

C:\Users\SISOUP\DC\ACCDocs\Jacobs\US_FL_D3971300_Pensacola Gateway\Project Files\30 WIP\CIN\00-G-000_D3971300.dwg, Nov 03, 2025 - 3:01:17PM, SISOUP



INDEX OF PLANS

DISCIPLINE ORDER

- COVER SHEET
- SIGNATURE SHEET (1)
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- ROADWAY
- MAINTENANCE OF TRAFFIC (MOT)
- INTELLIGENT TRANSPORTATION SYSTEMS (ITS)
- TOLLING TECHNOLOGY
- STRUCTURAL

BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA
ENGINEERING DEPARTMENT
CONSTRUCTION MANAGEMENT DIVISION

PLANS PROPOSED FOR
PENSACOLA BEACH
GATEWAY
IMPROVEMENTS
(TOLL PLAZA REPLACEMENT
AND ENHANCEMENTS)

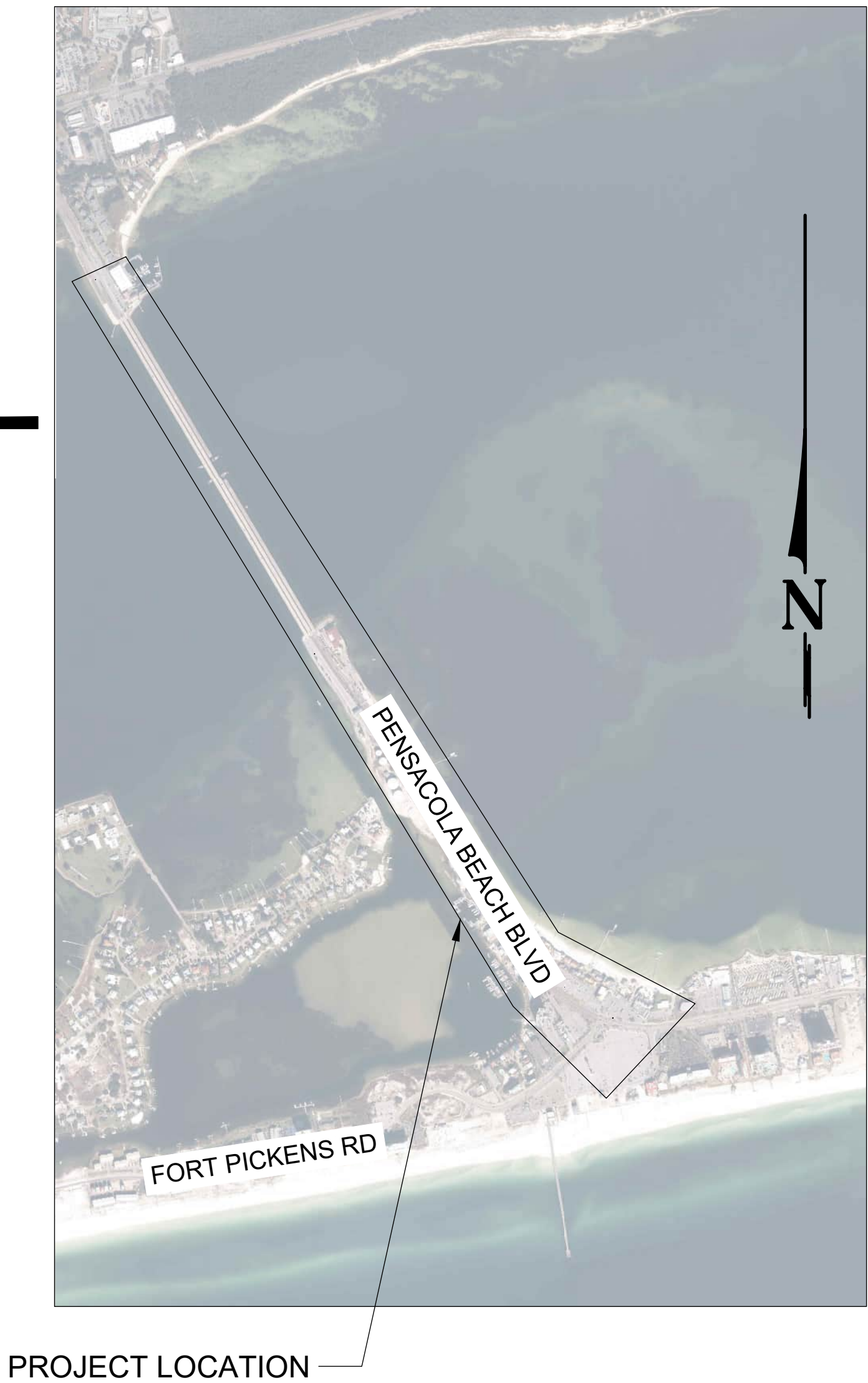
NOVEMBER 2025
RELEASED FOR
CONSTRUCTION PLANS

COMMISSIONERS

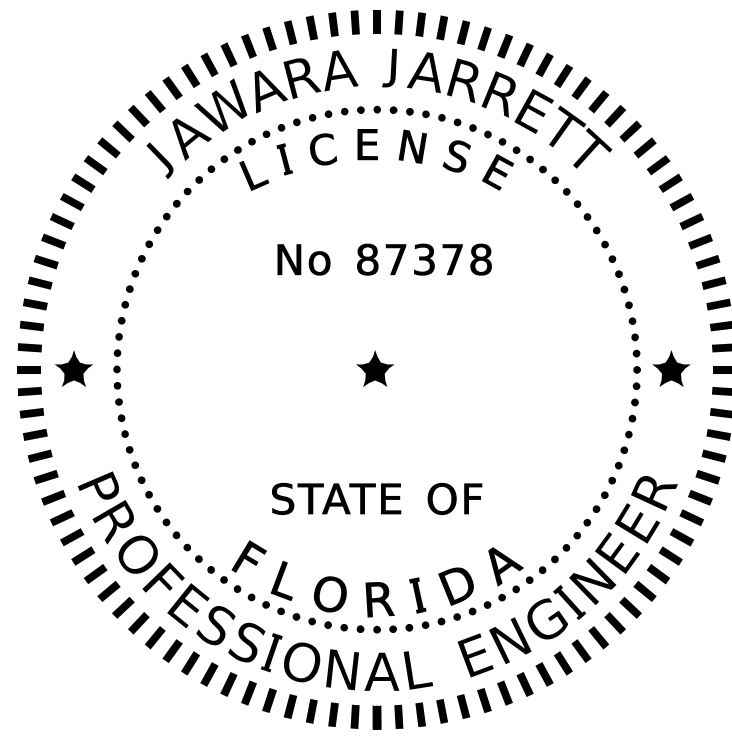
- | | |
|----------------|------------------------------|
| DISTRICT ONE | STEVE STROBERGER |
| DISTRICT TWO | MIKE KOHLER, CHAIRMAN |
| DISTRICT THREE | LUMON MAY |
| DISTRICT FOUR | ASHLEE HOFBERGER, VICE CHAIR |
| DISTRICT FIVE | STEVEN BARRY |

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICAPABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.



PROJECT MANAGER: NICK CHAUVIN		
SECTION / TOWNSHIP / RANGE: 10-3S-29W	DISTRICT: 4	
PROJECT ENGINEER: LORI RENTSCHLER	FDOT FIN: 454828-1-34-01	
SIGNATURE:	DATE: 9/2025	



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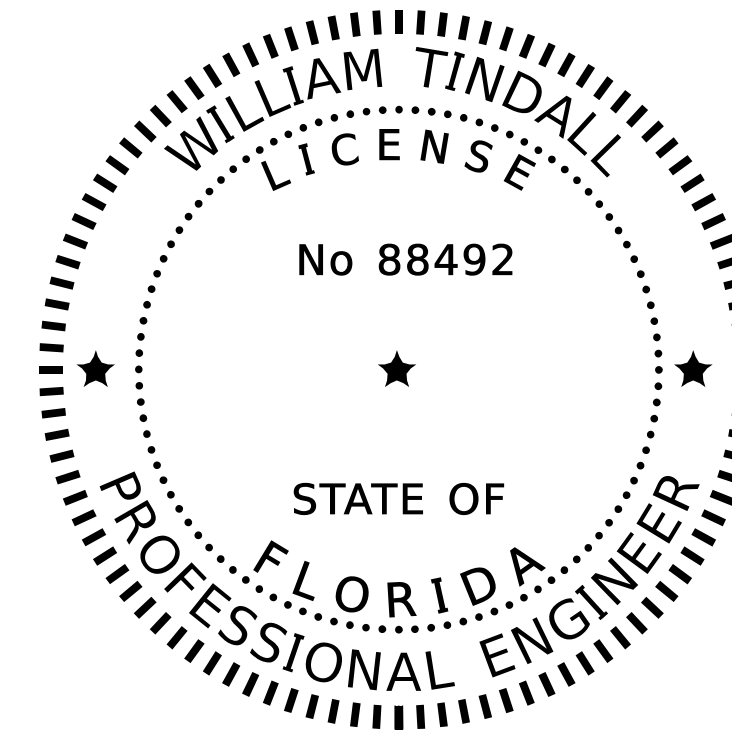
ON THE DATE ADJACENT TO THE SEAL

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JACOBS ENGINEERING GROUP INC.
101 N. MONROE STREET, SUITE 1020
TALLAHASSEE, FL 32301
JAWARA JARRETT, P.E. NO. 87378
ROADWAY EOR

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	COVER SHEET
2	SIGNATURE SHEET
5	GENERAL NOTES
6	DRAWING LAYOUT
7	HORIZONTAL CONTROL
8 - 9	EXISTING CONDITIONS AND DEMOLITION PLANS
10	TYPICAL SECTIONS
11 - 13	PLAN AND PROFILE PLANS
14	SECTION VIEW
15 - 16	SIGNING AND PAVEMENT MARKING PLANS



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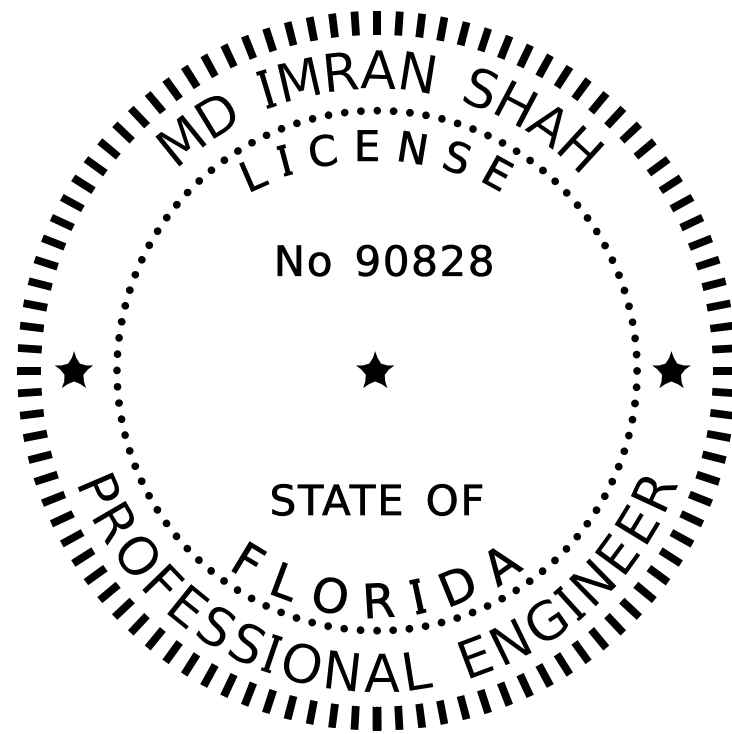
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JACOBS ENGINEERING GROUP INC.
5401 W. KENNEDY BOULEVARD, SUITE 300
TAMPA, FL 33602
WILLIAM TINDALL, P.E. NO. 88492
MOT EOR

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

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
2	SIGNATURE SHEET
17	GENERAL NOTES
18 - 22	TEMPORARY TRAFFIC CONTROL PLAN PHASE I



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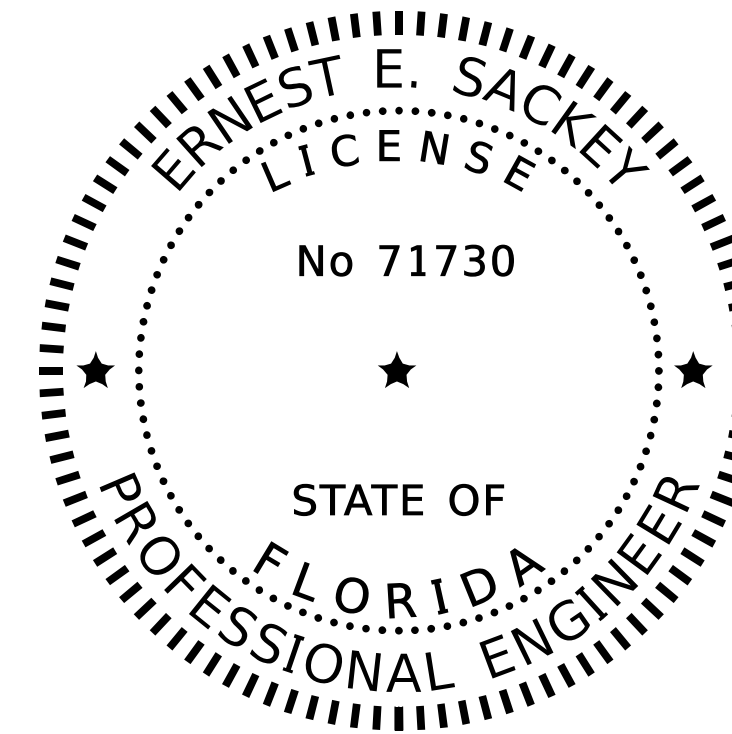
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JACOBS ENGINEERING GROUP INC.
200 ORANGE AVE. SUITE 900
ORLANDO, FL 32801
MD IMRAN SHAH, P.E. NO. 90828
ITS EOR

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<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
23	GENERAL NOTES AND LEGEND
24	PROJECT LAYOUT
25	POLE/DEVICE DATA SHEET
26 - 29	ITS PLANS
30	CCTV & RADIO INSTALLATION DETAILS
31 - 32	CABINET DETAILS & WIRING DIAGRAMS
33	ELECTRONIC ROUTE MARKER DETAIL
34	BRIDGE CONDUIT LAYOUT DETAILS
35	FIBERGLASS EXPANSION JOINT & HANGER DETAILS
36	SPLICING DIAGRAM



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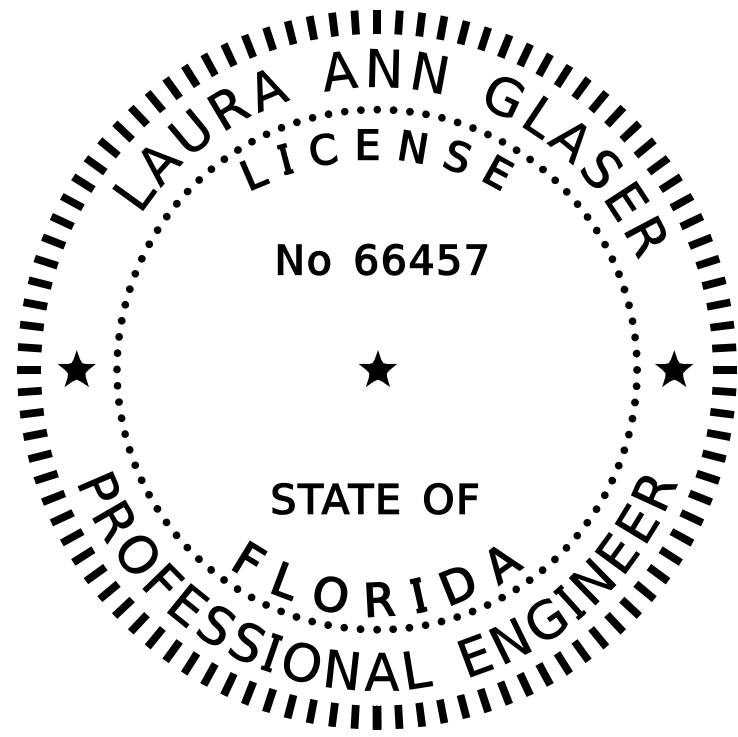
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JACOBS ENGINEERING GROUP INC.
200 ORANGE AVE. SUITE 900
ORLANDO, FL 32801
ERNEST E. SACKEY, P.E. NO. 71730
TOLLING TECHNOLOGY EOR

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
38	GENERAL NOTES AND LEGEND
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40	ENLARGED CIVIL SITE PLAN
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47	DRY WELL & AC CONDENSATE PROTECTION
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49	GANTRY CONDUIT PLANS
50	TOLL EQUIPMENT CABLE TRAY DETAILS
51	GANTRY LIGHTING PROTECTION DETAILS
52	FIBER SPLICING DIAGRAM



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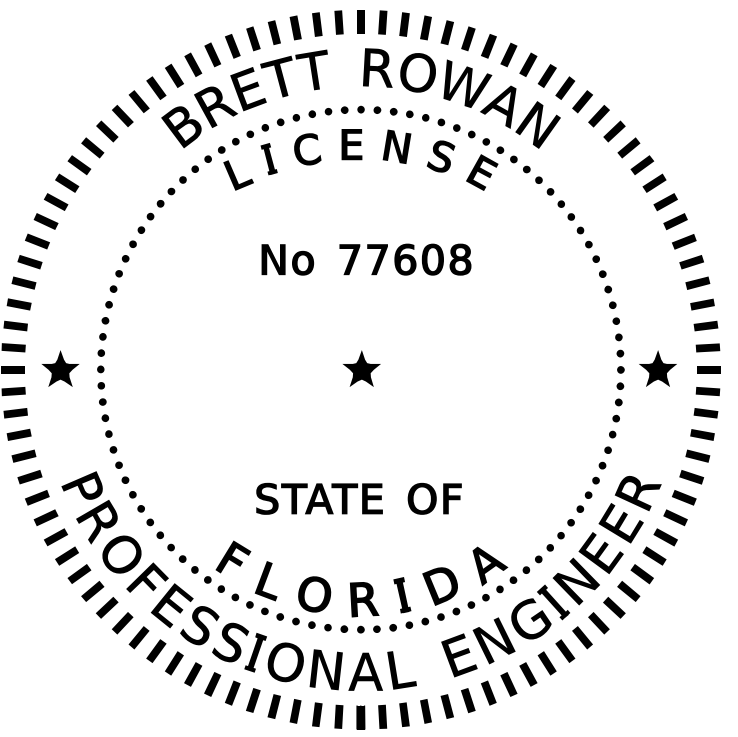
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JACOBS ENGINEERING GROUP INC.
200 ORANGE AVE. SUITE 900
ORLANDO, FL 32801
LAURA ANN GLASER, P.E. NO. 66457
ELECTRICAL EOR

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
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41	ELECTRICAL SITE PLAN
44	POWER RISER DIAGRAM
45	POWER DISTRIBUTION DETAILS
46	GROUNDING AND LIGHTING DETAILS



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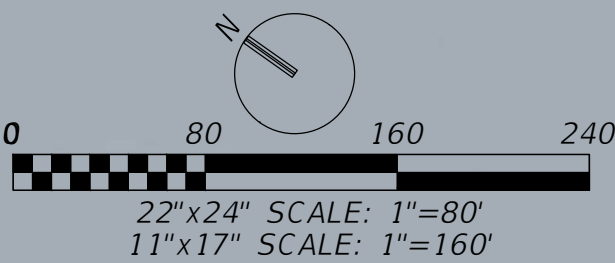
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JACOBS ENGINEERING GROUP INC.
200 ORANGE AVE. SUITE 900
ORLANDO, FL 32801
BRETT ROWAN, P.E. NO. 77608
STRUCTURAL EOR

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
3	SIGNATURE SHEET
53 - 54	GANTRY GENERAL NOTES
55	GANTRY SITE FOUNDATION LAYOUT
56	GANTRY SITE INTEGRAL WALL FOUNDATION
57	GANTRY SITE BORING LOCATION PLAN
58	GANTRY SITE REPORT BORINGS
59	GANTRY SB FRAMING PLAN
60	GANTRY SOUTHBOUND ELEVATION
61	GANTRY SITE TOLL SITE BARRIER WALL
62	GANTRY TYPICAL SECTION
63	GANTRY EQUIPMENT FRAMING SECTION
64	GANTRY UPRIGHT HANDHOLE DETAILS
65 - 67	GANTRY EQUIPMENT FRAMING
68 - 70	GANTRY J-ARM DETAILS
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73 - 74	GANTRY U-BOLT DETAIL
75	GANTRY WIREWAY MOUNTING DETAILS
76	GANTRY STRUCTURE DATA TABLES
77	EQUIPMENT PLATFORM PLANS
78 - 79	EQUIPMENT PLATFORM SECTIONS & DETAILS



DRAWING C-101 UPPER

DRAWING C-101 LOWER

DRAWING C-102 UPPER

BEGIN PROJECT
BEGIN CONSTRUCTION
STA 300+00

END PROJECT
END CONSTRUCTION
STA 313+49

DRAWING C-201

DRAWING C-202

DRAWING C-203

Jacobs

CIVIL
DRAWING LAYOUT

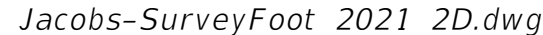
PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	C-002
SHEET	6 of 79

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SHEET NOTES:

- ALL EXISTING UTILITIES ARE TO BE PROTECTED AND REMAIN DURING DEMOLITION UNLESS OTHERWISE NOTED.
- CONTRACTOR TO NOTIFY FDEP A MINIMUM OF TEN (10) DAYS PRIOR TO TOLL BOOTH DEMOLITION.

A

B

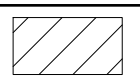
C

D

SHEET KEYNOTES:

- TOLL BOOTH STRUCTURE TO BE DEMOLISHED IN THE OVERNIGHT HOURS FROM SUNDAY 10PM THROUGH FRIDAY 6AM DURING AT MOST TWO CONSECUTIVE NIGHTS. TRAFFIC MUST BE RESTORED EACH MORNING BY 6AM. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS FOR BUILDING REMOVAL AND UTILITY TERMINATION. TOLL BOOTH STRUCTURE PLANS ARE AVAILABLE AS AN ATTACHMENT TO THE BID DOCUMENTS.

LEGEND

-  LIMITS OF MILLING
-  LIMITS OF DEMOLITION

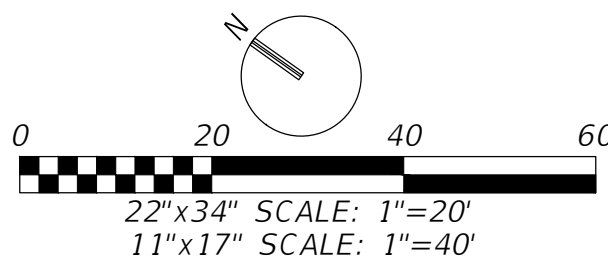
DEMOLISH TRAFFIC SEPARATORS
FOR MAINTENANCE OF TRAFFIC
SEE MOT SHEETS FOR DETAILS

REMOVE EXIST. PAVEMENT MARKING
THAT CONFLICTS WITH MOT PLANS

DEMOLISH LIMITS OF MEDIAN
FOR MAINTENANCE OF TRAFFIC
SEE MOT SHEETS FOR DETAILS

PENSACOLA BEACH BLVD
(CR 399)

MATCHLINE - SEE LOWER WINDOW



REMOVE EXIST. GUARDRAIL

EXIST. 6" WATER MAIN TO BE
ABANDONED AND DISCONNECTED
BACK TO CORPORATION STOP

3883 SQ FT OF DEMOLITION

PENSACOLA BEACH BLVD
(CR 399)

MATCHLINE - SEE DRAWING C-101

777 SQ FT OF DEMOLITION

EXIST. LIGHT POLE TO BE REMOVED
AND RELOCATED BY FPL

Jacobs

CIVIL
EXISTING CONDITIONS AND
DEMOLITION PLANS
STA 3000+00 TO STA 311+00

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBA COUNTY, FLORIDA

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SHEET NOTES:

1.

ALL EXISTING UTILITIES ARE TO BE PROTECTED AND REMAIN DURING DEMOLITION UNLESS OTHERWISE NOTED.

LEGEND

LIMITS OF MILLING

LIMITS OF DEMOLITION

Jacobs

CIVIL

EXISTING CONDITIONS AND DEMOLITION PLANS

STA 311+00 TO STA 313+50

PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE

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DATE: SEPT 2025

PROJ: D3971300

DWG: C-101

SHEET: 9 of 79

NO. DATE DSGN

REVISION

BY APVD

CHK

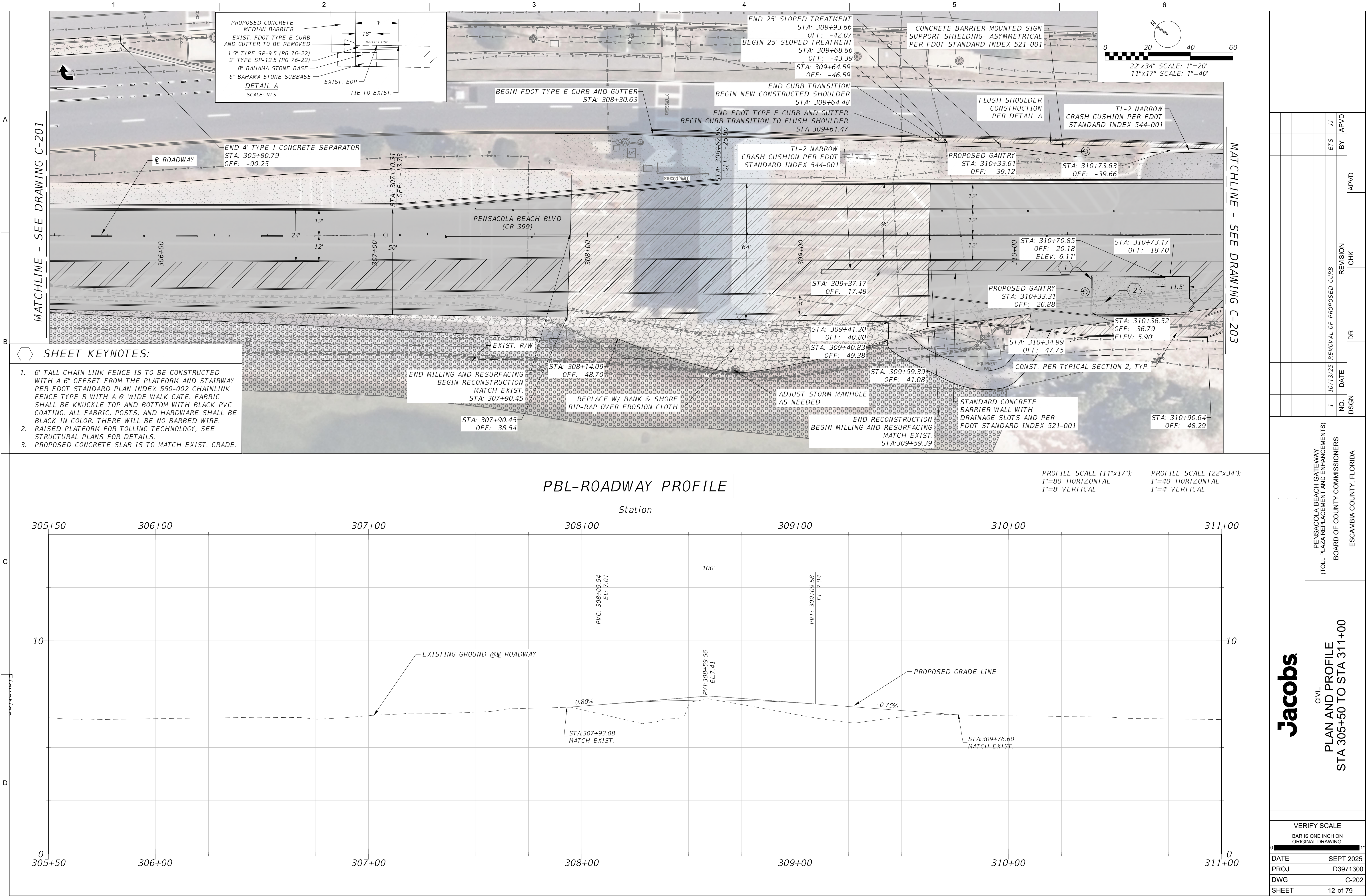
DR

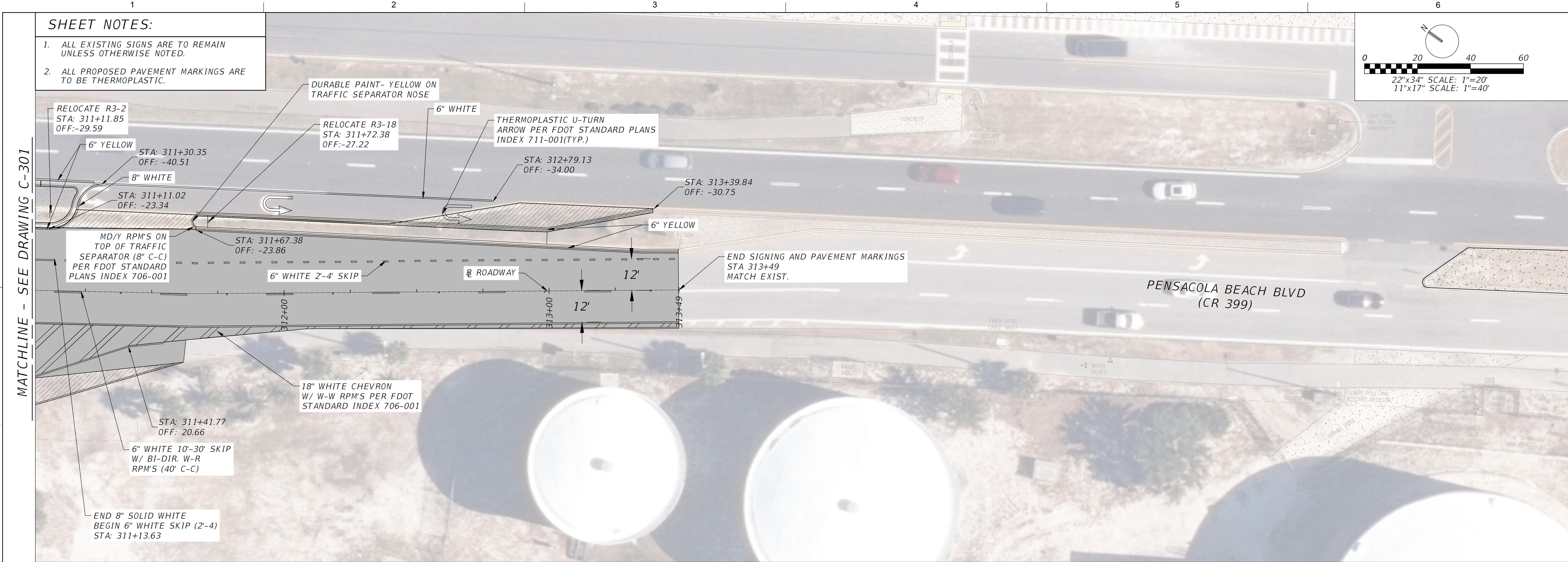
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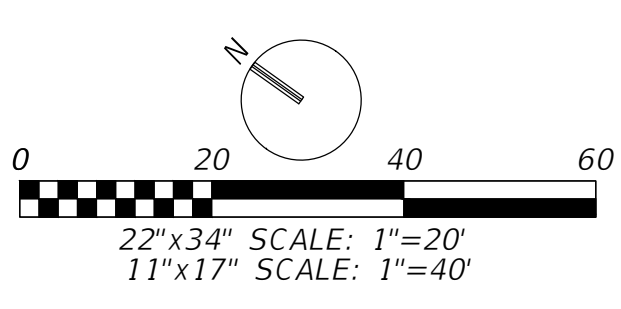




- SHEET NOTES:
1.

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED.
2.

ALL PROPOSED PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC.



MATCHLINE - SEE DRAWING C-301

Jacobs CIVIL SIGNING AND PAVEMENT MARKINGS STA 311+00 TO STA 313+50		PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS) BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA		NO.		DATE		DR		REVISION		BY		APVD	
				DSGN						CHK					
VERIFY SCALE															
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DATE				SEPT 2025											
PROJ				D3971300											
DWG				C-302											
SHEET				16 of 79											

GENERAL NOTES:

1.

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE 2025-26 FDOT STANDARD PLANS, THE MUTCD 11TH EDITION (WITH REVISIONS) AND THESE PLANS.
2.

DETOUR SPEED LIMIT SHALL BE POSTED 25 MPH AND EACH END OF DETOUR SHALL BE ILLUMINATED DURING MAINLINE CLOSURE PERIOD.
3.

CONTRACTOR SHALL PERFORM FORMAL TEMPORARY TRAFFIC CONTROL INSPECTIONS AND SHALL IMMEDIATELY REPLACE ALL EQUIPEMENT AND DEVICES NOT CONFORMING TO FDOT AND MUTCD STANDARDS. THESE INSPECTIONS SHALL BE PREFORMED AT LEAST WEEKLY OR MORE FREQUENTLY IF DIRECTED BY THE ENGINEER.
4.

LANE CLOSURE RESTRICTIONS ARE LISTED BELOW:

NO LANE CLOSURES 6:00AM TO 10:00PM MONDAY THROUGH THURSDAY
NO LANE CLOSURES FROM 6:00AM FRIDAY THROUGH 10:00PM SUNDAY
5.

TEMPORARY PAVEMENT AS CALLED FOR IN THESE PLANS OR ADDED BY THE CONTRACTOR SHALL COMPRISE A MINIMUM OF 2 INCHES OF SUPERPAVE ASPHALT AND 6 INCHES OF LIME ROCK (LBR 40). THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY PAVEMENT IN A SAFE, DRIVABLE CONDITIONS THROUGHOUT CONSTRUCTION.
6.

THE NEW GANTRY AND EQUIPEMENT SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO REMOVAL OF THE EXISTING BUILDING AND TOLLING SYSTEM.
7.

CLOSURES ARE TO OCCUR OVERNIGHT ONLY WITH TRAFFIC RETURNED THROUGH THE TOLL FACILITY DURING THE DAY.
8.

VARIABLE MESSAGE BOARDS ARE TO BE POSTED 30 DAYS IN ADVANCE OF CONSTRUCTION TO INFORM THE PUBLIC OF THE PENDING PROJECT DETOUR.

PHASE NOTES:

PHASE I - CONSTRUCT THE TEMPORARY PAVEMENT FOR THE DIVERSION.

1.

PLACE WORK ZONE SIGNS USING STANDARD INDEX 600 AND INDEX 613.
2.

CLOSE THE OUTSIDE NORTHBOUND LANE ALONG PENSACOLA BEACH BLVD. WHERE TEMPORARY PAVEMENT IS PROPOSED NORTH AND SOUTH OF THE TOLL PLAZA. CLOSE THE INSIDE SOUTHBOUND LANE ALONG PENSACOLA BEACH BLVD. WHERE TEMPORARY PAVEMENT IS PROPOSED NORTH AND SOUTH OF THE TOLL PLAZA. CLOSE THE LEFT TURN LANE AND RIGHT TURN LANE ALONG PENSACOLA BEACH BLVD. JUST NORTH AND SOUTH OF THE TOLL PLAZA.
3.

REMOVE PORTION OF TRAFFIC SEPARATORS AND MEDIAN WHERE TEMPORARY PAVEMENT IS PROPOSED.
4.

INSTALL TEMPORARY PAVEMENT.
5.

UPON COMPLETION, REMOVE ALL TTCP DEVICES AND SIGNS.

PHASE II - CONSTRUCT THE PROPOSED TOLL GANTRY, REMOVE THE EXISTING TOLL PLAZA BUILDING, AND COMPLETE ROADWAY IMPROVEMENTS WITHIN THE DIVERSION LIMITS.

1.

INSTALL ALL TEMPORARY TRAFFIC CONTROL AS SHOWN IN THE PHASE II PLANS.
2.

SHIFT TRAFFIC TO DIVERSION UTILIZING THE TEMPORARY PAVEMENT CONSTRUCTED IN PHASE I.
3.

ESCO DEPUTY SHALL BE PLACED AT EACH TRANSITION TO DIRECT TRAFFIC AS NECESSARY TO MINIMIZE DISRUPTION TO THE TRAVELING PUBLIC WHILE PROTECTING WORKER SAFETY.
4.

UPON COMPLETION, REMOVE ALL TTCP DEVICES AND SIGNS.

PHASE III - COMPLETE THE REMAINING ROADWAY IMPROVEMENTS.

1.

PLACE WORK ZONE SIGNS USING STANDARD INDEX 613.
2.

COMPLETE THE CONSTRUCTION OF ROADWAY IMPROVEMENTS WITH LANE CLOSURES PER STANDARD INDEX 613.
3.

PLACE FINAL ASPHALT COURSE.
4.

AFTER MINIMUM 30-DAY ASPHALT CURING PERIOD, PLACE FINAL THERMOPASTIC PAVEMENT MARKINGS.
5.

UPON COMPLETION, REMOVE ALL TTCP DEVICES AND SIGNS.

BRIDGE LANE CLOSURE

1.

