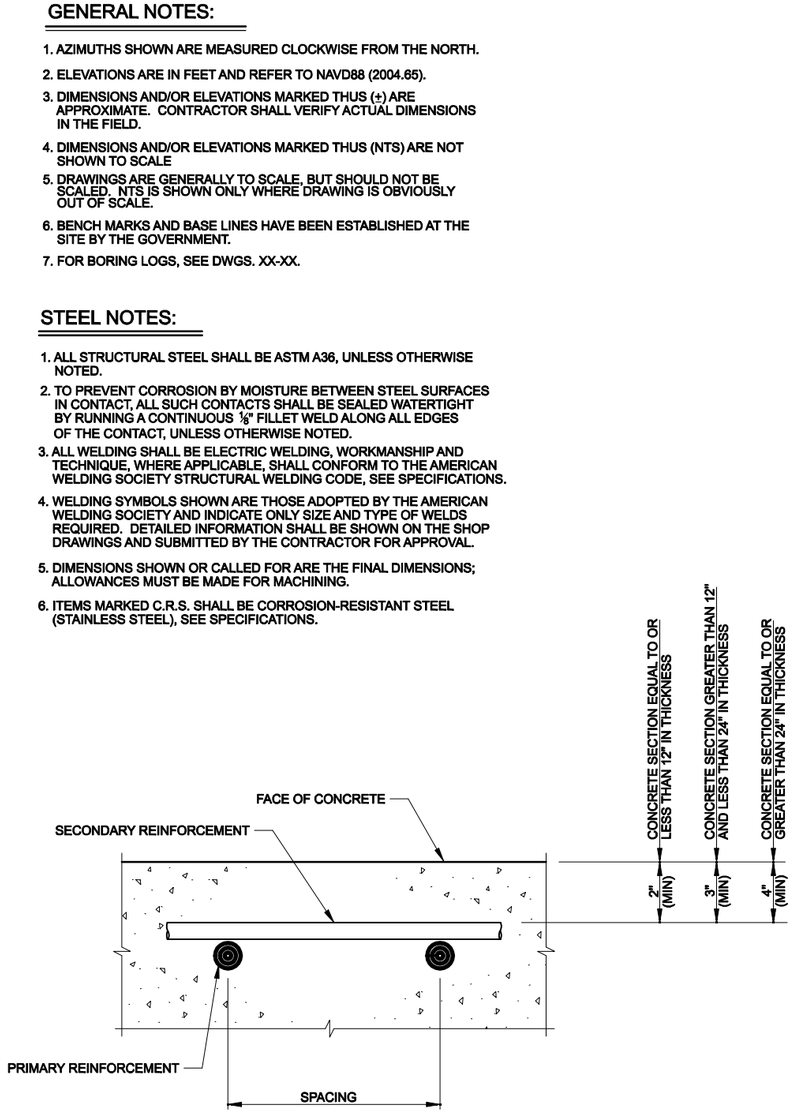
12.0 TYPICAL DRAWINGS AND DETAILS

GENERAL NOTES:

1. AZIMUTHS SHOWN ARE MEASURED CLOCKWISE FROM THE NORTH.
2. ELEVATIONS ARE IN FEET AND REFER TO NAVD88 (2004.65).
3. DIMENSIONS AND/OR ELEVATIONS MARKED THUS (±) ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD.
4. DIMENSIONS AND/OR ELEVATIONS MARKED THUS (NTS) ARE NOT SHOWN TO SCALE
5. DRAWINGS ARE GENERALLY TO SCALE, BUT SHOULD NOT BE SCALED. NTS IS SHOWN ONLY WHERE DRAWING IS OBVIOUSLY OUT OF SCALE.
6. BENCH MARKS AND BASE LINES HAVE BEEN ESTABLISHED AT THE SITE BY THE GOVERNMENT.
7. FOR BORING LOGS, SEE DWGS. XX-XX.

STEEL NOTES:

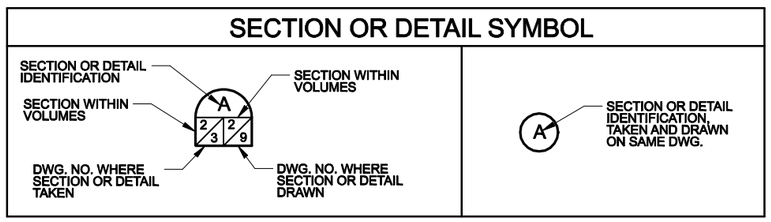
1. ALL STRUCTURAL STEEL SHALL BE ASTM A36, UNLESS OTHERWISE NOTED.
2. TO PREVENT CORROSION BY MOISTURE BETWEEN STEEL SURFACES IN CONTACT, ALL SUCH CONTACTS SHALL BE SEALED WATERTIGHT BY RUNNING A CONTINUOUS ⅛" FILLET WELD ALONG ALL EDGES OF THE CONTACT, UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE ELECTRIC WELDING, WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, SEE SPECIFICATIONS.
4. WELDING SYMBOLS SHOWN ARE THOSE ADOPTED BY THE AMERICAN WELDING SOCIETY AND INDICATE ONLY SIZE AND TYPE OF WELDS REQUIRED. DETAILED INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL.
5. DIMENSIONS SHOWN OR CALLED FOR ARE THE FINAL DIMENSIONS; ALLOWANCES MUST BE MADE FOR MACHINING.
6. ITEMS MARKED C.R.S. SHALL BE CORROSION-RESISTANT STEEL (STAINLESS STEEL), SEE SPECIFICATIONS.



REINFORCEMENT CLEARANCE DETAIL

NTS

SECTION OR DETAIL SYMBOL



CONCRETE NOTES:

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF XXXX PSI AT 28 DAYS, 90 DAYS IF POZZOLAN IS USED, UNLESS OTHERWISE NOTED.
2. STABILIZATION SLAB CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 2500 PSI AT 28 DAYS, 90 DAYS IS POZZOLAN IS USED.
3. REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 60,000 PSI.
4. REINFORCING SHALL BE SPACED TO MISS RECESSES FOR GATE LATCHES.
5. CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE PLACED AT LOCATIONS LEAST LIKELY TO IMPAIR THE INTEGRITY OF THE CONCRETE STRUCTURE. THESE ADDITIONAL CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE CONTRACTING OFFICER.
6. UNLESS OTHERWISE NOTED, PROVIDE ¾" CHAMFER AT ALL EXPOSED JOINTS, EDGES, EXTERNAL CORNERS, AND VERTICAL EXPANSION JOINTS.
7. RESERVED
8. ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SP-66, AMERICAN CONCRETE INSTITUTE DETAILING MANUAL - 1994.
9. REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE.
10. REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS UNLESS OTHERWISE NOTED.
11. REINFORCEMENT, WHERE NECESSARY TO AVOID OPENINGS, PIPES, EMBEDDED ITEMS AND OTHER OBSTRUCTIONS, SHALL BE BENT OR SHIFTED AS DIRECTED BY THE CONTRACTING OFFICER.
12. THE EMBEDMENT AND SPLICE TABLE SHALL BE USED IN DETERMINING LAP SPLICES AND EMBEDMENT LENGTHS WHERE LENGTHS ARE NOT OTHERWISE INDICATED. SPLICE LENGTHS SHALL BE BASED ON THE SMALLER BAR BEING LAPPED. THE CONTRACTOR WILL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED IN THE DRAWINGS, WHERE ESSENTIAL TO CONSTRUCTIBILITY, SUBJECT TO APPROVAL BY THE CONTRACTING OFFICER. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS AND OTHER THAN ANY ADDITIONAL SPLICES REQUIRED BY THE CONTRACTING OFFICER, WILL BE AT THE CONTRACTOR'S EXPENSE.
13. ALL EXTERIOR FORMED SURFACES NOT COVERED BY BACKFILL SHALL BE CLASS "A" FINISH AND SURFACES COVERED BY BACKFILL SHALL BE CLASS "D" FINISH, UNLESS OTHERWISE NOTED.
14. FOR "T-WALL" CONCRETE PLACEMENT, THE CONTRACTOR SHALL EITHER PLACE A CONSTRUCTION JOINT AT APPROXIMATELY MID-WALL HEIGHT OR SHALL EMPLOY TEMPORARY "WINDOWS" IN THE FORMS TO FACILITATE CONCRETE PLACEMENT AND CONSOLIDATION.

REINFORCEMENT EMBEDMENT AND SPLICE TABLES - 3000 PSI

BAR SIZE	BASIC TABLE				ALTERNATE TABLE			
	MINIMUM EMBEDMENT LENGTH, INCHES		MINIMUM LAP LENGTH INCHES		MINIMUM EMBEDMENT LENGTH, INCHES		MINIMUM LAP LENGTH INCHES	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	21	16	28	21	13	12	17	13
4	28	22	37	28	17	13	22	17
5	36	27	46	36	21	16	28	21
6	43	33	56	43	26	20	33	26
7	62	48	81	62	37	29	49	37
8	71	55	93	71	43	33	44	43
9	80	62	104	80	48	37	50	48
10	89	68	116	89	53	41	56	53
11	98	75	127	98	59	45	61	59

REINFORCEMENT EMBEDMENT AND SPLICE TABLES - 4000 PSI

BAR SIZE	BASIC TABLE				ALTERNATE TABLE			
	MINIMUM EMBEDMENT LENGTH, INCHES		MINIMUM LAP LENGTH INCHES		MINIMUM EMBEDMENT LENGTH, INCHES		MINIMUM LAP LENGTH INCHES	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	18	14	24	18	12	12	14	12
4	25	19	32	25	15	12	19	15
5	31	24	40	31	18	14	24	18
6	37	28	48	37	22	17	29	22
7	54	42	70	54	32	25	42	32
8	62	47	80	62	37	28	48	37
9	69	53	90	69	42	32	54	42
10	77	59	100	77	46	36	60	46
11	85	65	110	85	51	39	66	51

NOTES:

1. USE THE BASIC TABLE IF ALL THE FOLLOWING CONDITIONS ARE MET:
   A) CENTER-TO-CENTER BAR SPACING LATERALLY IS AT LEAST 3 BAR DIAMETERS.
   B) DISTANCE FROM THE CENTER OF A BAR TO THE NEAREST CONCRETE SURFACE MUST BE AT LEAST 2 BAR DIAMETERS.
2. THE ALTERNATE TABLE MAY BE USED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
   A) CENTER-TO-CENTER BAR SPACING LATERALLY IS AT LEAST 5 BAR DIAMETERS.
   B) DISTANCE FROM THE CENTER OF A BAR TO THE NEAREST CONCRETE SURFACE MUST BE AT LEAST 2.5 BAR DIAMETERS.
3. IF CONCRETE COVER OR EDGE DISTANCE IS LESS THAN 1 BAR DIAMETER OF THE CENTER-TO-CENTER BAR SPACING LATERALLY IS LESS THAN 3 BAR DIAMETERS, SEE ACI 318 FOR APPROPRIATE GUIDANCE.
4. TOP BARS ARE HORIZONTAL BARS AND BARS INCLINED LESS THAN 45 DEGREES WITH RESPECT TO A HORIZONTAL PLANE WHICH ARE PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
5. THE TABLES SHOWN ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING BARS. IF EPOXY-COATED BARS ARE USED, SEE ACI 318 FOR ADDITIONAL CONSIDERATIONS.

ABBREVIATIONS

ALT. SP.	= ALTERNATE SPACING
AZ	= AZIMUTH
B/L	= BASELINE
BF	= BOTTOM FACE
BL	= BOTTOM LAYER
C	= CENTER
CB	= CATCH BASIN
C.I.	= CAST IRON
CJ	= CONSTRUCTION JOINT
CL	= CLEAR COVER
C/L OR ℄	= CENTER LINE
C.R.S.	= CORROSION-RESISTANT STEEL
Ø	= DIAMETER
D	= DRAIN
D.I.	= DROP INLET
D.P.	= DRAIN PIPE
D/S	= DOWNSTREAM
D.V.	= DRAIN VALVE
D.V. MH.	= DRAIN VALVE MANHOLE
E	= ELECTRICAL
EF	= EACH FACE
EL.	= ELEVATION
ES	= EQUALLY SPACED
F.H.	= FIRE HYDRANT
FF	= FAR FACE
FS	= FAR SIDE
G	= GAS
H.S.	= HIGH STRENGTH
LP	= LIGHT POLE
LS	= LIGHT STANDARD
MH	= MANHOLE
NF	= NEAR FACE
NS	= NEAR SIDE
N.T.S.	= NOT TO SCALE
O.C.	= ON CENTER
OPT.	= OPTIONAL
OS	= OFFSET
P	= POWER
P.C.	= POINT OF CURVATURE
P.T.	= POINT OF TANGENCY
S	= SEWER
SB/L	= SUBBASELINE
S.C.O.	= SEWER CLEANOUT
STD. HK.	= STANDARD HOOK
STA.	= STATION
T	= TELEPHONE
TD	= TRENCH DRAIN
TF	= TOP FACE
TEL.M.H.	= TELEPHONE MANHOLE
TL	= TOP LAYER
TP	= TEST PILE
U.O.N.	= UNLESS OTHERWISE NOTED
U/S	= UPSTREAM
W	= WATER
W/L	= WALL LINE
W.M.	= WATER METER
W.V.	= WATER VALVE

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NEW ORLEANS DISTRICT

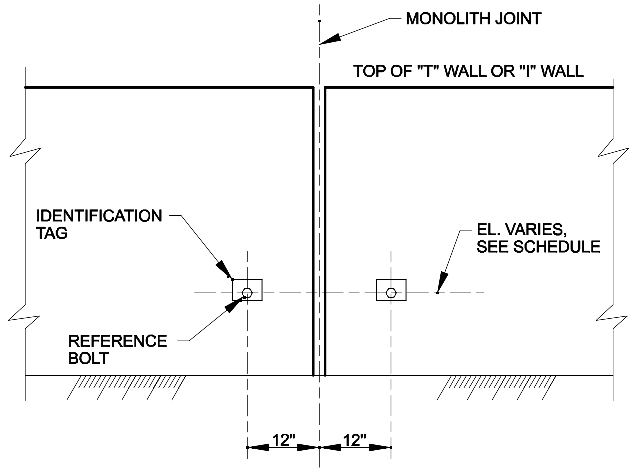
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1/2" = 1"
PLOT DATE:
FILE NUMBER: A&E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP01.DGN

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
GENERAL DRAWINGS
GENERAL NOTES
~

SHEET IDENTIFICATION
X-00



PROTECTED SIDE

TYPICAL ELEVATION OF SETTLEMENT REFERENCE MARKER

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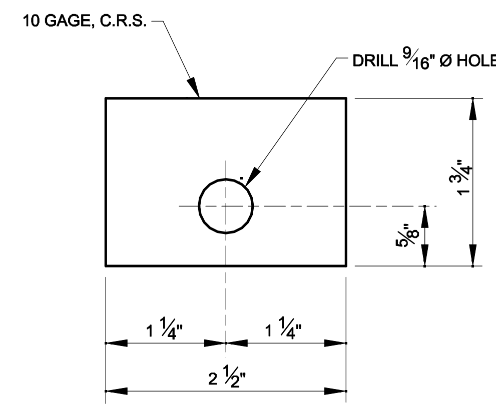


IDENTIFICATION TAG

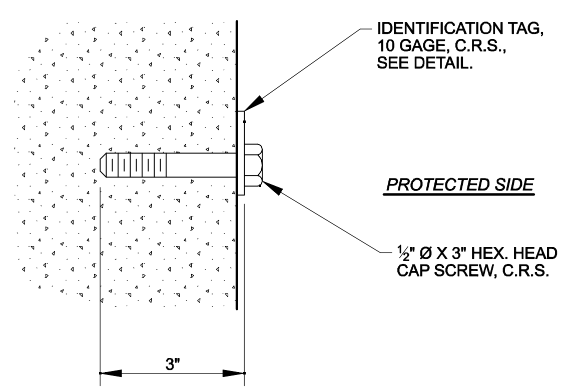
SCALE: 1" = 1' - 0"

SETTLEMENT REFERENCE MARKER SCHEDULE

S.R.M. NO.	W/L STATION * (C/L MONOLITH JOINT)	ELEVATION * *

* W/L STATIONS ARE APPROXIMATE. LOCATE REFERENCE BOLTS AT NEAREST W/L STATION TO THOSE SHOWN.

* * NOTE: THE CONTRACTOR SHALL TAKE FINAL ELEVATIONS OF ALL SETTLEMENT REFERENCE MARKERS AND SHALL SUBMIT THIS DATA TO THE CONTRACTING OFFICER REPRESENTATIVE (COR). THE COR WILL FURNISH THIS DATA TO ENGINEERING DIVISION. ATTENTION OF: CEMVN-ED-T



REFERENCE BOLT

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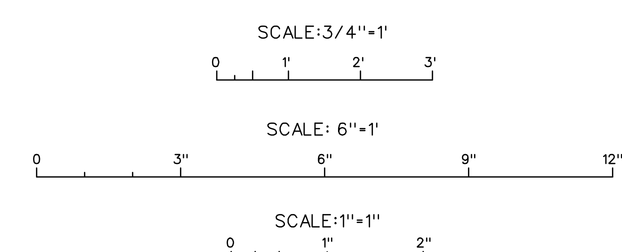

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MARK	DESCRIPTION	DATE	APPR.

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U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DATE: MAY 2008
DWN BY:
CKD BY:
SOLICITATION NO.:
SUBMITTED BY:
CONTRACT NO.:
PLOT SCALE: 12"=1'
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP02.DGN

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A/E TYPICAL DRAWINGS
~
GENERAL DRAWINGS
SETTTLEMENT REFERENCE MARKERS
~

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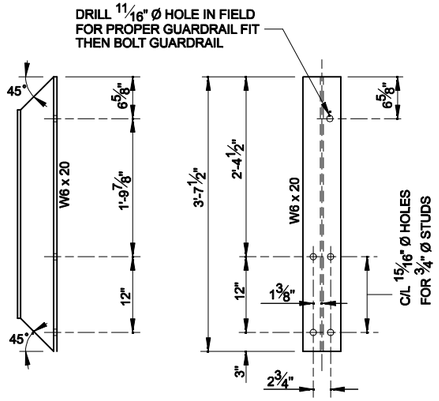
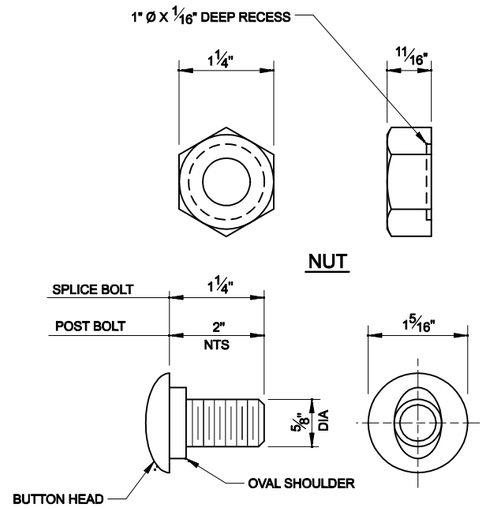


BRIDGE GUARDRAIL POST DETAIL

SCALE: 1" = 1'- 0"



BUTTON HEAD BOLT

GUARDRAIL SPLICE BOLT AND POST BOLT

SCALE: 1" = 1' - 0"

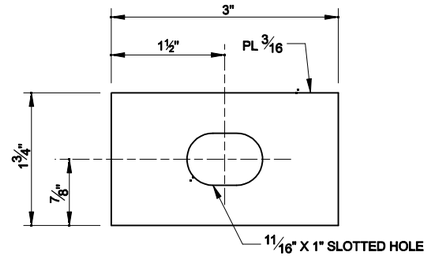
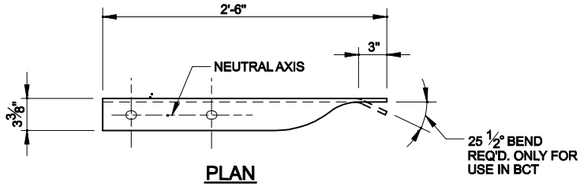
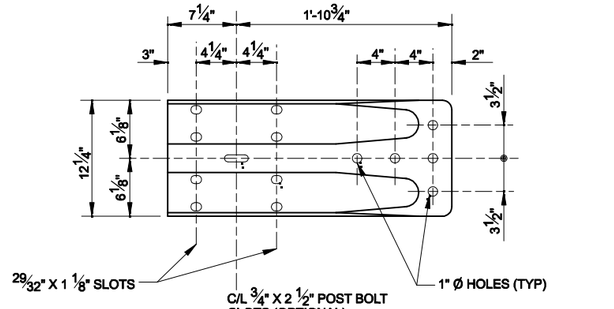


PLATE WASHER

SCALE: 1" = 1' - 0"



PLAN



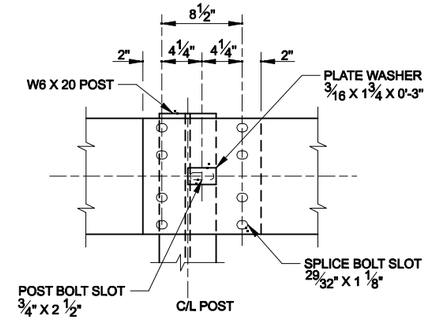
ELEVATION

W BEAM TERMINAL CONNECTOR

SCALE: 1 1/2" = 1' - 0"

NOTE:

ALL RAIL COMPONENTS EXCEPT THE W AND THRIE BEAM TERMINAL CONNECTORS SHALL MEET AASHTO M-180, CLASS A METAL THICKNESS WITH A TYPE II COATING. THE W BEAM AND THRIE BEAM TERMINAL CONNECTORS SHALL BE CLASS B METAL THICKNESS WITH TYPE II COATING.

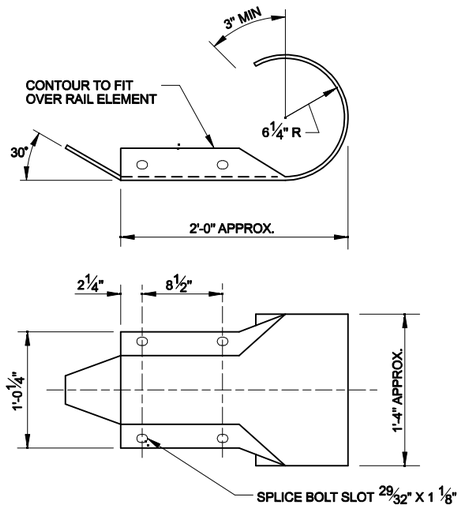


NOTE: LAP IN DIRECTION OF TRAFFIC.

ELEVATION

W BEAM SPLICE DETAIL - W6 POST

SCALE: 1 1/2" = 1' - 0"



W BEAM END SECTION (ROUNDED)

SCALE: 1 1/2" = 1' - 0"

SCALE: 1"=1"
0 1' 2'

SCALE:1-1/2"=1'
0 6" 1' 2'

SCALE: 6"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS
PLOT SCALE:
PLOT DATE:
FILE NAME: AE-TYPDLGN
SIZE: ANSI D

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NEW ORLEANS, LOUISIANA

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A/E TYPICAL DRAWINGS
-
GENERAL DRAWINGS
GUARDRAIL DETAILS
(1 OF 2)

SHEET IDENTIFICATION
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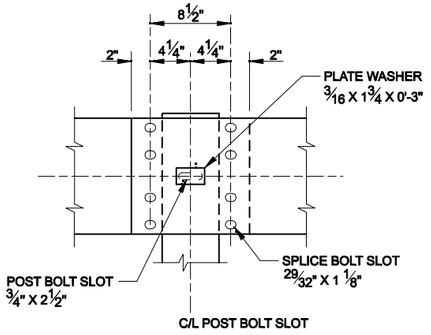
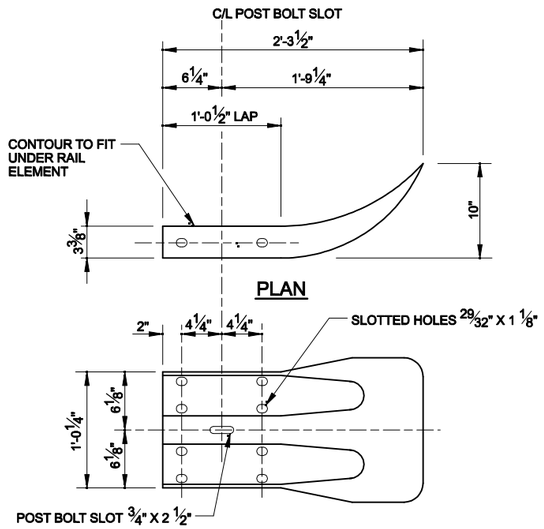


NOTE: LAP IN DIRECTION OF TRAFFIC.

ELEVATION

W BEAM SPLICE DETAIL - WOOD POST

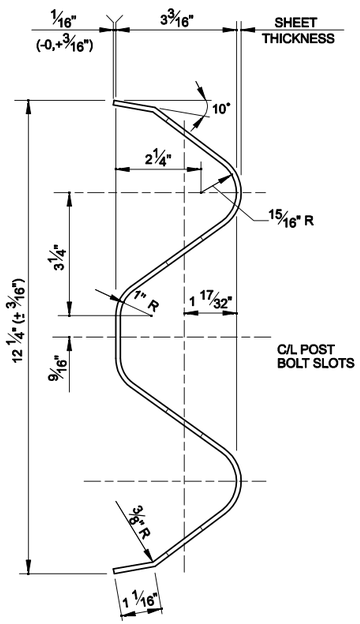
SCALE: 1 ½" = 1' - 0"



ELEVATION

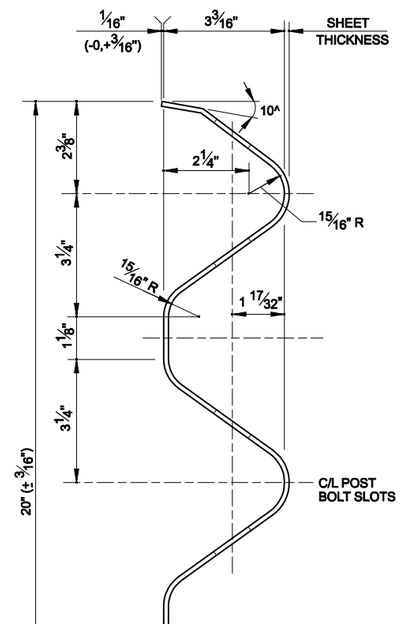
W BEAM END SECTION (FLARED)

SCALE: 1 ½" = 1' - 0"



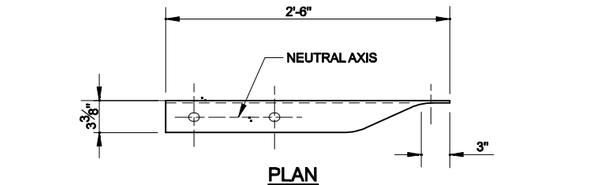
W BEAM - SECTION

SCALE: 6" = 1' - 0"

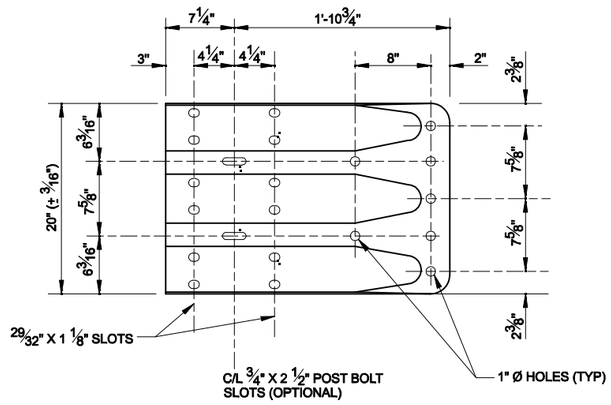


THRIE BEAM - SECTION

SCALE: 6" = 1' - 0"



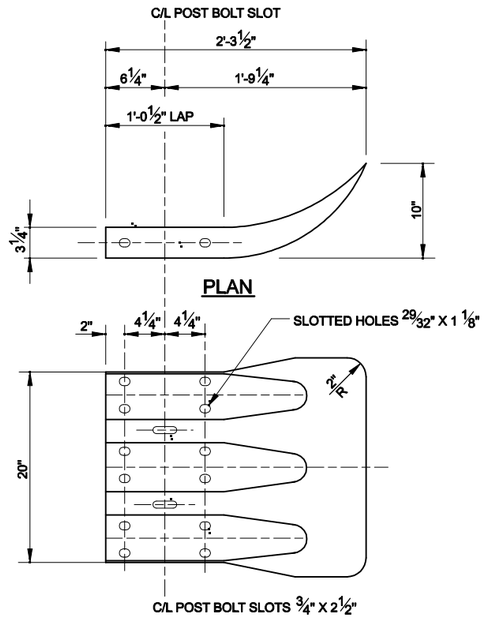
PLAN



ELEVATION

THRIE BEAM TERMINAL CONNECTOR

SCALE: 1 ½" = 1' - 0"



ELEVATION

FLARED END SECTION FOR THRIE BEAM

SCALE: 1 ½" = 1' - 0"

SCALE:1-1/2"=1'

0 6" 1' 2'

SCALE: 6"=1'

0 3" 6" 9" 12"

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MARK	DESCRIPTION	DATE	APPR.

