETRATING CONCRETE SLABS OR FINISHED GRADE SHALL HAVE A 72" CONDUCTOR PIGTAIL AT EACH LOCATION FOR CONNECTION TO EQUIPMENT.
32. ALL CONCRETE ENCASED DUCTBANKS SHALL CARRY A MINIMUM #4/0 AWG BARE COPPER GROUND WIRE, OVER THE ENTIRE LENGTH, WHICH SHALL BE CONNECTED TO THE SITE GROUNDING GRID AND GROUND RODS LOCATED CONNECTING MANHOLES, HANDHOLES OR PULL BOXES.
33. CONTRACTOR SHALL CORE DRILL EXISTING CONCRETE WALLS, FLOORS, MANHOLES, HANDHOLES AND PULL BOXES FOR CONDUIT PENETRATIONS. SEAL PENETRATIONS WITH NON-SHRINK GROUT OR APPROPRIATE FIRE RATED DEVICES WHERE APPLICABLE.
34. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
35. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
36. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.
37. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES SHALL BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
38. ALL RECEPTACLES WITHIN 6' OF A SINK SHALL BE GFI.
39. FLEXIBLE CONDUITS SHALL BE USED TO TERMINATE ALL MOTORS AND OTHER VIBRATING EQUIPMENT AND SHALL BE BETWEEN 18" AND 3' IN LENGTH.
40. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
41. ALL SPD'S SHALL BE INTEGRAL TO THE NEW EQUIPMENT SHOWN AND SUPPLIED AS ONE UNIT AND ONE U.L. ENTITY.
42. ALL MATERIAL IN DESIGNATED CORROSIVE AREAS SHALL BE NEMA 4X STAINLESS STEEL OR NON-METALLIC.
43. ALL OUTDOOR LIGHTING FIXTURES SHALL BE OF COPPER FREE CONSTRUCTION.
44. ALL REFERENCES TO SS OR STAINLESS STEEL SHALL BE 316 STAINLESS STEEL.
45. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.
46. ALL YARD CONDUITS SHALL BE CONCRETE ENCASED ENTIRE LENGTH WHILE UNDER GROUND OR UNDER THE SLAB. REFER TO DRAWING 00TE01 FOR INSTALLATION DETAILS.
47. ALL CONDUIT CONNECTIONS TO NEMA 4X PANELS/ENCLOSURES SHALL USE MYERS HUBS (OR EQUAL) TO MAINTAIN 4X RATING.
48. NOT USED.
49. CONTRACTOR SHALL PROVIDE FOR A SATISFACTORY NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) INSPECTION FOR ALTERATIONS TO CONTROL PANELS, ELECTRICAL EQUIPMENT, OR ASSEMBLIES TO MAINTAIN THE ORIGINAL UL RATING.
50. PROVIDE AS-BUILT DRAWINGS AND MANUALS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 13-413.ABC.2.1 & 13-413.ABC.2.2
51. CONDUCTORS SHALL BE STRANDED COPPER, NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS. POWER CONDUCTORS SHALL BE XHHW IN WET LOCATIONS OR IN UNDERGROUND RACEWAYS AND SHALL BE THWN/THHN IN DRY LOCATIONS.
52. INSTRUMENTATION AND CONTROL CIRCUITS ORIGINATING FROM CONTROL PANELS CONTAINING A PLC ARE CLASSIFIED AS CLASS 1 POWER-LIMITED CIRCUITS PER NEC ARTICLE 725. CONTROL AND INSTRUMENTATION AND CONTROL CIRCUITS ORIGINATING FROM CONTROL PANELS WITHOUT A PLC OR FROM A MOTOR CONTROL CENTER ARE CLASSIFIED AS CLASS 1 REMOTE CONTROL AND SIGNALING CIRCUITS PER NEC ARTICLE 725.
53. ALL VERTICAL CONDUIT PENETRATIONS FROM CONCRETE SLAB SHALL HAVE A MAINTENANCE PAD TO PREVENT CORROSION.
54. AFFIX NAMEPLATES TO ALL DISCONNECT SWITCHES WITH THE NAME OF THE EQUIPMENT SERVED BY THE DISCONNECT SWITCH IN ACCORDANCE WITH NEC ARTICLE 110.22. NAMEPLATES SHALL BE AS DESCRIBED IN SPECIFICATION 26\_05\_04.
55. THERE ARE NO CLASSIFIED AREAS PERTAINING TO NEC ARTICLE 500 IN THIS FACILITY.

**NOTE:**

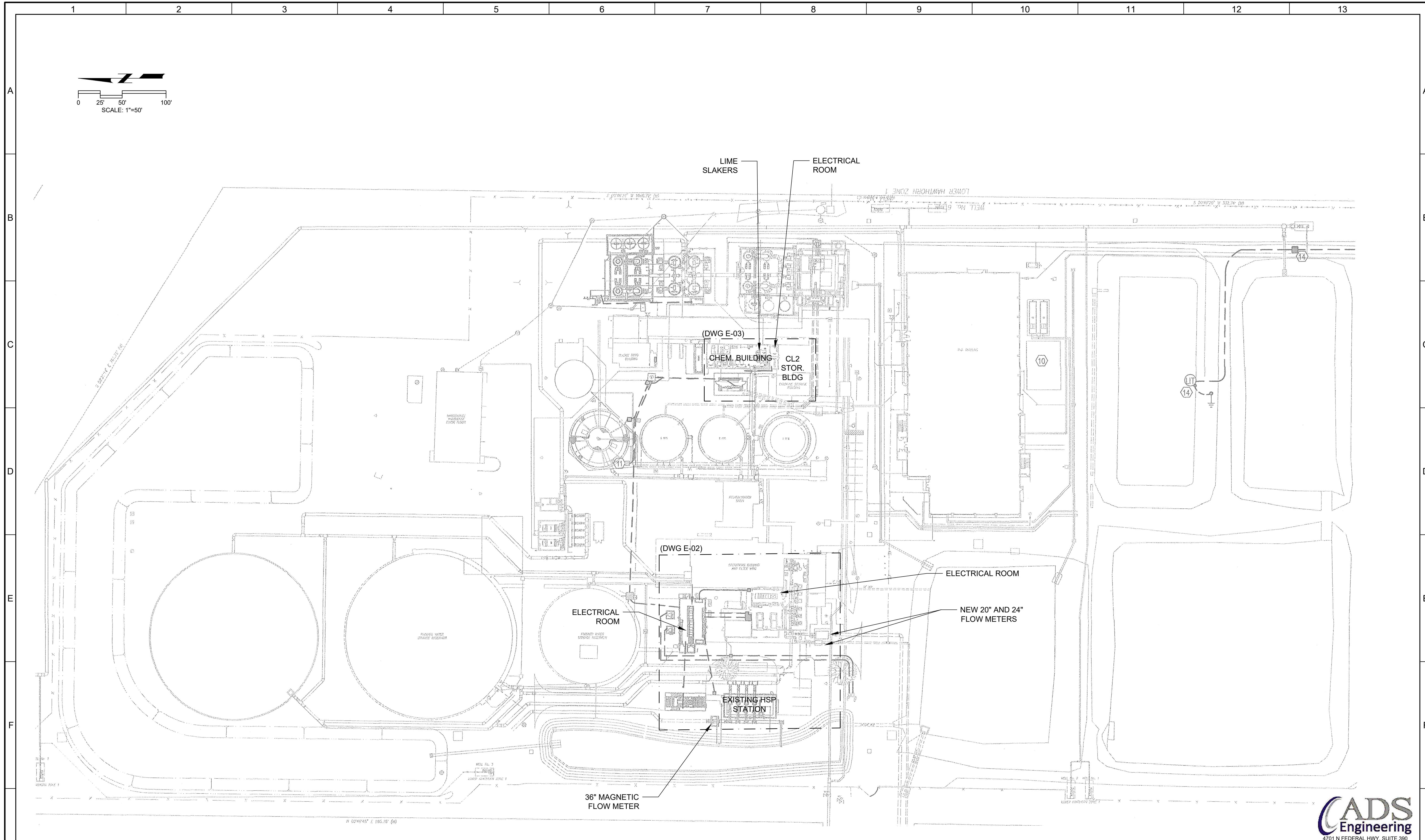
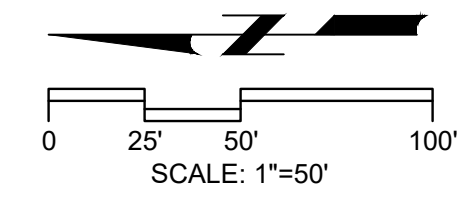
THE EXISTING ELECTRICAL INFORMATION IS OBTAINED FROM "RECORD DRAWINGS" AND OTHER "AS-BUILT DRAWINGS". CONTRACTOR SHALL VERIFY THE INFORMATION PROVIDED IN THESE DRAWINGS AND ADJUST ACCORDINGLY. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE SUBMITTING HIS BID.