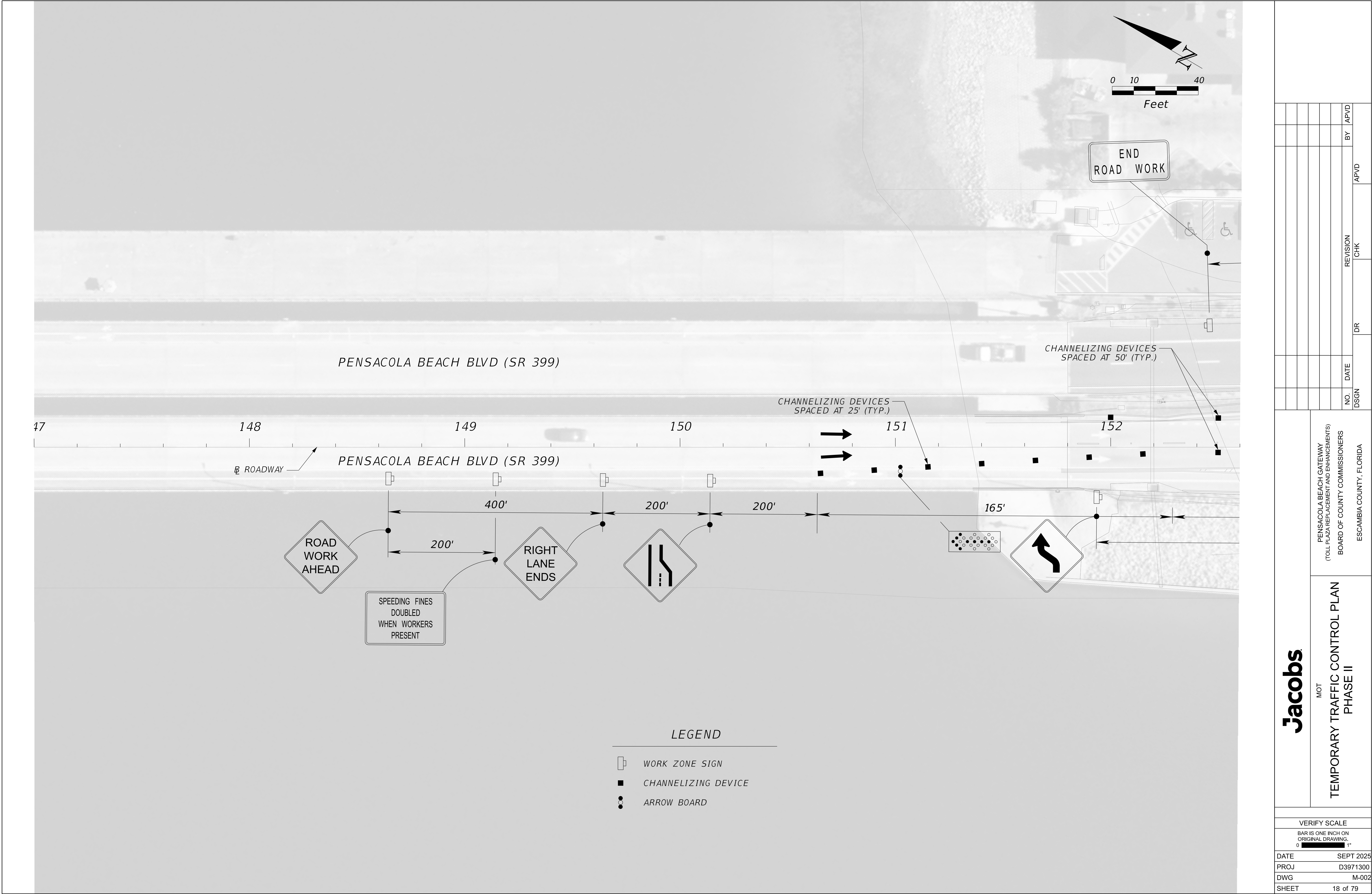
ALL TTCP DEVICES AND SIGNS SHALL BE PLACED PER STANDARD INDEX 661.
3.

ALL EXISTING BIKE/PED ACCESS SHALL BE MAINTAINED DURING THE LANE CLOSURE.
4.

LANE CLOSURE RESTRICTIONS ARE LISTED BELOW:

LANE CLOSURES ALLOWED BETWEEN 8:00AM TO 5:00PM MONDAY THROUGH FRIDAY
NO LANE CLOSURES ON WEEKENDS
5.

ALL TTCP DEVICES AND SIGNS SHALL BE REMOVED BY 5PM DAILY TO REOPEN BOTH SOUTHBOUND LANES.



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MOT
TEMPORARY TRAFFIC CONTROL PLAN
PHASE II

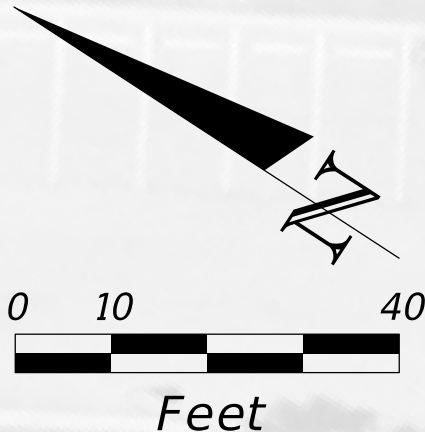
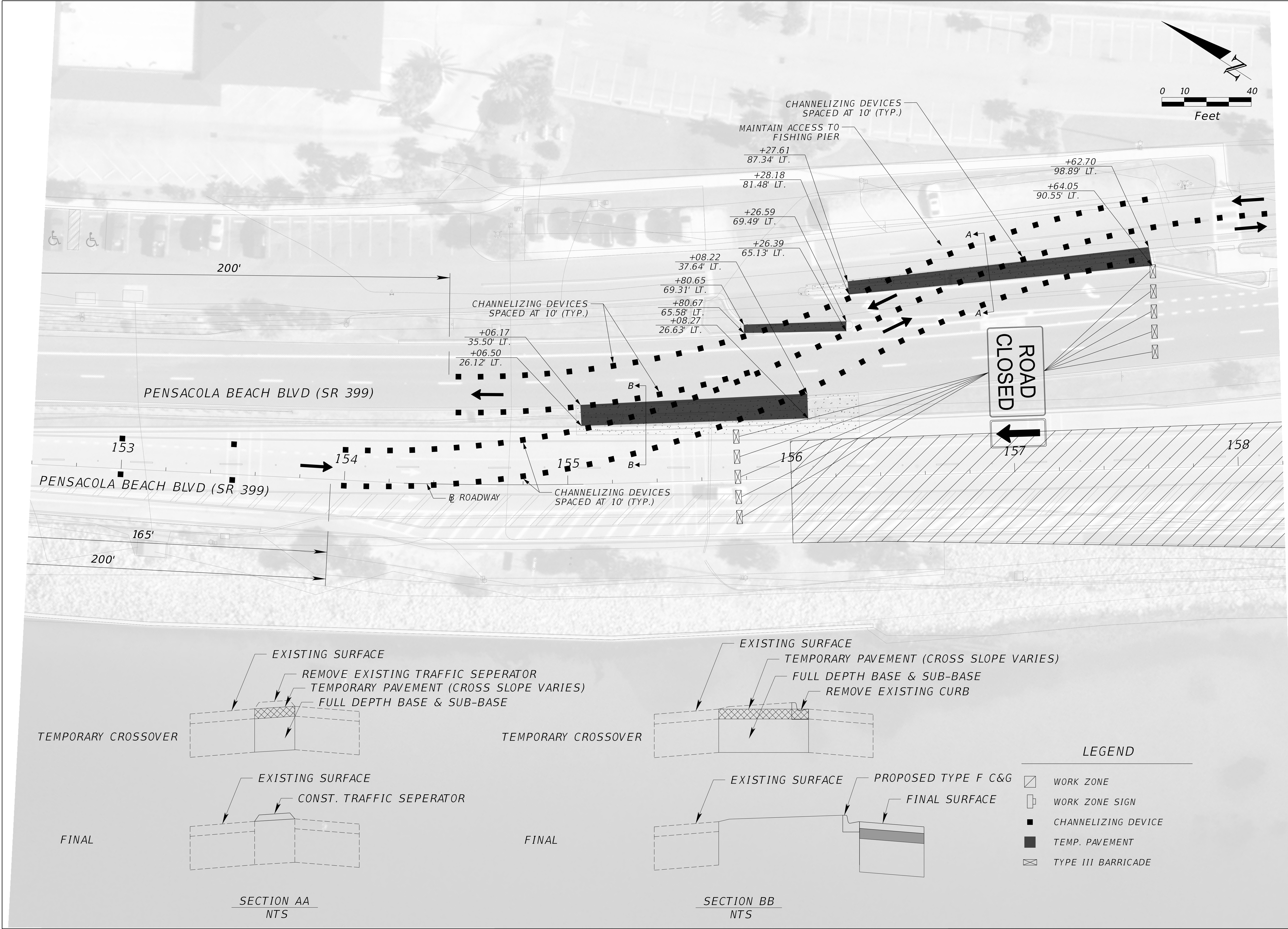
PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE	
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SHEET	18 of 79

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LEGEND	
	WORK ZONE
	WORK ZONE SIGN
	CHANNELIZING DEVICE
	TEMP. PAVEMENT
	TYPE III BARRICADE

Jacobs

MOT

TEMPORARY TRAFFIC CONTROL PLAN
PHASE II

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	DR	REVISION	CHK	APVD
					BY
					APVD

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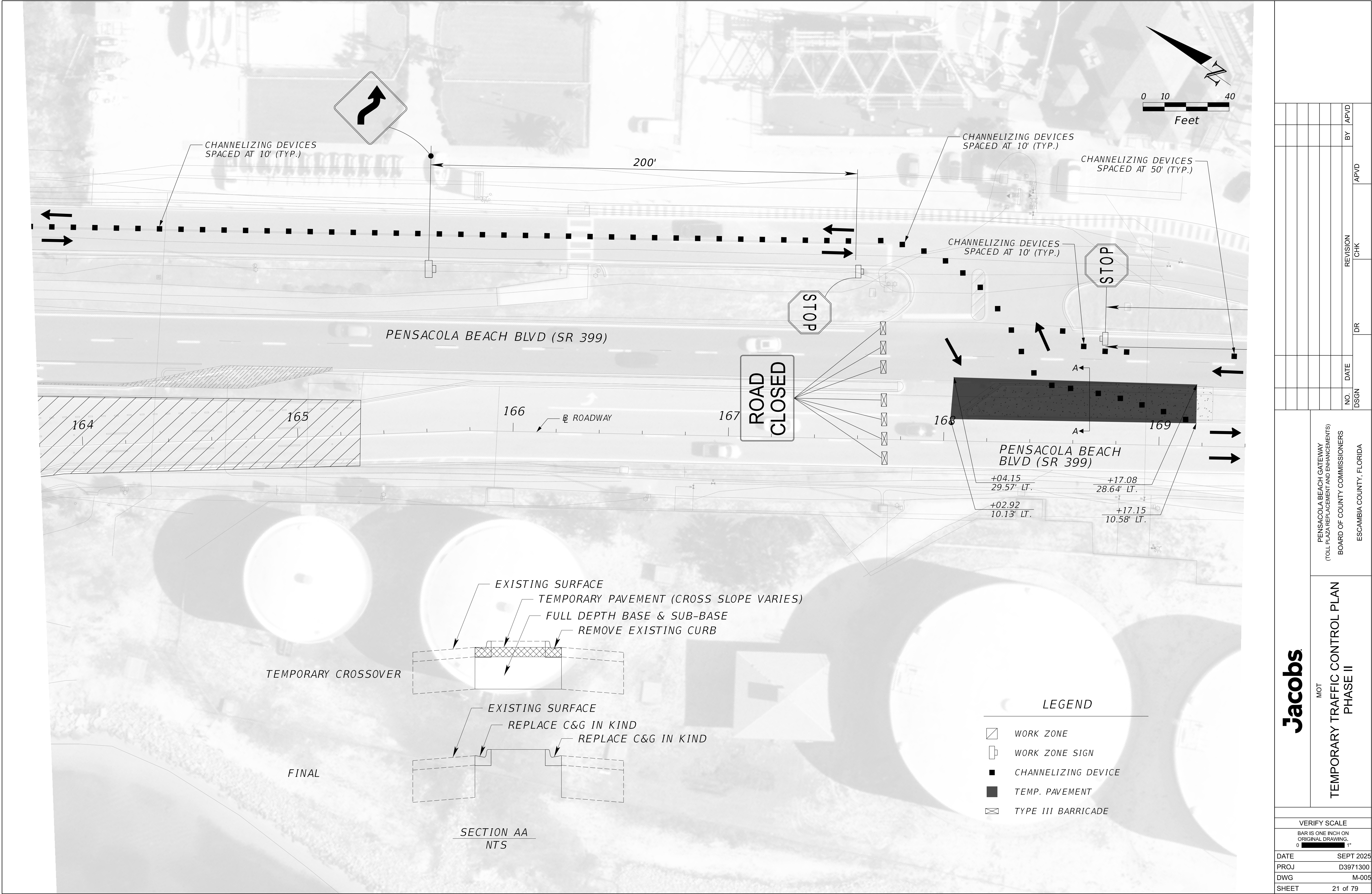
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PROJ	D3971300
DWG	M-003
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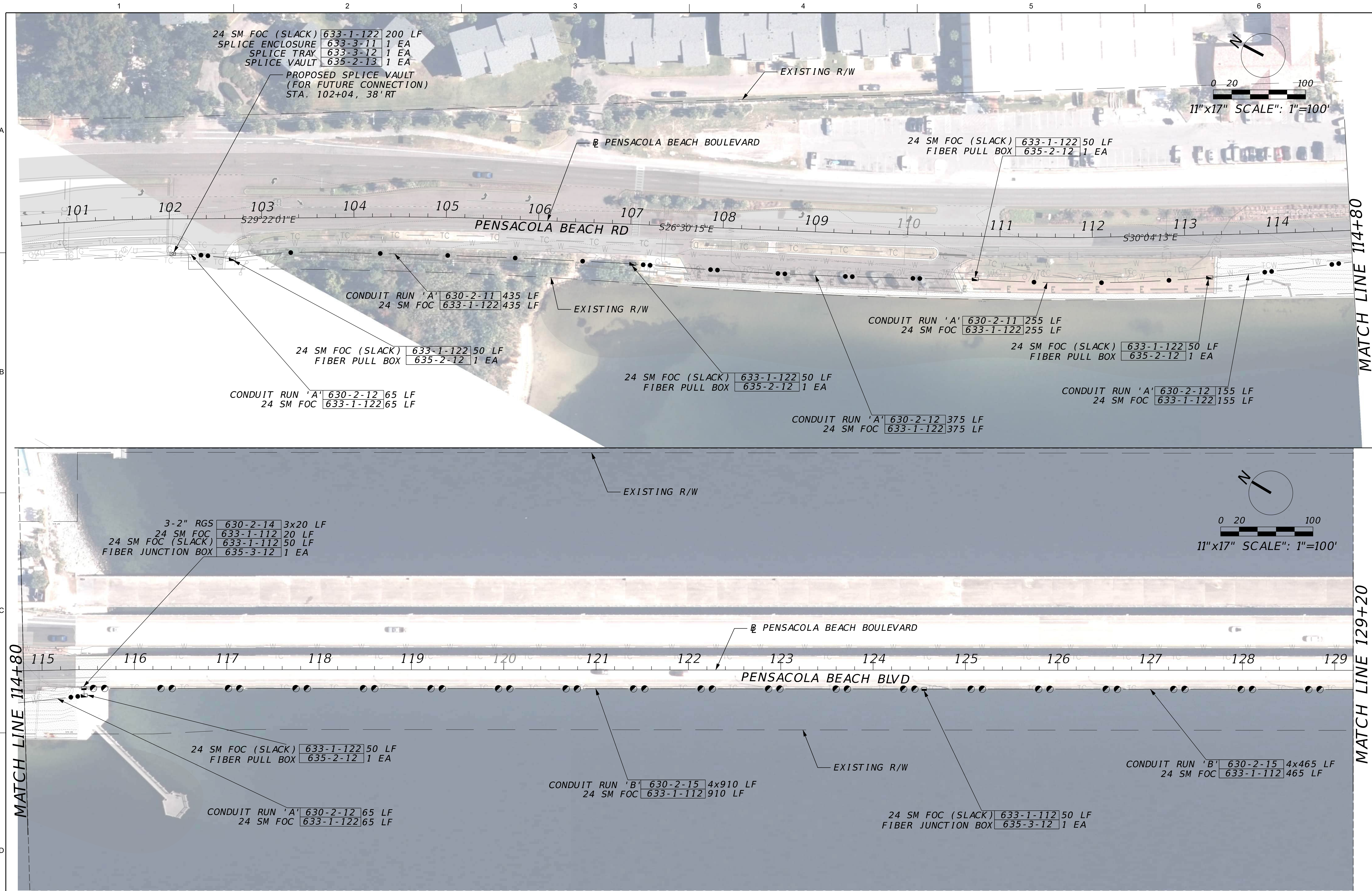
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DWG	M-004
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CONDUIT RUN 'A'
USE 3-2" HDPE CONDUITS AS FOLLOWS
- 1-2" ORANGE WITHOUT STRIPES (INSTALL 24 SM FOC BACKBONE)
- 2-2" ORANGE WITH GREEN STRIPES (SPARE)
TRACE WIRE SHALL BE BURIED DIRECTLY

CONDUIT RUN 'B'
USE 4" IPS FIBERGLASS CONDUITS
W/3-1.5" HDPE INNERDUCTS AS FOLLOWS
- 1-1.5" ORANGE WITHOUT STRIPES (INSTALL 24 SM FOC BACKBONE)
- 2-1.5" ORANGE WITH GREEN STRIPES (SPARE)

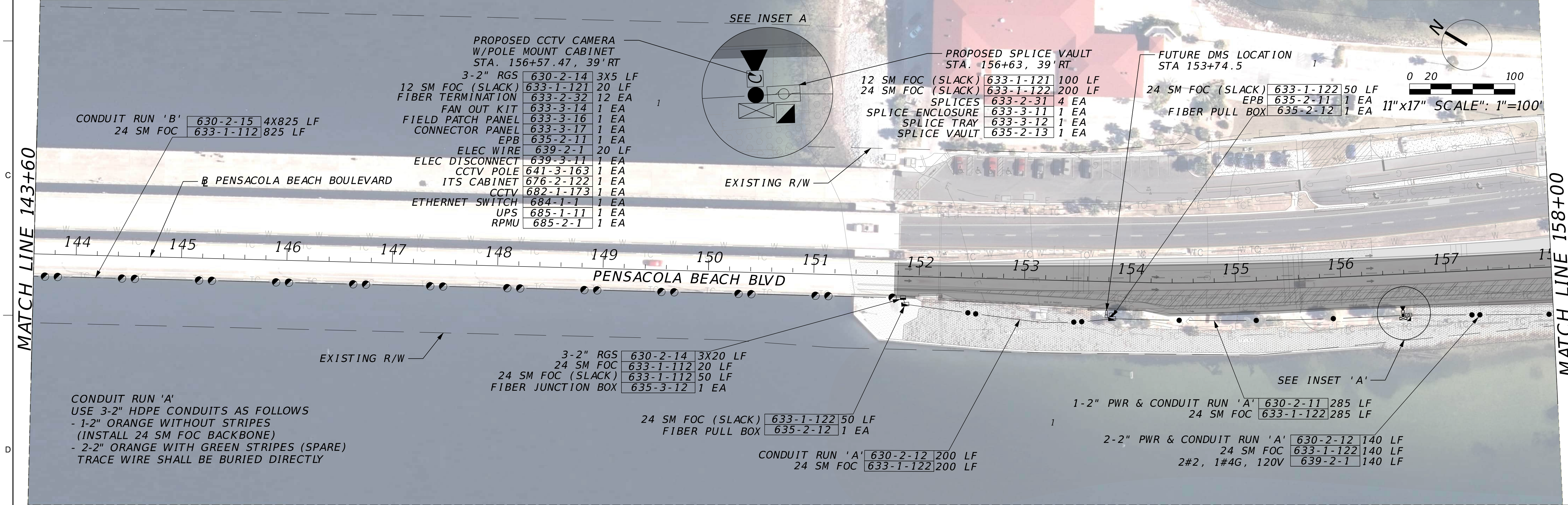
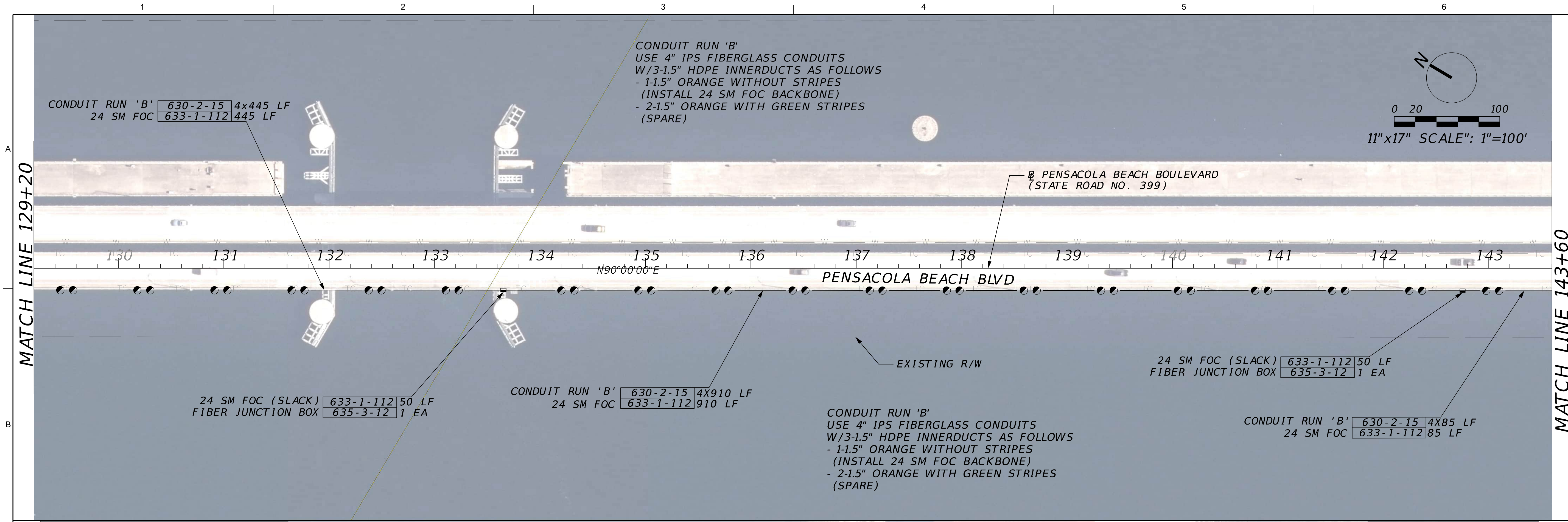
Jacobs

ITS
PLANS
STA. 101+00 TO STA. 129+20

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	DGN	DR	CHK	APVD	BY	APVD

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	OCT 2025
PROJ	D3971300
DWG	I-005
SHEET	26 of 79



JACOBS

PLANS

STA. 129+20 TO STA. 158+00

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

NO. DATE DSGN

REVISION CHK

BY APVD

DATE OCT 2025

PROJ D3971300

DWG I-006

SHEET 27 of 79

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

1"

100% DESIGN DOCUMENTS

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MATCH LINE 158+00

MATCH LINE 172+40

MATCH LINE 172+40

MATCH LINE 186+80

Jacobs

ITS

PLANS

STA. 158+00 TO STA. 186+80

VERIFICATION

DATE

PROJ

DWG

SHEET

28 of 79

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DATE

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DR

PENSACOLA BEACH GATEWAY

(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

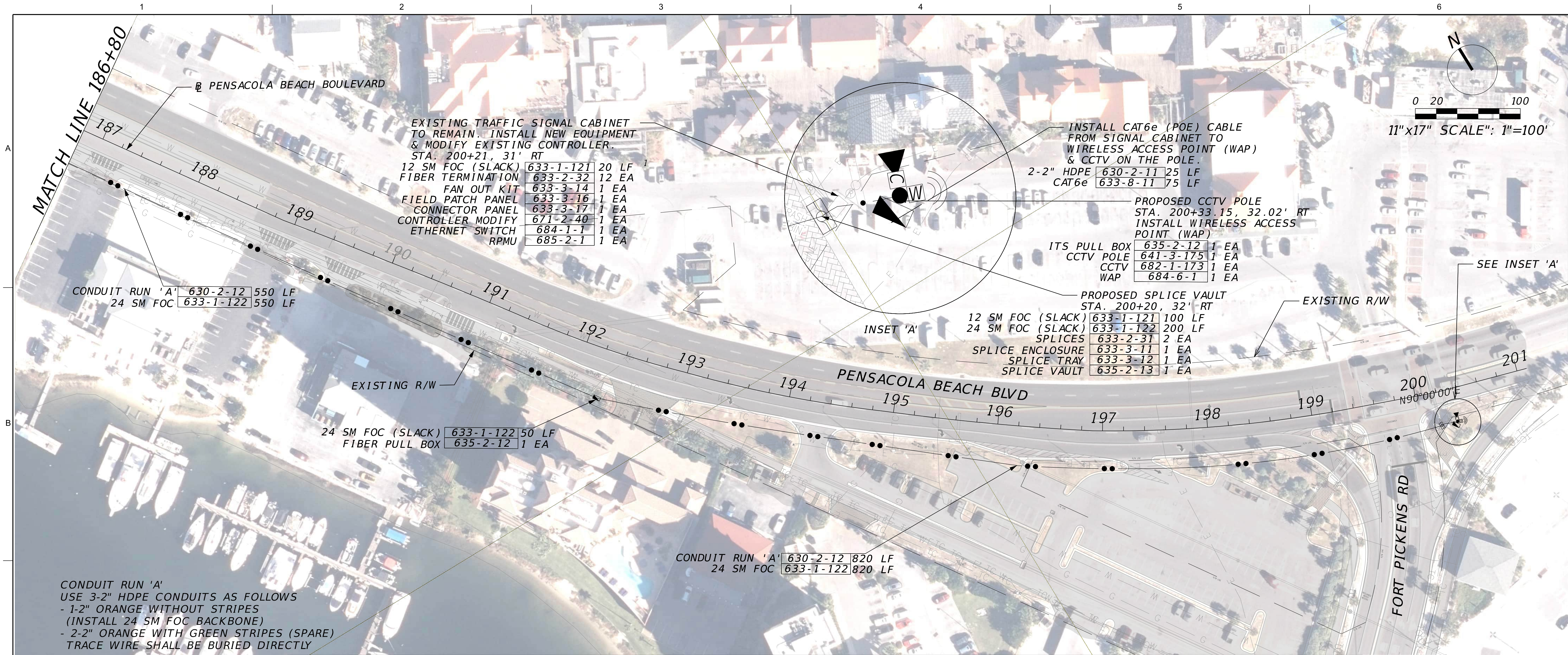
BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

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MATCH LINE 186+80		PENSACOLA BEACH BOULEVARD		EXISTING TRAFFIC SIGNAL CABINET TO REMAIN. INSTALL NEW EQUIPMENT & MODIFY EXISTING CONTROLLER. STA. 200+21, 31' RT	
12 SM FOC (SLACK)	633-1-121	20	LF	1	
FIBER TERMINATION	633-2-32	12	EA		
FAN OUT KIT	633-3-14	1	EA		
FIELD PATCH PANEL	633-3-16	1	EA		
CONNECTOR PANEL	633-3-17	1	EA		
CONTROLLER MODIFY	671-2-40	1	EA		
ETHERNET SWITCH	684-1-1	1	EA		
RPMU	685-2-1	1	EA		
CONDUIT RUN 'A' 630-2-12 550 LF		24 SM FOC 633-1-122 550 LF			
EXISTING R/W					
24 SM FOC (SLACK) 633-1-122 50 LF		FIBER PULL BOX 635-2-12 1 EA			
CONDUIT RUN 'A' 630-2-12 820 LF		24 SM FOC 633-1-122 820 LF			
INSET 'A'					
12 SM FOC (SLACK) 633-1-121 100 LF		24 SM FOC (SLACK) 633-1-122 200 LF			
SPLICES 633-2-31 2 EA		SPLICE ENCLOSURE 633-3-11 1 EA			
SPLICE TRAY 633-3-12 1 EA		SPLICE VAULT 635-2-13 1 EA			
INSTALL CAT6e (POE) CABLE FROM SIGNAL CABINET TO WIRELESS ACCESS POINT (WAP) & CCTV ON THE POLE.		2-2" HDPE 630-2-11 25 LF			
CAT6e 633-8-11 75 LF					
PROPOSED CCTV POLE STA. 200+33.15, 32.02' RT		INSTALL WIRELESS ACCESS POINT (WAP)			
ITS PULL BOX 635-2-12 1 EA		CCTV POLE 641-3-175 1 EA			
CCTV 682-1-173 1 EA		WAP 684-6-1 1 EA			
PROPOSED SPLICE VAULT STA. 200+20, 32' RT					
EXISTING R/W					
SEE INSET 'A'					

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ITS PLANS STA. 186+80 TO STA. 201+00

PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS) BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA

DATE OCT 2025 PROJ D3971300 DWG I-008 SHEET 29 of 79

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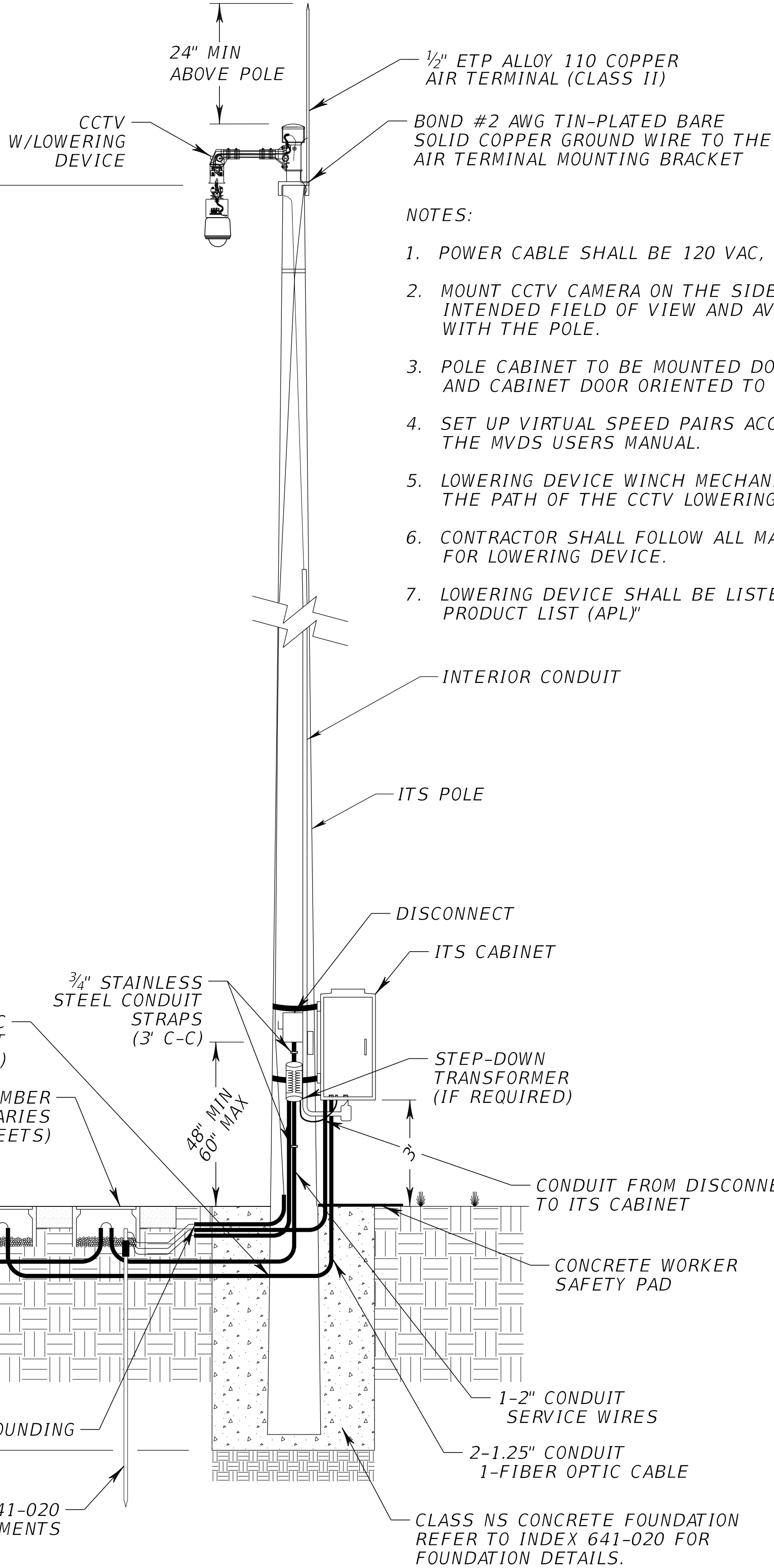
DR

CHK

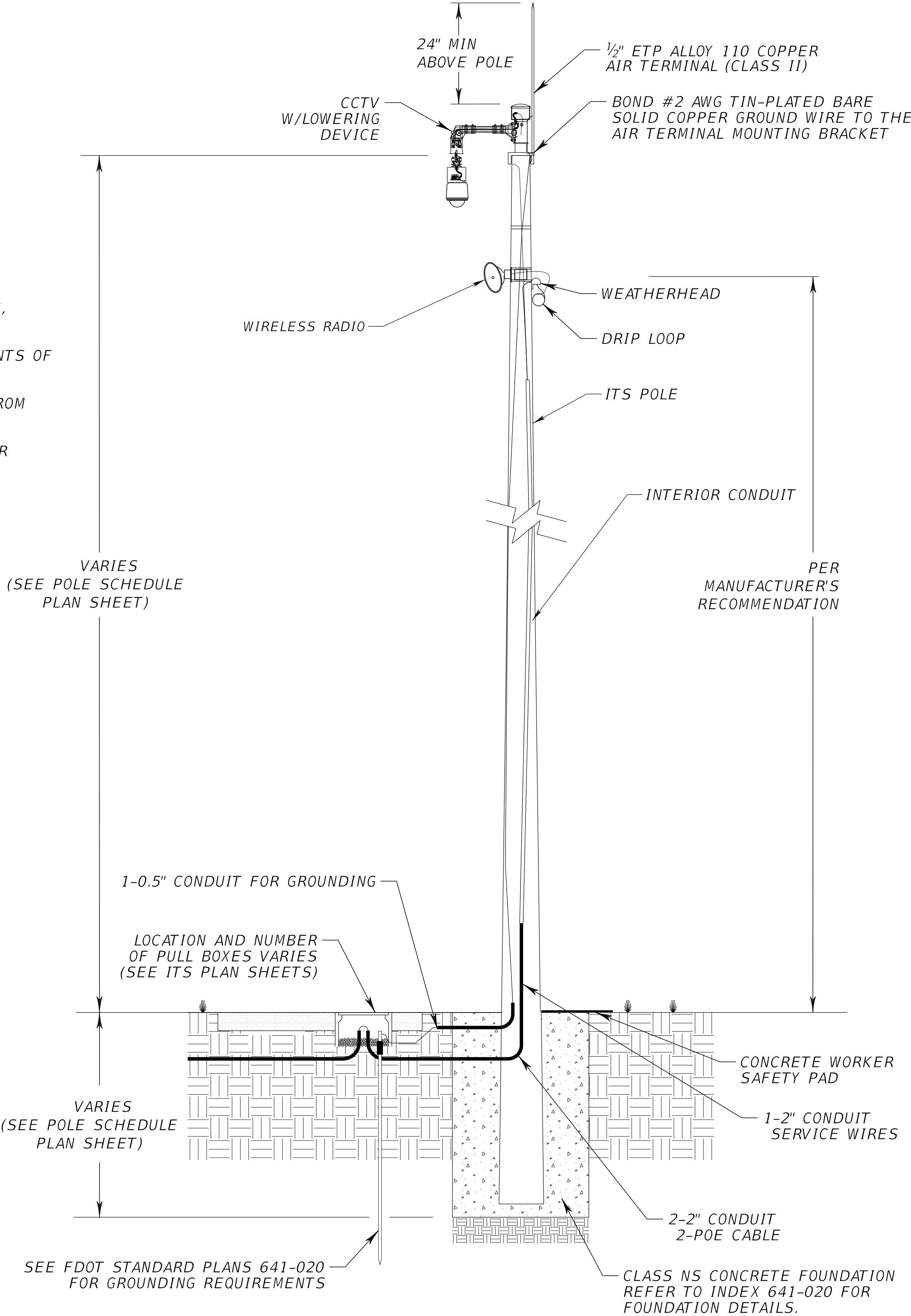
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CCTV INSTALLATION DETAILS
N.T.S.



POLE 'A' - STA 156+57.49, 39' R



POLE 'B' - STA 200+33.15, 32.02' RT

[illegible]

**TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA**

Jacobs

ITS
CCTV & RADIO
INSTALLATION DETAILS

VERIFY SCALE

1" = 1' ON ORIGINAL DRAWING.