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NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
CK'D BY:
PLOT SCALE:
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPXLDGN
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS

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A/E TYPICAL DRAWINGS
-
GENERAL DRAWINGS
GUARDRAIL DETAILS
(2 OF 2)

SHEET IDENTIFICATION
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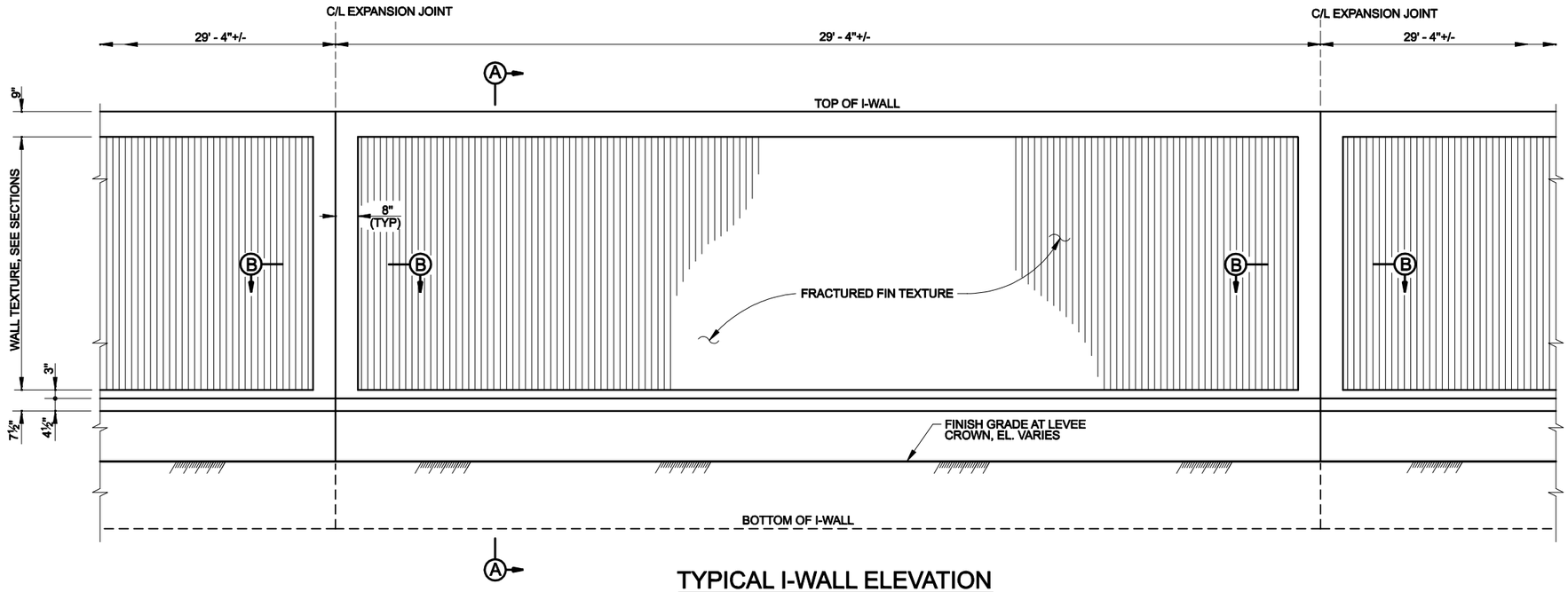
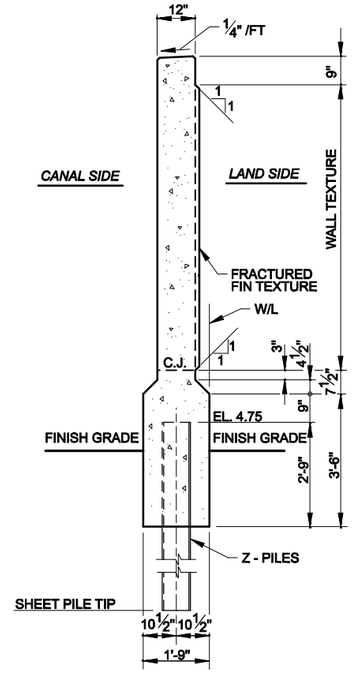


TYPICAL I-WALL ELEVATION

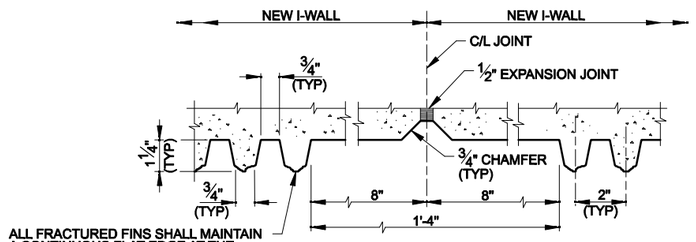
PROTECTED SIDE TEXTURE FINISH

SCALE: ½ " = 1'- 0"



SECTION Ⓐ

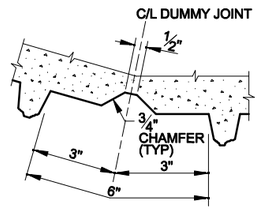
SCALE: ½ " = 1'- 0"



SECTION Ⓑ

TYPICAL TEXTURE AT EXPANSION JOINTS

NTS



SPECIAL TEXTURE AT P.I.

NTS

NOTES:

1. ALL FORM TIE BOLTS SHALL BE PLACED IN THE VALLEY OF THE FRACTURED FIN TEXTURE (i.e., BETWEEN ADJACENT FINS).
2. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE OCCURRENCE OF BUTT JOINTS. CONTRACTOR SHALL SUBMIT, FOR PRIOR APPROVAL, DRAWINGS SHOWING THE LOCATION OF ALL BUTT JOINTS IN FORMS USED FOR CONSTRUCTION.
3. NO ARCHITECTURAL FINISH ON CANAL SIDE.

SCALE:1/2"=1'

0 1' 2' 4'

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MARK	DESCRIPTION	DATE	APPR.

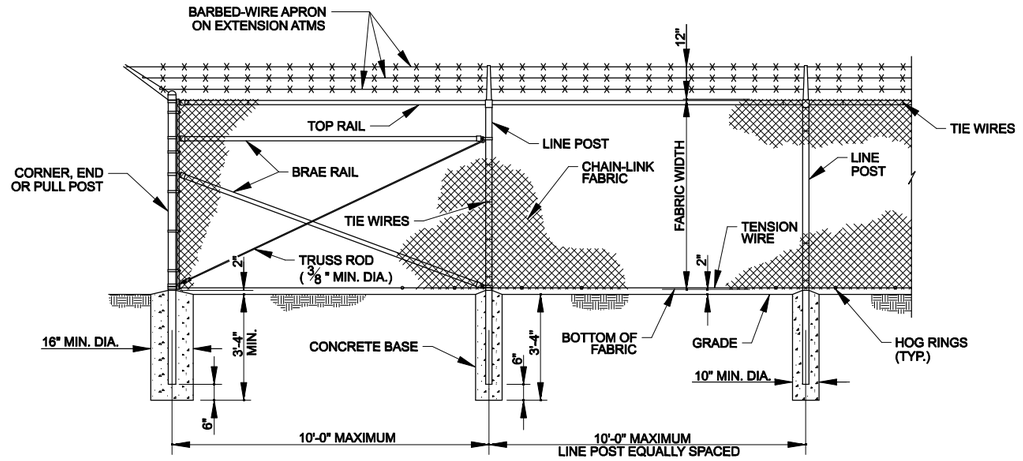
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
CKD BY:
PLOT SCALE: 1/2" = 1'
SIZE: ANSI D
SOLICITATION NO.:
CONTRACT NO.:
PLOT DATE:
FILE NAME: AE-TYPXLDSN
FILE NUMBER: A/E TYDCAS

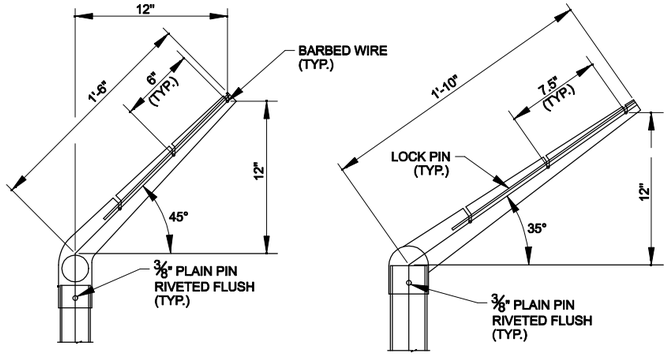
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
GENERAL DRAWINGS
ARCHITECTURAL FINISH
-

SHEET IDENTIFICATION
X-00



CHAIN - LINK SECURITY FENCE DETAIL

NTS



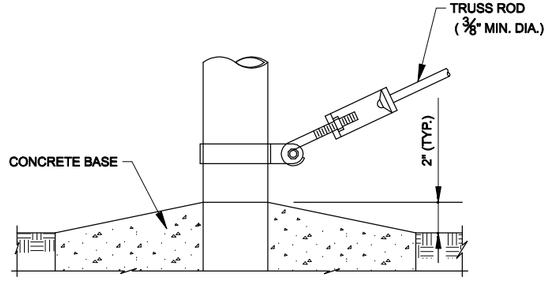
LINE POST CORNER POST

NOTES:

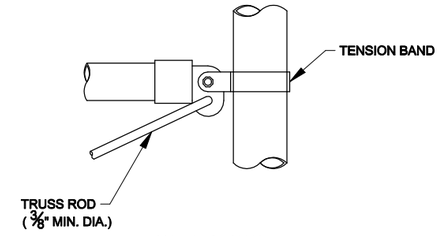
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.
3. FENCE FRAMEWORK AND ACCESSORIES SHALL COMPLY WITH CLFMI "INDUSTRIAL STEEL GUIDE FOR FENCE RAILS, POSTS, GATES AND ACCESSORIES", AND SHALL BE AS SPECIFIED BELOW AND CONFORM TO THE LATEST REQUIREMENTS OF ASTM F 626.

EXTENSION ARM DETAILS

NTS



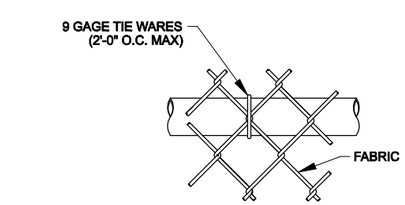
TRUSS ROD AND BAND



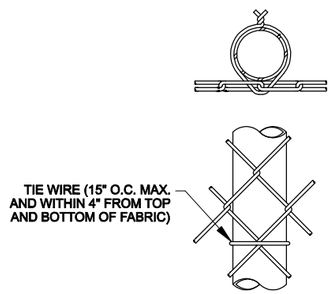
ROUND POST

FENCE NOTES

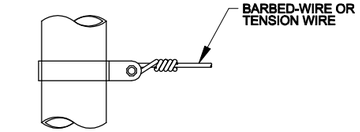
1. FENCE HEIGHT = 8'-0" W/ BARBED WIRES.
2. DOUBLE SWING GATE = 8'-0" HIGH W/ BARBED WIRES.
3. FENCE FABRIC SHALL BE 2" HOT-DIP GALVANIZED STEEL MESH, HEIGHT OF 96", 34-1/2 DIAMOND COUNT WITH TWISTED EDGES. FABRIC SHALL COMPLY WITH THE CHAIN LINK FENCE MANUFACTURER'S INSTITUTE (CLFMI) "STANDARD GUIDE FOR METALLIC-COATED STEEL CHAIN LINK FENCE AND FABRIC". TOP SELVAGE SHALL BE TWISTED AND BOTTOM SELVAGE SHALL BE KNUCKLED.
4. FENCE FABRIC TO BE CONNECTED TO POST END, CORNER AND GATE WITH 1/4" X 3/4" GALVANIZED STEEL TENSION BARS AND #14 GAGE (MIN.) X 1 GALVANIZED STEEL TENSION BANDS SPACED 15" O.C. SPACED 15" O.C. (MAX.). TOP AND BOTTOM EDGE TO BE TIED (MAX) TO THE CONTINUOUS #6 GAGE TENSION WIRE WITH #9 GAGE ALUMINUM HOG RINGS SPACED 24" O.C. (MAX.). FABRIC TO BE ATTACHED TO LINE POST WITH #9 GAGE ALUMINUM TIE WIRES SPACED 15" O.C. (MAX.).
5. STEEL FENCE POST:
   A. LINE POSTS: TYPE I, ROUND 2.375 INCH O.D. (3.65 LBS. PER FT.) HOT-DIP GALVANIZED INSIDE AND OUT, SPACED AS SHOWN ON DRAWINGS.
   B. END CORNER OR PULL POSTS: TYPE I, ROUND 2.375 INCH O.D. (3.65 LBS. PER FT.) HOT-DIP GALVANIZED INSIDE AND OUT. GATE POSTS SHALL HAVE DOME STYLE POST CAPS.
   C. TOP RAILS: 1.625 INCH O.D. (2.27 LBS. PER FT.) HOT-DIP GALVANIZED INSIDE AND OUT.
6. BRACING FOR END, CORNER AND GATE POSTS SHALL BE 1 1/4" STEEL PIPE (SCH. 40) (1.66" O.D.) HOT-DIP GALVANIZED INSIDE AND OUT. BRACING PIPE TO EXTEND FROM END, CORNER AND GATE POSTS TO FIRST LINE POST. PROVIDE 3/8" Ø GALVANIZED ADJUSTABLE TRUSS ROD FROM THE END OF THE BRACE AND FASTENED TO THE END OF THE BRACE AND FASTENED TO EACH POST WITH GALVANIZED PRESSED STEEL FITTINGS.
7. BOTTOM TENSION WIRE SHALL BE CONTINUOUS #6 GAGE GALVANIZED COIL SPRING TENSION WIRE.
8. BARBED WIRE SHALL BE THREE STRANDS, FOUR POINT PATTERN, EACH STRAND COMPOSED OF TWO TWISTED 12 1/2 GAGE STEEL LINE WIRES, GALVANIZED AFTER TWISTING.
9. BARBED WIRE ARMS SHALL BE PRESSED STEEL OR MALLEABLE IRON, AND HOT-DIP GALVANIZED. EACH ARM SHALL CARRY THREE (3) BARBED WIRES SECURELY FASTENED. ARMS SHALL BE SECURELY FASTENED TO ALL POST AND SET AT 45^ ANGLE OUTSIDE OF THE FENCE LINE.
10. GATE POST SHALL BE EXTENDED TO RECEIVE THREE (3) STRANDS OF BARBED WIRE, FASTENED BY TENSION BANDS AND SHALL BE CAPPED.
11. ALL FITTINGS SHALL BE MALLEABLE IRON OR HEAVY PRESSED STEEL CONSTRUCTION AND HOT-DIP GALVANIZED.
12. GATES SHALL HAVE WELDED FRAMES USING TYPE I, ROUND 2.375 INCH O.D. (3.65 LBS. PER FT.)1 HOT-DIP GALVANIZED INSIDE AND OUT (AFTER FABRICATION).
    PROVIDE HORIZ. BRACE USING 1 1/2" STEEL PIPE (SCH. 40) (1.90"O.D.)
    HOT-DIP GALVANIZED INSIDE AND OUT AND SPACED MIDWAY BETWEEN THE TOP RAIL AND BOTTOM RAIL. VERTICAL MEMBERS SHALL BE EXTENDED TO RECEIVE THREE (3) STRANDS OF BARBED WIRE AND SHALL BE CAPPED.
13. GATE FABRIC SHALL BE THE SAME AS FENCE FABRIC. PROVIDE TENSION BARS AND TENSION BANDS. ALSO #9 GAGE ALUMINUM TIE WIRES AT TOP AND BOTTOM EDGES, SPACED 12" O.C. (MAX.).
14. ALL GATES SHALL BE FURNISHED COMPLETE WITH HEAVY DUTY HINGES CAPABLE OF SWING 90° IN AND OUT, CENTER GATE STOP AND DOUBLE GATE LATCH WITH PROVISIONS FOR A PADLOCK AND A DROP ROD OR PLUNGER BAR ARRANGED TO ENGAGE THE GATE STOP. LOCKING DEVICES SHALL BE CONSTRUCTED SO THAT THE CENTER DROP ROD OR PLUNGER BAR CANNOT BE RAISED WHEN THE GATE IS LOCKED.
15. CONTRACTOR SHALL NOT BEGIN INSTALLATION AND ERECTION BEFORE FINAL GRADING IS COMPLETED, UNLESS OTHERWISE APPROVED BY THE CONTRACTING OFFICER.
16. CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED SECURITY FENCE LAYOUT SHOWING ALL GATE HARDWARE.



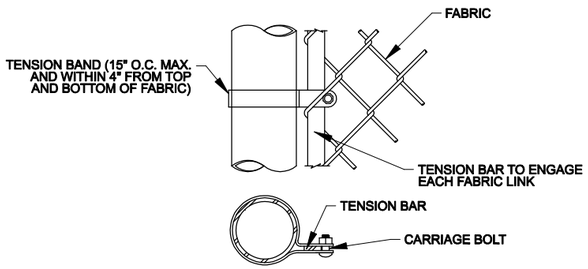
TOP OR BRACE RAIL ATTACHMENT



ROUND POST
LINE POST ATTACHMENTS



TENSION BAND DETAIL



END OR GATE POST DETAIL

FASTENING DETAILS

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

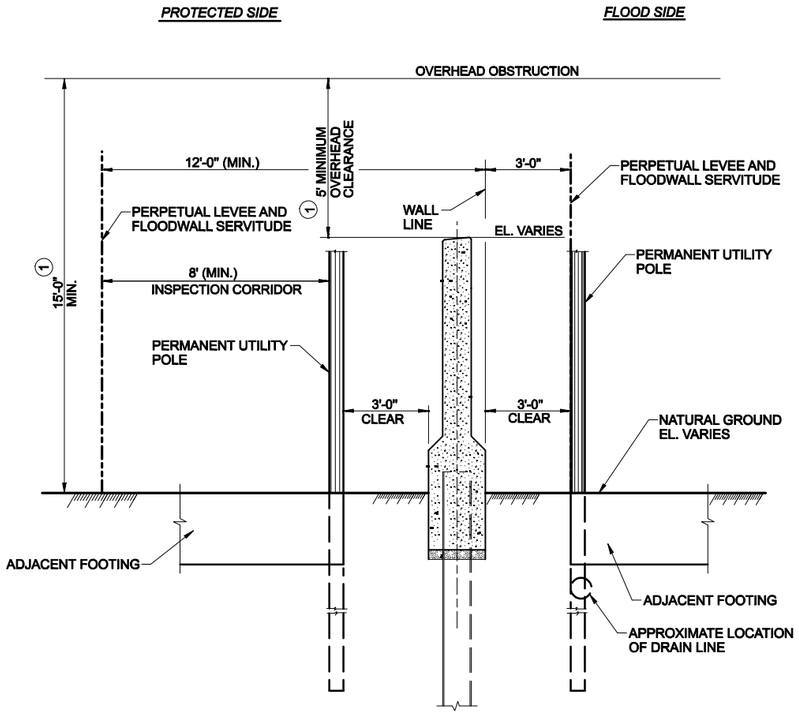
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DRWN BY:
CHK'D BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE:
PLOT DATE:
FILE NUMBER: A&E-TYPICALS
LEVEL:
SIZE: ANSI D
FILE NAME: A&E-TYPXS.DGN

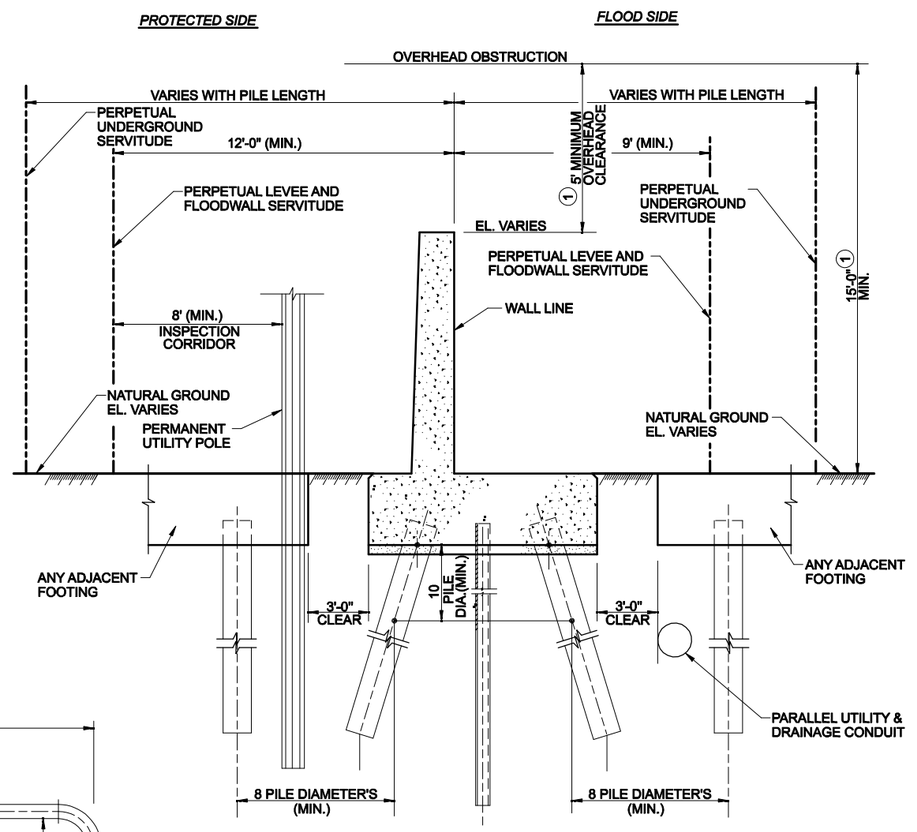
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
GENERAL DRAWINGS
FENCING DETAILS
-

SHEET IDENTIFICATION
X-00



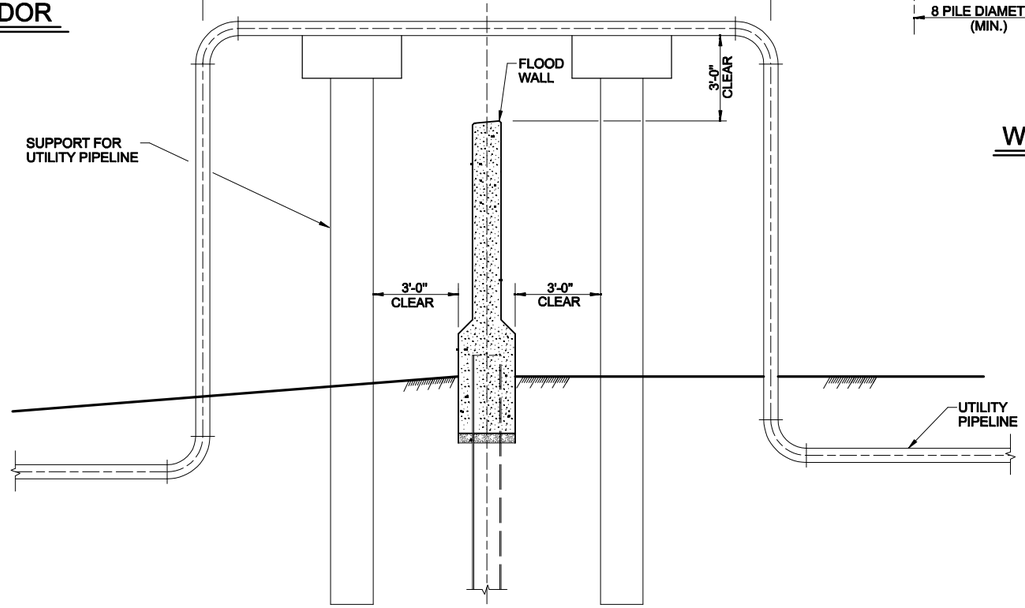
I-WALL CLEARANCES WITH INSPECTION CORRIDOR

SCALE: 3/8" = 1'- 0"



T-WALL CLEARANCES WITH INSPECTION CORRIDOR

NTS



I-WALL CLEARANCES WITHOUT INSPECTION CORRIDOR

SCALE: 3/8" = 1'- 0"

1. USE THE GREATER OF THE 5' CLEARANCE FROM THE TOP OF THE WALL OR THE 15' FROM THE NATURAL GROUND SURFACE. FOR ELECTRIC LINES CLEARANCE SHALL ALSO COMPLY WITH EM 385-1-1.
2. ALL POLES AND SUBSURFACE FOOTINGS PLACED WITHIN THE PERPETUAL UNDERGROUND SERVITUDE SHALL BE COORDINATED WITH A COE REPRESENTATIVE DURING DESIGN AND CONSTRUCTION SO AS TO AVOID INTERFERING WITH THE EXISTING T-WALL PILES.
3. ALL OBSTRUCTIONS OTHER THAN POLES BUILT ABOVE GROUND AND WITHIN THE EXISTING PERPETUAL LEVEE AND FLOODWALL STRUCTURES SHALL BE MADE REMOVABLE. THE CONSTRUCTION OF SUCH OBSTRUCTIONS REQUIRES A PERMIT APPROVAL ISSUED BY THE LOCAL LEVEE DISTRICT. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO REMOVE THE OBSTRUCTION AT THE REQUEST OF THE LOCAL LEVEE DISTRICT.
4. UTILITIES, BUILDINGS, ETC. ARE PROHIBITED FROM BEING ATTACHED TO ANY PART OF A FLOODWALL.
5. UTILITIES ARE PROHIBITED FROM PASSING THROUGH I-WALLS. PENETRATIONS THROUGH T-WALLS ARE ACCEPTABLE PROVIDED A USACE APPROVED SEALED SLEEVE IS USED. TYPICAL SLEEVE DETAILS ARE SHOWN ON ANOTHER DWG. ALL PENETRATIONS SHALL BE APPROVED IN ACCORDANCE WITH THE LOCAL LEVEE DISTRICT PERMIT PROCESS.

