

1

2

3

4

5

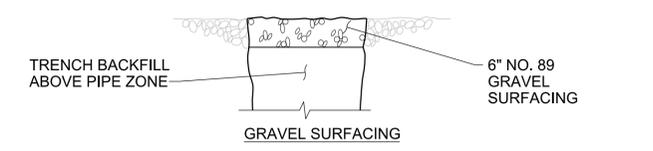
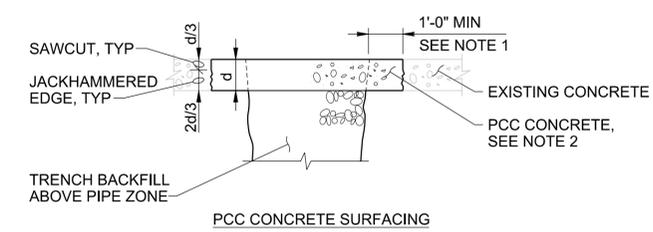
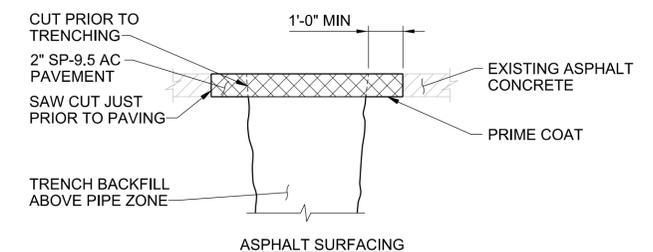
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A

B

C

D

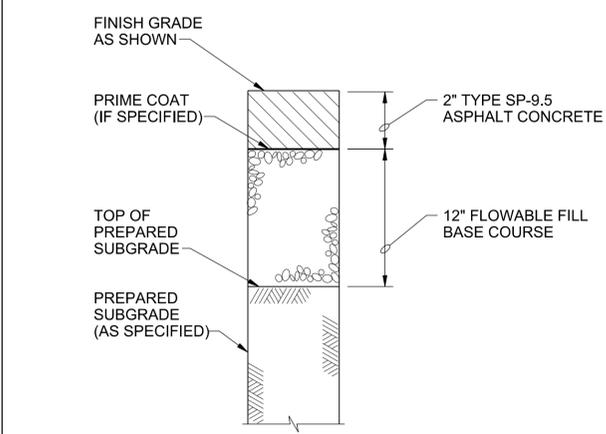


IF LOCATION OF TRENCH SAW CUT IS WITHIN 2 FEET OF AN EXISTING JOINT OR EDGE OF CONCRETE, REPLACE ENTIRE CONCRETE TO THE JOINT OR EDGE.

CONSTRUCT JOINTS ACROSS NEW CONCRETE TO MATCH EXISTING JOINT TYPES AND LOCATIONS.

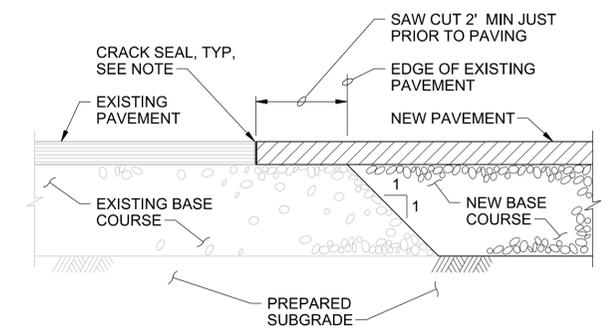
SURFACE RESTORATION
NTS

3123-115



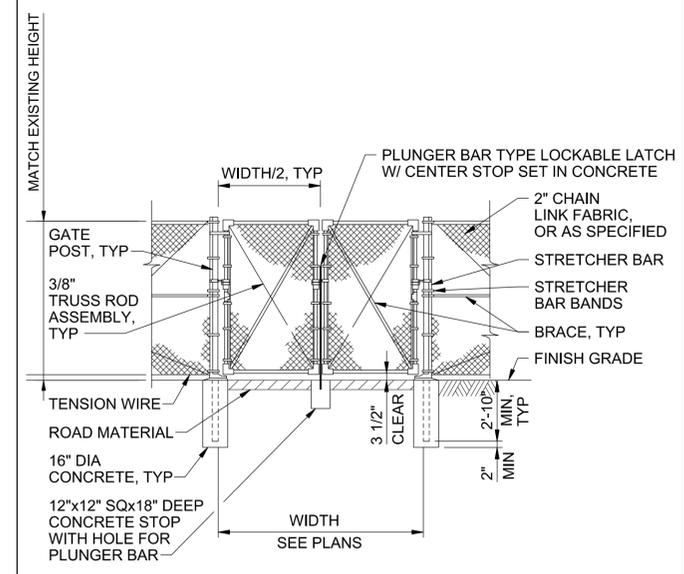
ASPHALT CONCRETE PAVEMENT
NTS

3212-210



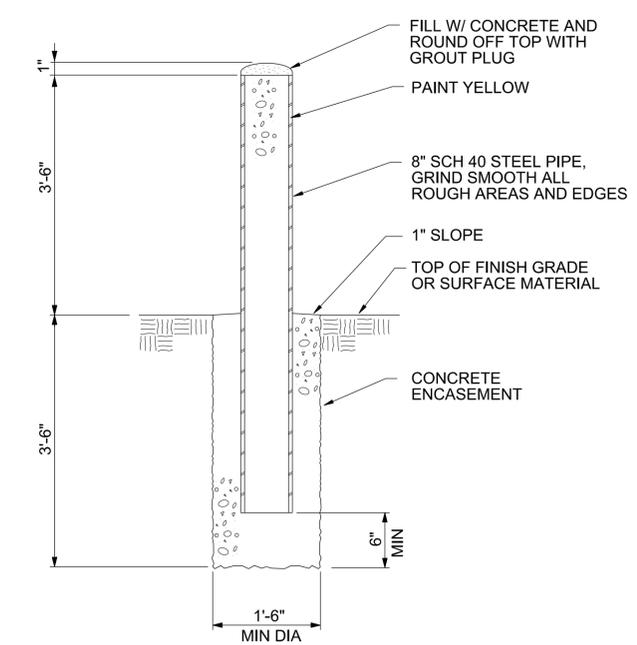
PAVEMENT CONNECTION
NTS

3212-215



DOUBLE SWING GATE
NTS

3231-415



PERMANENT GUARD POST
NTS

3305-954

NO.	DATE	DR	APVD	BY	APVD
		R MORRISON	R MORRISON	R MORRISON	R MORRISON
		DSGN	CHK	REVISION	

3011 S.W. WILLISTON ROAD
GAINESVILLE, FLORIDA 32608
EB0000072 AAC001982

RICHARD THOMAS MORRISON PE 67713

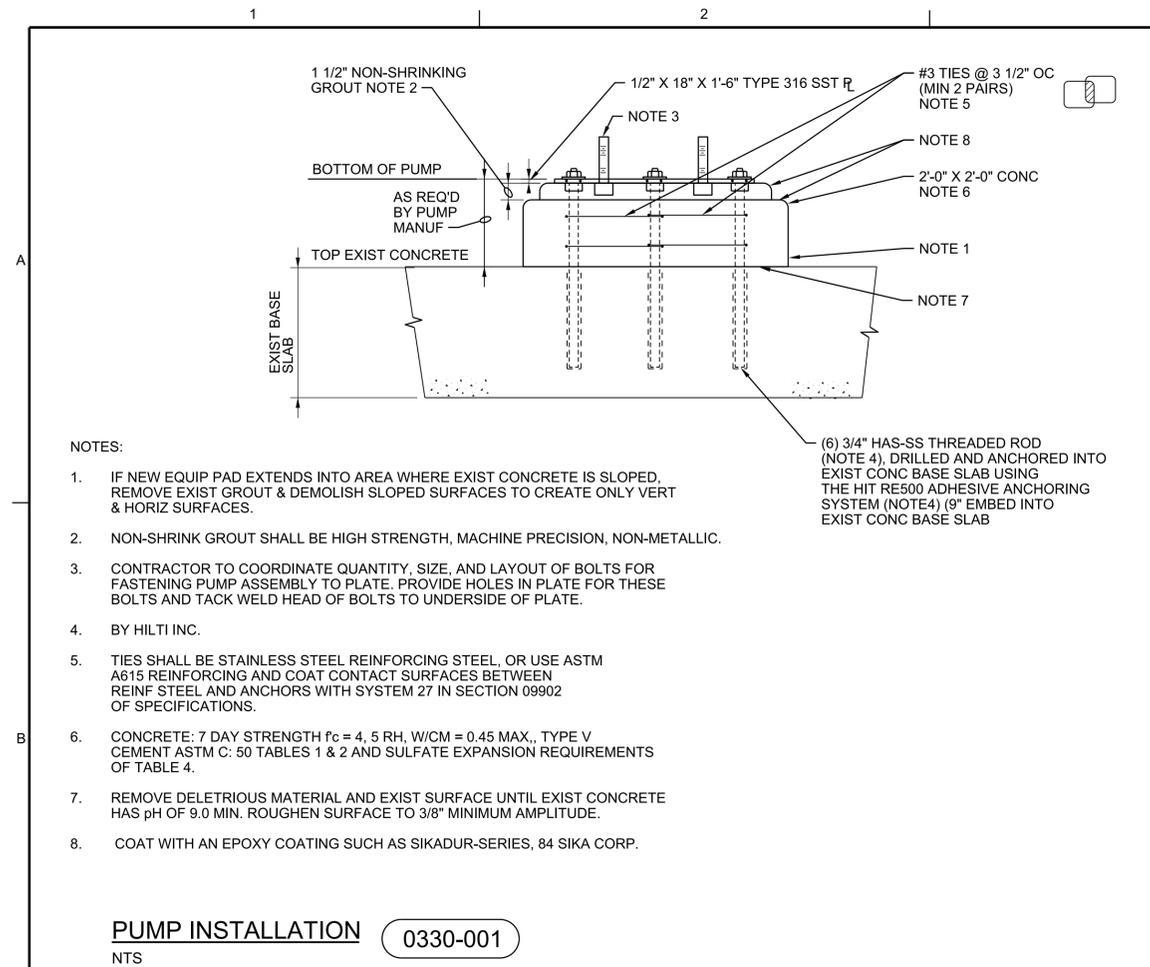
PUMP STATIONS H & B REHABILITATION
AND PUMP STATION GENERATOR REPLACEMENT
CITY OF KEY WEST
KEY WEST, FLORIDA