DATE OCT 2025

PROJ	D3971300
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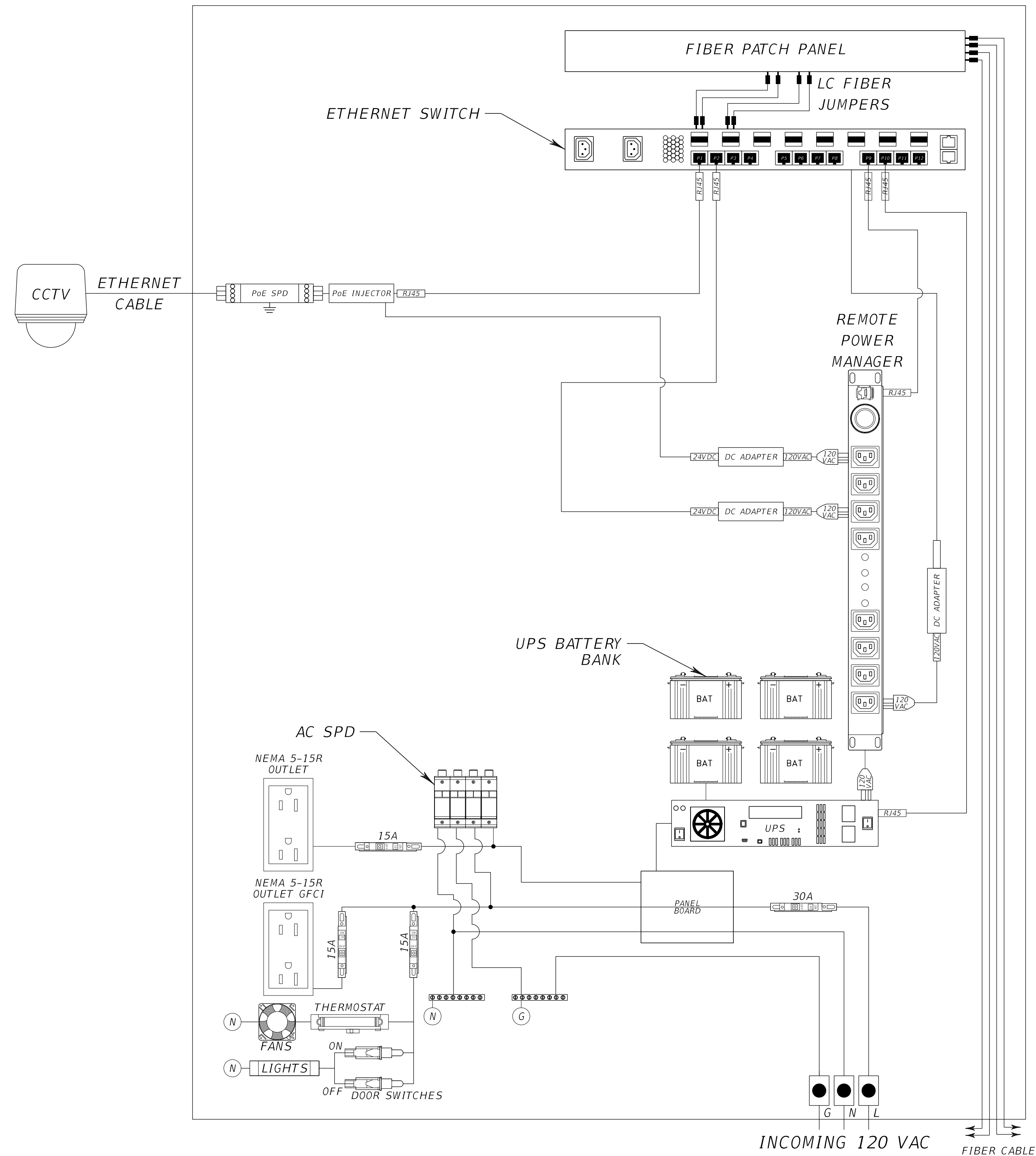
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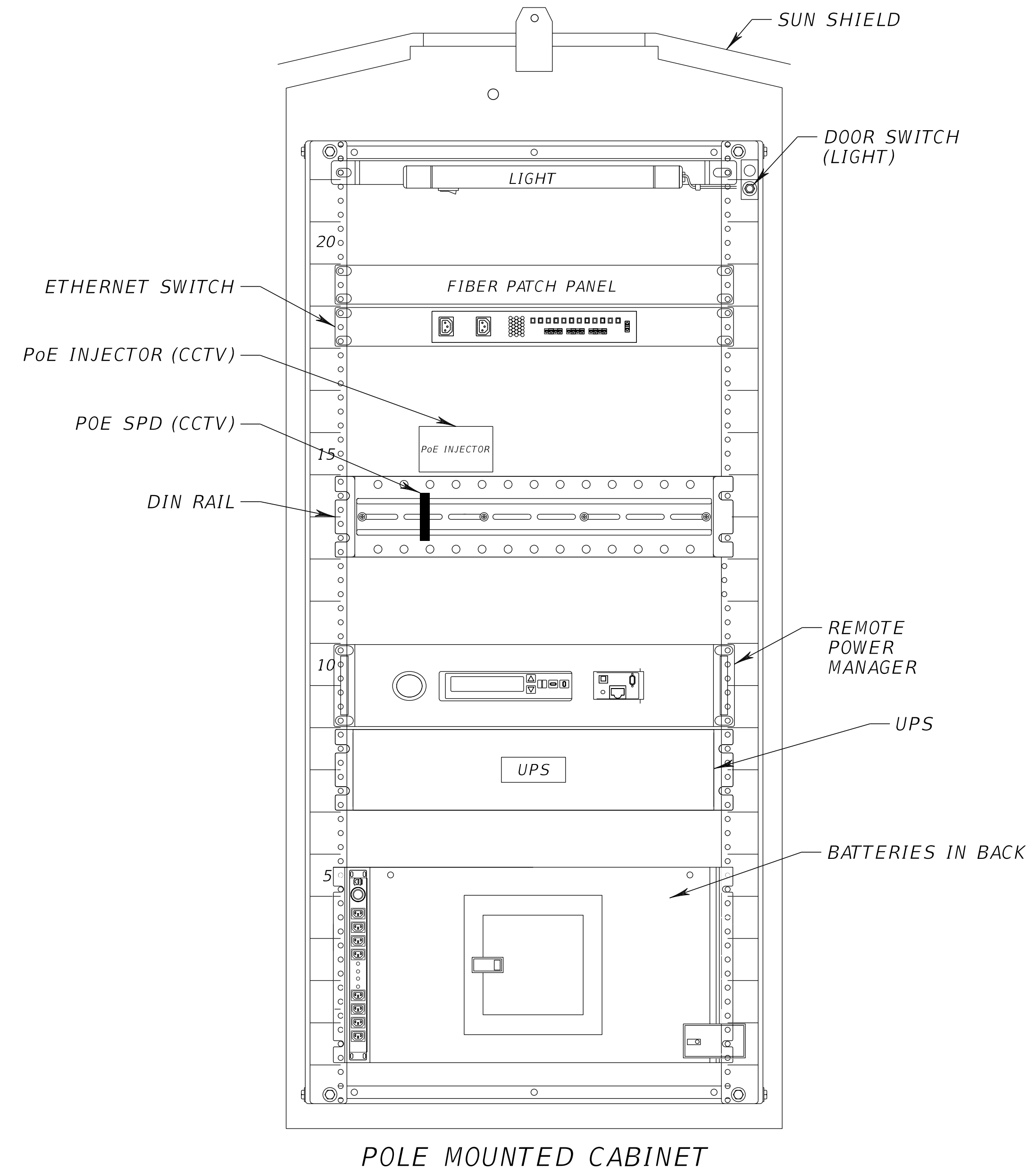
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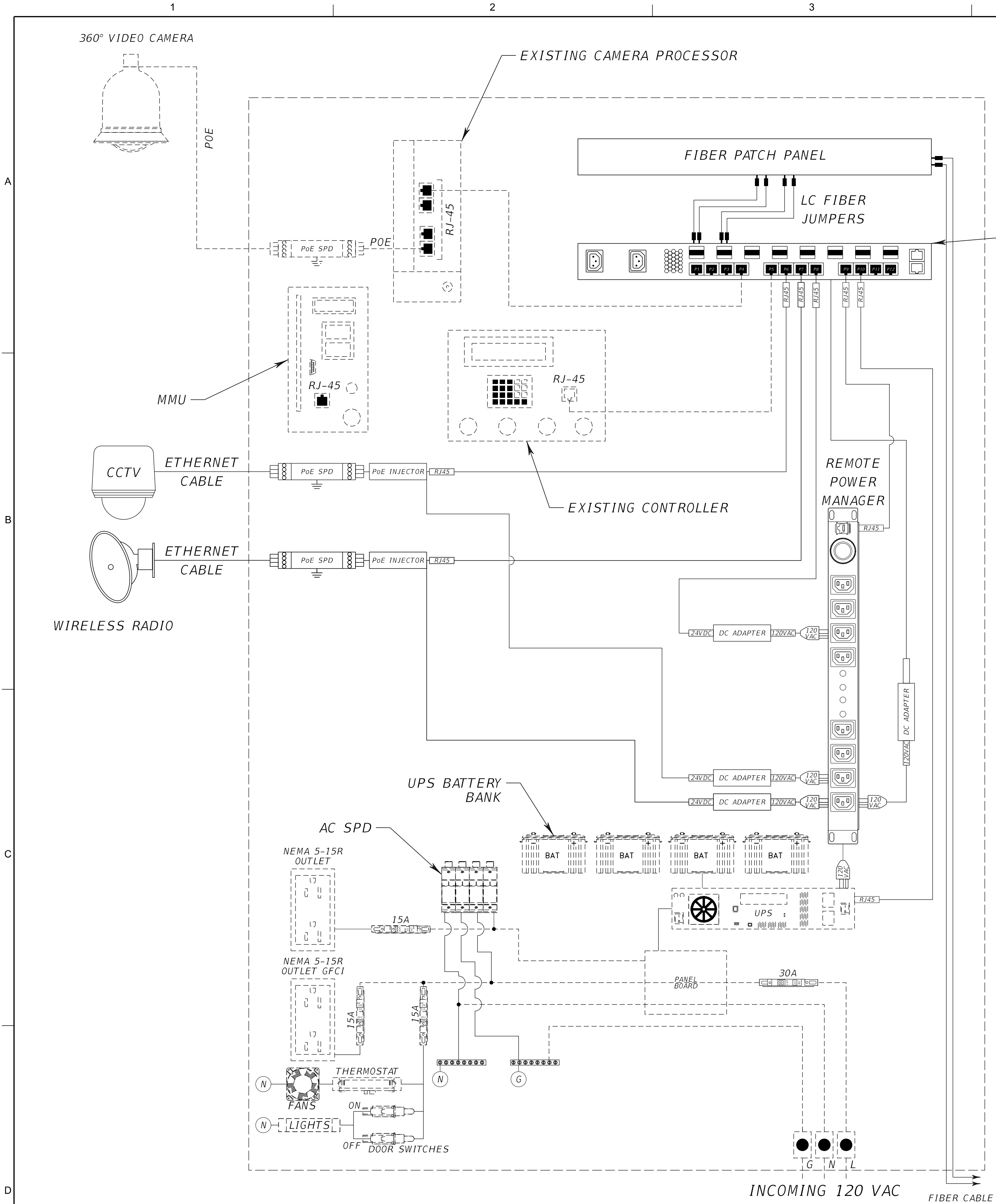
CCTV WIRING DIAGRAM
N.T.S.

POLE 'A' - STA 156+57.49, 39' RT



CCTV CABINET DETAILS
N.T.S.

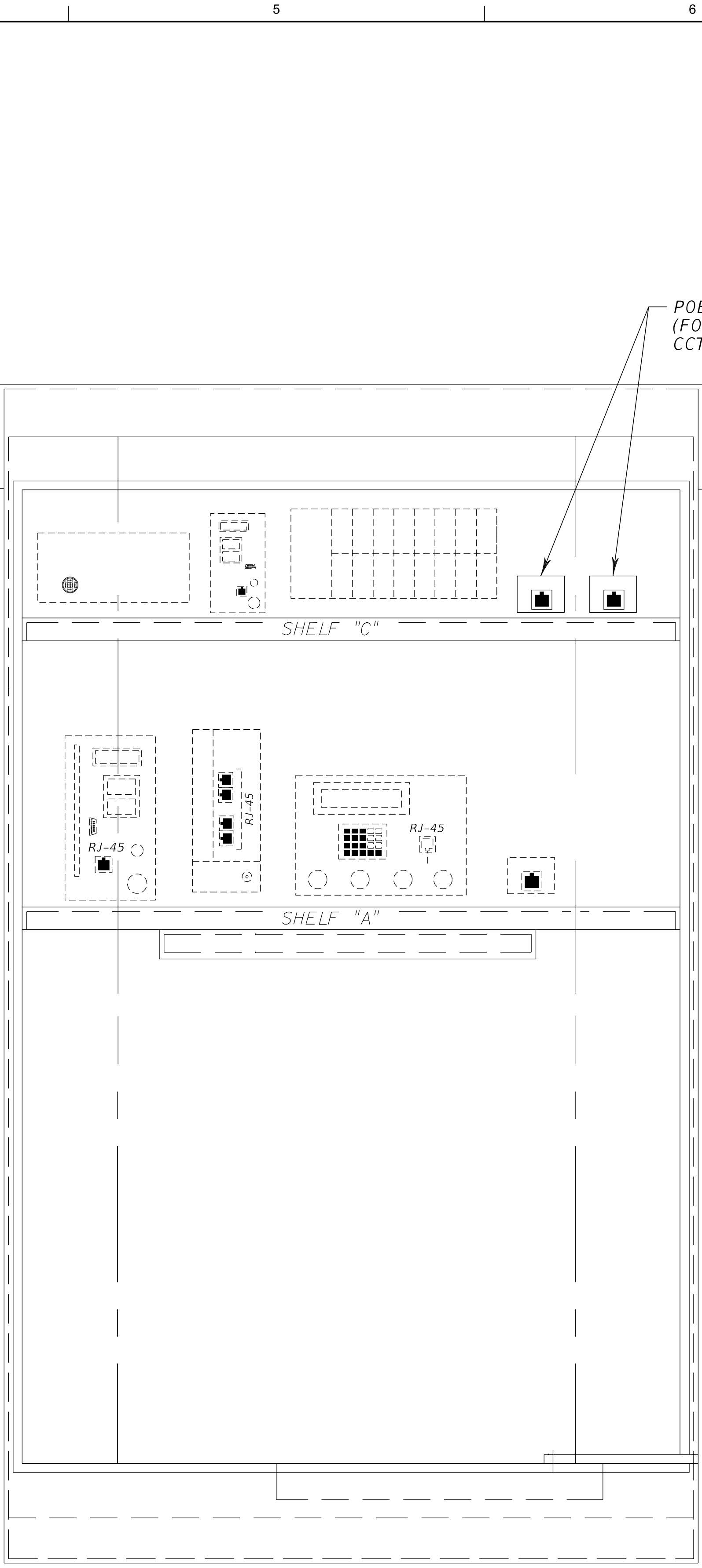
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CCTV & RADIO WIRING DIAGRAM
(EXISTING SIGNAL CABINET)

N.T.S.

POLE 'B' - STA 200+33.15, 32.02' RT



EXISTING SIGNAL CABINET DETAILS
N.T.S.

Jacobs

ITS
CABINET DETAILS &
WIRING DIAGRAM

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE OCT 2025

PROJ D3971300

DWG I-011

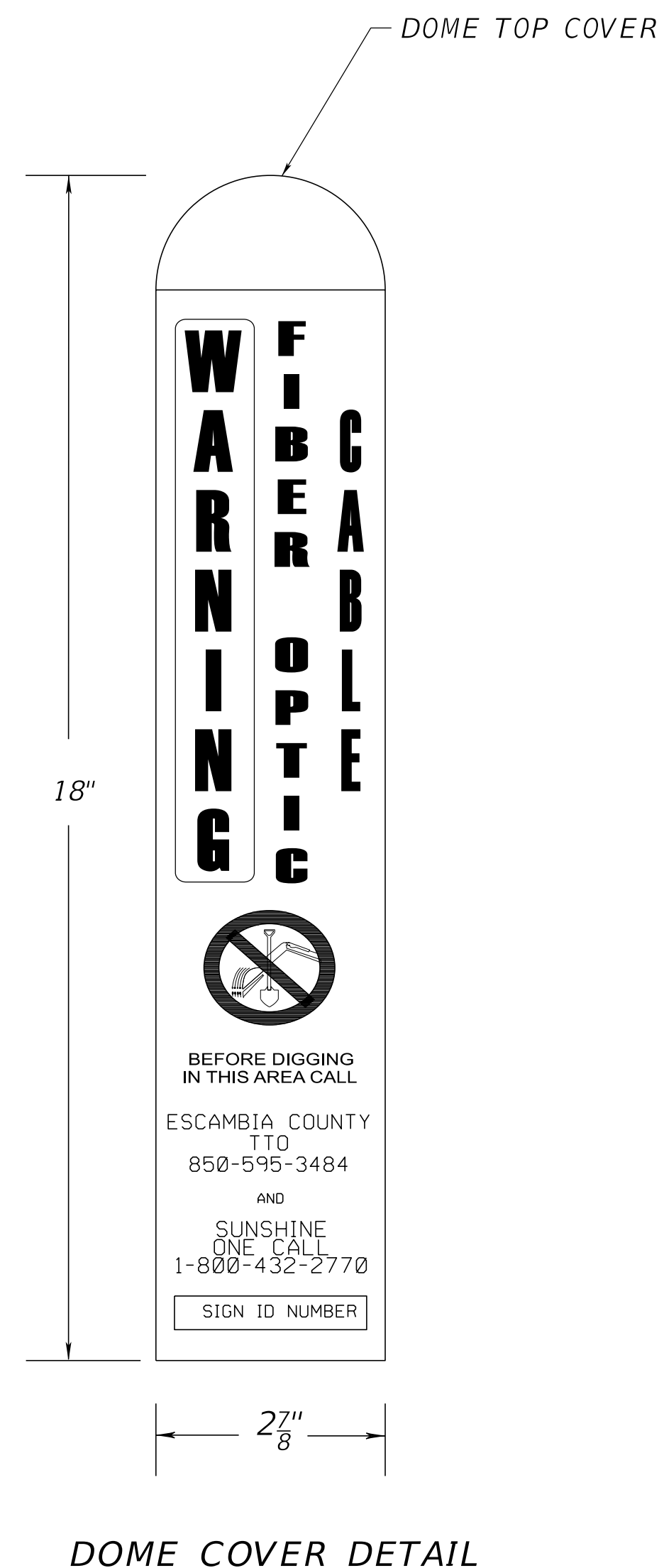
SHEET 32 of 79

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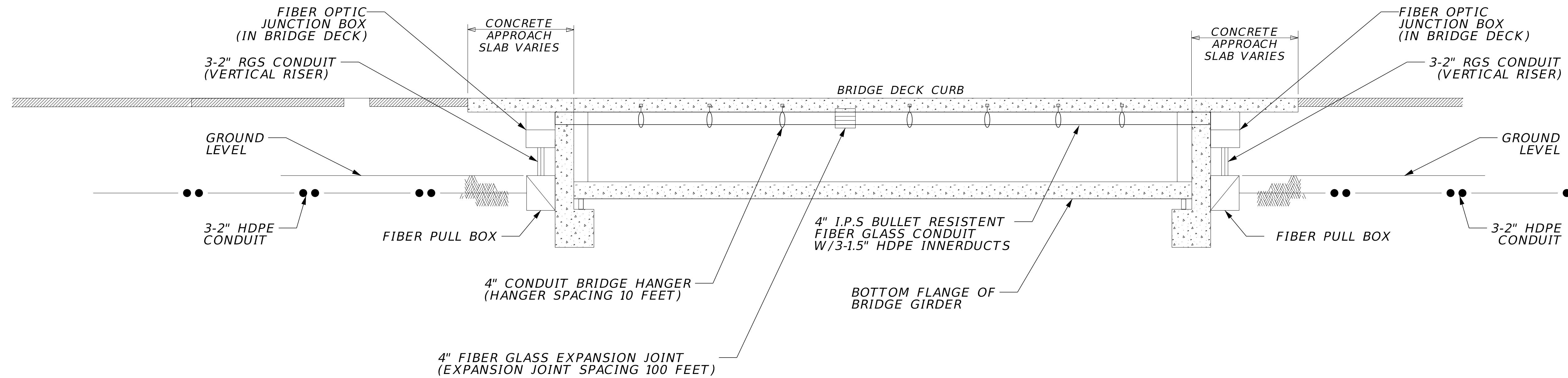
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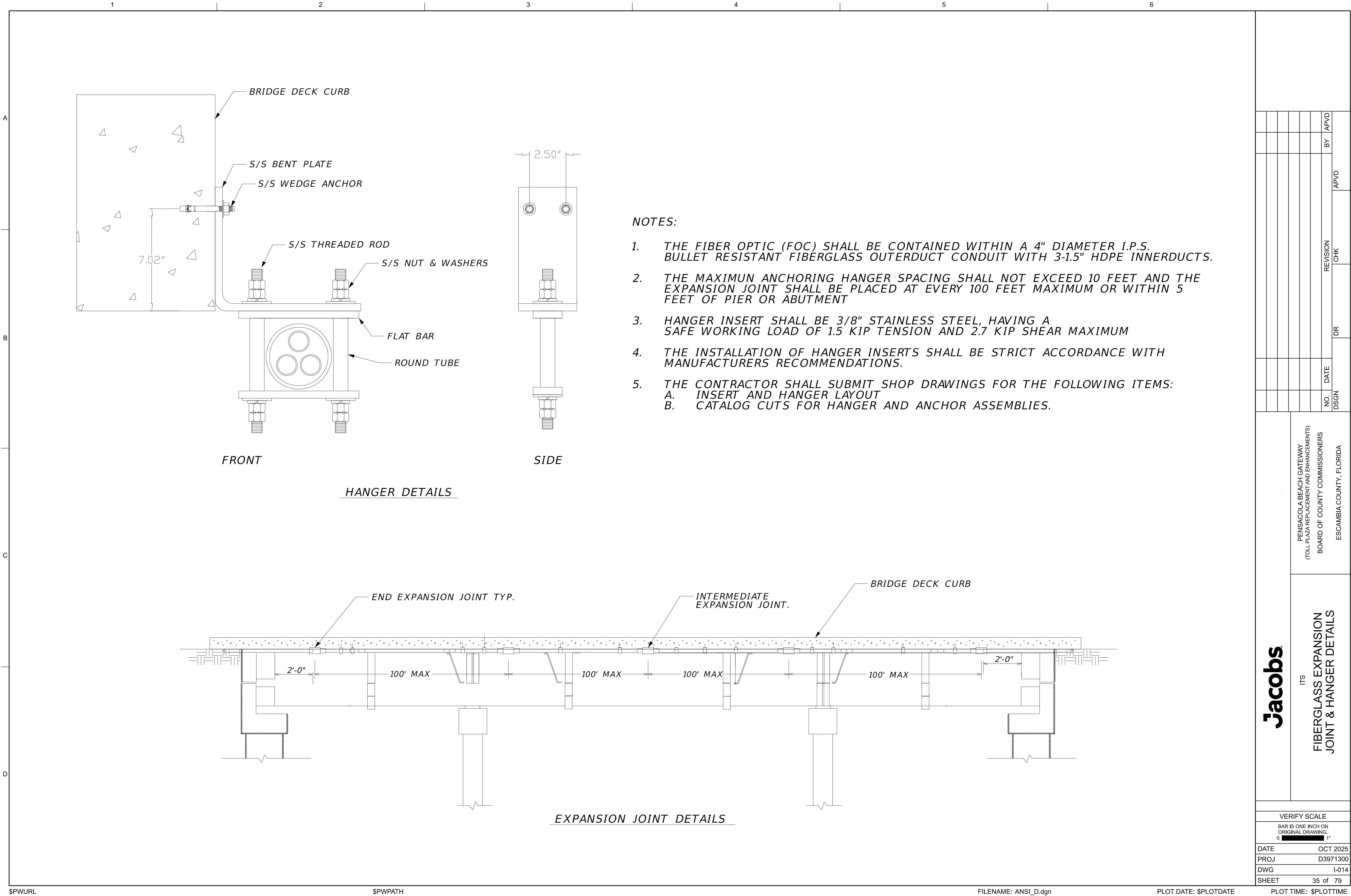


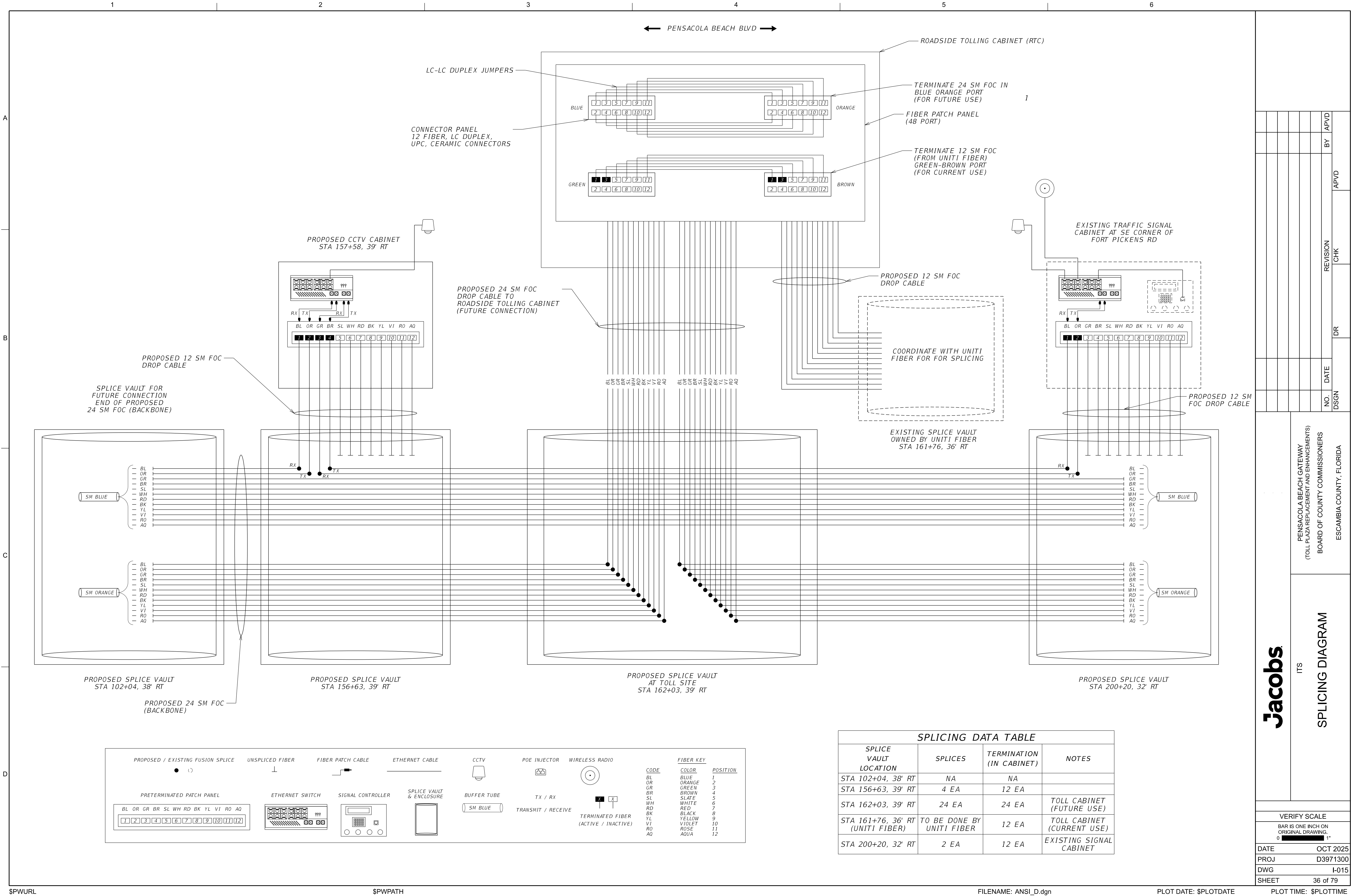
		ITS ELECTRONIC ROUTE MARKER DETAIL		PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS) BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA													
VERIFY SCALE																	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"																	
DATE				OCT 2025													
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DWG				I-012													
SHEET				33 of 79													
PLOT TIME: \$PLOTTIME																	

PLAN VIEW



VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"	
DATE	OCT 2025
PROJ	D3971300
DWG	I-013
SHEET	34 of 79
PILOT TIME: \$PILOTTIME	



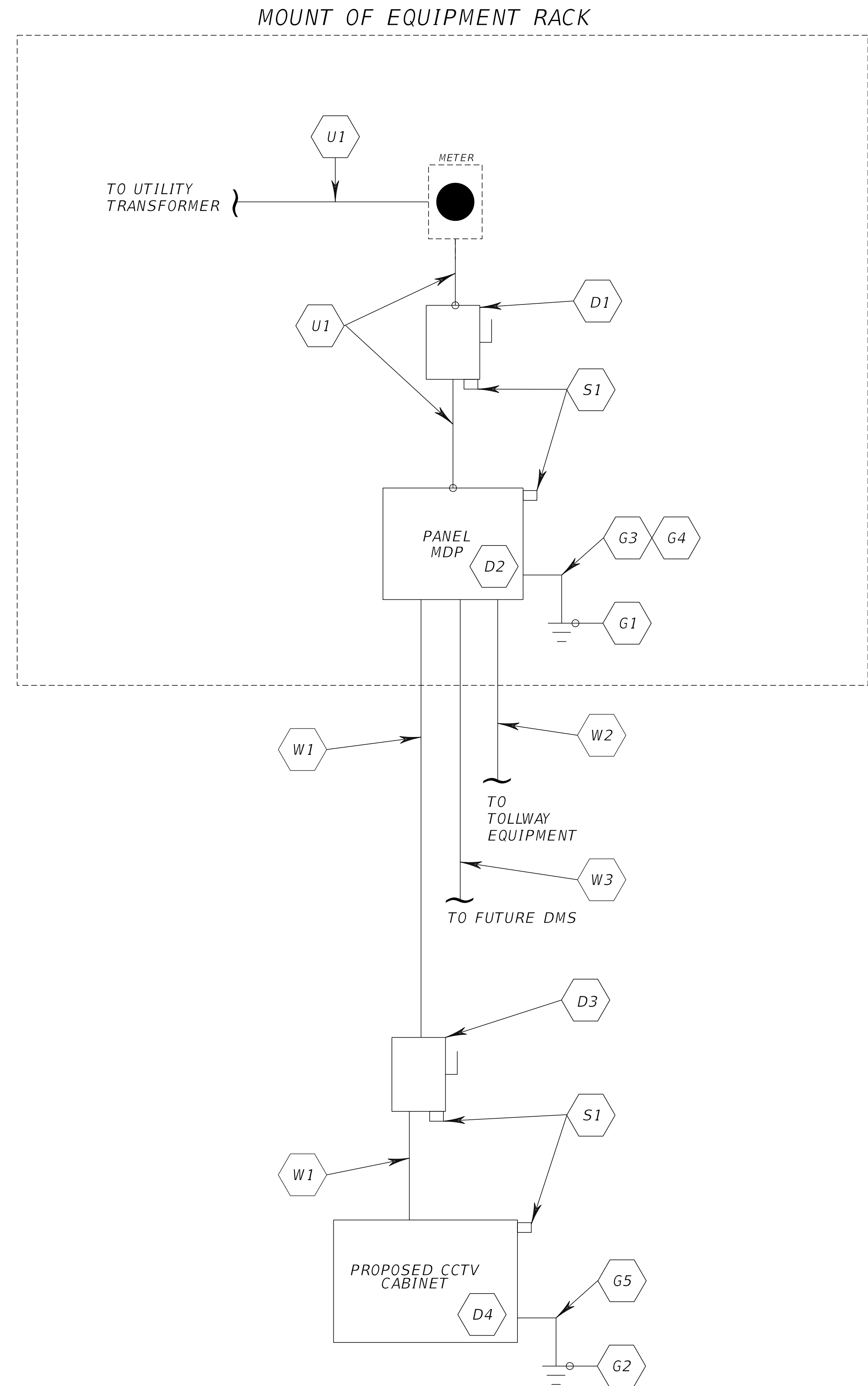
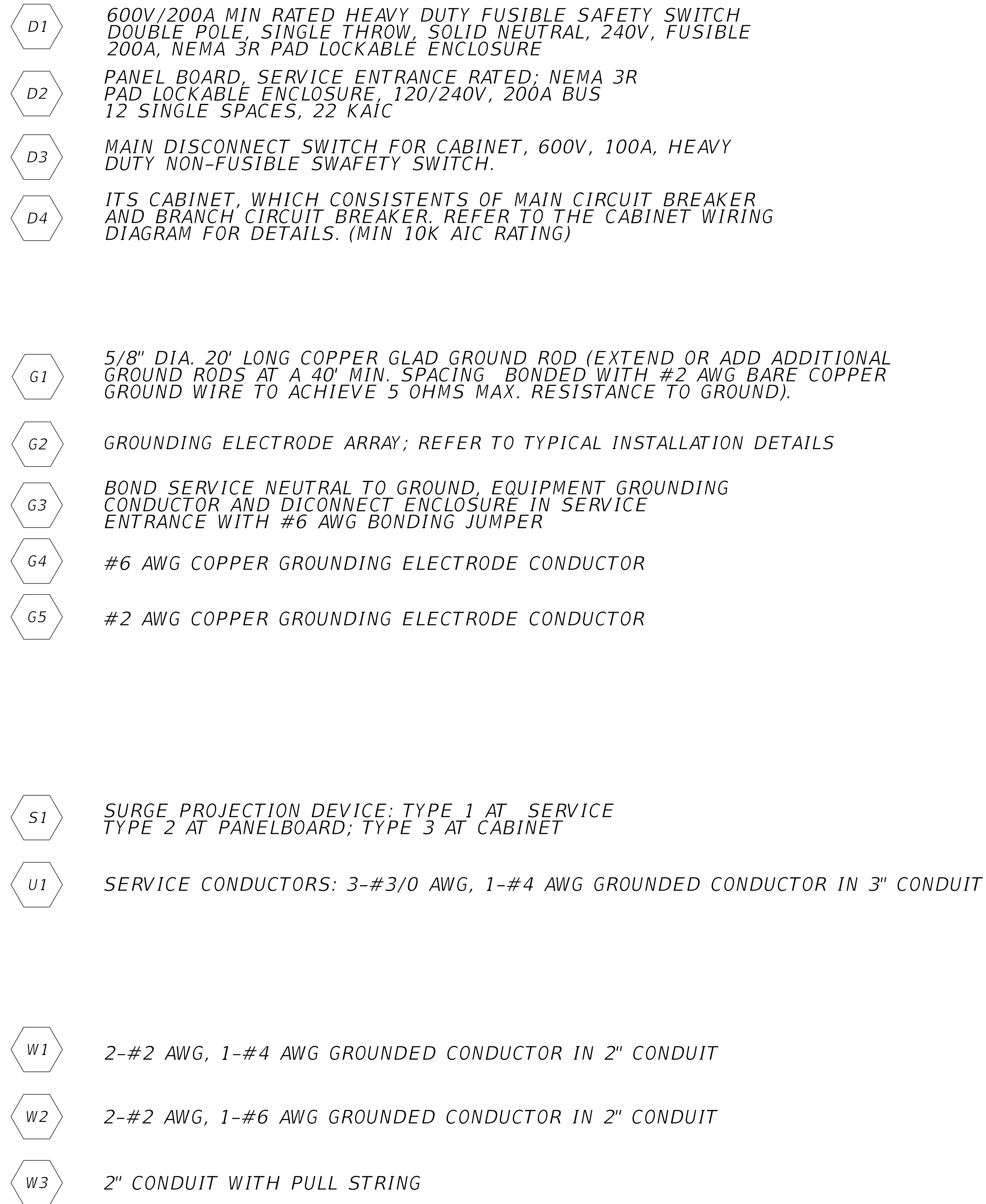


