

COLLIER COUNTY
WATER-SEWER DISTRICT
SOUTH COUNTY WATER RECLAMATION FACILITY
PRELIMINARY TREATMENT SCREEN REPLACEMENT



Collier County

BOARD OF COUNTY COMMISSIONERS

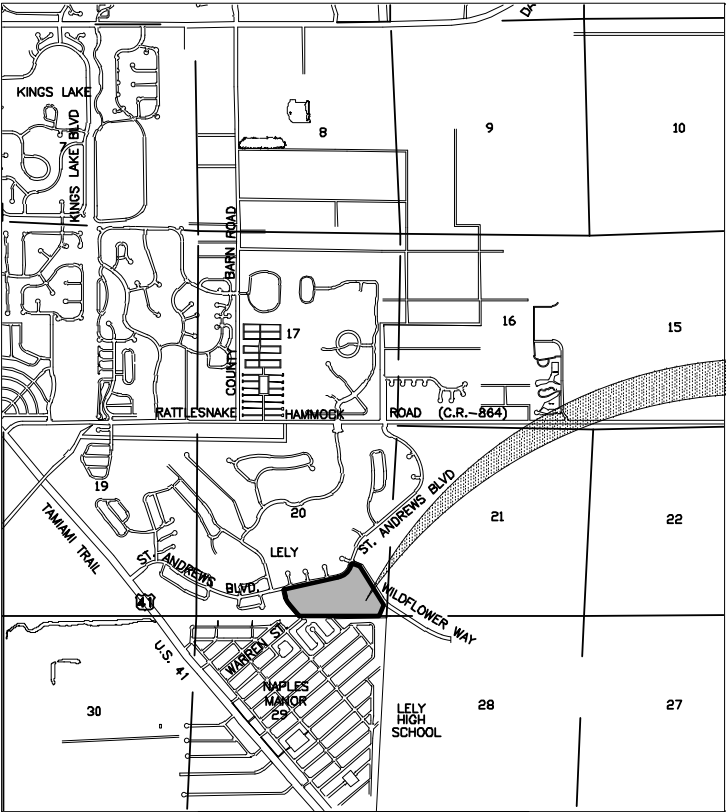
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CHRIS HALL	DISTRICT 2
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WILLIAM L. MC DANIEL, JR	DISTRICT 5

COUNTY MANAGER

AMY PATTERSON

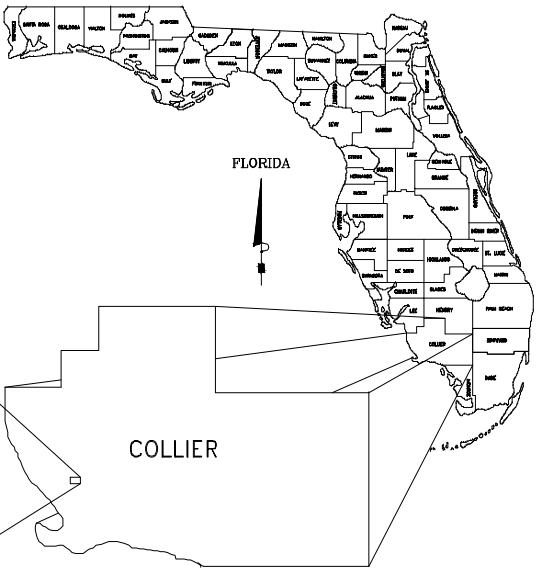
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WAYNE KARLOVICH, PE	SUPERVISOR-PROJECT MANAGEMENT OF SUBREGIONAL UTILITIES



SITE LOCATION MAP
N.T.S.

SCWRF
PROJECT
LOCATION
5600 WARREN STREET
NAPLES, FL 34113



Bowman
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

950 ENCORE WAY
NAPLES, FL. 34110
PHONE: 239.254.2000

ISSUED FOR BIDDING
MAY, 2025

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SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
COVER SHEET
5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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JARED M. MELLEIN, P.E.
FL. LICENSE NO. 89872
05/02/2025

DATE	DESCRIPTION	REV	DATE	DESCRIPTION

JM DESIGN	RV DRAWN	JM CHKD
SCALE		
JOB No. 340793-01-001		
CAD File 340793_CV		
DATE 05/02/2025		
COVER SHEET		
SHEET	G-1	

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DWG TO PDF p03

- A. Prior to commencing any demolition of the influent screens, panels, isolation gates and appurtenances, the Contractor shall obtain written approval from the County Project Manager and have an approved plan submitted and approved in accordance with specifications Section 01160.
- B. The Contractor shall remove, and dispose of all demolished items as shown and specified on the Contract Documents.
- C. Remove all anchor bolts associated with equipment that is being removed to a depth of at least $\frac{1}{2}$ " below the surface of existing concrete and patched with SIK-123C or equal prior to applying new coatings. All new equipment shall utilize all new 316 stainless steel bolts, washers, and nuts.
- D. See Specification Section 01110 for additional information and requirements.
- E. It is the Contractor responsibility to use non-destructive methods (radar, x-ray, etc.) to locate embedded conduit in concrete prior to demolition, saw cutting or core drilling. Relocate and reconstruct affected per electrical specifications.

- ### SPECIAL PROJECT REQUIREMENTS (BYPASS)

- ## COATING EXPOSED PIPING AND METAL SURFACES

- ## PUBLIC UTILITIES DIVISION 5N—RELIABILITY ENGINEERING & OPERATIONS REQUIREMENTS

- Bowman**

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SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT

GENERAL NOTES

5600 WARREN STREET, NAPLES, FL, 34113

COLLIER COUNTY

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△				
△				
△				
△				

SCALE

J.M. DESIGN

R.V. DRAWN

N.D. CHKD

JOB No. 340.793-01-001

CAD File 340793_CV

DATE 05/02/2025

GENERAL NOTES

SHEET

G-3

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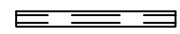
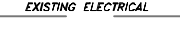
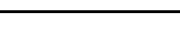
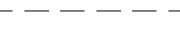
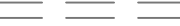
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SEQUENCE OF WORK

The following Sequence of Work has been prepared for the proposed project. The Bidder/Contractor shall review the sequence and may propose additions or changes in the sequence. A full schedule of work shall be prepared by the Contractor and submitted for review and approval prior to any work at the site. NOTE: This sequence is based on work starting at Influent Screen No. 1; however, this may be changed to allow initial work starting Influent Screen No. 2.

- A. Issuance of overall Notice to Proceed.
- B. Preconstruction meeting and preconstruction submittals.
- C. Field verification of all measurements for the proposed influent screens, including channel width for new gates, channel wall widths, and required proposed aluminum channel cover modifications.
- D. Issuance of Notice to Proceed on Screen replacement work.
- E. Coordination with SCWRF Plant Manager and County Project Manager or their designee for shutdown of influent screens.
- F. A written plan shall be submitted detailing the schedule and methodology for taking all channels and equipment out of service to perform the work in accordance with specification Section 01140 is required to be submitted by the contractor and approved by the County and the Engineer in advance of performing the work.
- G. The Contractor shall provide a minimum of 72 hours advance notice before requesting approval to remove a channel from service.
- H. The Contractor shall provide all needed bulkheads and dewatering equipment to take channels out of service and install stop logs, replace gates, and install influent screens shown on plans.
- I. The Contractor shall have all equipment and materials onsite and available for installation prior to taking a channel offline so that downtime of the channel can be minimized.
- J. Coating and concrete repair work to be performed 'by others'. Coordination between Contractors shall be made prior to any channel shutdown/bypass work. All channel coating rehabilitation work shall be completed, inspected and approved by the Owner prior to installing the influent screens. Manual bar screen to be removed for channel coating/concrete repair work and reinstalled when coating/repair work is completed.
- K. All gates and screening system equipment associated with the first channel shall be fully completed, tested and found to be fully functioning for a minimum of 5 days before the second channel can be approved for removal from service.
- L. Isolation of each screen shall be accomplished through routing of flow to existing Parkson Screen and bypass channel as well as existing manual screen and bypass channel.
- M. One screen shall be taken out of service, demolished, tested, and put into service at a time.
- N. Demolition of existing Influent Screen including anchor bolts removal and patching in the channels. See demolition notes on sheet G-3 regarding anchor bolt demolition and replacement work requirements.
- O. Installation of new screen system, including wash press and sluice, drop chute, anchor bolts, supports, piping, etc.
- P. Installation of new gates, actuators, level sensors, aluminum decking, electrical control panels, conduit, etc.
- Q. Introduction of wastewater to Influent Screen No.1.
- R. Notice to Proceed on Influent Screen No.2 work. Sequence of work will be similar to that on Influent Screen No.1.
- S. Removal and replacement of existing gates shall be coordinated with isolations needed for replacement of Influent Screens No. 1 & 2.
- T. Upon startup of both Influent Screens and gates, a final completion walk through will be completed. NOTE: Individual substantial completion walkthroughs for individual gates and screens will be completed at various stages.

LEGEND

	FIRE HYDRANT ASSEMBLY		CASING PIPE
	WATER VALVE		WATER MAIN
	WATER METER		FORCE MAIN
	BLOW OFF		STORM DRAIN
	AIR RELEASE VALVE		BURIED TELEPHONE CABLE
	REDUCER		BURIED ELECTRIC CABLE
	22 1/2" BEND		BURIED TELEVISION CABLE
	45° BEND		FENCE
	90° BEND		EDGE OF PAVEMENT
	TEE		FACE OF/BACK OF CURB
	CROSS		RIGHT OF WAY
	PLUG		EASEMENT
	MITERED END SECTION		SIDEWALK

ABBREVIATIONS:

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	INV	INVERT
APT	APARTMENT	L	LEFT OF CENTERLINE
ARV	AIR RELEASE VALVE	LF	LINEAR FEET
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LANE	LANE
AVE	AVENUE	MAX	MAXIMUM
AWWA	AMERICAN WATER WORKS ASSOCIATION	MH	MANHOLE
BE	BURIED ELECTRIC	MIN	MINIMUM
BLVD	BOULEVARD	MJ	MECHANICAL JOINT
B/L	BASE LINE	NO.	NUMBER
BM	BENCH MARK	NTS	NOT TO SCALE
BT	BURIED TELEPHONE	OBG	OPTIONAL BASE GROUP
BV	BUTTERFLY VALVE	OC/EW	ON CENTER EACH WAY
CA	ASBESTOS CEMENT	PGL	PROFILE GRADE LINE
CC	CENTER TO CENTER	PL	PLACE
CI	CAST IRON	PPW	POWER POLE WOOD
CL	CLASS/CENTERLINE	PPC	POWER POLE CONCRETE
CLY	CLAY	PROP	PROPOSED
CO	CLEANOUT	PSI	PER SQUARE INCH
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CORP.	CORPORATION	PVMT	PAVEMENT
CP	CONTROL PANEL	R	RIGHT OF CENTERLINE
CT	COURT	RCP	REINFORCED CONCRETE PIPE
CTS	COPPER TUBE SIZE	RD	ROAD
D.I.P.	DUCTILE IRON PIPE	RED.	REDUCER
DIA	DIAMETER	REQD	REQUIRED
DR	DRIVE/DIMENSION RATIO	RMJ	RESTRAINED MECHANICAL JOINT
ESMT	EASEMENT	RW/R.O.W.	RIGHT OF WAY
ELEV	ELEVATION	SCH	SCHEDULE
EOP	EDGE OF PAVEMENT	SCO	SEWER CLEANOUT
EX	EXISTING	SDR	STANDARD DIMENSION RATIO
FFE	FINISH FLOOR ELEVATION	SMH	SANITARY MANHOLE
FM	FORCE MAIN	SS	SANITARY SEWER/STAINLESS STEEL
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	ST	STREET
FT	FEET	STA	STATION
FLG	FLANGED PIPE FITTING	SW	SOLVENT WELD
FO	FIBER OPTIC	SW	SIDEWALK
GALV	GALVANIZED	TYP	TYPICAL
GV	GATE VALVE	UE	UNDERGROUND ELECTRIC
HDPE	HIGH-DENSITY POLYETHYLENE	VCP	VITRIFIED CLAY PIPE
WAP	WASH AND PRESS	WM	WATER METER/WATER MAIN

SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT

GENERAL NOTES

5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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JARED M. MELLEIN, P.E.
FL. LICENSE NO. 89872
05/02/2025

DATE	DESCRIPTION	REV
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J.M. DESIGN	R.V. DRAWN	N.D. CHKD
SCALE		
JOB No. 340793-01-001		
CAD File 340793_CV		
DATE 05/02/2025		
GENERAL NOTES		
G-4		
SHEET		

RECLAIMED
WATER
STORAGE
TANK

ELECTRICAL BUILDING

POND

AERATION BASINS

PROJECT LOCATION

FLOW
EQUALIZATION
TANK 2

FLOW
EQUALIZATION
TANK 1

NOTE: CONTRACTOR TO
COORDINATE LOCATION OF
CONSTRUCTION PARKING AND
MOBILIZATION AREA WITH
COUNTY PROJECT MANAGER.



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SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT

PROJECT LOCATION

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DATE		DESCRIPTION	
J.M. DESIGN	R.V. DRAWN	N.D. CHKD	
SCALE		NTS	

JOB No.	340793-01-00
CAD File	340793_SitePlan
DATE	05/02/2025

PROJECT LOCATION	
SHEET	G-6

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COLLIER COUNTY

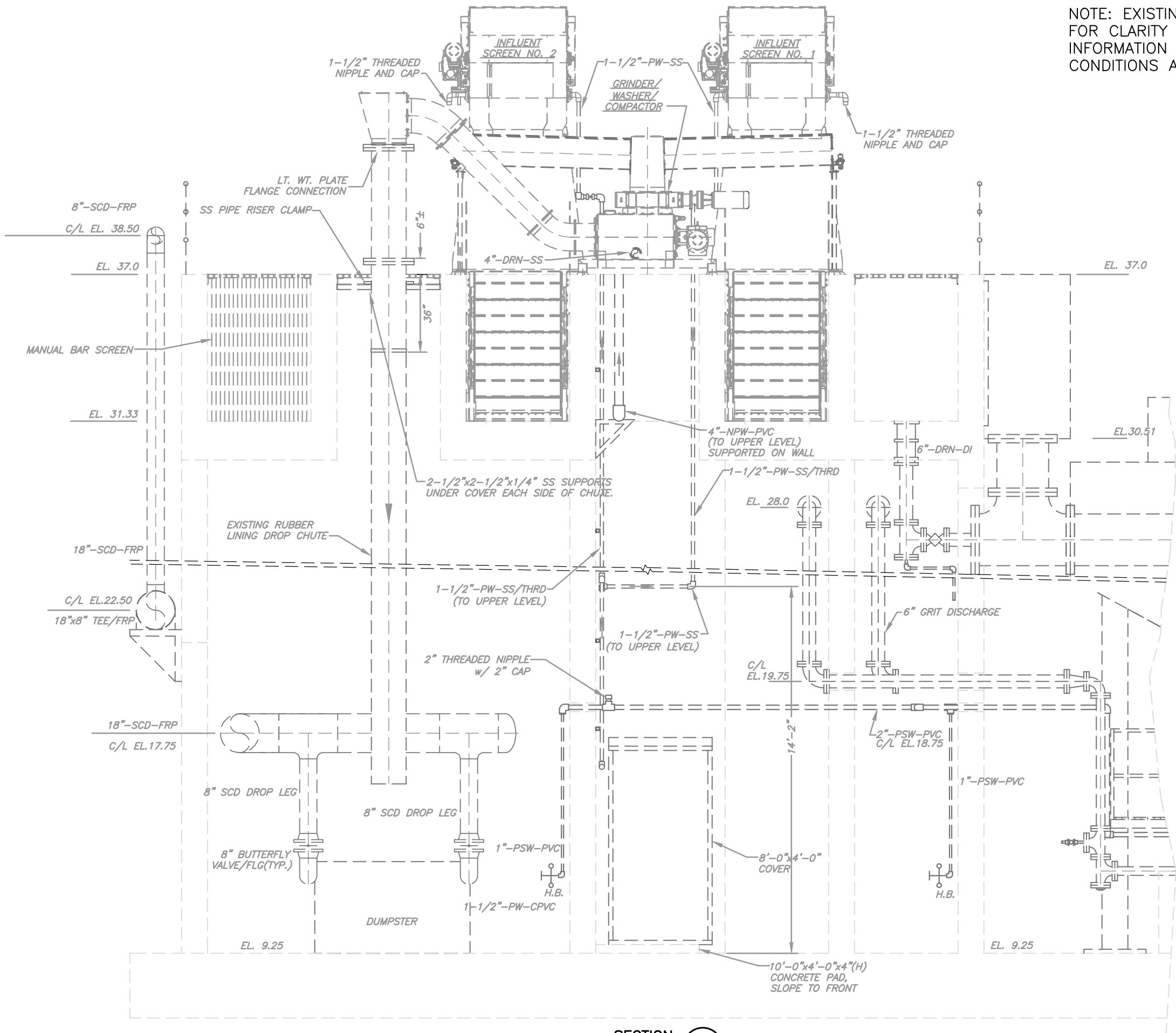
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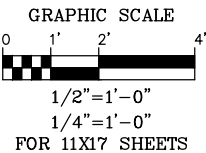
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CONDITIONS AT THE PLANT.