SCALE: 3/8"=1'
0 1' 3' 6'

US Army Corps of Engineers
NEW ORLEANS DISTRICT

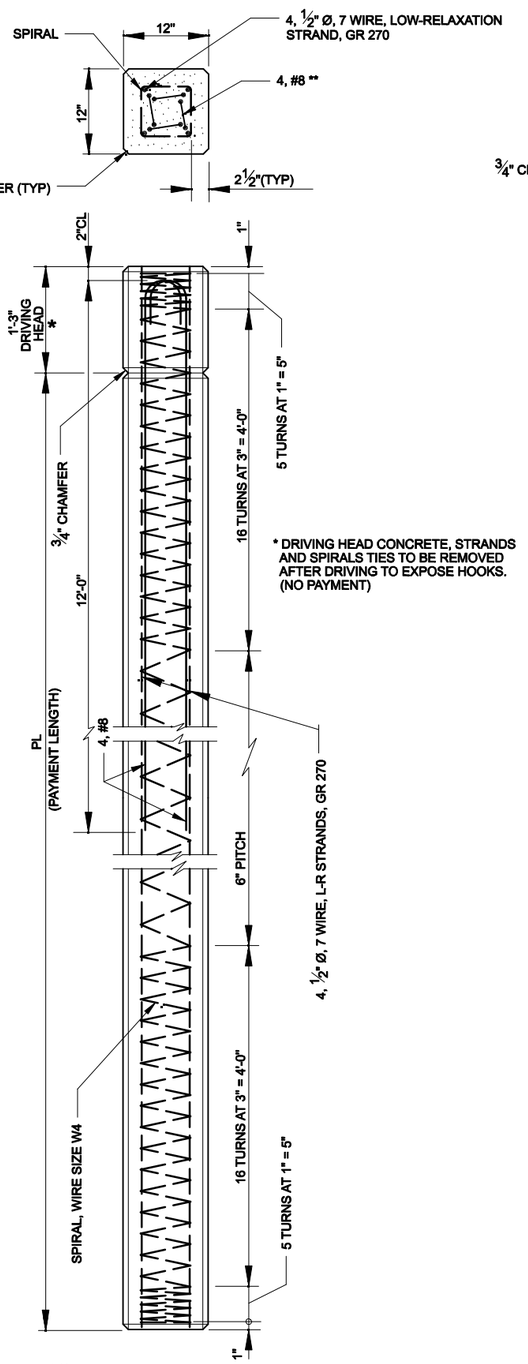
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYP08.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
GENERAL DRAWINGS
PERPETUAL FLOODWALL SERVITUDE
~

SHEET IDENTIFICATION
X-00

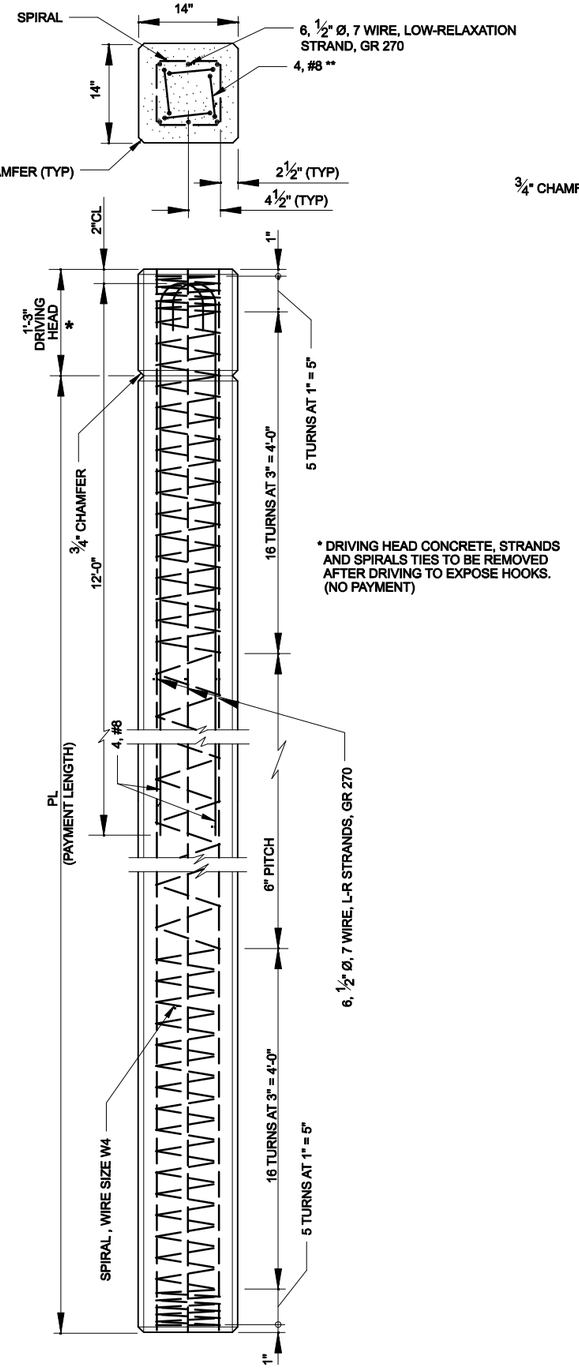


* DRIVING HEAD CONCRETE, STRANDS AND SPIRALS TIES TO BE REMOVED AFTER DRIVING TO EXPOSE HOOKS. (NO PAYMENT)

NOTE:
GRIND PRESTRESSED STRANDS FLUSH WITH PILE HEAD AND PILE TIP.

12" X 12" PRESTRESSED PRECAST CONCRETE PILE

NTS



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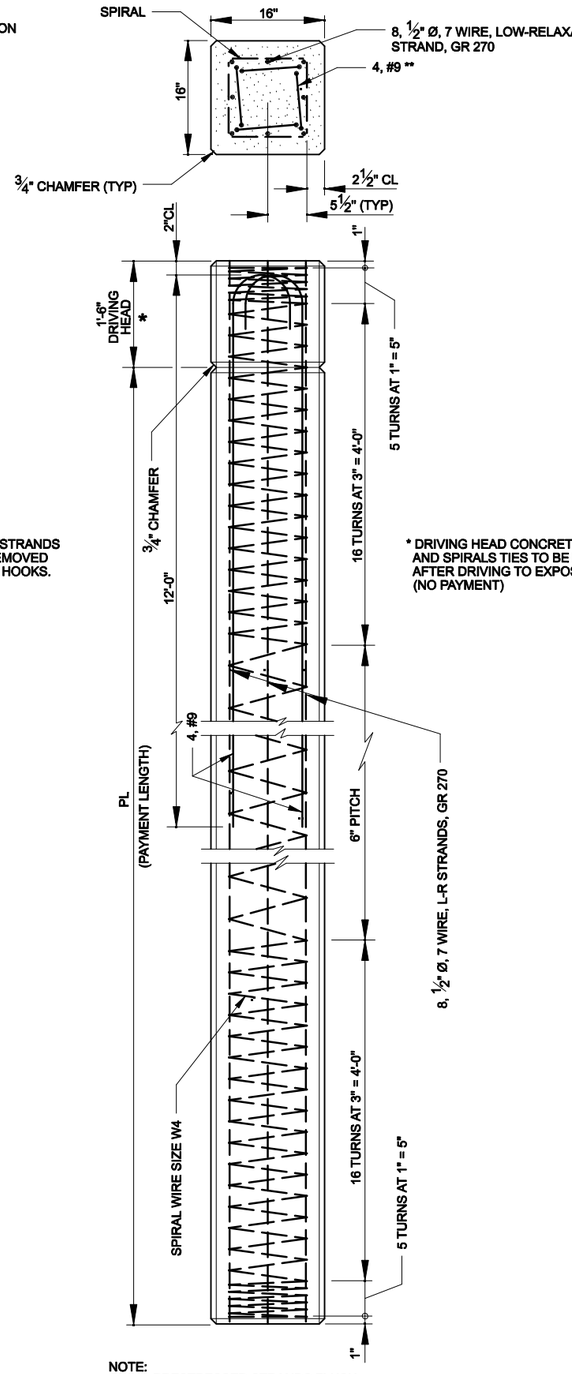
NOTE:
GRIND PRESTRESSED STRANDS FLUSH WITH PILE HEAD AND PILE TIP.

14" X 14" PRESTRESSED PRECAST CONCRETE PILE

NTS



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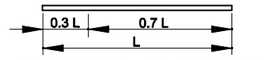
NOTE:
GRIND PRESTRESSED STRANDS FLUSH WITH PILE HEAD AND PILE TIP.

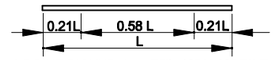
16" X 16" PRESTRESSED PRECAST CONCRETE PILE

NTS

** STANDARD 180° HOOK ON REINFORCING FOR ALL PILES. TO ALLOW FOR PROPER PLACEMENT OF CONCRETE, HOOKS SHOULD BE PLACED SO THAT BEND OF HOOK IS APPROXIMATELY PARALLEL TO ADJACENT FACE OF PILE AS SHOWN.



1 POINT PICKUP (L ≤ 53') 12" X 12" PILE
1 POINT PICKUP (L ≤ 59') 14" X 14" PILE
1 POINT PICKUP (L ≤ 61') 16" X 16" PILE



2 POINT PICKUP (L ≤ 75') 12" X 12" PILE
2 POINT PICKUP (L ≤ 84') 14" X 14" PILE
2 POINT PICKUP (L ≤ 87') 16" X 16" PILE

NOTES:
1. PICKUP POINTS TO BE PLAINLY MARKED ON PILES
2. PICKUP POINTS SHOWN FOR 5,000 PSI CONCRETE ONLY

PILE SCHEDULE					PAYMENT LENGTH	
W/L STATIONS	PILE SIZE	NUMBER OF PILES	PILE BATTER	PILE TIP ELEV.	FLOOD SIDE	PROTECT SIDE

EXACT LENGTHS OF PRESTRESSED CONCRETE PILING SHALL BE DETERMINED AFTER PILE TEST ARE CONDUCTED. LENGTHS SHOWN ARE FOR ESTIMATING PURPOSES ONLY.

NOTES
1. ONLY 5,000 OR 6,000 PSI CONCRETE SHALL BE USED FOR PRESTRESSED CONCRETE PILES.

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

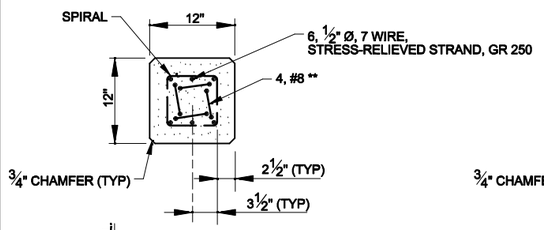
MARK	DESCRIPTION	DATE	APPR.

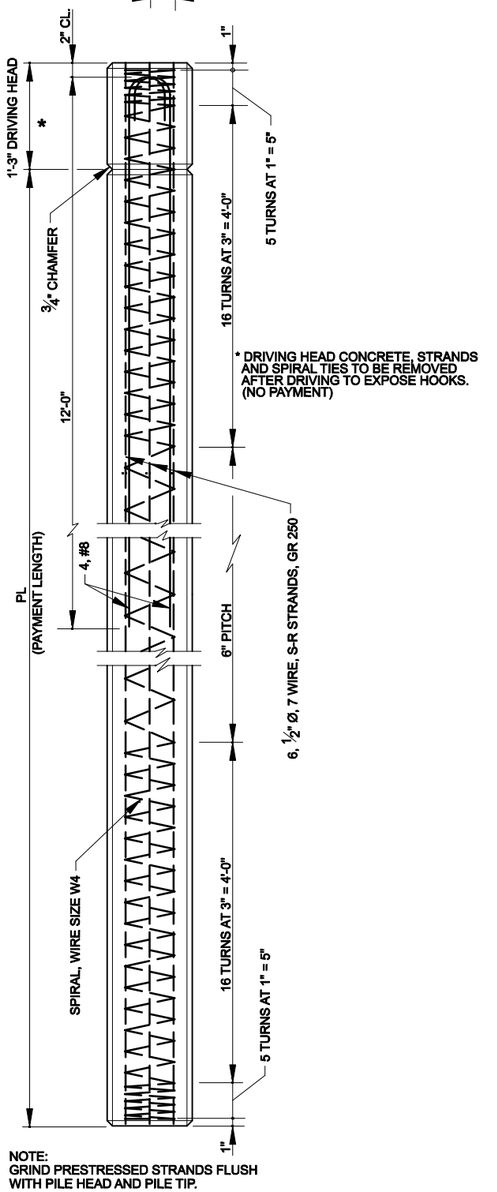
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
PLOT SCALE: PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPHOON
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PILING DETAILS
LOW-LAXATION STRANDS
-

SHEET IDENTIFICATION
X-00



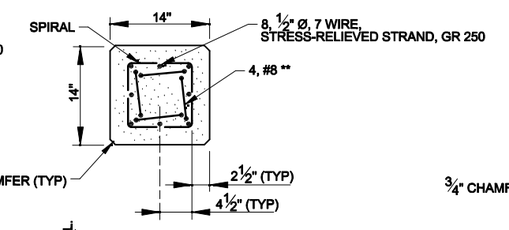


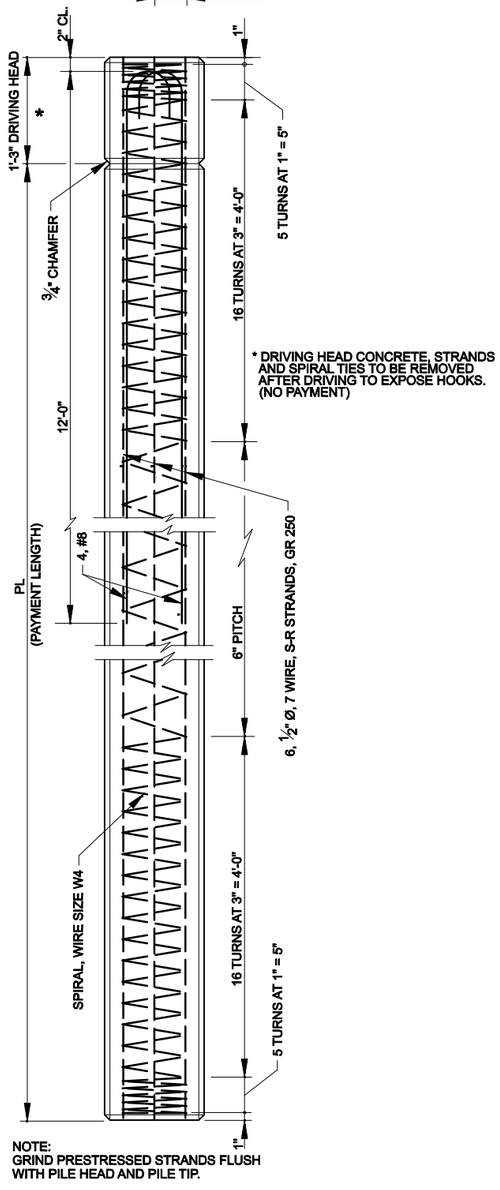
* DRIVING HEAD CONCRETE, STRANDS AND SPIRAL TIES TO BE REMOVED AFTER DRIVING TO EXPOSE HOOKS. (NO PAYMENT)

NOTE:
GRIND PRESTRESSED STRANDS FLUSH WITH PILE HEAD AND PILE TIP.

12" X 12" PRESTRESSED PRE-CAST CONCRETE PILE

NTS





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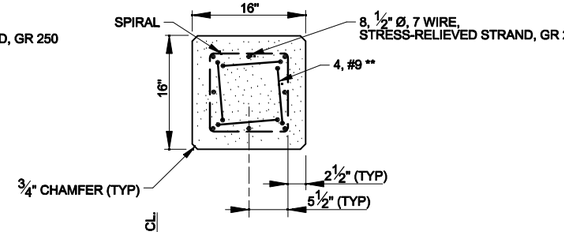
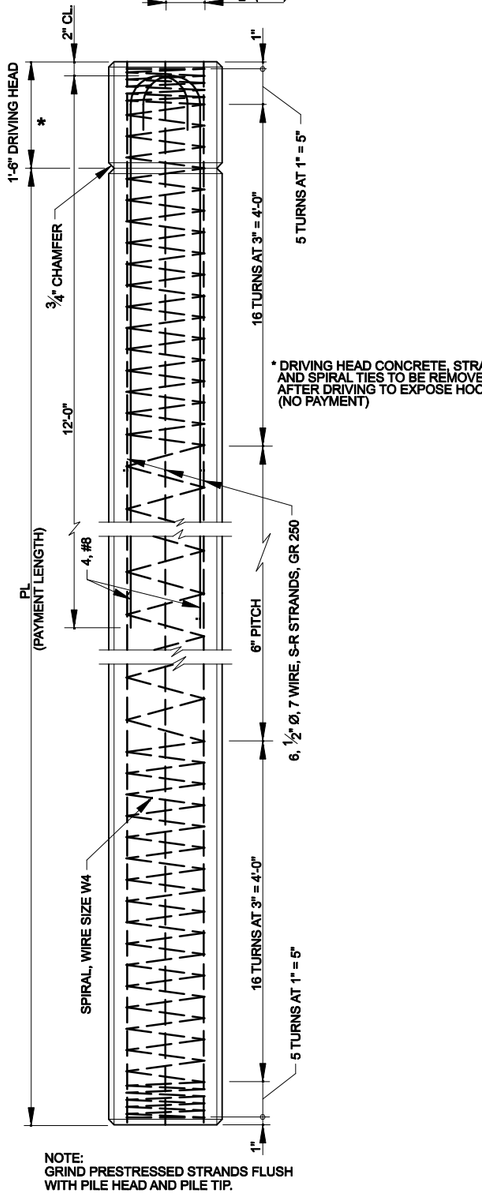
NOTE:
GRIND PRESTRESSED STRANDS FLUSH WITH PILE HEAD AND PILE TIP.

14" X 14" PRESTRESSED PRE-CAST CONCRETE PILE

NTS





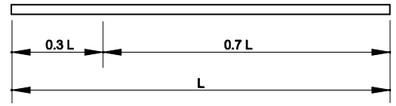
* DRIVING HEAD CONCRETE, STRANDS AND SPIRAL TIES TO BE REMOVED AFTER DRIVING TO EXPOSE HOOKS. (NO PAYMENT)

NOTE:
GRIND PRESTRESSED STRANDS FLUSH WITH PILE HEAD AND PILE TIP.

16" X 16" PRESTRESSED PRE CAST CONCRETE PILE

NTS

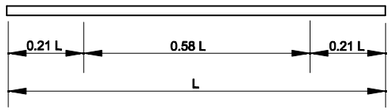
** STANDARD 180° HOOK ON REINFORCING FOR ALL PILES. TO ALLOW FOR PROPER PLACEMENT OF CONCRETE, HOOKS SHOULD BE PLACED SO THAT BEND OF HOOK IS APPROXIMATELY PARALLEL TO ADJACENT FACE OF PILE AS SHOWN.



1 POINT PICKUP (L ≤ 54') 12" X 12" PILE

1 POINT PICKUP (L ≤ 58') 14" X 14" PILE

1 POINT PICKUP (L ≤ 60') 16" X 16" PILE



2 POINT PICKUP (L ≤ 77') 12" X 12" PILE

2 POINT PICKUP (L ≤ 83') 14" X 14" PILE

2 POINT PICKUP (L ≤ 86') 16" X 16" PILE

NOTES:

1. PICKUP POINTS TO BE PLAINLY MARKED ON PILES
2. PICKUP POINTS SHOWN FOR 5,000 PSI CONCRETE ONLY

PILE SCHEDULE						
W/L STATIONS	PILE SIZE	NUMBER OF PILES	PILE BATTER	PILE TIP ELEVATION	PAYMENT LENGTH	
					FLOOD SIDE	PROTECTED SIDE

NOTE:

EXACT LENGTHS OF PRESTRESSED CONCRETE SHALL BE DETERMINED AFTER PILE TEST ARE CONDUCTED. LENGTHS SHOWN ARE FOR ESTIMATING PURPOSES ONLY.

NOTES

1. ONLY 5,000 OR 6,000 PSI CONCRETE SHALL BE USED FOR PRESTRESSED CONCRETE PILES.

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

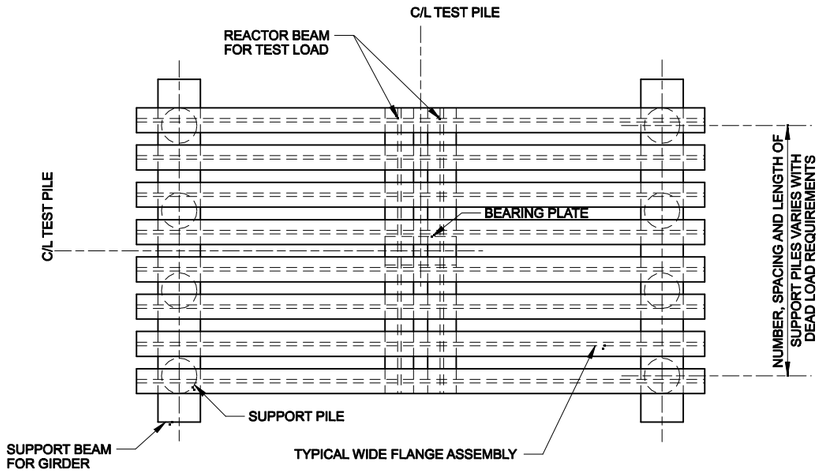
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2006
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE:
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP11.DGN

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
PILING DETAILS
STRESS-RELIEVED STRANDS
~

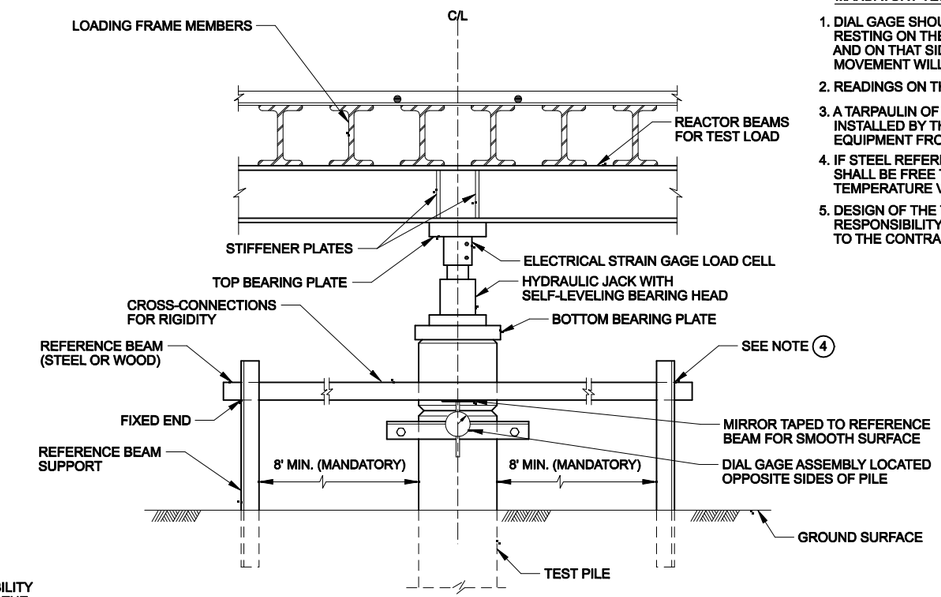
SHEET IDENTIFICATION
X-00



PLAN

MANDATORY LOADING FRAME NOTES:

1. LOADING FRAME SHOWN WITHOUT DEAD LOAD.
2. CONTRACTOR TO PROVIDE PILE LAYOUT FOR EACH PARTICULAR DEAD LOAD TEST.
3. SECURE DEAD WEIGHT LOAD TO LOADING FRAME WITH CHAINS AND BINDERS.
4. DESIGN OF THE LOADING FRAME IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.



SECTION (B)

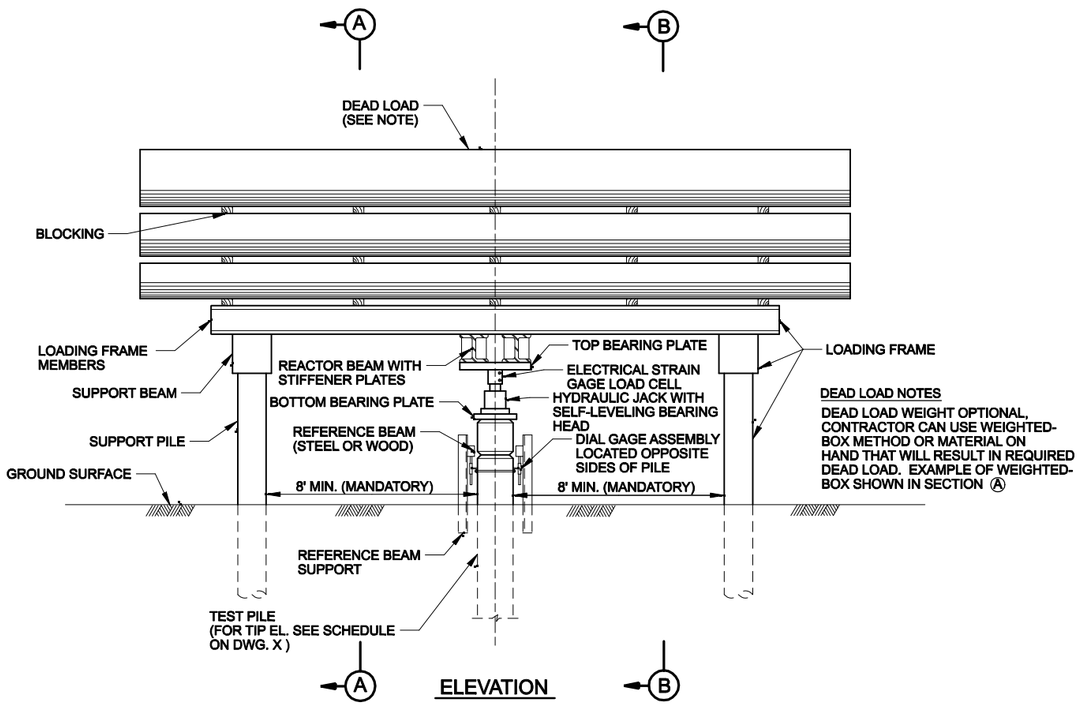
TEST APPARATUS

MANDATORY TEST APPARATUS NOTES:

1. DIAL GAGE SHOULD BE ATTACHED TO THE PILE WITH THE STEM RESTING ON THE REFERENCE BEAM IN THE COMPRESSED POSITION AND ON THAT SIDE OF THE REFERENCE BEAM WHERE THE MOVEMENT WILL BE AWAY FROM THE BEAM.
2. READINGS ON THE OPPOSITE SIDES OF THE PILE ARE NECESSARY.
3. A TARPAULIN OF MINIMUM DIMENSION 12' X 12' SHALL BE INSTALLED BY THE CONTRACTOR TO PROTECT THE MEASURING EQUIPMENT FROM THE DIRECT EFFECTS OF THE WEATHER.
4. IF STEEL REFERENCE BEAMS ARE USED, ONE END OF EACH BEAM SHALL BE FREE TO MOVE AS THE LENGTH OF THE BEAMS CHANGE WITH TEMPERATURE VARIATIONS.
5. DESIGN OF THE TEST APPARATUS PILE SET-UP IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.