LAST SAVED BY: ADS

BID SET			DESIGNED ADS				COLLIER COUNTY		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. <b>00GE02</b> SHEET NO. 17 OF 25
			DRAWN NDP				SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT			
			CHECKED ADS				ELECTRICAL NOTES			
REV	DATE	BY	DESCRIPTION	DATE MARCH 2024						

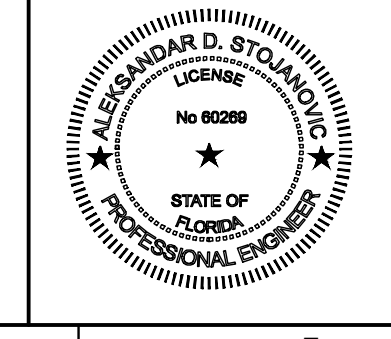




LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION

DESIGNED ADS	
DRAWN NDP	
CHECKED ADS	
DATE MARCH 2024	



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
301 NORTH CATTLEMAN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571

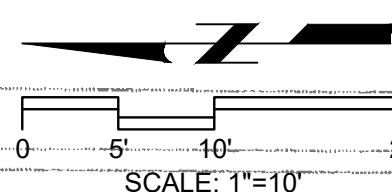


COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT  
ELECTRICAL  
SITE PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. 00E01 SHEET NO. 18 OF 25
--	--



AND FILTER WING

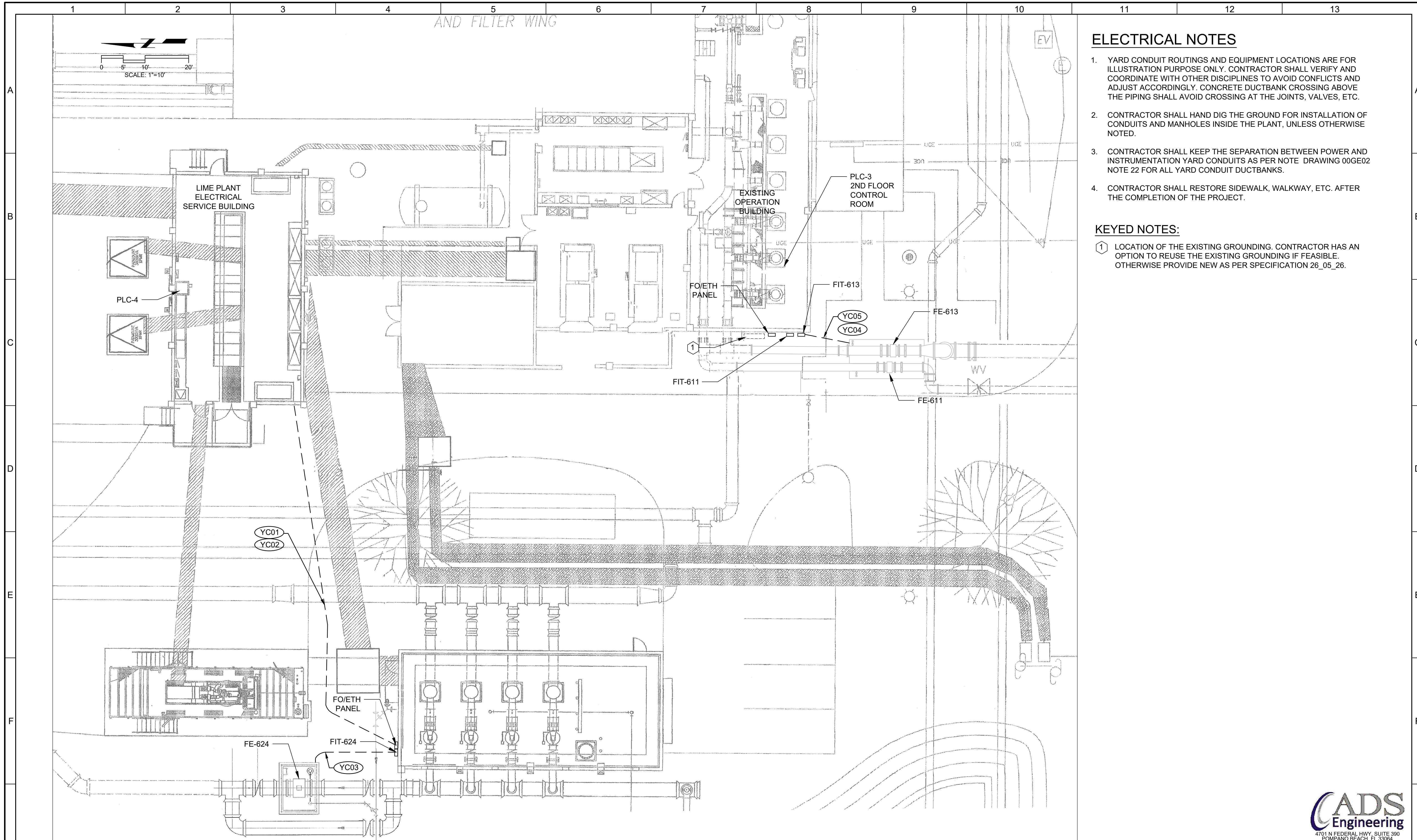


**ELECTRICAL NOTES**

1. YARD CONDUIT ROUTINGS AND EQUIPMENT LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS AND ADJUST ACCORDINGLY. CONCRETE DUCTBANK CROSSING ABOVE THE PIPING SHALL AVOID CROSSING AT THE JOINTS, VALVES, ETC.
2. CONTRACTOR SHALL HAND DIG THE GROUND FOR INSTALLATION OF CONDUITS AND MANHOLES INSIDE THE PLANT, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL KEEP THE SEPARATION BETWEEN POWER AND INSTRUMENTATION YARD CONDUITS AS PER NOTE DRAWING 00GE02 NOTE 22 FOR ALL YARD CONDUIT DUCTBANKS.
4. CONTRACTOR SHALL RESTORE SIDEWALK, WALKWAY, ETC. AFTER THE COMPLETION OF THE PROJECT.

**KEYED NOTES:**

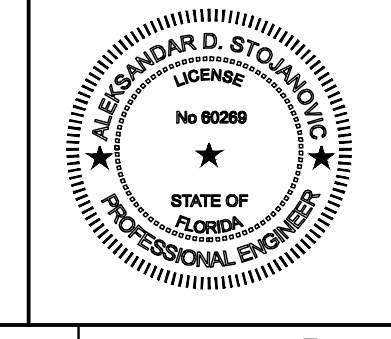
- ① LOCATION OF THE EXISTING GROUNDING. CONTRACTOR HAS AN OPTION TO REUSE THE EXISTING GROUNDING IF FEASIBLE. OTHERWISE PROVIDE NEW AS PER SPECIFICATION 26\_05\_26.



LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED ADS
DRAWN NDP
CHECKED ADS
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
301 NORTH CATTLEMAN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571