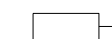
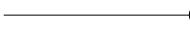
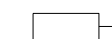
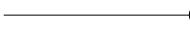
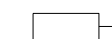
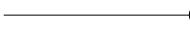
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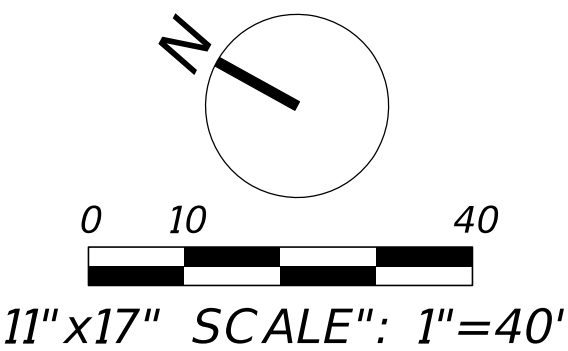
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ELECTRICAL GENERAL NOTES 1. PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT AND RACEWAYS WITH LABELING AT EACH END. 2. THE USE OF ANY PROCESS INVOLVING ASBESTOS OR PCB, AND THE INSTALLATION OF ANY PRODUCT, INSULATION, COMPOUND OF MATERIAL CONTAINING OR INCORPORATING ASBESTOS OR PCB, IS PROHIBITED. PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WITHOUT THE USE OF ASBESTOS OR PCB. 3. INCLUDE THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE. PROVIDE WRITTEN CERTIFICATION THAT ALL MATERIALS WERE RECYCLED OR DISPOSED OF PROPERLY PER THE GUIDELINES NOTED ABOVE. 4. LOCATE EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE. 5. UNDERGROUND CONDUIT SHALL BE PVC SCH. 80, UON. UNDERGROUND CONDUIT SHALL TRANSITION TO RGS CONDUIT WITH PVC TO RGS CONDUIT FITTINGS. WHERE RGS CONDUIT IS INSTALLED UNDERGROUND IT SHALL BE COATED WITH WATER PROOFING BITUMINOUS COATING. COATING SHALL EXTEND 6 INCHES ABOVE GRADE OR 6 INCHES ABOVE THE THE CONCRETE SLAB. 6. TOLL EQUIPMENT AND ALL WIRING/CABLING FOR TOLL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY T.E.C., TRANSCORE. 7. UNDERGROUND CONDUITS SHALL BE INSTALLED A MINIMUM OF 36" BELOW GRADE. 8. EXPOSED EXTERIOR CONDUIT SHALL BE RGS THROUGH AND INCLUDING THE FIRST 90° BEND INSTALLED UNDERGROUND. TRANSITIONS BETWEEN RGS AND PVC CONDUIT SHALL BE MADE WITH A RGS TO PVC CONDUIT FITTING. 9. EQUIPMENT SPECIFIED WITH CATALOG NUMBERS OR PART NUMBERS SHALL NOT BE SUBSTITUTED UNLESS "OR EQUAL" IS INDICATED. 10. CONDUIT RESERVED FOR TOLLING LOOPS SHALL BE SCH. 80 PVC. 11. PLASTIC END CAPS SHALL BE INSTALLED ON ENDS OF UNISTRUT. 12. ALL LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE METALLIC. 13. CONTACT THE POWER COMPANY AND TELEPHONE COMPANY WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT AND SCHEDULE NEW SERVICE INSTALLATION. 14. PHASE WORK AS REQUIRED BY MOT PLANS. 15. MAINLINE GANTRY DATA WIRE TROUGHS SHALL BE MODIFIED BY A UL OR ETL LISTED PANEL SHOP. THE WIREWAYS TERMINATED TO THE TOP OF THE WIRE TROUGH SHALL BE MODIFIED AND ASSEMBLED IN THE PANEL SHOP AND NOT IN THE FIELD TO ENSURE PROPER WATERTIGHT SEAL. SHOP DRAWINGS INCLUDING DIMENSIONED SKETCHES AND MATERIAL PRODUCT DATA SHALL BE SUBMITTED FOR REVIEW FOR FABRICATION OF DATA WIRE TROUGH. REFER TO MAINLINE GANTRY DETAILS FOR ADDITIONAL REQUIREMENTS.							ELECTRICAL SYMBOL LEGEND: <table><tr><th>SYMBOL</th><th>DESCRIPTION</th></tr><tr><td></td><td>JUNCTION BOX 4" SQ. OR AS NOTED.</td></tr><tr><td></td><td>GROUND WELL WITH GROUND ROD.</td></tr><tr><td></td><td>DISCONNECT SWITCH AS NOTED.</td></tr><tr><td></td><td>METALLIC LIQUID TIGHT FLEXIBLE CONDUIT CONNECTION.</td></tr><tr><td></td><td>OUTLET OR JUNCTION BOX, SIZE PER NEC.</td></tr><tr><td></td><td>CONTROL PANEL.</td></tr><tr><td></td><td>GROUND ROD</td></tr><tr><td></td><td>PULL BOX.</td></tr><tr><td></td><td>LIGHTNING PROTECTION CONDUCTOR.</td></tr><tr><td></td><td>UNDERGROUND GROUND CONDUCTOR.</td></tr><tr><td></td><td>UNDERGROUND CONDUIT</td></tr><tr><td></td><td>CONDUIT UP.</td></tr><tr><td></td><td>CONDUIT DOWN.</td></tr><tr><td></td><td>DEVICE OR EQUIPMENT AS NOTED</td></tr><tr><td></td><td>REFERENCE NOTES</td></tr></table>							SYMBOL	DESCRIPTION		JUNCTION BOX 4" SQ. OR AS NOTED.		GROUND WELL WITH GROUND ROD.		DISCONNECT SWITCH AS NOTED.		METALLIC LIQUID TIGHT FLEXIBLE CONDUIT CONNECTION.		OUTLET OR JUNCTION BOX, SIZE PER NEC.		CONTROL PANEL.		GROUND ROD		PULL BOX.		LIGHTNING PROTECTION CONDUCTOR.		UNDERGROUND GROUND CONDUCTOR.		UNDERGROUND CONDUIT		CONDUIT UP.		CONDUIT DOWN.		DEVICE OR EQUIPMENT AS NOTED		REFERENCE NOTES	ABBREVIATIONS: <table><tr><td>A</td><td>AMPS</td></tr><tr><td>AASHTO</td><td>AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS</td></tr><tr><td>AC</td><td>AIR CONDITIONING [UNIT]</td></tr><tr><td>AFF</td><td>ABOVE FINISH FLOOR</td></tr><tr><td>AFG</td><td>ABOVE FINISH GRADE</td></tr><tr><td>AL, ALUM.</td><td>ALUMINUM</td></tr><tr><td>ANSI</td><td>AMERICAN NATIONAL STANDARDS INSTITUTE</td></tr><tr><td>ASTM</td><td>AMERICAN SOCIETY FOR TESTING AND MATERIALS</td></tr><tr><td>ATS</td><td>AUTOMATIC TRANSFER SWITCH</td></tr><tr><td>AVI</td><td>AUTOMATIC VEHICLE IDENTIFICATION</td></tr><tr><td>AWG</td><td>AMERICAN WIRE GAUGE</td></tr><tr><td>BCU</td><td>BATTERY CHARGER UNIT</td></tr><tr><td>BLDG.</td><td>BUILDING</td></tr><tr><td>BPS</td><td>BYPASS SWITCH</td></tr><tr><td>C.</td><td>CONDUIT</td></tr><tr><td>CCTV</td><td>CLOSED CIRCUIT TELEVISION</td></tr><tr><td>CKT.</td><td>CIRCUIT</td></tr><tr><td>COMP</td><td>COMPUTER</td></tr><tr><td>CU</td><td>COPPER</td></tr><tr><td>COMM.</td><td>COMMUNICATION</td></tr><tr><td>DEP</td><td>DEPARTMENT OF ENVIRONMENTAL PROTECTION</td></tr><tr><td>DIA.</td><td>DIAMETER</td></tr><tr><td>DN</td><td>DOWN</td></tr><tr><td>DWG.</td><td>DRAWING</td></tr><tr><td>E6</td><td>ENCOMPASS 6 MULTIPROTOCOL READER</td></tr><tr><td>ENG.</td><td>ENGINE</td></tr><tr><td>ETC</td><td>ELECTRONIC TOLL COLLECTION</td></tr><tr><td>ETC.</td><td>ET CETERA</td></tr><tr><td>EQUIP.</td><td>EQUIPMENT</td></tr><tr><td>EPA</td><td>ENVIRONMENTAL PROTECTION AGENCY</td></tr><tr><td>EPO</td><td>EMERGENCY POWER OFF</td></tr><tr><td>EXT.</td><td>EXTERIOR</td></tr><tr><td>FOC</td><td>FIBER OPTIC CABLE</td></tr><tr><td>FT</td><td>FOOT; FEET</td></tr><tr><td>FTE</td><td>FLORIDA'S TURNPIKE ENTERPRISE</td></tr><tr><td>FTL</td><td>FEED THROUGH LUGS</td></tr><tr><td>FTM</td><td>FUEL TANK MONITOR</td></tr><tr><td>FUT</td><td>FUTURE</td></tr><tr><td>GA</td><td>GAUGE</td></tr><tr><td>GAL.</td><td>GALLON</td></tr><tr><td>GEC</td><td>GROUNDING ELECTRODE CONDUCTOR</td></tr><tr><td>GFI</td><td>GROUND FAULT INTERRUPTER</td></tr><tr><td>GND</td><td>GROUND</td></tr><tr><td>HID</td><td>HIGH INTENSITY DISCHARGE</td></tr><tr><td>HP</td><td>HORSEPOWER</td></tr><tr><td>HZ</td><td>HORIZONTAL, HERTZ</td></tr><tr><td>I.C.</td><td>INTERRUPTING CAPACITY</td></tr><tr><td>I.D.</td><td>IDENTIFICATION</td></tr><tr><td>IN.</td><td>INCHES</td></tr><tr><td>JB</td><td>JUNCTION BOX</td></tr><tr><td>KA</td><td>KILOAMPERES</td></tr><tr><td>KVA</td><td>KILOVOLT AMPERES</td></tr><tr><td>KW</td><td>KILOWATT</td></tr><tr><td>LED</td><td>LIGHT EMITTING DIODE</td></tr><tr><td>LFMC</td><td>LIQUID TIGHT FLEXIBLE METAL CONDUIT</td></tr><tr><td>LN CTR</td><td>LANE CONTROLLER</td></tr><tr><td>LOC.</td><td>LOCATION</td></tr><tr><td>LLC</td><td>LEAD LAG CONTROLLER</td></tr><tr><td>LP</td><td>LIGHTNING PROTECTION</td></tr><tr><td>LTG</td><td>LIGHTING</td></tr><tr><td>MAX.</td><td>MAXIMUM</td></tr><tr><td>MCB</td><td>MAIN CIRCUIT BREAKER</td></tr><tr><td>MTS</td><td>MANUAL TRANSFER SWITCH</td></tr><tr><td>MIN.</td><td>MINIMUM</td></tr><tr><td>ML</td><td>MAINLINE</td></tr><tr><td>M.L.O.</td><td>MAIN LUGS ONLY</td></tr><tr><td>MOT</td><td>MAINTENANCE OF TRAFFIC</td></tr><tr><td>MTD</td><td>MOUNTED</td></tr><tr><td>N</td><td>NEUTRAL</td></tr><tr><td>NB</td><td>NORTHBOUND</td></tr></table>							A	AMPS	AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	AC	AIR CONDITIONING [UNIT]	AFF	ABOVE FINISH FLOOR	AFG	ABOVE FINISH GRADE	AL, ALUM.	ALUMINUM	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ATS	AUTOMATIC TRANSFER SWITCH	AVI	AUTOMATIC VEHICLE IDENTIFICATION	AWG	AMERICAN WIRE GAUGE	BCU	BATTERY CHARGER UNIT	BLDG.	BUILDING	BPS	BYPASS SWITCH	C.	CONDUIT	CCTV	CLOSED CIRCUIT TELEVISION	CKT.	CIRCUIT	COMP	COMPUTER	CU	COPPER	COMM.	COMMUNICATION	DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION	DIA.	DIAMETER	DN	DOWN	DWG.	DRAWING	E6	ENCOMPASS 6 MULTIPROTOCOL READER	ENG.	ENGINE	ETC	ELECTRONIC TOLL COLLECTION	ETC.	ET CETERA	EQUIP.	EQUIPMENT	EPA	ENVIRONMENTAL PROTECTION AGENCY	EPO	EMERGENCY POWER OFF	EXT.	EXTERIOR	FOC	FIBER OPTIC CABLE	FT	FOOT; FEET	FTE	FLORIDA'S TURNPIKE ENTERPRISE	FTL	FEED THROUGH LUGS	FTM	FUEL TANK MONITOR	FUT	FUTURE	GA	GAUGE	GAL.	GALLON	GEC	GROUNDING ELECTRODE CONDUCTOR	GFI	GROUND FAULT INTERRUPTER	GND	GROUND	HID	HIGH INTENSITY DISCHARGE	HP	HORSEPOWER	HZ	HORIZONTAL, HERTZ	I.C.	INTERRUPTING CAPACITY	I.D.	IDENTIFICATION	IN.	INCHES	JB	JUNCTION BOX	KA	KILOAMPERES	KVA	KILOVOLT AMPERES	KW	KILOWATT	LED	LIGHT EMITTING DIODE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	LN CTR	LANE CONTROLLER	LOC.	LOCATION	LLC	LEAD LAG CONTROLLER	LP	LIGHTNING PROTECTION	LTG	LIGHTING	MAX.	MAXIMUM	MCB	MAIN CIRCUIT BREAKER	MTS	MANUAL TRANSFER SWITCH	MIN.	MINIMUM	ML	MAINLINE	M.L.O.	MAIN LUGS ONLY	MOT	MAINTENANCE OF TRAFFIC	MTD	MOUNTED	N	NEUTRAL	NB	NORTHBOUND	ABBREVIATIONS CONT: <table><tr><td>N.C.</td><td>NORMALLY CLOSED</td></tr><tr><td>NEC</td><td>NATIONAL ELECTRICAL CODE</td></tr><tr><td>NEMA</td><td>NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</td></tr><tr><td>NIC</td><td>NOT IN CONTRACT</td></tr><tr><td>NO.</td><td>NUMBER</td></tr><tr><td>N.O.</td><td>NORMALLY OPEN</td></tr><tr><td>N.T.S.</td><td>NOT TO SCALE</td></tr><tr><td>N3R</td><td>NEMA 3R</td></tr><tr><td>OC</td><td>ON CENTER</td></tr><tr><td>ORT</td><td>OPEN ROAD TOLLING</td></tr><tr><td>Ø</td><td>PHASE</td></tr><tr><td>P</td><td>POLE</td></tr><tr><td>PCB</td><td>POLYCHLORINATED BIPHENYL</td></tr><tr><td>PNL</td><td>PANEL</td></tr><tr><td>PVC</td><td>POLYVINYL CHLORIDE</td></tr><tr><td>RECEPT.</td><td>RECEPTACLE</td></tr><tr><td>RGS</td><td>RIGID GALVANIZED STEEL</td></tr><tr><td>RTC</td><td>ROADSIDE TOLLING CABINET</td></tr><tr><td>RMS</td><td>ROOT MEAN SQUARED</td></tr><tr><td>SB</td><td>SOUTHBOUND</td></tr><tr><td>SCADA</td><td>SUPERVISORY CONTROL & DATA ACQUISITION</td></tr><tr><td>SCH.</td><td>SCHEDULE</td></tr><tr><td>SCP</td><td>SCADA CONTROL PANEL</td></tr><tr><td>SCTE</td><td>SOCIETY OF CABLE TELECOMMUNICATIONS ENGINEERS</td></tr><tr><td>SD</td><td>SQUARE D</td></tr><tr><td>SER</td><td>SERVICE ENTRANCE RATED</td></tr><tr><td>SPD</td><td>SURGE PROTECTIVE DEVICE</td></tr><tr><td>SPEC(S)</td><td>SPECIFICATION(S)</td></tr><tr><td>S.P.S.T.</td><td>SINGLE POLE SINGLE THROW</td></tr><tr><td>S.S.</td><td>STAINLESS STEEL</td></tr><tr><td>STP</td><td>SHIELDED TWISTED PAIR</td></tr><tr><td>SQ.</td><td>SQUARE</td></tr><tr><td>STFE</td><td>STATE TOLL FACILITY ENGINEER</td></tr><tr><td>SYMM.</td><td>SYMMETRICAL</td></tr><tr><td>T.E.C.</td><td>TOLL EQUIPMENT CONTRACTOR</td></tr><tr><td>T&H</td><td>TEMPERATURE AND HUMIDITY SENSOR</td></tr><tr><td>T.O.</td><td>TOLL OPERATIONS</td></tr><tr><td>TSP</td><td>TECHNICAL SPECIAL PROVISIONS</td></tr><tr><td>TYP.</td><td>TYPICAL</td></tr><tr><td>UL</td><td>UNDERWRITERS LABORATORIES</td></tr><tr><td>UON</td><td>UNLESS OTHERWISE NOTED</td></tr><tr><td>UPS</td><td>UNINTERRUPTIBLE POWER SUPPLY</td></tr><tr><td>V</td><td>VOLTS</td></tr><tr><td>VAC</td><td>VOLTS ALTERNATING CURRENT</td></tr><tr><td>VDAC</td><td>VEHICLE DETECTION AND CLASSIFICATION UNIT</td></tr><tr><td>VES</td><td>VIOLATION ENFORCEMENT SYSTEM</td></tr><tr><td>VSS</td><td>VIDEO SURVEILLANCE SYSTEM</td></tr><tr><td>W</td><td>WIRE; WATT</td></tr><tr><td>W/</td><td>WITH</td></tr><tr><td>WP</td><td>WEATHERPROOF (NEMA 3R)</td></tr><tr><td>XFMR</td><td>TRANSFORMER</td></tr></table>							N.C.	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PENSACOLA BEACH GATEWAY
TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

Jacobs.

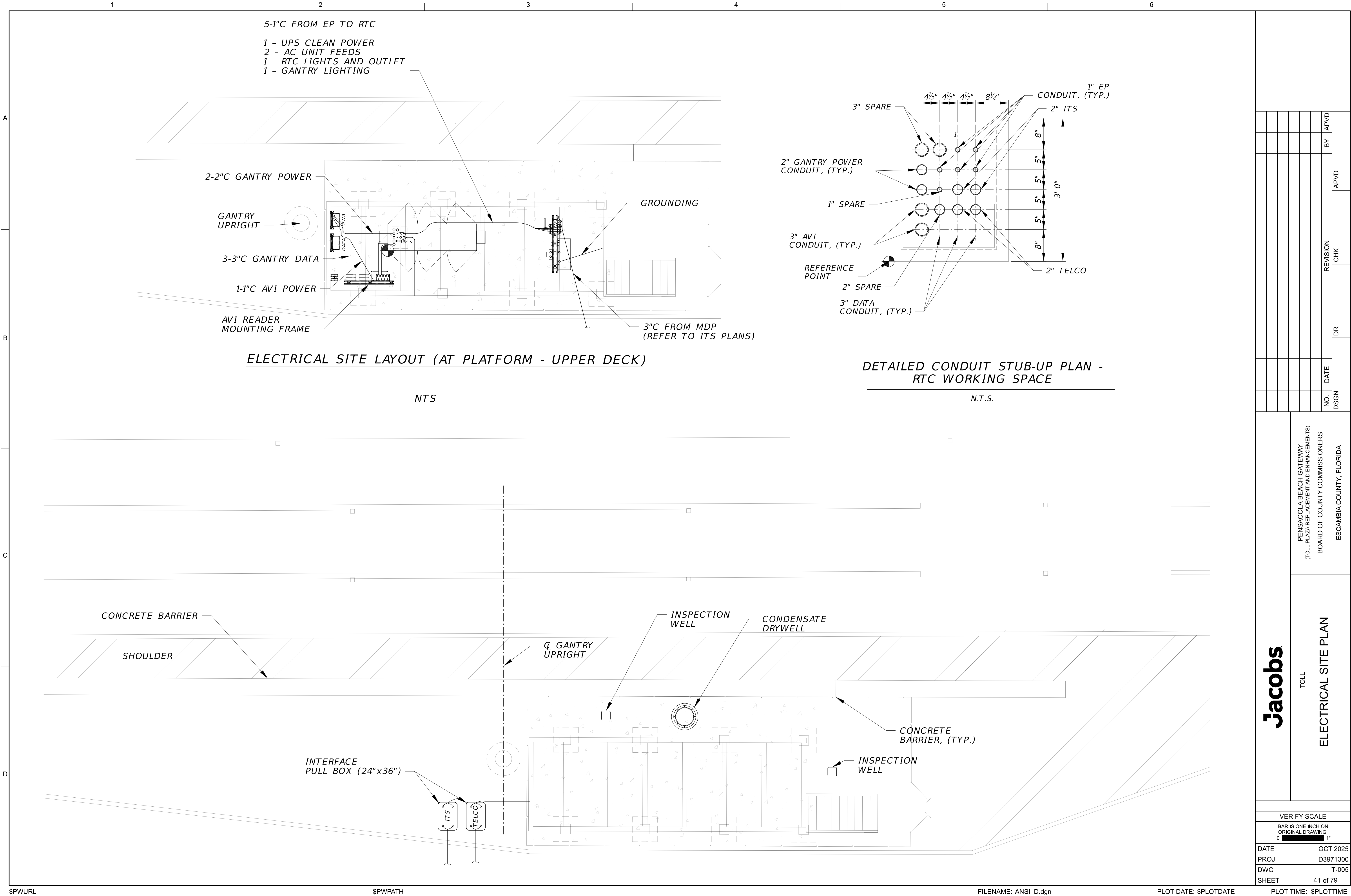
TOLL

OVERALL SITE PLAN

100% DESIGN DOCUMENTS

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VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	OCT 2025
PROJ	D3971300
DWG	T-003
SHEET	39 of 79
PLOT TIME: \$PLOTTIME	



JACOBS

TOLL

ELECTRICAL SITE PLAN

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE: OCT 2025
PROJ: D3971300
DWG: T-005
SHEET: 41 of 79

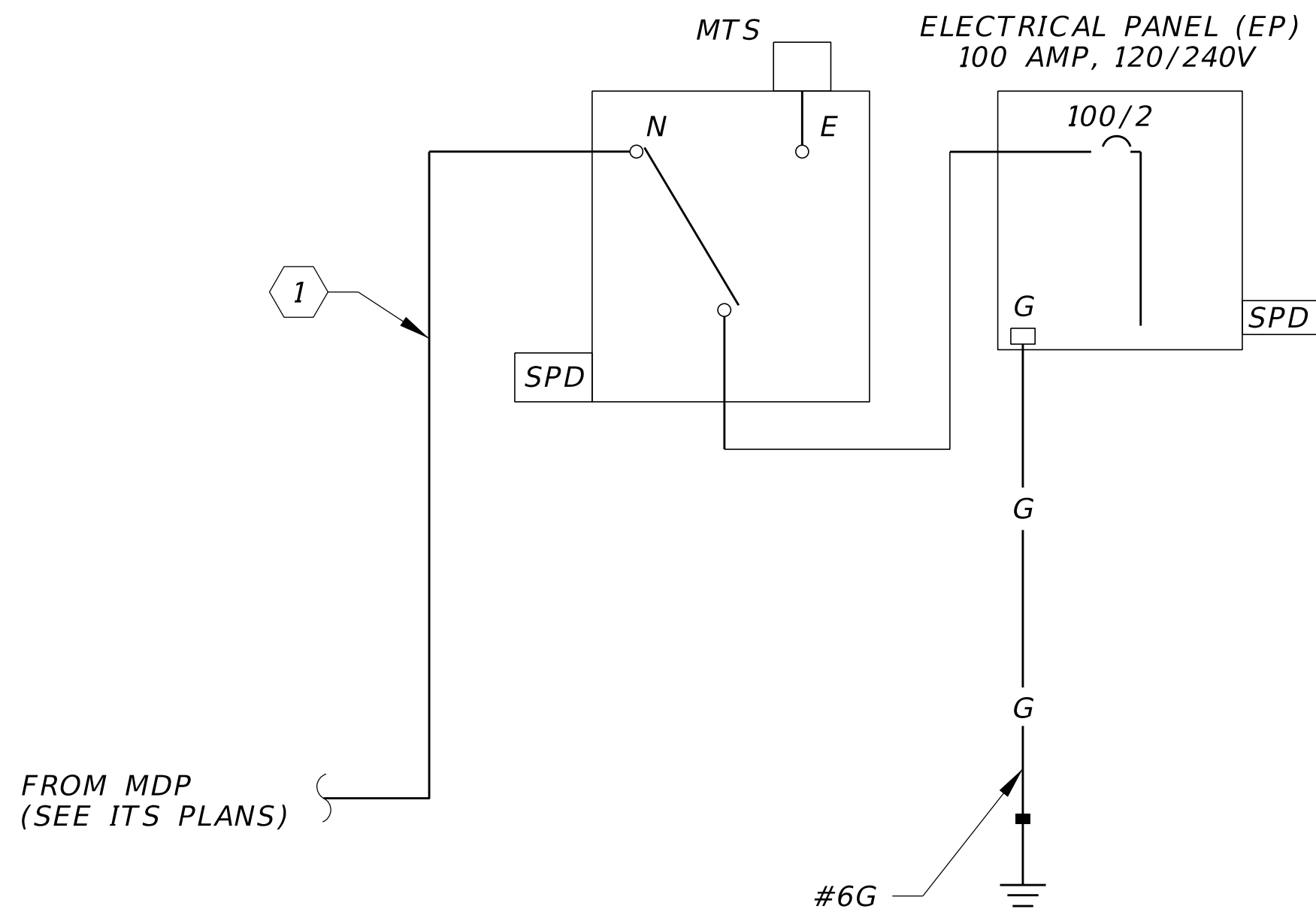
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100% DESIGN DOCUMENTS

PANELBOARD: <u>EP</u>					SUPPLY VOLTAGE (P TO P): <u>240</u>										
LOCATION: <u>TOLLWAY SITE</u>					SUPPLY VOLTAGE (P TO N): <u>120</u>										
MOUNTING: <u>SURFACE / RACK</u>					BUS AMPS: <u>100A</u>										
DESCRIPTION	VA		BREAKER		CKT. NO.	BUS		CKT. NO.	BREAKER		VA		DESCRIPTION		
	A	B	POLE	AMPS		A	B		POLE	AMPS	A	B			
5KVA UPS - RTC	2520	--	2	30	1	●		2	2	20	1920	--	A/C #1 - RTC		
	--	2520			3		●	4			--	1920			
	1000	--			5	●		6			1920	--			
AVI	--	1000	2	20	7		●	8	2	20	--	1920	A/C #2- RTC		
	0	--			9	●		10			1	20		480	--
SPD SEE NOTE 1	--	0	2	30	11		●	12			--	0	LTS/RCPT		
	0	--			13	●		14			0	--	SPACE		
SPACE	--	0			15		●	16			--	0	SPACE		
SPACE	0	--			17	●		18			0	--	SPACE		
SPACE	--	0			19		●	20			--	0	SPACE		
SPARE	0	--			21	●		22			0	--	SPACE		
SPACE	--	0			23		●	24			--	0	SPACE		
TOTAL (1)		3520	3520	TOTAL (2)										4320	3840
TOTAL PHASE A VA		7840	CURRENT PHASE A: 32.67					MAIN LUGS:							
TOTAL PHASE B VA		7360	CURRENT PHASE B: 30.67					THROUGH-FEED LUGS: N/A							
TOTAL PANEL CURRENT: 63.33													MAIN BREAKER: <u>100A</u>		
DESIGN KVA: 15.2													FEEDER ENTRANCE: <u>BOTTOM</u>		
													FEEDER SIZE: <u>#2</u>		
													SOURCE: <u>MDP</u>		
													SHORT CIRCUIT RATING: <u>22KAIC</u>		

NOTES

- ## 1. SIZE BREAKER FOR SPD TYPE 2 MANUFACTURER'S INSTRUCTIONS



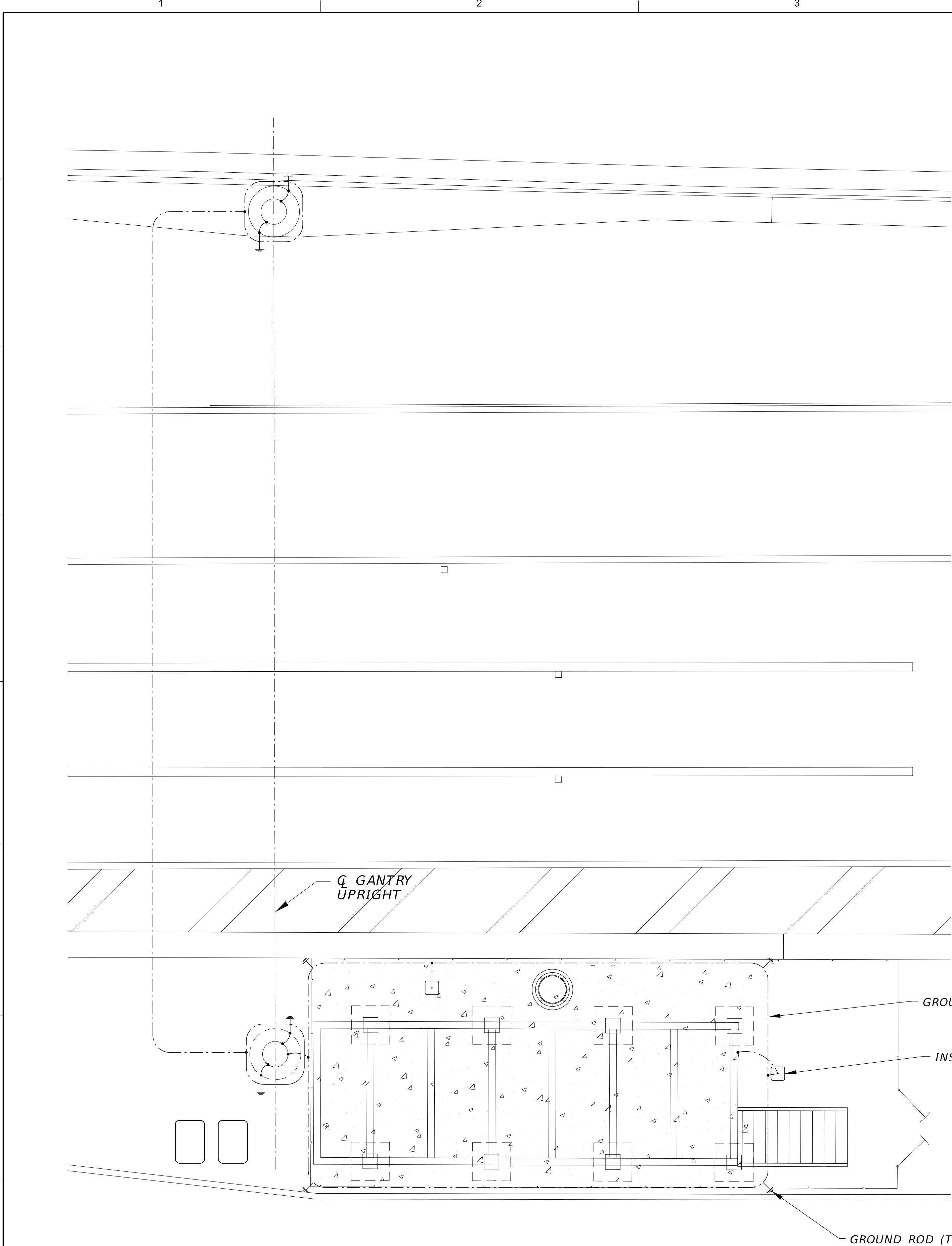
REFERENCE NOTES:

- | | |
|---|---|
| 1 | 3#2, 1#6G, 3"C |
| 2 | MANUAL TRANSFER SWITCH (MTS) 100A, 240V. PROVIDE CONNECTION BOX FOR FUTURE CONNECTION TO ROLLUP GENERATOR |

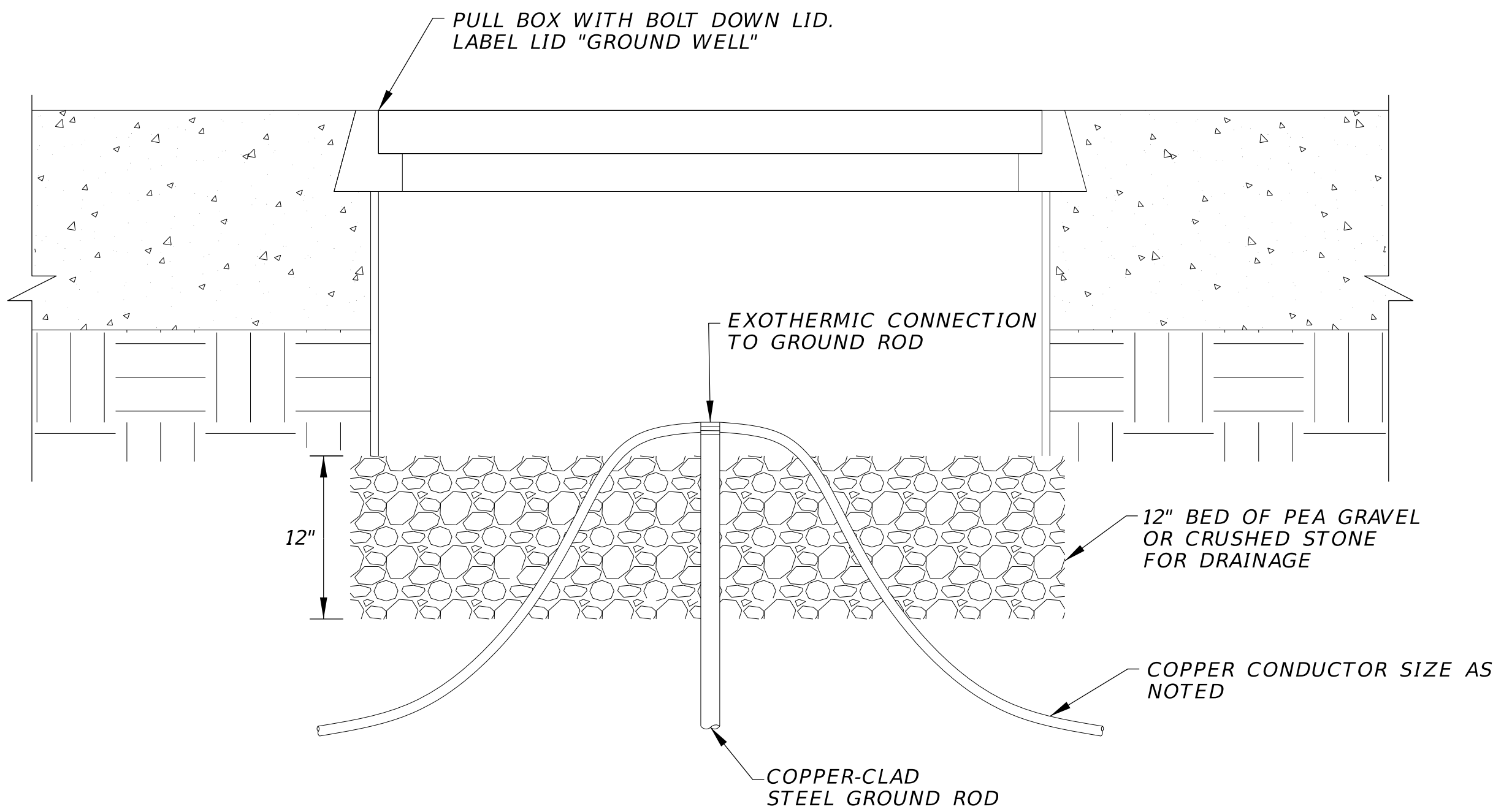
POWER RISER DIAGRAM

NOT TO SCALE

		TOLL POWER RISER DIAGRAM		PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS) BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA							
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"											
DATE				OCT 2025							
PROJ				D3971300							
DWG				T-008							
SHEET				44 of 79							



2 LIGHTNING PROTECTION PLAN
SCALE: NTS



2 GROUND INSPECTION WELL DETAIL
SCALE: NTS

REFERENCE NOTES:

1. STRANDED COPPER LIGHTNING PROTECTION CONDUCTORS. BONDED TO GANTRY COLUMN.
2. 20' LONG X 5/8" DIAMETER COPPER CLAD STEEL GROUND ROD.
3. STRANDED COPPER CONDUCTOR, 36" BELOW FINISHED GRADE.

Jacobs

TOLL
GROUNDING & LIGHTNING
PROTECTION DETAILS

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE OCT 2025

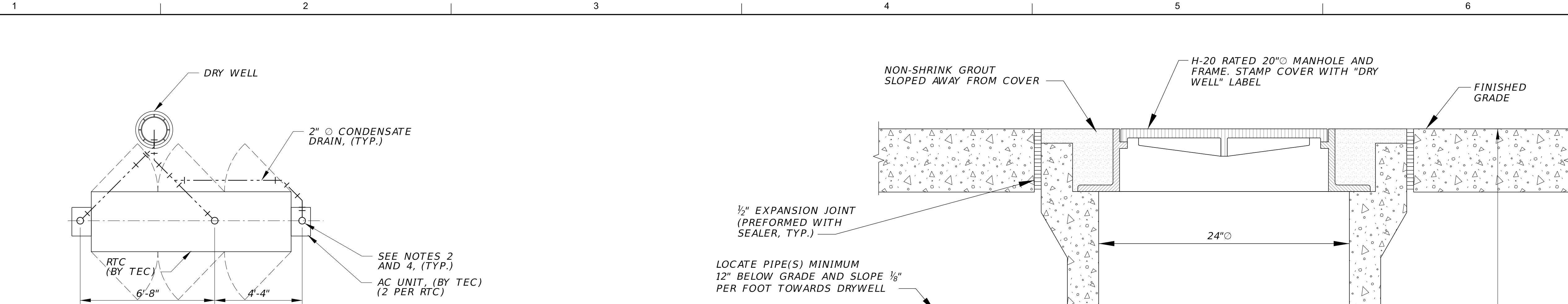
PROJ D3971300

DWG T-010

SHEET 46 of 79

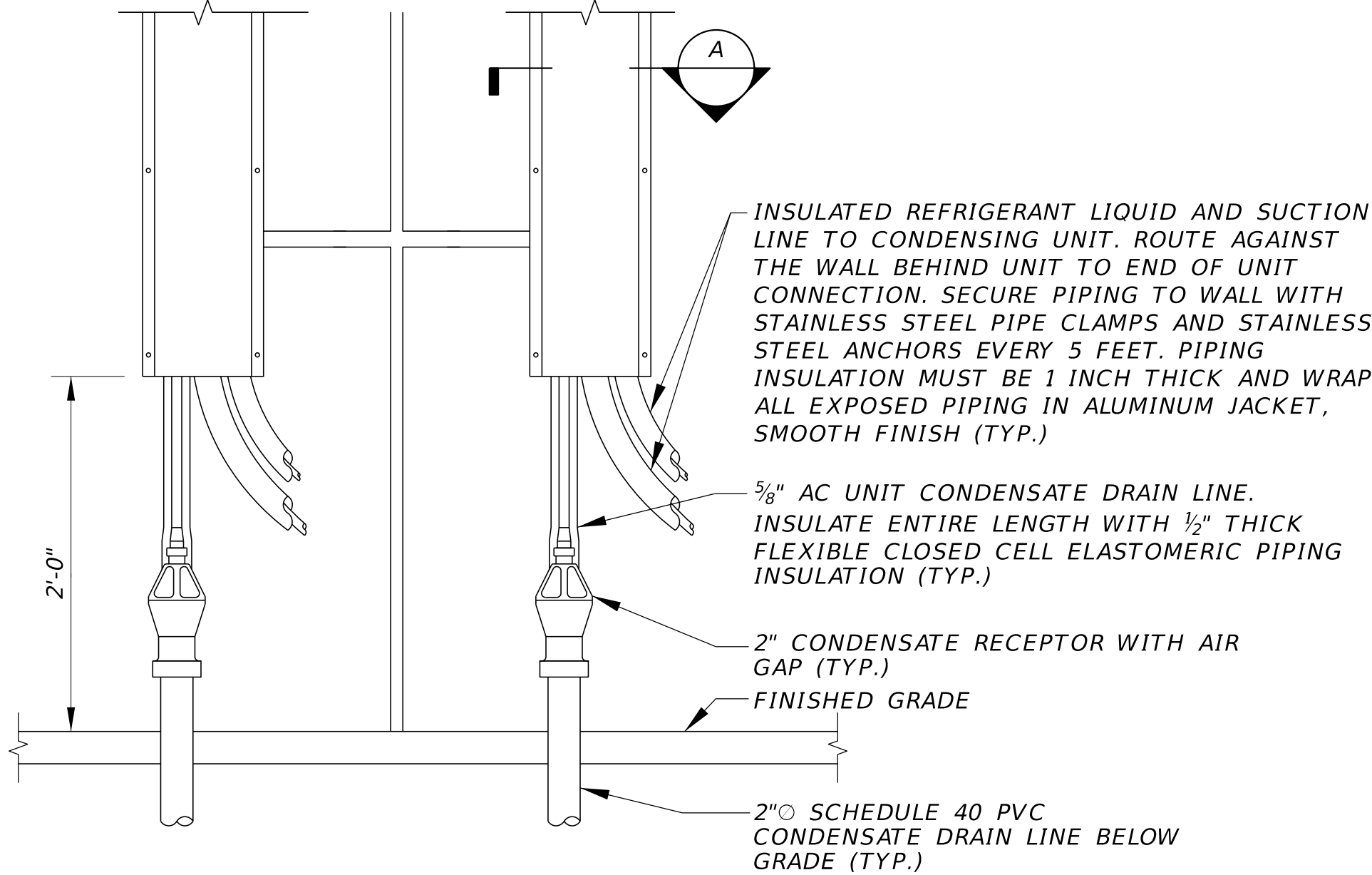
100% DESIGN DOCUMENTS

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REFERENCE NOTES:

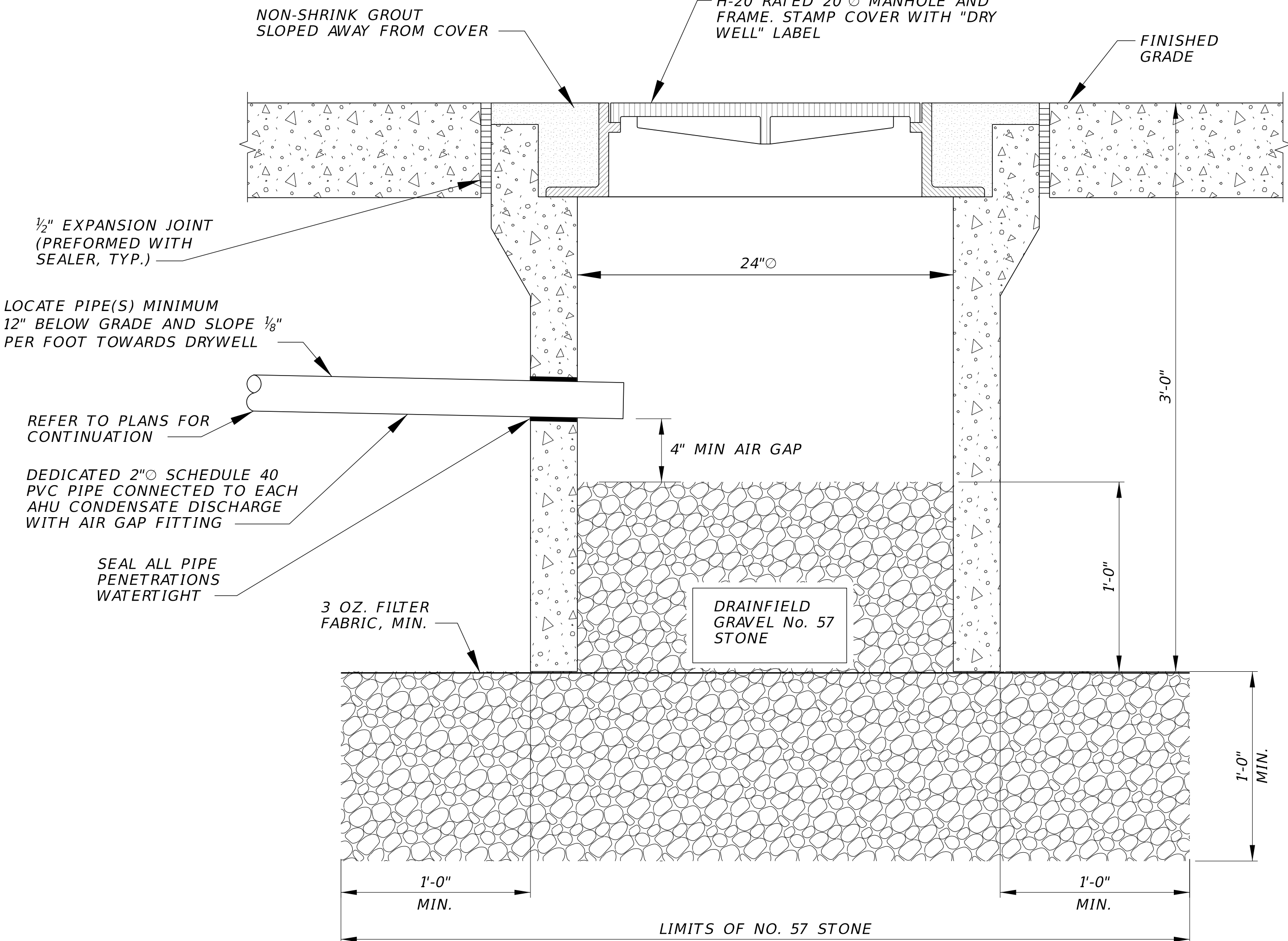
- 2" DIAMETER SCHEDULE 40 PVC CONDENSATE DRAIN LINE ROUTED UNDERGROUND TO IN-GROUND CONDENSATE DRY WELL. MINIMUM DRAIN LINE SLOPE MUST BE 1/8" PER FOOT.
- CONDENSATE DRAIN STUB-UP LOCATION, TYPICAL.
- PROVIDE "TBD" DIMENSIONS BASED ON SPECIFIED EQUIPMENT.
- INSTALL TOP OF CONDENSATE DRAIN STUB-UP FLUSH WITH TOP OF SLAB. PROVIDE REMOVABLE CAPS ON ALL UNUSED DRAIN STUB-UPS. CAPS MUST BE FLUSH WITH TOP OF SLAB.