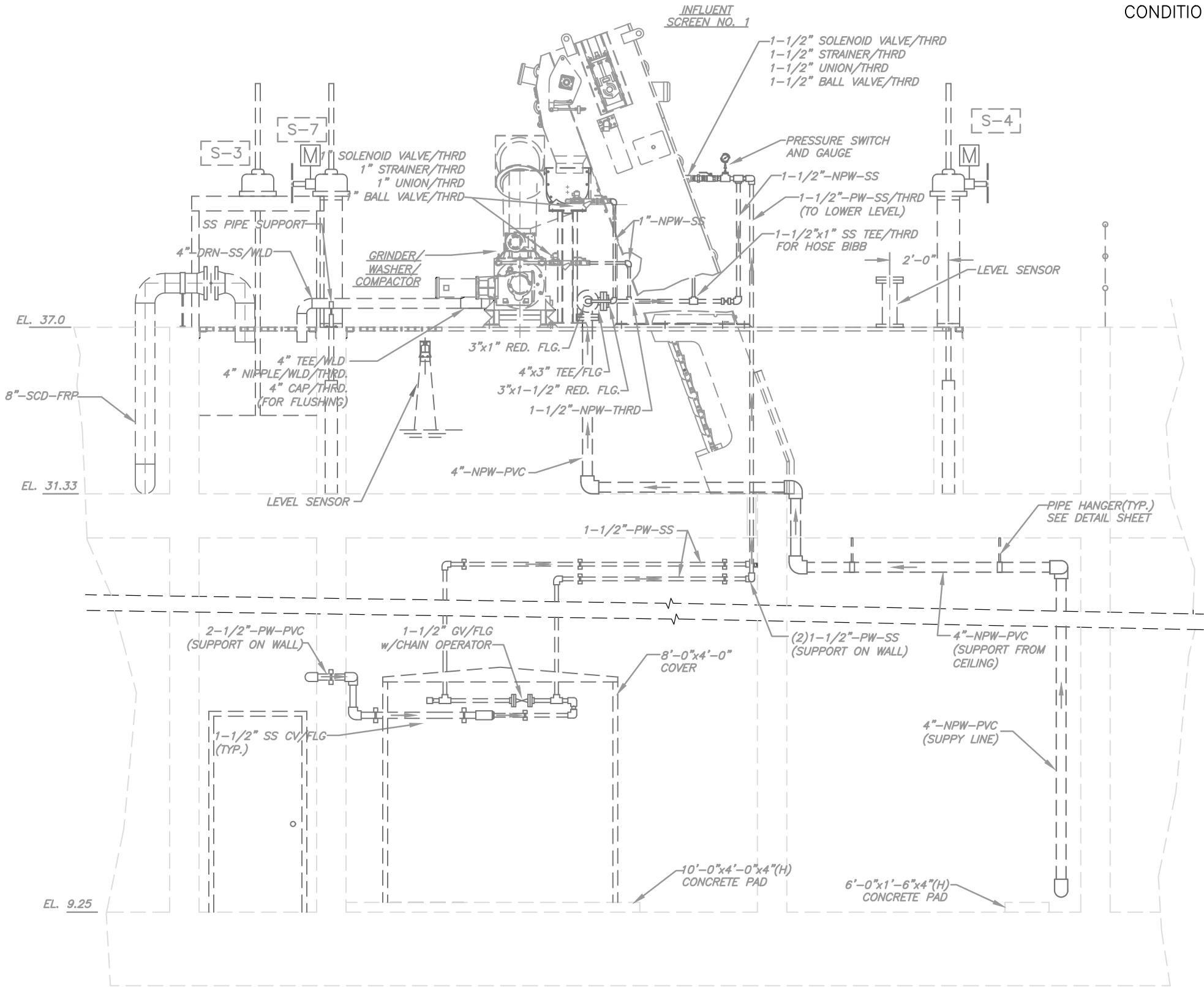


SECTION A
M-1
1/2" = 1'-0"

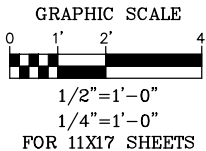


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SECTION B
1/2" = 1'-0" M-1



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EXISTING SECTION B-B
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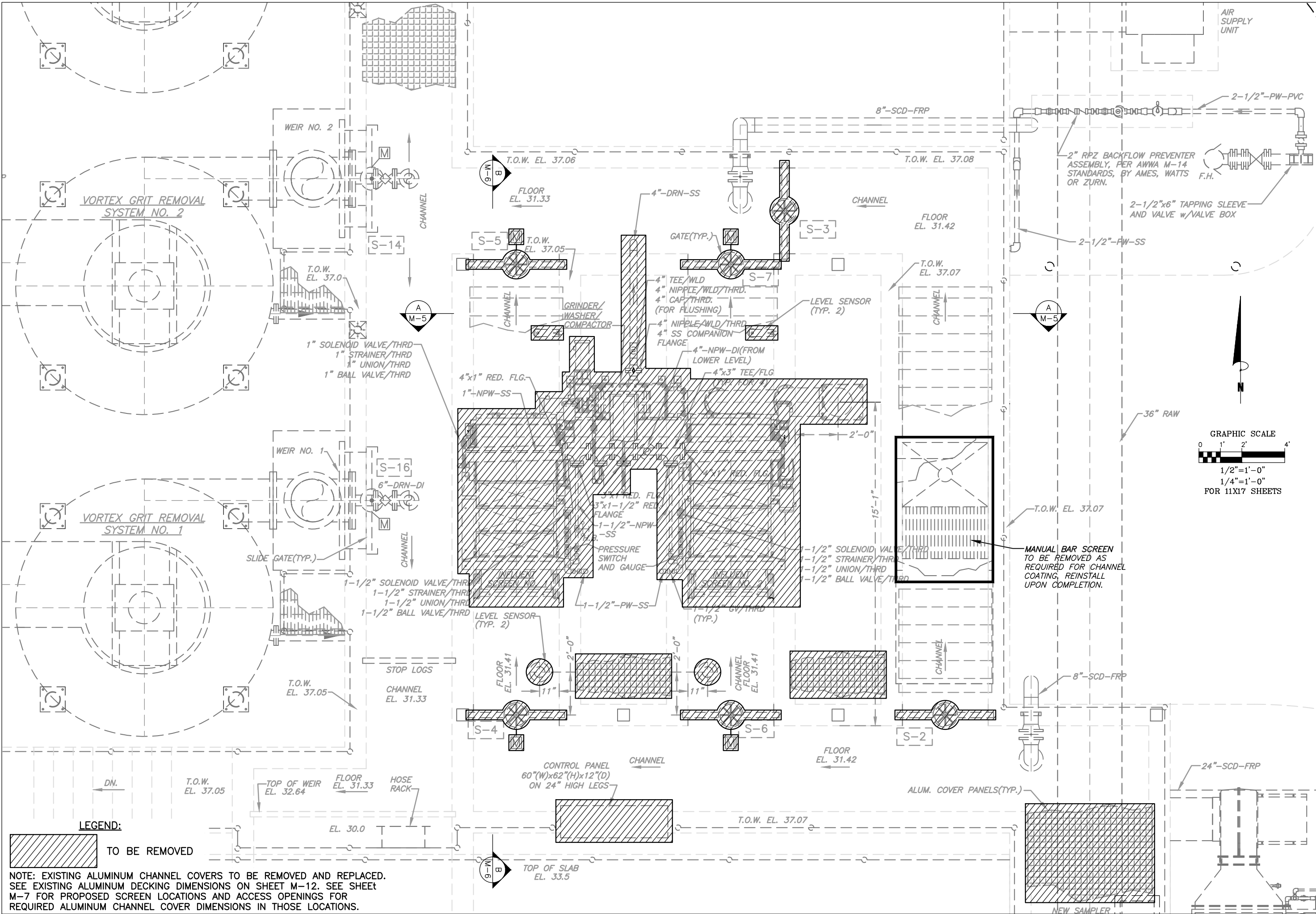
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J.M. DESIGN	R.V. DRAWN	N.D. CHKD
SCALE 1/2"=1'-0"		
JOB No. 340793-01-001		
CAD File 340793_Plans		
DATE 05/02/2025		
EXISTING SECTION B-B		
SHEET	M-3	

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DATE: 05/02/2025, 09:11 AM, USER: JAMES BOWMAN, PROJECT: 340793-01-001 SCWRF PRELIMINARY TREATMENT SCREEN REPLACEMENT, DRAWING: M-4 DEMO PLAN, 5/2/2025

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SCALE 1/2"=1'-0"				
JOB No. 340793-01-001				
CAD File 340793_Plans				
DATE 05/02/2025				
DEMOLITION UPPER PLAN				
SHEET				

SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
DEMOLITION UPPER PLAN
5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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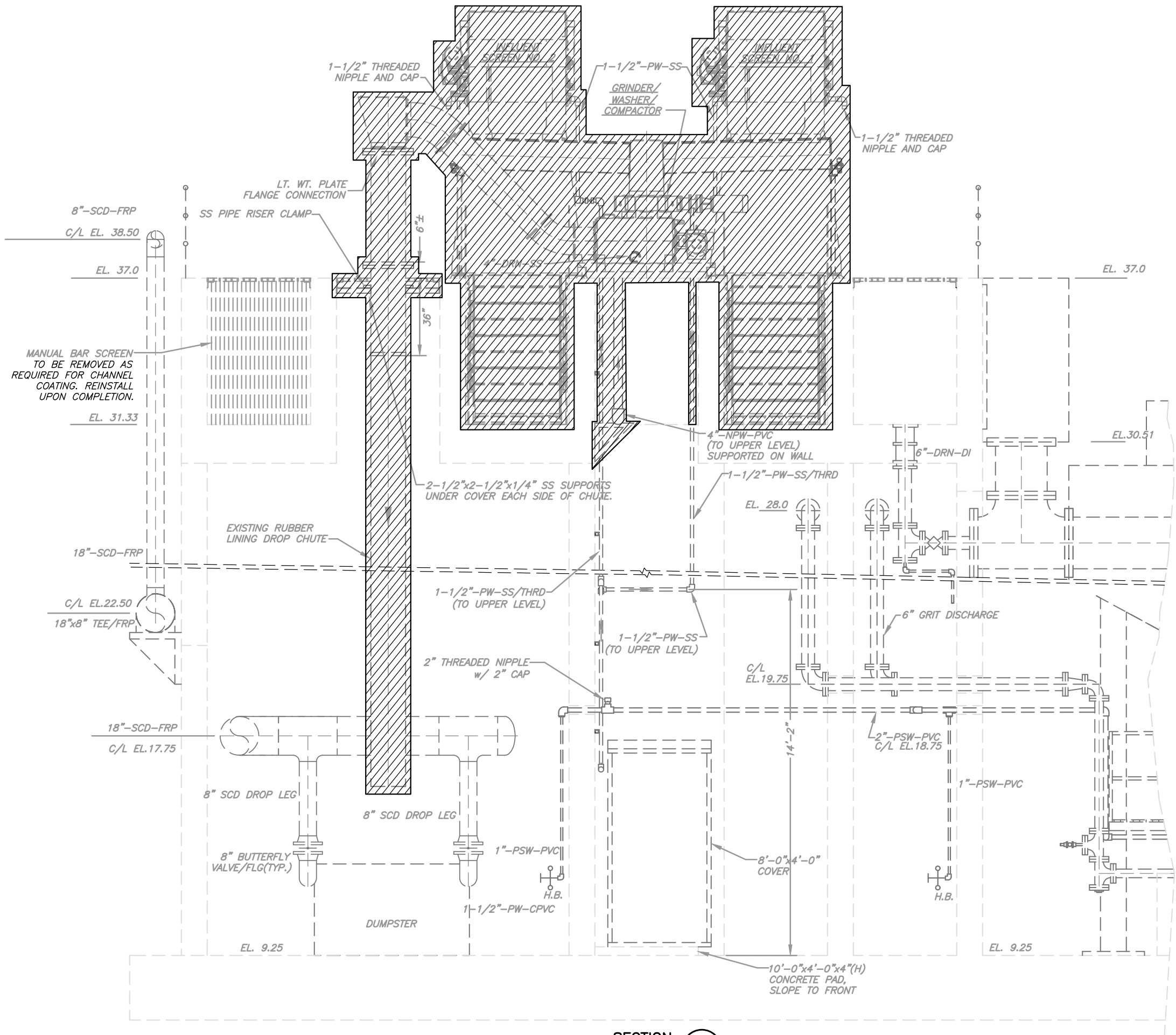
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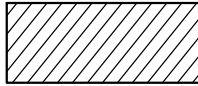
JARED M. MELLEIN, P.E.
FL. LICENSE NO. 89872
05/02/2025

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TE		DESCRIPTION
M.M. SIGN	R.V. DRAWN	N.D. CHKD
SCALE	1/2"=1'-0"	
B No. 340793-01-00		
D File 340793_Plans		
TE 05/02/2025		
DEMOLITION SECTION A-A		
SHEET M-5		

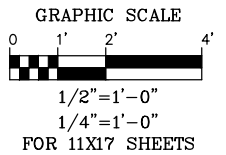


LEGEND:



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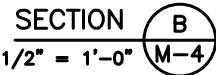
COLLIER COUNTY

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3-B



GRAPHIC SCALE

0 1' 2' 4'

$1/2" = 1'-0"$
 $1/4" = 1'-0"$

FOR 11X17 SHEETS

COLLIER COUNTY

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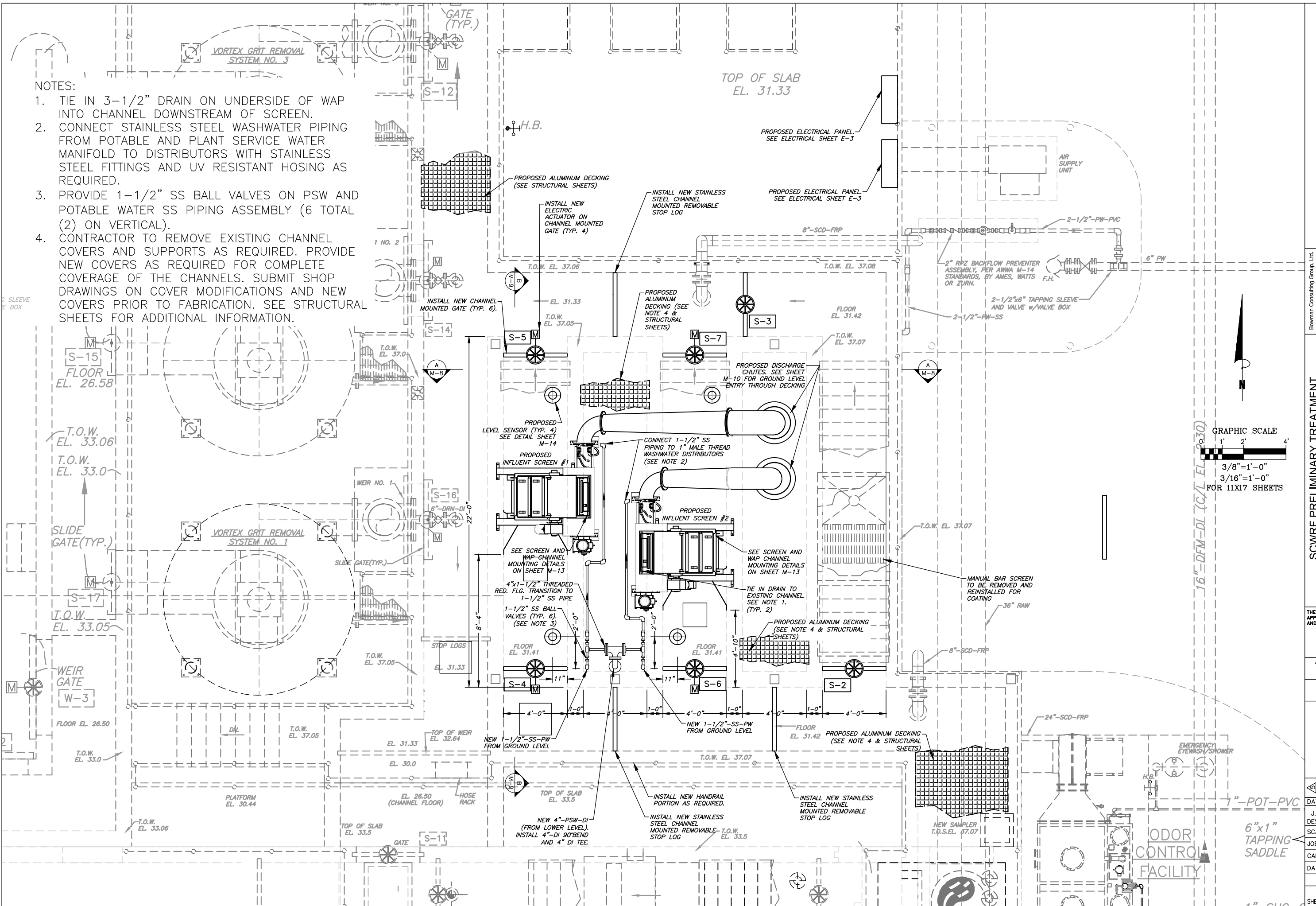
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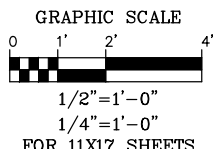
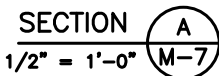
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2

1. TIE IN 3-1/2" DRAIN ON UNDERSIDE OF WAP INTO CHANNEL DOWNSTREAM OF SCREEN.
2. CONNECT STAINLESS STEEL WASHWATER PIPING FROM POTABLE AND PLANT SERVICE WATER MANIFOLD TO DISTRIBUTORS WITH STAINLESS STEEL FITTINGS AND UV RESISTANT HOSE AS REQUIRED.
3. PROVIDE 1-1/2" SS BALL VALVES ON PSW AND POTABLE WATER SS PIPING ASSEMBLY (6 TOTAL (2) ON VERTICAL).
4. CONTRACTOR TO REMOVE EXISTING CHANNEL COVERS AND SUPPORTS AS REQUIRED. PROVIDE NEW COVERS AS REQUIRED FOR COMPLETE COVERAGE OF THE CHANNELS. SUBMIT SHOP DRAWINGS ON COVER MODIFICATIONS AND NEW COVERS PRIOR TO FABRICATION. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.