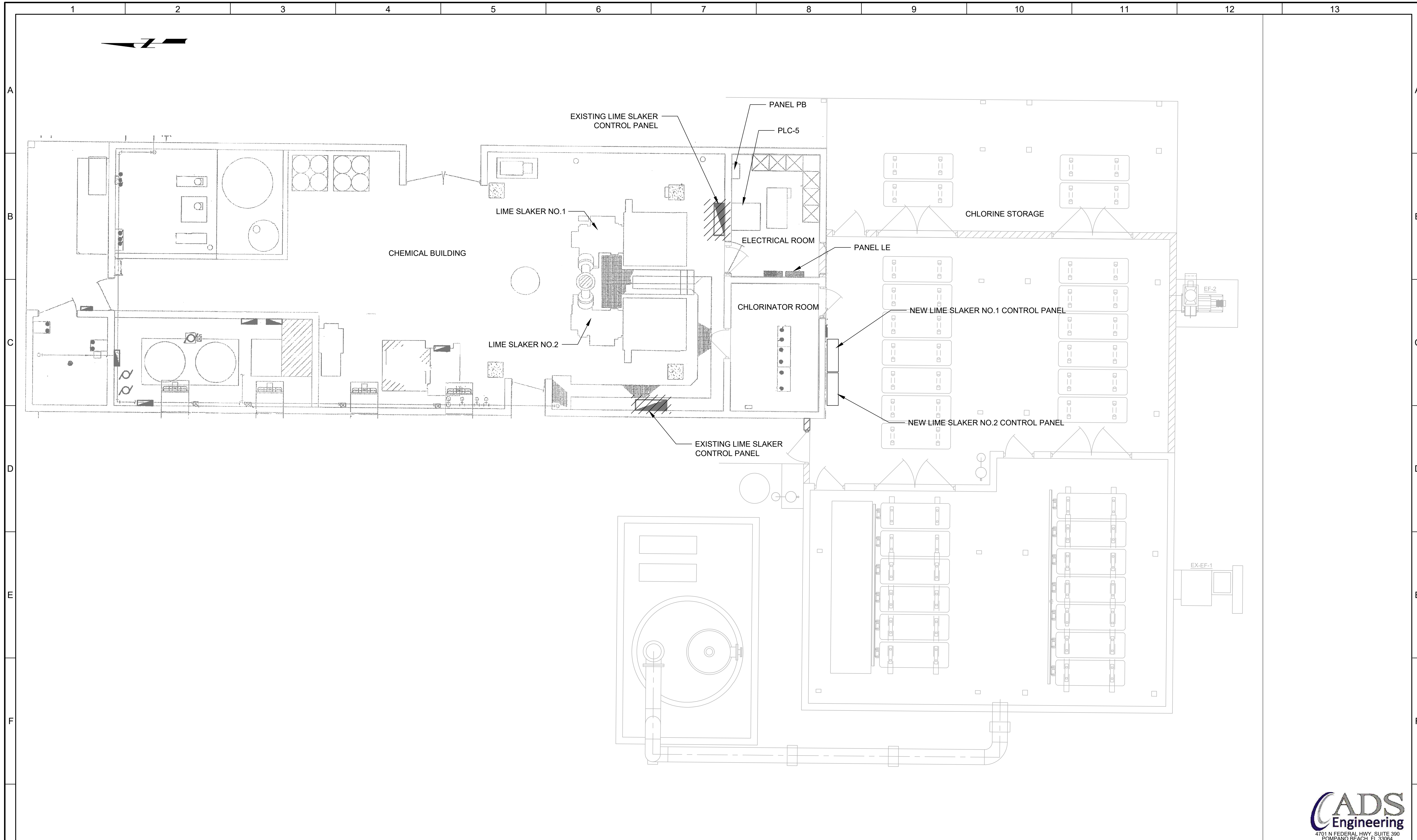


COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT  
ELECTRICAL  
SCRWTP FLOWMETERS LOCATION PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202327
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 00E02
	SHEET NO. 19 OF 25

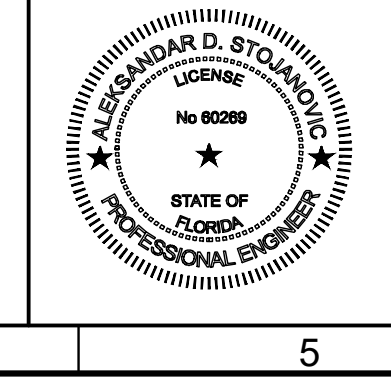






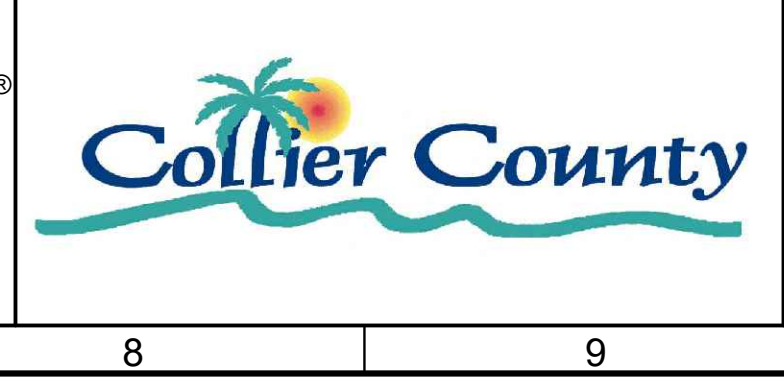
REV	DATE	BY	DESCRIPTION

DESIGNED ADS
DRAWN NDP
CHECKED ADS
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**carollo**  
301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571

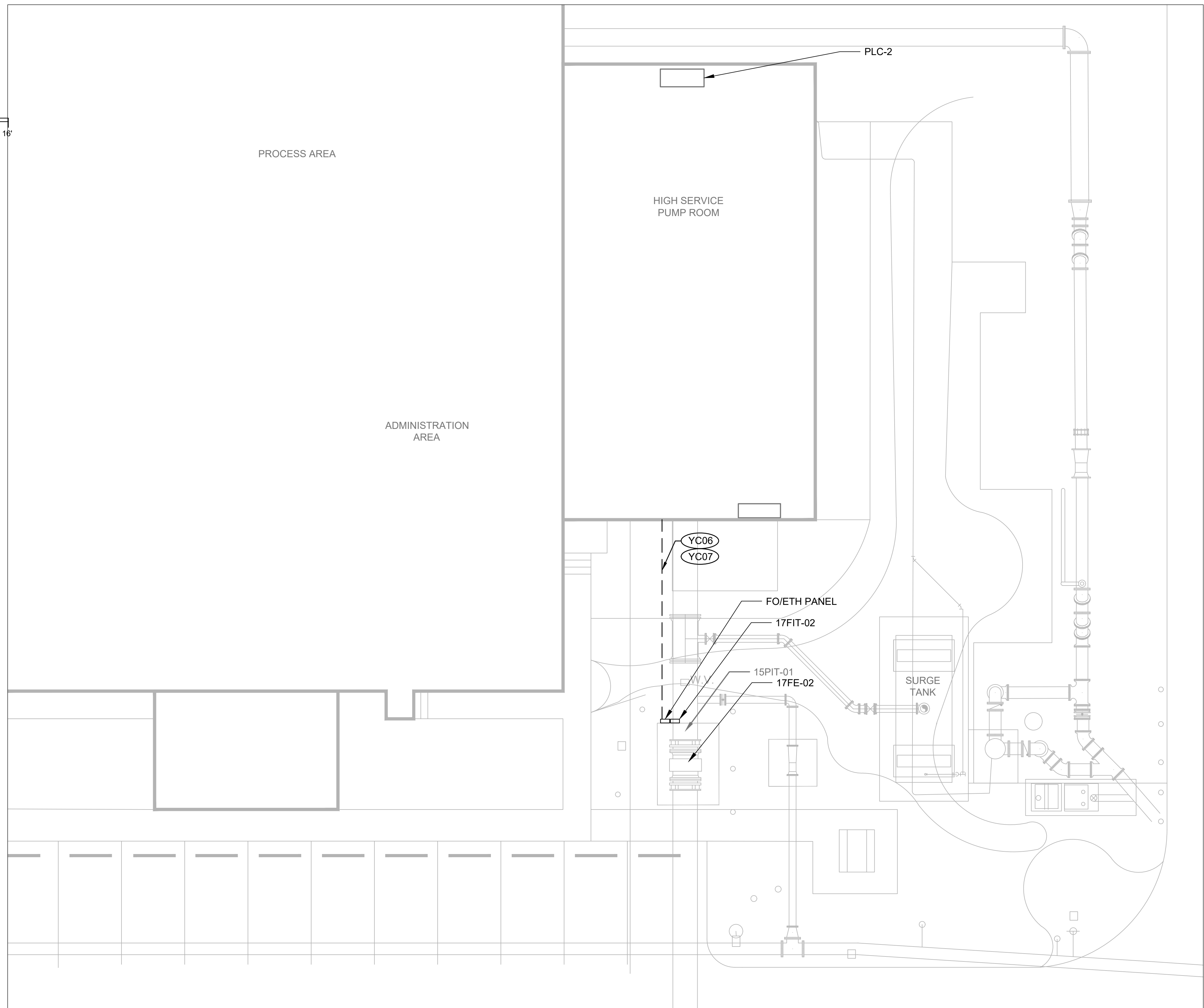
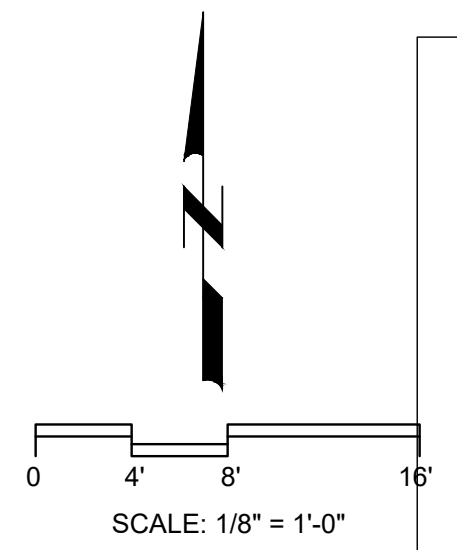


COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT  
ELECTRICAL  
CHEMICAL BUILDING PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. 00E03 SHEET NO. 20 OF 25
--	--



1 2 3 4 5 6 7 8 9 10 11 12 13



**ELECTRICAL NOTES**

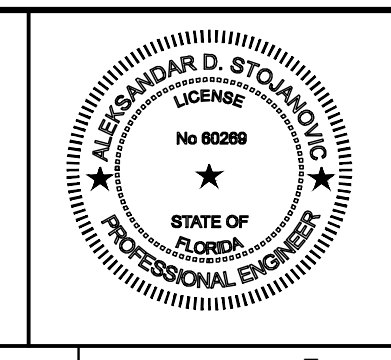
1. YARD CONDUIT ROUTINGS AND EQUIPMENT LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS AND ADJUST ACCORDINGLY. CONCRETE DUCTBANK CROSSING ABOVE THE PIPING SHALL AVOID CROSSING AT THE JOINTS, VALVES, ETC.
2. CONTRACTOR SHALL HAND DIG THE GROUND FOR INSTALLATION OF CONDUITS AND MANHOLES INSIDE THE PLANT, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL KEEP THE SEPARATION BETWEEN POWER AND INSTRUMENTATION YARD CONDUITS AS PER NOTE DRAWING 00GE02 NOTE 22 FOR ALL YARD CONDUIT DUCTBANKS.
4. CONTRACTOR SHALL RESTORE SIDEWALK, WALKWAY, ETC. AFTER THE COMPLETION OF THE PROJECT.



LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION

DESIGNED ADS
DRAWN NDP
CHECKED ADS
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571



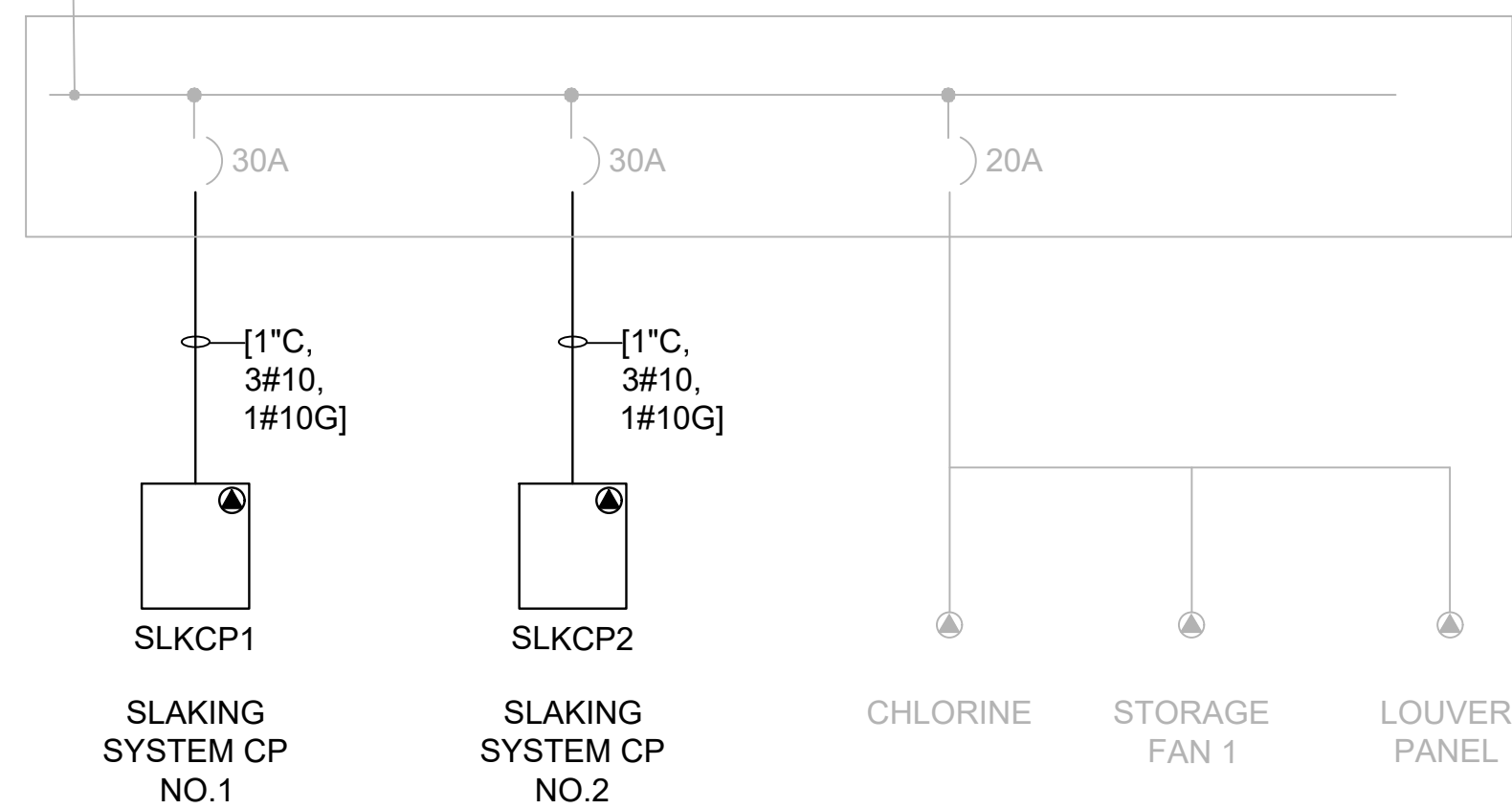
**COLLIER COUNTY**  
**SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT**  
ELECTRICAL  
**NCRWTP SITE PLAN**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. <b>00E04</b> SHEET NO. 21 OF 25
--	---