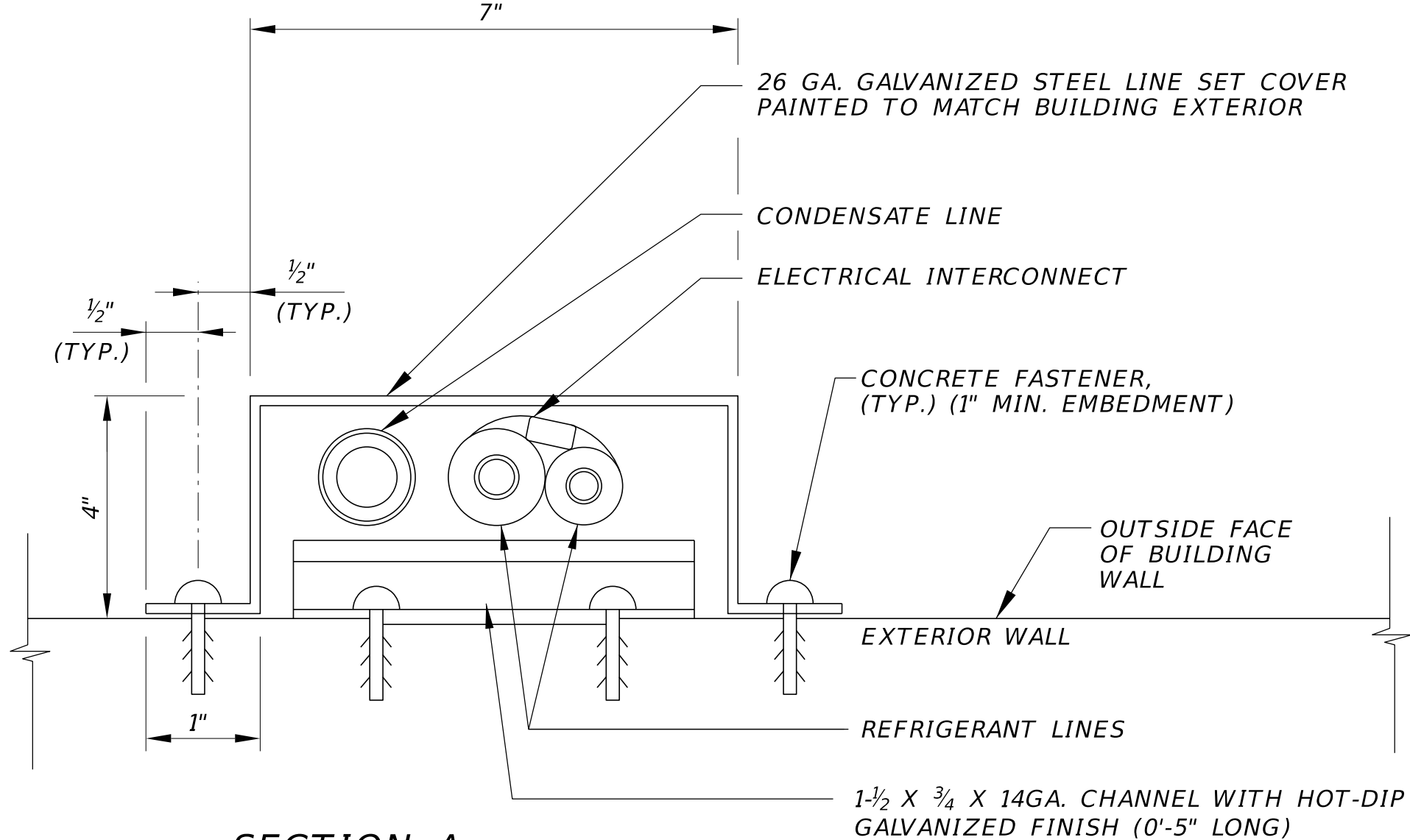
1 AC EQUIPMENT AND CONDENSATE PIPING DETAIL
SCALE: NTS

REFERENCE NOTES:

- ALL HARDWARE MUST BE STAINLESS STEEL AND SUPPORT FRAME SHALL BE CONSTRUCTED OF STAINLESS STEEL. (BOLTS, NUTS, STRAPS, ANCHORS, SUPPORT FRAME, ETC.)
- MOUNT BOTTOM OF CONDENSING UNIT FRAME AT A MINIMUM OF 6" A.F.G.
- COORDINATE FINAL LENGTHS OF ALL SUPPORT FRAME COMPONENTS WITH FINAL DIMENSIONS OF MECHANICAL EQUIPMENT.



2 CONDENSATE DRYWELL DETAIL
SCALE: NTS



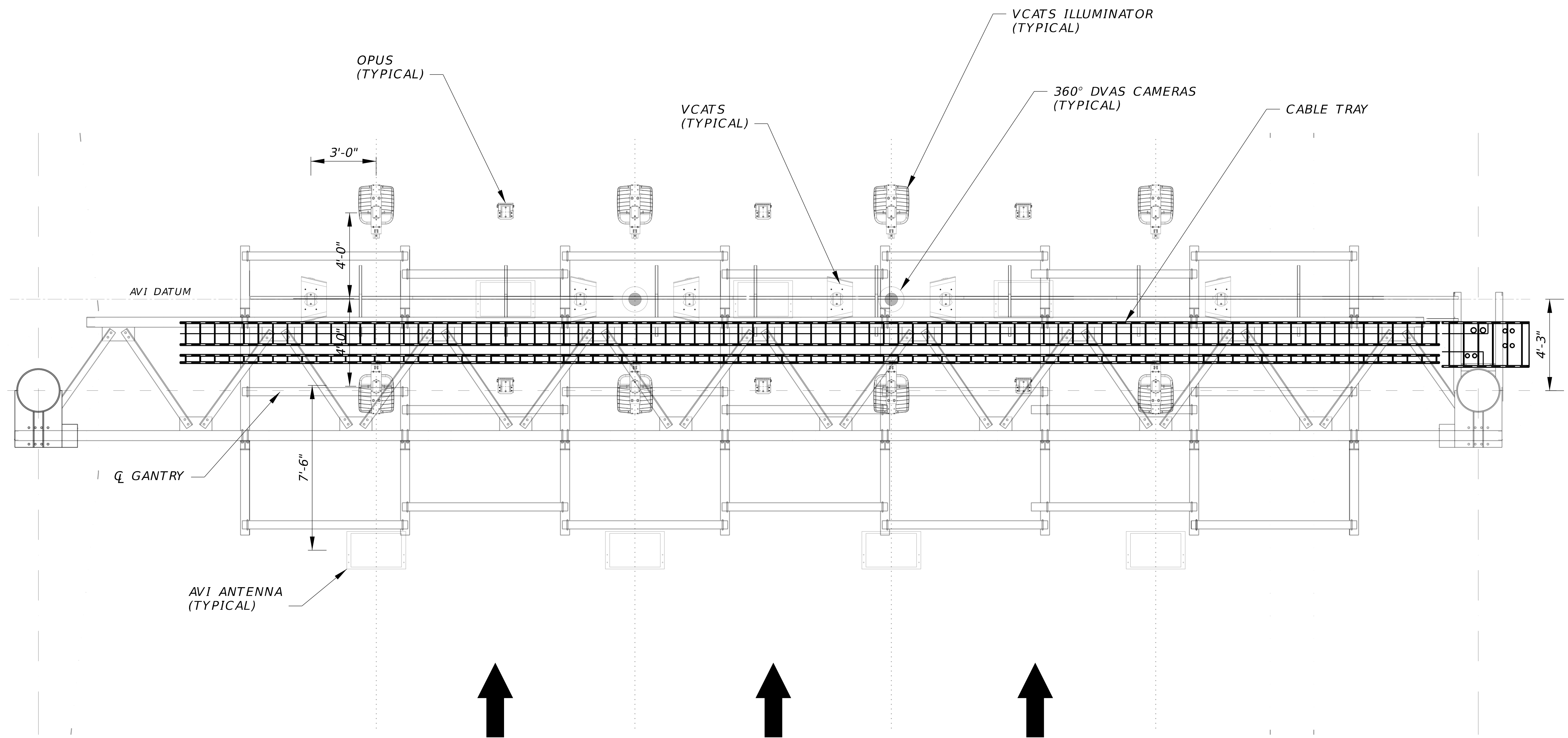
SECTION A
SCALE: NTS

JACOBS

TOLL
DRY WELL & AC CONDENSATE
PIPING DETAILS

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	OCT 2025
PROJ	D3971300
DWG	T-011
SHEET	47 of 79





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TOLL

GANTRY LIGHTNING
PROTECTION DETAILS

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DATE	SEPT 2025
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DWG	T-015
SHEET	51 of 79

1

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4

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6

GENERAL

1. Specifications and requirements listed below are fully incorporated and are intended to be applicable to the Work unless specifically noted otherwise within these documents. Provide written notification to EOR should any discrepancies arise and/or for any additional information or clarification that may be required.

CONSTRUCTION SPECIFICATIONS:

1. Florida Department of Transportation Standard Specifications for Road and Bridge Construction, 2025–26 Edition and supplements thereto.

DESIGN SPECIFICATIONS:

1. American Association of State Highway and Transportation Officials (AASHTO), "LRFD Bridge Design (LRFDBDS-10, 10th Edition, 2024) Specifications for Highway.

2. American Association of State Highway and Transportation Officials (AASHTO), "LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals" (LRFDLTS-1, 1st Edition).

3. The Aluminum Association Design Manual Specifications and Guidelines for Aluminum Structures (2010 Edition).

4. FDOT Design Manual (January 2025 Edition).

5. AISC Manual of Steel Construction (Fifteenth Edition).

6. FDOT Structures Manual, January 2025.

7. FDOT Standard Plans, Dated FY 2025-26.

8. Florida Turnpike Enterprise General Tolling Requirements (GTR), 2023 Edition.

DESIGN LOADINGS:

1. Dead Loads:

- Structural steel = 490 PCF

- Aluminum = 175 PCF

- Concrete = 150 PCF

- Toll equipment: Concentrated load of 67 lbs. at each equipment location

- Electrical/data cable trays & Miscellaneous: Uniform load of 50 plf along the front two chords and 100 plf along the back chord.

2. Wind Loads:

- AASHTO "LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals", Wind Speed (3-second gust) = 173 mph (1700-year Mean Recurrence Level).

- Fixed Signs and Support = (1) Future 10' x 12' Sign centered over combined travel lanes in each direction.

TOLLING INFRASTRUCTURE CRITERIA:

1. Limit the natural frequency of any element that supports the equipment to less than 500 Hz. Equipment is defined as any electronic device that is mounted to the gantry.

2. Limit displacements when the structure is subjected to a wind load of 30 mph such that the averaged effect on the highest and lowest superstructure chords shall be within the following two limits.

- Movement of any point along the chords shall not exceed 1.25" relative to the position of any other point along the chords

- Rotational orientation of any point along the chords shall not exceed 8 milliradians (0.47 degrees) relative to the rotational orientation of that point at rest, for all three rotational axes.

ALUMINUM:

1. All aluminum materials shall meet the requirements of the Aluminum Association's Alloy 6061-T6 for tubes, and also the following ASTM Specifications (unless otherwise noted):

- Sheets = 5052

- Plates = B209

- Extruded Tube, Bar, Rod and Shapes = B221

- Structural Shapes = B308

2. Welding Rods shall meet the requirements of Aluminum Association Alloy No. 5556 Filler Wire.

3. The proportioning of weld details and the operation of welding shall be in accordance with the Current Edition of the AWS Structural Welding Code D1.2–Aluminum.

REINFORCING STEEL:

1. All Reinforcing Steel shall be ASTM A615, Grade 60.

2. All dimensions pertaining to location of reinforcing steel are to centerline of bars except where clear dimension is noted to face of concrete.

3. Reinforcing Steel detail dimensions are out-to-out of bars.

4. Cover on Reinforcing Steel as follows, unless noted otherwise:

- Substructure 3 in. External Formed Surfaces

- Substructure 4 in. External Surfaces Cast Against Earth

- Substructure 6 in. Drilled Shafts

5. Concrete cover shown in the plans does not include reinforcement placement and fabrication tolerances unless shown as "minimum cover". See FDOT Standard Specifications for Allowable Reinforcement Placement Tolerances.

CONCRETE:

1. Concrete (unless noted otherwise):

FDOT Concrete Class	Minimum 28-Day Compressive Strength (PSI)	Location
II	F'c = 3,400	Concrete In-Fill
IV	F'c = 4,000	Drilled Shafts & Median Barrier

2. Provide 3/4" chamfers on all exposed edges, unless noted otherwise.

3. Construction joints will be permitted only at locations indicated on plans. Additional construction joints or alterations to those shown shall require written approval of the engineer.

DIMENSIONS AND ELEVATIONS:

1. All dimensions are measured horizontally and vertically unless noted otherwise.

4. All dimensions are measured at mean temperature of 70° F.

3. Elevations are in feet, and are based on the North American Vertical Datum (NAVD) of 1988.

STRUCTURAL STEEL:

1. Shop fabrication, assembly, handling, and shipping:

a. Do not begin fabrication before receiving shop drawing approval.

b. Welding: Conform to American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition)

c. Shop assemble the entire structure after galvanizing and prior to shipment.

d. If necessary, disassemble and secure components for shipment.

2. Gantry structure materials:

a. Uprights and chords (steel pipe): API-5L-X42 (42 ksi yield) or ASTM A500, Grade C

b. Steel angles: ASTM A709, Grade 50

c. Steel plates: ASTM A709, Grade 36

d. Weld metal: E70XX

e. Bolts: ASTM F3125, Grade A325 Type 1, (install per specification section 700) with single self-locking nuts.

f. Anchor bolts: ASTM F1554, Grade 55 with ASTM A563 grade A heavy-hex double nuts.

g. Install all nuts per manufacturer's instructions.

h. Bolt hole diameters: equal to the bolt diameter plus 1/16".

i. Anchor bolt hole diameters: equal to the bolt diameter plus 1/2".

j. Use of split lock washers is not permitted.

3. Galvanization

a. Toll gantry and cabinet support structures within the Project Limits shall be galvanized per the Design Standards. Structural steel framing for the gantry, platform, platform & access stair guard rails, and associated connections, shall be coated with a high-performance industrial coating system with a minimum 10.0 mil total Dry Film Thickness (DFT), consisting of a 4.0–6.0 mil DFT primer coat of high build Polyamide Epoxy followed by (1) intermediate coat of 4.0–6.0 mil DFT with high build Polyamide Epoxy followed by (1) finish coat 2.0–3.0 mil DFT with high-solids Thermoset Fluoroploymer Polyurethane coating. Color to be as determined by Escambia County from manufacturer's full range of standard colors. Galvanized steel surfaces to be painted shall be prepared per SSPC-SP 1 (Solvent Cleaning) followed by SSPC-SP 16 (Brush Off Blast Cleaning) in accordance with coating manufacturer's recommendations. Any areas cleaned to bare metal, or where corrosion is present, shall be cleaned per SSPC-SP 10 (Near White Blast Cleaning) with all edges feathered, Galvanized surface profile shall be 1.5 mils. Areas cleaned to bare metal shall be coated with spot primer coat of Organic Zinc-Rich Urethane Primer with a minimum 2.5–3.5 mil DFT prior to application of coating system listed above.

b. Nuts, bolts, and washers: ASTM F2329

c. Other steel items: ASTM A123

4. Prior to erection, record the as-built anchor locations and provide to the engineer.

5. Provide a parabolic camber with the maximum upward deflection as shown on the camber diagram.

6. Location chord splices a minimum three truss panel lengths apart. Upright and Column splices are not allowed.

7. Refer to FDOT Standard Index 700-041 for additional span gantry structure details.

8. U-bolt material shall be as noted in the plans.

UTILITIES:

1. The utilities shown in the plans are at approximate locations. For additional information, refer to the roadway utilities plans.

2. Field verify utility locations before commencing with construction.

3. Ensure that any existing utilities that are not to be relocated are not endangered or disturbed during construction. Ensure all active utilities are properly maintained within the construction limits.

Jacobs

STRUCTURAL

GANTRY

GENERAL NOTES (1 OF 2)

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0

1"

DATE

SEPT 2025

PROJ

D3971300

DWG

S-001

SHEET

53 of 79

T. BRAXMEIER

J. WINKELMANN

B. ROWAN

DR

CHK

REVISION

BY

APVD

1

10/09/25

DATE

NO.

DSGN

UPDATED REFERENCE

TLB

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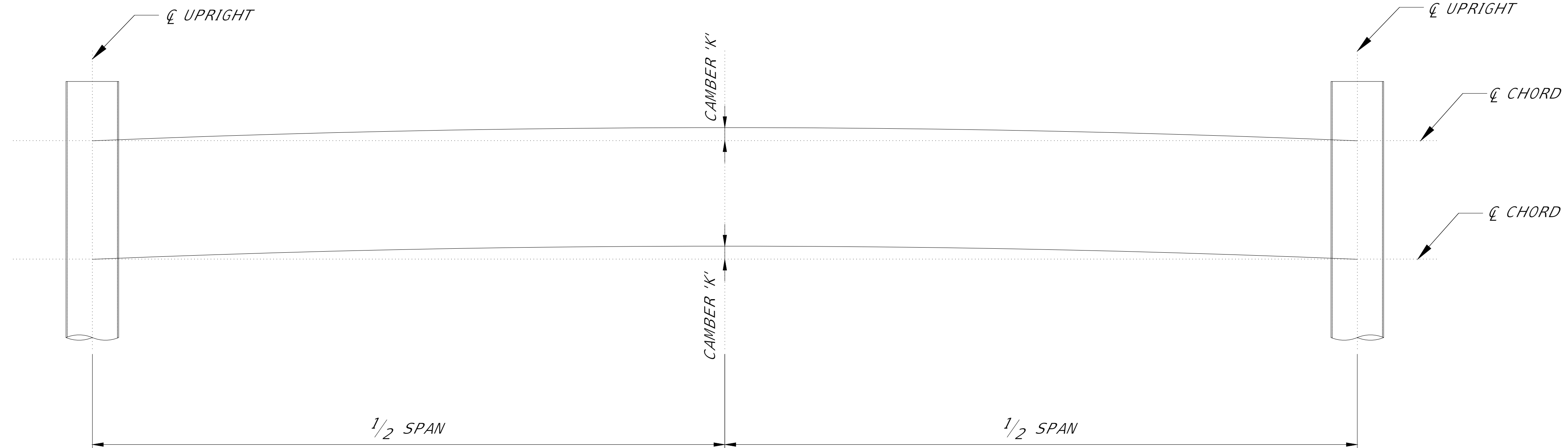
100% DESIGN DOCUMENTS

1. Sheets shall conform to ASTM A555, type 316. Plates shall conform to ASTM A240, type 304L. U-bolts shall be type 316. Structural shapes shall conform to ASTM A276, type 316L.
2. The proportioning of weld details and the operation of welding shall be in accordance with the current edition of the AWS Structural Welding Code D1.6 - Stainless Steel.

- Field verification of all upright heights
- All foundation elevations and the highest and lowest final pavement elevations of the gantry necessary to ensure minimum vertical clearance
- Anchor bolt orientation with respect to centerline of truss and the direction of traffic
- Equipment support elements
- The method used to provide the required parabolic camber
- Layout of the tolling equipment, field splices, W5x16 framing members, HSS 4.5" Ø pipe, and any other electrical equipment or structural member that could be in conflict with the toll equipment installation and operations.

1. Fabrication shall not begin before shop drawing approval.
2. No field welding shall be permitted.
3. No shop welding splices of main chords or uprights shall be permitted.
4. Welding: Conform to American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition).
5. The structure shall be shop assembled and inspected by the Department prior to shipping. Shop assembly shall occur after galvanization.
6. If necessary, disassemble and secure components for shipment.

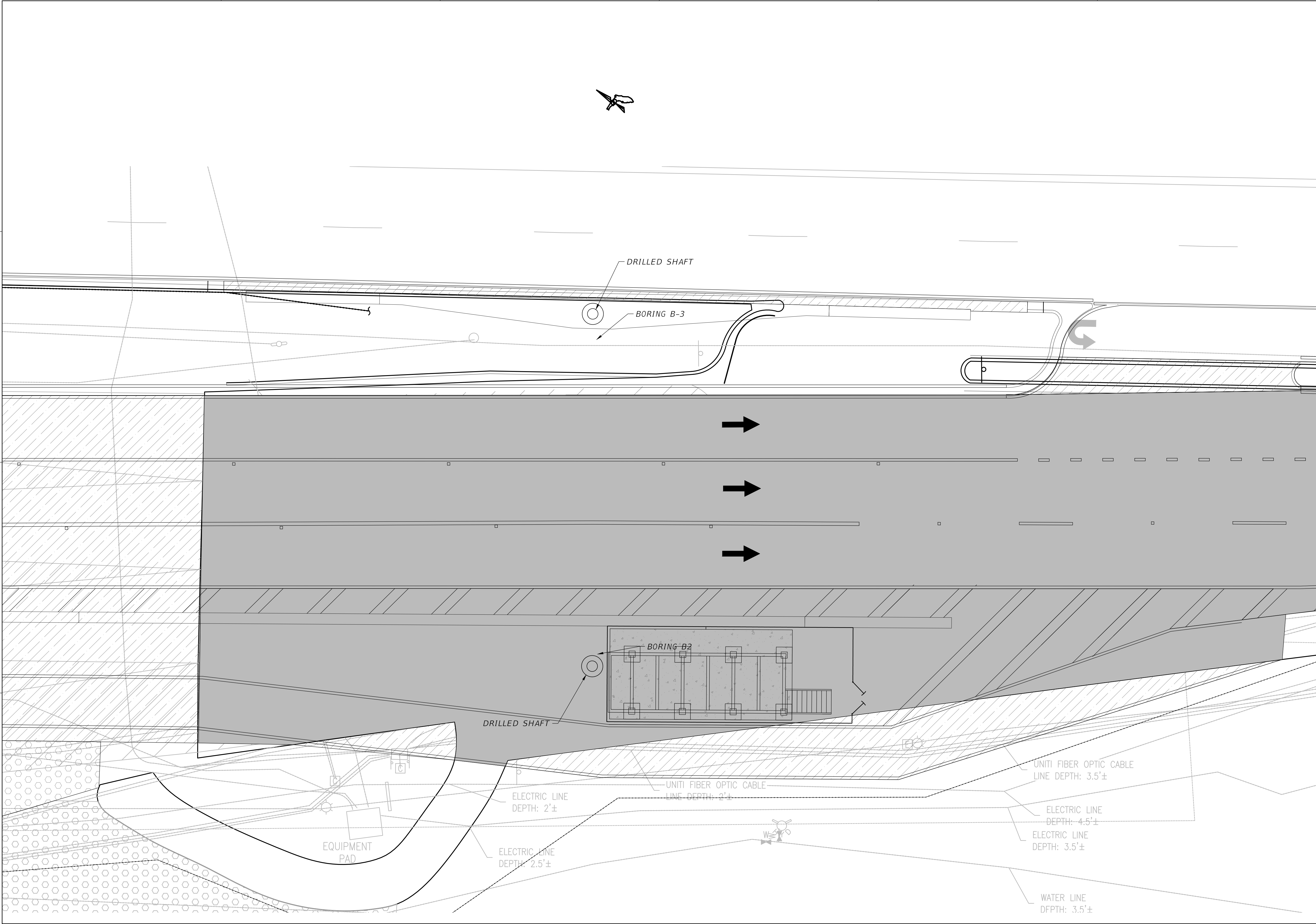
ASD	ALLOWABLE STRESS DESIGN
B.O.	BOTTOM OF
C.B.W.	CONCRETE BARRIER WALL
CJ	CONTROL JOINT
EB	EASTBOUND
EF	EACE FACE
EOL	EDGE OF LANE
ES	EACH SIDE
EW	END WALL
FB	FIELD BEND
FF	FAR FACE
GDR	GIRDER
HORIZ.	HORIZONTAL
IF	INSIDE FACE
LME	LOW MEMBER ELEVATION
LVC	LENGTH OF VERTICAL CURVE
MHC	MINIMUM HORIZONTAL DISTANCE
MVC	MINIMUM VERTICAL CLEARANCE
NF	NEAR FACE
OF	OUTSIDE FACE
OFM	OWNER FURNISHED MATERIAL
PMVC	POINT OF ACTUAL MINIMUM VERTICAL CLEARANCE
SBL	SLOPE BREAK LINE
SDG	STRUCTURES DESIGN GUIDELINES
SHLD	SHOULDER
SS	STAINLESS STEEL
TEC	TOLLING EQUIPMENT CONTRACTOR
T.O.	TOP OF
UNO	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VES	VIOLATION ENFORCEMENT SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM
WL	WORK LINE
WP	WORK POINT



1. CAMBER DIMENSION IS MEASURED TO THE HORIZONTAL ϵ OF THE CHORDS.
2. SEE S-600 FOR 'K' VALUE.
3. BACK CHORD NOT SHOWN FOR CLARITY.

 STRUCTURAL GANTRY GENERAL NOTES (2 OF 2)	PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS) BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA
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VERIFY SCALE	
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DATE	SEPT 2025
PROJ	D3971300
DWG	S-002
SHEET	54 of 79



JACOBS

STRUCTURAL

GANTRY SITE

BORING LOCATION PLAN

VERIFICATION SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE: SEPT 2025

PROJ: D3971300

DWG: S-102

SHEET: 57 of 79

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

NO. DATE DSGN

DR

REVISION

CHK

BY

APVD

T. BRAXMEIER

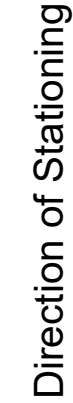
J. WINKELMANN

B. ROWAN

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1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 700-041. SEE S-600 FOR SPAN STRUCTURE TOLLING EQUIPMENT DATA TABLE.
2. LEFT AND RIGHT UPRIGHT DETERMINED WHEN FACING THE DIRECTION OF TRAVEL.
3. SEE CIVIL DRAWINGS FOR HORIZONTAL CURVE DATA.



DRILLED SHAFT DATA TABLE				
GANTRY	LOCATION	TOP OF C.B.W. ELEVATION*	TOP OF SHAFT ELEVATION	MINIMUM TIP ELEVATION
		FT	FT	FT
SOUTHBOUND	LEFT UPRIGHT	11.09	4.42	-14.58
	RIGHT UPRIGHT	-	8.07	-13.93

SYMBOL LEGEND:



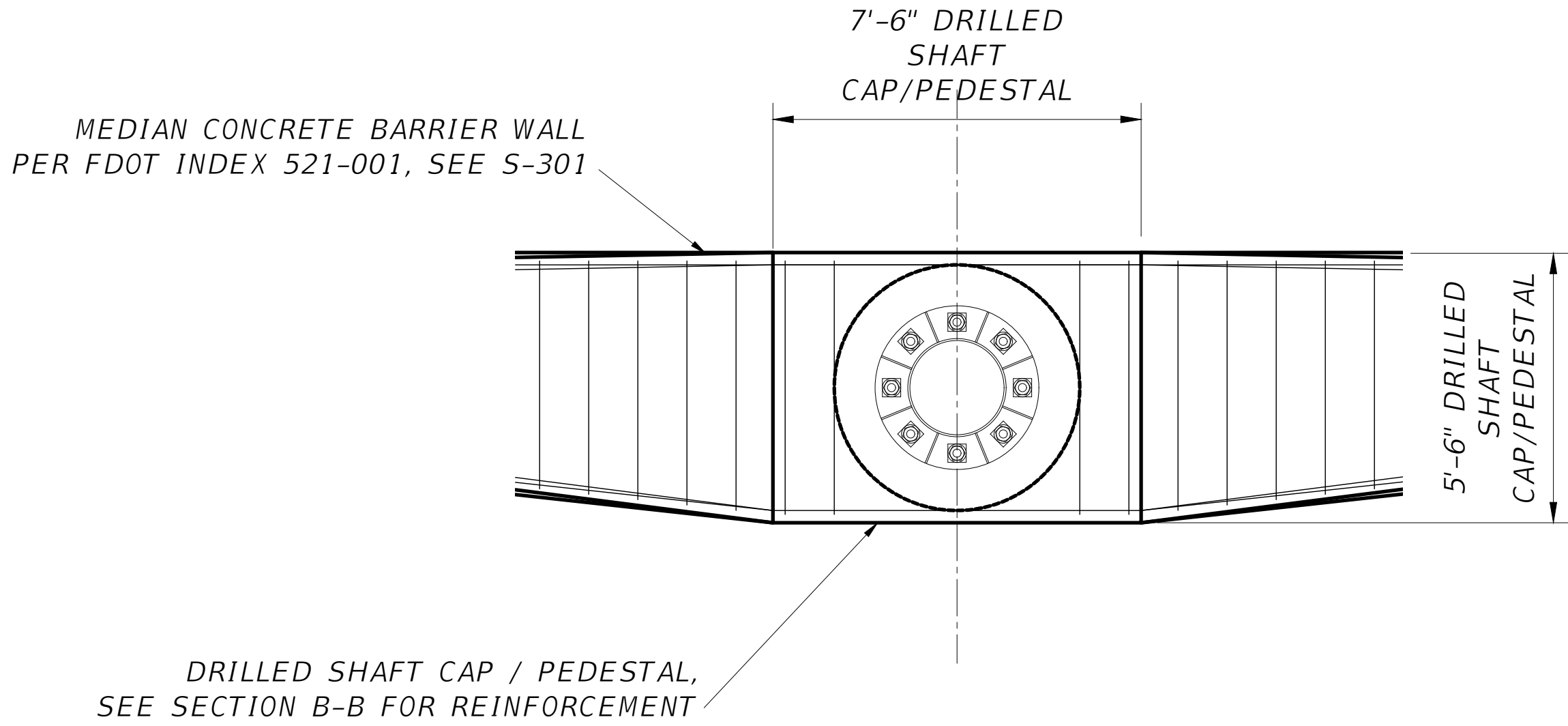
STRUCTURAL GANTRY SITE FOUNDATION LAYOUT

[illegible][illegible]

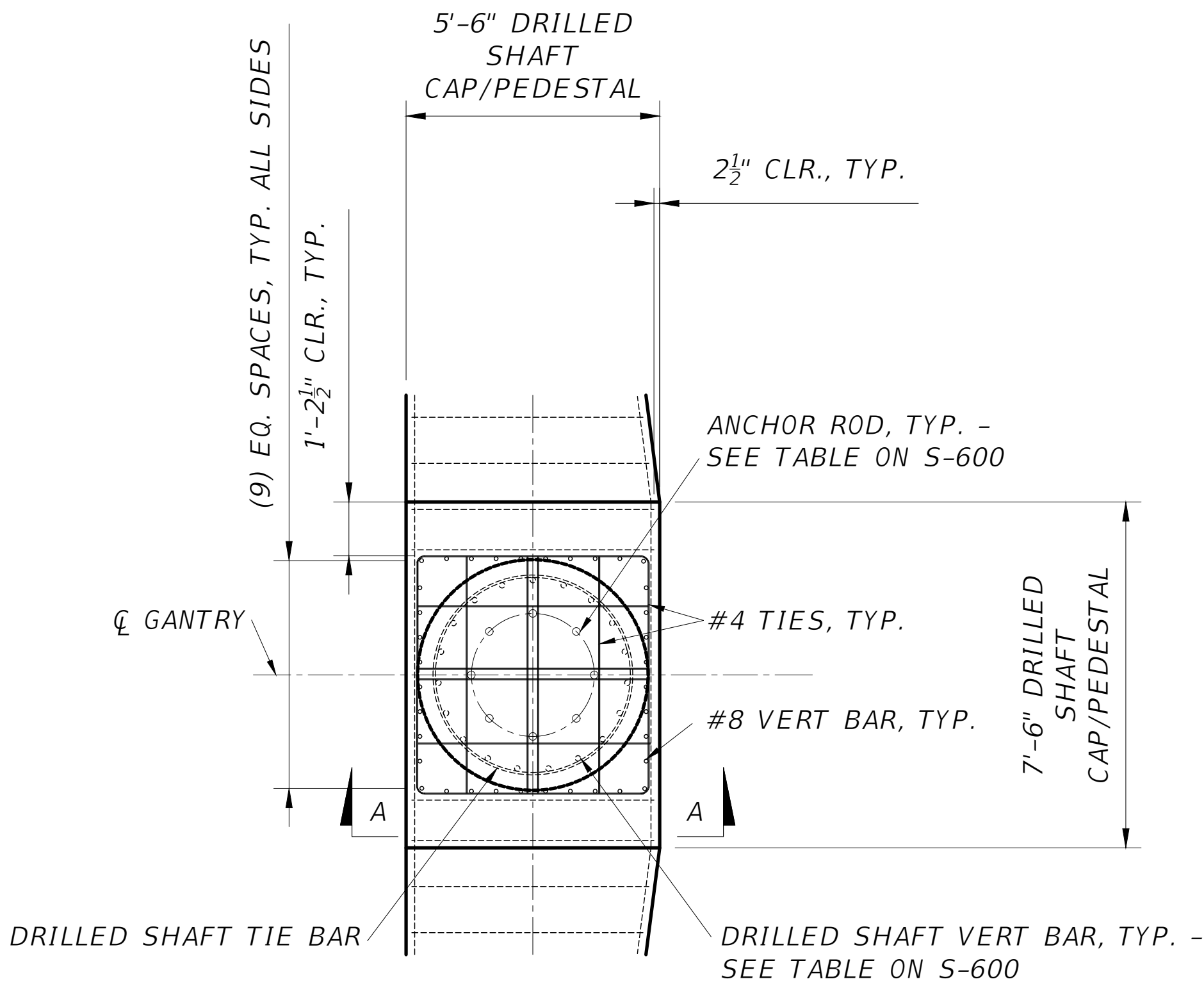
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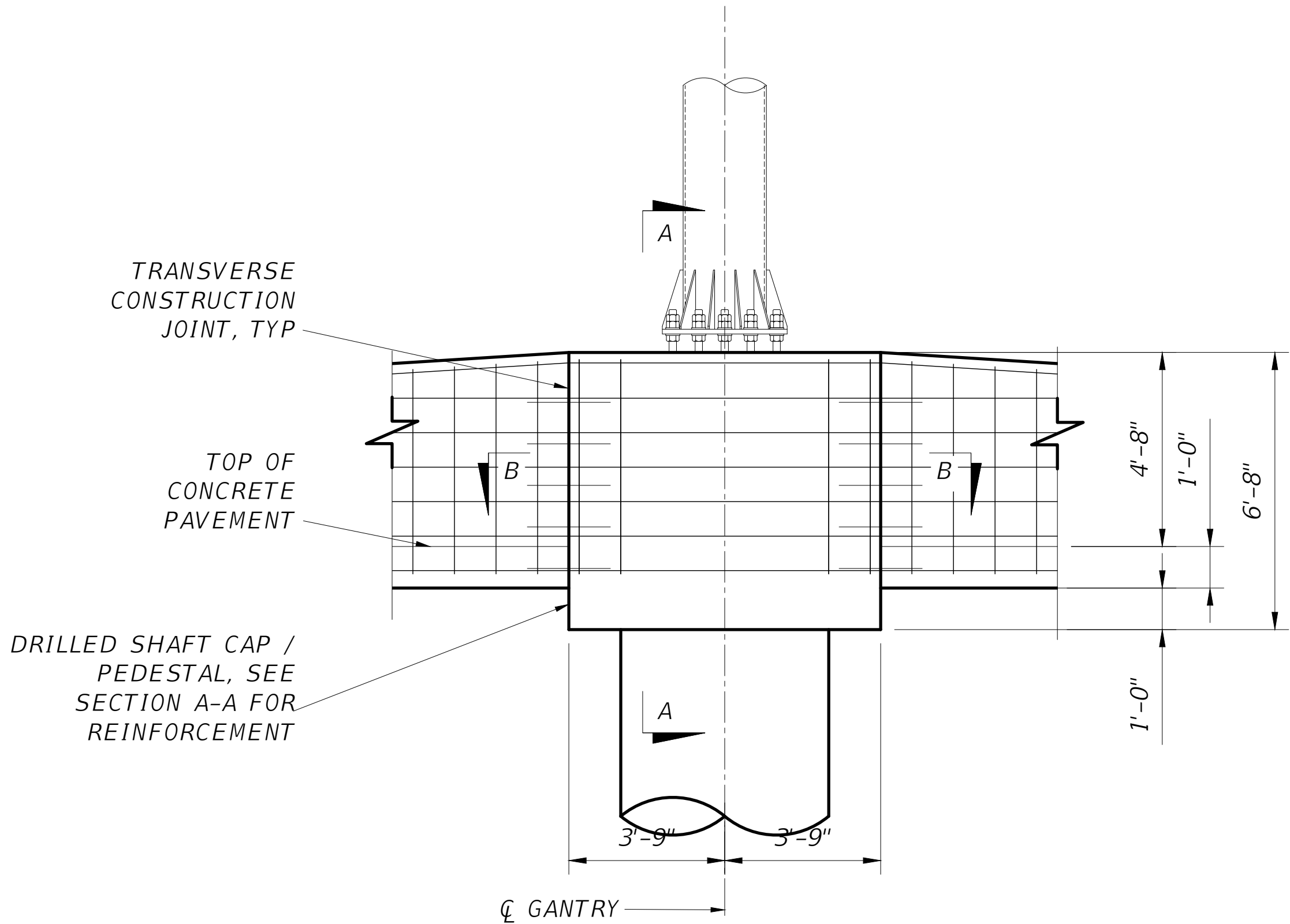
- NOTES:
- WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 521-001 & 700-041. SEE S-600 FOR SPAN STRUCTURE TOLLING EQUIPMENT DATA TABLE.
 - WIDTH IN SECTIONS A-A, B-B, AND C-C SHALL BE HELD CONSTANT.
 - SEE STANDARD INDEX 410, DETAIL B FOR INFORMATION ON DOWELED TRANSVERSE CONSTRUCTION JOINT.
 - THE CONTRACTOR SHALL UTILIZE CLASS IV (DRILLED SHAFT) CONCRETE FOR CONSTRUCTION OF THE DRILLED SHAFT CAP AND CONCRETE BARRIER WALL.
 - REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.
 - THE TOP SURFACE OF THE DRILLED SHAFT SHALL BE INTENTIONALLY ROUGHED TO A 1/4" MINIMUM AMPLITUDE.