ch2m
CIVIL

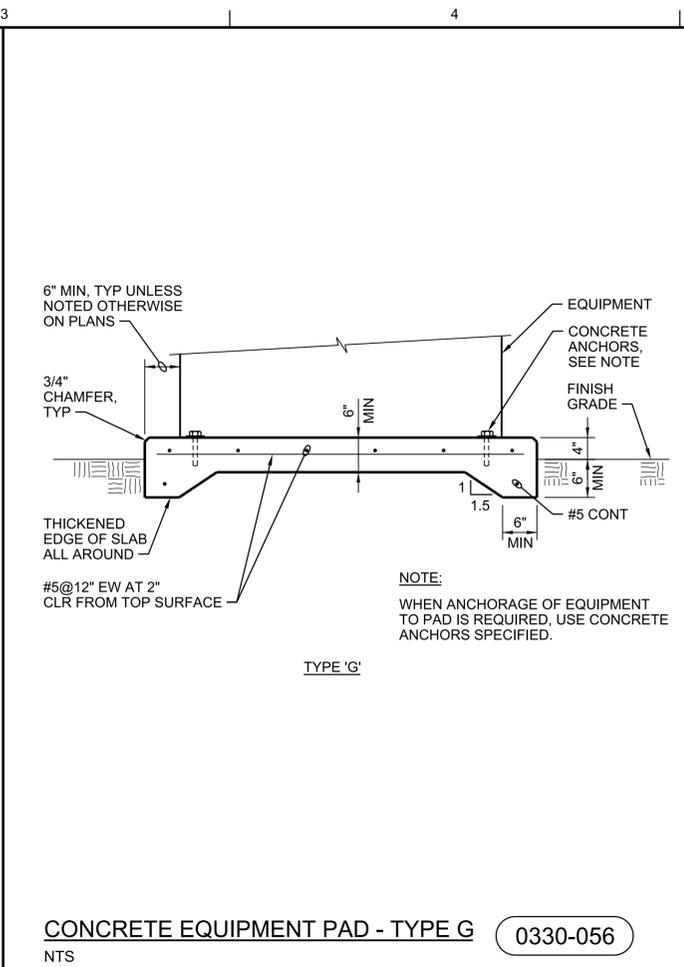
STANDARD DETAILS

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2018
PROJ	683450
DWG	095-C-501
SHEET	23 of 30