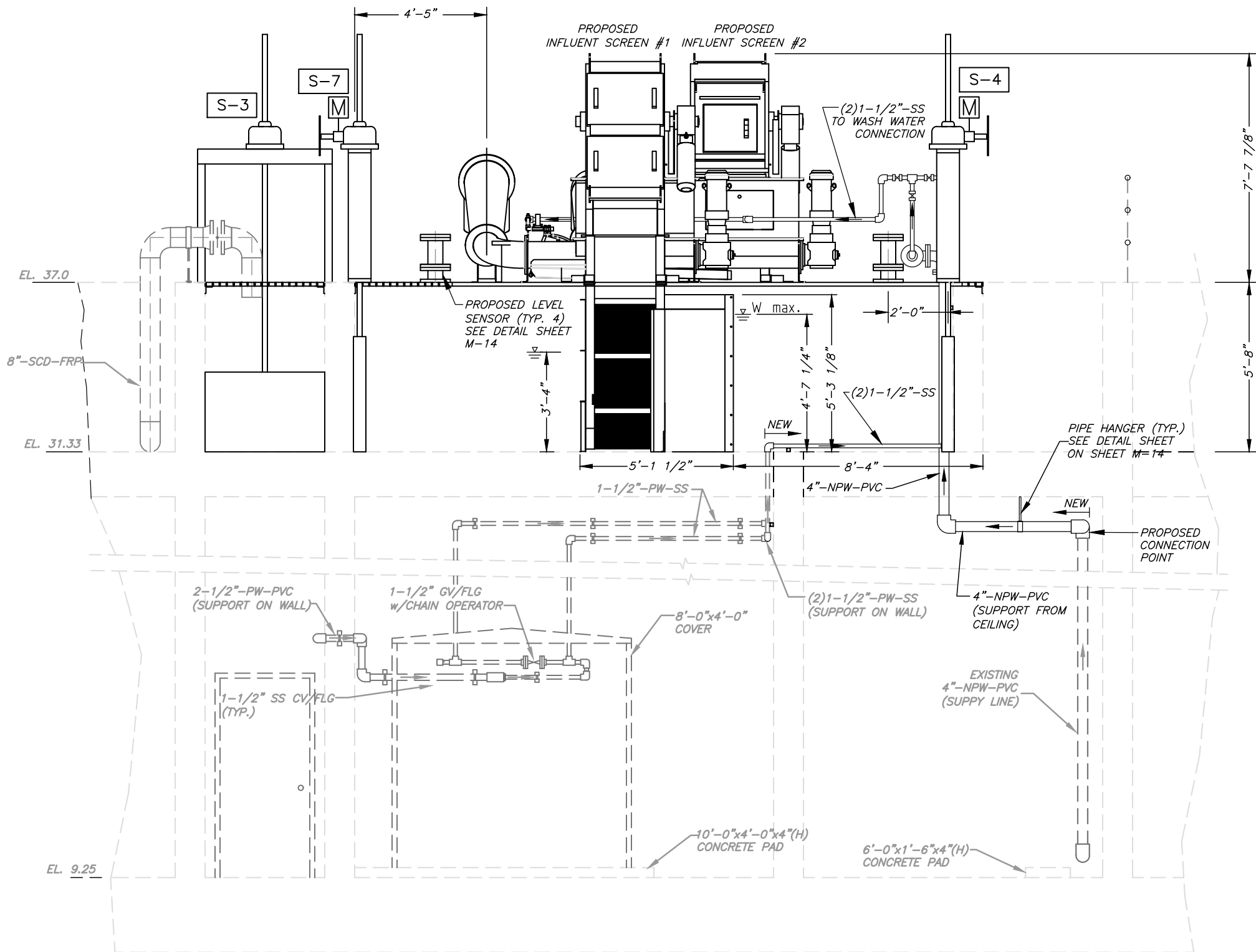




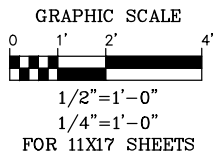
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SECTION B
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SCREEN REPLACEMENT
PROPOSED SECTION B-B
5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

THESE DRAWINGS ARE NOT
APPROVED UNLESS SIGNED
AND SEALED BELOW :

JARED M. MELLEIN, P.E.
FL. LICENSE NO. 89872
05/02/2025

REV	DESCRIPTION	DATE

DATE	DESCRIPTION
J.M. DESIGN	R.V. DRAWN
N.D. CHKD	
SCALE 1/2"=1'-0"	
JOB No. 340793-01-001	
CAD File 340793_Plans	
DATE 05/02/2025	
PROPOSED SECTION B-B	
SHEET	M-9

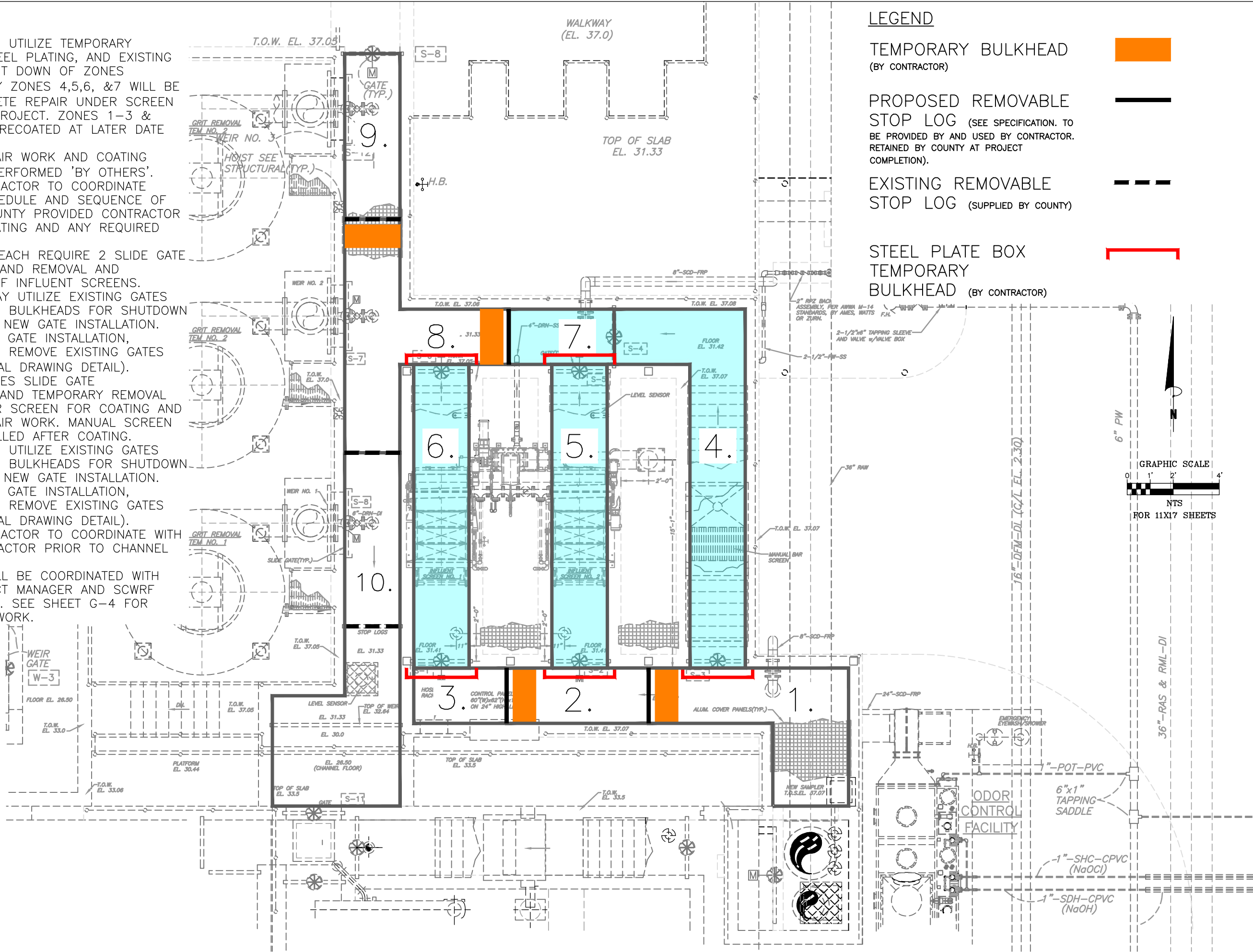
Bowman
FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

Q:\FL-NAPL-HM\DATA-NP2\00 BOWMAN PROJECTS\340793-01-001 SCWRF PRELIMINARY TREATMENT SCREEN REPLACEMENT\DWG\MASTERPLAN\340793_Plans.dwg, M-11 Shutdown Procedures, 5/2/2025 1:35:31 PM, DWG To PDF.pc3

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NOTES:

- CONTRACTOR TO UTILIZE TEMPORARY BULKHEADS, STEEL PLATING, AND EXISTING GATES FOR SHUT DOWN OF ZONES (4,5,6&7). ONLY ZONES 4,5,6, &7 WILL BE COATED/CONCRETE REPAIR UNDER SCREEN REPLACEMENT PROJECT. ZONES 1-3 & 7-10 WILL BE RECOATED AT LATER DATE BY OTHERS.
- CONCRETE REPAIR WORK AND COATING WORK TO BE PERFORMED 'BY OTHERS'. GENERAL CONTRACTOR TO COORDINATE SHUTDOWN SCHEDULE AND SEQUENCE OF WORK WITH COUNTY PROVIDED CONTRACTOR FOR INITIAL COATING AND ANY REQUIRED TOUCH UP.
- ZONES 5 & 6 EACH REQUIRE 2 SLIDE GATE REPLACEMENTS AND REMOVAL AND REPLACEMENT OF INFLUENT SCREENS. CONTRACTOR MAY UTILIZE EXISTING GATES AND STEEL BOX BULKHEADS FOR SHUTDOWN OF ZONES AND NEW GATE INSTALLATION. FOLLOWING NEW GATE INSTALLATION, CONTRACTOR TO REMOVE EXISTING GATES (SEE STRUCTURAL DRAWING DETAIL).
- ZONE 4 REQUIRES SLIDE GATE REPLACEMENTS AND TEMPORARY REMOVAL OF MANUAL BAR SCREEN FOR COATING AND CONCRETE REPAIR WORK. MANUAL SCREEN TO BE REINSTALLED AFTER COATING. CONTRACTOR TO UTILIZE EXISTING GATES AND STEEL BOX BULKHEADS FOR SHUTDOWN OF ZONES AND NEW GATE INSTALLATION. FOLLOWING NEW GATE INSTALLATION, CONTRACTOR TO REMOVE EXISTING GATES (SEE STRUCTURAL DRAWING DETAIL).
- GENERAL CONTRACTOR TO COORDINATE WITH COATING CONTRACTOR PRIOR TO CHANNEL ISOLATIONS.
- ALL WORK SHALL BE COORDINATED WITH COUNTY PROJECT MANAGER AND SCWRF PLANT MANAGER. SEE SHEET G-4 FOR SEQUENCE OF WORK.



LEGEND

TEMPORARY BULKHEAD
(BY CONTRACTOR)

PROPOSED REMOVABLE
STOP LOG (SEE SPECIFICATION. TO
BE PROVIDED BY AND USED BY CONTRACTOR.
RETAINED BY COUNTY AT PROJECT
COMPLETION).

EXISTING REMOVABLE
STOP LOG (SUPPLIED BY COUNTY)

STEEL PLATE BOX
TEMPORARY
BULKHEAD (BY CONTRACTOR)

SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
SHUTDOWN PROCEDURES
5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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SCALE	NTS			
JOB No. 340793-01-001				
CAD File 340793_Plans				
DATE 05/02/2025				
EXISTING UPPER PLAN				

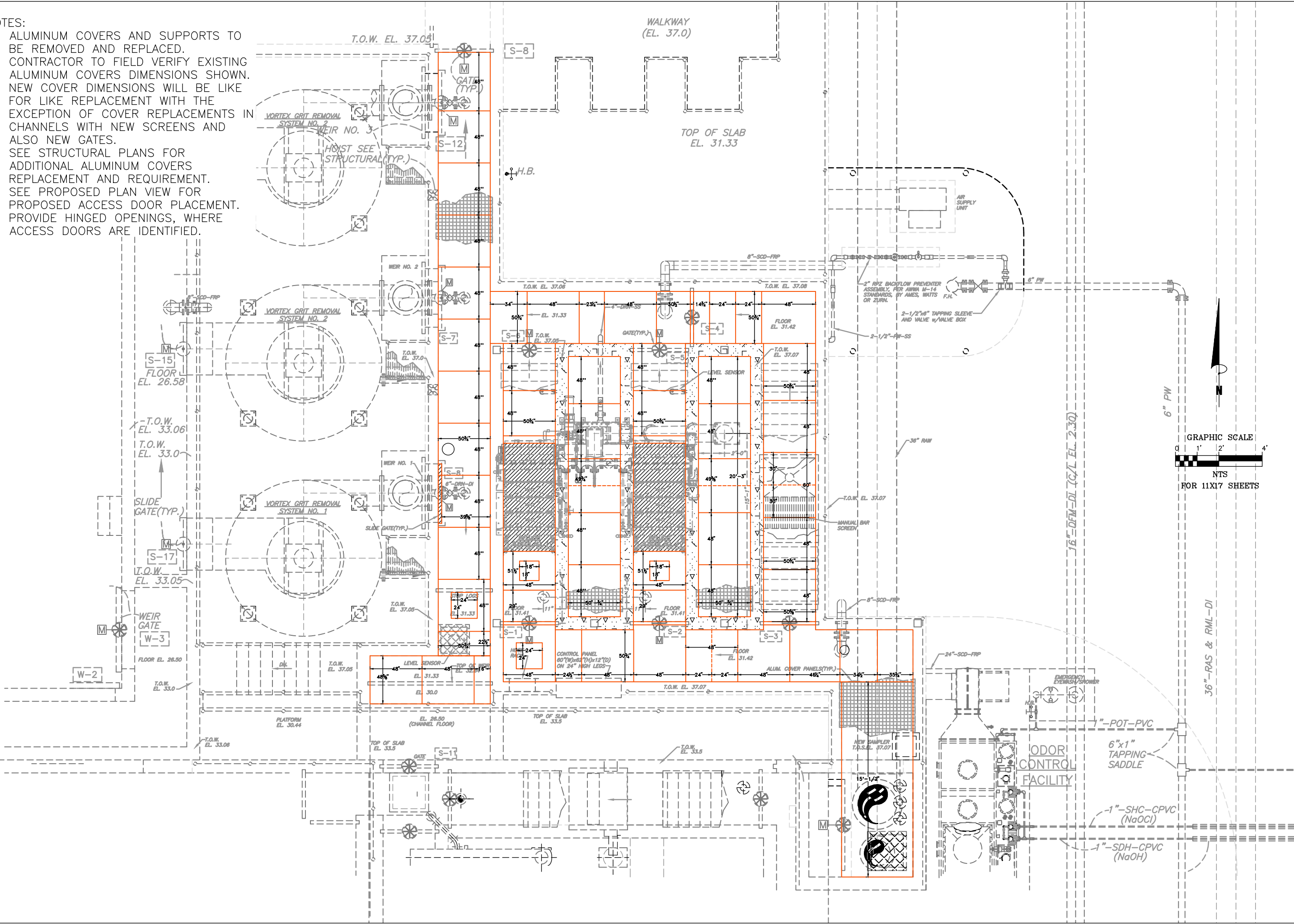
J.M. DESIGN	R.V. DRAWN	N.D. CHKD
SCALE	NTS	
JOB No. 340793-01-001		
CAD File 340793_Plans		
DATE 05/02/2025		
EXISTING UPPER PLAN		
SHEET	M-11	

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- NOTES:
1. ALUMINUM COVERS AND SUPPORTS TO BE REMOVED AND REPLACED.
 2. CONTRACTOR TO FIELD VERIFY EXISTING ALUMINUM COVERS DIMENSIONS SHOWN.
 3. NEW COVER DIMENSIONS WILL BE LIKE FOR LIKE REPLACEMENT WITH THE EXCEPTION OF COVER REPLACEMENTS IN CHANNELS WITH NEW SCREENS AND ALSO NEW GATES.
 4. SEE STRUCTURAL PLANS FOR ADDITIONAL ALUMINUM COVERS REPLACEMENT AND REQUIREMENT.
 5. SEE PROPOSED PLAN VIEW FOR PROPOSED ACCESS DOOR PLACEMENT.
 6. PROVIDE HINGED OPENINGS, WHERE ACCESS DOORS ARE IDENTIFIED.



SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
EXISTING ALUMINUM COVER PLAN
5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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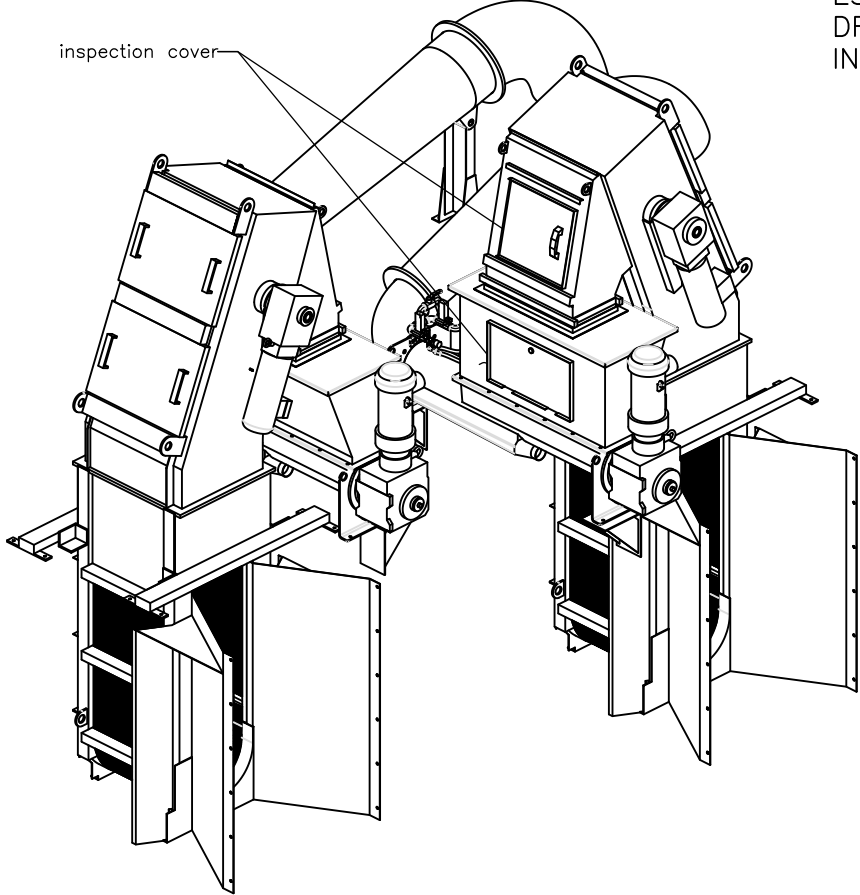
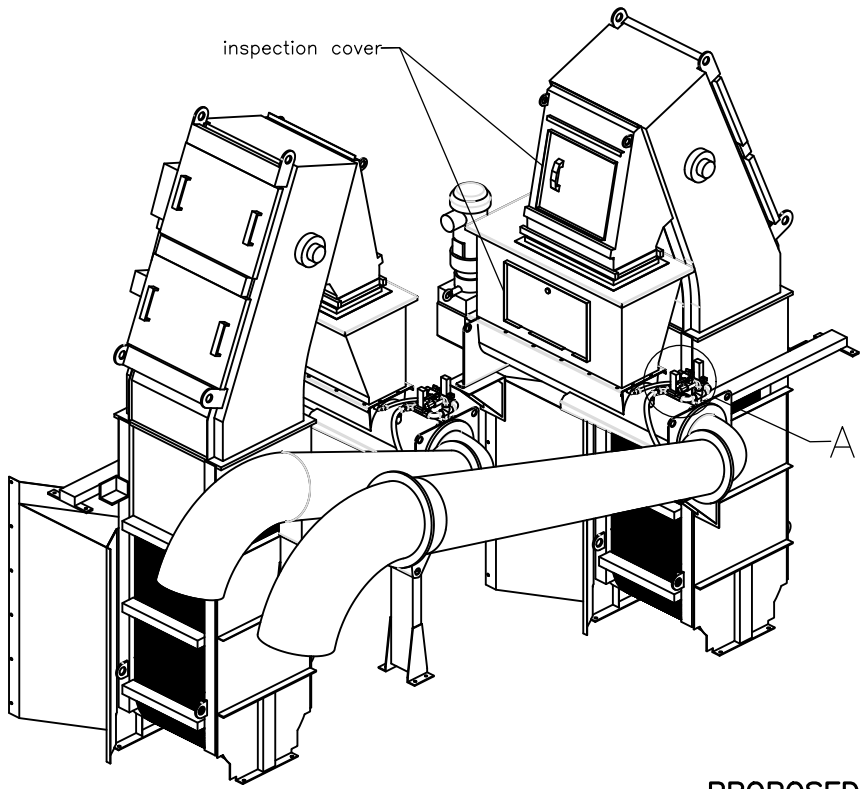
DATE	DESCRIPTION	REV	DESCRIPTION	DATE
J.M. DESIGN	R.V. DRAWN	N.D. CHKD		
SCALE	NTS			
JOB No. 340793-01-001				
CAD File 340793_Plans				
DATE 05/02/2025				
EXISTING UPPER PLAN				

J.M. DESIGN	R.V. DRAWN	N.D. CHKD
SCALE	NTS	
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CAD File 340793_Plans		
DATE 05/02/2025		
EXISTING UPPER PLAN		
SHEET	M-12	

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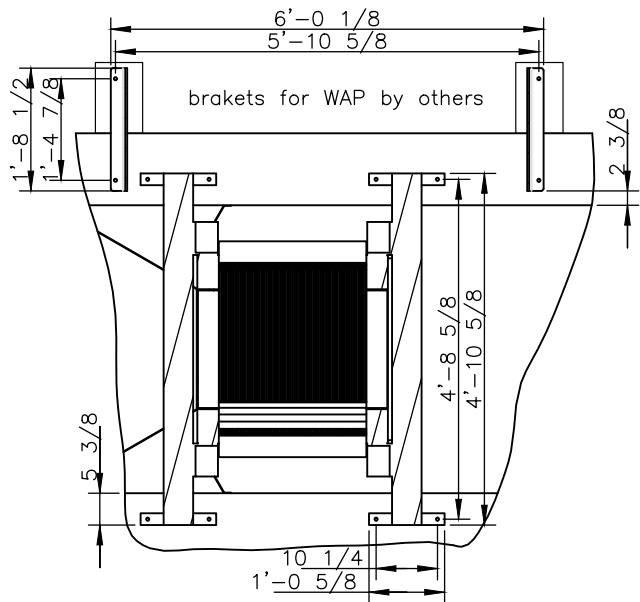
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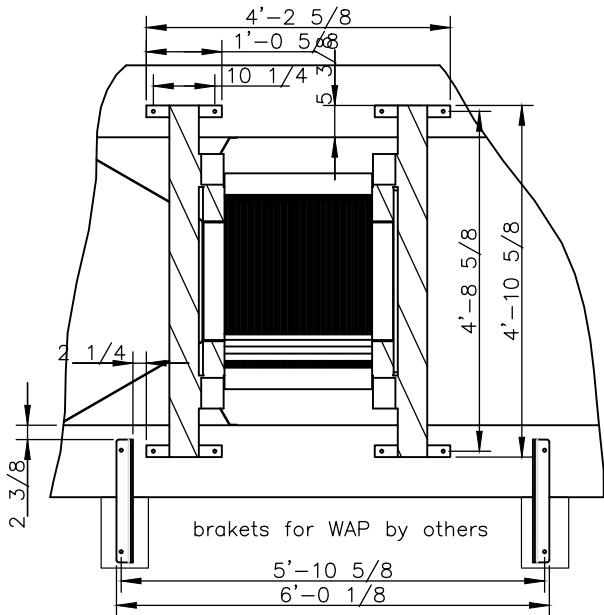


NOTE: THESE ARE VENDOR DETAILS
PROVIDED FOR CLARITY AND BID
ESTIMATING. APPROVED SHOP
DRAWINGS WILL DICTATE THE
INSTALLATION PROCEDURES.

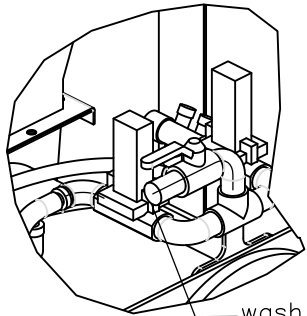
PROPOSED INFLUENT
SCREENS & WAP'S
NTS



CHANNEL MOUNTING DETAIL
INFLUENT SCREEN #1
NTS



CHANNEL MOUNTING DETAIL
INFLUENT SCREEN #2
NTS



WASH WATER CONNECTION DETAIL
(DETAIL A)
NTS

△

△

△

△

△

DATE

DESCRIPTION

J.M. DESIGN

R.V. DRAWN

N.D. CHKD

SCALE

NTS

JOB No. 340793-01-001

CAD File 340793_Plans

DATE 05/02/2025

DETAILS

SHEET M-13

SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
DETAILS

5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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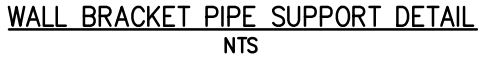
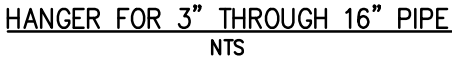
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2. COORDINATE LOCATION OF ALL PIPE PENETRATIONS TO AVOID CHANNEL SUPPORTS AND STIFFENERS.

NTS

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SCREEN REPLACEMENT

DETAILS

5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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05/02/2025

5		
4		
3		
2		
1		
REV	DESCRIPTION	DATE

DATE		DESCRIPTION	
J.M. DESIGN	R.V. DRAWN	N.D. CHKD	
SCALE		NTS	

JOB No. 340793-01-00

CAD File 340793_Plans

DATE 05/02/2025

DETAILS

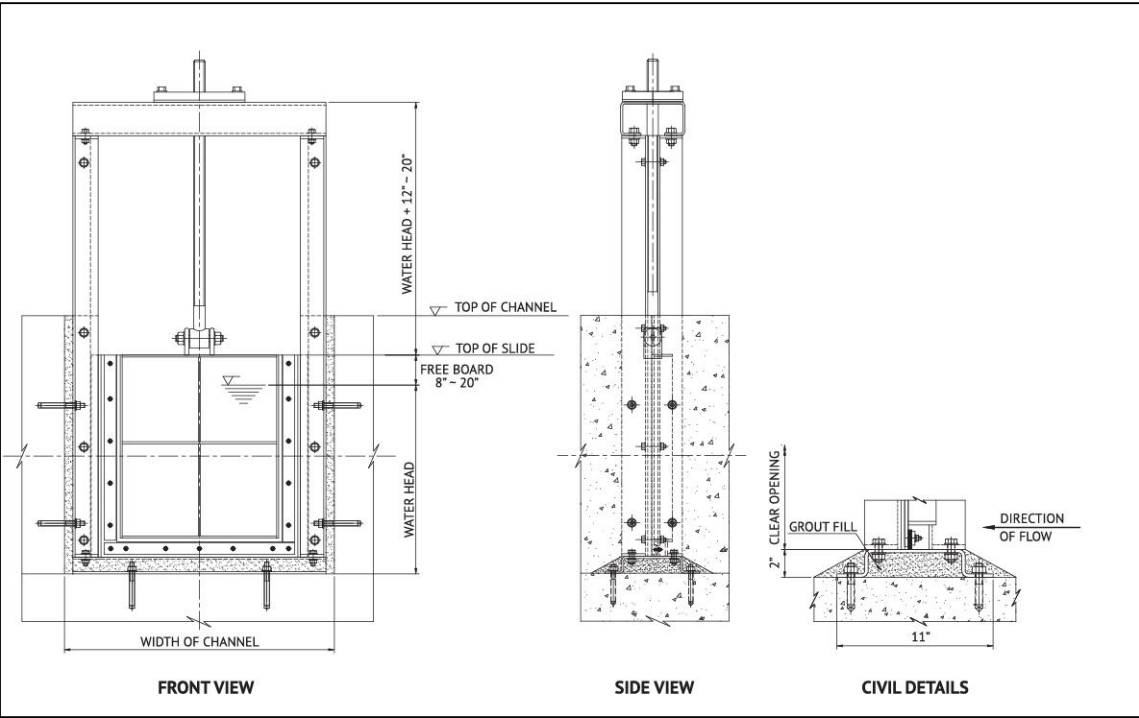
M 14

SHEET **VI-14**

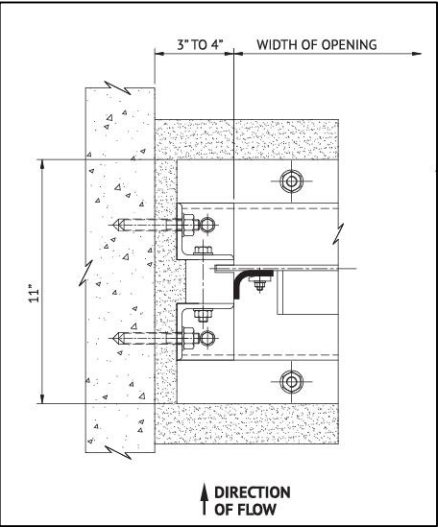
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DATE: 05/02/2025 1:35:53 PM, USER: JARED MELLEIN, P.E., PROJECT: SCWRF PRELIMINARY TREATMENT SCREEN REPLACEMENT, DRAWING: 340793_Plans.dwg, 5/2/2025
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STAINLESS STEEL GATE TABLE

Gate Number	Description	New Actuator	Gate Mounting	Gate Material	Opening direction	Channel Width (ft)	Top of Wall E.	Channel Bottom E.
S-2	Manual Slide Gate	NO	Channel Mounted	Stainless Steel	UP	4	37.05	31.42
S-3	Manual Slide Gate	NO	Channel Mounted	Stainless Steel	UP	4	37.05	31.42
S-4	Slide Gate with actuator	YES	Channel Mounted	Stainless Steel	UP	4	37.05	31.42
S-5	Slide Gate with actuator	YES	Channel Mounted	Stainless Steel	UP	4	37.05	31.42
S-6	Slide Gate with actuator	YES	Channel Mounted	Stainless Steel	UP	4	37.05	31.42
S-7	Slide Gate with actuator	YES	Channel Mounted	Stainless Steel	UP	4	37.05	31.42

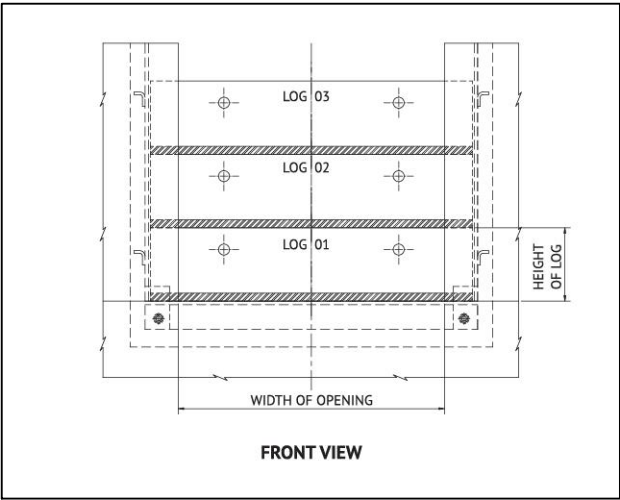


GATE DETAIL
NTS

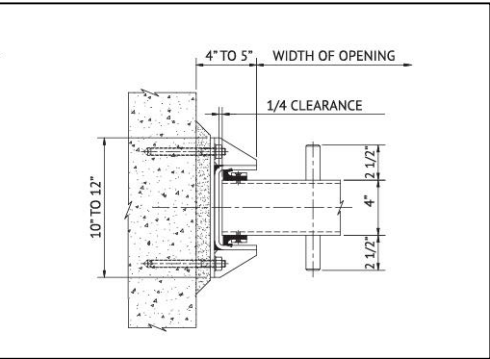


GATE DETAIL
NTS

- GATE NOTES:
- GATE SHALL BE CONSTRUCTED FROM 316 SS
 - GATE OPERATORS SHOWN ON THE DRAWINGS ARE FOR ILLUSTRATION ONLY. DESIGN OF GATE OPERATORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - GROUT SHALL BE EUCLID NS GROUT OR APPROVED EQUAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - ALL ANCHOR SYSTEMS SHALL BE SS AND APPROVED.
 - DRILL, INSTALL SS ANCHORS INTO CONCRETE W/ S7 ADHESIVE (RED HEAD) PER MANUFACTURER REQUIREMENTS. 5" MIN EMBEDMENT INTO CONCRETE
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO SUBMITTAL.
 - PLANS, DETAILS, AND SPECIFICATIONS BASED UPON RODNEY HUNT SERIES A-212 SIDE WALL ANCHORED.