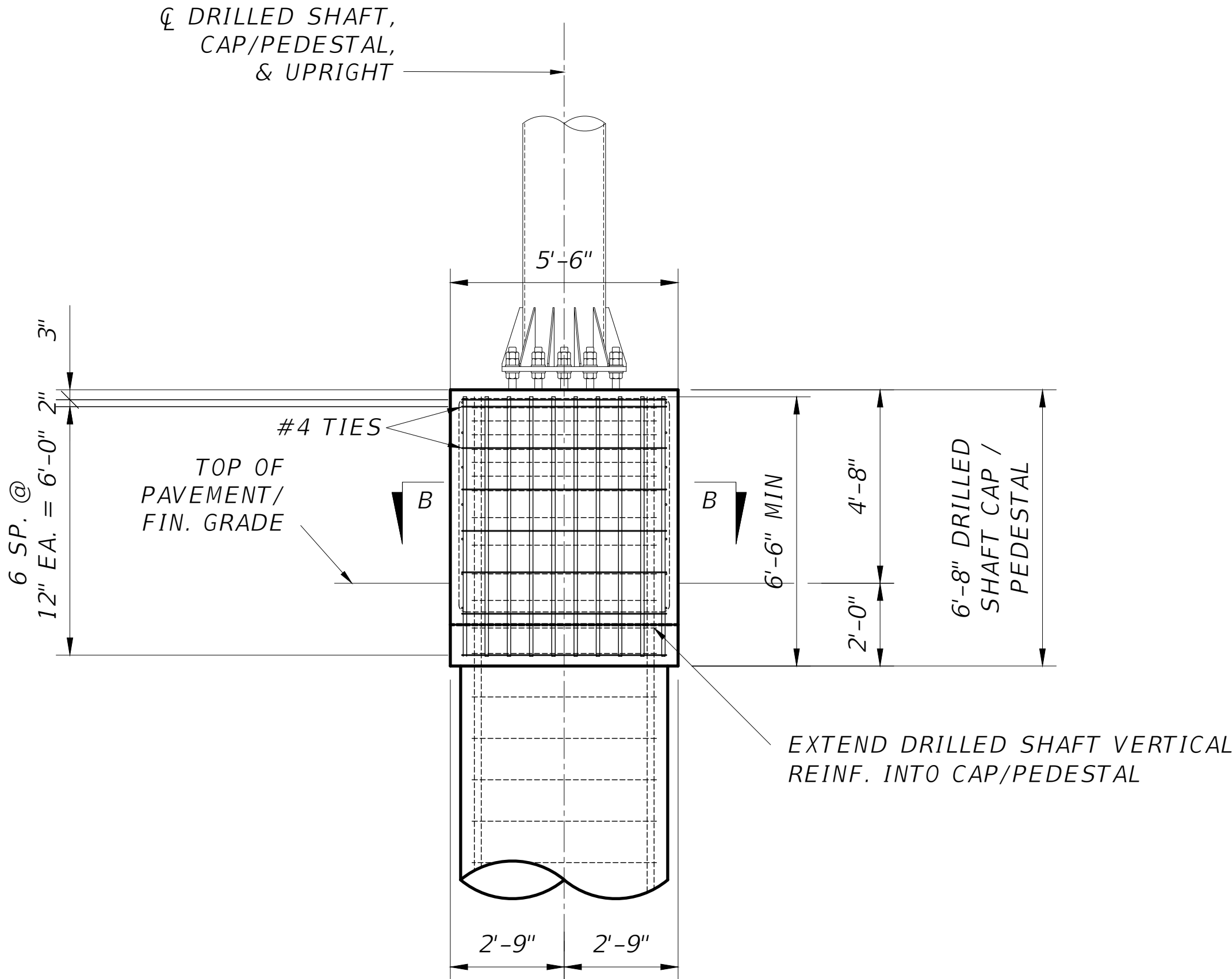
UPRIGHT DRILLED SHAFT CAP / PEDESTAL - PLAN



UPRIGHT DRILLED SHAFT CAP / PEDESTAL REINFORCEMENT PLAN - SECTION B-B



UPRIGHT DRILLED SHAFT CAP / PEDESTAL - SECTION



UPRIGHT DRILLED SHAFT CAP / PEDESTAL - SECTION A-A

Jacobs

TLB
GANTRY SITE
INTEGRAL WALL FOUNDATION

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

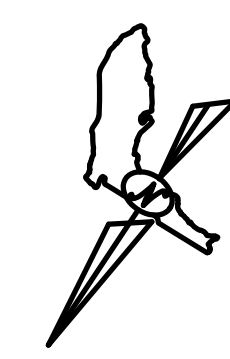
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-101
SHEET	56 of 79

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1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 700-041. SEE S-600 FOR TOLLING STRUCTURE DATA TABLE.
2. WIREWAYS NOT SHOWN FOR CLARITY.
3. LEFT AND RIGHT UPRIGHT DETERMINED WHEN FACING THE DIRECTION OF TRAVEL.
4. TOLL EQUIPMENT AND LOCATIONS SHOWN ARE BASED ON THE TRANSORE INFINITY SYSTEM. FINAL EQUIPMENT LAYOUT PENDING COORDINATION WITH TOLLING EQUIPMENT CONTRACTOR (TEC).



1. TOLL EQUIPMENT LOCATION IS BASED ON THE CENTER OF THE EQUIPPED LANE / SHOULDER.
2. J-ARM LOCATION IS BASED ON THE MOUNTING REQUIREMENTS OF THE TOLL EQUIPMENT.
3. ANTENNAS AND DVAS ARE NOT REQUIRED OVER THE EDGE OF THE TOLL LOOP PAVEMENT AREA.
4. TOLL EQUIPMENT CAN BE MIRRORED ABOUT THE CENTER ON THE LANE.
5. THE ANTENNAS, OPUS, VCATS AND CREE LIGHTING J-ARM CONNECTION POINTS MAY BE SHIFTED HORIZONTALLY WITHIN THE LIMITS OF THE MOUNTING HARDWARE TO MITIGATE CONFLICT WITH STRUCTURAL ELEMENTS. SEE EXHIBITS 252.1-3 AND 252.1-4.
6. TOLL EQUIPMENT IS NOT REQUIRED FOR SHOULDER WIDTHS LESS THAN 6 FEET.

V VCATS
VI VCATS ILLUMINATOR
O OPUS2
D DVAS 360
UA UTA ANTENNA
J-ARM POSITION TYPE

 DENOTES APPROXIMATE
 LOCATION OF SPT BORING.
 SEE S-100.

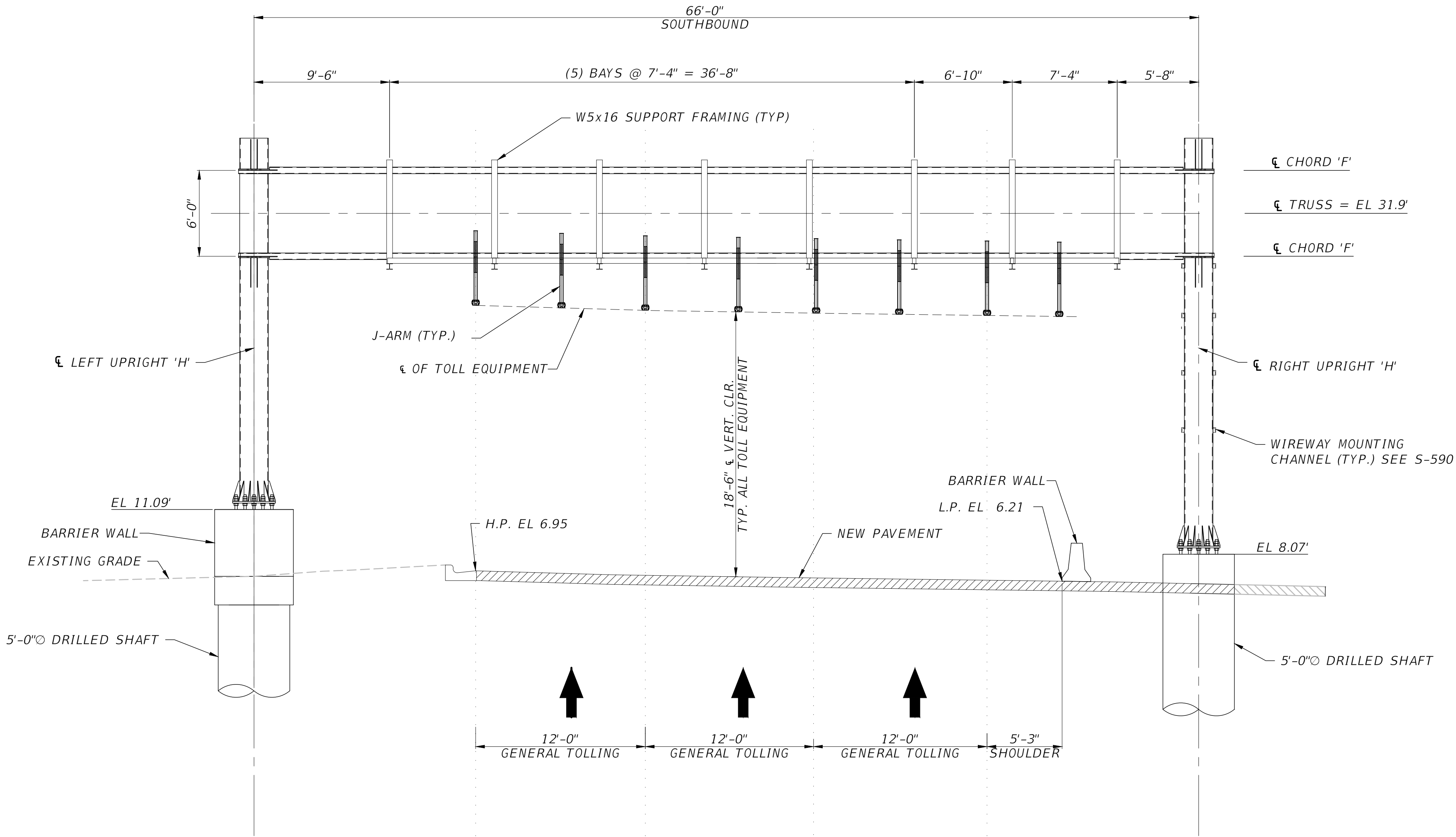
LATITUDE: N30° 20' 29.52"
LONGITUDE: W87° 08' 55.10"
NORTHING: 497584.14
EASTING: 1133059.71
STA 310+33.44

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1. DRAWING NO.	2. PROJECT NO.	3. DATE	4. DRAWN BY	5. CHECKED BY	6. APPROVED BY	7. COMMENTS

100% DFSIGN DOCUMENTS

- NOTES:
1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX NO. 700-041. SEE S-600 FOR TOLLING STRUCTURE DATA TABLE.
 2. TRUSS WEB MEMBERS AND WIREWAYS NOT SHOWN FOR CLARITY.
 3. TRAILING EQUIPMENT NOT SHOWN FOR CLARITY.
 4. UPRIGHTS TO BE FILLED WITH CONCRETE 8'-0" ABOVE THE TOP OF FOUNDATION/CONCRETE BARRIER WALL. SEE S-510.
 5. A.P.E. = AVERAGE PAVEMENT ELEVATION.
 6. TOLL EQUIPMENT AND LOCATIONS SHOWN ARE BASED ON THE TRANSORE INFINITY SYSTEM. FINAL EQUIPMENT LAYOUT PENDING COORDINATION WITH TOLLING EQUIPMENT CONTRACTOR (TEC).



Jacobs

STRUCTURAL
GANTRY
SOUTHBOUND ELEVATION

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBA COUNTY, FLORIDA

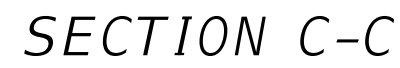
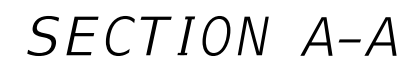
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DWG	S-200
SHEET	60 of 79

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1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 410 & MEDIAN BARRIER INDEX 521-001.
2. SEE STANDARD INDEX 410, DETAIL B FOR INFORMATION ON DOWELED TRANSVERSE CONSTRUCTION JOINT.
3. THE CONTRACTOR SHALL UTILIZE CLASS IV (DRILLED SHAFT) CONCRETE FOR CONSTRUCTION OF THE DRILLED SHAFT CAP AND CONCRETE BARRIER WALL.
4. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.
5. THE TOP SURFACE OF THE DRILLED SHAFT SHALL BE INTENTIONALLY ROUGHED TO A 1/4" MINIMUM AMPLITUDE.



PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

Jacobs

STRUCTURAL
GANTRY SITE
TOLL SITE BARRIER WALL

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-300
SHEET	61 of 79

1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 700-041. SEE S-600 FOR SPAN STRUCTURE TOLLING EQUIPMENT DATA TABLE.
2. ALL TOLLING EQUIPMENT AND CONDUCTORS SHALL BE PROVIDED AND INSTALLED BY THE TEC.
3. COORDINATE AND FIELD VERIFY ALL TOLL EQUIPMENT MOUNTING ARM LOCATIONS WITH THE TEC PRIOR TO TOLL EQUIPMENT INSTALLATIONS.
4. SEE TOLL FACILITY ELECTRICAL PLANS FOR TOLL EQUIPMENT STRUCTURE GROUNDING.
5. SEE SHEET S-501 FOR EQUIPMENT FRAMING DETAILS.



STRUCTURAL
GANTRY
TYPICAL SECTION

PENSACOLA BEACH GATEWAY
TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS

PENSACOLA BEACH GATEWAY
PARKWAY REPLACEMENT AND ENHANCEMENT
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

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REVISED GANTRY AND EQUIPMENT	REV	DR	C
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1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 700-041. SEE S-600 FOR SPAN STRUCTURE TOLLING EQUIPMENT DATA TABLE.
2. SEE S-520 FOR ADDITIONAL UNISTRUT FRAMING DETAILS.



STRUCTURAL GANTRY EQUIPMENT FRAMING SECTION

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

BOARD OF COUNTY COMMISSIONERS

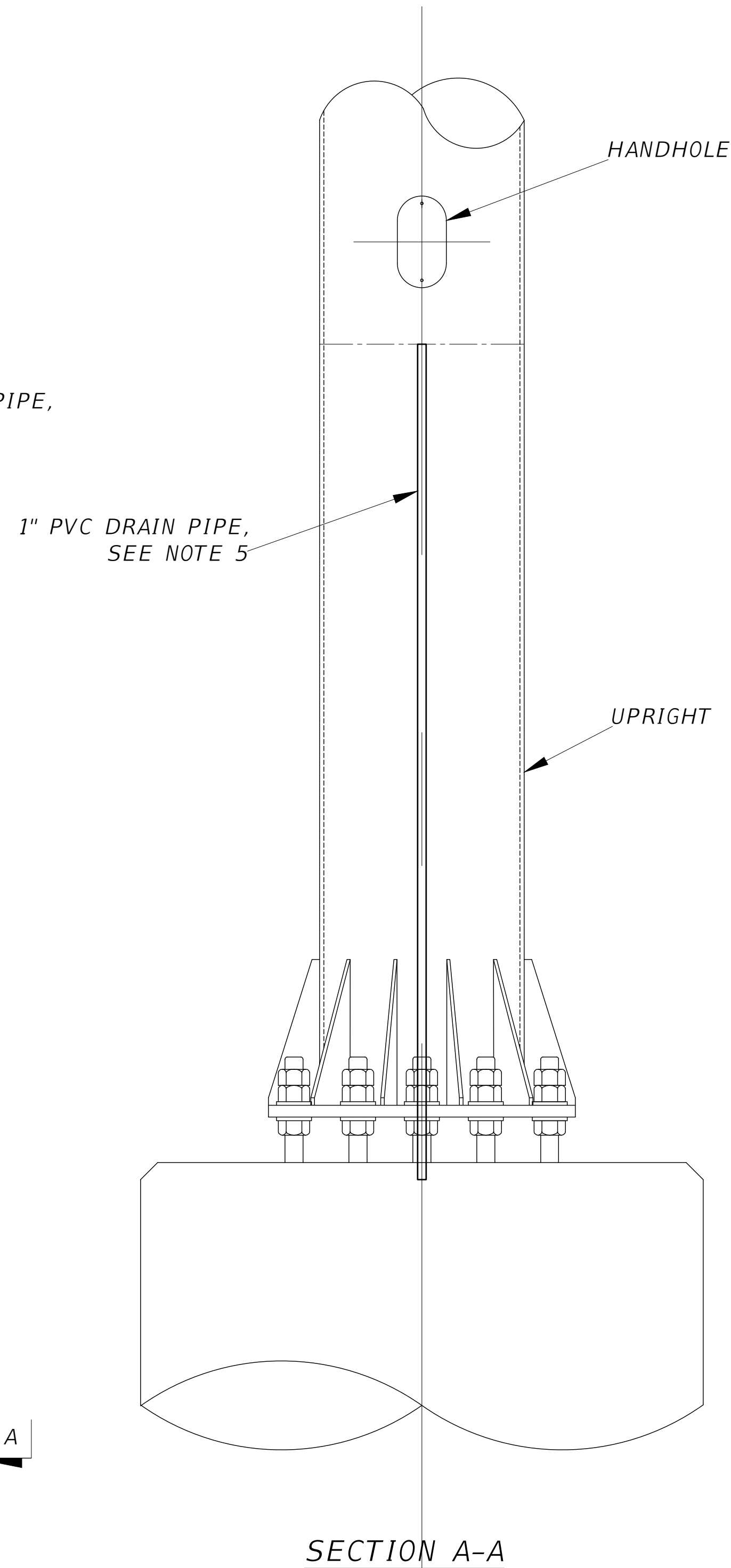
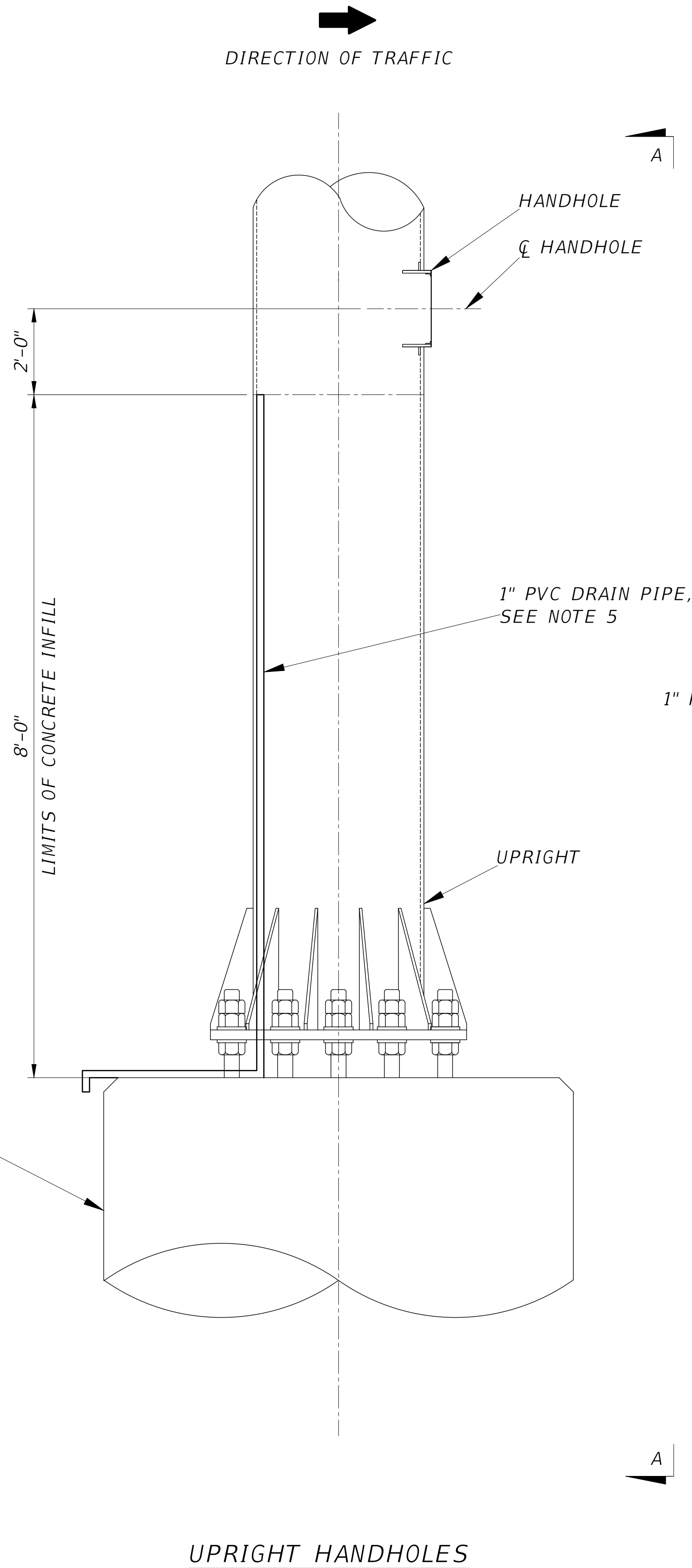
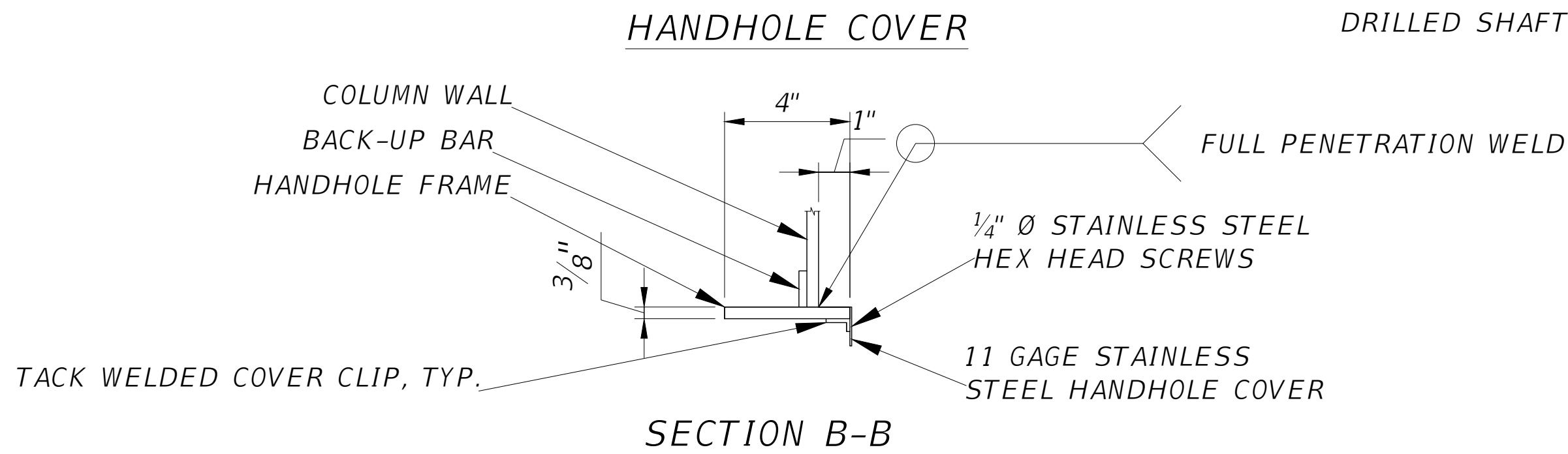
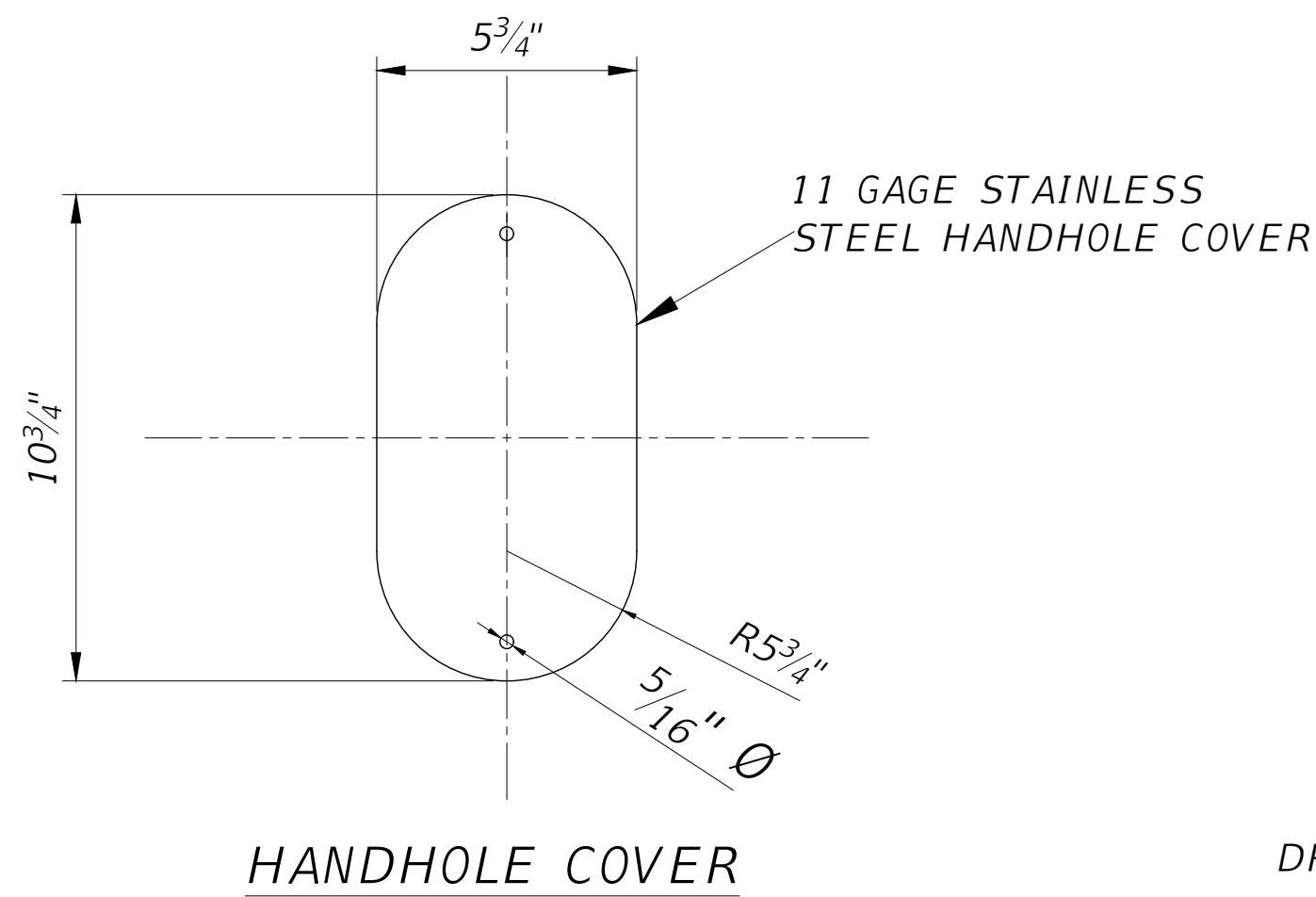
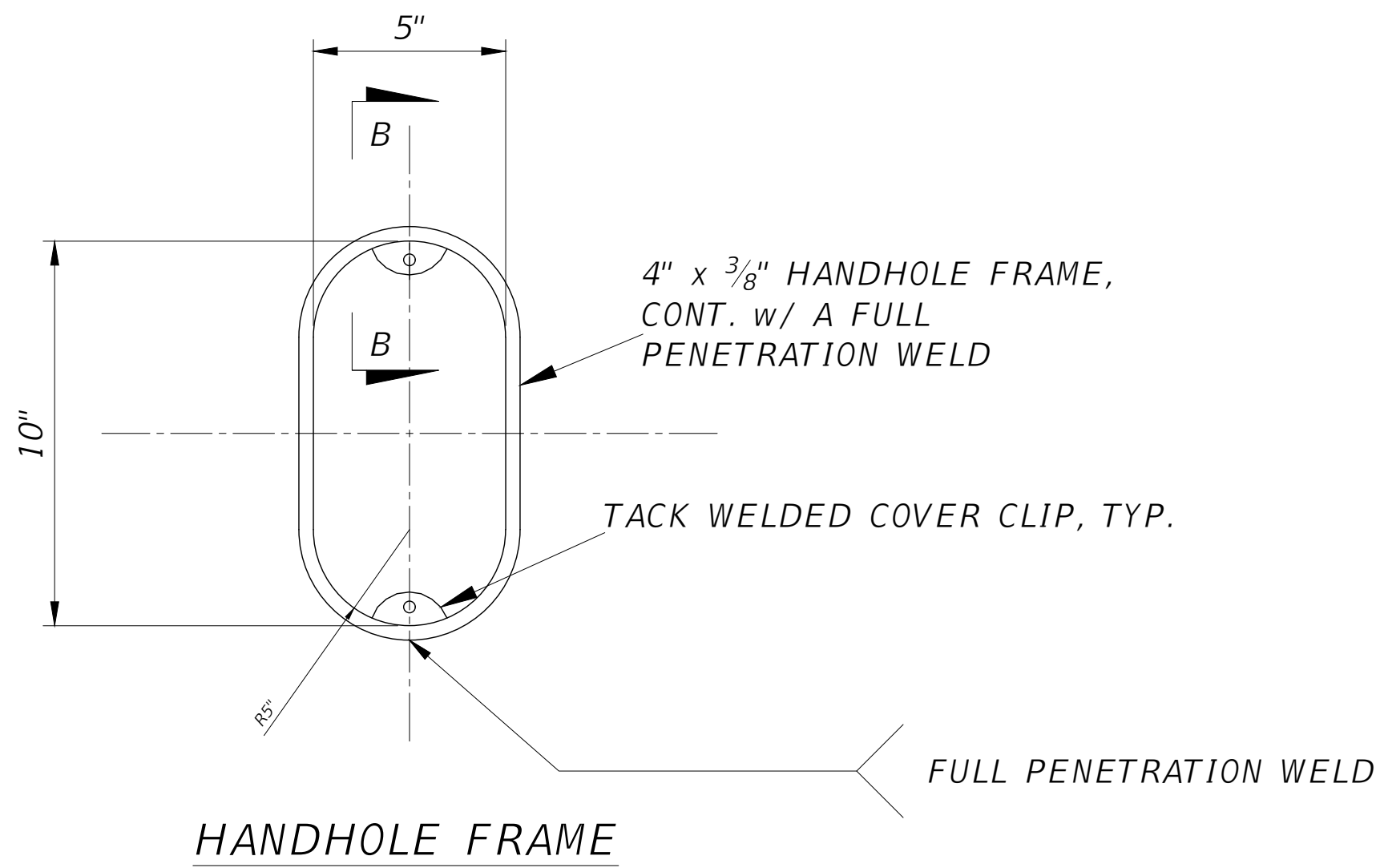
ESCAMBIA COUNTY, FLORIDA

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100% DESIGN DOCUMENTS

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SHEET	63 of

- NOTES:
1. UPRIGHT SHALL BE FILLED WITH CONCRETE 8'-0" ABOVE THE TOP OF SHAFT. INFILL MAY EXTEND TO EDGES OF BASE PLATE AND AROUND ANCHOR BOLTS TO SIMPLIFY THE PLACEMENT OF FORMWORK.
 2. HANDHOLE FRAME SHALL BE ASTM A709, GRADE 36 MIN.
 3. HANDHOLE COVER SHALL BE ASTM A1011, GRADE 50 MIN.
 4. STAINLESS STEEL SCREWS SHALL BE AISI TYPE 316.
 5. TERMINATE 1" PVC PIPE w/ 90° ELBOW THAT EXTENDS BEYOND THE EDGE OF DRILLED SHAFT w/ A SECOND 90° ELBOW DRAINING DOWNWARD.
 6. WORK THIS SHEET w/ FDOT DESIGN STANDARD INDEX 18300, SHEET 3 OF 9.
 7. SINGLE UPRIGHT SHOWN. DUAL UPRIGHTS SIMILAR. SEE S-502 FOR LOCATION OF HANDHOLE ON DUAL UPRIGHTS.