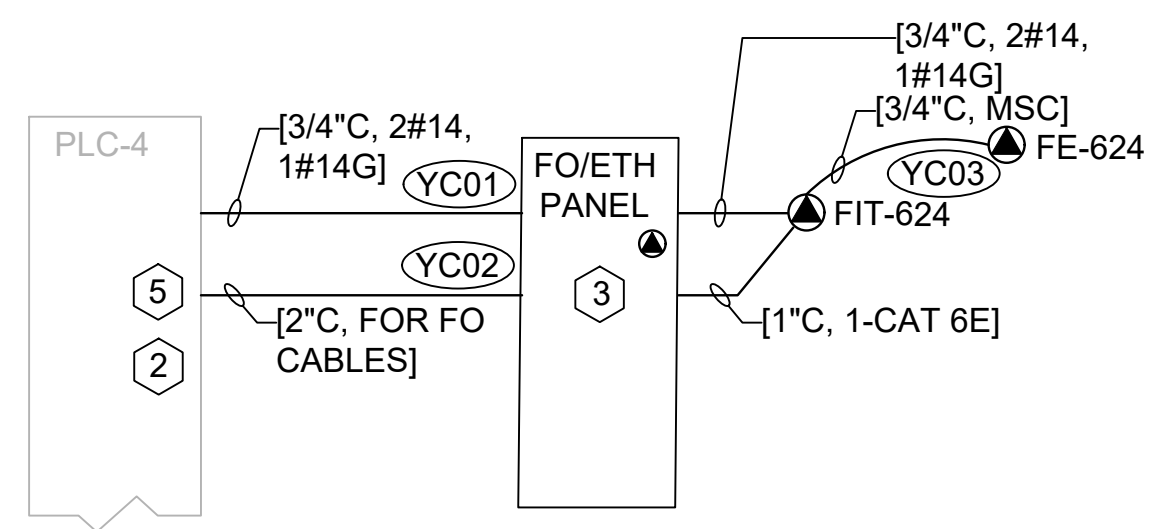
1 2 3 4 5 6 7 8 9 10 11 12 13



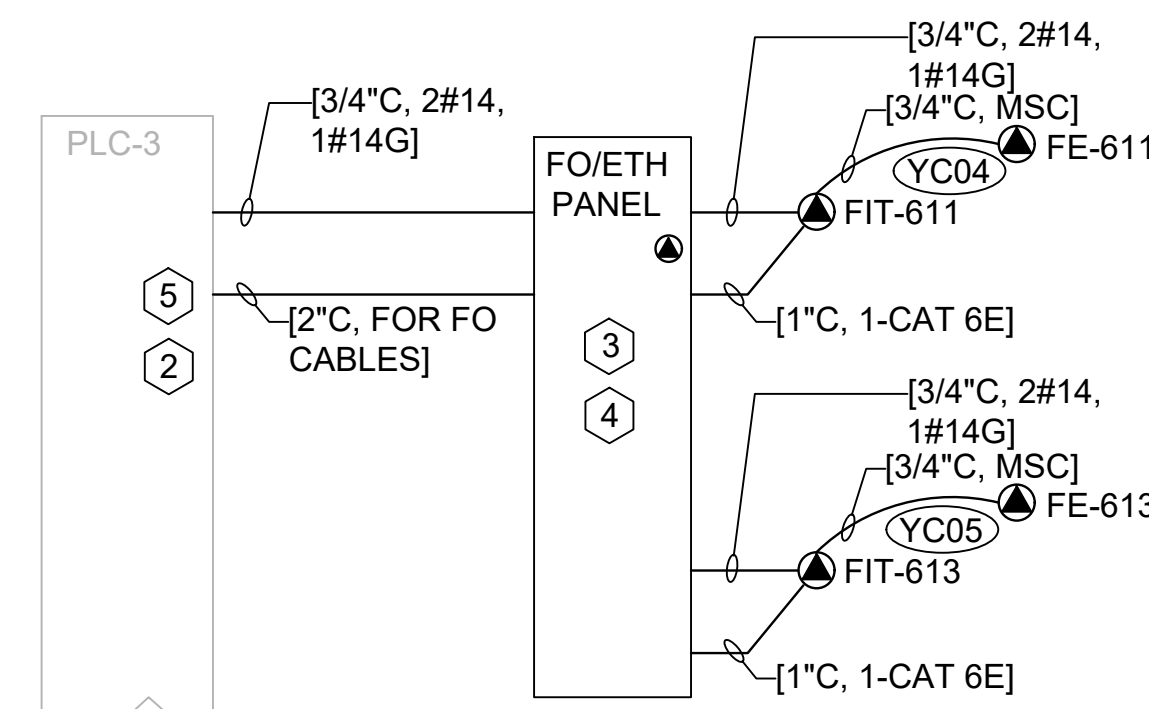
480V, 3PH, 60HZ FROM  
100A BREAKER IN  
PANEL PB CHEM BLDG



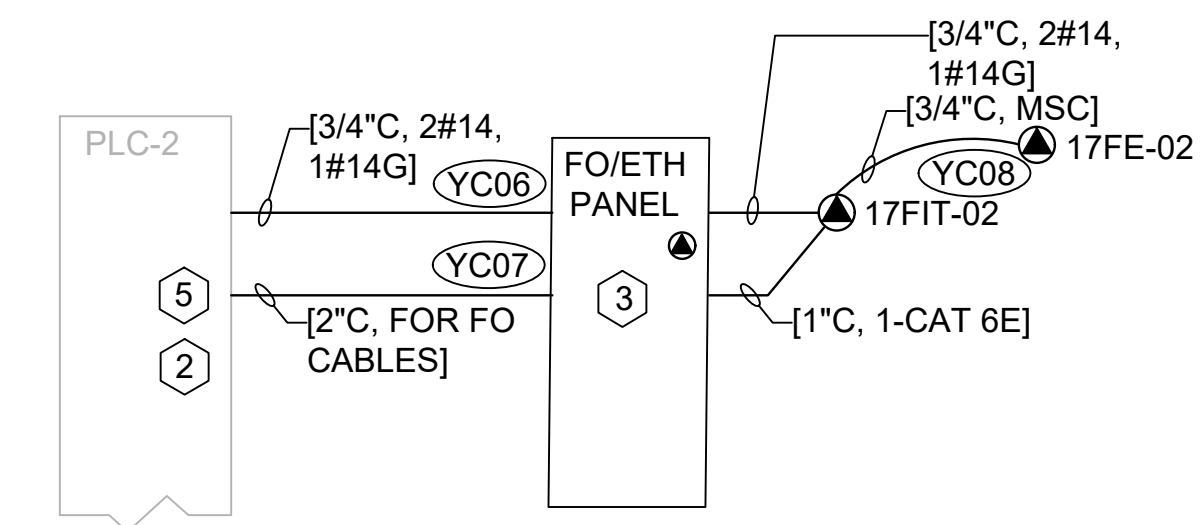
SCRWTP EXISTING PANEL PP POWER RISER DIAGRAM



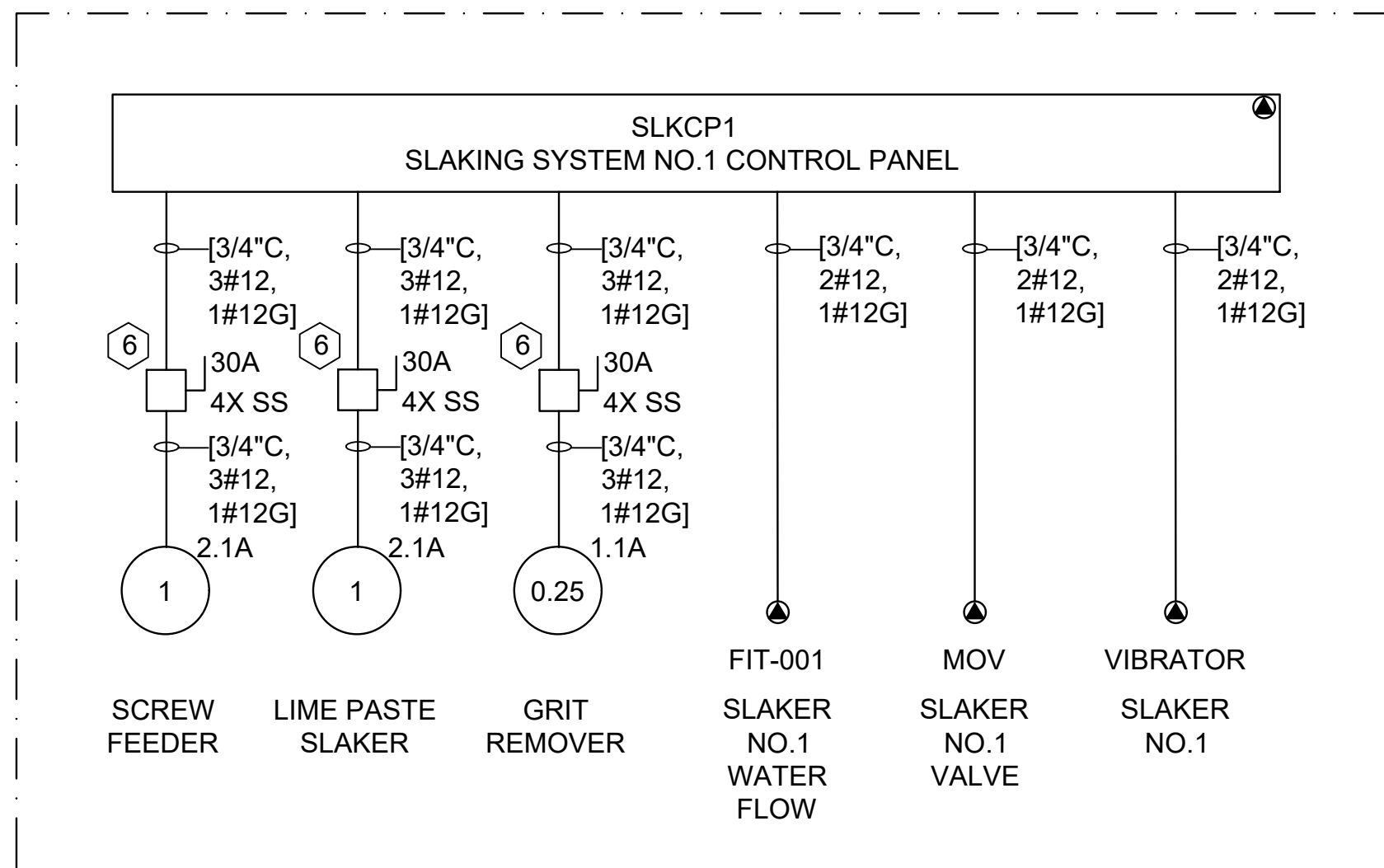
SCRWTP NEW 36" FLOW METER RISER DIAGRAMS