STOP LOG DETAIL
NTS



STOP LOG DETAIL (PLAN)
NTS

- STOP LOG NOTES:
- STOP LOGS SHALL BE CONSTRUCTED FROM 316 SS
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO SUBMITTAL.
 - PLANS, DETAILS, AND SPECIFICATIONS BASED UPON RODNEY HUNT SERIES A-412 LOG MOUNTED SEALING ARRANGEMENT.

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SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
DETAILS
5600 WARREN STREET, NAPLES, FL, 34113
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CAD File	340793_Plans	
DATE	05/02/2025	
	DETAILS	
SHEET	M-15	

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FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

1010 GENERAL:

- 1015 ALTERATION OF EXISTING FACILITY:**

- 1060 DESIGN AND CONSTRUCTION STANDARDS:**

- 1120 SUBMITTAL (SHOP DRAWING) REVIEW:**

- 3307 PENETRATIONS:**

- 3601 POST-INSTALLED ANCHORS:**

- #### a. CONCRETE MECHANICAL ANCHORS

- TRUBOLT BY ITW REDHEAD - AISI 316 STAINLESS STEEL
- KWIK BOLT 3 BY HILTI - AISI 316 STAINLESS STEEL
- POWER STUD BY POWERS - AISI 316 STAINLESS STEEL

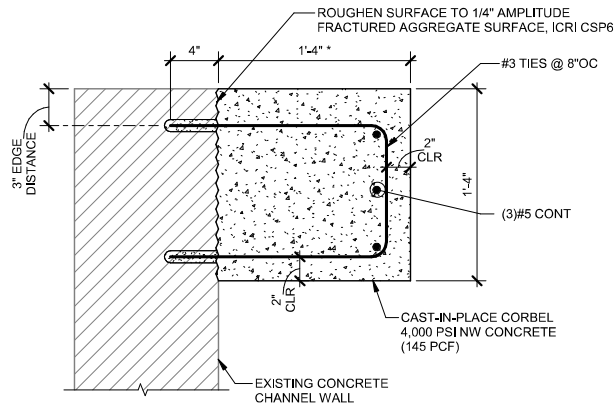
- b. SCREW ANCHORS:

- TAPPER BY POWERS - AISI 316 STAINLESS STEEL
- HUS-H BY HILTI

- c. CONCRETE OR SOLID GROUTED CMU ADHESIVE ANCHORS:
• HY 200 MAX BY HILTI - AISI 316 STAINLESS STEEL

ADDL	- ADDITIONAL	FOM	- FACE OF MASONRY	PAF	- POWER ACTUATED FASTENERS
AR	- ANCHOR ROD	FS	- FAR SIDE	PART	- PARTITION
ALT	- ALTERNATE	FT	- FOOT	PARTL	- PARTIAL
APPROX	- APPROXIMATELY	F#	- FOOTING	PCJ	- PRECAST CONCRETE JOIST
ARCH	- ARCHITECT	FTG	- FOOTING	PJP	- PARTIAL JOINT PENETRATION
ARCHL	- ARCHITECTURAL	FV	- FIELD VERIFY	PL	- PLATE
B/	- BOTTOM OF	GA	- GAUGE	PLF	- POUNDS PER LINEAR FOOT
BC	- BOTTOM CHORD	GALV	- GALVANIZED	PSF	- POUNDS PER SQUARE FOOT
BLDG	- BUILDING	GC	- GENERAL CONTRACTOR	PSI	- POUNDS PER SQUARE INCH
BM	- BEAM	GT	- GIRDER TRUSS	PT	- POST TENSIONED
BOTT	- BOTTOM	HC	- HOLLOW CORE	P/T	- PRESSURE TREATED
BRG	- BEARING	HCP	- HOLLOW CORE PLANK	PNL	- PANEL
C/C	- CENTER TO CENTER	HGD	- HOT DIPPED GALVANIZED	R	- RADIUS
CF	- CONTINUOUS FOOTING	HG	- HIP GIRDER	REG	- REGULAR
CJ	- CAST IN PLACE	HK	- HOOK	REINF	- REINFORCING
CJ	- CONTRACTION JOINT	HORIZ	- HORIZONTAL	REM	- REMAINDER
CJP	- COMPLETE JOINT PENETRATION	HP	- HIGH POINT	REQD	- REQUIRED
CL, &	- CENTERLINE	HS	- HIGH STRENGTH	REV	- REVISED/REVISION
CLR	- CLEAR	IJ	- ISOLATION JOINT	RM	- ROOM
CMU	- CONCRETE MASONRY UNIT	INFO	- INFORMATION	RO	- ROUGH OPENING
ENTRD	- ENTERED	INS	- INSULATION	REQMTS	- REQUIREMENTS
COL	- COLUMN	INT	- INTERIOR	SCHED	- SCHEDULE
CONC	- CONCRETE	IRR	- IRREGULAR	SECT	- SECTION
CONFIG	- CONFIGURATION	JB	- JOIST BEARING	SIM	- SIMILAR
CONT	- CONTINUOUS	JBE	- JOIST BEARING ELEVATION	SL	- SLOPE
CONTR	- CONTRACTOR	JR	- JOIST REINFORCING	SOG	- SLAB-ON-GRADE
CTR	- CENTER	JT	- JOINT	SP	- SPIRAL
DBL	- DOUBLE	K	- KIPS, 1000 POUNDS	SQ	- SQUARE
DD	- DECK DRAIN	KLF	- KIPS PER LINEAR FOOT	SS	- STAINLESS STEEL
DTL	- DETAIL	KJ	- CONSTRUCTION JOINT	STD	- STANDARD
DIA	- DIAMETER	L	- ANGLE	STL	- STEEL
DIM	- DIMENSION	LG	- LONG	STRUCTL	- STRUCTURAL
DN	- DOWN	LLH	- LONG LEG HORIZONTAL	SW#	- SHERWALL
DR	- DRAIN	LLV	- LONG LEG VERTICAL	SW	- SHORT WAY
WGW	- DRAWING	LP	- LOW POINT	TF	- TOP OF
EA	- EACH	LW	- LONG WAY	TB	- TIE BEAM
EE	- EACH END	LWT	- LIGHTWEIGHT	TC	- TIE COLUMN
EF	- EACH FACE	MFR	- MANUFACTURER	TEMP	- TEMPERATURE
EJ	- EXPANSION JOINT	MAS	- MASONRY	TG	- TRUSS GIRDER
EL	- ELEVATION	MO	- MASONRY OPENING	TH	- TRUSS HIP
ELEV	- ELEVATOR	MATL	- MATERIAL	THK	- THICK
ENGR	- ENGINEER	MAX	- MAXIMUM	TJ	- TRUSS JACK
ENG	- ENGINEER OF RECORD	MECHL	- MECHANICAL	TRUS	- TRUSS
EOS	- EDGE OF SLAB	MTL	- METAL	TYP	- TYPICAL
EQ	- EQUAL	MIN	- MINIMUM	UNO	- UNLESS NOTED OTHERWISE
EW	- EACH WAY	MISC	- MISCELLANEOUS	VERT	- VERTICAL
EXIST	- EXISTING	NS	- NEAR SIDE	W/	- WITH
EXP	- EXPANSION	NIC	- NOT IN CONTRACT	W/O	- WITHOUT
EXT	- EXTERIOR	NTS	- NOT TO SCALE	WD	- WOOD
FIN	- FINISH	NWFL	- NORMAL WEIGHT	WF	- WALL FOOTING
FLR	- FLOOR	OC	- ON CENTER	WP	- WORK POINT
FD	- FLOOR DRAIN	OH	- OPPOSITE HAND	WWR	- WELDED WIRE REINFORCING
FDN	- FOUNDATION	OPNG	- OPENING		

SHT NO.	DESCRIPTION
S1-1	STRUCTURAL NOTES
S1-2	REPAIR PLAN LOWER
S1-3	REPAIR PLAN UPPER



2 NEW CORBEL FOR SCREEN SUPPORT
S1-2 1 1/2" = 1'-0"



REPAIR PLAN

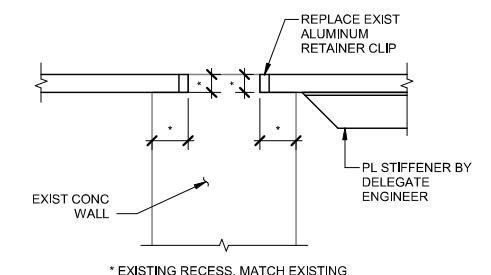
KEYNOTES	
Key	DESCRIPTION
1	INTERIOR FACE OF CONCRETE CHANNEL, BOTTOM AND SIDES: REMOVE ALL EXISTING COATINGS FROM TROUGH WALL, (ALL SURFACES), TROUGH SLAB (TOP & BOTTOM); INTERIOR TANK WALL, EXISTING WEIR AND BAFFLE BY MECHANICAL SCRAPING AND SAND BLASTING. REMOVE ALL DETERIORATED CONCRETE, DIRT, OIL, GREASE, LAITANCE, AND ANY OTHER BOND INHIBITING MATERIALS FROM SURFACE. PERFORM SURFACE PREPARATION AND APPLY EPOXYTEC CPP SYSTEM WITH MINIMUM COATING THICKNESS OF 100 MIL DFT. REFER TO SPECIFICATIONS.
3	REPLACE EXISTING ALUMINUM BEAM W/ NEW ALUMINUM BEAM FOR SUPPORT OF ALUMINUM PLATE. SEE KEYNOTE 2, SHT 51-3 FOR REQUIRED ENGINEERING.
4	NEW SURFACE MOUNTED GATES. SEE MECHANICAL DRAWINGS.
5	EXCAVATE CONCRETE TO REMOVE EXISTING GATE RAIL SLIDES AND REPAIR. SEE DETAIL 2/51-3

LEGEND

 INDICATES EXTENT OF COATING. SEE KEYNOTE 1.

TRC
WORLDWIDE ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 35821
11926 Fairway Lakes Drive
FORT MYERS, FL 33913
PHONE: (239) 939-1414
FAX: (239) 278-4289
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DATE	DESCRIPTION	REVISION	DATE
5	4	3	2
1	2	3	4
DATE	DESCRIPTION	REVISION	DATE
PSM DESIGN	KLI DRAWN	PSM CHKD	
SCALE As indicated			
JOB NO. 340793-01-001			
CAD FILE			
DATE	12/3/24		
REPAIR PLAN LOWER			
S1-2			
SHEET			



CONNECTION BY DELEGATE ENGINEER

NEW PRE-ENG BEAM, MATCH EXIST DEPTH

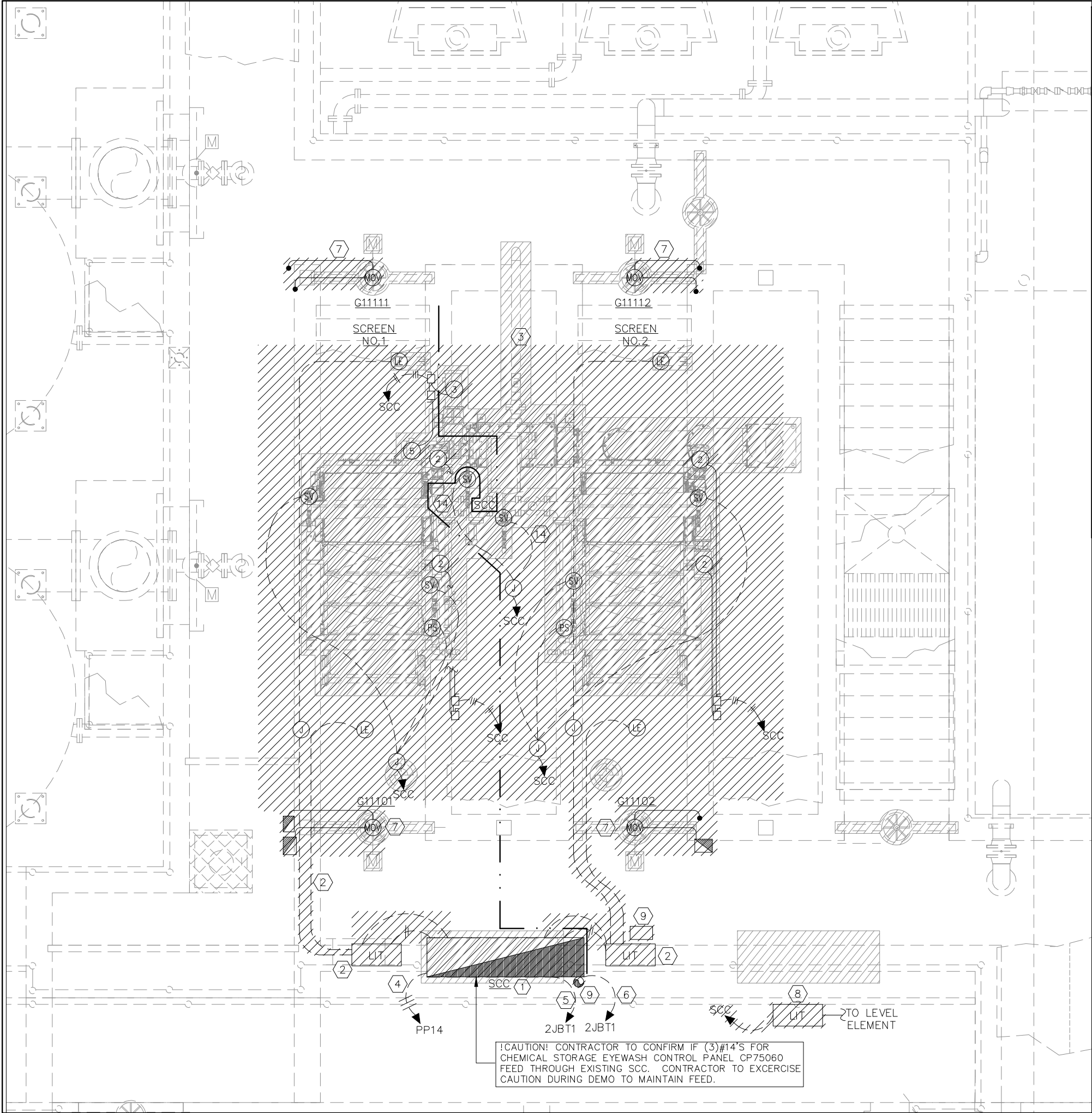
EXIST WALL

3 REPAIR PLAN UPPER
S1-3 3/8" = 1'-0"

KEYNOTES	
Key	DESCRIPTION
2	REPLACE EXISTING ALUMINUM CHECKERED PLATING W/ 3/8" THICK ALUMINUM DIAMOND PLATE 6061-T6 ALLOY REINFORCED W/ A MINIMUM OF L4x4x1/4 6061-T6 ALUMINUM ALLOY @ 2'-0" OC. WALKWAY SYSTEM SHALL BE ENGINEERED FOR A LIVE LOAD OF 50 PSF CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DRAWINGS AND CALCULATIONS FOR REVIEW PRIOR TO FABRICATION. CHECKERED PLATE SHALL MATCH EXISTING CONFIGURATION AND SHALL BE REMOVABLE.