Jacobs

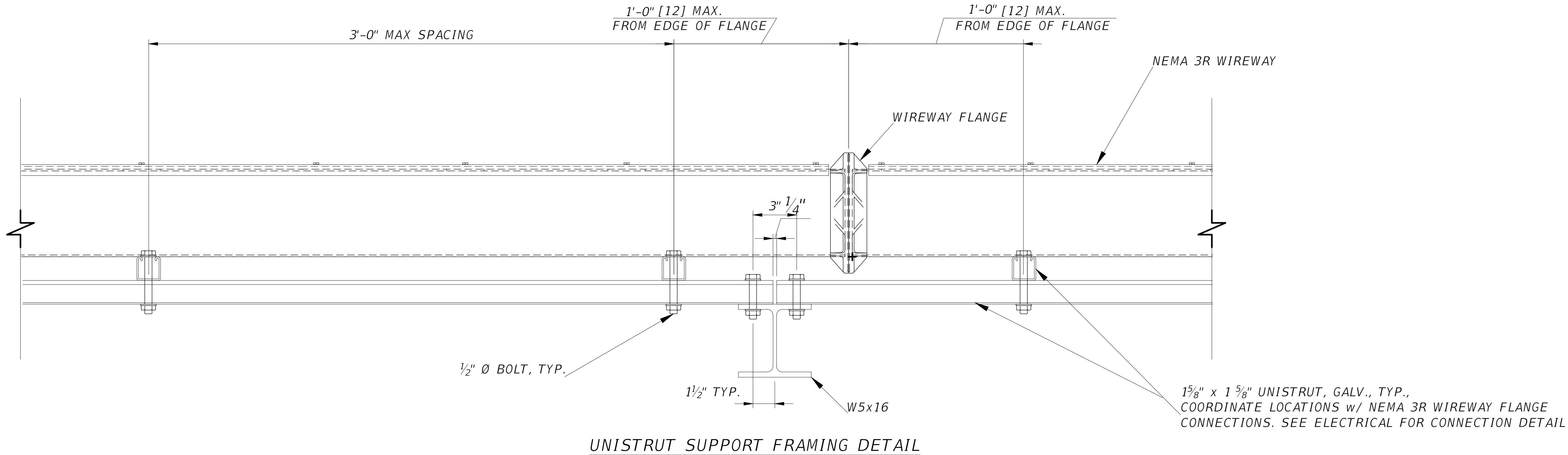
STRUCTURAL
GANTRY
UPRIGHT HANDHOLE DETAILS

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

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DATE	SEPT 2025
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DWG	S-510
SHEET	64 of 79

- NOTES:
1. WORK THIS SHEET WITH FDOT DESIGN STANDARD INDEX 700-041. SEE S-600 FOR SPAN STRUCTURE TOLLING EQUIPMENT DATA TABLE.
 2. SEE ELECTRICAL PLANS FOR WIREWAY CONNECTION TO UNISTRUT.



Jacobs

STRUCTURAL
GANTRY
EQUIPMENT FRAMING (1 OF 3)

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-520
SHEET	65 of 79

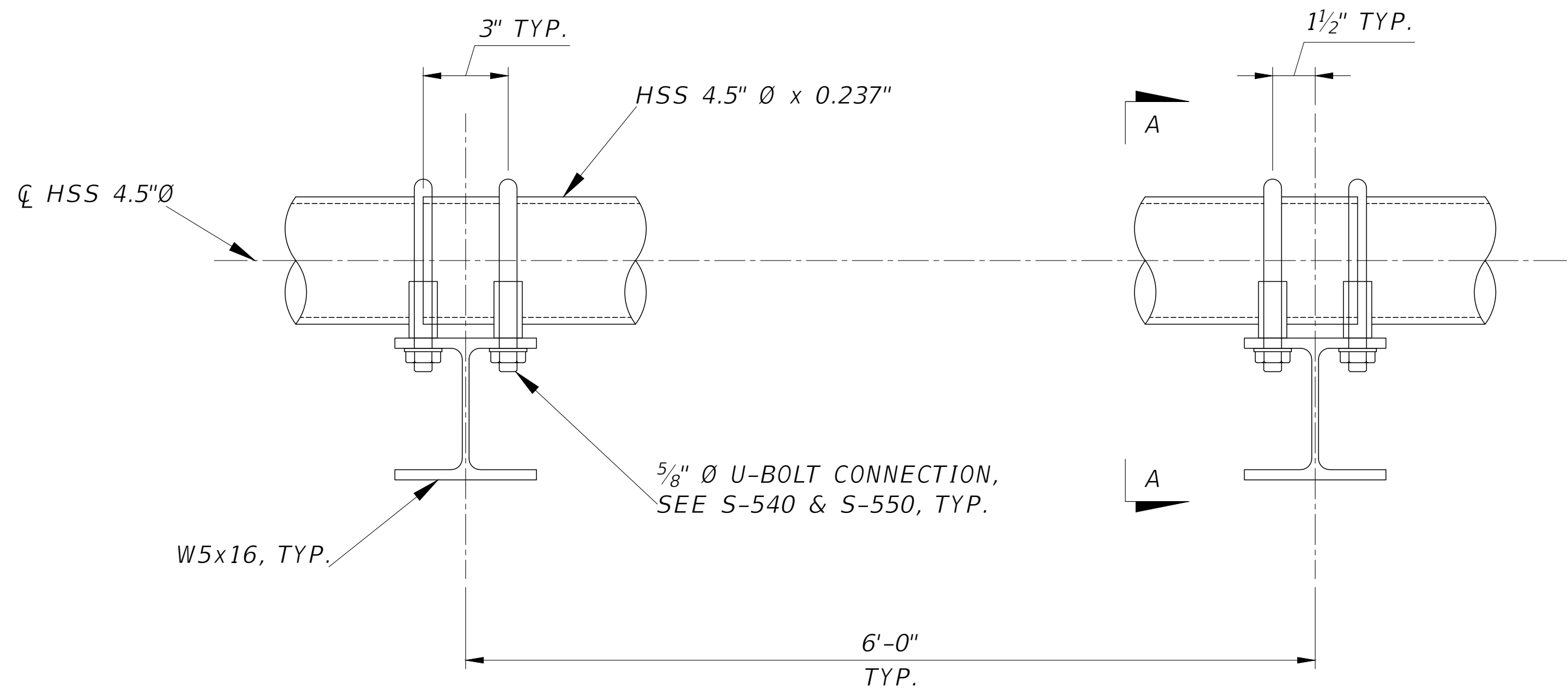
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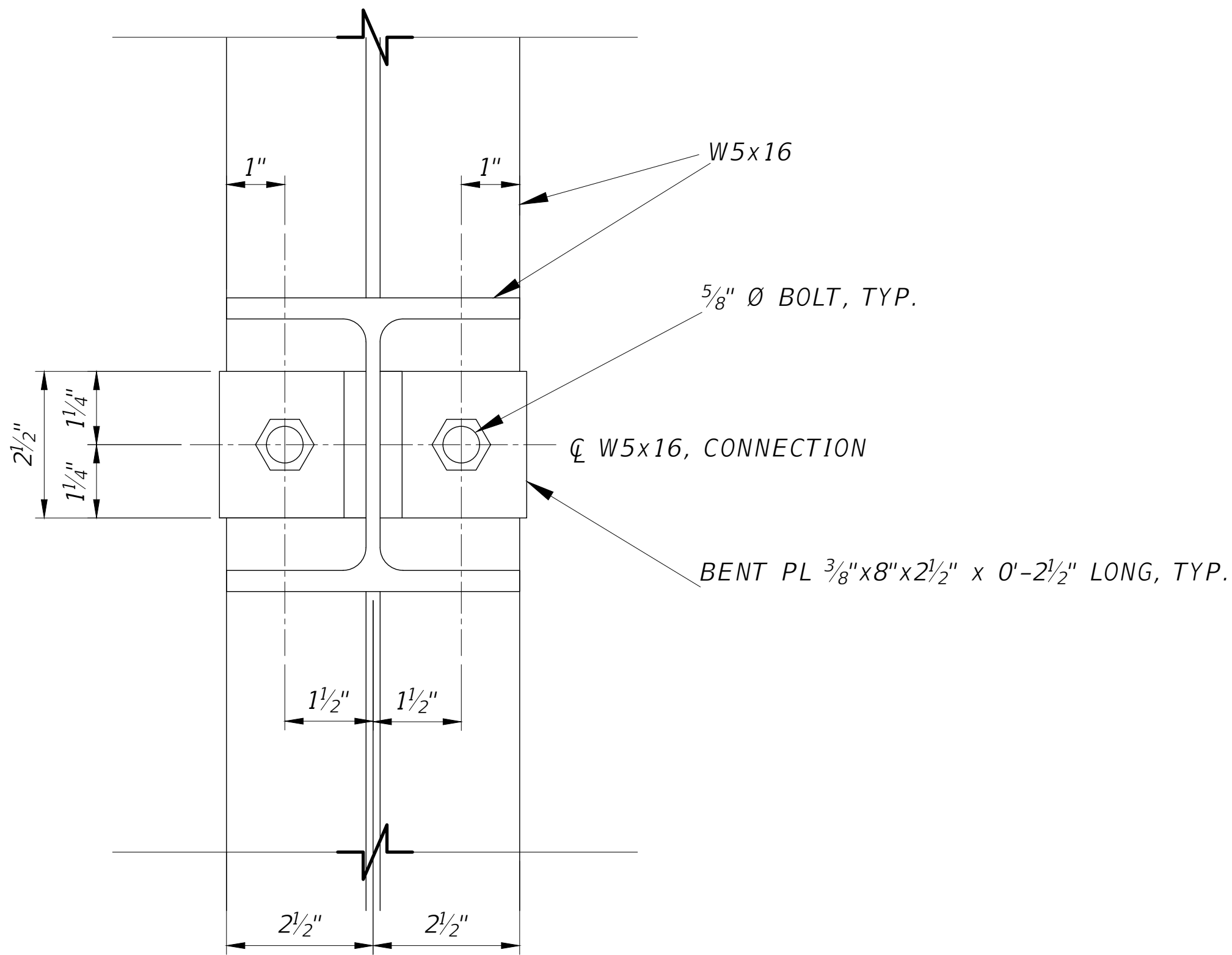
T. BRAXMEIER
J. WINKELMANN
B. ROWAN

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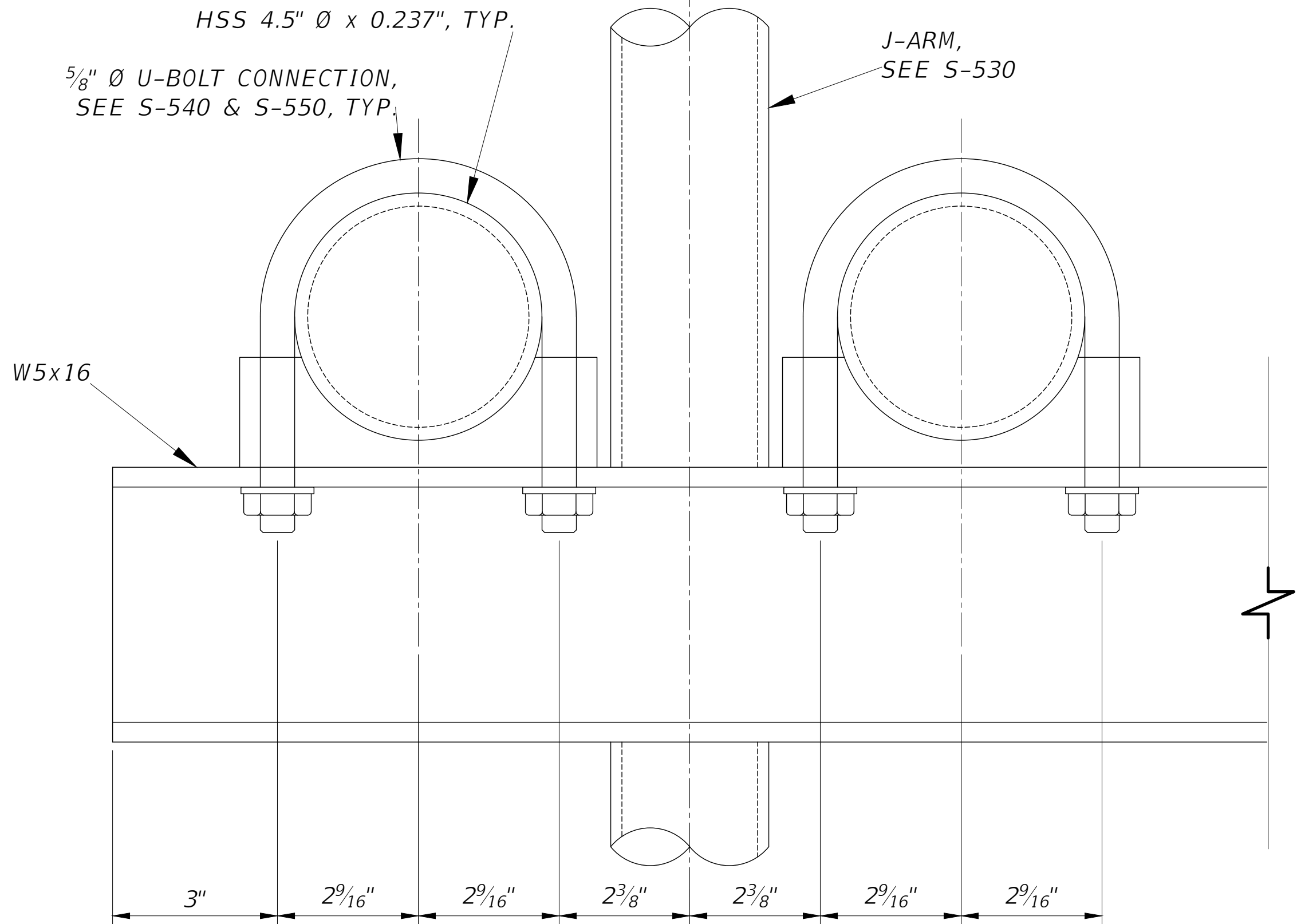
NOTES:
1. SEE PLAN AND ELEVATION FOR CONNECTION LOCATIONS.



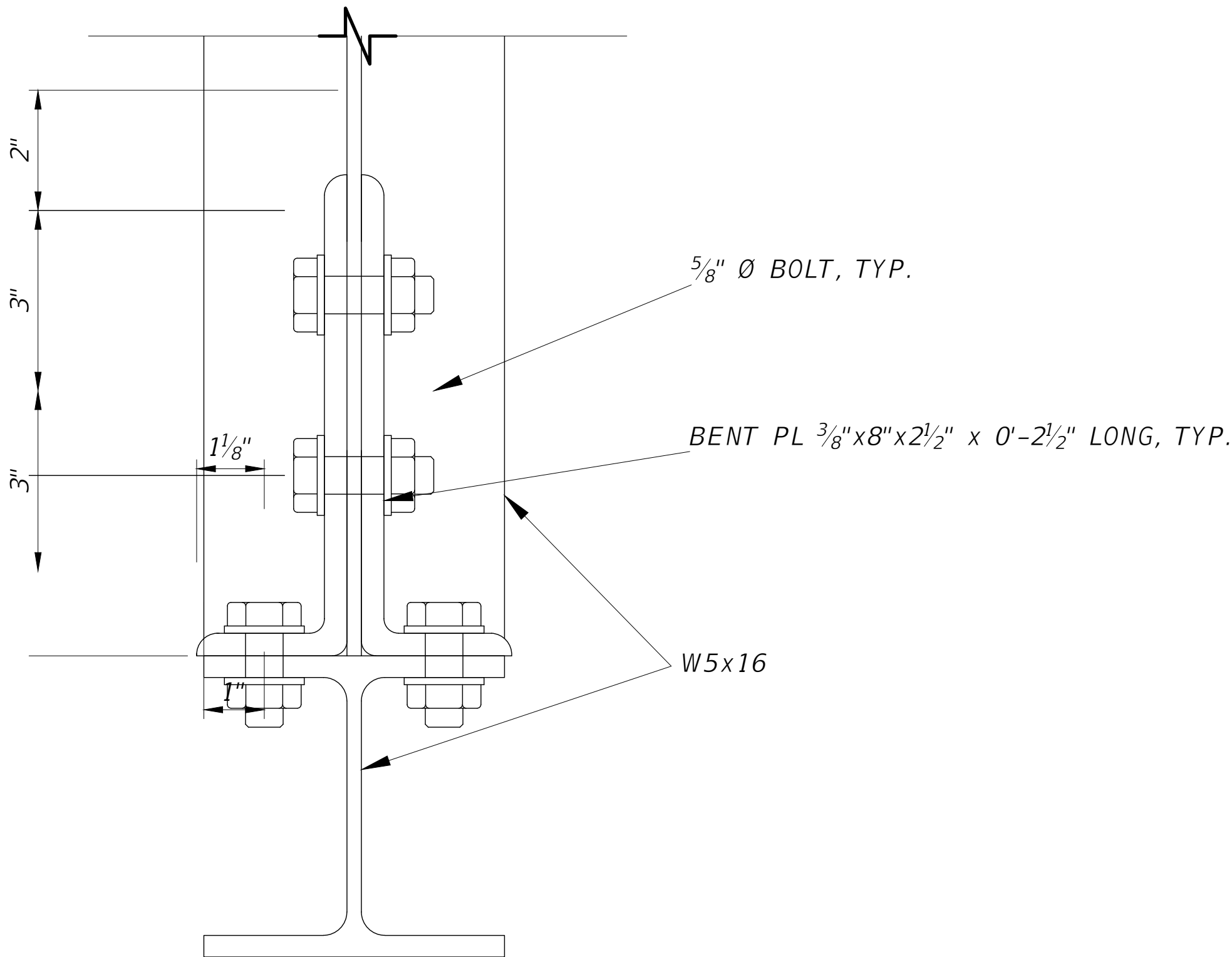
TYPICAL MOUNTING PIPE DETAIL



W5x16 TO W5x16 CONNECTION - PLAN



SECTION A-A



W5x16 TO W5x16 CONNECTION - SECTION

Jacobs

STRUCTURAL
GANTRY
EQUIPMENT FRAMING (2 OF 3)

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

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DATE	SEPT 2025
PROJ	D3971300
DWG	S-521
SHEET	66 of 79

1. CONTRACTOR SHALL PROVIDE SIX SPARE HSS 4.5" Ø SUPPORT MEMBERS AND ASSOCIATED ATTACHMENT HARDWARE PER GANTRY TO THE COUNTY.



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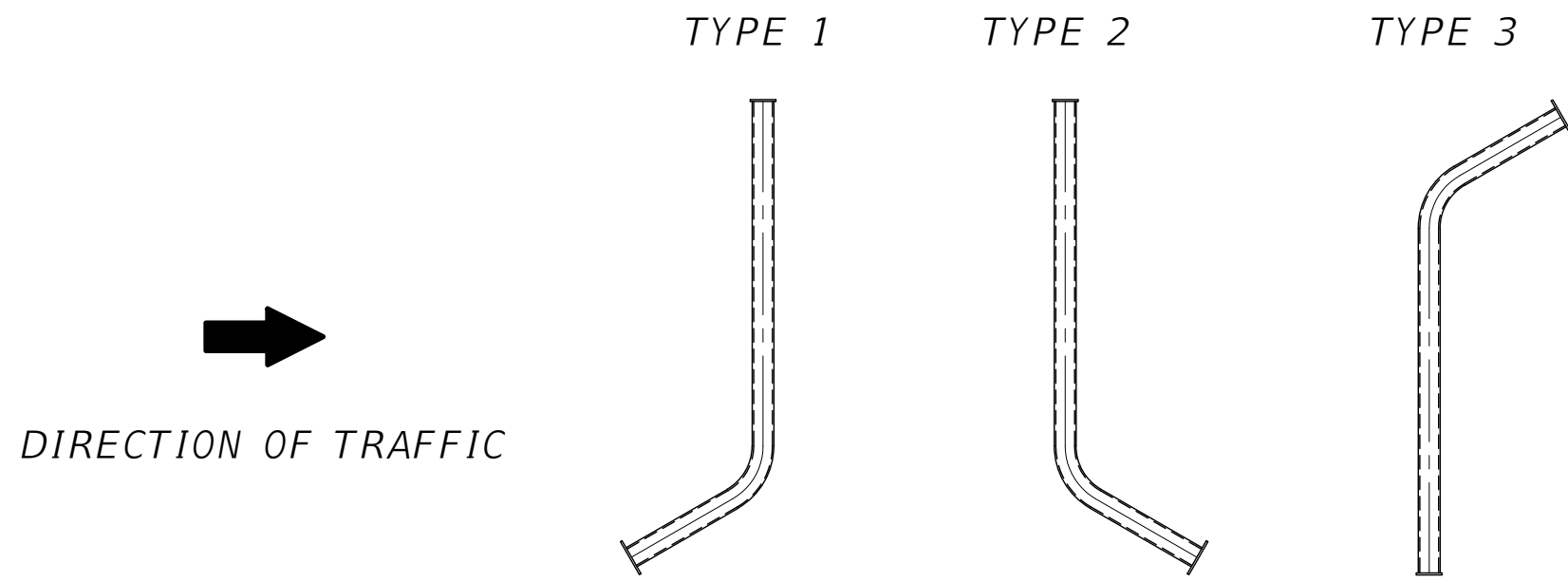
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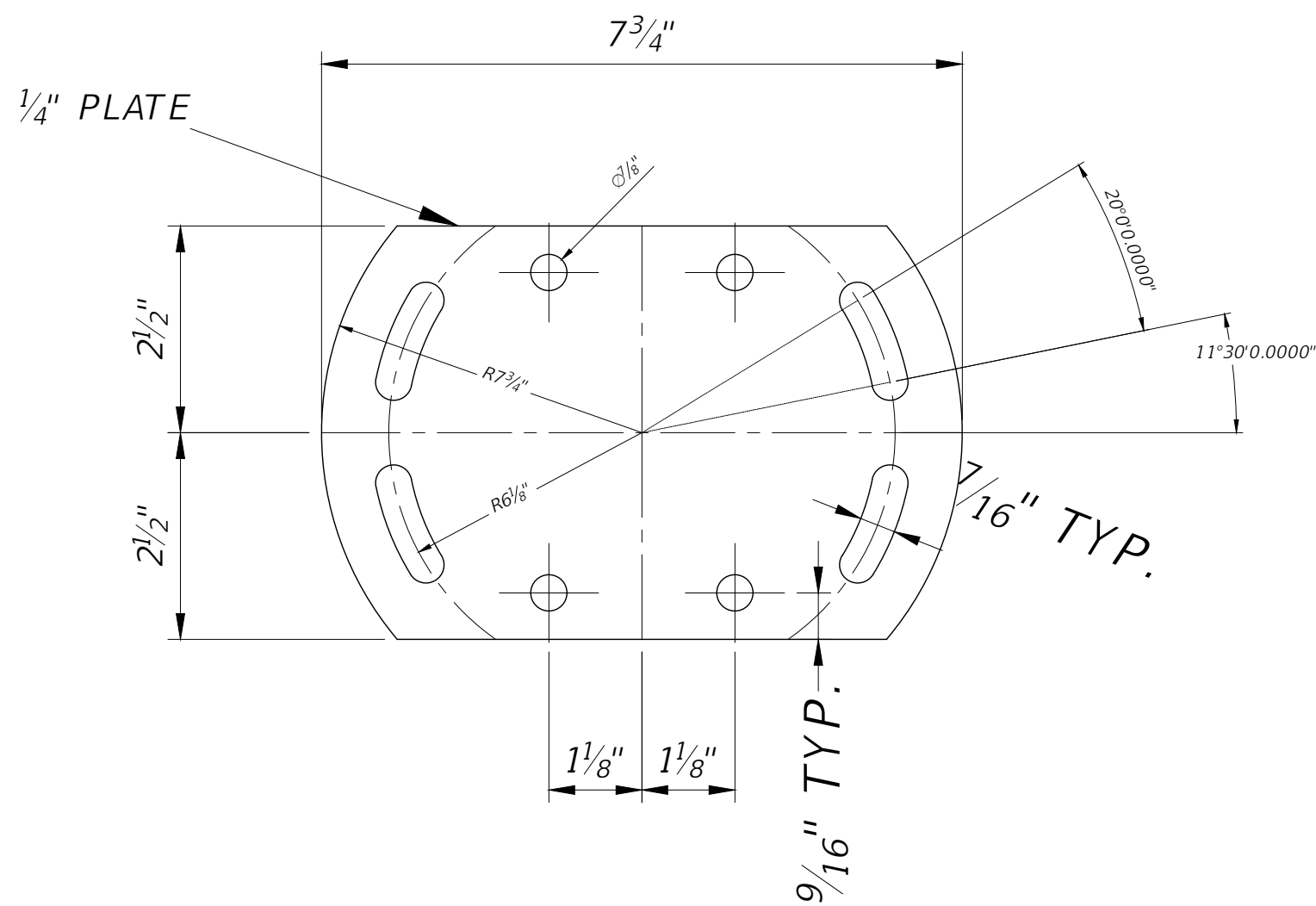
REUSE OF DOCUMENTS:

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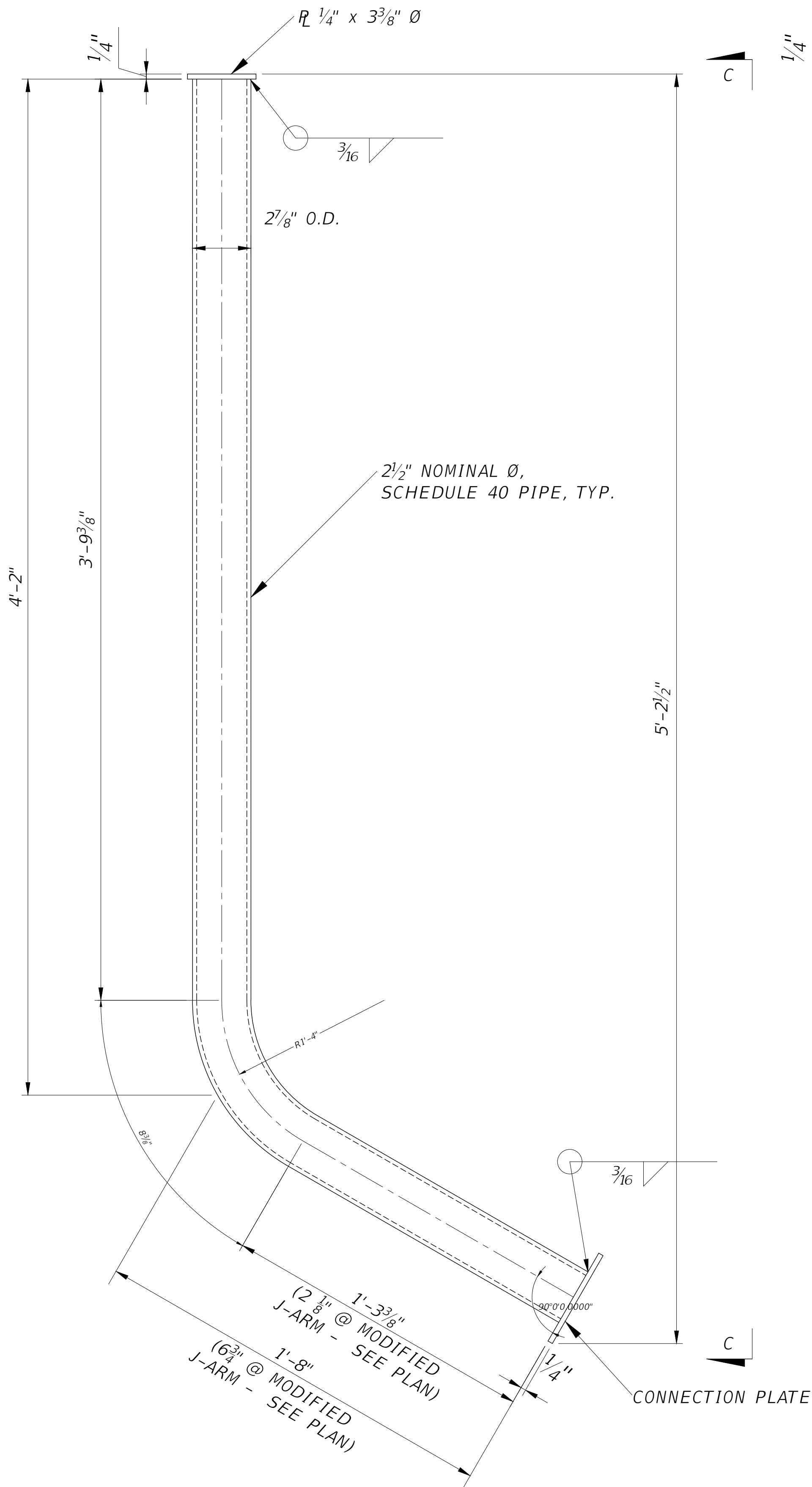
- NOTES:
- SEE PLAN AND ELEVATION FOR MEMBER LOCATIONS.
 - CONTRACTOR SHALL PROVIDE THREE SPARE J-ARMS AND ALL ASSOCIATED ATTACHMENT HARDWARE TO THE COUNTY.



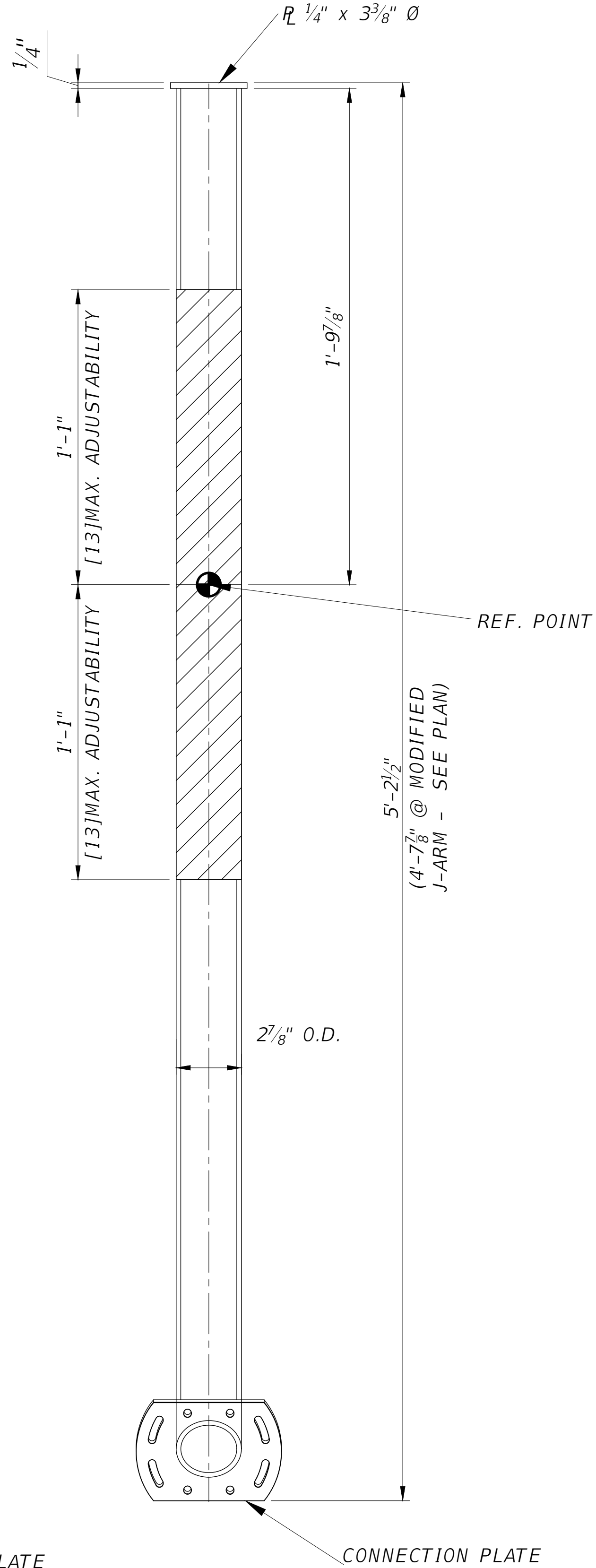
J-ARM MOUNTING POSITIONS



CONNECTION PLATE DETAIL



TOLL EQUIPMENT J-ARM



VIEW C-C

Jacobs

STRUCTURAL
GANTRY
J-ARM DETAILS (1 OF 3)

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	REVISION	CHK	APVD
1	10/09/25	ADDED MODIFIED J-ARM INFO FOR REVISED ITS EQUIPMENT	TLB	BY

T. BRAXMEIER	J. WINKELMANN	B. ROWAN
DR	CHK	APVD

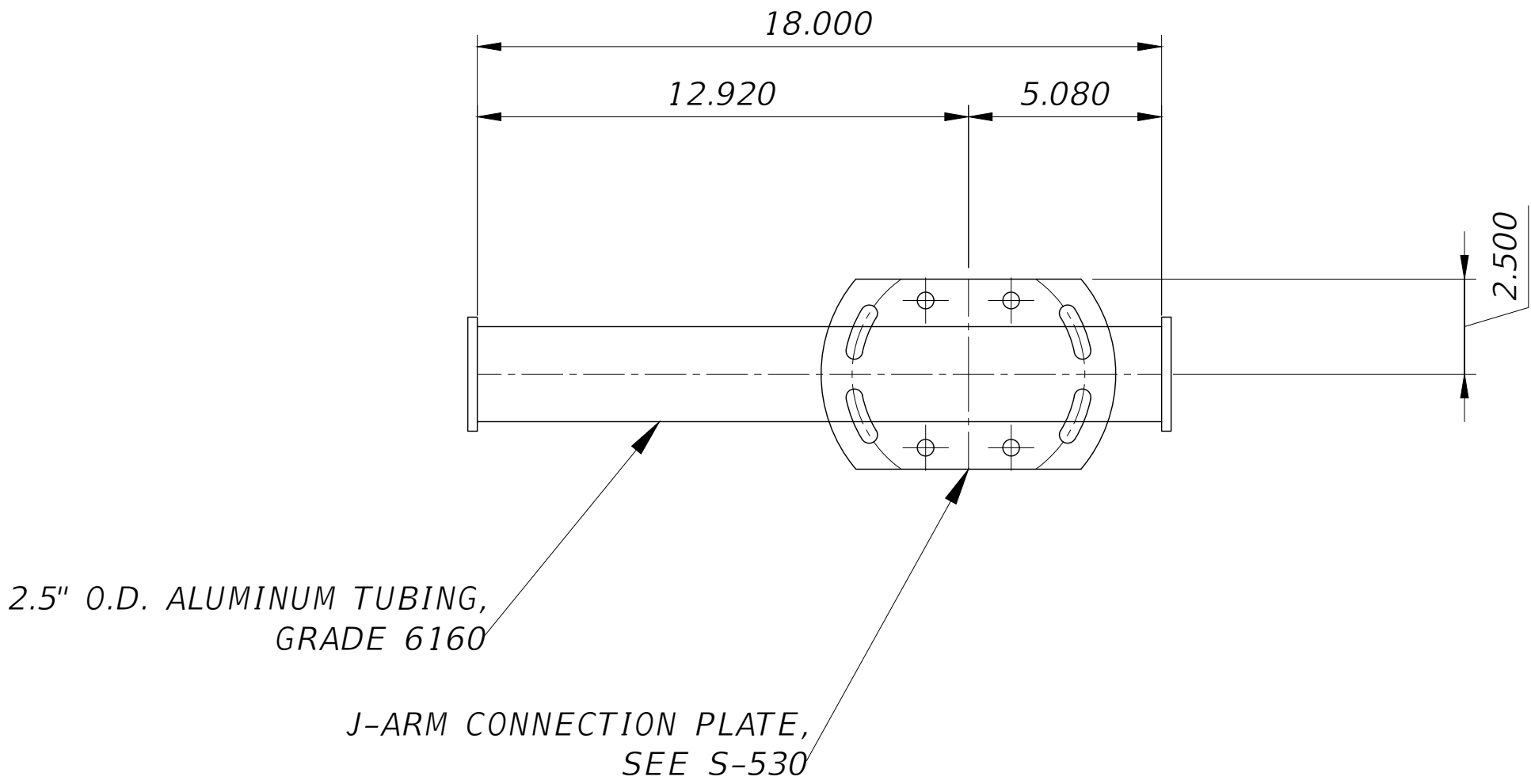
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-530
SHEET	68 of 79

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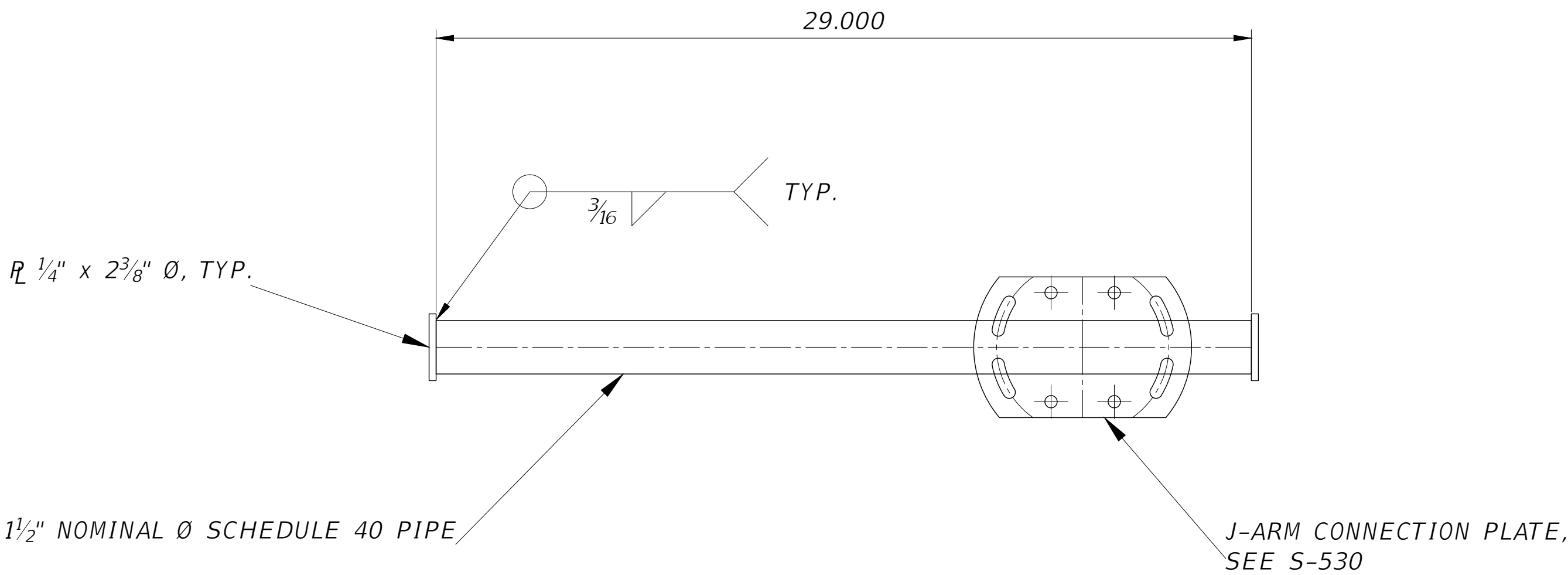
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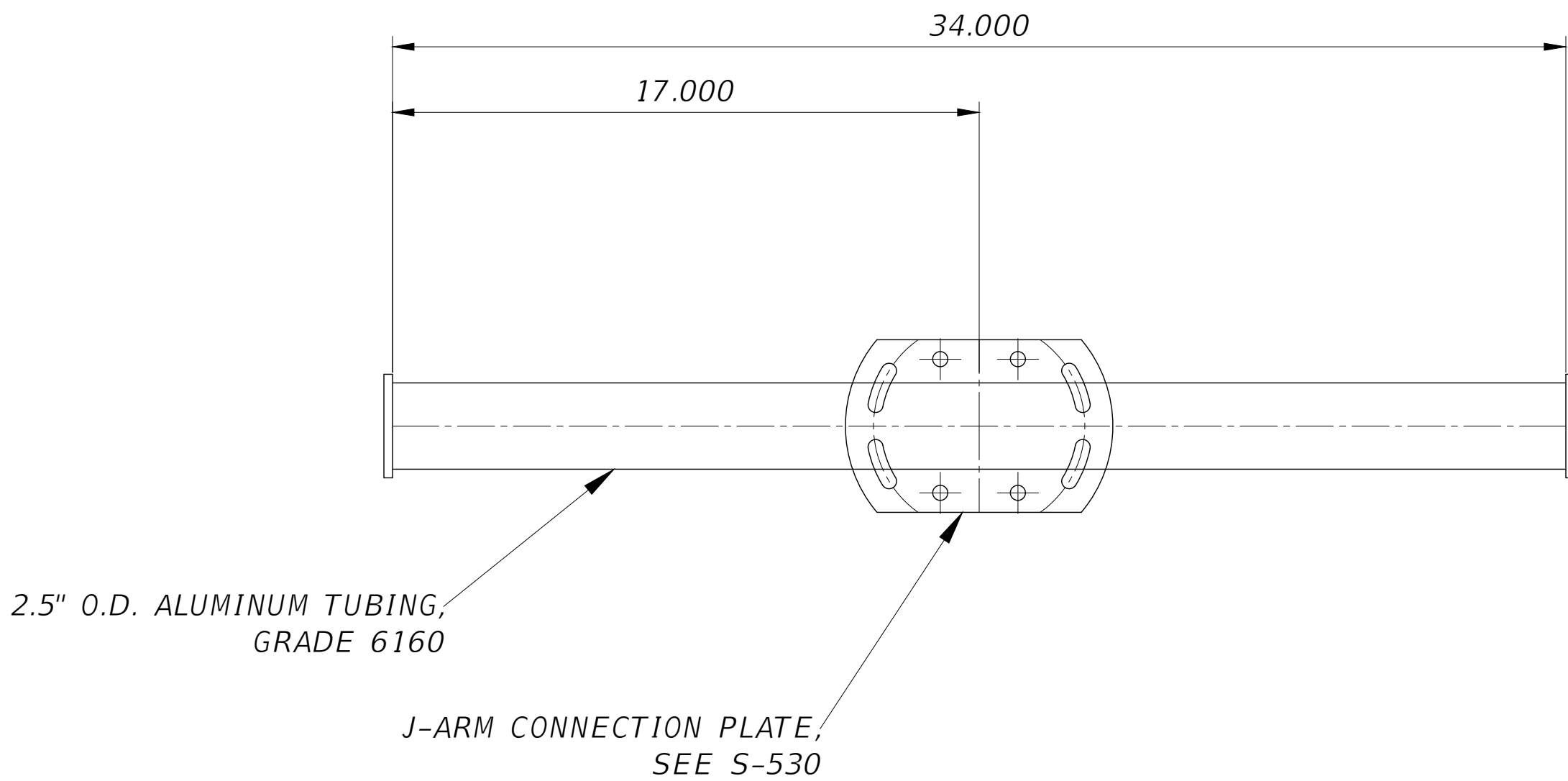
- NOTES:
- SEE PLAN AND ELEVATION FOR MEMBER LOCATIONS.
 - CONTRACTOR SHALL PROVIDE THREE SPARE J-ARMS AND ALL ASSOCIATED ATTACHMENT HARDWARE TO THE COUNTY.