NOTE:

THE CONTRACTOR HAS THE OPTION OF USING REACTION PILES IN LIEU OF THE LOADING FRAME. (SEE SPECIFICATIONS)

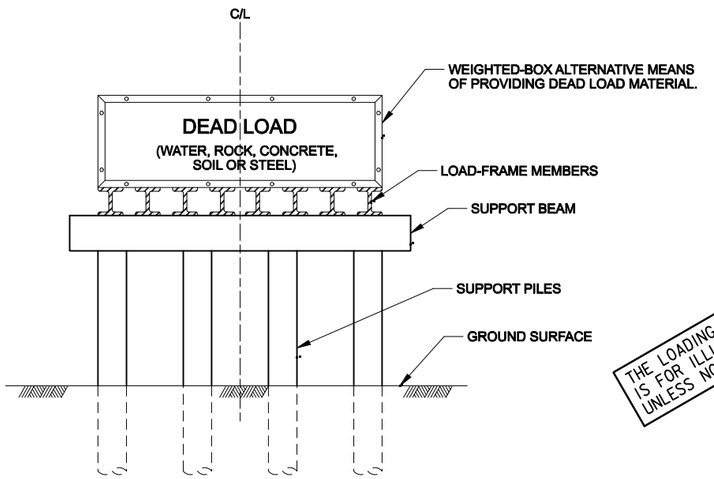


ELEVATION

LOADING FRAME

DEAD LOAD NOTES

DEAD LOAD WEIGHT OPTIONAL, CONTRACTOR CAN USE WEIGHTED-BOX METHOD OR MATERIAL ON HAND THAT WILL RESULT IN REQUIRED DEAD LOAD. EXAMPLE OF WEIGHTED-BOX SHOWN IN SECTION (A)



SECTION (A)

THE LOADING FRAME AND TEST APPARATUS IS FOR ILLUSTRATION PURPOSES ONLY, UNLESS NOTED MANDATORY.

US Army Corps of Engineers
NEW ORLEANS DISTRICT

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PLOT DATE:
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FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYP12.DGN

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NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
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A/E TYPICAL DRAWINGS
~
PILING DETAILS
COMPRESSION PILE TEST
~

SHEET IDENTIFICATION
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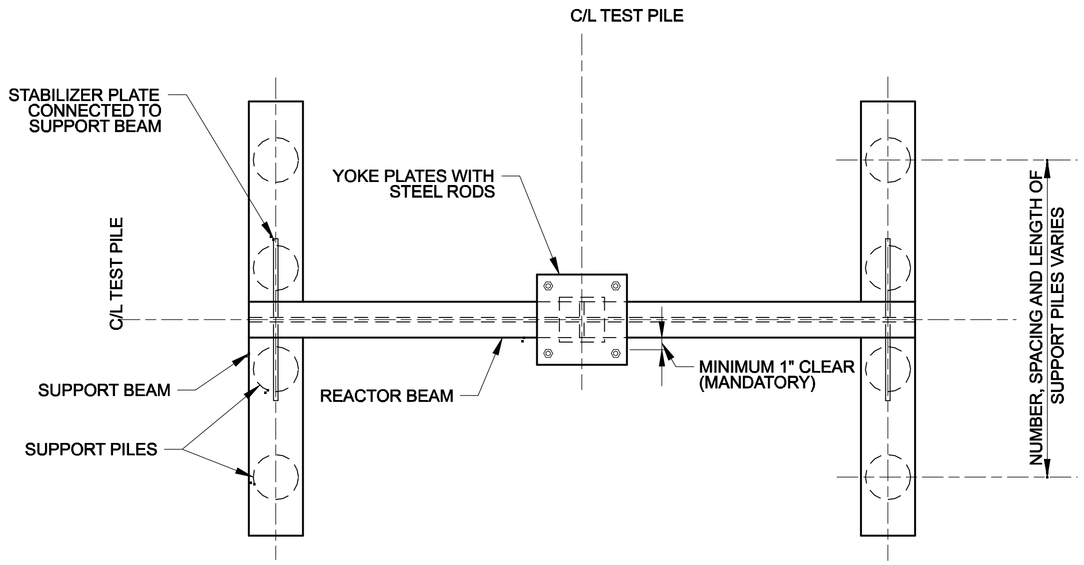


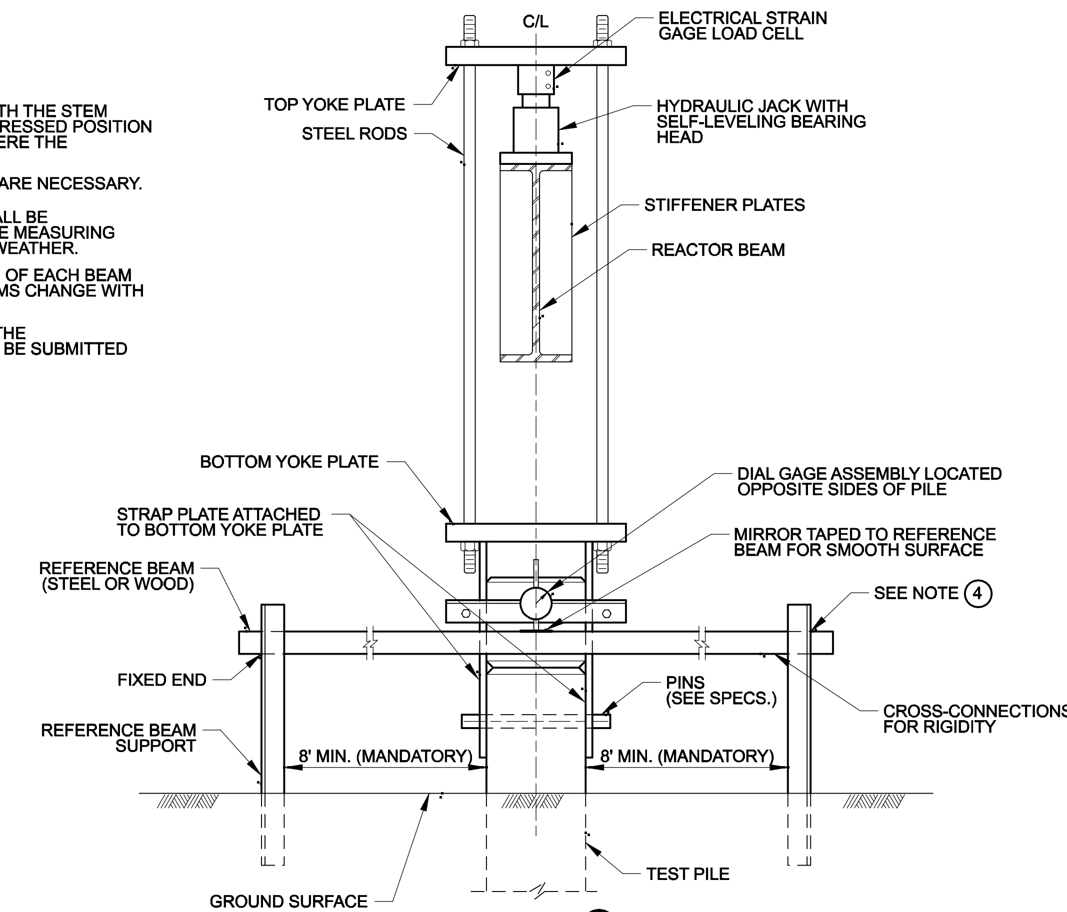
PLAN

MANDATORY LOADING FRAME NOTE:

1. DESIGN OF THE LOADING FRAME IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.

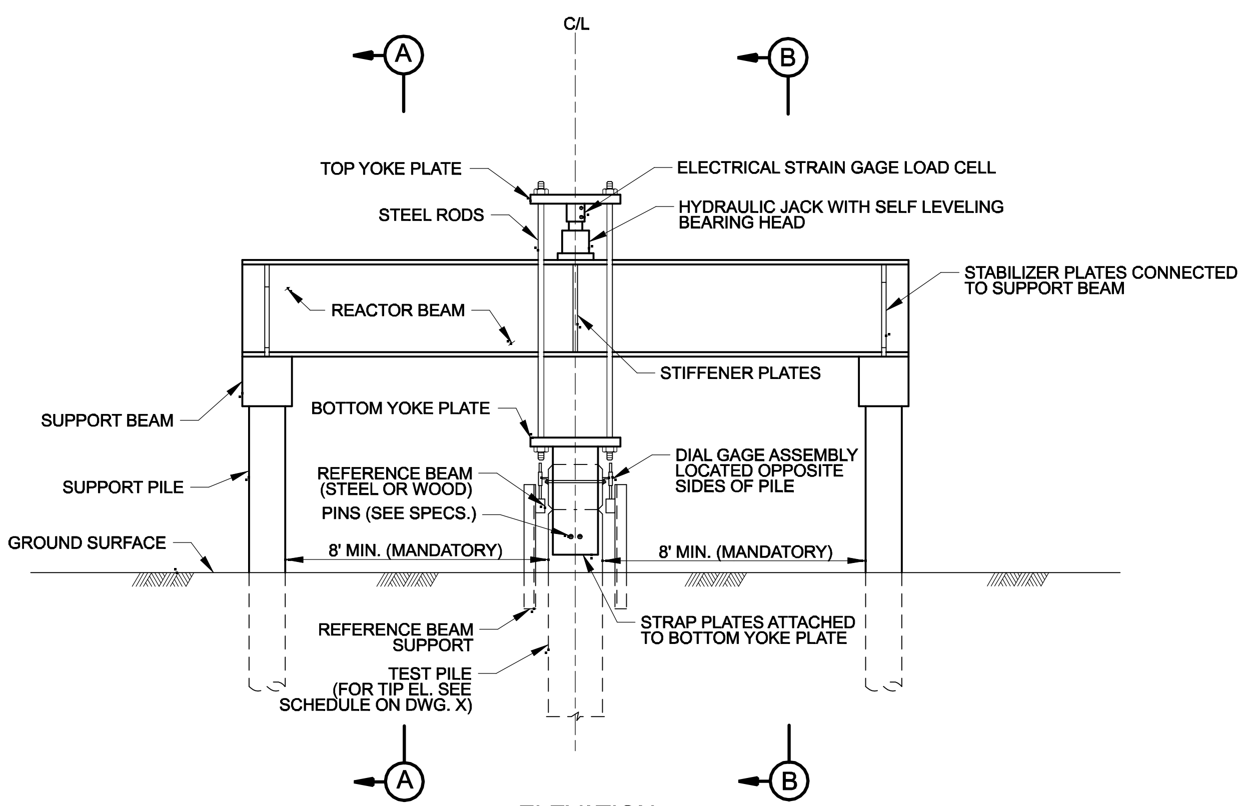
MANDATORY TEST APPARATUS NOTES:

1. DIAL GAGE SHOULD BE ATTACHED TO THE PILE WITH THE STEM RESTING ON THE REFERENCE BEAM IN THE COMPRESSED POSITION AND ON THAT SIDE OF THE REFERENCE BEAM WHERE THE MOVEMENT WILL BE AWAY FROM THE BEAM.
2. READINGS ON THE OPPOSITE SIDES OF THE PILE ARE NECESSARY.
3. A TARPAULIN OF MINIMUM DIMENSION 12' X 12' SHALL BE INSTALLED BY THE CONTRACTOR TO PROTECT THE MEASURING EQUIPMENT FROM THE DIRECT EFFECTS OF THE WEATHER.
4. IF STEEL REFERENCE BEAMS ARE USED, ONE END OF EACH BEAM SHALL BE FREE TO MOVE AS THE LENGTH OF BEAMS CHANGE WITH TEMPERATURE VARIATIONS.
5. DESIGN OF THE TEST APPARATUS PILE SET-UP IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.



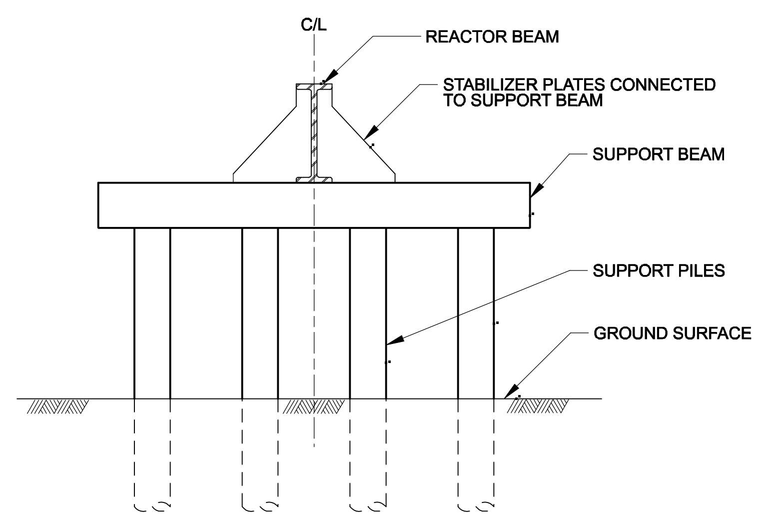
SECTION B

TEST APPARATUS



ELEVATION

LOADING FRAME



SECTION A

THE LOADING FRAME AND TEST APPARATUS IS FOR ILLUSTRATION PURPOSES ONLY, UNLESS NOTED MANDATORY.

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SUBMITTED BY:
CONTRACT NO.:
PLOT SCALE: ¾" = 1'
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP13.DGN

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A/E TYPICAL DRAWINGS
~
PILING DETAILS
TENSION PILE TEST
~

SHEET IDENTIFICATION
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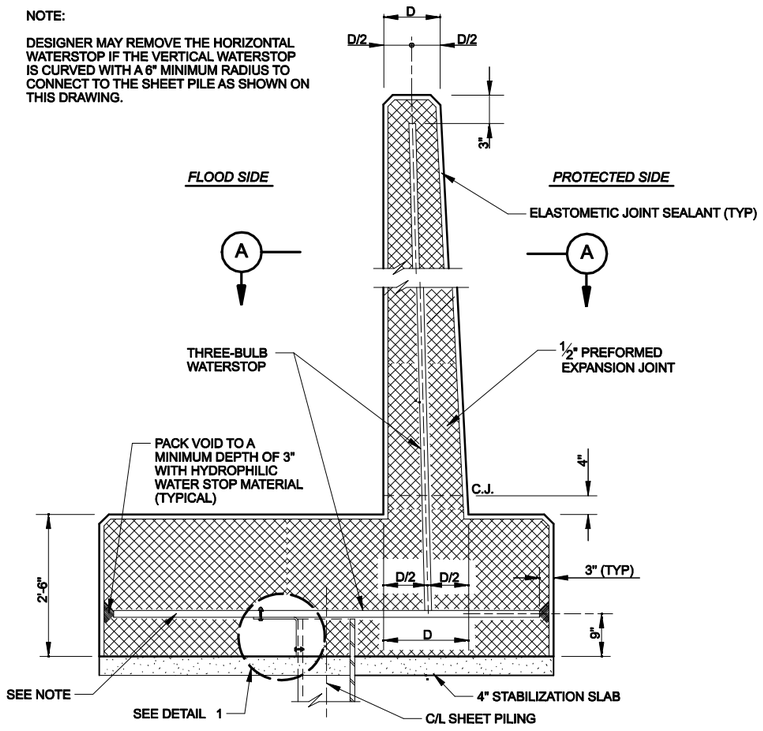
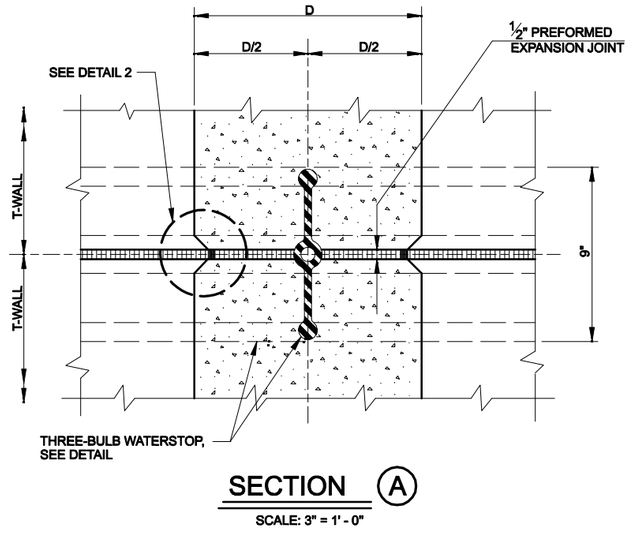
NOTE:

DESIGNER MAY REMOVE THE HORIZONTAL WATERSTOP IF THE VERTICAL WATERSTOP IS CURVED WITH A 6" MINIMUM RADIUS TO CONNECT TO THE SHEET PILE AS SHOWN ON THIS DRAWING.



TYPICAL T-WALL JOINT

SCALE: ¾" = 1'- 0"



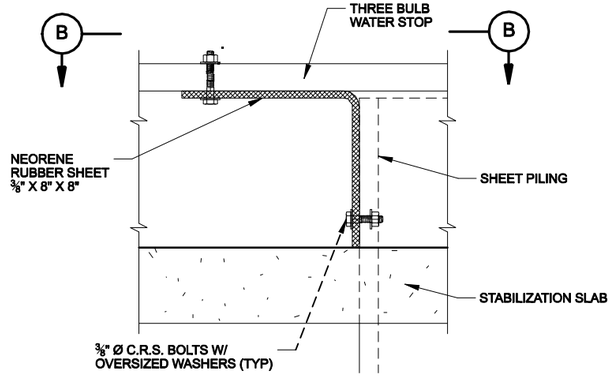
SECTION (A)

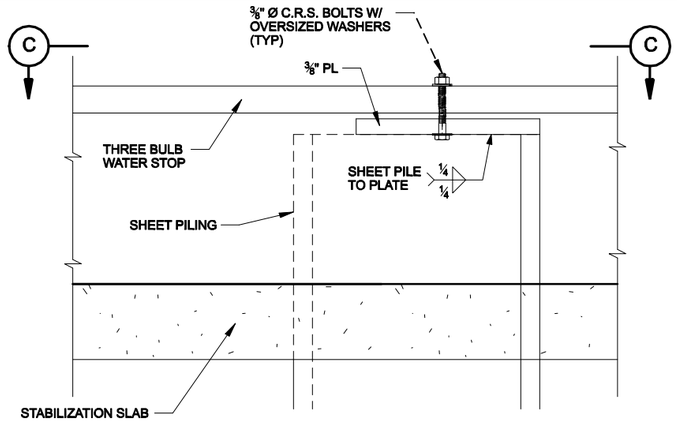
SCALE: 3" = 1' - 0"

SCALE: 3/4"=1' 0 1' 2' 3'

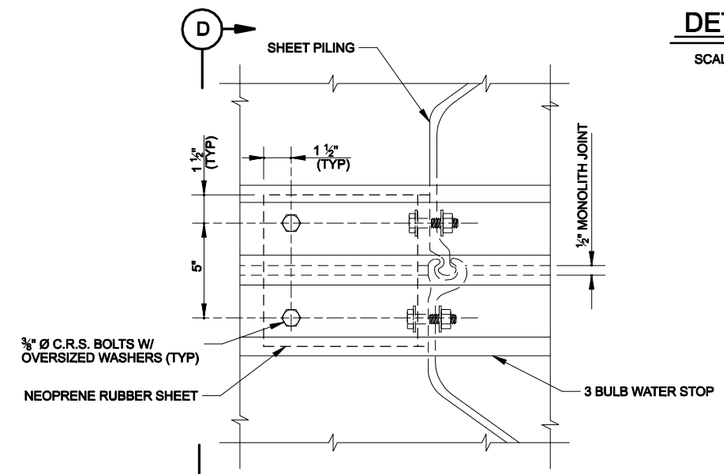
SCALE: 1"=1" 0 1" 2"

SCALE: 3"=1' 0 3" 6" 9" 12"





SHEETPILE INTERLOCK ALIGNED WITH THE WALL JOINT



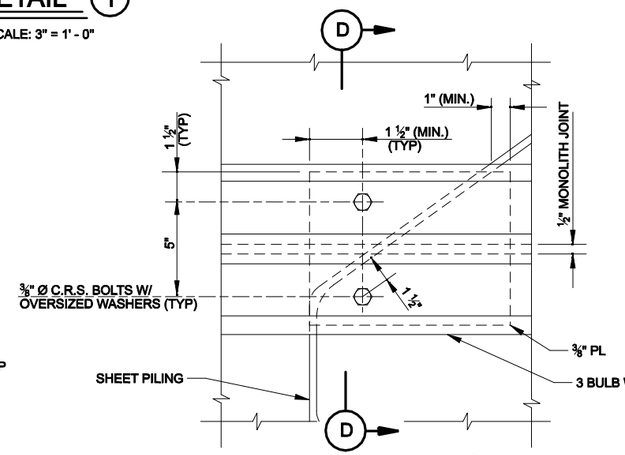
SECTION (B)

SCALE: 3" = 1' - 0"

DETAIL (1)

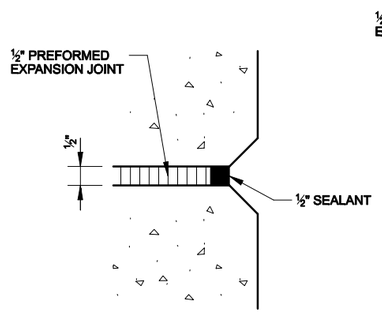
SCALE: 3" = 1' - 0"

SHEETPILE INTERLOCK UNALIGNED WITH THE WALL JOINT

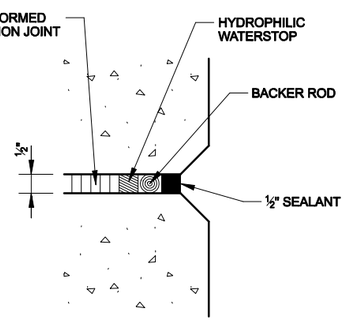


SECTION (C)

SCALE: 3" = 1' - 0"



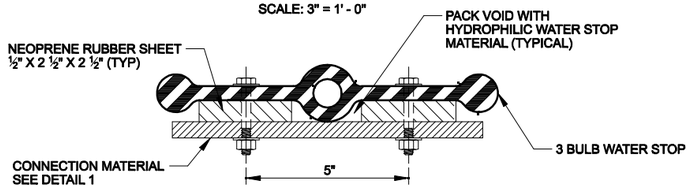
DRY CONDITION



WET CONDITION

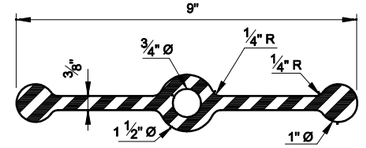
DETAIL (2)

SCALE: 3" = 1' - 0"



SECTION (D)

N.T.S.



THREE-BULB WATERSTOP

SCALE: 1" = 1' - 0"

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PLOT SCALE: 1" = 1" | PLOT DATE:
SIZE: ANSI D
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: AE170C43
FILE NAME: AE-TYP2DGN

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NEW ORLEANS, LOUISIANA

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A/E TYPICAL DRAWINGS

WALL JOINTS
WALL JOINTS & POSITIVE CUT-OFF

SHEET IDENTIFICATION
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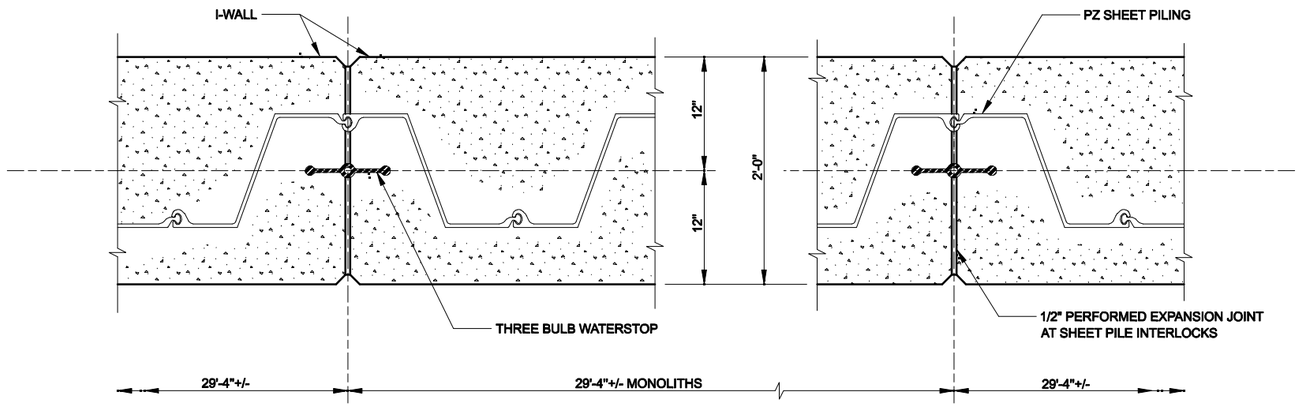
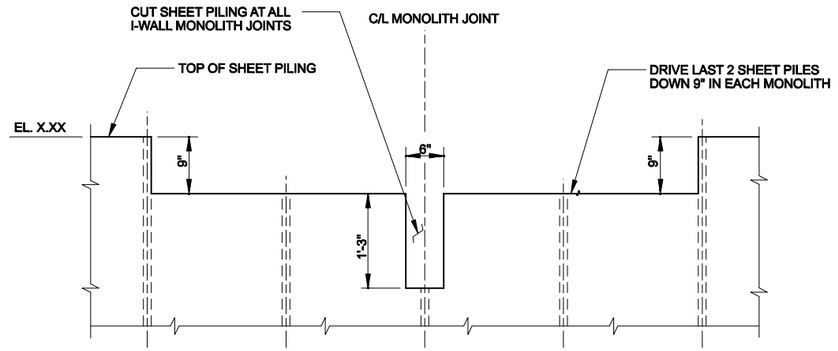


TYPICAL I-WALL MONOLITH SHEET PILE INTERLOCKS

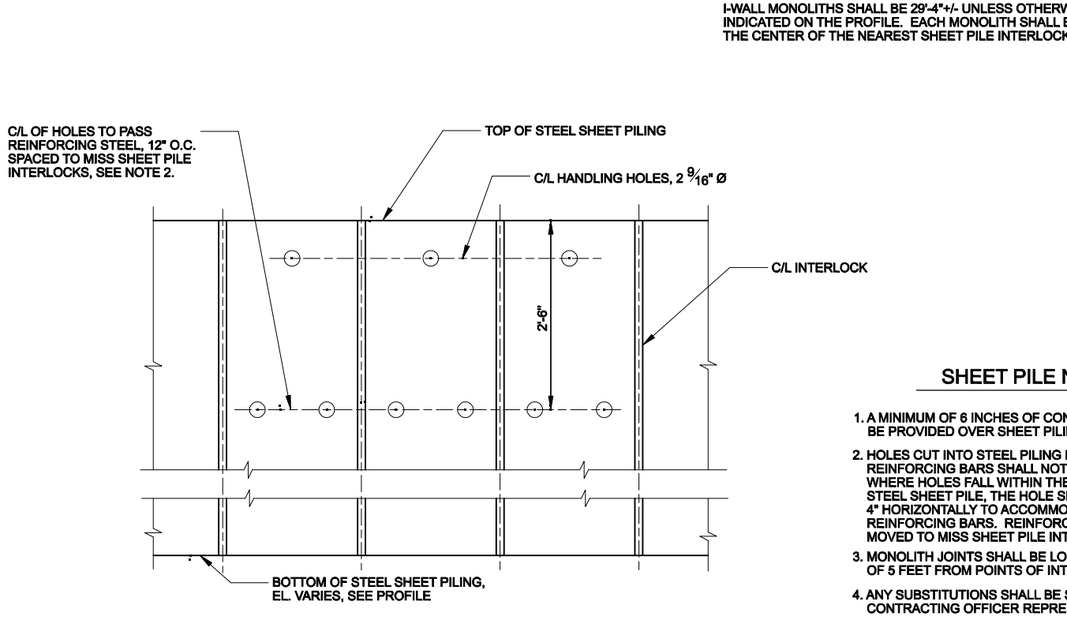
SCALE: 1 ½" = 1' - 0"

NOTE:
I-WALL MONOLITHS SHALL BE 29'-4"+/- UNLESS OTHERWISE INDICATED ON THE PROFILE. EACH MONOLITH SHALL END AT THE CENTER OF THE NEAREST SHEET PILE INTERLOCK.