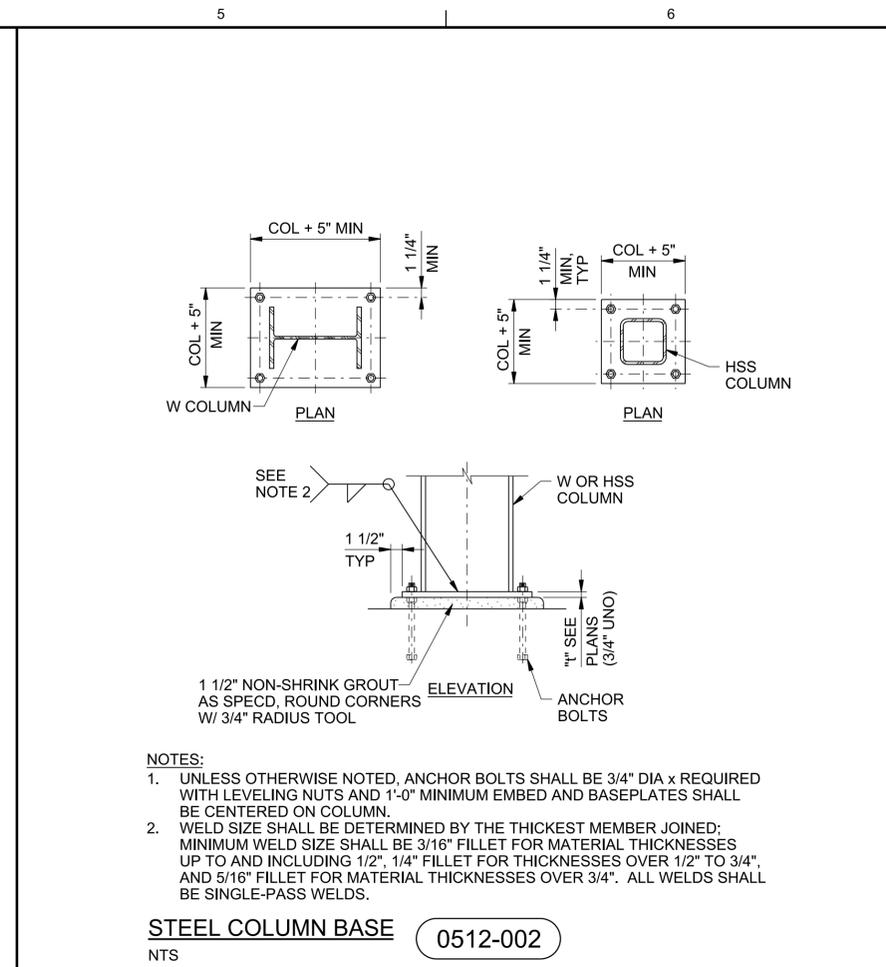
BID DOCUMENTS



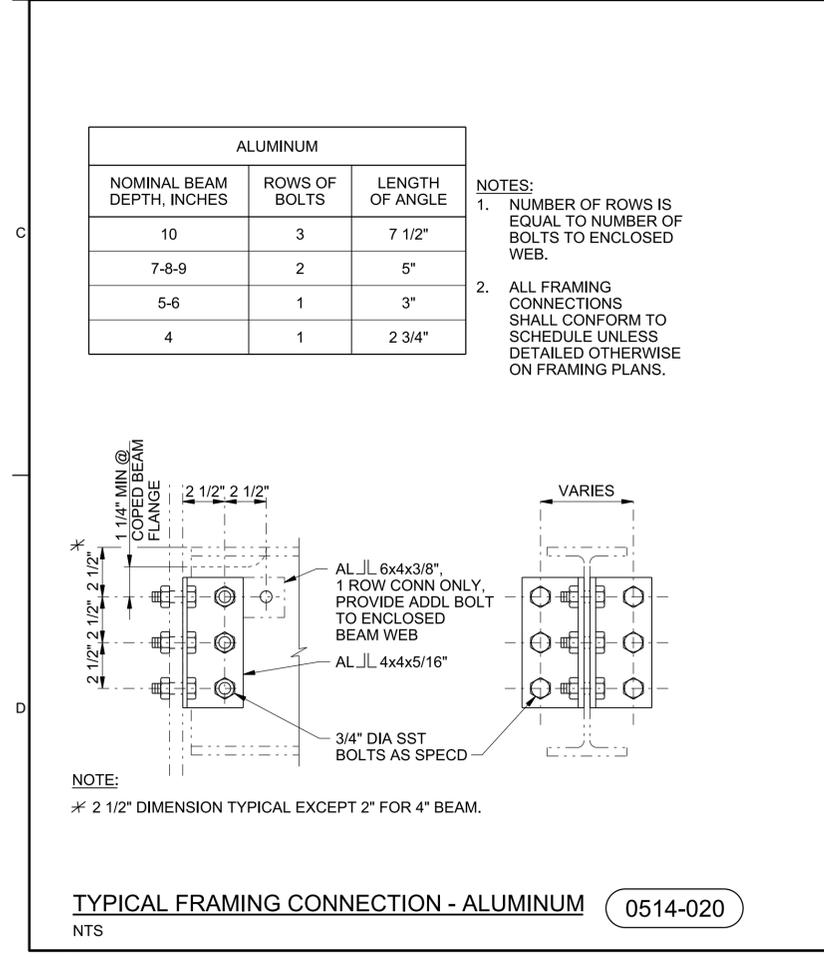
PUMP INSTALLATION 0330-001
NTS



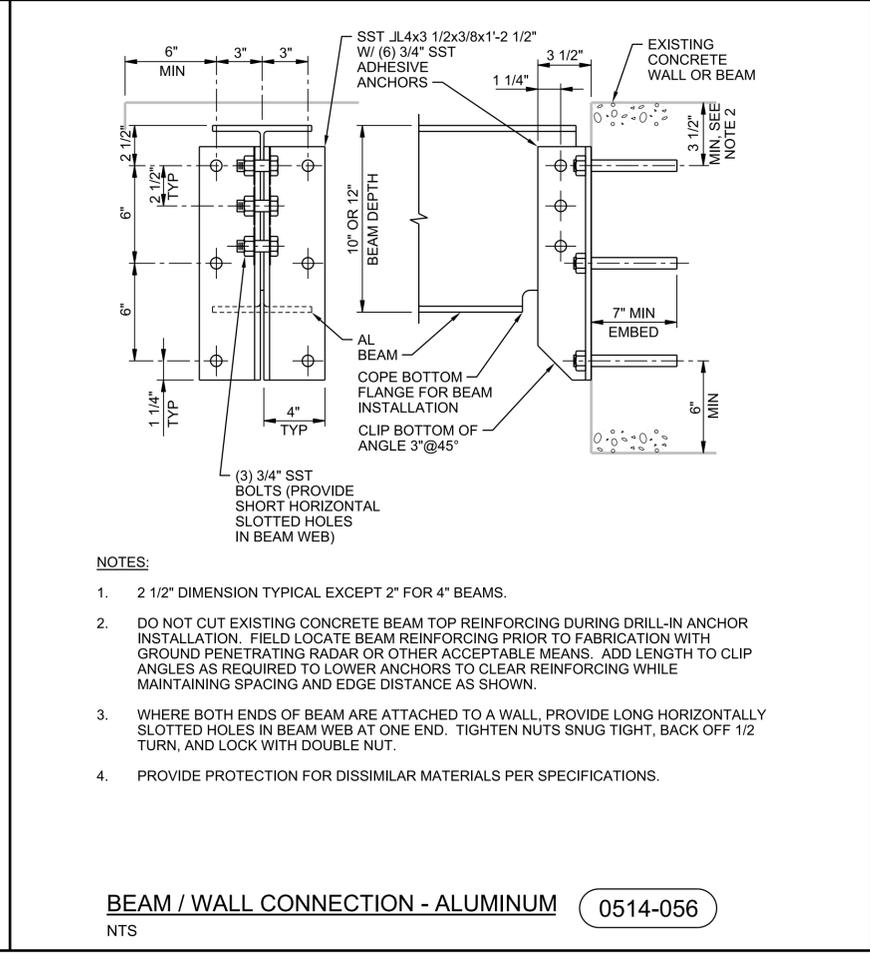
CONCRETE EQUIPMENT PAD - TYPE G 0330-056
NTS



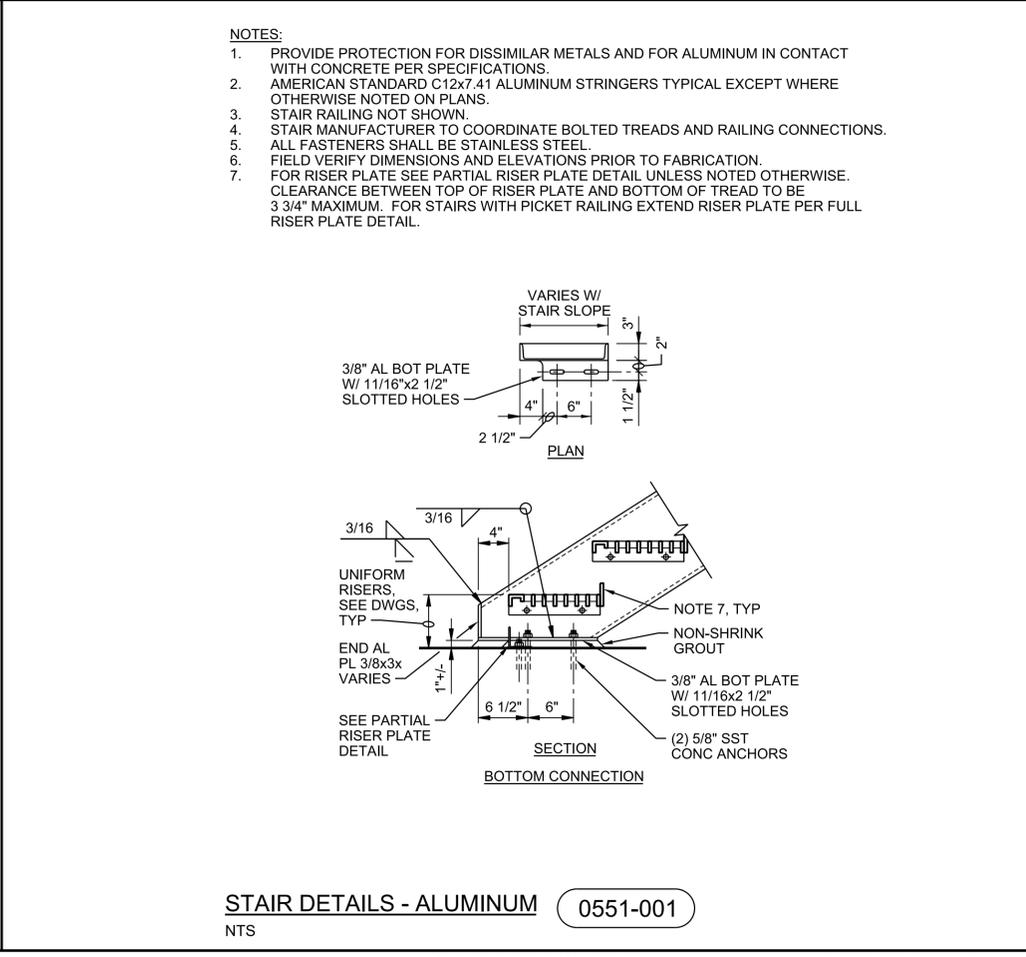
STEEL COLUMN BASE 0512-002
NTS



TYPICAL FRAMING CONNECTION - ALUMINUM 0514-020
NTS



BEAM / WALL CONNECTION - ALUMINUM 0514-056
NTS



STAIR DETAILS - ALUMINUM 0551-001
NTS

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ROCCO DEVILLIERS KOEKEMOER PE 76468

PUMP STATIONS H & B REHABILITATION
AND PUMP STATION GENERATOR REPLACEMENT
CITY OF KEY WEST
KEY WEST, FLORIDA

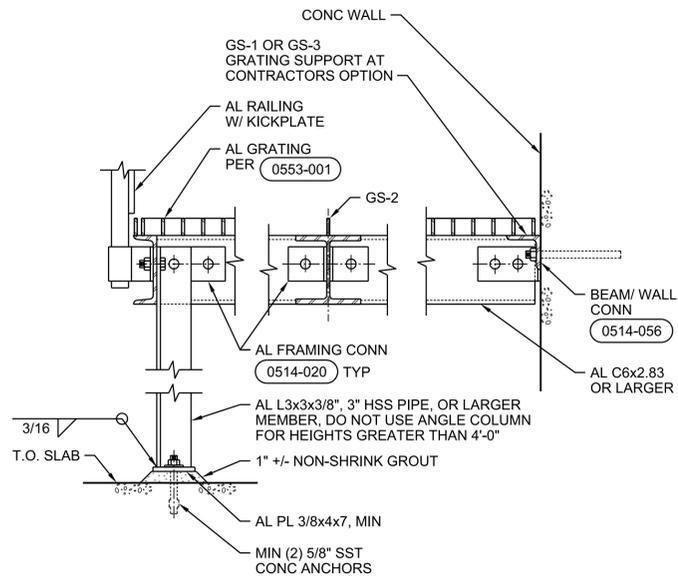
STRUCTURAL
STANDARD DETAILS

AS NOTED
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DATE MAY 2018
PROJ 683450
DWG 095-S-201
SHEET 24 of 30

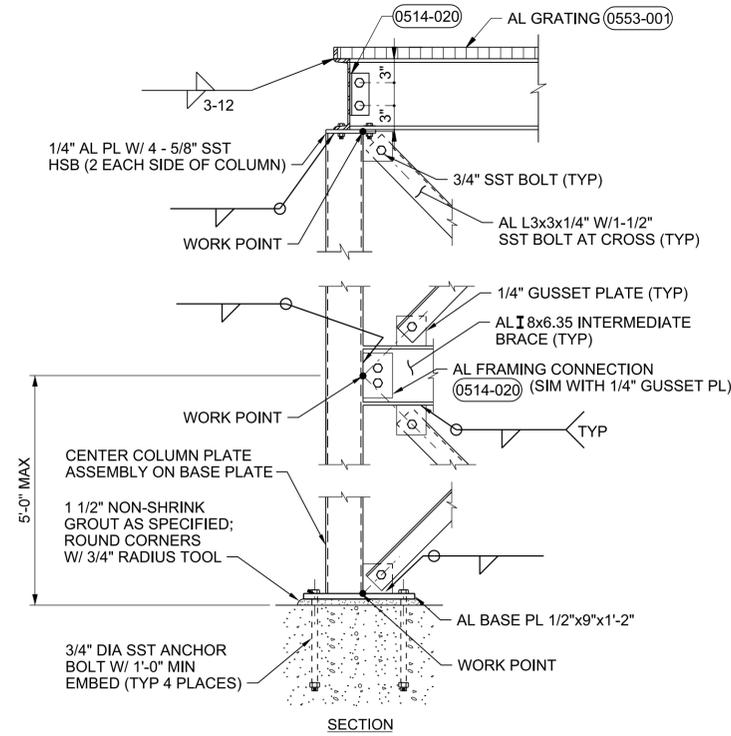
NO. DATE DSGN DR REVISION BY APVD
R KOEKEMOER P RAYMONT D LEVERSON R KOEKEMOER
CHK