TRC
WORLDWIDE ENGINEERING
CERTIFICATE OF AUTHORIZATION NO. 35826
11926 Fairway Lakes Drive
FORT MYERS, FL 33913
PHONE: (239) 939-1414
FAX: (239) 278-4289
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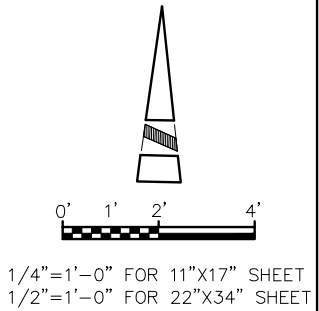
ONE THE NAME, KVSUS, C0007, Preliminary Treatment, Screen No. 2, Aug 13/19/2025
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KEYNOTES:

1. DEMO EXISTING SCREEN CONTROL PANEL ;SCC UPON INSTALLATION OF NEW SCREEN NO.2 AND SCC-2 CONTROL PANEL. PROTECT EXISTING CONDUIT FOR REUSE. INSTALL STAINLESS STEEL NEMA 4X 8"HX6"WX6"D MIN. PULLBOX FOR CHEMICAL STORAGE EYEWASH CONTROL PANEL WIRING.
2. DEMO DUAL LEVEL INDICATOR TRANSMITTERS AND ELEMENTS COMPLETE.
3. DEMO SCREEN NO.1, SCREEN NO.2, GRINDER MOTOR AND AUGER MOTOR ELECTRICAL EQUIPMENT AND APPURTENANCES COMPLETE TO FACILITATE INSTALLATION OF NEW SCREEN UNITS. CONTRACTOR TO SEQUENCE DEMOLITION OF EXISTING SCREEN NO.2 UNIT FIRST ALONG WITH GRINDER AND AUGER EQUIPMENT. REMOVE ALL WIRE BACK TO EXISTING SCC PANEL. DEMO ALL SURFACE MOUNTED CONDUIT. PROTECT CONCEALED CONDUIT SECTIONS AND CONDUIT STUBUPS FOR REUSE. PROTECT EXISTING LIGHTNING PROTECTION & BONDING SYSTEMS THROUGHOUT DEMOLITION CONNECTION POINTS. REROUTE AND EXTEND EXISTING LIGHTNING PROTECTION & BONDING SYSTEMS TO NEW EQUIPMENT AND ENCLOSURES.
4. REMOVE WIRE BACK TO PP14, CAP AND ABANDON EXISTING CONDUIT IN PLACE.
5. PROTECT EXISTING (2)1"C. WITH (20)#14 CONDUCTORS TO PLC 5 VIA 2TJB1 FOR REUSE.
6. PROTECT EXISTING (1)1"C. WITH FIBER OPTIC CABLE TO PLC 5 FOR REUSE.
7. DEMO ACTUATOR, SPLICE AND TERMINATION BOXES. DEMO ALL SURFACE MOUNTED CONDUIT AND PROTECT CONCEALED SECTION OF CONDUIT FOR REUSE. PROTECT EXISTING POWER AND I&C WIRE FOR REUSE.
8. DEMO EXISTING MANUAL BAR SCREEN TRANSMITTER, SURGE SUPPRESSOR, CONDUIT AND WIRE BACK TO SCC. PROTECT TRANSMITTER, MANUFACTURER CABLE AND CONDUIT TO LEVEL ELEMENT FOR REINSTALLATION
9. DEMO EXISTING WEATHERSTATION AND TERMINATION CABINET COMPLETE.

DEMO =



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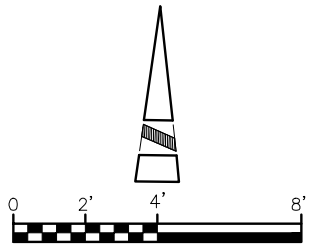
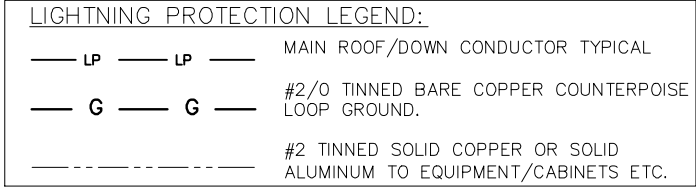
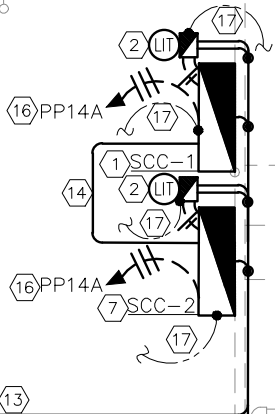
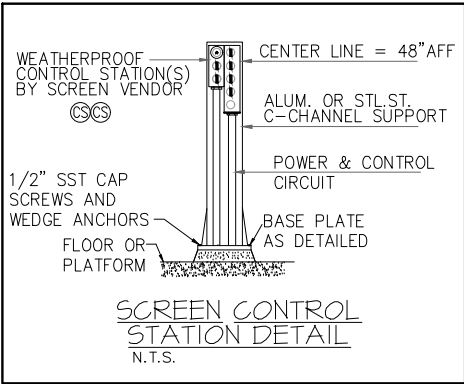
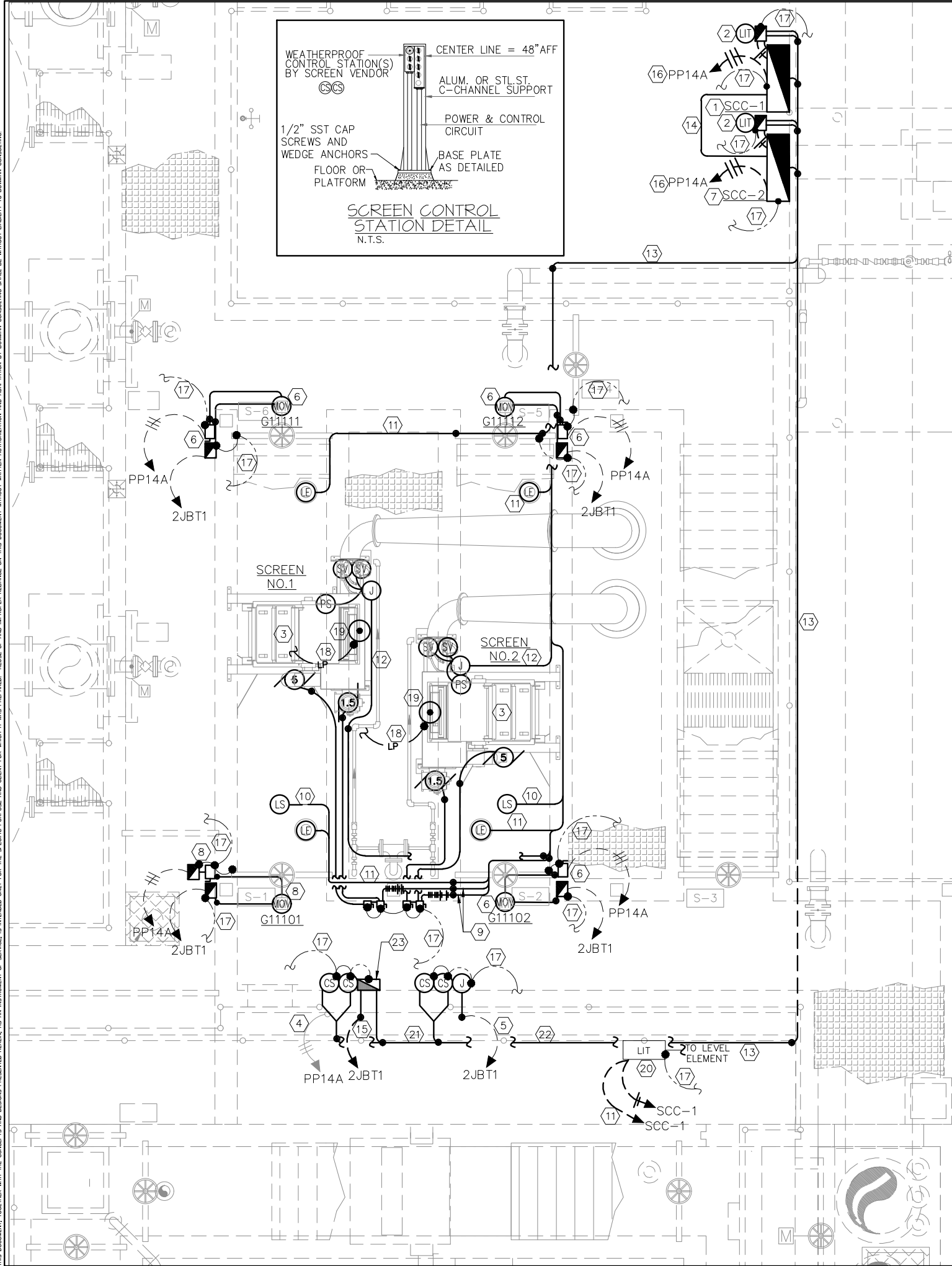
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				DATE
				DESCRIPTION
Δ	Δ	Δ	Δ	REV.
DATE		DESCRIPTION		
JM DESIGN	RV DRAWN	JM CHKD		
SCALE				
JOB No. 340793-01-001				
CAD File		E-2.dwg		
DATE		XX/XX/XXXX		
SHEET		E-2		

SCWRF PRELIMINARY TREATMENT
SCREEN REPLACEMENT
UPPER LEVEL HEADWORKS ELECTRICAL
DEMOLITION PLAN
5600 WARREN STREET, NAPLES, FL, 34113
COLLIER COUNTY

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3/16"=1'-0" FOR 11"x17" SHEET
3/8"=1'-0" FOR 22"x34" SHEET

GENERAL NOTES:

- ALL EQUIPMENT & DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE WITH SHOP DRAWING FOR EXACT LOCATIONS.
- THIS PLAN DOES NOT INDICATE ALL CONDUIT & WIRE REQUIRED; SEE ADDITIONAL REQUIREMENTS ON SINGLE LINE & ELEMENTARY DRAWINGS.
- ALL CONDUIT ELLS UNDER SLAB SHALL BE RIGID ALUMINUM CONDUIT COATED WITH TWO COATS OF BITUMASTIC COATING.
- PROVIDE 480V-3P TVSS ON MOTOR DISCONNECTS; SQ-D SDSA4040D.
- PROVIDE VAPOR CORROSION PROTECTION EMITTERS IN ALL LOCAL CONTROL PANELS, DISCONNECTS, MCCS, ATS, PANEL BOARDS, ETC.
- PROVIDE SUNSHIELDS FOR VFD, PLC, AND FIBER ENCLOSURES.
- ALL EQUIPMENT SHALL BE HUNG ON EQUIPMENT RACK OR FREE STANDING ON 12" LEGS. NO EQUIPMENT SHALL BE MOUNTED WITH THE ENCLOSURE BOTTOM IN DIRECT CONTACT WITH CONCRETE PAD. OPEN WINDOW CUTTING OF ENCLOSURE BOTTOMS IS NOT PERMITTED.
- COMPLY WITH NEC REQUIREMENTS FOR HAZARDOUS AREAS AS DEFINED BY NFPA-820 STANDARDS FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES CURRENT EDITION. PROVIDE EXPLOSION PROOF PANELS, TERMINATION CABINETS, SPLICE BOXES & MOTOR DISCONNECTS. PROVIDE RATED CONDUIT HUBS, ALUMINUM RIGID CONDUIT, FLEXIBLE FITTINGS AND SEALOFFS TO COMPLY.
- ALL U.G CONNECTIONS TO BE VIA EXOTHERMIC WELD (CADWELD) UNLESS INDICATED OTHERWISE.
- ALL WORK INDICATED ON THIS DRAWING, IS TO BE PERFORMED IN COMPLIANCE WITH THE LIGHTNING PROTECTION DETAILS AND SPECIFICATIONS.
- PROVIDE CONCEALED SLEEVES OR FLAT STRAP CONDUCTOR ON ALL WALKWAYS FOR LIGHTNING PROTECTION CONDUCTOR.
- ALL REQUIRED BONDS MAY NOT BE SHOWN; PROVIDE ADDITIONAL BONDS TO ALL DEVICES, INSTRUMENTS, CABINETS, CONTROL VALVES, ETC. AS REQUIRED TO COMPLY WITH UL AND NEC.
- BONDS DIRECTLY TO GROUNDING SYSTEM ARE TO BE #2 TINNED SOLID COPPER. BONDS TO ALUMINUM LIGHTNING PROTECTION SYSTEM ARE TO BE #2 SOLID ALUMINUM.

KEYNOTES:

- SCREEN CONTROL PANEL ;SCC-1. INSTALL SEALOFFS ON ALL CONDUITS. CONTRACTOR TO INSTALL & TERMINATE FIBER PATCH PANEL AND STRATIX SWITCH IN ALLOTTED SPACE WITHIN CONTROL PANEL.
- DUAL LEVEL INDICATOR TRANSMITTERS.
- NEW SCREEN EQUIPMENT. CONTRACTOR TO COORDINATE EXACT ALUMINUM RIGID CONDUIT ROUTING AND FIELD WIRING REQUIREMENTS WITH APPROVED MANUFACTURER SUBMITTALS PRIOR TO COMMENCING CONSTRUCTION. TRANSMIT ANY INCONSISTENCIES TO ENGINEER. INSTALL NEW LIGHTNING PROTECTION SYSTEM AND BOND TO EXISTING MAIN ROOF CONDUCTORS.
- CAPPED, ABANDONED CONDUIT.
- (2)1"C. WITH (20)#14 CONDUCTORS TO PLC 5 VIA 2TJB1.
- NEW ACTUATOR, DISCONNECT, I&C TERMINATION CABINET.
- SCREEN CONTROL PANEL ;SCC-2. EXTEND/REROUTE EXISTING CONDUIT TO PANEL. INSTALL SEALOFFS ON ALL CONDUITS.
- NEW ACTUATOR, DISCONNECT, I&C TERMINATION CABINET & 480V SPLICE BOX.
- (6)#10 + (4)#12 + (2)#12 GRD IN 1"C.
- 5 CONDUCTOR #14 CONTROL CABLE IN 1"C.
- (2) PAIR #16 TSP INSTRUMENTATION CABLE IN 1"C.
- (9) CONDUCTOR #14 CONTROL CABLE IN 1.25"C.
- SURFACE MOUNT ALUMINUM RIGID CONDUITS HIGH ALONG EXTERIOR WALL OF STRUCTURE AND BELOW WALKWAYS. SEPARATE POWER AND I&C CONDUITS 8"MIN.
- (2)CAT6 INDUSTRIAL ETHERNET CABLE IN 2"C.
- FIBER OPTIC CABLE IN EXISTING CONDUIT TO PLC 5 VIA 2TJB1.
- (3)#10 + (1)#10 GRD IN 1"C. SURFACE MOUNT ALUMINUM RIGID CONDUIT ALONG EXTERIOR OF STRUCTURE WALL TO PANELBOARD. SEAL PENETRATION THROUGH WALL WITH NON-SHRINK GROUT.
- #2 SOLID ALUMINUM BOND TO EXISTING LP MAIN ROOF CONDUCTOR. TYPICAL.
- MAIN ROOF CONDUCTOR TO EXISTING LP MAIN ROOF CONDUCTOR. TYPICAL.
- ROOF MOUNTED STREAMER RETARDING AIR TERMINAL. TYPICAL
- RELOCATED MANUAL BAR SCREEN LEVEL TRANSMITTER
- NEW 12 STRAND MULTIMODE FIBER OPTIC CABLE IN 2"C. + (2) SETS OF (24)#14 + #14GRD IN 1"C.
- NEW 12 STRAND MULTIMODE FIBER OPTIC CABLE IN 2"C. + (4) SETS OF (24)#14 + #14GRD IN 1"C.
- NEMA 4X FIBER OPTIC TERMINATION CABINET (FTC) MOUNTED ON ALUMINUM STAND. MAKE PENETRATIONS ON BOTTOM OF ENCLOSURE ONLY.