SHEET PILING DETAILS
I-WALL MONOLITH JOINTS

SCALE: 1" = 1'- 0"

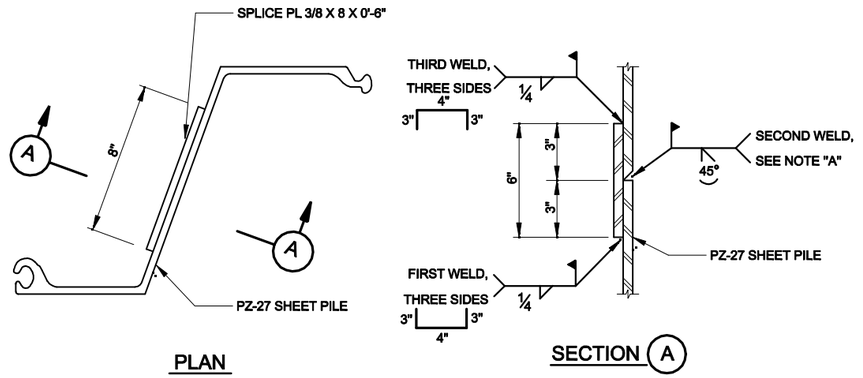


ELEVATION

DETAILS OF HOLES IN SHEET PILING

SHEET PILE NOTES

1. A MINIMUM OF 6 INCHES OF CONCRETE COVER SHALL BE PROVIDED OVER SHEET PILING AT ALL POINTS.
2. HOLES CUT INTO STEEL PILING FOR PASSING REINFORCING BARS SHALL NOT EXCEED 2" Ø WHERE HOLES FALL WITHIN THE WEB OF THE STEEL SHEET PILE, THE HOLE SHALL BE SLOTTED 4" HORIZONTALLY TO ACCOMMODATE PASSING THE REINFORCING BARS. REINFORCING BARS SHALL BE MOVED TO MISS SHEET PILE INTERLOCKS.
3. MONOLITH JOINTS SHALL BE LOCATED A MINIMUM OF 5 FEET FROM POINTS OF INTERSECTION.
4. ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER REPRESENTATIVE FOR APPROVAL.
5. STEEL SHEET PILE SURFACE PREPARATION AND PAINTING SHALL BE IN ACCORDANCE WITH SECTION 09940 OF THE SPECIFICATIONS.
6. STATIONS FOR SPECIAL Z-PILE TEES ARE APPROXIMATE.



PLAN

SECTION (A)

SHEET PILE SPLICE DETAIL

SCALE: 3" = 1' - 0"

NOTE "A":
GROOVE WELD SHALL EXTEND THE FULL LENGTH OF THE SHEET PILE WEB AND FLANGES EXCLUDING THE INTERLOCKS.

SCALE: 1"=1'
0 1' 2'

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE:1-1/2"=1'
0 6" 1' 2'

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PLOT SCALE: PLOT DATE:
FILE NAME: AE-TYP21.DGN
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D

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A/E TYPICAL DRAWINGS
-
WALL JOINTS
SHEET PILE DETAILS
(1 OF 2)

SHEET IDENTIFICATION
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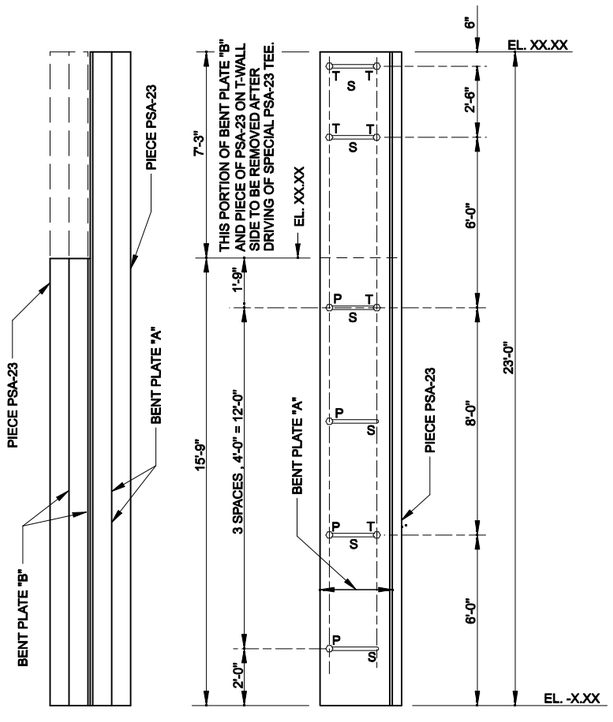


PROTECTED SIDE ELEVATION

I-WALL SIDE ELEVATION

STA. XXX+XX.XX W/L

ELEVATION OF SPECIAL PSA-23 TEE

SHOWING BENT PLATES BOLT SPACING

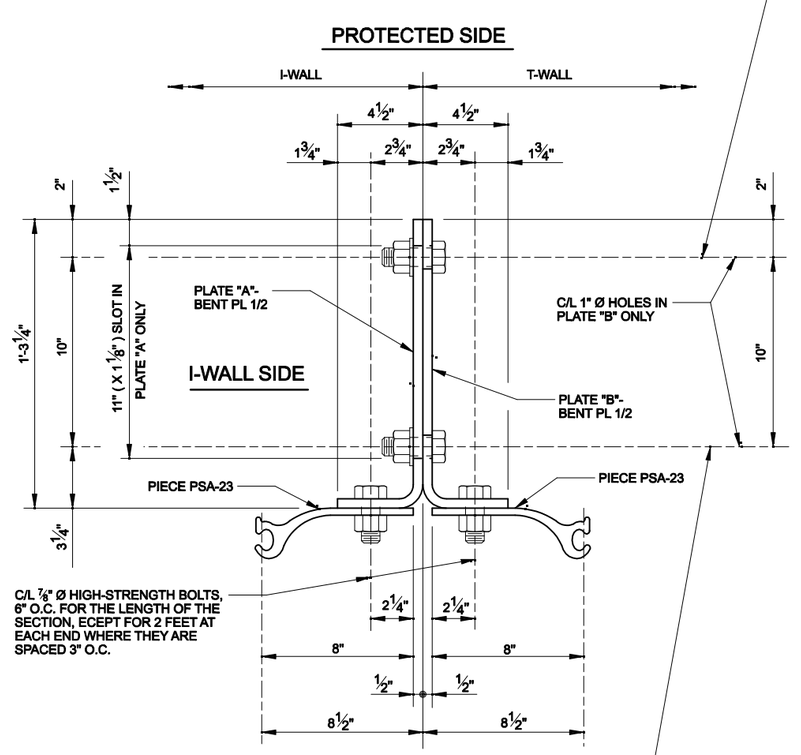
SCALE: HORIZ. 3/4" = 1'- 0"
VERT. 3/8" = 1'- 0"

LEGEND

P = PERMANENT BOLT
T = TEMPORARY BOLT
S = SLOTTED HOLE
(PLATE "A" ONLY)

PERMANENT BOLTS (TIGHTEN TO ALLOW FOR PLATE "A" SLIPPAGE)

C/L 7/8" Ø HIGH-STRENGTH BOLTS W/ FLAT WASHERS, SPACE FIRST BOLT 12" FROM TIP ELEVATION OF SPECIAL PSA-23 TEE, REST SPACED 4'-0" O.C. TO WITHIN 12" BELOW BOTTOM OF T-WALL BASE SLAB.



TEMPORARY DRIVING BOLTS

C/L 7/8" Ø HIGH-STRENGTH BOLTS W/ FLAT WASHERS, SPACE FIRST BOLT 5'-0" FROM TIP ELEVATION OF SPECIAL PSA-23 TEE, REST SPACED 8'-0" TO WITHIN 12" BELOW BOTTOM OF T-WALL BASE SLAB. THESE BOLTS ARE TO BE REMOVED WHEN EACH BOLT IS APPROXIMATELY 6" ABOVE GROUND LINE AS SPECIAL PSA-23 TEE IS DRIVEN, SO THAT UPON COMPLETION OF DRIVING NO TEMPORARY BOLTS REMAIN.

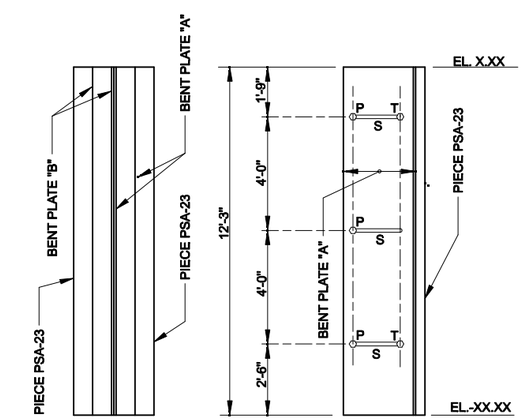
DETAIL (1)

SPECIAL PSA-23 TEE

SCALE: 3" = 1' - 0"

NOTE:

7/8" Ø HIGH-STRENGTH BOLTS SHALL BE HEAVY HEX BOLTS, ASTM A325M, TYPE 3 W/ HEAVY HEX NUTS, ASTM A563, GRADE C3, PLAIN, WEATHERING STEEL AND HARDENED STEEL WASHERS (WHERE REQUIRED), ASTM F436, PLAIN, TYPE 3 (WEATHERING STEEL).



PROTECTED SIDE ELEVATION

I-WALL SIDE ELEVATION

STA. XXX+XX.XX W/L - SHOWN
STA. XXX+XX.XX W/L - OPPOSITE HAND

ELEVATION OF SPECIAL PSA-23 TEE

SHOWING BENT PLATES BOLT SPACING

SCALE: HORIZ. 3/4" = 1'- 0"
VERT. 3/8" = 1'- 0"

SCALE: 3"=1'
0 3" 6" 9" 12"

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-
WALL JOINTS
SHEET PILE DETAILS
(2 OF 2)

SHEET IDENTIFICATION
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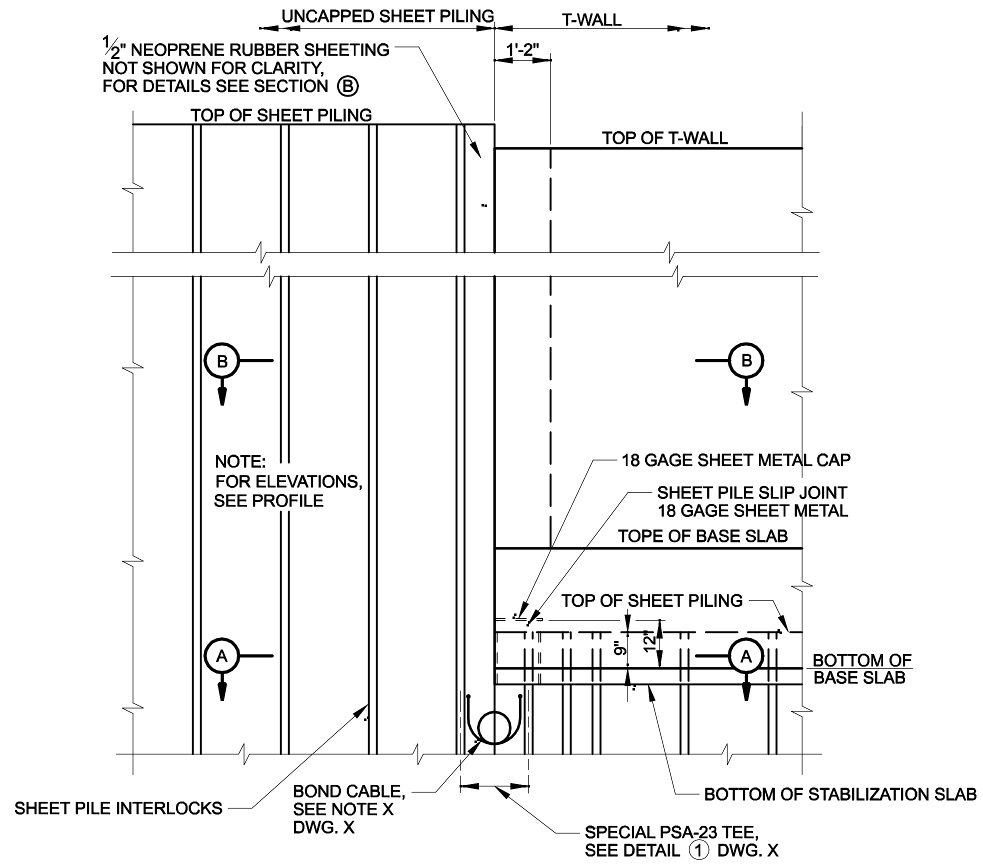
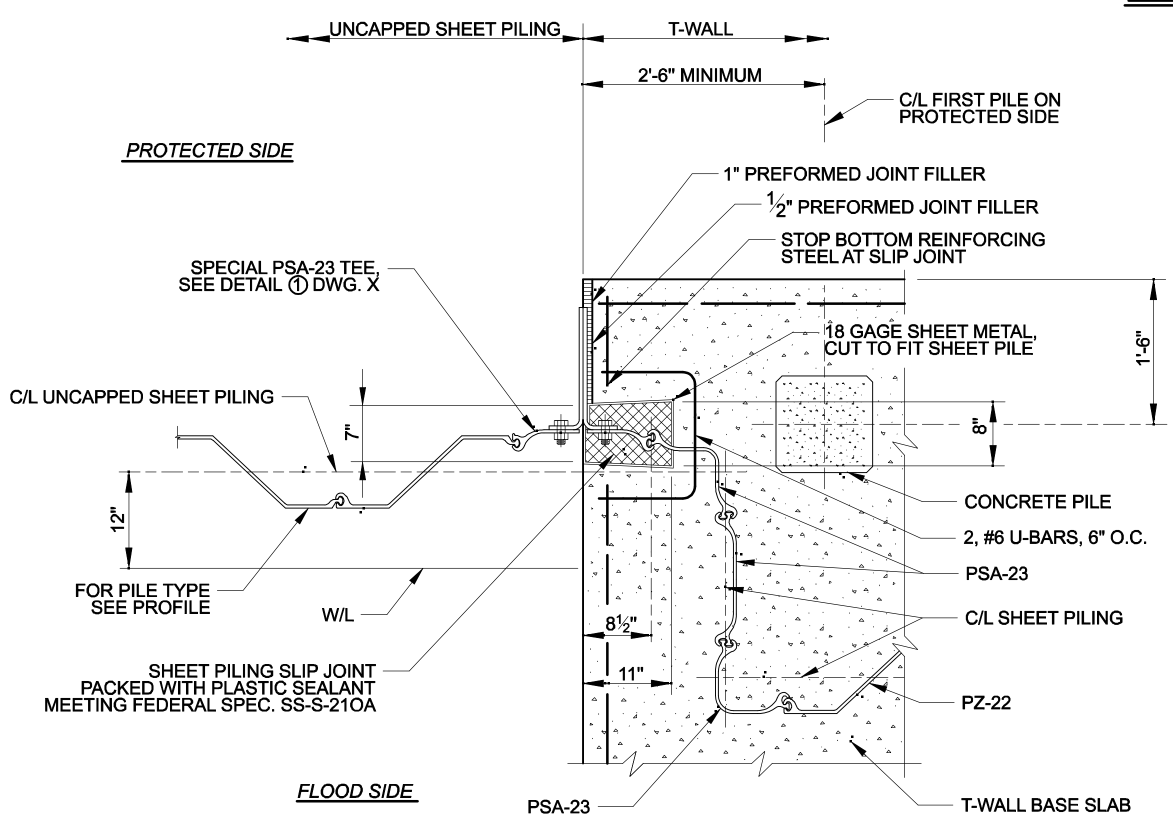
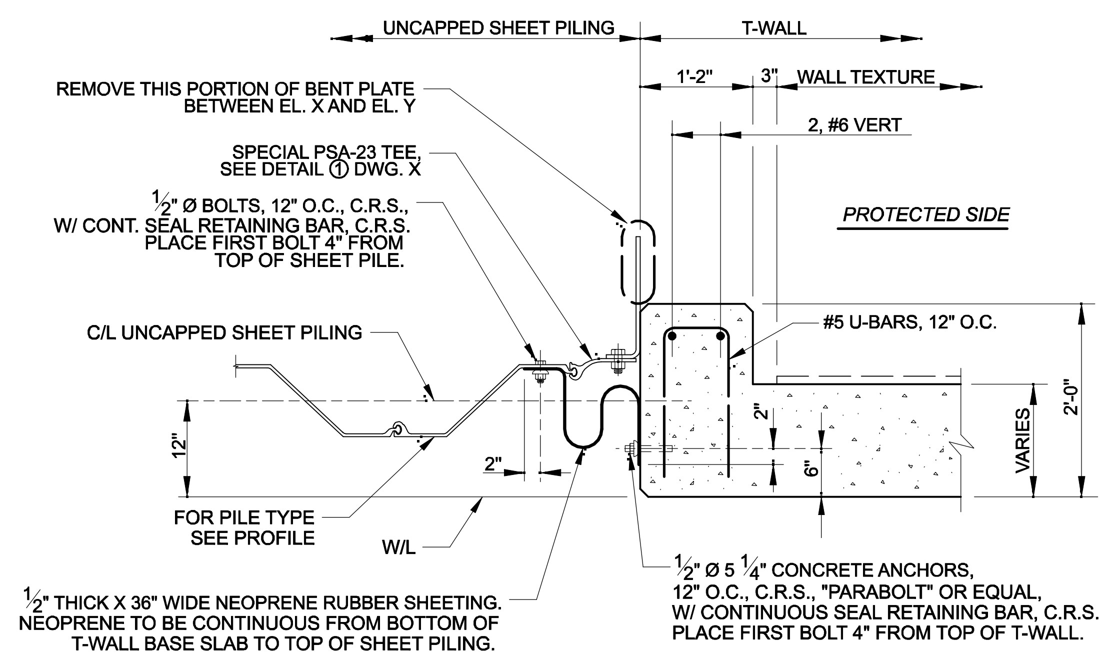


FLOOD SIDE ELEVATION
I-WALL TO T-WALL
SCALE: 3/4" = 1'- 0"



SECTION A
SCALE: 1" = 1'- 0"



FOR SEAL RETAINING BAR DETAIL, SEE DWG. X

SECTION B
SCALE: 1" = 1'- 0"

SCALE: 1/2"=1'
0 1' 2' 4'

SCALE: 1"=1'
0 1' 2'

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SUBMITTED BY:
CONTRACT NO.:
PLOT SCALE: 1/2" = 1'
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP22.DGN

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NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

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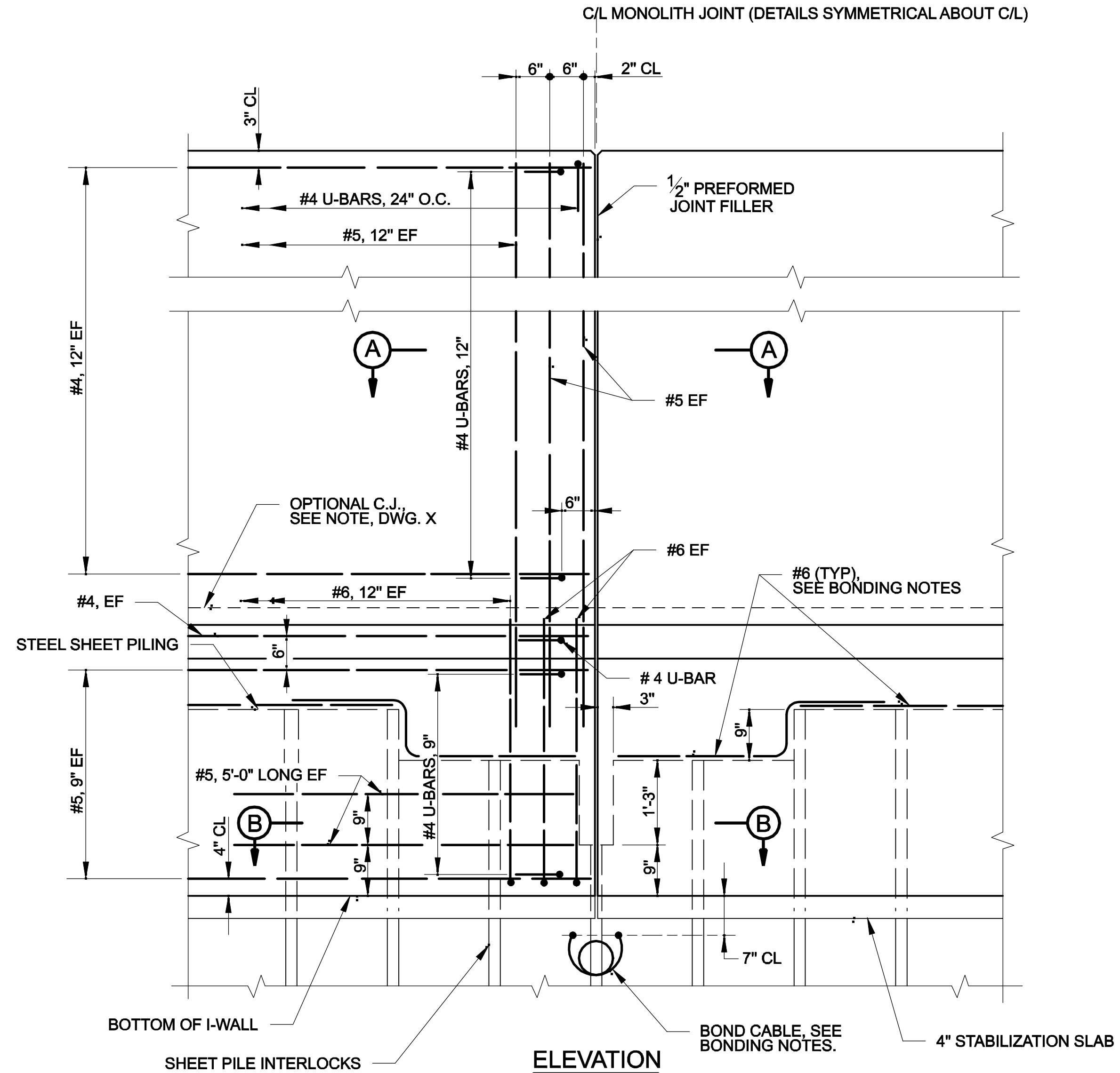
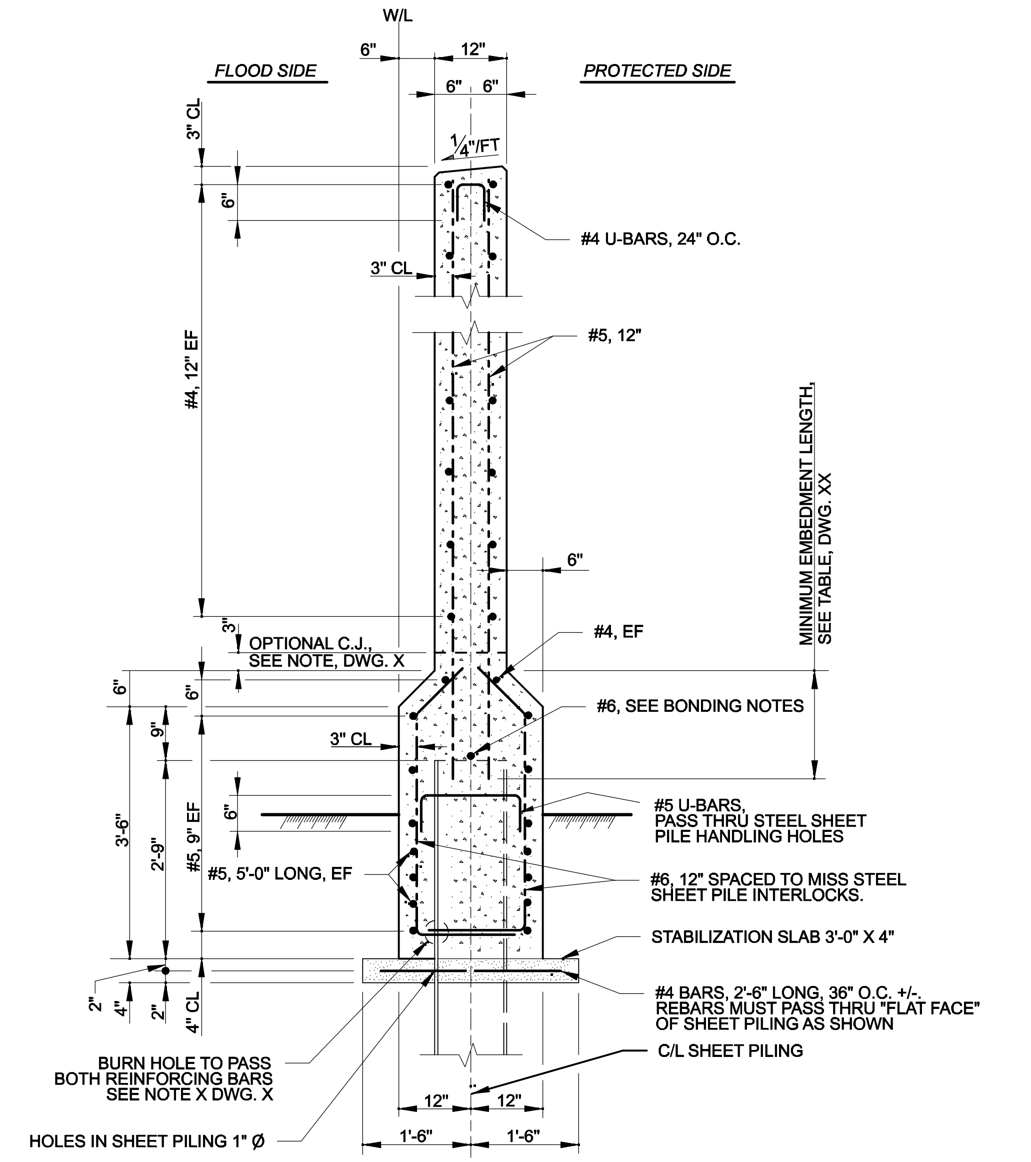
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
WALL JOINTS
SHEET PILE TO T-WALL
~