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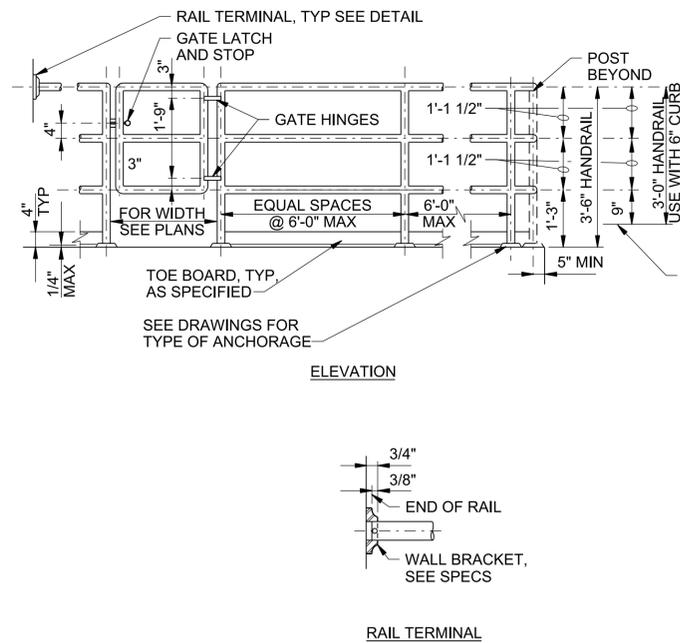


TYPICAL EQUIPMENT PLATFORM - ALUMINUM 0551-201
NTS



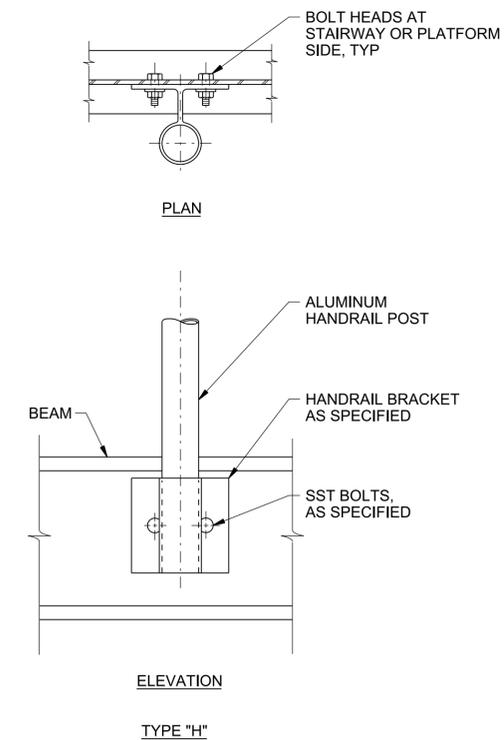
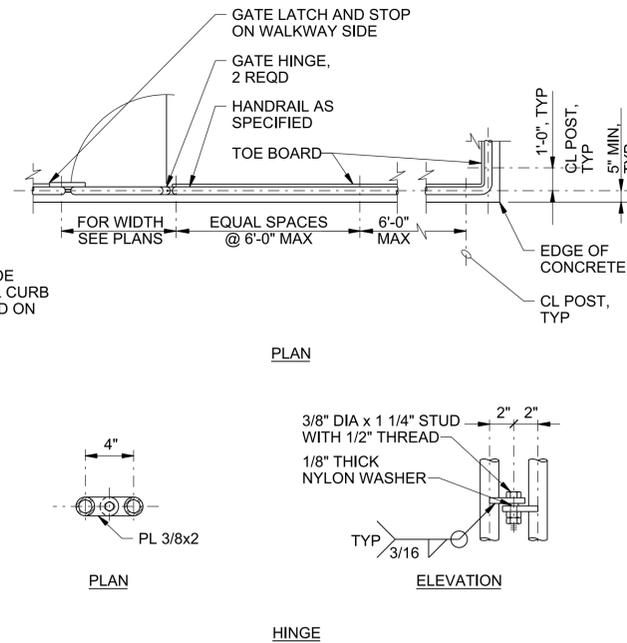
NOTE: HANDRAIL NOT SHOWN FOR CLARITY.

ALUMINUM STAIR LANDING DETAILS 0551-242
NTS



- NOTES:
1. FASTEN RAIL TO WALL BRACKET PER MANUFACTURERS RECOMMENDATIONS.
 2. WALL FLANGE TO BE MOUNTED TO WALL WITH 2 - 3/8" DIA SST WEDGE ANCHORS.

THREE-RAIL HANDRAIL-ALUMINUM



- NOTE:
- PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.

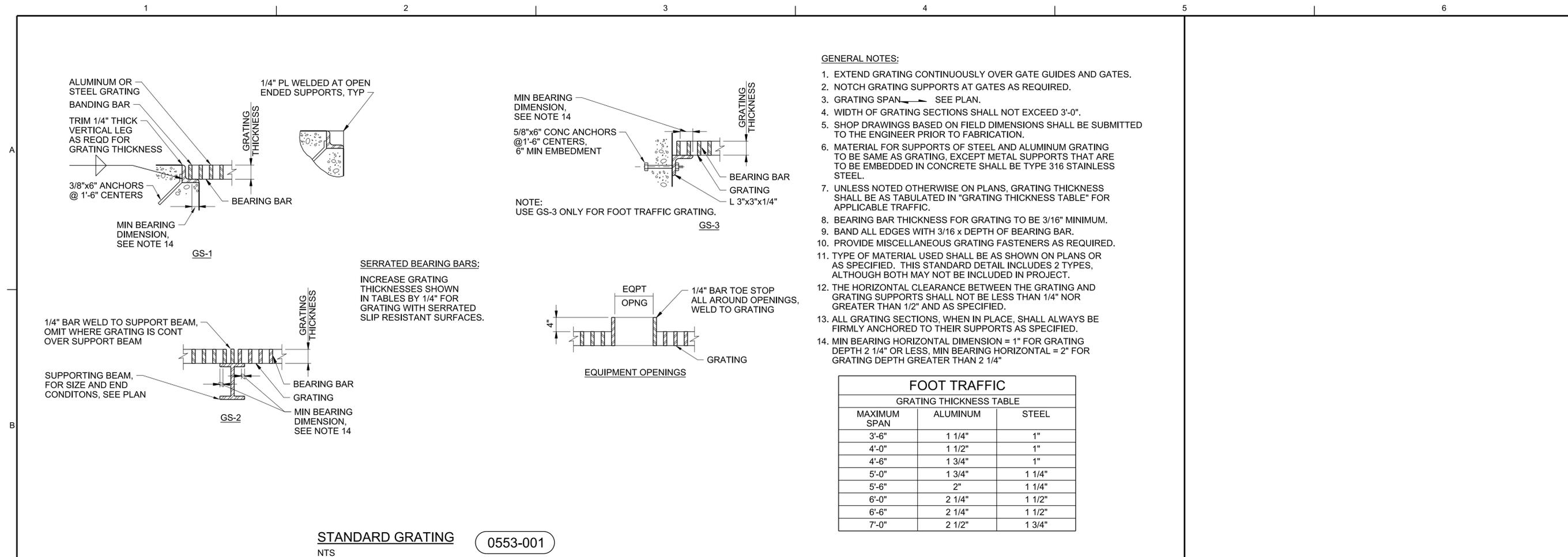
HANDRAIL POST ANCHORAGE-ALUMINUM 0552-001

3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 EB0000072 AAC001982		ROCCO DEVILLIERS KOEKEMOER PE 76468	
PUMP STATIONS H & B REHABILITATION AND PUMP STATION GENERATOR REPLACEMENT CITY OF KEY WEST KEY WEST, FLORIDA		R KOEKEMOER	
NO.	DATE	DR	APVD
		P RAYMONT	D LEVERSON
		CHK	APVD
		REVISION	BY
			APVD
			R KOEKEMOER
STRUCTURAL			
STANDARD DETAILS			
AS NOTED			
VERIFY SCALE			
BAR IS ONE INCH ON ORIGINAL DRAWING.			
DATE	MAY 2018		
PROJ	683450		
DWG	095-S-202		
SHEET	25 of 30		

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STANDARD GRATING
NTS

0553-001

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EB0000072 AAC001982

ROCCO DEVILLIERS KOEKEMOER PE 76468

PUMP STATIONS H & B REHABILITATION
AND PUMP STATION GENERATOR REPLACEMENT
CITY OF KEY WEST
KEY WEST, FLORIDA

STRUCTURAL
STANDARD DETAILS

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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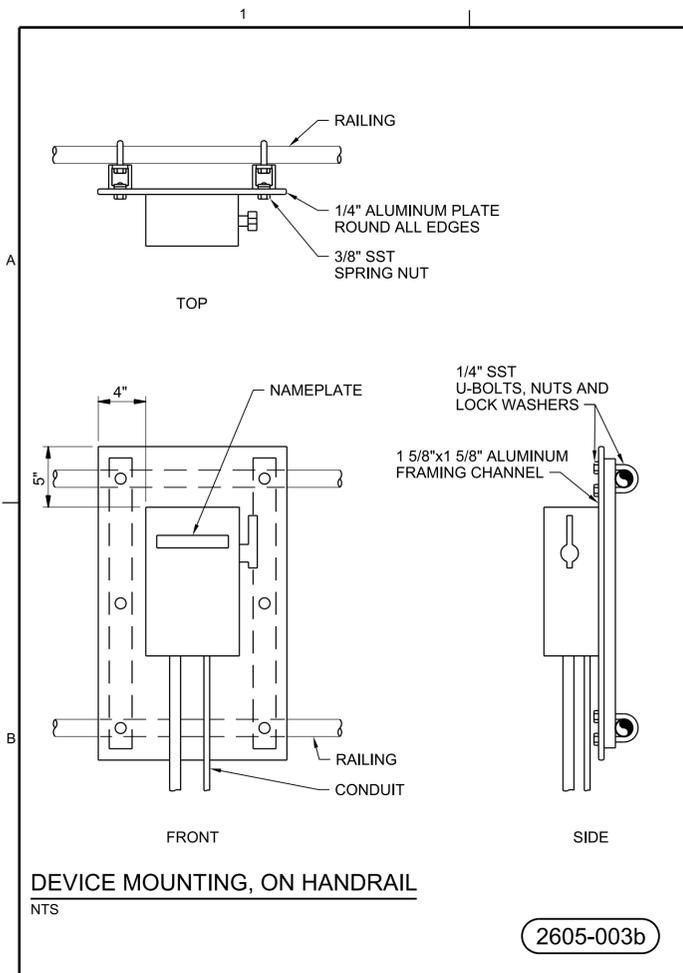
DATE MAY 2018
PROJ 683450
DWG 095-S-203
SHEET 26 of 30