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03/19/2025

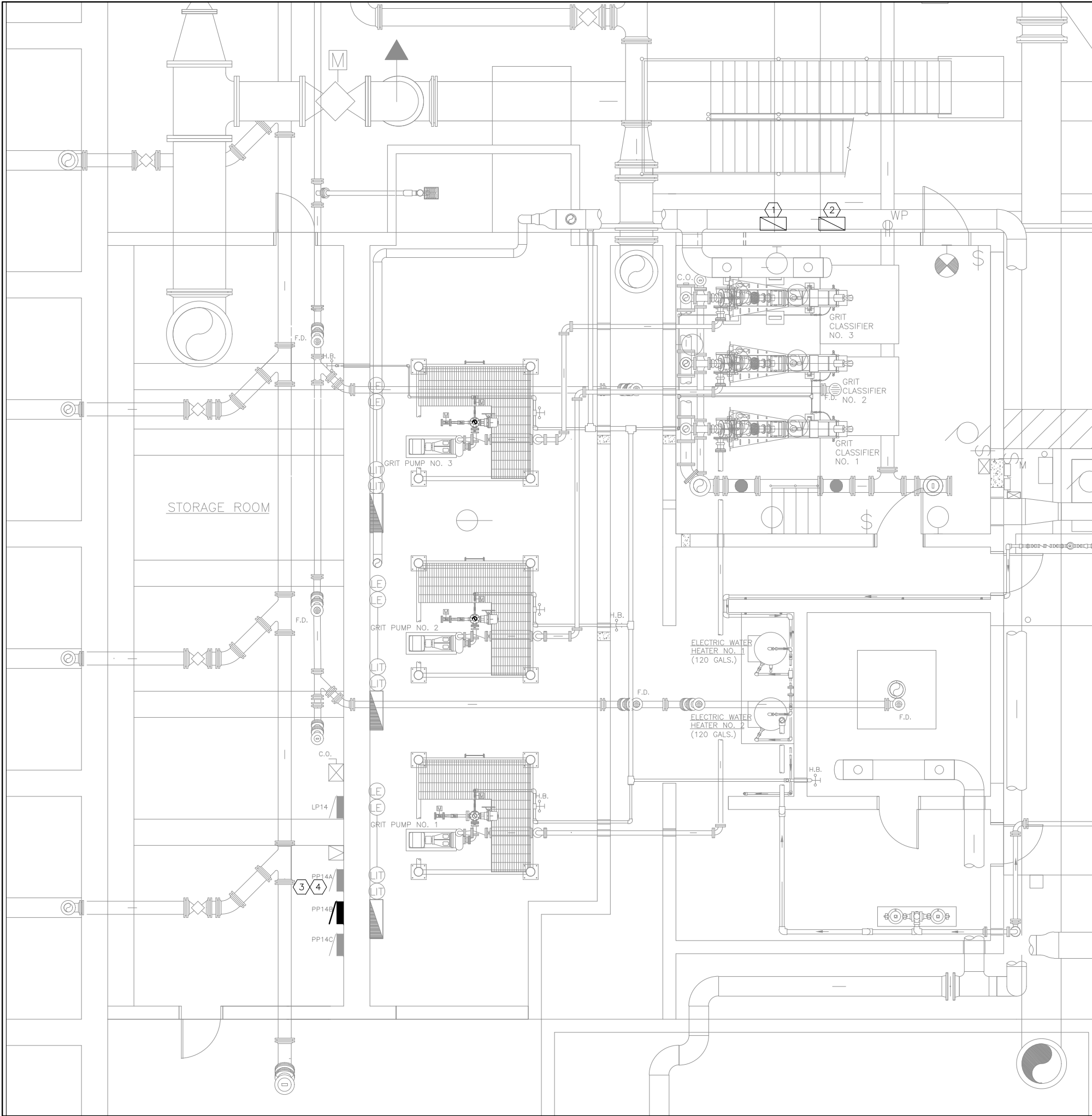
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JM DESIGN	RV DRAWN	JM CHKD
SCALE		
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SHEET E-3

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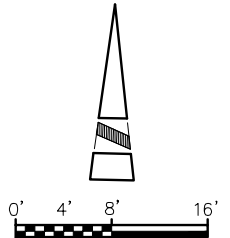


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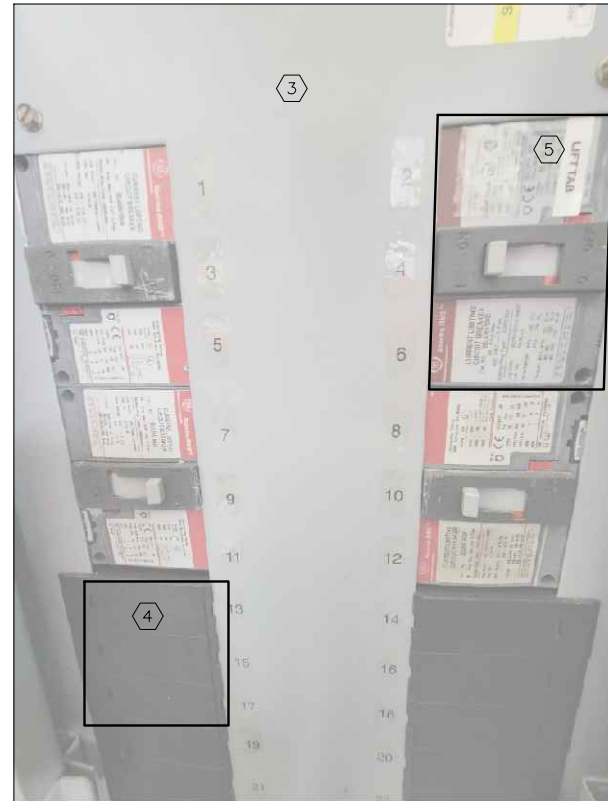
1. ALL EQUIPMENT & DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE WITH SHOP DRAWING FOR EXACT LOCATIONS.

KEYNOTES:

1. EXISTING CONTROL TERMINATION CABINET 2TJB1 TO REMAIN. EXISTING GATE SIGNALS ROUTE THROUGH TERMINATION CABINET TO PLC-5.
2. EXISTING ANALOG TERMINATION CABINET 2TJB2 TO REMAIN. EXISTING GATE SIGNALS ROUTE THROUGH TERMINATION CABINET TO PLC-5.
3. EXISTING PANEL BOARD PP14A TO REMAIN. PROVIDE NEW TYPE WRITTEN PANEL SCHEDULE.
4. PROVIDE NEW 480V-3P, 30AT GE SPECTRA RMS SERIES BREAKER FOR SCC-2 CONTROL PANEL FEED. CONTRACTOR MAY UTILIZE SPARE BREAKER IF AVAILABLE.
5. EXISTING 480V-3P, 30AT GE SPECTRA RMS SERIES BREAKER TO REMAIN. UTILIZE TO FEED SCC-1 CONTROL PANEL.



1/8"=1'-0" FOR 11"X17" SHEET
1/4"=1'-0" FOR 22"X34" SHEET



PANELBOARD PP-14A
N.T.S.

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LOWER LEVEL HEADWORKS POWER & CONTROLS PLAN

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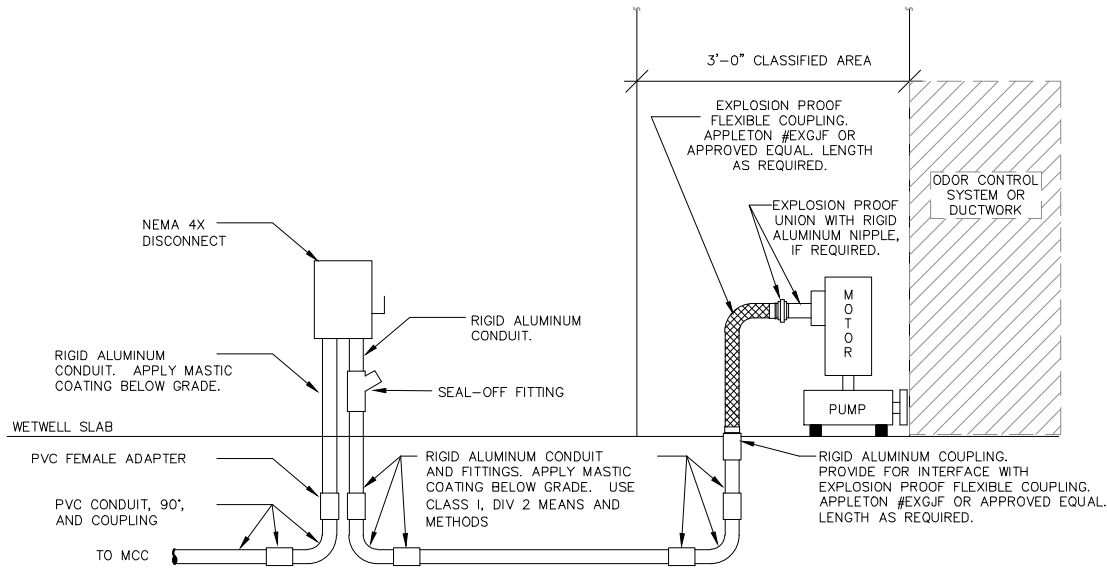
ERNANDO E. FUENTES JR., P.E.
 FL. LICENSE NO. 86514
 03/19/2025

REV.	DESCRIPTION	DATE
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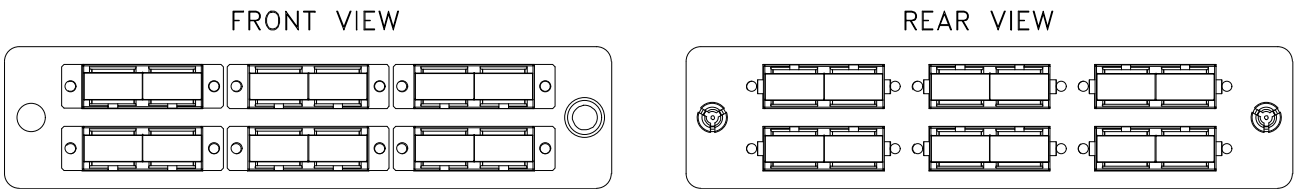
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JM SIGN	RV DRAWN	JM CHKD	
SCALE			
B No. 340793-01-001			
D File		E-4.dwg	
DATE		XX/XX/XXXX	

E-4

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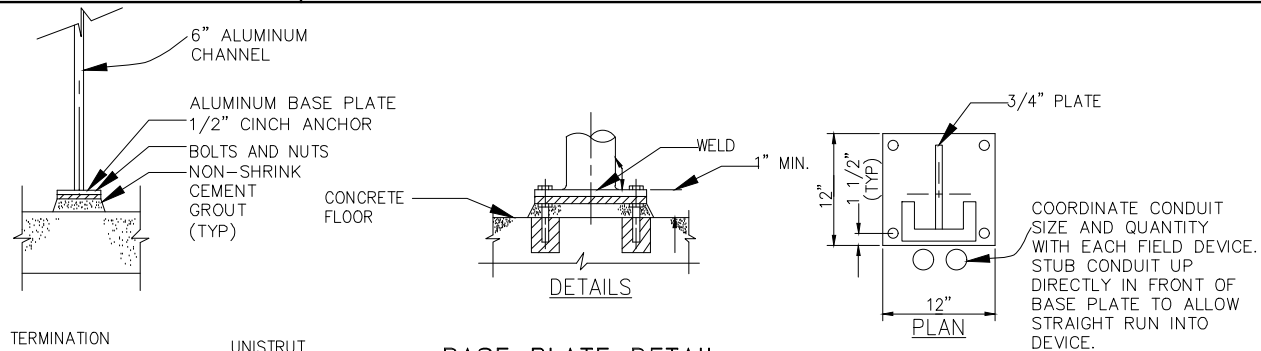
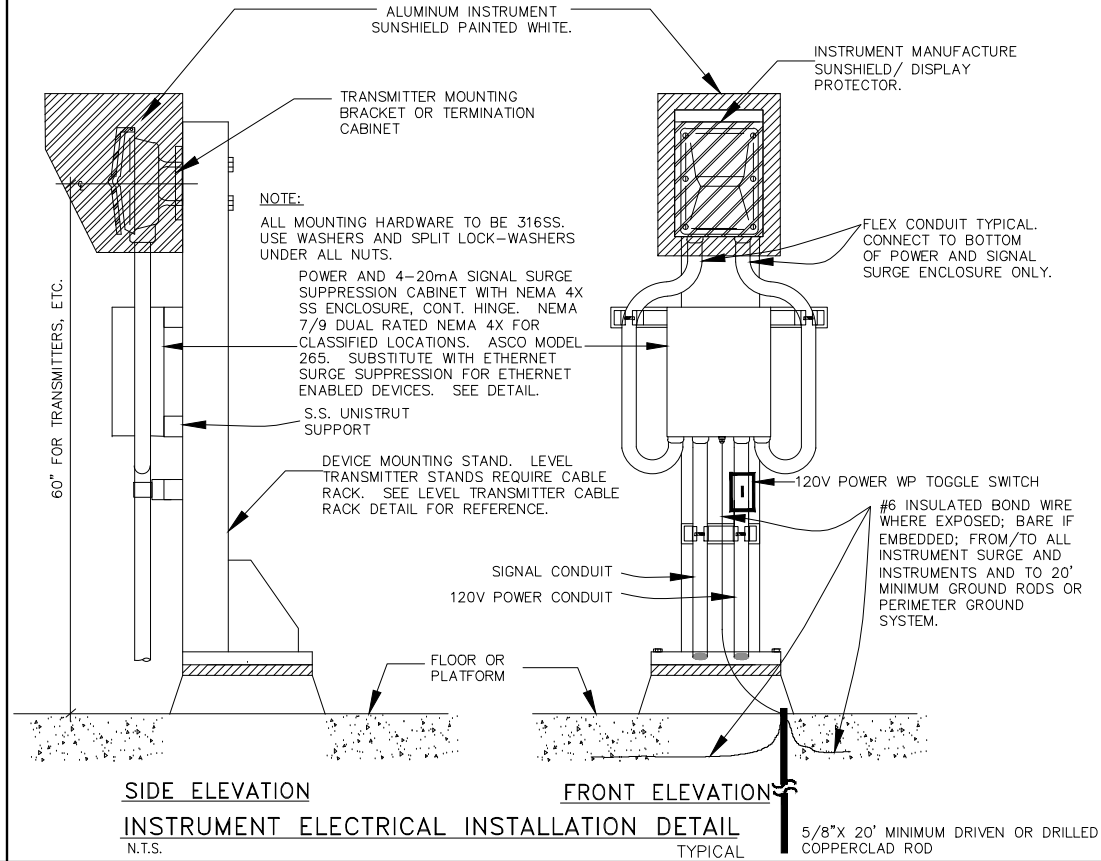
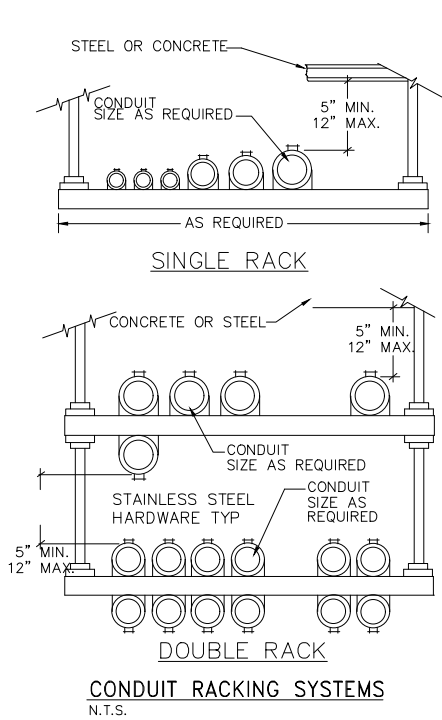
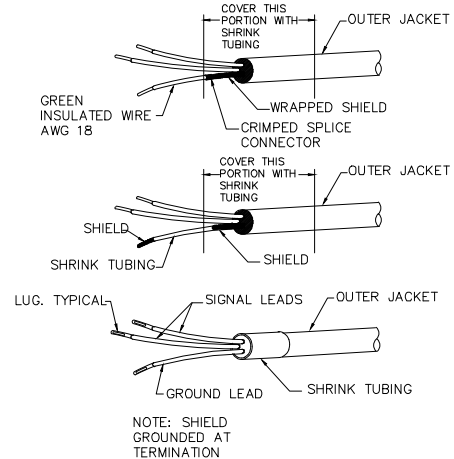
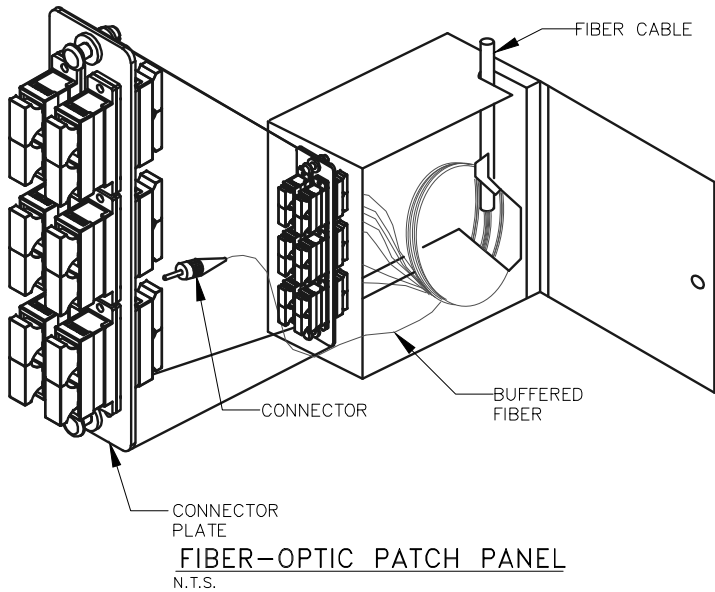


ELECTRICAL INSTALLATION IN CLASSIFIED AREA DETAIL
N.T.S.