SHEET IDENTIFICATION
X-00



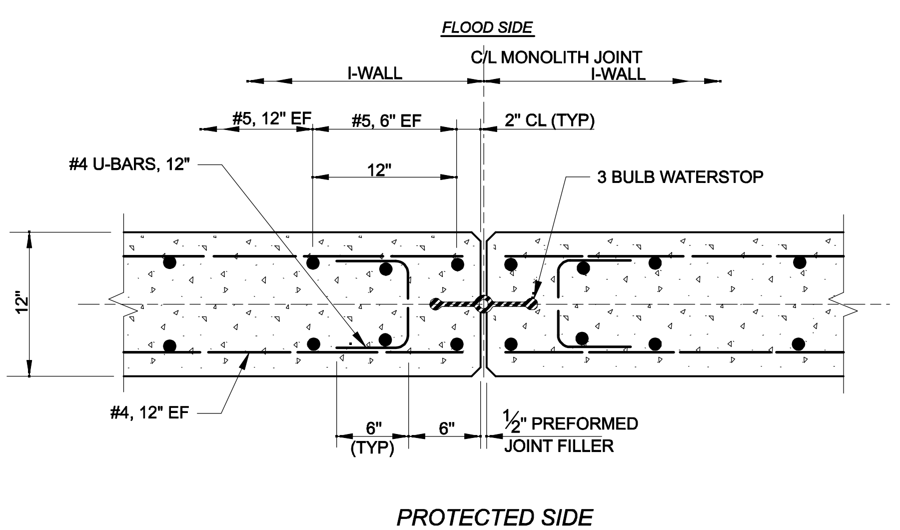
DETAIL OF I-WALL MONOLITH JOINTS

SCALE: 1" = 3/4"- 0"

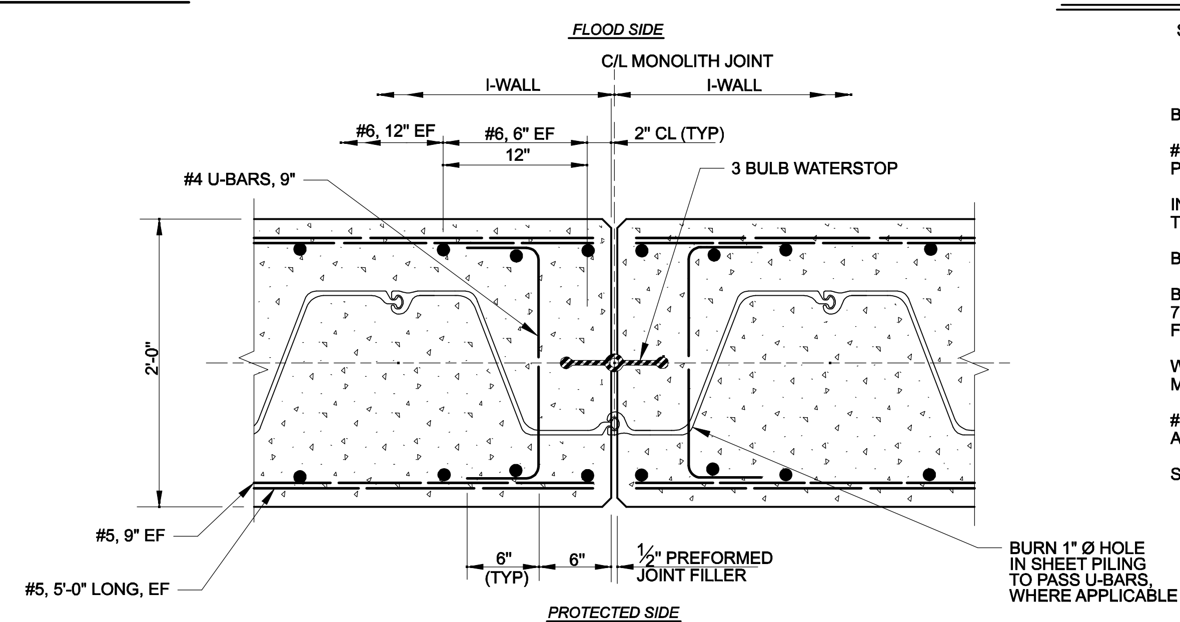


TYPICAL I-WALL SECTION

SCALE: 1" = 3/4"- 0"



SECTION (A)



SECTION (B)

TYPICAL REINFORCEMENT AT MONOLITH JOINTS

SCALE: 1 1/2" = 1' - 0"

BONDING NOTES:

#6 REINFORCING BAR TO BE WELDED TO THE TOP OF EACH STEEL SHEET PILE. #6 REINFORCING BAR SHALL NOT EXTEND ACROSS THE MONOLITH JOINT.

INSTALL BOND CABLE AT ALL I-WALL JOINTS AND AT ALL TRANSITIONS FROM T-WALL TO I-WALL JOINTS.

BOND CABLE SHALL HAVE AN 8" DIAMETER LOOP TO ALLOW FOR STRESSES.

BOND CABLES SHALL BE WELDED AS SPECIFIED TO ADJACENT STEEL PILES 7" BELOW BOTTOM OF CONCRETE CAP FOR I-WALL JOINTS AND AT TRANSITION FROM T-WALL TO I-WALL JOINTS.

WELDED CONNECTIONS SHALL BE COATED WITH SPLICING EPOXY TO OBTAIN MOISTURE PROOF JOINT. SEE SPECIFICATIONS.

#6 REINFORCING BARS SHALL BE WELDED TO THE LAST THREE SHEET PILINGS AT EACH END OF THE MONOLITH AS SHOWN FOR CONTINUITY.

SPLICING OF #6 REINFORCING BAR WILL NOT BE ALLOWED.

SCALE:3/4"=1'

0 1' 2' 3'

SCALE:1-1/2"=1'

0 6" 1' 2'

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SIZE: ANSI D	FILE NAME: AE-TYP23.DGN		

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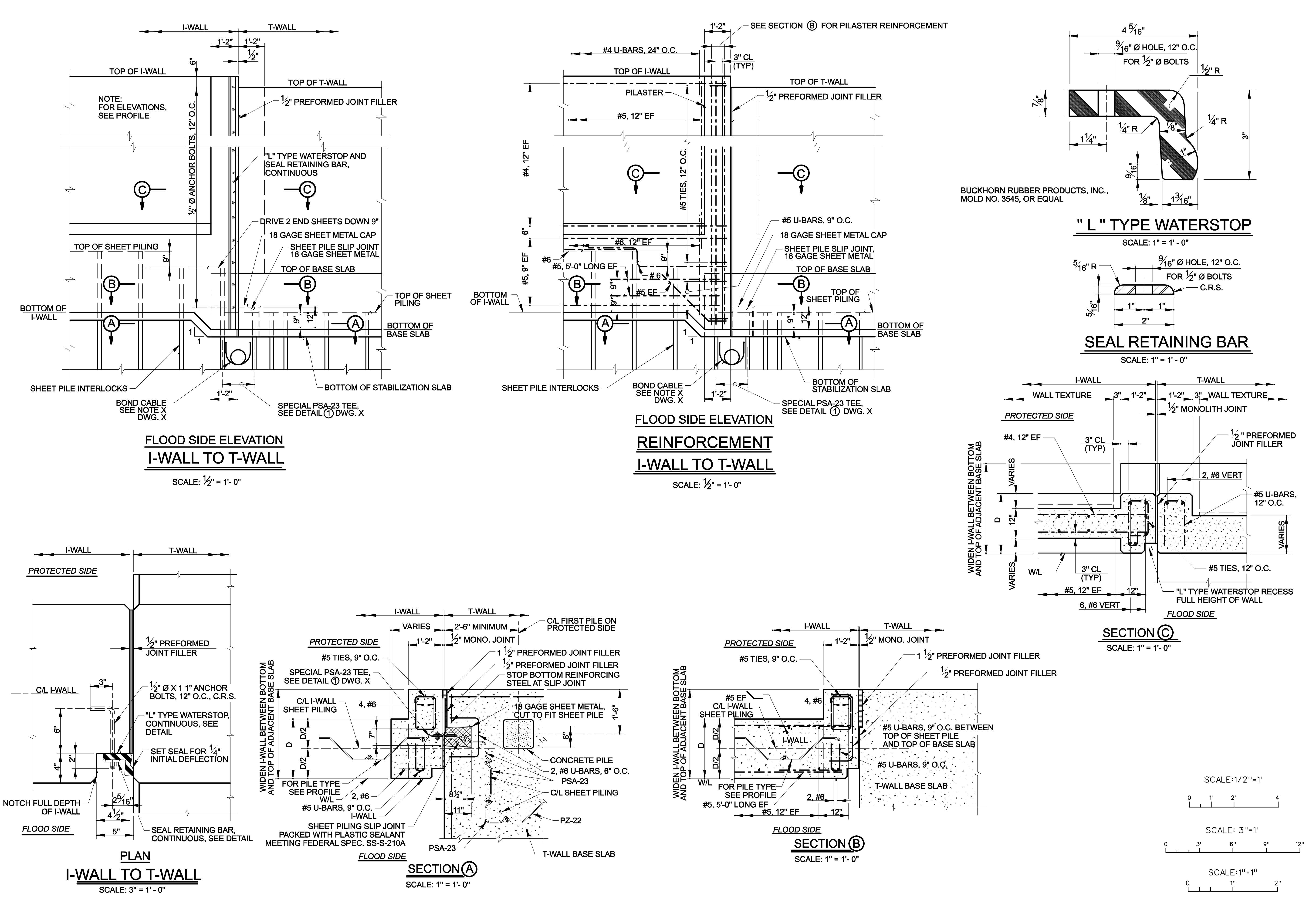
WALL JOINTS
I-WALL TO I-WALL
~

SHEET IDENTIFICATION
X-00



US Army Corps of Engineers®
NEW ORLEANS DISTRICT

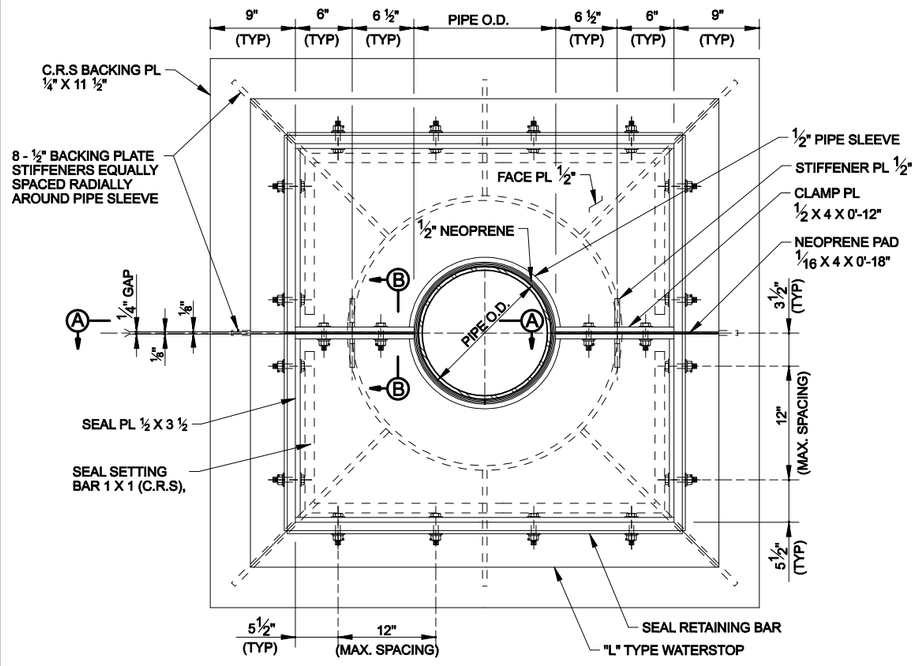
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DATE: MAY 2008
DWN BY: | CKD BY: | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.:
PLOT SCALE: 3" = 1' | PLOT DATE: | FILE NUMBER: A/E TYPICALS
SIZE: ANSI D | FILE NAME: AE-TYP24.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
WALL JOINTS
I-WALL TO T-WALL
~

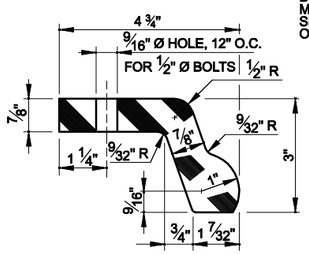
SHEET IDENTIFICATION
X-00



FLOOD SIDE ELEVATION

FRONTING PROTECTION UTILITY DETAIL

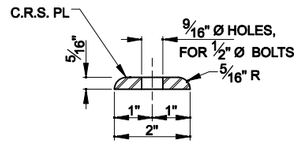
SCALE: 1 ½" = 1' - 0"



BUCKHORN RUBBER PRODUCTS, INC.
MOLD NO. 6404,
SPECIFICATION: NATURAL-177
OR EQUAL

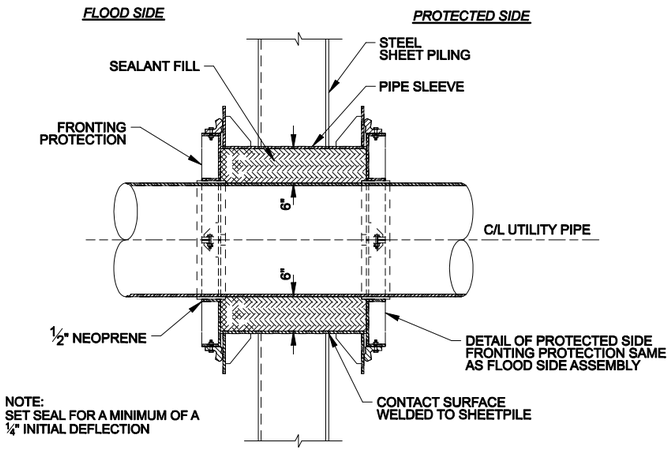
" L " TYPE WATERSTOP

SCALE: 6" = 1' - 0"



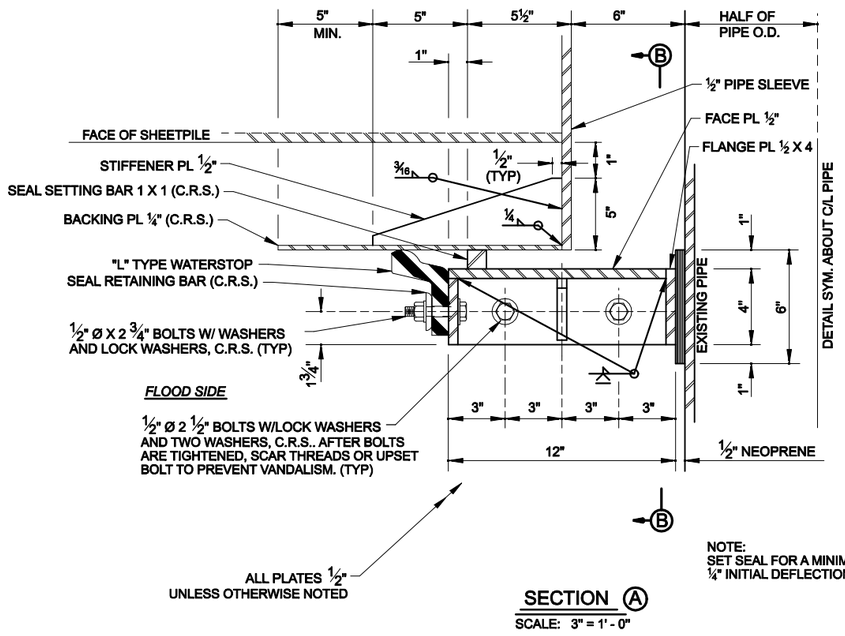
SEAL RETAINING BAR

SCALE: 6" = 1' - 0"



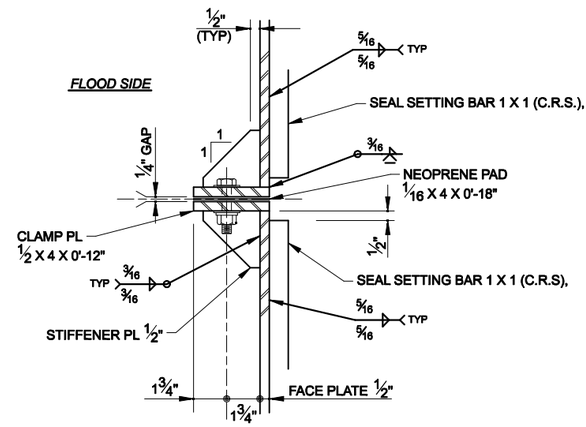
SECTION THRU SHEETPILE WALL

NTS



SECTION (A)

SCALE: 3" = 1' - 0"



SECTION (B)

SCALE: 3" = 1' - 0"

NOTES:

1. THIS DETAIL IS BASED ON THE NEW WALL FACE BEING PERPENDICULAR TO THE PIPE.
2. GAS AND PETROLEUM PIPELINES MAY REQUIRE THAT A 1.5" MINIMUM CONCRETE COATING BE APPLIED BEFORE THE SLEEVE IS INSTALLED.
3. ALL FLANGE MATERIAL ATTACHED TO THE SHEETPILE SHALL BE STEEL.
4. ALL MATERIAL FOR FRONTING PROTECTION SHALL BE ALUMINUM, UNLESS OTHERWISE NOTED.
5. ALL STRUCTURAL ALUMINUM PLATES SHALL BE ASTM B 209, TYPE 6061-T6
6. ALL CORROSION-RESISTANT STEEL (C.R.S.) SHALL BE TYPE 316.
7. WELDS SHOWN ARE TYPICAL FOR SIMILAR JOINTS AND ALL WELDS ON WALL SIDE OF FACE PLATE SHALL BE FLUSH WITH BASE METAL.
8. AFTER THE TWO FRAMES ARE LOOSELY CLAMPED ON THE PIPE, THE TOTAL ASSEMBLY SHALL BE PUSHED AGAINST THE WALL, SETTING THE SEALS, THEN TIGHTEN CLAMP PLATES TO CLOSE THE ¼" GAP
9. UPON COMPLETION OF THE ASSEMBLY, APPLY A ANAEROBIC ADHESIVE (LOCTITE THREADLOCKER 290 OR EQUAL) TO ALL NUT AND BOLT JUNCTURES.

SCALE:3/4"=1'
0 1' 2' 3'

SCALE:1-1/2"=1'
0 6" 1' 2'

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

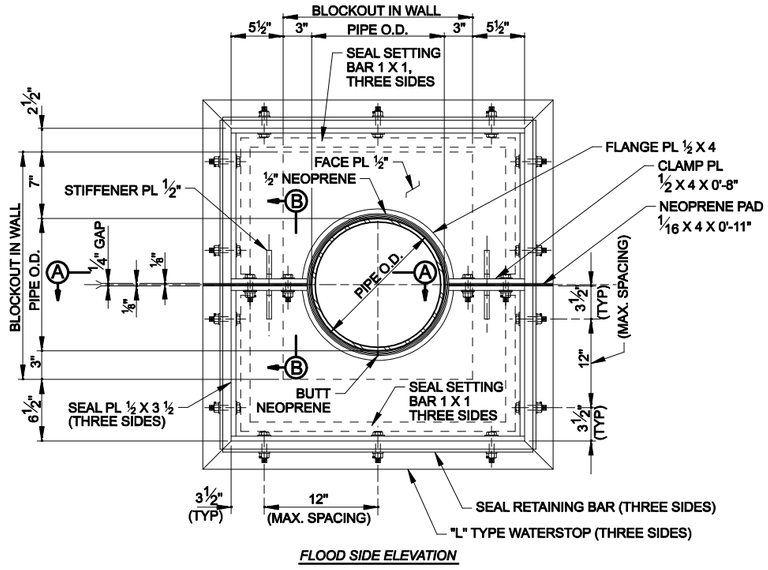
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1 = 1'
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP02.DGN

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
UTILITY DETAILS
SHEET PILE PENETRATION
~

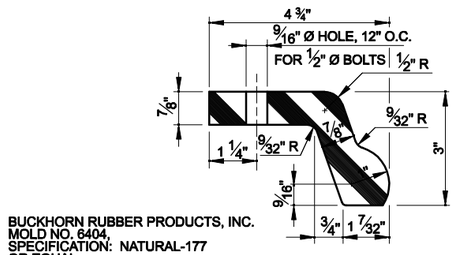
SHEET IDENTIFICATION
X-00



FLOOD SIDE ELEVATION

FRONTING PROTECTION UTILITY DETAIL

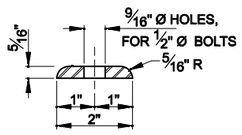
SCALE: 1 ½" = 1' - 0"



BUCKHORN RUBBER PRODUCTS, INC.
MOLD NO. 6404,
SPECIFICATION: NATURAL-177
OR EQUAL

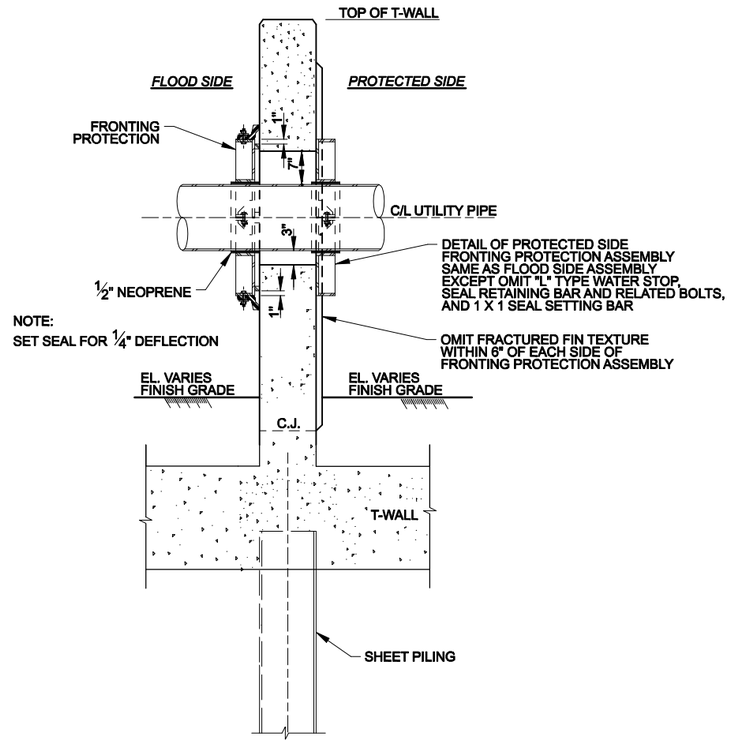
" L " TYPE WATERSTOP

SCALE: 6" = 1' - 0"



SEAL RETAINING BAR

SCALE: 6" = 1' - 0"



SECTION THRU FLOODWALL

SCALE: ¾" = 1' - 0"

NOTES:

1. THIS DETAIL WAS DRAWN FOR A 14" O.D. PIPE.
2. THIS DETAIL IS BASED ON THE NEW WALL FACE BEING PERPENDICULAR TO THE PIPE.
3. GAS AND PETROLEUM PIPELINES MAY REQUIRE THAT A 1.5" MINIMUM CONCRETE COATING BE APPLIED BEFORE THE SLEEVE IS INSTALLED.
4. ALL MATERIAL FOR FRONTING PROTECTION SHALL BE ALUMINUM, UNLESS OTHERWISE NOTED.
5. ALL STRUCTURAL ALUMINUM PLATES SHALL BE ASTM B 209, TYPE 6061-T6
6. ALL CORROSION-RESISTANT STEEL (C.R.S.) SHALL BE TYPE 316.
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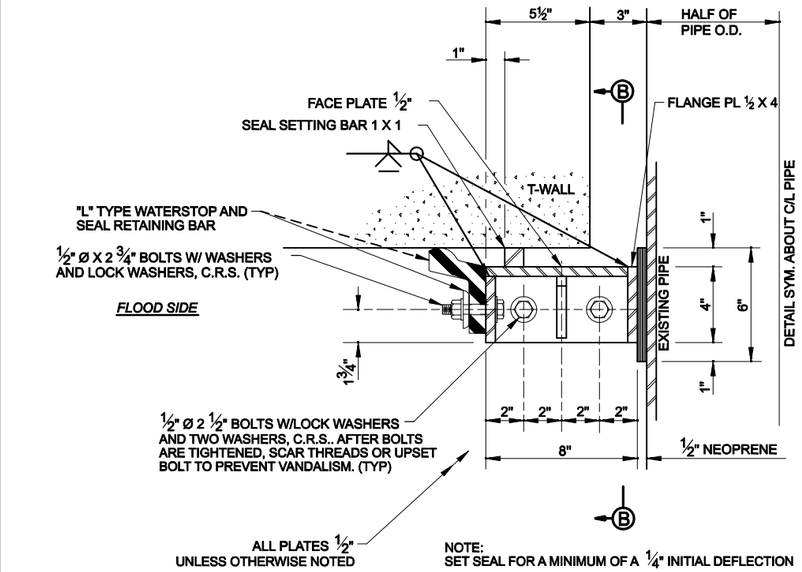
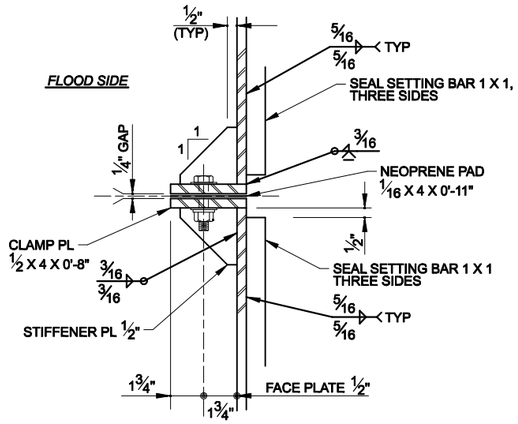
8. AFTER THE TWO FRAMES ARE LOOSELY CLAMPED ON THE PIPE, THE TOTAL ASSEMBLY SHALL BE PUSHED AGAINST THE WALL, SETTING THE SEALS, THEN TIGHTEN CLAMP PLATES TO CLOSE THE ¼" GAP
9. UPON COMPLETION OF THE ASSEMBLY, APPLY A ANAEROBIC ADHESIVE (LOCTITE THREADLOCKER 290 OR EQUAL) TO ALL NUT AND BOLT JUNCTURES.