R KOEKEMOER
D LEVERSON
P RAYMONT
DR REVISION
NO. DATE
DSGN CHK APVD BY APVD

R KOEKEMOER

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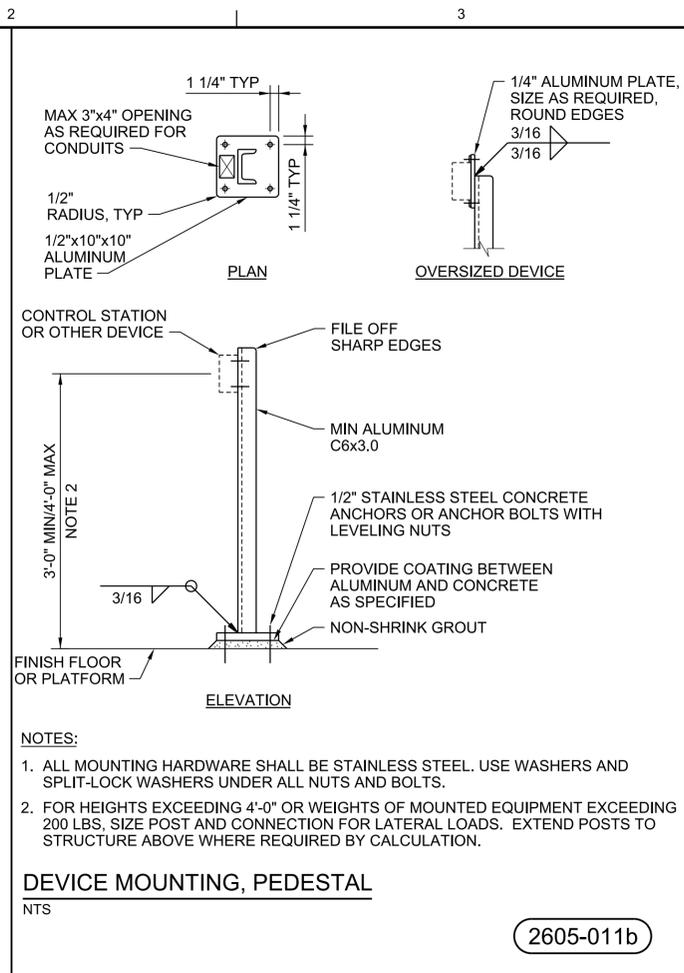
BID DOCUMENTS



DEVICE MOUNTING, ON HANDRAIL

NTS

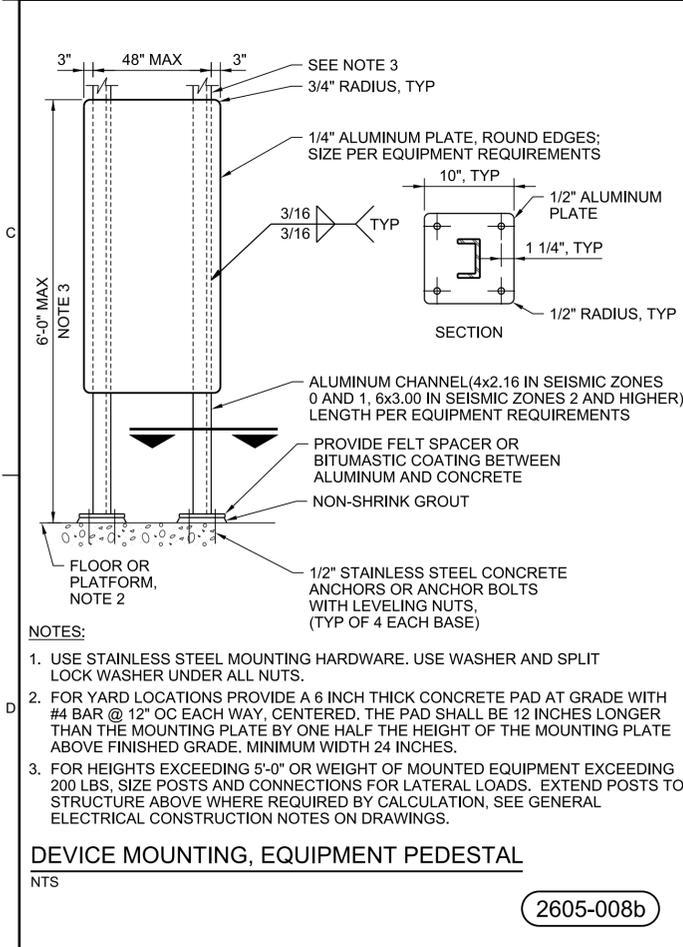
2605-003b



DEVICE MOUNTING, PEDESTAL

NTS

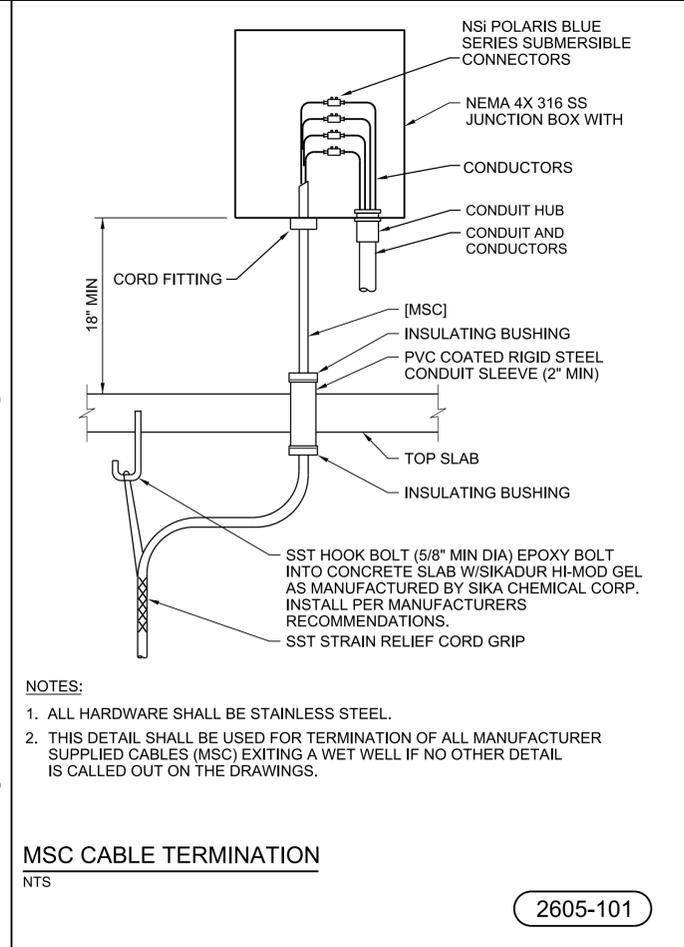
2605-011b



DEVICE MOUNTING, EQUIPMENT PEDESTAL

NTS

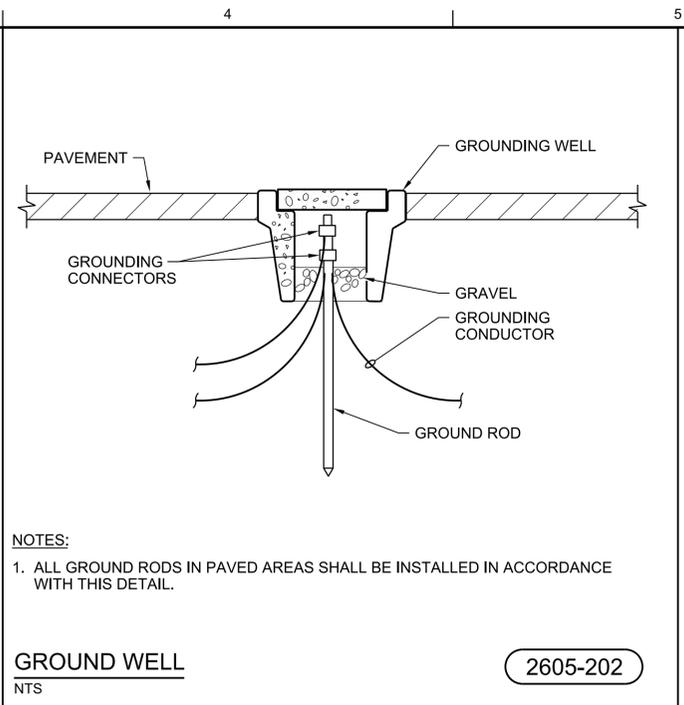
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MSC CABLE TERMINATION