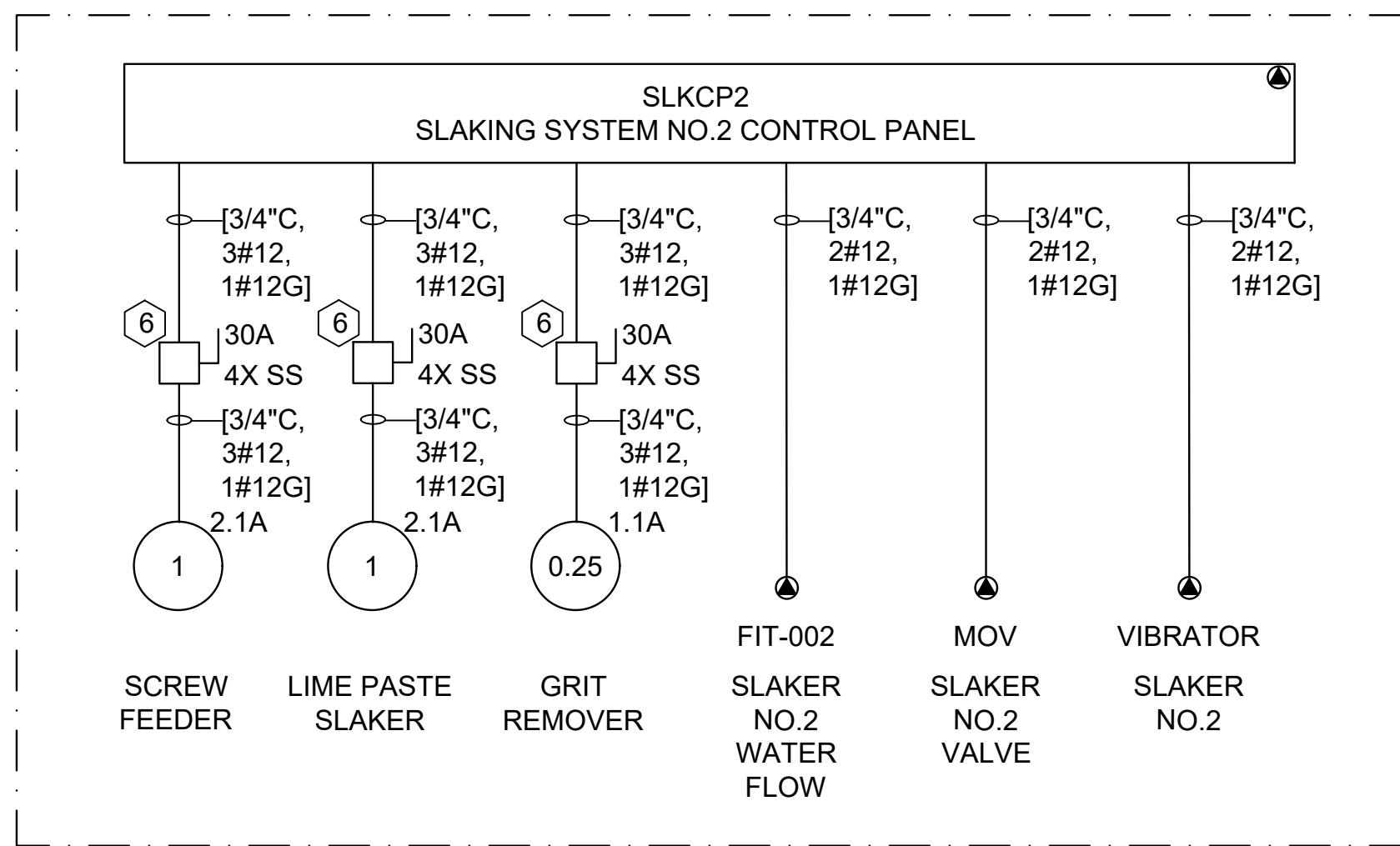
SCRWTP NEW 20" AND 24" FLOW METERS RISER DIAGRAMS



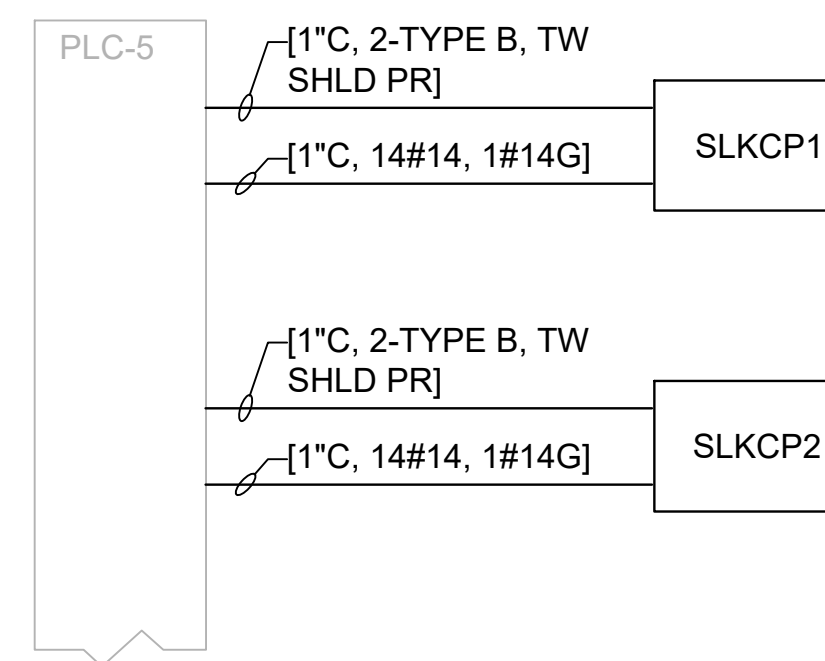
NCRWTP NEW FLOW METER RISER DIAGRAM



SCRWTP LIME SLAKER NO.1



SCRWTP LIME SLAKER NO.2



NCRWTP LIME SLAKERS CONTROL RISER DIAGRAM

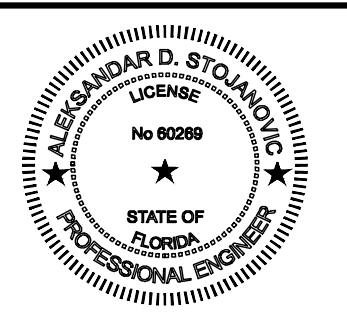
KEYED NOTES:

1. SLAKER EQUIPMENT SHALL BE SUPPLIED BY THE SYSTEM SUPPLIER AND INSTRUMENTS AND SIGNALS MAY DIFFER BASED ON ACTUAL PRODUCTS SUPPLIED.
2. PROVIDE NEW WIRES AND CONDUITS FOR FLOWMETERS. FLOWMETERS ARE 24VDC POWERED FROM PLC CABINET. FIELD INVESTIGATE THE EXISTING PANEL 24V POWER SUPPLY AND PROVIDE NEW 24VDC SUPPLY IF NECESSARY TO ACCOUNT FOR THE POWER CONSUMPTION OF THE FLOWMETERS.
3. AT EACH TRANSMITTER LOCATION FURNISH AND INSTALL NEMA 4X 316SS PANEL WITH FIBER TO COPPER CONVERTER, FUSES FOR CONVERTER AND FLOWMETER TRANSMITTER, POWER DISTRIBUTION TERMINALS AND 24VDC SURGE PROTECTION DEVICE.
4. PROVIDE FIBER TO COPPER CONVERTER WITH MINIMUM TWO (2) COPPER PORTS FOR ETHERNET CONNECTION TO THE FLOWMETER.
5. COORDINATE THE EXACT FIBER TERMINATION LOCATION AT THE EXISTING PLC CABINET WITH THE OWNER.
6. COORDINATE EXACT LOCATION ON THE FIELD WITH THE OTHER DISCIPLINES AND PROVIDED EQUIPMENT ARRANGEMENT. ALL INSTALLATION SHALL BE PER NEC.

LAST SAVED BY: ADS

REV	DATE	BY	DESCRIPTION

BID SET	DESIGNED ADS
	DRAWN NDP
	CHECKED ADS
	DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



COLLIER COUNTY
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT
ELECTRICAL
RISER DIAGRAMS

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 202327
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 00E05
	SHEET NO. 22 OF 25