SECTION Ⓐ

SCALE: 6" = 1' - 0"

NOT DEFLECTED ¼" DEFLECTION



SECTION Ⓑ

SCALE: 6" = 1' - 0"

SCALE:3/4"=1'
0 1' 2' 3'

SCALE:1-1/2"=1'
0 6" 1' 2'

SCALE: 6"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

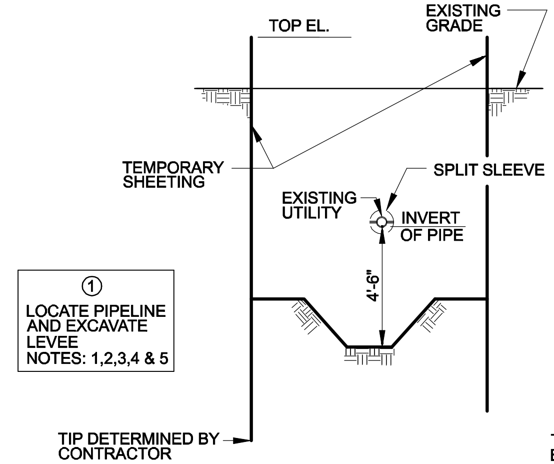
DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1.5" = 1"
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP01.DGN

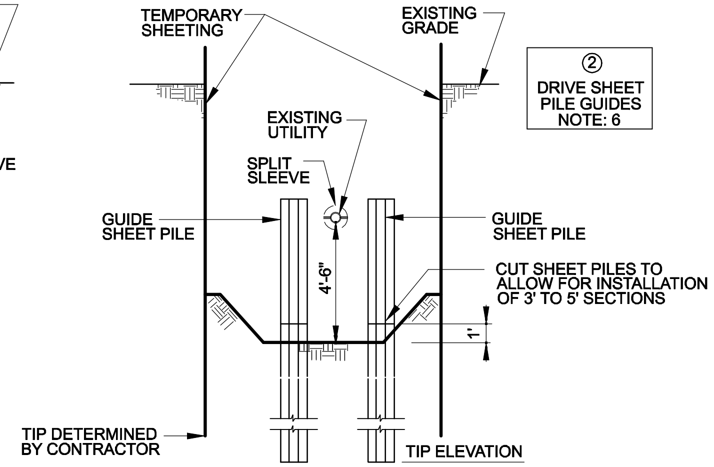
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

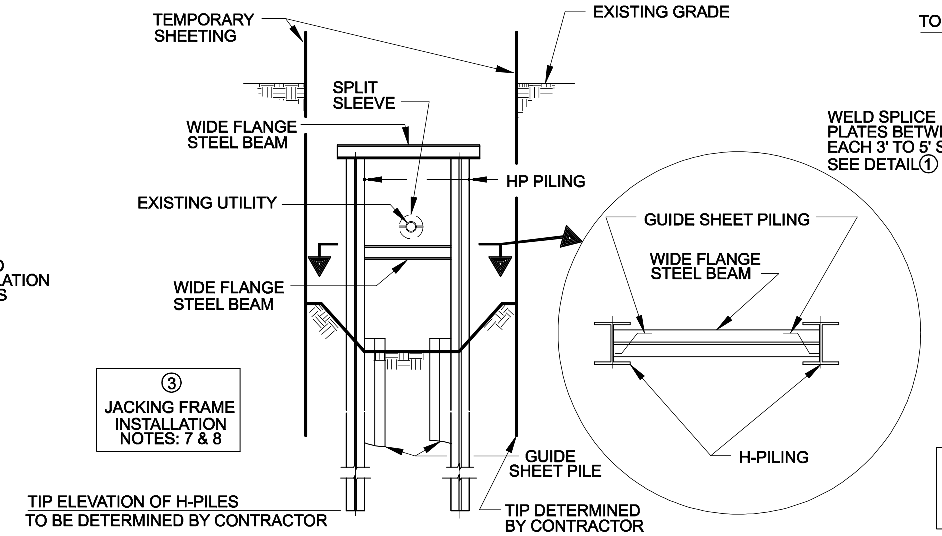
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS

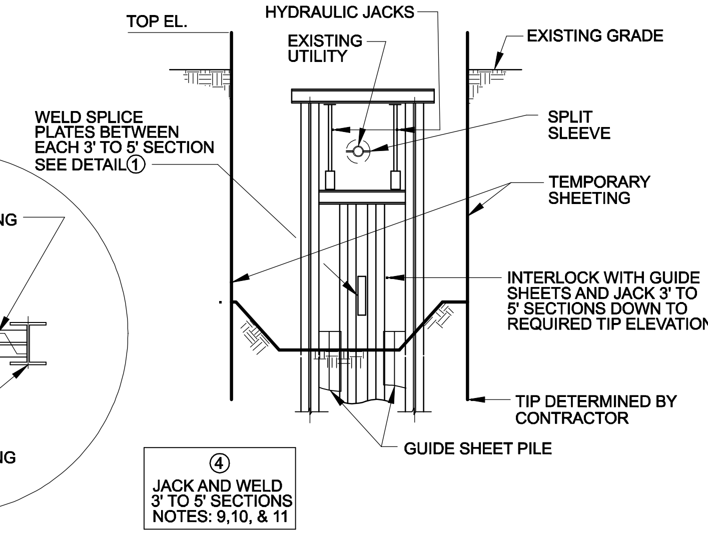
UTILITY DETAILS
T-WALL PENETRATION

SHEET IDENTIFICATION
X-00



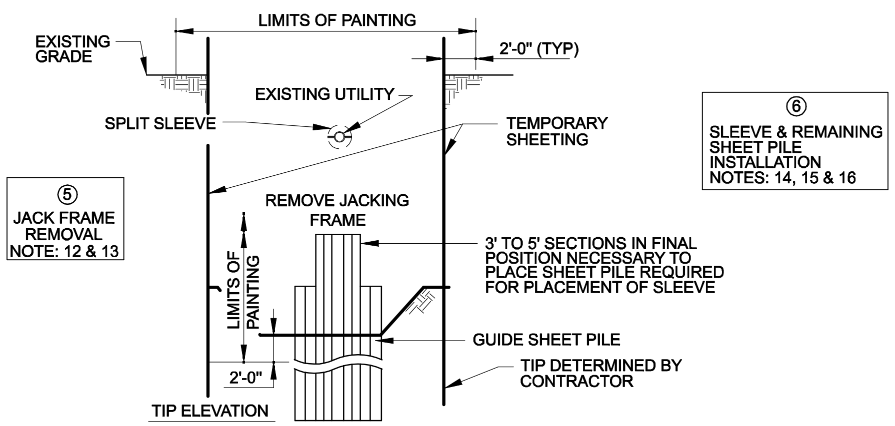


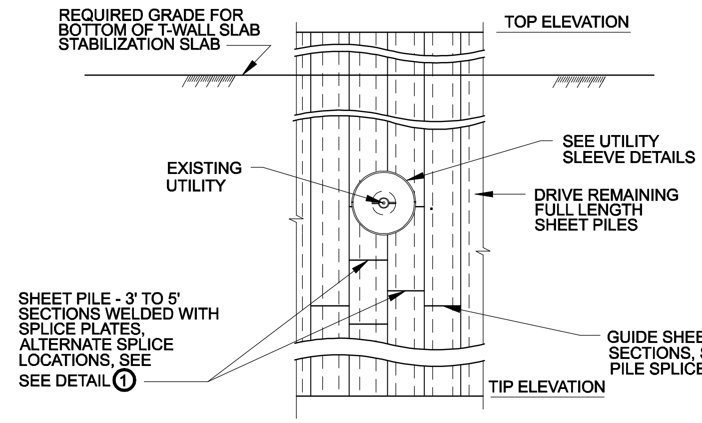




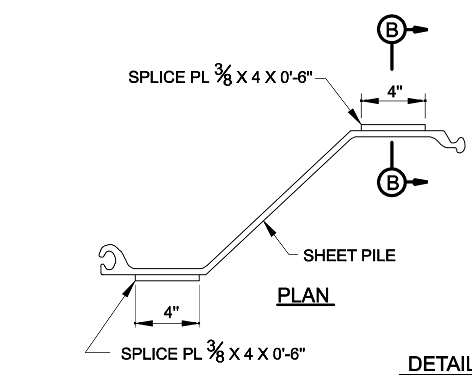
SHEET PILING NOTE:
MINIMUM SECTION OF SHEET PILING TO BE DETERMINED BY USACE.

EXCAVATION NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE EXCAVATION, SEE JACKING NOTES 4 & 5.





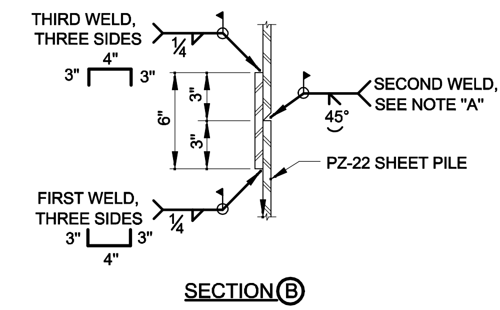
SECTION Ⓐ



DETAIL ①

SHEET PILE SPLICE

WELD NOTE:
WELDS SHOWN ON SECTION Ⓑ



SECTION Ⓑ

NOTE "A":
GROOVE WELD SHALL EXTEND THE FULL LENGTH OF THE SHEET PILE WEB AND FLANGES EXCLUDING THE INTERLOCKS.

SPLICE PLATE NOTE:
TWO SPLICE PLATES PER SHEET PILE MINIMUM ON ANY SHEET PILE SPLICE.

GENERAL NOTES:

1. ANY PIPELINE PENETRATION THRU THE FLOOD PROTECTION SHALL CONFORM TO USACE PERMIT STANDARDS DRAWINGS 5A THRU 5C, FILE NUMBER H-8-29027, DATED OCTOBER 2002, AS SHOWN ON DRAWING 13.
2. STEEL PIPE SLEEVES SHALL BE ASTM A53, TYPE S, GRADE B, PLAIN END. FOR OUTER EDGES WITH DIAMETER LESS THAN OR EQUAL TO 24 INCHES.

SLEEVE SCHEDULE

SHEET PILE DEPTH "D"	SLEEVE LENGTH
12" OR LESS	3'-0"
GREATER THAN 12"	3'-4"

JACKING NOTES:

1. RESERVED
2. CONTRACTOR FOR THE UTILITY SHALL LOCATE, MARK, EXCAVATE AND EXPOSE THE UTILITY AS NECESSARY FOR PLACEMENT OF THE SPLIT SLEEVE CARRIER. MARKERS PLACED FOR THE UTILITY SHALL BE CLEARLY VISIBLE, SO THE CONTRACTOR CAN CLEARLY LOCATE THE UTILITY DURING CONSTRUCTION. PERMANENT MARKERS SHALL BE PLACED BY THE CONTRACTOR FOR THE UTILITY AFTER COMPLETION OF THE CONSTRUCTION PROJECT.
3. CONTRACTOR FOR THE UTILITY SHALL PLACE THE UTILITY IN THE SPLIT-SLEEVE CARRIER PRIOR TO ANY WORK BY THE CONTRACTOR. THE CONTRACTOR MAY BE REQUIRED BY THE UTILITY OWNER TO SUPPORT THE UTILITY WITHIN THE EXCAVATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION ACTIVITIES REGARDING EXCAVATING FOR AND DRIVING OF THE SHEET PILE AND PLACING THE RELOCATION/UTILITY THROUGH THE SHEET PILE WALL.
5. THE CONTRACTOR SHALL EXCAVATE THE EXISTING GROUND TO AN ELEVATION 4'-6" BELOW OF THE INVERT OF THE PIPELINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE EXCAVATION. THE DESIGN SHALL BE STAMPED BY A REGISTERED ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
6. THE CONTRACTOR SHALL DRIVE TWO (2) SHEET PILE GUIDES AS SHOWN IN SEQUENCE ② ABOVE.
7. THE CONTRACTOR SHALL DRIVE H-PILES TO A DEPTH DETERMINED BY DESIGN CALCULATIONS.
8. THE CONTRACTOR SHALL WELD A WIDE FLANGE (WF) CROSS BEAM TO THE TOP OF THE H-PILES AND INSTALL WIDE FLANGE (WF) JACKING BEAM WITH HYDRAULIC JACKS SUPPORTED BY THE CROSS BEAM.
9. THE CONTRACTOR SHALL INTERLOCK 3' TO 5' LENGTH SHEET PILES AND JACK BETWEEN SHEET PILE GUIDES AS SHOWN IN SEQUENCE ④.
10. AFTER THE FIRST 3' TO 5' PANEL HAS BEEN DRIVEN, RAILROAD GATE CONTRACTOR SHALL WELD THE NEXT 3' TO 5' PANEL TO THE PREVIOUS PANEL USING SPLICE PLATES (SEE DETAIL ①).
11. RAILROAD GATE CONTRACTOR SHALL REPEAT STEPS IN NOTES 9 AND 10 UNTIL THE SHEET PILING BELOW THE PIPELINE IS DRIVEN TO AN ELEVATION REQUIRED FOR PLACEMENT OF SHEET PILES WHICH ARE NECESSARY FOR PLACEMENT OF OUTER SLEEVE.
12. THE CONTRACTOR SHALL REMOVE JACKING FRAME.
13. ALL SHEET PILE ABOVE AN ELEVATION TWO (2) FEET BELOW THE EXCAVATION SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATION 09940. THE HORIZONTAL LIMITS OF PAINTING SHALL BE TWO (2) FEET BEYOND THE EDGE OF THE EXCAVATION.
14. THE CONTRACTOR SHALL INSTALL SHEET PILING NECESSARY TO PLACE SLEEVE, AND AFTER SLEEVE PLACEMENT IS COMPLETE, PLACE THE REMAINING SHEET PILE.
15. THE CONTRACTOR SHALL INSTALL SHEET PILING TO GRADE AS REQUIRED BY USACE. NOTE: IF PILING BELOW THE UTILITY IS DRAGGED DOWNWARD DURING DRIVING OF ADJACENT PILING, CONTRACTOR SHALL ADD LENGTH BY WELDING NEW PILING TO REQUIRED GRADE. DO NOT PULL SHEET PILE UP TO GRADE.
16. THE CONTRACTOR SHALL BACKFILL THE EXCAVATION WITH THE SAME MATERIAL EXCAVATED TO THE REQUIRED GRADE. THE MATERIAL SHALL BE REPLACED WITHOUT COMPACTION AND AS CLOSE TO ITS IN-SITU STATE AS POSSIBLE. AT NO TIME SHALL THE SHEET PILE BE PULLED TO GRADE IF IT HAS MOVED.

US Army Corps of Engineers® NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

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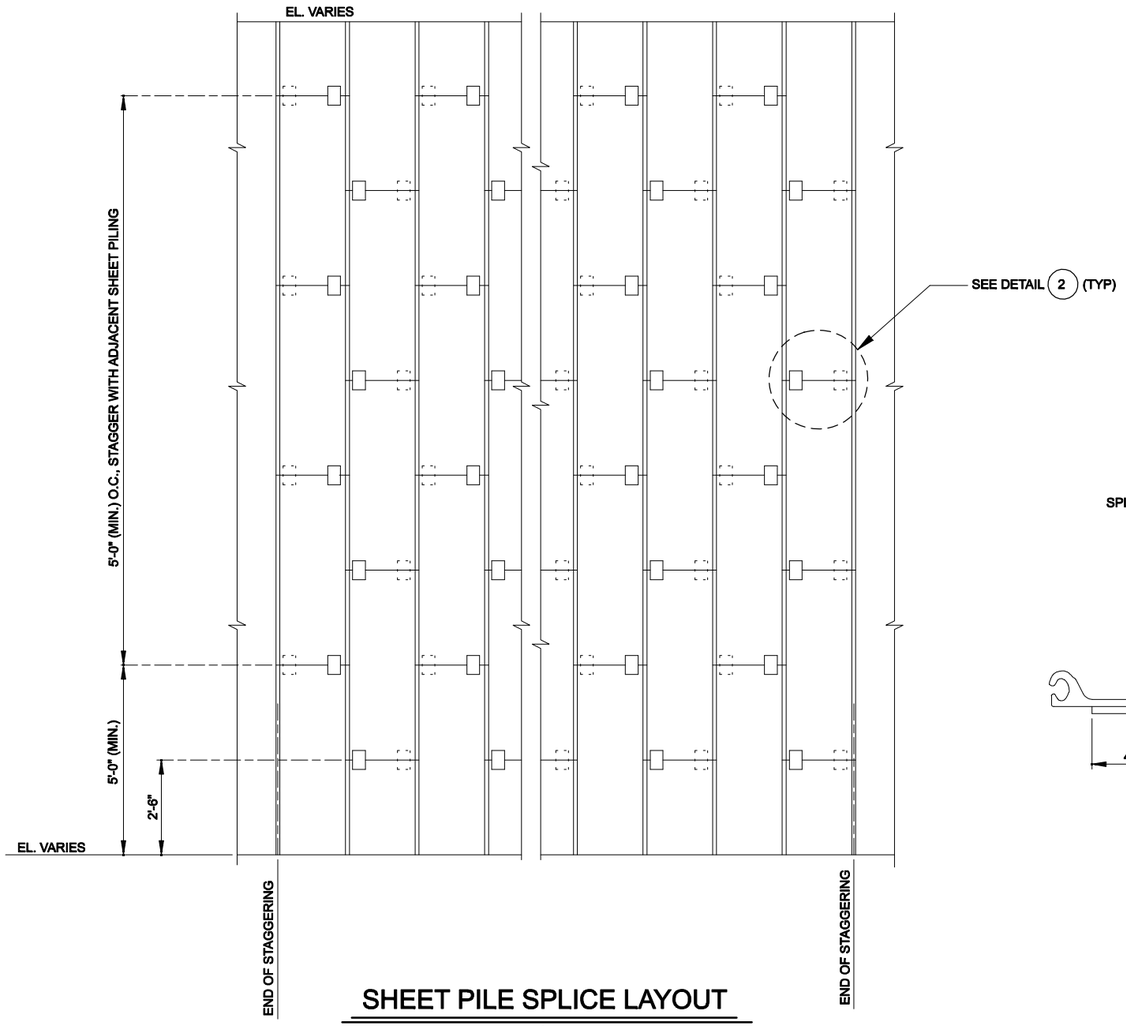
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS | DATE: MAY 2008
DWN BY: | CKD BY: | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.:
PLOT SCALE: N.T.S. | PLOT DATE: | FILE NUMBER: A/E TYPICALS
SIZE: ANSI D | FILE NAME: AE-TYP32.DGN

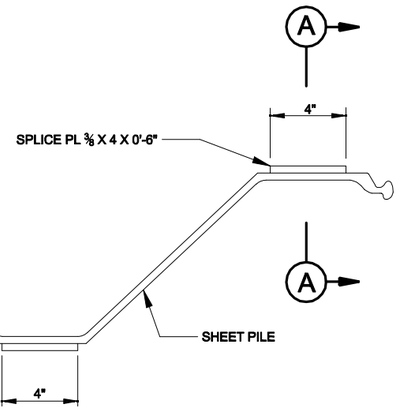
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
UTILITY DETAILS
JACKING SHEET PILE UNDER UTILITIES
~

SHEET IDENTIFICATION
X-00



SHEET PILE SPLICE LAYOUT

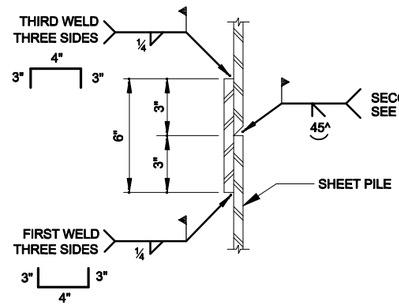
SCALE: 1/2" = 1'-0"



PLAN

NOTE "A"

GROOVE WELD SHALL EXTEND THE FULL LENGTH OF THE SHEET PILE WEB AND FLANGES EXCLUDING THE INTERLOCKS.



SECTION A

DETAIL 2

SCALE: 3" = 1'-0"

SCALE:1/2"=1'

0 1' 2' 4'

SCALE: 3"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

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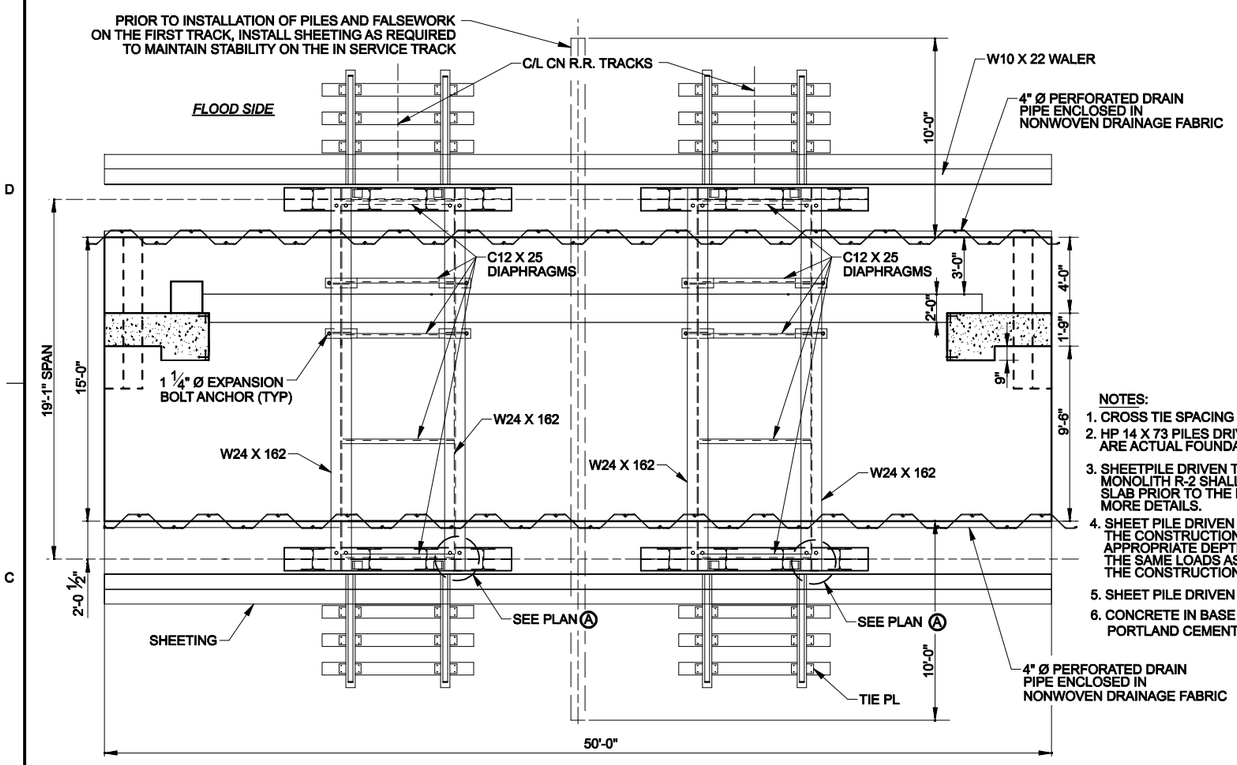
DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1" = 1"
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: A/E-TYP3S.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS

UTILITY DETAILS
SPLICED SHEET PILE LAYOUTS

SHEET IDENTIFICATION
X-00

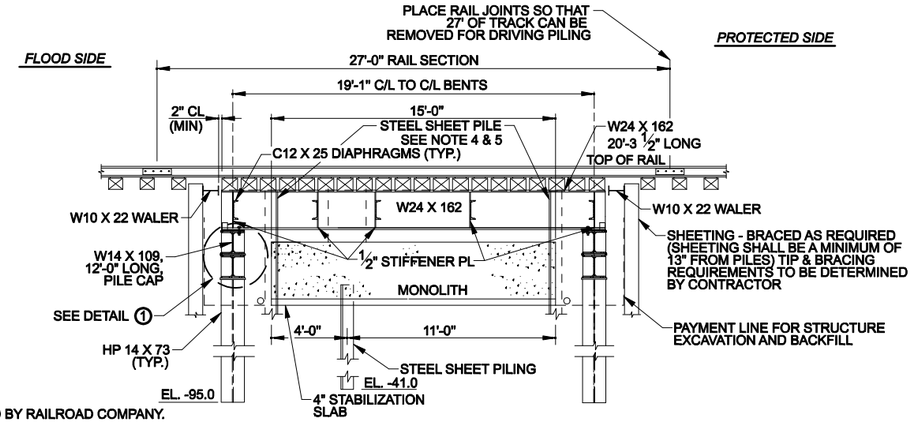


PROTECTED SIDE

PLAN - FALSEWORK

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

NOTE: RAILS AND CROSS TIES NOT SHOWN FOR CLARITY



SECTION - FALSEWORK SPAN

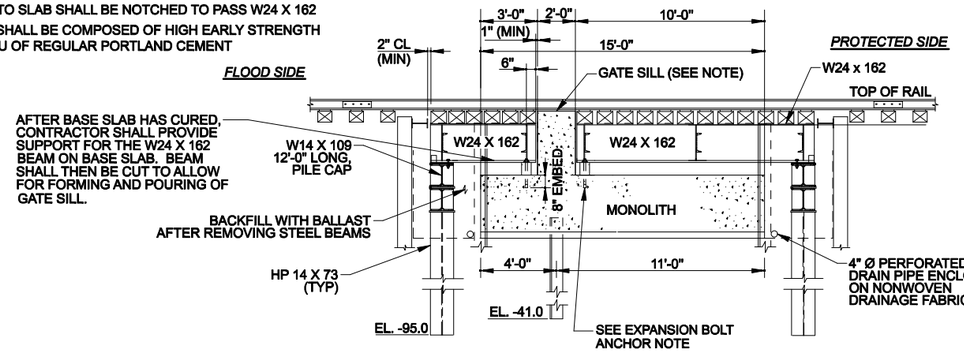
SCALE: 1/4 " = 1'-0"

NOTES:

1. CROSS TIE SPACING TO BE DETERMINED BY RAILROAD COMPANY.
2. HP 14 X 73 PILES DRIVEN TO SUPPORT W14 X 109 PILE CAPS ARE ACTUAL FOUNDATION PILES FOR THE ADJACENT MONOLITHS.
3. SHEETPILE DRIVEN TO RETAIN THE BALLAST FOR CONSTRUCTION OF MONOLITH R-2 SHALL BE CUT OFF BELOW THE BOTTOM OF THE BASE SLAB PRIOR TO THE POURING OF THE SLAB. SEE DRAWING 18-20 FOR MORE DETAILS.
4. SHEET PILE DRIVEN NEXT TO SLAB SHALL BE USED FOR BRACING IN THE CONSTRUCTION OF ADJACENT MONOLITHS AND DRIVEN TO THE APPROPRIATE DEPTHS (DETERMINED BY CONTRACTOR) TO HANDLE THE SAME LOADS AS THE SHEET PILE BEING USED FOR BRACING IN THE CONSTRUCTION OF MONOLITH.
5. SHEET PILE DRIVEN NEXT TO SLAB SHALL BE NOTCHED TO PASS W24 X 162
6. CONCRETE IN BASE SLAB SHALL BE COMPOSED OF HIGH EARLY STRENGTH PORTLAND CEMENT IN LIEU OF REGULAR PORTLAND CEMENT

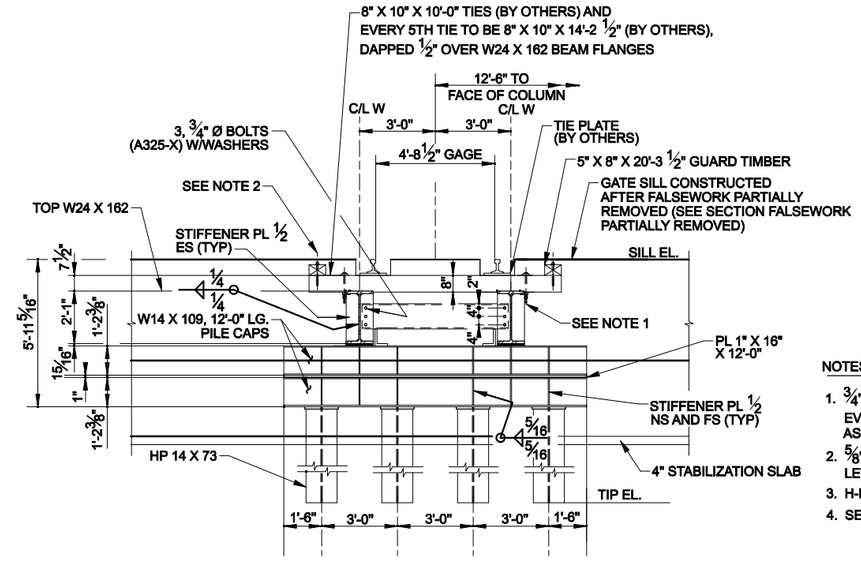
EXPANSION BOLT ANCHOR NOTE:

1 1/4" Ø X 18" LONG TRUBOLT WEDGE ANCHOR W/ NUT AND WASHER AS MFD. BY ITW RAMSET/REDHEAD, WOOD DALE, ILLINOIS OR EQUAL. ONE SIDE OF W24 X 162, SEE PLAN



SECTION - FALSEWORK PARTIALLY REMOVED

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

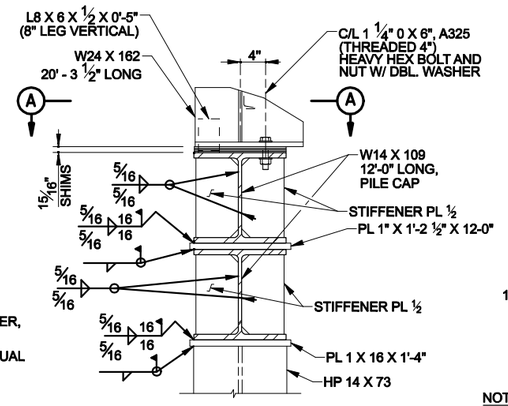


ELEVATION - FALSEWORK BENTS

SCALE: 3/8 " = 1'-0"

NOTES:

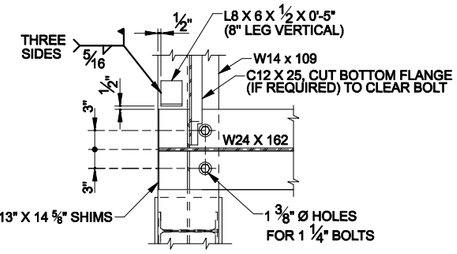
1. 3/4" Ø x 13" HEX BOLT (THREADED 4") AND NUT W/ EVER TIGHT WASHER, EVER TIGHT SPRING AND OFFSET SHOE TYPE A (X= 2", Y= 1/2"), AS MFD. BY LEWIS BOLT AND NUT CO., WAYZATA, MINNESOTA OR EQUAL
2. 5/8" Ø x 10" WASHER HEAD TIMBER DRIVE SPIKE AS MFD. BY LEWIS BOLT AND NUT CO., WAYZATA, MINNESOTA OR EQUAL
3. H-PILES MAY BE SPLICE, SEE DWG. XX FOR DETAILS.
4. SEE DRAWING XX FOR ALL SWING GATE MONOLITH DIMENSIONS



DETAIL 1

SCALE: 1"=1'-0"

NOTE:
CONCRETE IN GATE SILL SHALL BE HIGH EARLY STRENGTH PORTLAND CEMENT IN LIEU OF REGULAR PORTLAND CEMENT



PLAN A

SCALE: 1"=1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE DWG. 2.
2. EXTENDED DRAINAGE PIPE TO FACE OF EMBANKMENT SLOPE, PROTECT WITH 12" SOIL BLANKET.