NTS

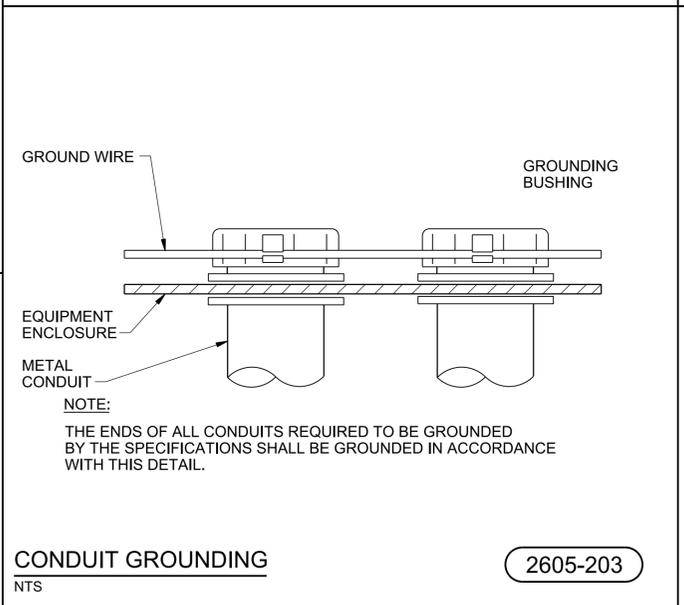
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GROUND WELL

NTS

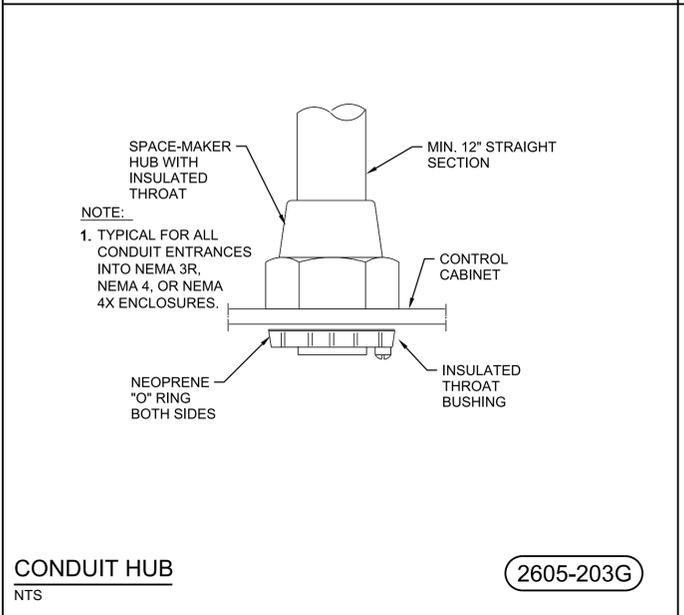
2605-202



CONDUIT GROUNDING

NTS

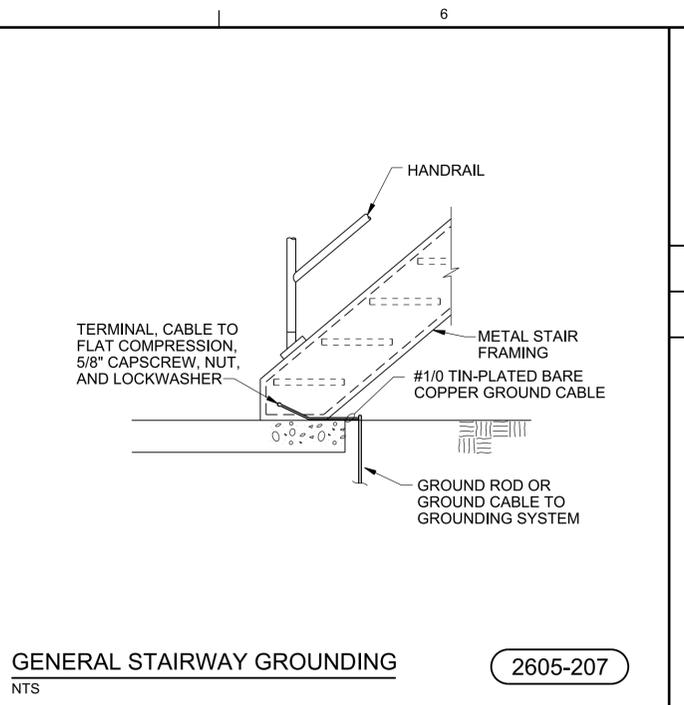
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CONDUIT HUB

NTS

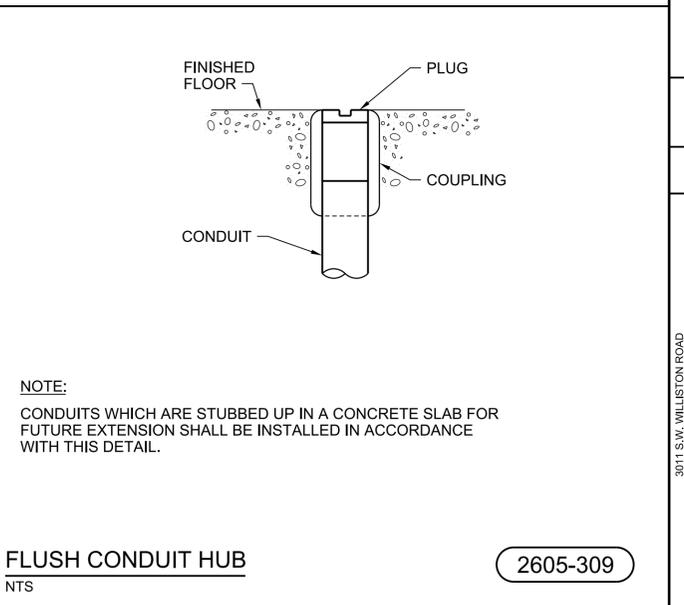
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GENERAL STAIRWAY GROUNDING

NTS

2605-207

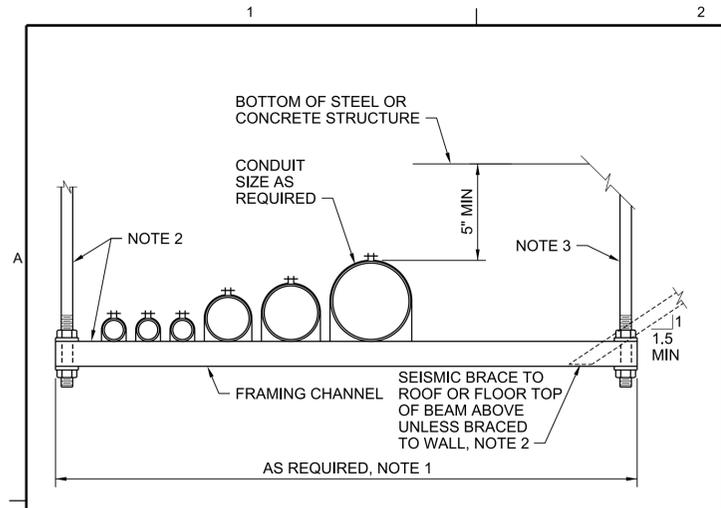


FLUSH CONDUIT HUB

NTS

2605-309

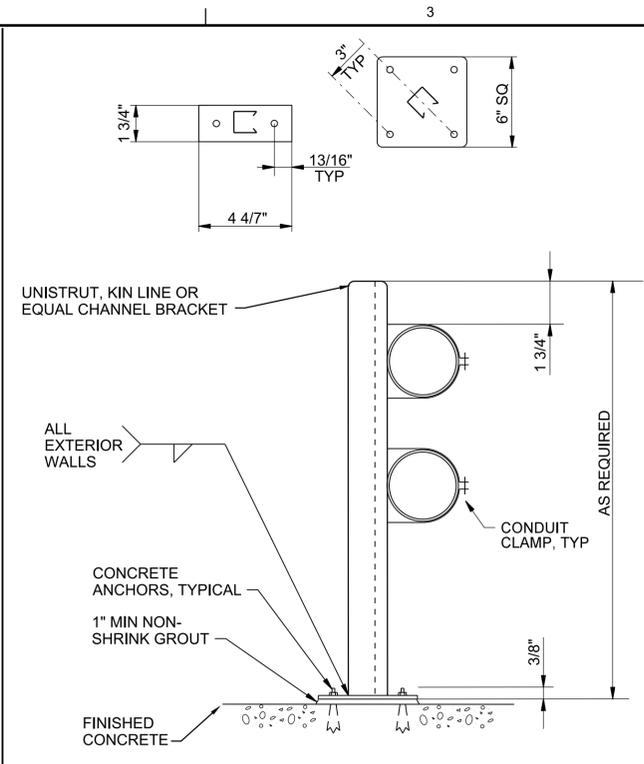
3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 EB0000072 AAC001982		DAVID C. NICHOLSON PE 60201		PUMP STATIONS H & B REHABILITATION AND PUMP STATION GENERATOR REPLACEMENT CITY OF KEY WEST KEY WEST, FLORIDA	
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NO.	DATE	REVISION	CHK	APVD	BY
STANDARD DETAILS					
ELECTRICAL					
1" = X"					
VERIFY SCALE					
BAR IS ONE INCH ON ORIGINAL DRAWING.					
DATE	MAY 2018				
PROJ	683450				
DWG	095-E-501				
SHEET	28 of 30				



- NOTES:**
1. LENGTH VARIES WITH NUMBER OF CONDUITS TO BE SUPPORTED AND SPACING BETWEEN CONDUITS.
 2. DETERMINE SPAN AND TYPE OF SUPPORTS, LOCATE SUPPORTS, AND SIZE SUPPORT RODS, CONNECTIONS AND BRACES PER MANUFACTURER'S RECOMMENDATIONS AND SEISMIC REQUIREMENTS.
 3. AT STEEL STRUCTURE, USE GRINNEL MALLEABLE BEAM CLAMP. AT CONCRETE STRUCTURE, USE UNIVERSAL CONCRETE INSERT, UNISTRUT CHANNEL WITH #4 x 3'-0" BELOW, OR GRINNEL FIGURE 52 ATTACHMENT PLATE, SIMILAR. TYPE AND SIZE AS REQUIRED BY TOTAL LOADS.
 4. USE STAINLESS STEEL HARDWARE IN WET AND/OR CORROSIVE AREAS.
 5. SPACE CONDUIT SUFFICIENTLY TO ALLOW REMOVAL OF ONE CONDUIT WITHOUT DISTURBING ADJACENT CONDUITS.