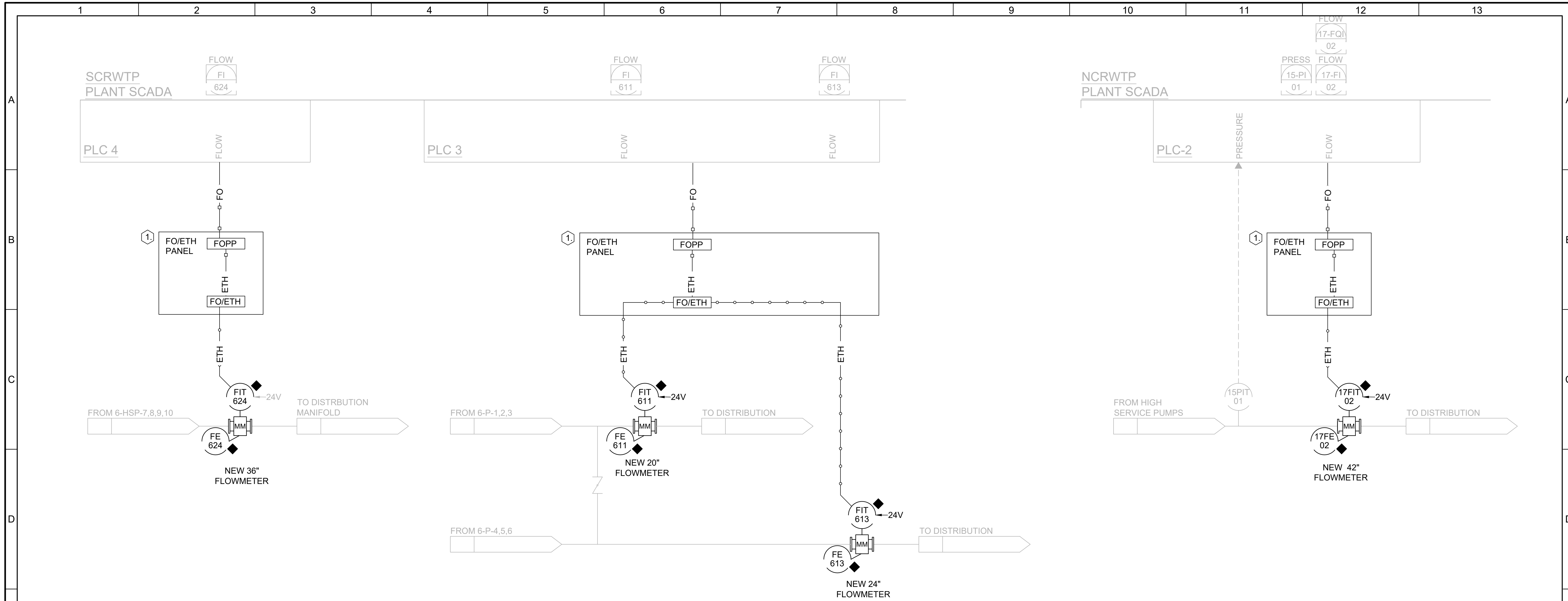




ABBREVIATIONS		VALVE SYMBOLS		GENERAL SYMBOLS		IDENTIFICATION LETTERS					INSTRUMENT IDENTIFICATION									
						FIRST LETTER		SUCCEEDING LETTER												
						MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER										
AI	ANALOG INPUT		GATE VALVE		UNION	A	ANALYSIS		ALARM	USER'S CHOICE	USER'S CHOICE		ALARMS/ACTIONS	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL		UNDEFINED INTERLOCK LOGIC
AO	ANALOG OUTPUT		GLOBE VALVE		DRAIN	B	BURNER, COMBUSTION		USER'S CHOICE											
BOP	BOTTOM OF PIPE		BALL CHECK VALVE		"Y" STRAINER	C	CONDUCTIVITY			CONTROL	(CLOSED)	SHARED DISPLAY, SHARED CONTROL, COMPUTER FUNCTION	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
BOS	BOTTOM OF STEEL		BALL VALVE		"T" STRAINER	D	DENSITY	DIFFERENTIAL												PROGRAMMABLE LOGIC CONTROL
CI	CAST IRON		BUTTERFLY VALVE		FLEXIBLE HOSE	E	VOLTAGE (EMF)		SENSOR (PRIMARY ELEMENT)			PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
CONC	CONCENTRIC		CHECK VALVE		FLANGE	F	FLOW RATE	RATIO (FRACTION)												PROGRAMMABLE LOGIC CONTROL
CS	CARBON STEEL		BACKFLOW PREVENTOR		DIAPHRAGM SEAL	G	GAUGE		GLASS, VIEWING DEVICE			PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
DI	DISCRETE INPUT		FLAPPER VALVE		SLOPE LINE	H	HAND (MANUAL)				HIGH									PROGRAMMABLE LOGIC CONTROL
ECC	ECCENTRIC		DIAPHRAM VALVE		REDUCER (CONCENTRIC)	I	CURRENT (ELECTRICAL)		INDICATE			PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
EL	ELEVATION		NEEDLE VALVE		CENTRIFUGAL PUMP FOOT MOUNTED	J	POWER	SCAN												PROGRAMMABLE LOGIC CONTROL
ETM	ELPASE TIME METER		PINCH VALVE		CENTRIFUGAL PUMP RECEIVER MOUNTED	K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION		PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
FC	FAIL CLOSED		RELIEF VALVE		DIAPHRAGM SEAL	L	LEVEL		LIGHT		LOW									PROGRAMMABLE LOGIC CONTROL
FI	FAIL INDETERMINATE		AIR RELIEF VALVE		SLOPE LINE	M	MOISTURE	MOMENTARY			MIDDLE INTERMEDIATE	PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
FL	FAIL LOCKED		SOLENOID VALVE		MAGNETIC FLOW METER	N	USER'S CHOICE	(NORMALLY)	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE									PROGRAMMABLE LOGIC CONTROL
FLG	FLANGE		ELECTRICAL MOTOR OPERATED VALVE		PADDLE WHEEL FLOW METER	O	USER'S CHOICE		ORIFICE, RESTRICTION		(OPEN)	PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
FO	FAIL OPEN		DIAPHRAM OPERATED VALVE		DOUBLE DIAPHRAGM PUMP (AIR OPERATED)	P	PRESSURE, VACUUM		POINT (TEST) CONNECTION											PROGRAMMABLE LOGIC CONTROL
GPM	GALLONS PER MINUTE		3-WAY SOLENOID VALVE		DOUBLE DIAPHRAGM PUMP (MOTOR OPERATED)	Q	QUANTITY	INTEGRATE, TOTALIZE				PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
HP	HIGH PRESSURE		ROTAMETER		BLOWER OR FAN OR SUMP PUMP	R	RADIATION		RECORD											PROGRAMMABLE LOGIC CONTROL
LC	LOCKED CLOSED		PRESSURE REDUCING VALVE (SELF CONTAINED)		COMPRESSOR	S	SPEED, FREQUENCY	SAFETY		SWITCH		PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
LO	LOCKED OPEN		PISTON OPERATED VALVE (PNEUMATIC)		VACUUM BREAKER	T	TEMPERATURE			TRANSMIT										PROGRAMMABLE LOGIC CONTROL
LOS	LOCK OUT/STOP		PNEUMATIC VALVE		ADJUSTABLE SPEED CONTROL (ELECTRIC)	U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION	PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
LLL	LOW PRESSURE CONDENSATE		QUICK COUPLING HOSE CONNECTION		VARIABLE SPEED DRIVE (MECHANICAL)	V	VIBRATION, MECHANICAL ANALYSIS		VALVE, DAMPER, LOUVER											PROGRAMMABLE LOGIC CONTROL
LP	LOW PRESSURE		EXPANSION VALVE		VARIABLE FREQUENCY DRIVE	W	WEIGHT, FORCE		WELL	UNCLASSIFIED		PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
LT	LOW TEMPERATURE		FLOAT VALVE		REDUCER/MOTOR DRIVE UNIT	X	UNCLASSIFIED	X AXIS	UNCLASSIFIED		UNCLASSIFIED									PROGRAMMABLE LOGIC CONTROL
MAX	MAX		BACK PRESSURE SUSTAINING VALVE		THERMAL DISPERSION FLOW METER	Y	EVENT, STATE, OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT		PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
MCC	MOTOR CONTROL CENTER		PLUG VALVE		VENTURI FLOW METER	Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT										PROGRAMMABLE LOGIC CONTROL
MIN	MINIMUM											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
MW	MAINWAY																			PROGRAMMABLE LOGIC CONTROL
NC	NORMALLY CLOSED											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
NLL	NORMAL LIQUID LEVEL																			PROGRAMMABLE LOGIC CONTROL
NO	NORMALLY OPEN											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
ORIF	ORIFICE																			PROGRAMMABLE LOGIC CONTROL
PE	PRESSURE END											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
RED	REDUCER																			PROGRAMMABLE LOGIC CONTROL
SC	SAMPLE CONNECTION											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
SCH	SCHEDULE																			PROGRAMMABLE LOGIC CONTROL
SD	SHUTDOWN											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
SP	SAMPLE POINT																			PROGRAMMABLE LOGIC CONTROL
SS	STAINLESS STEEL											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
STD	STANDARD																			PROGRAMMABLE LOGIC CONTROL
TOP	TOP OF PIPE											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
TOS	TOP OF STEEL																			PROGRAMMABLE LOGIC CONTROL
TYP	TYPICAL											PROGRAMMABLE LOGIC CONTROL	FIELD MOUNTED	PRIMARY LOCATION FIELD PANEL MOUNTED	PRIMARY LOCATION INACCESSIBLE OR BEHIND PANEL	AUXILIARY LOCATION MAIN CONTROL ROOM	AUXILIARY LOCATION INACCESSIBLE OR BEHIND PANEL			
TIP	TIE IN POINT																			PROGRAMMABLE LOGIC CONTROL