OPUS MOUNTING PIPE DETAIL



VDAC MOUNTING PIPE DETAIL



VCAR MOUNTING PIPE DETAIL

Jacobs

STRUCTURAL
GANTRY
J-ARM
DETAILS (2 OF 3)

PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	SEPT 2025
PROJ	D3971300
DWG	S-531
SHEET	69 of 79

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STRUCTURE
GANTRY
J-ARM DETAILS (3 OF 3)

(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)

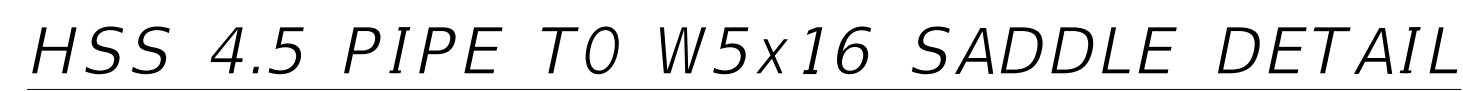
BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

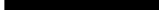
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HSS 4.5 PIPE TO J-ARM PLATE SADDLE DETAIL

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-540
SHEET	71 of 79

1. BREAK ALL EDGES
2. CLEAN AND DEGREASE PART.
3. ALL DIMENSIONS ARE IN INCHES, UNLESS NOTED OTHERWISE.
4. FOR ADDITIONAL NOTES, SEE S-532



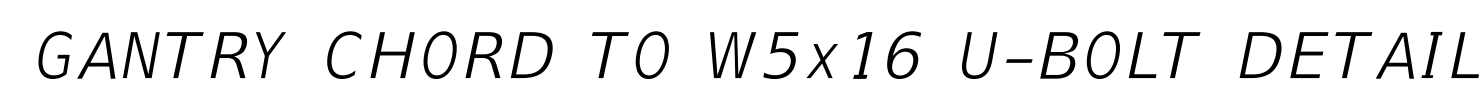
VDAC PIPE SADDLE DETAIL



OPUS & VCAR PIPE SADDLE DETAIL

Jacobs STRUCTURAL GANTRY SADDLE DETAILS (2 OF 2)										PENSACOLA BEACH GATEWAY (TOLL PLAZA REPLACEMENT AND ENHANCEMENTS) BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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2. FOR ADDITIONAL NOTES, SEE S-532



Jacobs

STRUCTURAL
GANTRY
U-BOLT DETAILS (1 OF 2)

**PENSACOLA BEACH GATEWAY
(TOLL PLAZA REPLACEMENT AND ENHANCEMENTS)**

BOARD OF COUNTY COMMISSIONERS

ESCAMBIA COUNTY, FLORIDA

11" 5 00 60 100% DESIGN DOCUMENTS

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T. BRAXMEIER	J. WINKELMANN	B. ROWAN
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VERIFY SCALE

BAR IS ONE INCH ON
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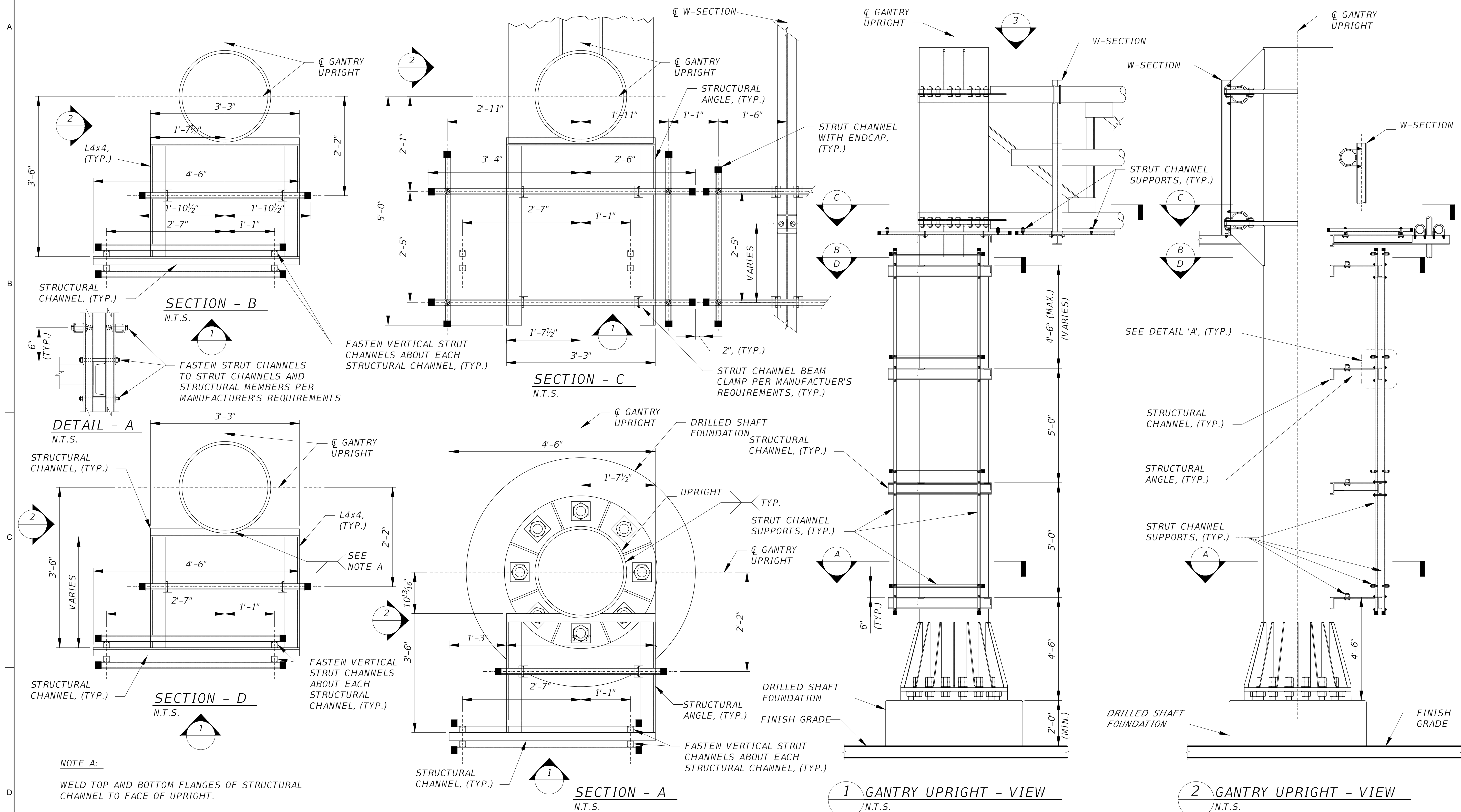
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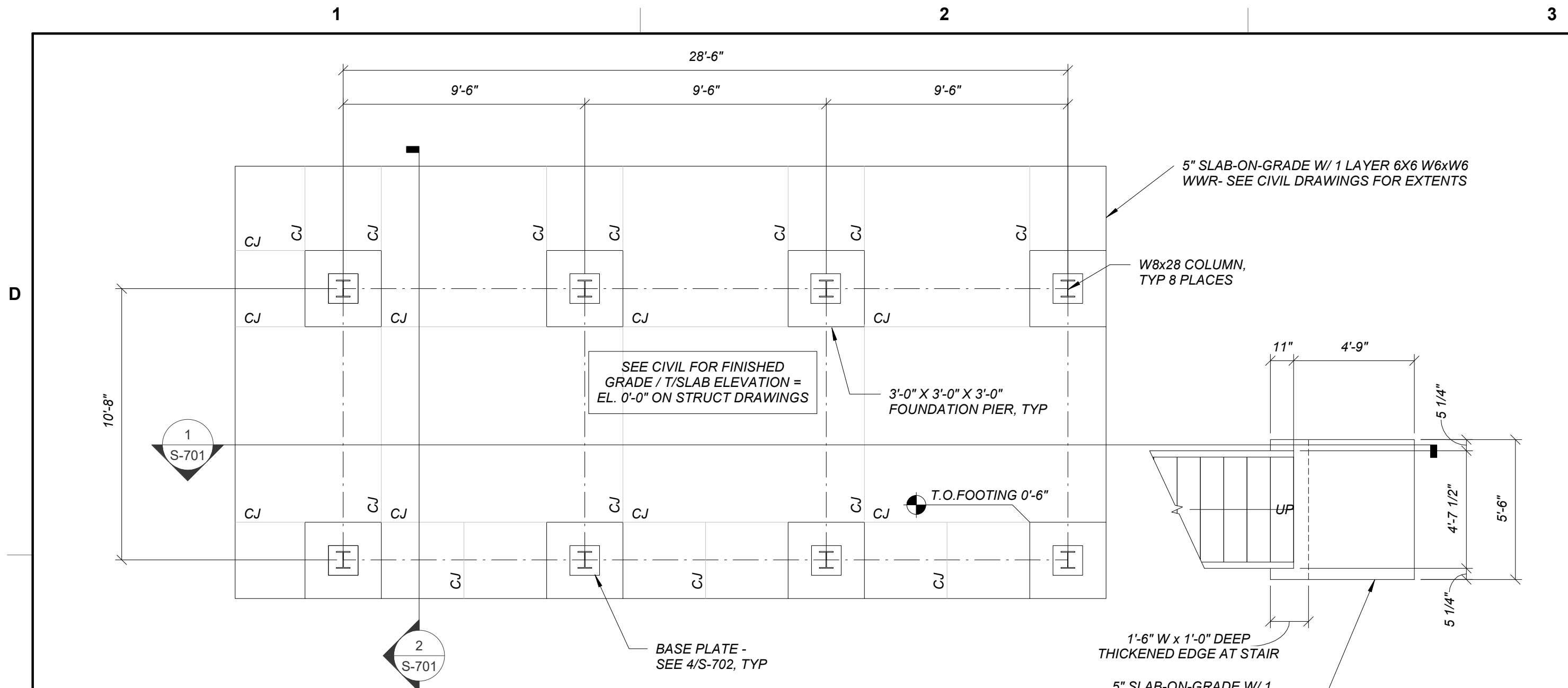
SHEET 73 of 79

NOTES:
1. SEE ELECTRICAL SHEETS FOR WIREWAY ATTACHMENT TO ANGLES.

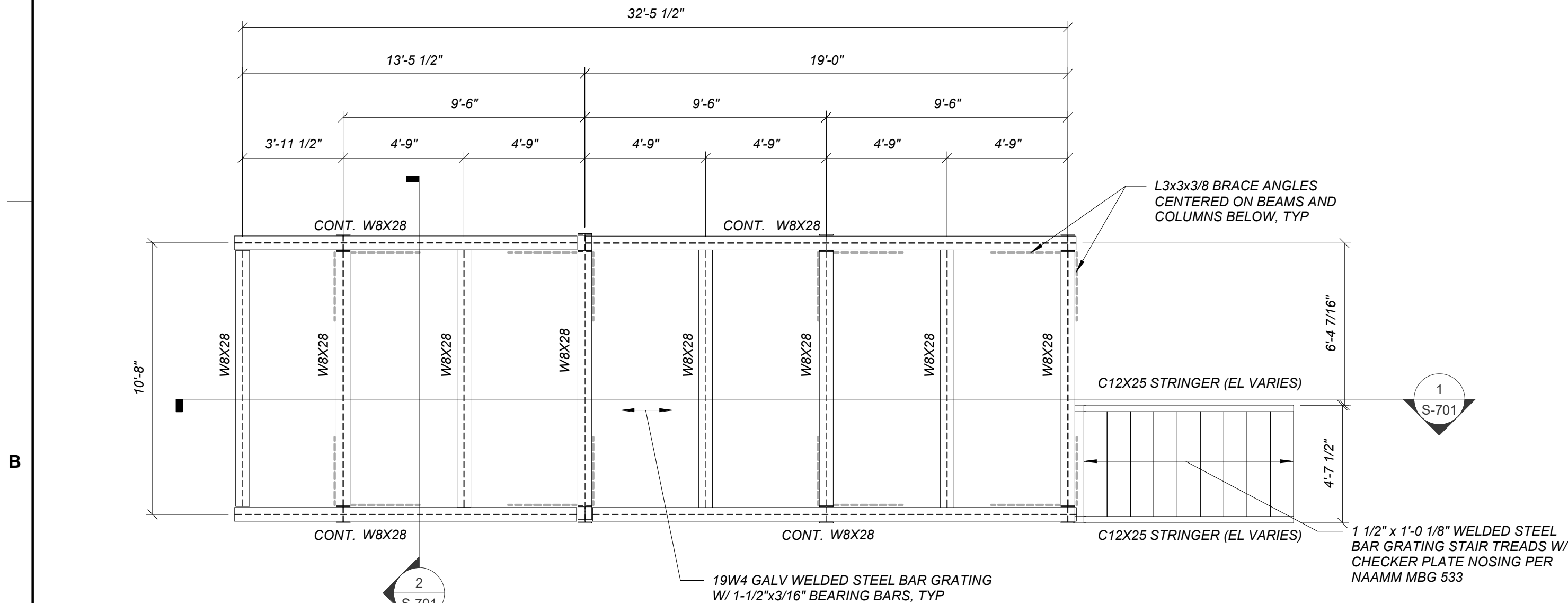


WIREWAY MOUNTING DATA TABLE	
LOCATION	ELEVATION 'A' (ft)
LEFT UPRIGHT	28.4
RIGHT UPRIGHT	28.4

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-590
SHEET	75 of 79



1 FOUNDATION PLAN
1/4" = 1'-0"



2 FRAMING PLAN
1/4" = 1'-0"

EQUIPMENT PLATFORM STRUCTURAL GENERAL NOTES

DESIGN CODES

- 2023 Florida Building Code (FBC)
- ASCE 7-22 Minimum Design Loads For Buildings and Other Structures
- ACI 318-19 Building Code Requirements for Structural Concrete and Commentary
- AISC Steel Construction Manual, 15th Edition
- Florida Department of Transportation Standard Plans FY 2025-26
- Florida Department of Transportation Standard Specifications for Road and Bridge Construction FY 2025-26
- Other Work not specifically addressed in Florida Department of Transportation Standards must be performed in conformance with the Technical Special Provisions

DESIGN LOADS

- Dead Loads
 - Welded Steel Bar Grating - 12 psf
 - Conduit / Misc Equipment - 10 psf
 - Equipment Cabinet - 2000 lbs
- Live Loads
 - Platform - 125 psf
- Wind Loads
 - Risk Category - I
 - Ultimate Design Wind Speed, V_{ULT} - 173 mph
 - Nominal Design Wind Speed, V_{ASD} - 134 mph
 - Exposure Category - C
 - Enclosure Classification - Open

GENERAL REQUIREMENTS

- All dimensions, elevations, and existing conditions shall be field verified prior to start of construction. Notify Engineer of any discrepancies, inconsistencies or other items requiring clarification.
- Coordinate piping, conduits, and other work of other disciplines embedded or passing through openings in concrete or structural steel Work items with appropriate specialty subcontractors, shop drawings, and drawings of other disciplines prior to placement of concrete reinforcement, pouring of cast-in-place concrete, or erection of steel.
- Coordinate Work shown on Structural drawings with Civil, Roadway, ITS, and other disciplines for locations of drains, slopes, sleeve requirements, anchor bolts, blockouts, etc. Notify Engineer of any discrepancies, inconsistencies or other items requiring clarification prior to proceeding with the Work.
- Do not scale Structural drawings.
- Shop drawings must be prepared and submitted for review and approval by the Engineer prior to commencement of fabrication and/or construction of the following:
 - Steel reinforcement for concrete construction
 - Structural Steel
 - Miscellaneous Steel items, bar gratings, stairs and railings, etc.
 - Concrete Mix Design
 - Precast Concrete ITS poles, including design analysis data accounting for standard and additional loading requirements, signed and sealed by pole manufacturer's Professional Engineer licensed in the State of Florida.
- Design and implementation of dewatering systems is the sole responsibility of the contractor as part of the Means & Methods of Construction. Develop and maintain all necessary precautionary measures to prevent uplift or flotation of structures and other items of the Work until all backfill has been placed and compacted.
- Verify & coordinate all underground utilities prior to commencement of the Work. Protect existing utilities throughout the performance of all excavation and construction activities.
- Do not cut structural members for pipes, ducts, etc., unless otherwise noted. Obtain prior approval for installation of any pipes, conduits, ducts, etc. Notify the Engineer when drawings of other disciplines show openings, pockets, etc. not shown on the structural drawings, but which are in conflict with structural members.
- Work shown on these drawings represent the finished structure. The Contractor is solely responsible for all Means & Methods of Construction, including, but not limited to, the design & implementation of all shoring, temporary bracing, temporary lateral bracing, excavation bracing & shoring, formwork, scaffolding, etc. Qualified Professional Engineers licensed in the state of Florida and working in the employ of the Contractor shall be utilized for the design of such systems and associated components.

FOUNDATIONS

- Shallow foundations supporting the equipment platform are designed based upon a presumptive allowable bearing pressure of 2000 psf. All site preparation and compaction must be performed under the direction of a qualified Professional Geotechnical Engineer.
- Fill materials shall conform to FDOT Standard Specification 455-30.
- Place fill in level lifts not exceeding 6 inches in thickness prior to compaction. Compact each lift to at least 95 percent of the modified Proctor maximum dry density (FM 1-T180, Method D). Fill & compaction operations shall continue in lifts until final subgrade elevations are achieved.
- Excavate, fill and compact subgrade to a depth of at least 2 feet below the proposed bottom of footing elevation and for a minimum of 2 feet horizontally beyond the edge of footing in all directions. Compact fill to a minimum of 95 percent of the modified Proctor maximum dry density (FM 1-T180, Method D).

CONCRETE

- Concrete work at equipment platform shall be in accordance with ACI 301-20.
- Provide cast-in-place concrete per the following:

CAST-IN-PLACE CONCRETE PROPERTIES				
LOCATION	MIN 28-DAY COMPRESSIVE STRENGTH	SLUMP	MAXIMUM WATER/CEMENT RATIO	MAXIMUM AGGREGATE SIZE
FOUNDATIONS	4000 PSI	4" +/- 1"	0.45	3/4"
SLAB-ON-GRADE	4000 PSI	4" MAX	0.45	3/4"

- Pea rock pump mixes shall not be permitted.
- Submit Concrete Mix Designs for review and approval per the following:
 - Clearly label each mix to indicate intended location (footings, slab-on-grade, etc.)
 - Design and document proposed mix designs in accordance with ACI 301-20. Include all supporting data for each mix, clearly labeled.
 - Submit separate mix designs for each class of concrete to be provided.
- Engage a certified Testing Agency to perform Industry Standard Testing including slump tests, placement temperature, strength tests, etc. to ensure conformance with plans and specifications. Submit test results to Escambia County and Engineer.
- Admixtures for cast-in-place concrete shall be in accordance with ACI 301-20 and ACI 318-19. Admixtures containing chlorides shall not be permitted.
- Provide 1/2-inch chamfered edge at all exposed corners unless noted otherwise.
- Provide sufficient vibration for consolidation without segregation and implement temperature control measures as required to ensure soundness & mitigate deficiencies.
- Repair surface defects, including spalls, popouts, honeycombs, rock pockets, crazing, and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width.
 - Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete.
 - Remove defective areas with clean, square cuts, and expose steel reinforcement with at least a 3/4-inch clearance all around.
 - Dampen concrete surfaces in contact with patching concrete and apply bonding agent
 - Mix patching concrete of same materials and mixture as original concrete, except without coarse aggregate
 - Place, compact, and finish to blend with adjacent finished concrete.
 - Cure in same manner as adjacent concrete.
 - Repair random cracks and single holes 1 inch or less in diameter with patching mortar.
 - Groove top of cracks and cut out holes to sound concrete, and clean off dust, dirt, and loose particles.
 - Dampen cleaned concrete surfaces and apply bonding agent.
 - Place patching mortar before bonding agent has dried.
 - Compact patching mortar and finish to match adjacent concrete.
 - Keep patched area continuously moist for at least 72 hours.
 - Perform structural repairs of concrete, subject to Engineer's approval, using epoxy adhesive and patching mortar.

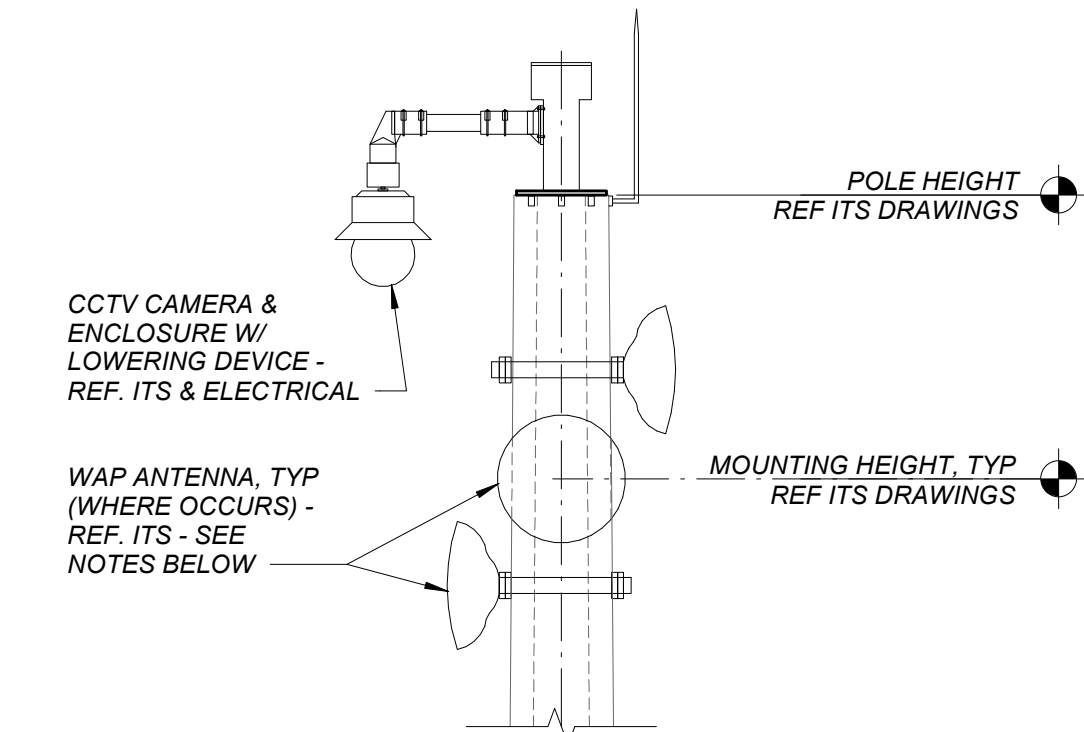
CONCRETE REINFORCEMENT

- Deformed bar reinforcement for concrete shall conform to ASTM, Grade 60. Welded wire reinforcement shall conform to ASTM A1064 and fabricated in flat sheets. All reinforcement for concrete shall be domestically produced.
- Place reinforcement with bar supports per CRSI Manual of Standard Practice (latest edition).
- Prepare shop drawings in accordance with ACI Detailing Manual SP-66 (latest edition). Submit for review and approval prior to fabrication.
- Provide concrete clear cover for reinforcement as follows:
 - Concrete cast against and permanently exposed to earth - 3"
 - Concrete exposed to earth or weather
 - #5 bars and smaller - 1 1/2"
 - #6 bars and larger - 3"

STRUCTURAL STEEL

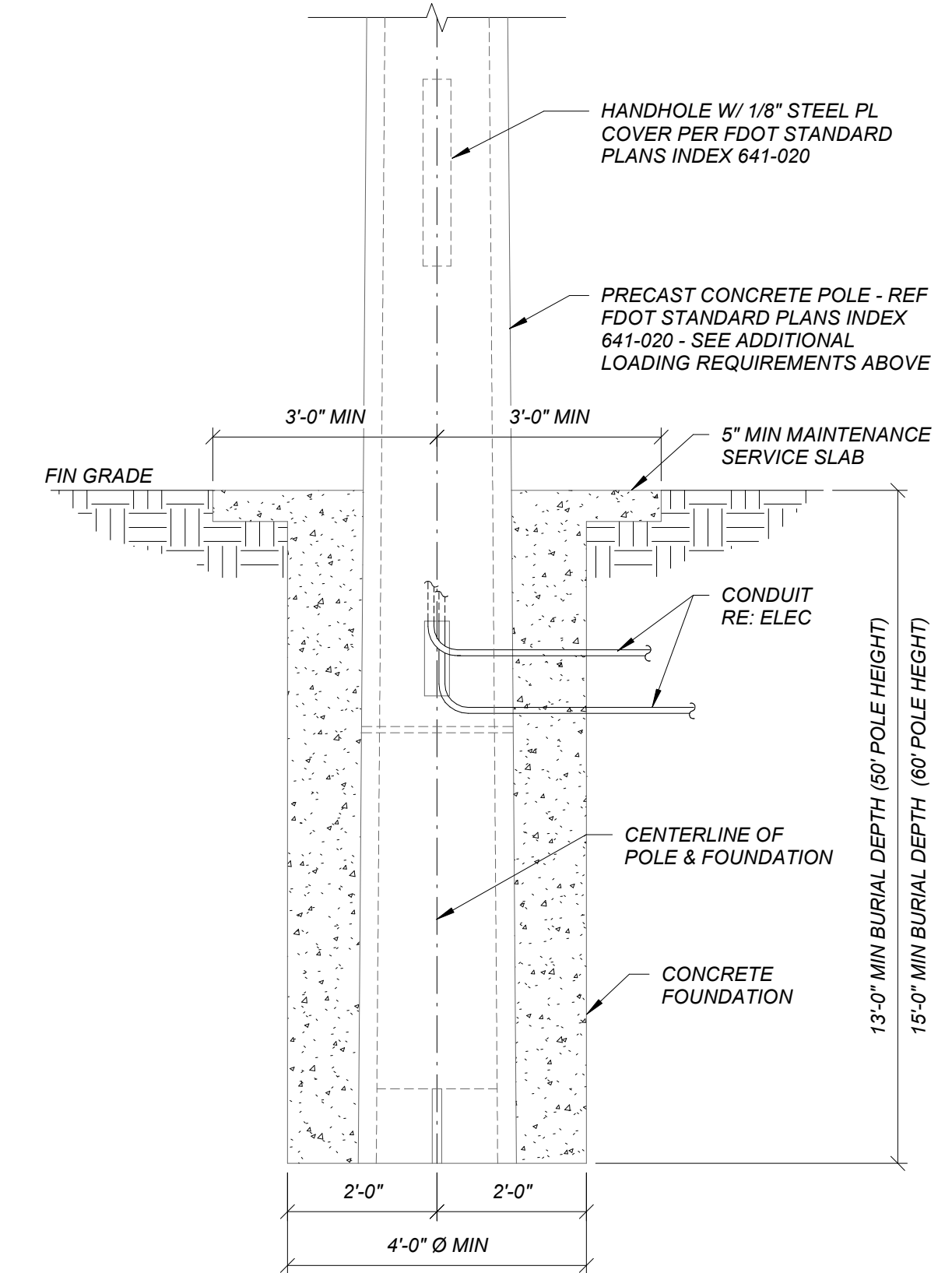
- Provide domestically produced steel sections and materials in accordance with the following:

- Plates and Bars
 - Connecting Elements - ASTM A572, Gr 50 ($F_y = 50$ ksi)
 - All other Applications - ASTM A36 ($F_y = 36$ ksi)
 - Angles - ASTM A572, Gr 50 ($F_y = 50$ ksi)
 - Wide Flanges and Channels - ASTM A992 ($F_y = 50$ ksi)
 - Pipes - ASTM A53, Gr B ($F_y = 35$ ksi)
 - Round & Rectangular HSS - ASTM A500, Gr C ($F_y = 50$ ksi)
 - High-Strength Bolts - ASTM F3125, Gr A325 ($F_u = 120$ ksi)
 - Anchor Rods - ASTM F1554, Gr 55 ($F_u = 75$ ksi)
 - Threaded Rods - ASTM A36 ($F_y = 36$ ksi)
 - Welding Electrodes - E70XX for A36 steel (min) & SMAW process or its equivalent, matching weld metal for other steel grades and processes
- Bolted connections shall be made with 3/4"Ø minimum A325-N bolts unless noted otherwise. All bolted connection shall have a minimum of (2) bolts through each connected part.
 - All welding shall be in accordance with the latest AWS and AISC specifications and performed by welders currently certified per AWS procedures. Welds shall be prequalified in accordance with AWS D1.1.
 - Provide welded and galvanized steel bar grating in compliance with NAAMM MBG-531.
 - All structural steel elements shall be hot-dipped galvanized in accordance with the standards listed below. Refer to drawing S-001 for high-performance coating and additional requirements.
 - Nuts, bolts & washers - ASTM A153, Class C
 - All other steel items - ASTM A123



NOTES:

- REFER TO FDOT STANDARD SPECIFICATIONS FY 2025-26 SECTION 641 AND STANDARD PLANS INDEX 641-020 FOR MINIMUM POLE REQUIREMENTS.
- IN ADDITION TO THE STANDARD SPECIFICATION REQUIREMENTS, WHERE WAP ANTENNAE ARE REQUIRED PER DRAWINGS, POLE MANUFACTURER SHALL DESIGN POLE SECTIONS FOR THE ADDITIONAL LOADS LISTED BELOW. DESIGN SHALL BE BASED UPON A TOTAL OF (3) ANTENNAE MOUNTED AT THE HEIGHT LISTED ON THE ITS DRAWINGS. LOADS LISTED BELOW ARE PER EACH OF THE (3) ANTENNAE.
 - DEAD LOAD - 10 LBS MINIMUM FOR ANTENNA & MOUNTING HARDWARE
 - WIND LOAD - CALCULATED BASED ON EFFECTIVE PROJECTED AREA (EPA) = 1.9 SQUARE FEET FOR EACH ANTENNA.
- SUBMIT SIGNED & SEALED CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA FOR POLE DESIGNS WITH ADDITIONAL LOADING REQUIREMENTS.



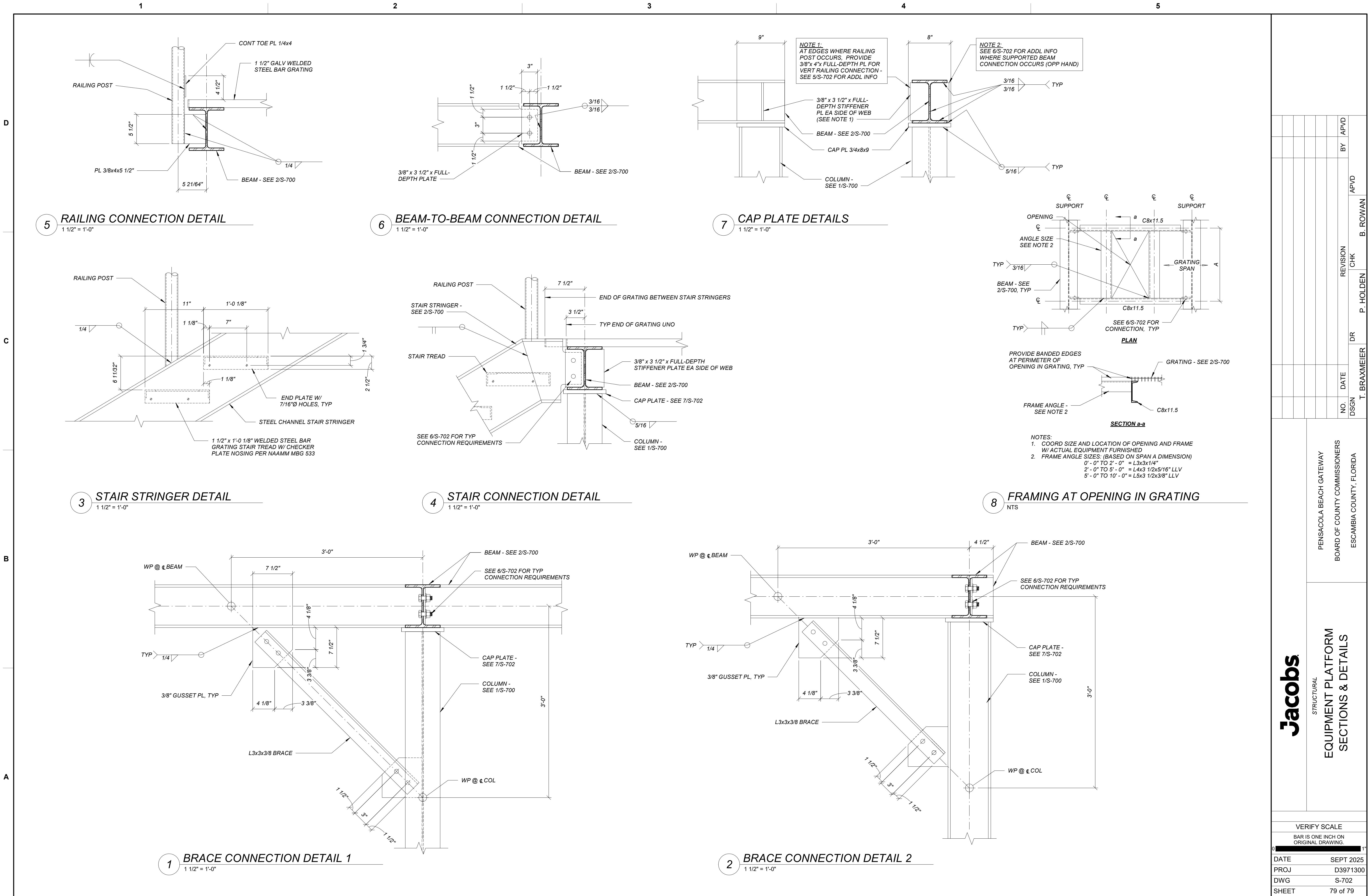
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PENSACOLA BEACH GATEWAY
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

STRUCTURAL
EQUIPMENT PLATFORM
PLANS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-700
SHEET	77 of 79



Jacobs

STRUCTURAL
EQUIPMENT PLATFORM
SECTIONS & DETAILS

PENSACOLA BEACH GATEWAY
BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

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VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	SEPT 2025
PROJ	D3971300
DWG	S-702
SHEET	79 of 79

100% DESIGN DOCUMENTS

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