CONDUIT RACKING SYSTEM
NTS

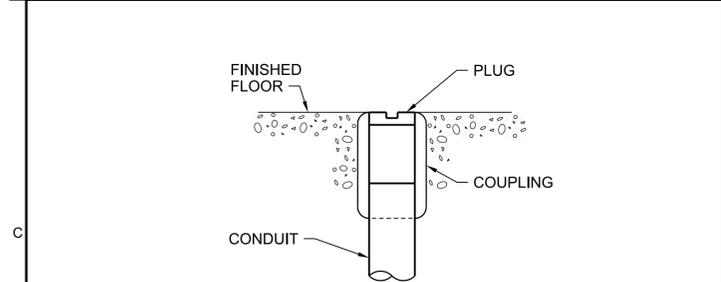
2605-300



- NOTES:**
1. MAXIMUM CONDUIT SIZE TO BE SUPPORTED WITH THIS PIPE SUPPORT IS 4".
 2. USE 1 5/8" X 3 1/4" CHANNEL MINIMUM FOR TWO OR MORE PIPES

CONDUIT SUPPORT
NTS

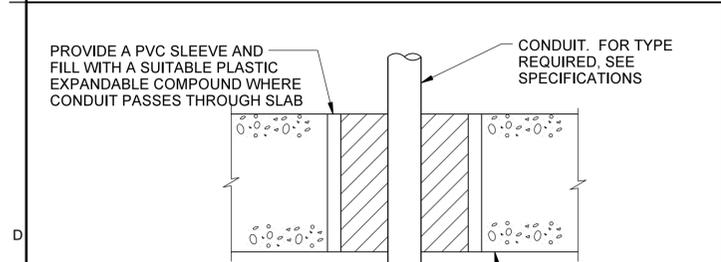
2605-320



- NOTE:**
CONDUITS WHICH ARE STUBBED UP IN A CONCRETE SLAB FOR FUTURE EXTENSION SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL.

FLUSH CONDUIT HUB
NTS

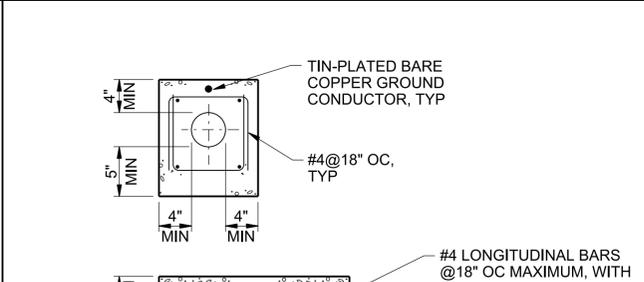
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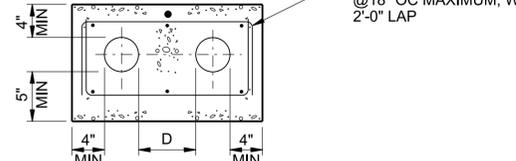
- NOTE:**
ALL CONDUITS THROUGH CONCRETE FLOOR SLABS AND EQUIPMENT PADS SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL.

SLAB PENETRATION
NTS

2605-310



- #4 LONGITUDINAL BARS @18" OC MAXIMUM, WITH 2'-0" LAP



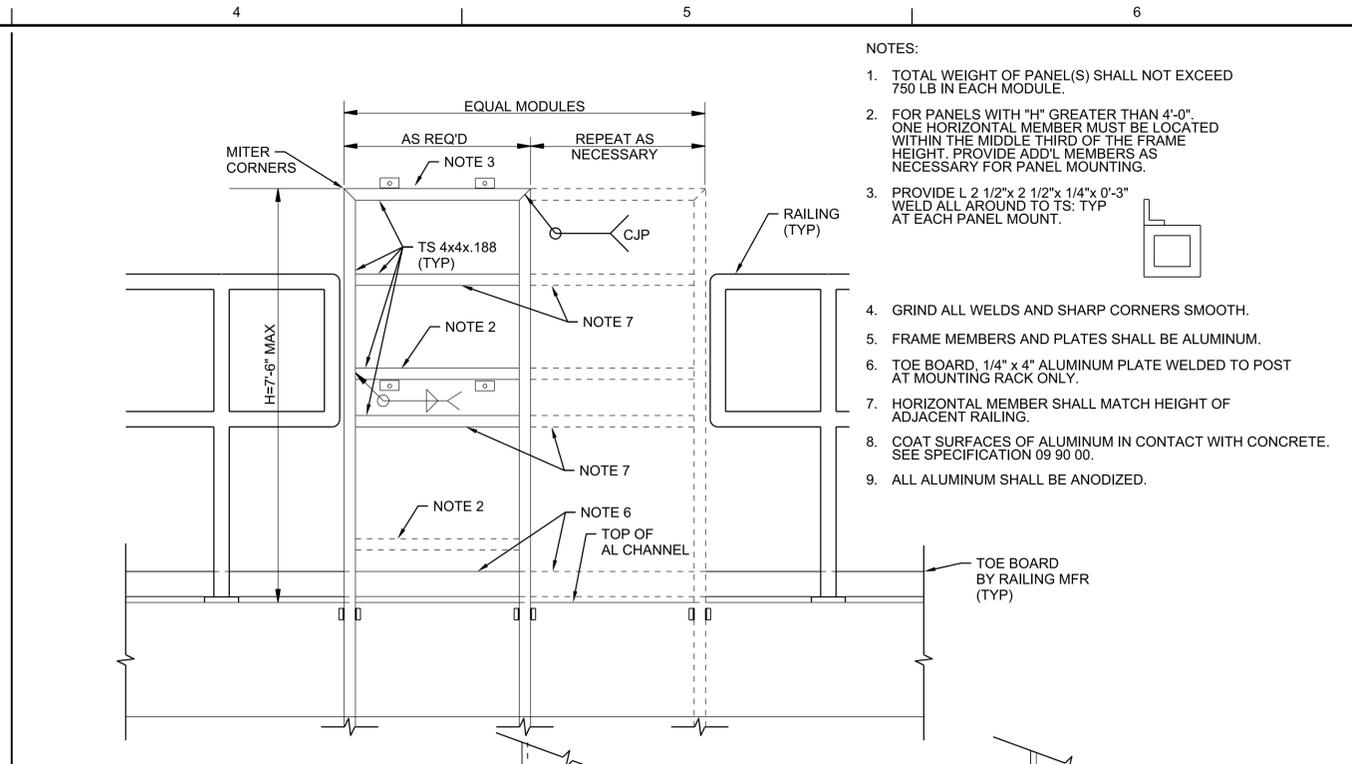
- 3" CLR, (TYP BOT)

- D = 3" FOR 2" AND LARGER CONDUITS
D = 2" FOR 1 1/2" AND SMALLER CONDUITS

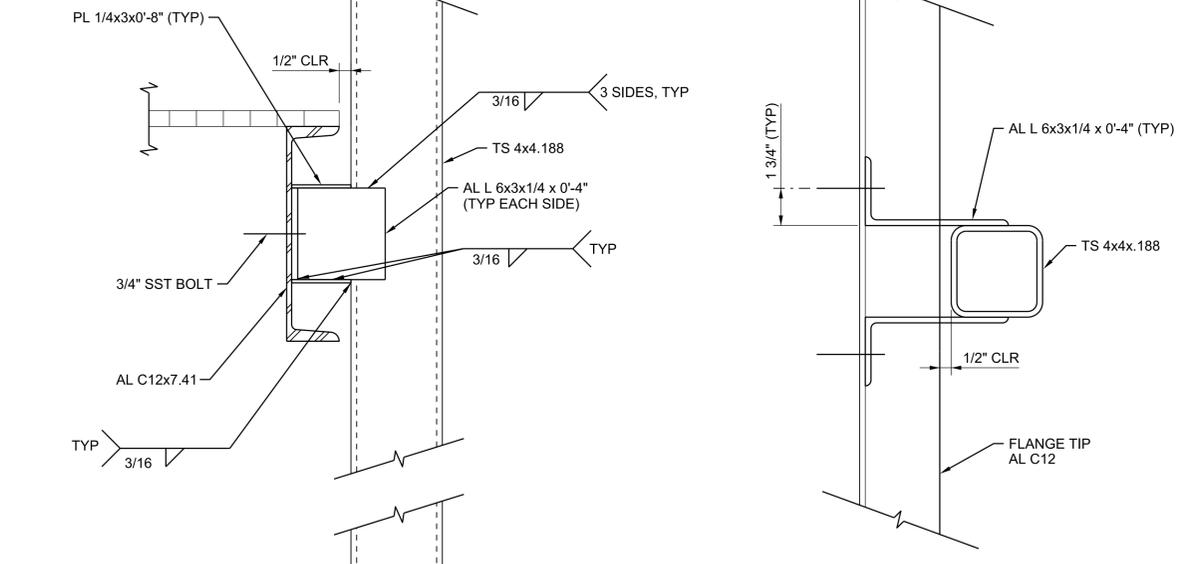
- NOTE:**
PROVIDE 6" MINIMUM COMPACTED GRAVEL, 3/4" MINUS, UNDER ALL CONCRETE ENCASED DUCT RUNS.