LAST SAVED BY: ADS	<b>BID SET</b>	DESIGNED ADS		DRAWN NDP			<b>COLLIER COUNTY</b>	VERIFY SCALES JOB NO. 202327
		CHECKED ADS		DATE MARCH 2024	THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	301 NORTH CATTLEMAN ROAD, SUITE 302 SARASOTA, FL 34232 PHONE (941) 371-9832 FAX: (941) 371-9873 CA00008571	<b>SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT</b>	DRAWING NO. <b>00GN01</b>
REV	DATE	BY	DESCRIPTION				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 23 OF 25





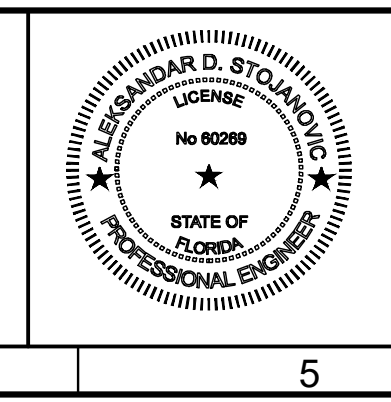
**KEYED NOTES:**

1. PROVIDE FIBER TO COPPER TERMINATION PANEL WITH FIBER OPTIC PATCH PANEL AND FIBER TO COPPER CONVERTER. PROVIDE ENOUGH FIBER PORTS AND COPPER PORTS AS NEEDED FOR INSTALLATION LOCATION. ALL EQUIPMENT SHALL BE INSTALLED IN NEMA 4X 316SS ENCLOSURE.

LAST SAVED BY: ADS

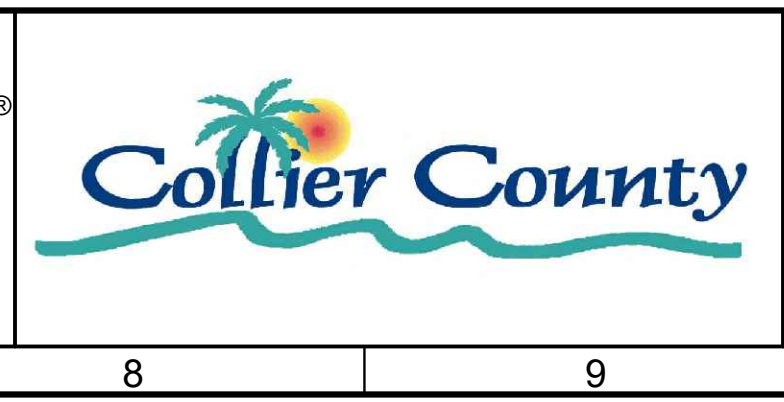
REV	DATE	BY	DESCRIPTION

DESIGNED ADS
DRAWN NDP
CHECKED ADS
DATE MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571



COLLIER COUNTY  
SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT  
INSTRUMENTATION  
FLOWMETERS P&ID

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 202327 DRAWING NO. 00N01 SHEET NO. 24 OF 25
--	--

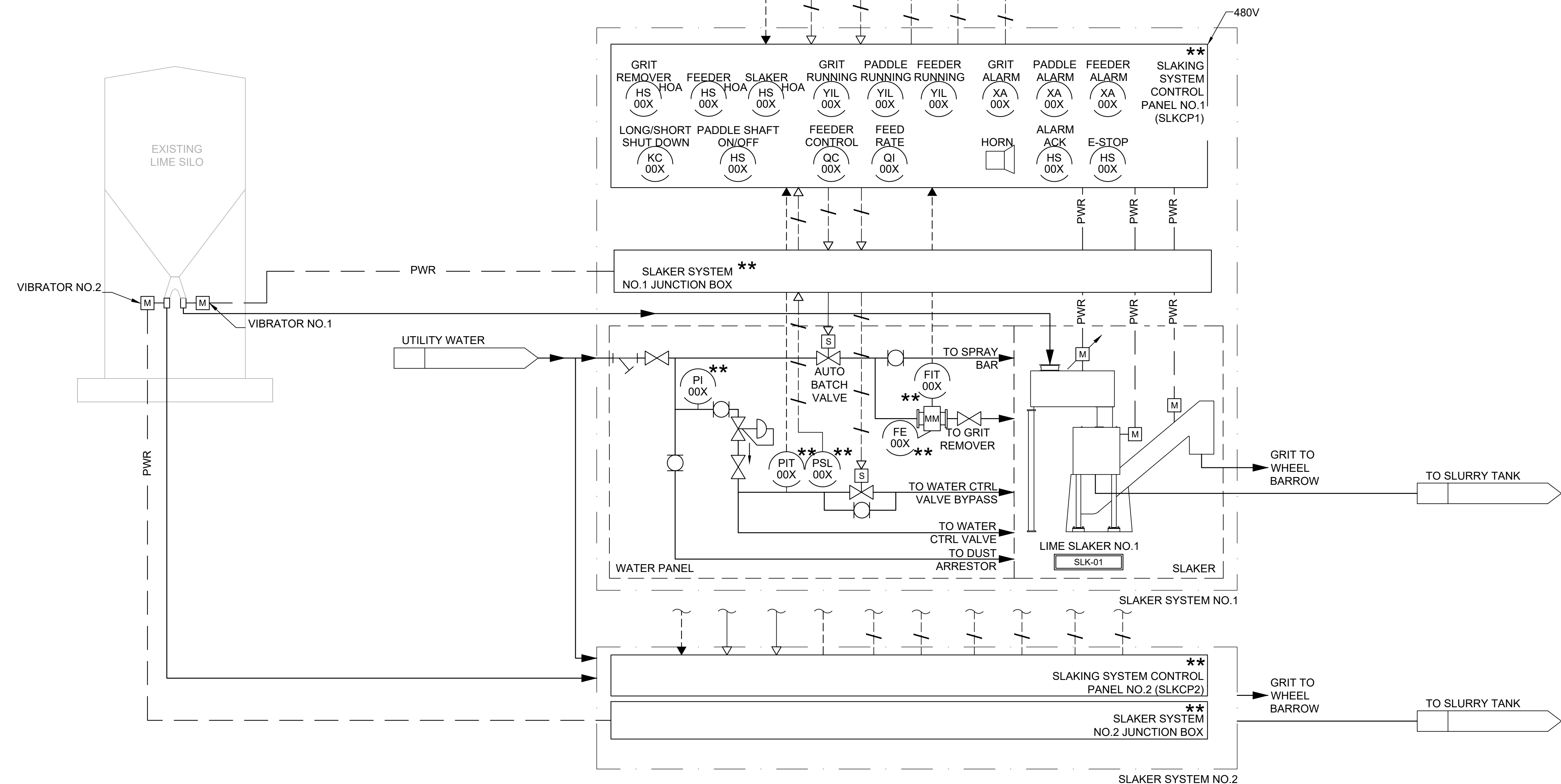
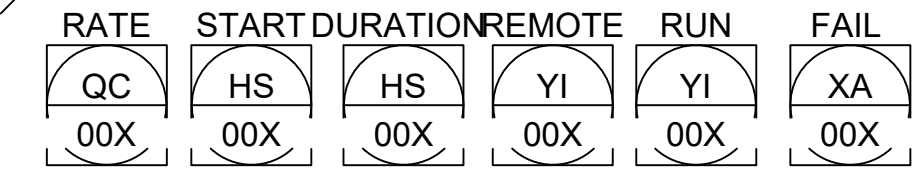




SCRWTP  
PLANT SCADA

PLC 5

TYPICAL OF TWO LIME SLAKER SYSTEMS X=1,2



LAST SAVED BY: ADS

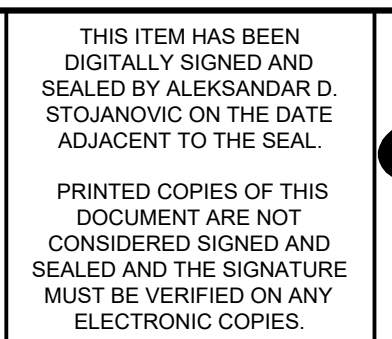
REV			DATE	BY	DESCRIPTION
1					
2					
3					

DESIGNED	ADS
DRAWN	NDP
CHECKED	ADS
DATE	MARCH 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEKSANDAR D. STOJANOVIC ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



**Carollo**

301 NORTH CATTLEMEN ROAD, SUITE 302  
SARASOTA, FL 34232  
PHONE (941) 371-9832 FAX: (941) 371-9873  
CA00008571



COLLIER COUNTY

SCRWTP LIME SLAKER AND FLOWMETER REPLACEMENT

INSTRUMENTATION

LIME SLAKING SYSTEM P&ID

VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	202327
0 1"	DRAWING NO.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	00N02
	SHEET NO.
	25 OF 25