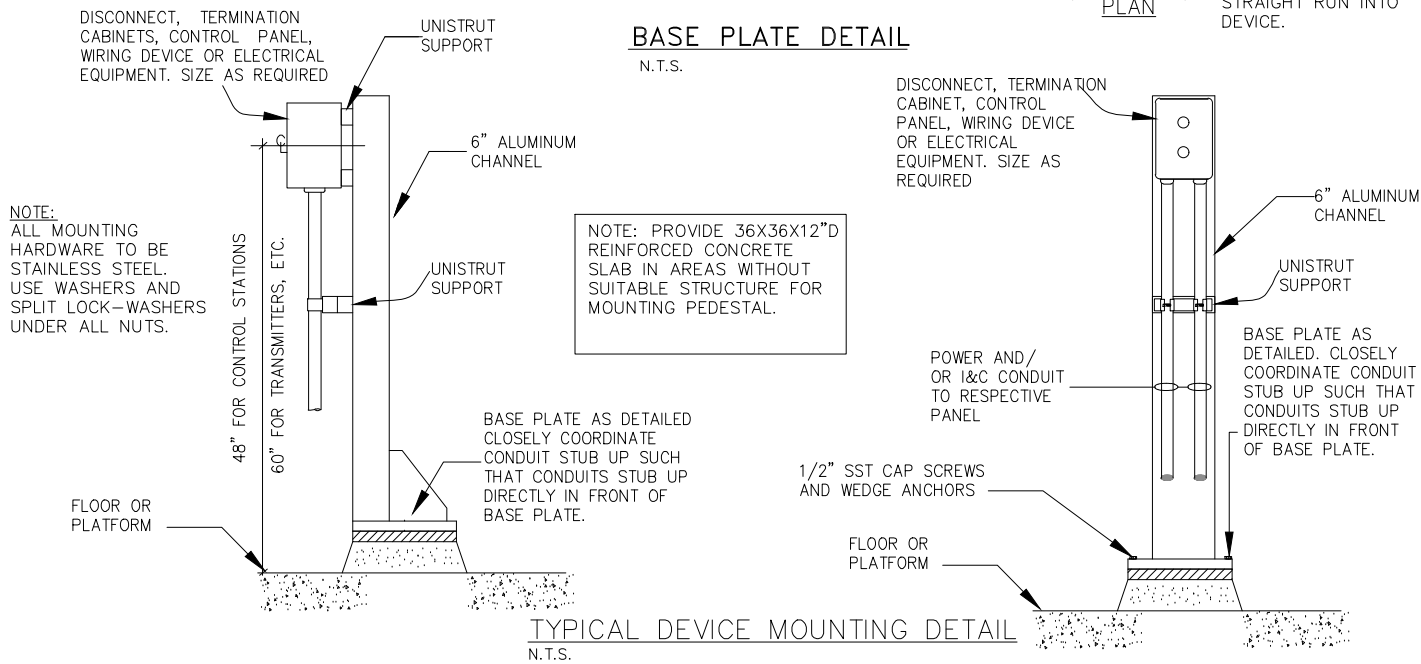


SC ADAPTER DETAIL
N.T.S.

- GENERAL NOTES:
1. TERMINATE ALL FIBERS TO CONNECTOR PLATE INCLUDING SPARES.



BASE PLATE DETAIL
N.T.S.



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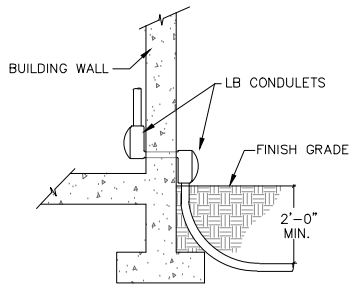
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JM DESIGN	RV DRAWN	JM CHKD	
SCALE			
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CAD File ED-1.dwg			
DATE XX/XX/XXXX			
SHEET ED-1			

SCWRF PRELIMINARY TREATMENT
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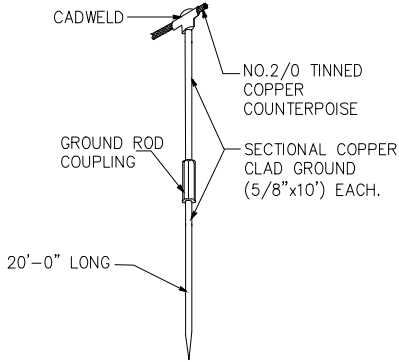
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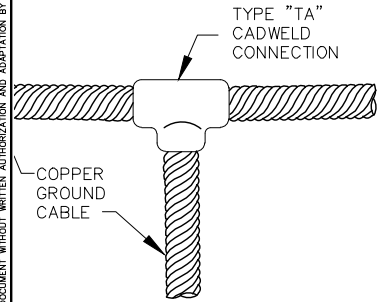
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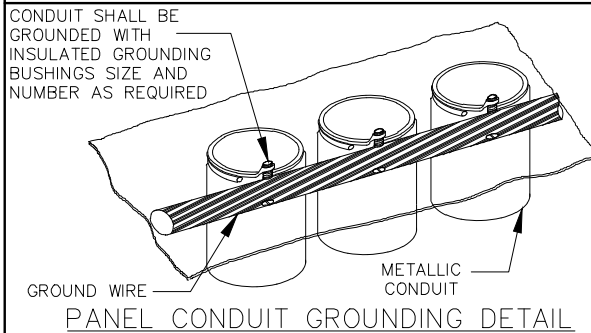
CONDUIT ENTRANCE TO EXISTING FACILITY
N.T.S.



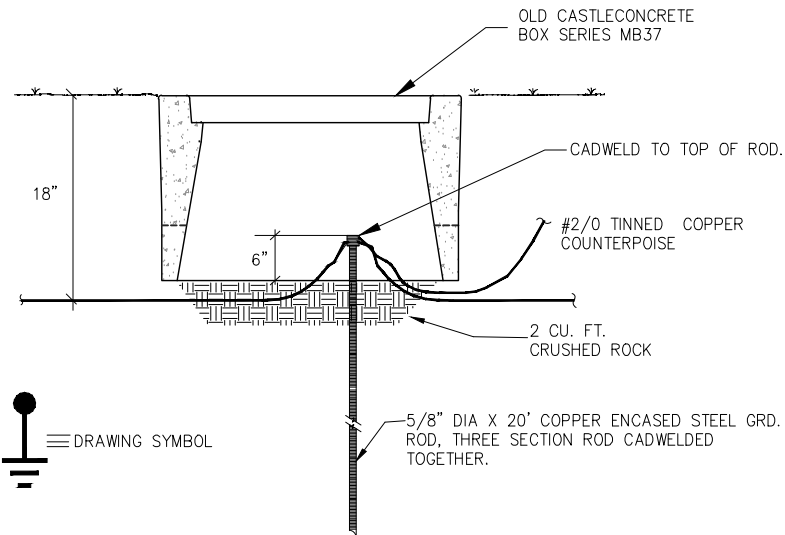
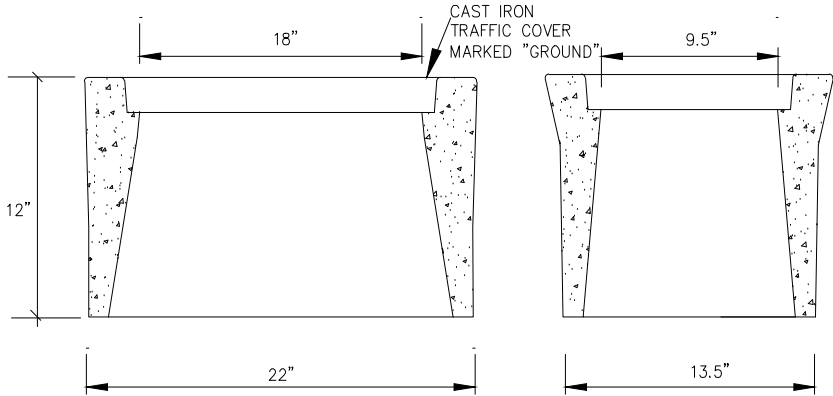
TYPICAL GROUND ROD CONNECTION
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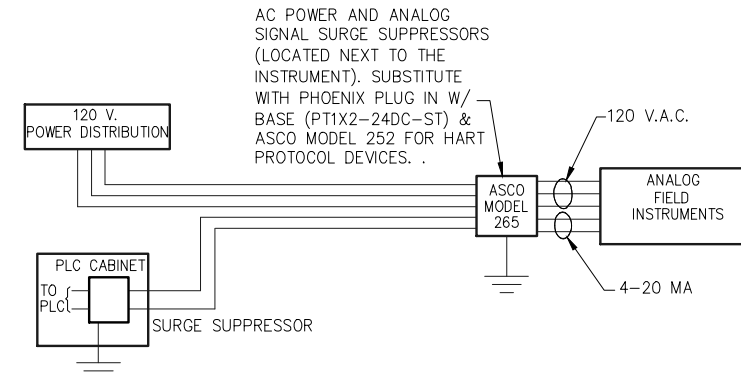
GROUND CABLE CONNECTION
N.T.S.



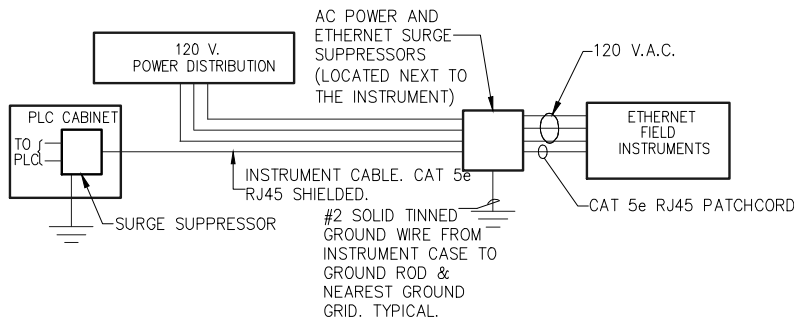
PANEL CONDUIT GROUNDING DETAIL
N.T.S.



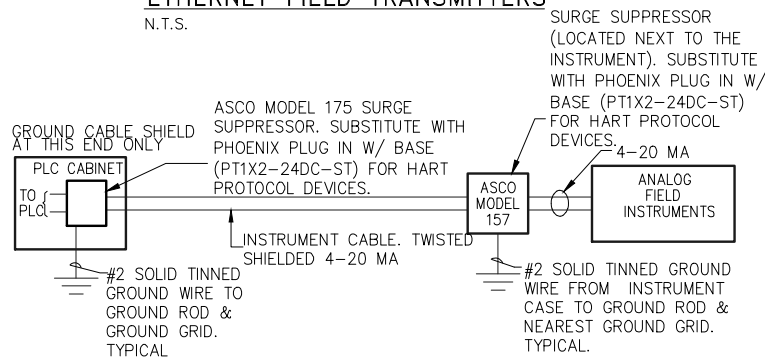
GROUND ROD INSTALLATION DETAIL
N.T.S.



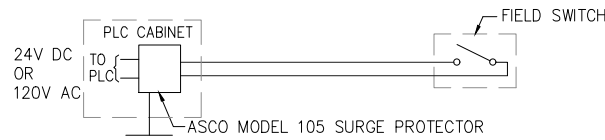
4-WIRE FIELD TRANSMITTERS
N.T.S.



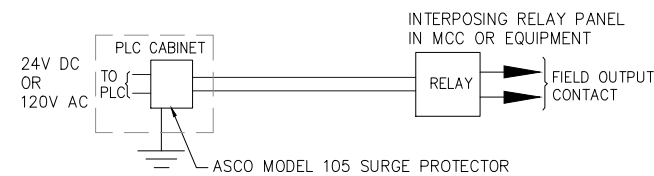
ETHERNET FIELD TRANSMITTERS
N.T.S.



2-WIRE FIELD TRANSMITTERS
N.T.S.

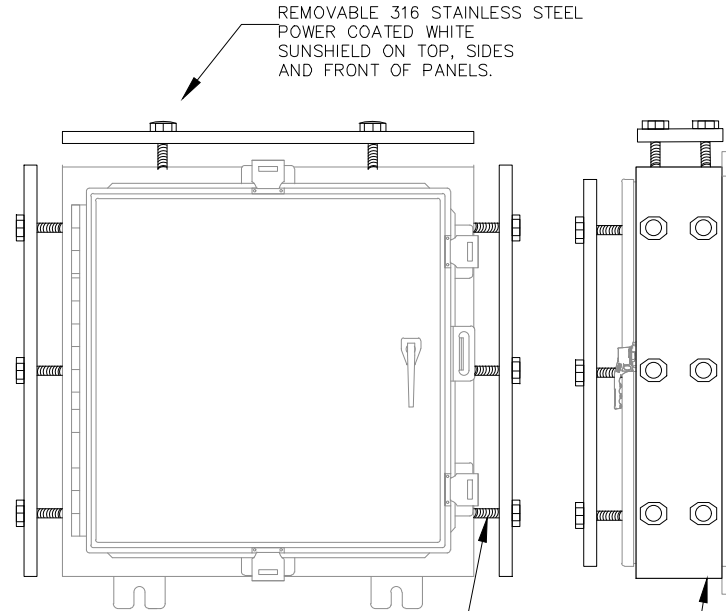


DISCRETE PLC/INPUT CIRCUIT
N.T.S.



DISCRETE PLC/OUTPUT CIRCUIT
N.T.S.

INSTRUMENTATION GROUNDING & SURGE PROTECTION
N.T.S.

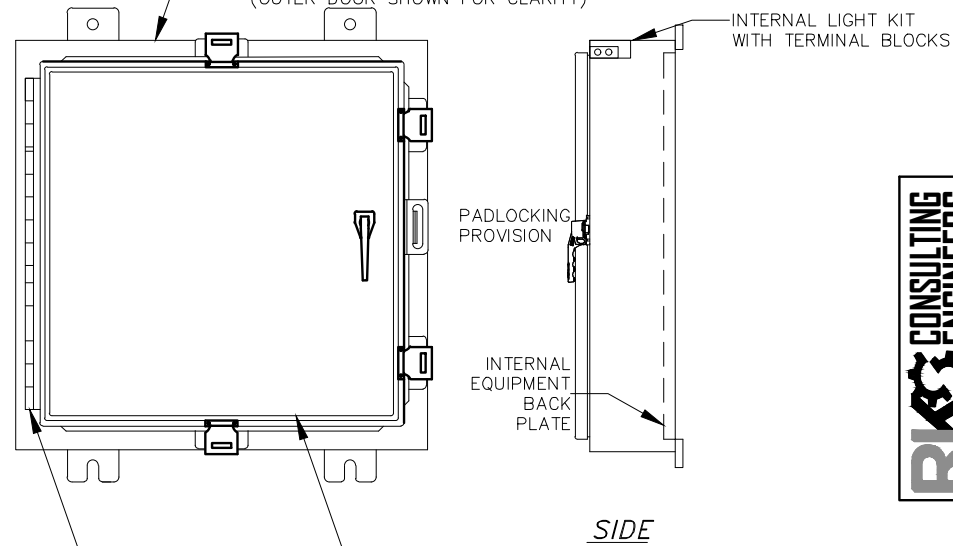


SUNSHIELDS ARE REQUIRED TO BE PROVIDED BY THE ENCLOSURE MANUFACTURER. ENCLOSURE SHALL BE EQUIPPED WITH THREADED STAINLESS STEEL STAND-OFFS WELDED TO ENCLOSURE EXTERIOR. SUNSHIELDS TO BE SHIPPED LOOSE FOR FIELD INSTALLATION WITH STAINLESS STEEL HARDWARE. ENCLOSURE MANUFACTURER SHALL PROVIDE ALL STAINLESS HARDWARE REQUIRED TO FIELD MOUNT SUNSHIELDS TO ENCLOSURES.

REMOVABLE 316 STAINLESS STEEL POWER COATED WHITE SUNSHIELD ON TOP, SIDES AND FRONT OF PANELS.

TYPICAL CABINET SUNSHIELD DETAIL
N.T.S.

SIZE VARIES-REFERENCE SPECIFIC USE DETAILS FOR MINIMUM SIZE. NEMA 4X 316SS, IN NON-CLASSIFIED LOCATIONS AND NEMA7/9 DUAL RATED NEMA 4X FOR CLASSIFIED LOCATIONS, PER NFPA820, ENCLOSURE POWDER COATED WHITE WITH 3 POINT STAINLESS STEEL PAD LOCKING VAULT HANDLE, HASP AND STAPLE PROVIDED FOR PADLOCKING. (OUTER DOOR SHOWN FOR CLARITY)



TYPICAL CABINET DETAIL
N.T.S.

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