DUCT BANK
NTS

2605-400A



- NOTES:**
1. TOTAL WEIGHT OF PANEL(S) SHALL NOT EXCEED 750 LB IN EACH MODULE.
 2. FOR PANELS WITH "H" GREATER THAN 4'-0" ONE HORIZONTAL MEMBER MUST BE LOCATED WITHIN THE MIDDLE THIRD OF THE FRAME HEIGHT. PROVIDE ADD'L MEMBERS AS NECESSARY FOR PANEL MOUNTING.
 3. PROVIDE L 2 1/2"x 2 1/2"x 1/4"x 0'-3" WELD ALL AROUND TO TS: TYP AT EACH PANEL MOUNT.
 4. GRIND ALL WELDS AND SHARP CORNERS SMOOTH.
 5. FRAME MEMBERS AND PLATES SHALL BE ALUMINUM.
 6. TOE BOARD, 1/4" x 4" ALUMINUM PLATE WELDED TO POST AT MOUNTING RACK ONLY.
 7. HORIZONTAL MEMBER SHALL MATCH HEIGHT OF ADJACENT RAILING.
 8. COAT SURFACES OF ALUMINUM IN CONTACT WITH CONCRETE. SEE SPECIFICATION 09 90 00.
 9. ALL ALUMINUM SHALL BE ANODIZED.

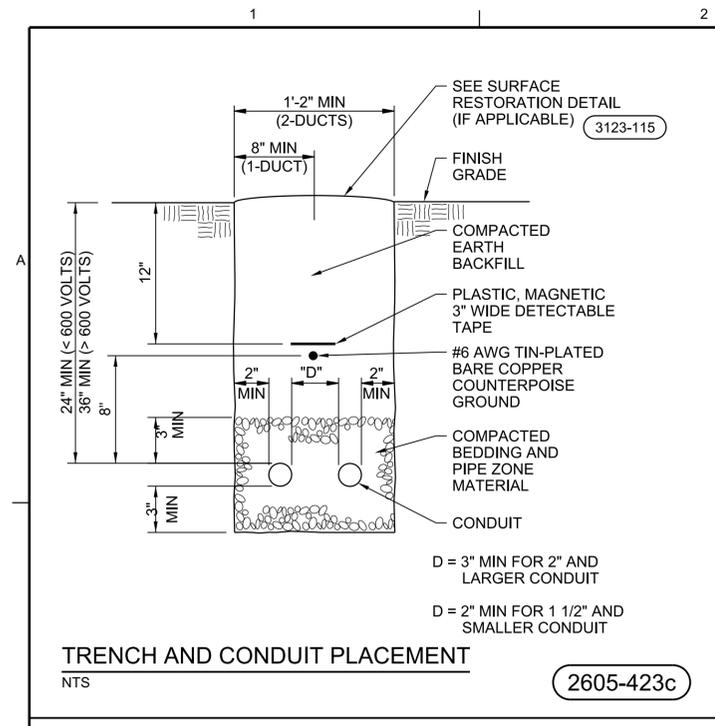


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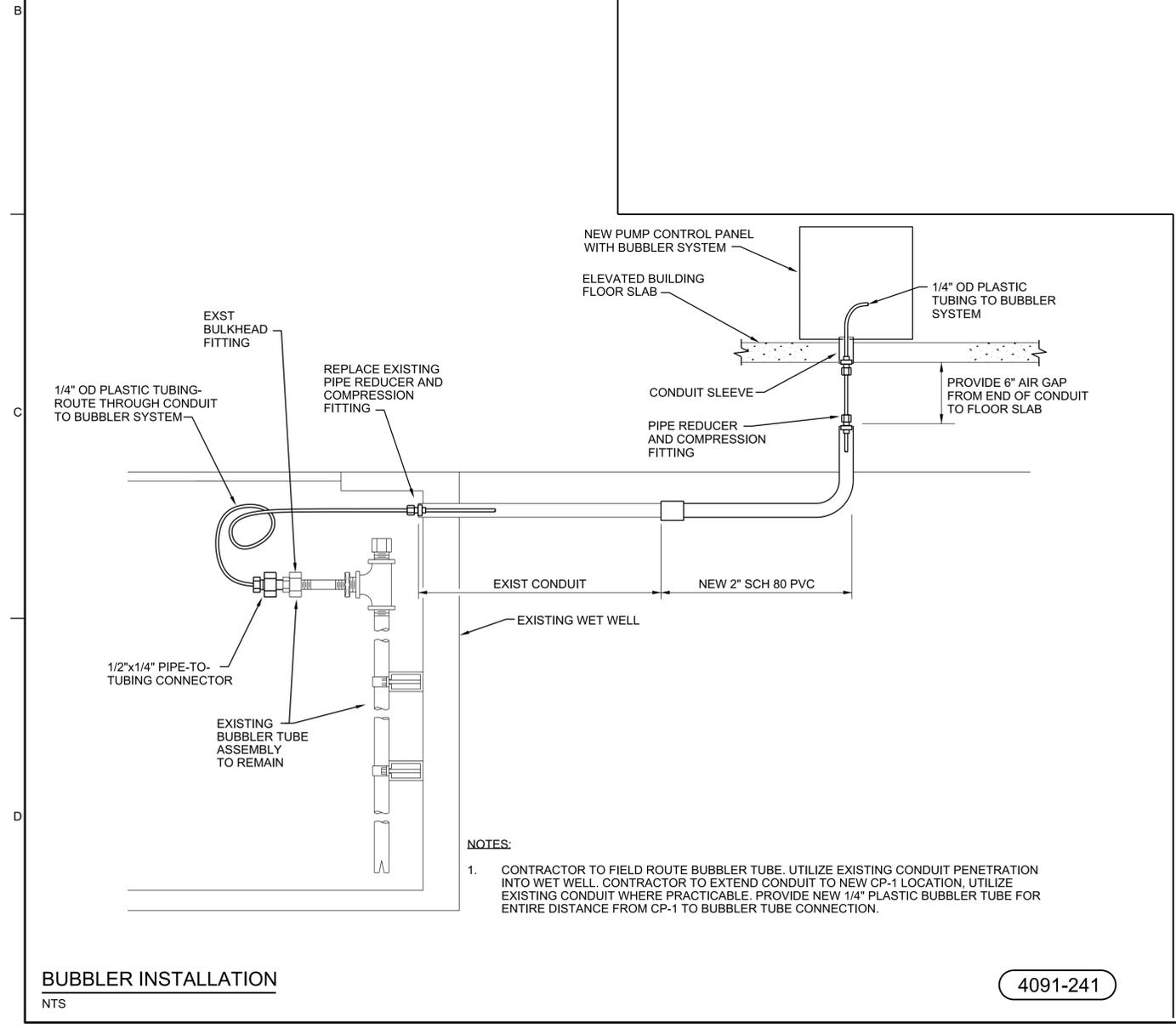
PANEL MOUNTING RACK
NTS

2605-440

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NO.	DATE	DR	APVD	BY	APVD
DSGN		N ADAMS	A PASTRANA	CHK	D NICHOLSON
REVISION					
ch2m					
ELECTRICAL					
STANDARD DETAILS					
1" = X'					
VERIFY SCALE					
BAR IS ONE INCH ON ORIGINAL DRAWING.					
DATE	MAY 2018				
PROJ	683450				
DWG	095-E-502				
SHEET	29 of 30				



TRENCH AND CONDUIT PLACEMENT
NTS 2605-423c



- NOTES:**
- CONTRACTOR TO FIELD ROUTE BUBBLER TUBE. UTILIZE EXISTING CONDUIT PENETRATION INTO WET WELL. CONTRACTOR TO EXTEND CONDUIT TO NEW CP-1 LOCATION, UTILIZE EXISTING CONDUIT WHERE PRACTICABLE. PROVIDE NEW 1/4" PLASTIC BUBBLER TUBE FOR ENTIRE DISTANCE FROM CP-1 TO BUBBLER TUBE CONNECTION.

BUBBLER INSTALLATION
NTS 4091-241

<p>3011 S.W. WILLISTON ROAD GAINESVILLE, FLORIDA 32608 EB0000072 AAC001982</p> <p>DAVID C. NICHOLSON PE 60201</p> <p>PUMP STATIONS H & B REHABILITATION AND PUMP STATION GENERATOR REPLACEMENT CITY OF KEY WEST KEY WEST, FLORIDA</p>		<p>REVISION</p> <p>NO. DATE DSGN DR</p>	<p>BY APVD</p> <p>CHK APVD</p>
<p>ch2m</p> <p>ELECTRICAL</p> <p>STANDARD DETAILS</p>		<p>1" = X'</p> <p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING.</p>	
<p>DATE MAY 2018</p> <p>PROJ 683450</p> <p>DWG 095-E-503</p> <p>SHEET 30 of 30</p>		<p>© CH2M HILL 2018. ALL RIGHTS RESERVED.</p>	