SCALE:1/4"=1' 0 2' 4' 8'

SCALE: 1"=1' 0 1' 2'

SCALE:3/8"=1' 0 1' 3' 6'

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

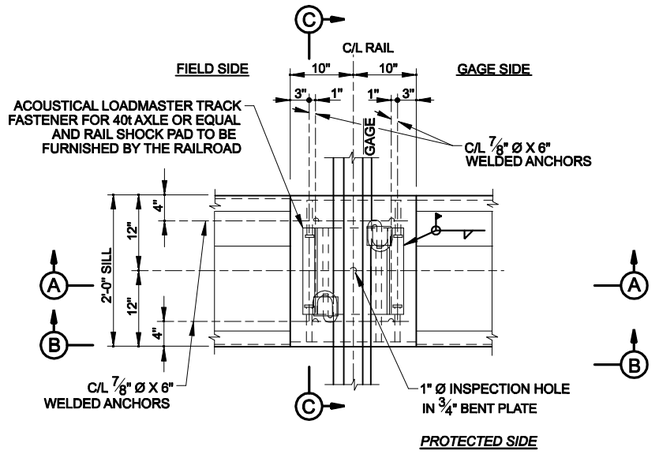
DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2006
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE:
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYPNOLDSN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS

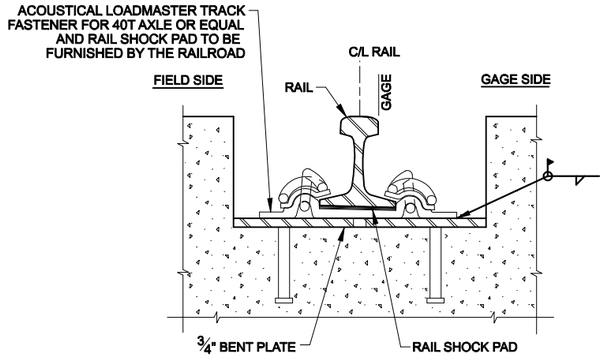
RAILROAD DETAILS
CONSTRUCTION FALSEWORK DETAILS

SHEET IDENTIFICATION
X-00

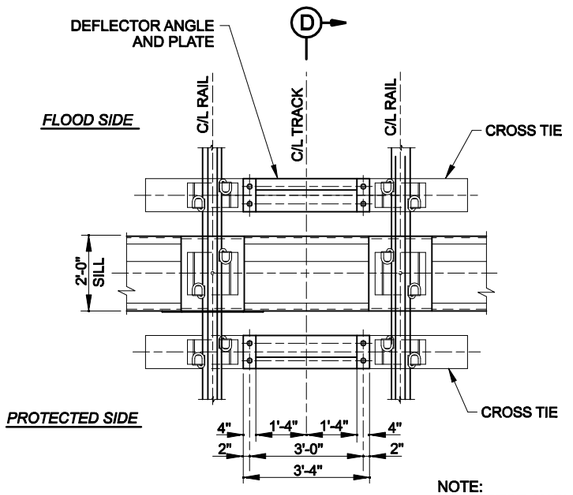


PLAN

SCALE: 1" = 1' - 0"



RAIL AND COMPONENT PARTS DETAIL

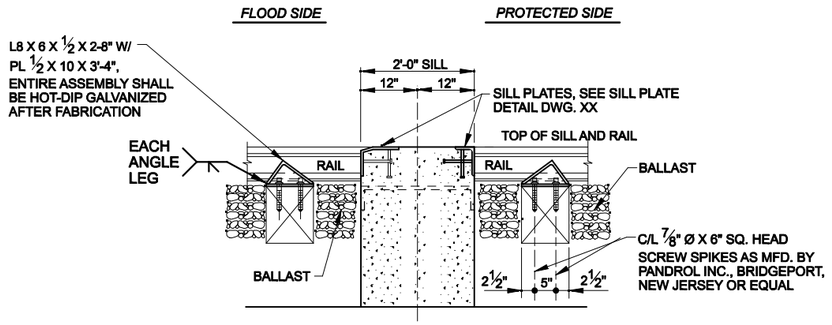


NOTE:
DEFLECTOR ANGLE AND PLATE TO BE PLACED ON FIRST TIE EACH SIDE OF SILL.

PLAN

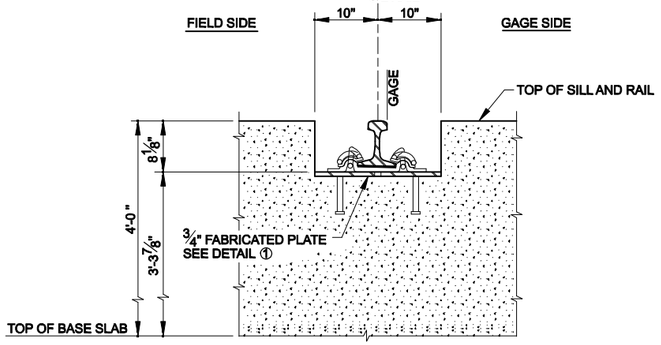
DEFLECTOR ANGLE AND PLATE DETAIL

SCALE: 1/2" = 1'- 0"



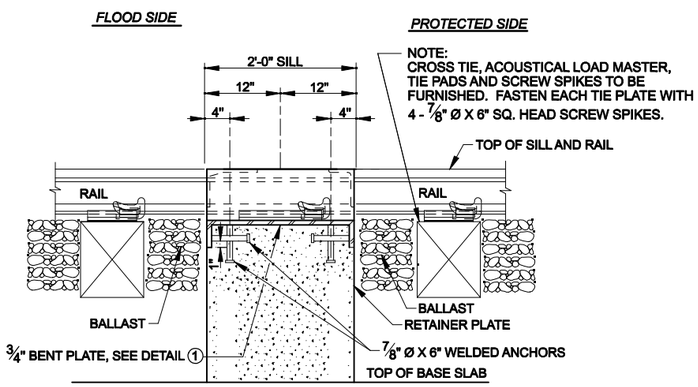
SECTION (D)

SCALE: 1" = 1'- 0"



SECTION (A)

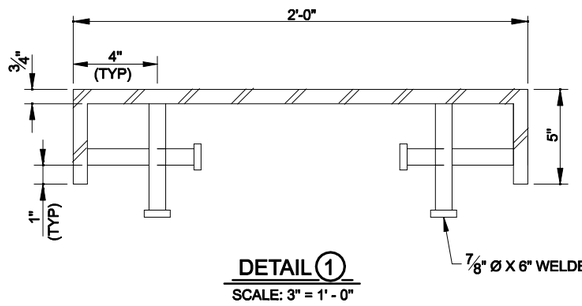
SCALE: 1" = 1' - 0"



RAIL ASSEMBLY

SCALE: 1" = 1' - 0"

SECTION (C)



DETAIL (1)

SCALE: 3" = 1' - 0"

SCALE:1/2"=1'
0 1' 2' 4'

SCALE: 1"=1'
0 1' 2'

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
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MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1" = 1'
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYP41.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

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~
RAILROAD DETAILS
CONCRETE MONOLITH RAIL DETAILS
~

SHEET IDENTIFICATION
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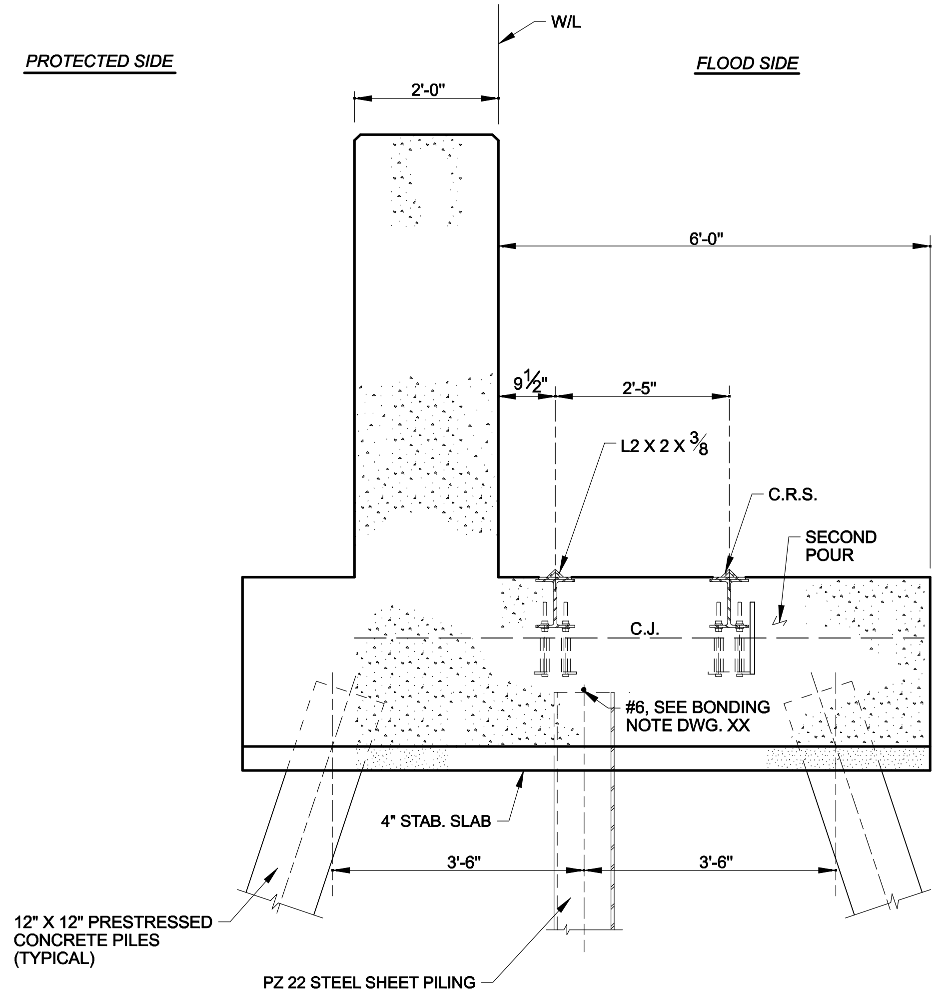
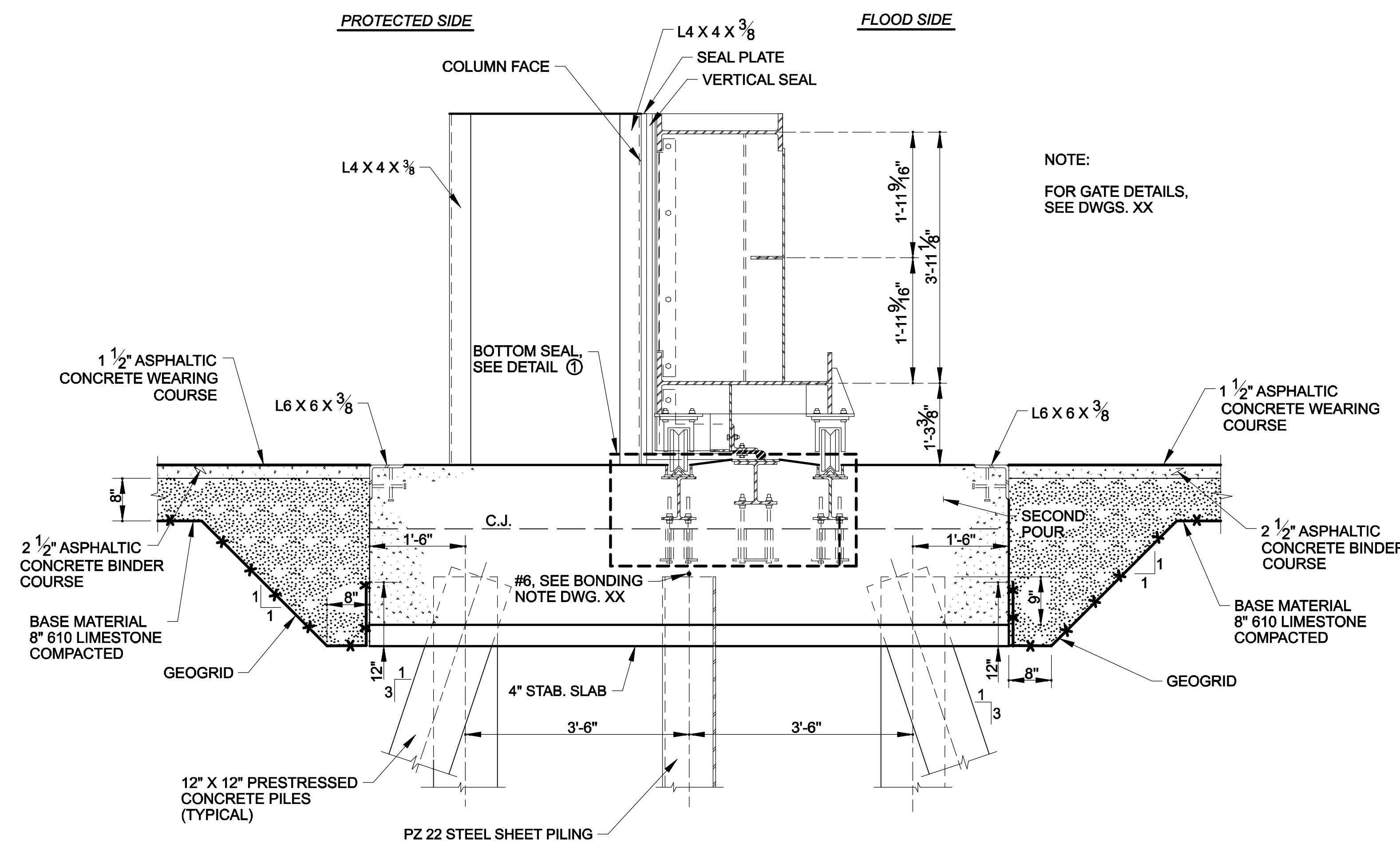


SECTION A X|X

STORAGE MONOLITH

SCALE: ¾ " = 1'-0"



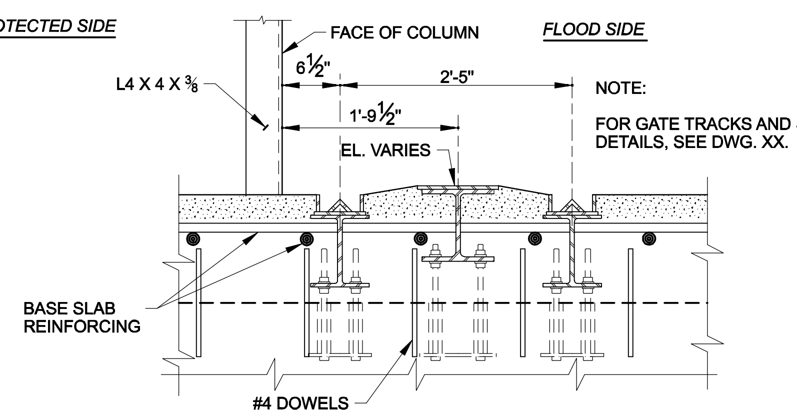
LEGEND

GEOGRID —✕—✕—✕—

SECTION B X|X

GATE MONOLITH

SCALE: ¾ " = 1'-0"

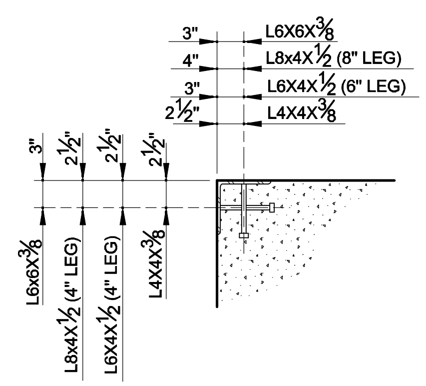


NOTE:

FOR GATE TRACKS AND SEAL PLATE SUPPORT DETAILS, SEE DWG. XX.

DETAIL 1

SCALE: 1" = 1' - 0"



AT COLUMNS:

L4X4X⅜ W/½"X6" WELDED ANCHORS, 12" O.C. STAGGERED

L6X4X½ W/½"X6" WELDED ANCHORS, 12" O.C. STAGGERED

L8X4X½ W/½"X6" WELDED ANCHORS, 12" O.C. STAGGERED

AT TOP OF SILL:

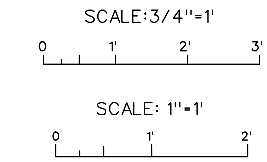
L6X6X⅜ W/½"X6" WELDED ANCHORS, 12" O.C. STAGGERED

NOTE:

ENTIRE ANGLE ASSEMBLY TO BE HOT-DIP GALVANIZED AFTER FABRICATION.

ANGLE DETAIL

N.T.S.



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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

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NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
PLOT SCALE: ¾" = 1'
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYP50.DGN
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS

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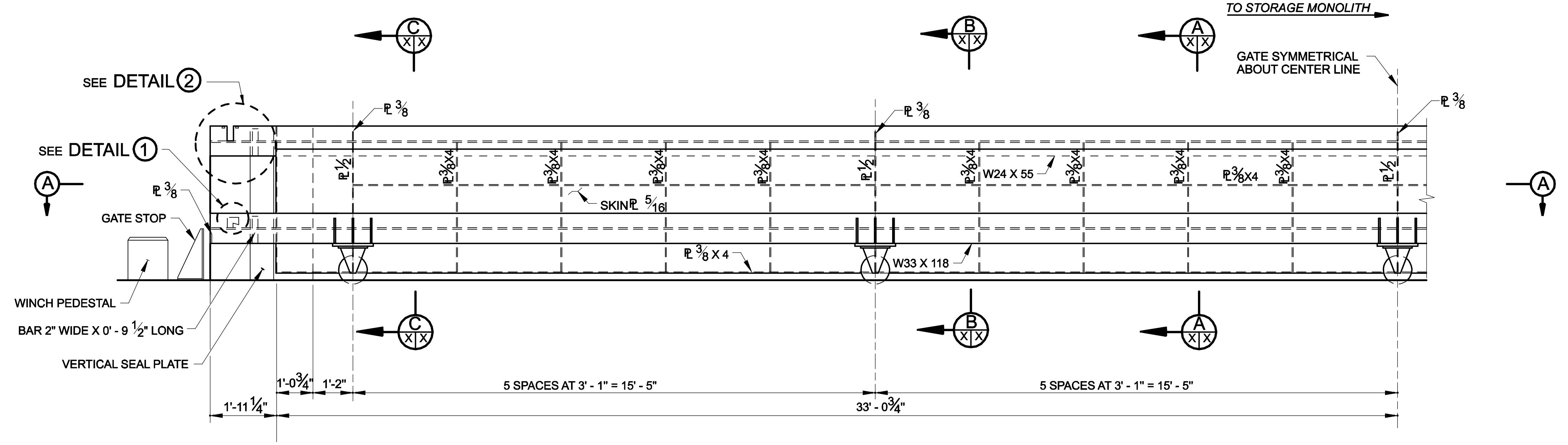
A/E TYPICAL DRAWINGS
~
ROLLER GATES
MASONRY
~

SHEET IDENTIFICATION
X-00

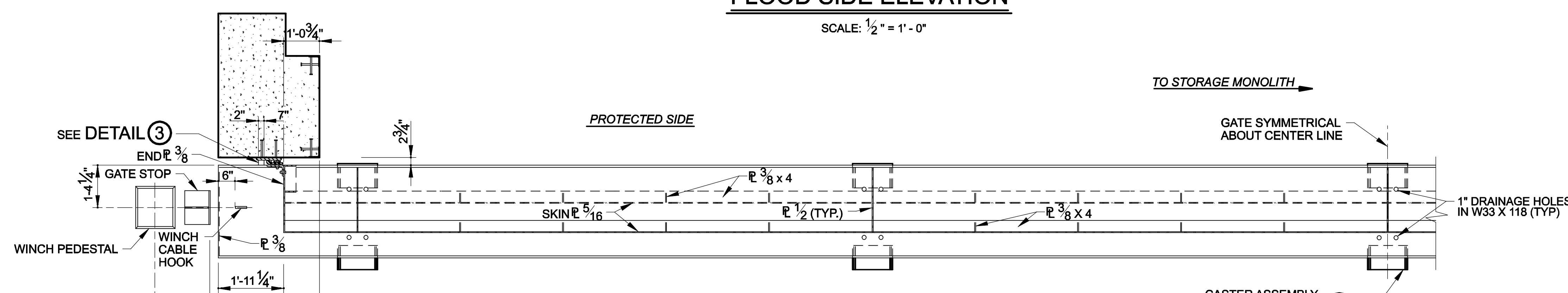
1 2 3 4 5

D C B A



FLOOD SIDE ELEVATION

SCALE: 1/2 " = 1' - 0"



NOTE:

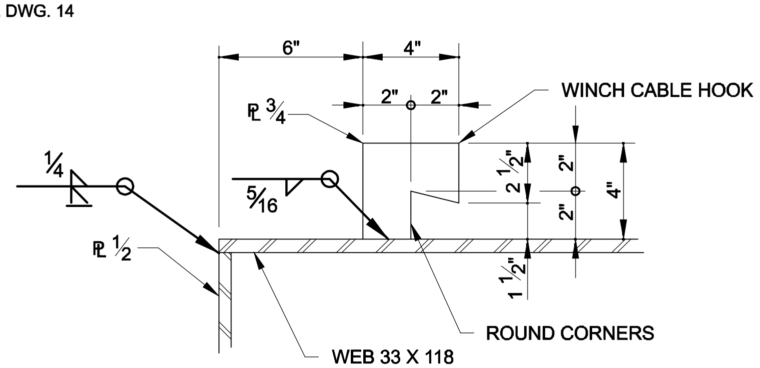
FOR WINCH PEDESTAL AND GATE STOP DETAILS, SEE DWG. 14

SECTION A

SCALE: 1/2 " = 1' - 0"

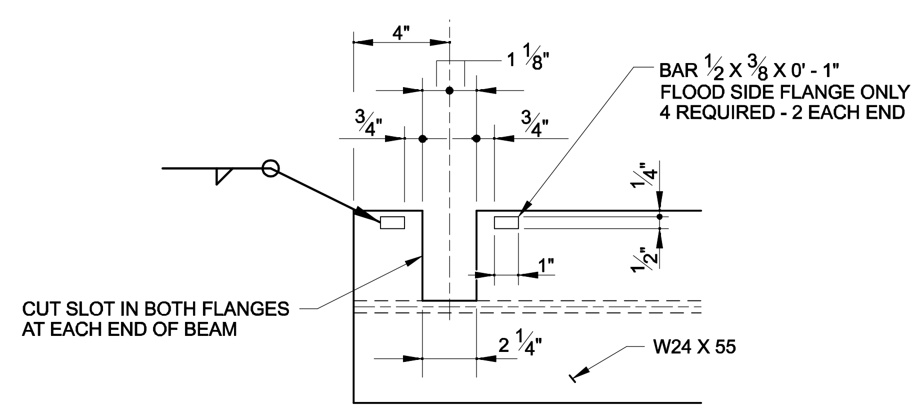
NOTE:

NO SPLICING OF THE W33 X 118 OR W24 X 55 BEAMS SHALL BE ALLOWED.



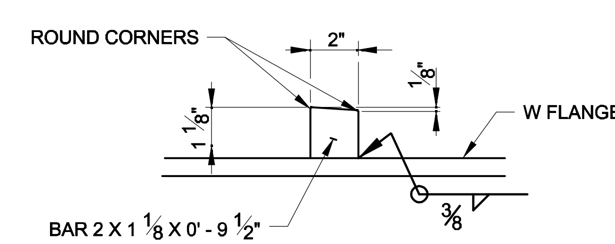
WINCH CABLE HOOK DETAIL 1

SCALE: 3" = 1' - 0"



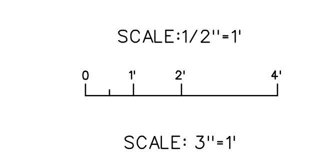
DETAIL 2

SCALE: 3" = 1' - 0"



DETAIL 3

SCALE: 3" = 1' - 0"



REFERENCE DRAWINGS

FOR BOTTOM ROLLER GATE SECTIONS, SEE DWG. XX
FOR BOTTOM ROLLER GATE SEAL SUPPORT DETAILS, SEE DWG. XX
FOR BOTTOM ROLLER GATE SEAL DETAILS, SEE DWG. XX
FOR CASTER ASSEMBLY AND DETAILS, SEE DWG. XX

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NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DATE: MAY 2008
DWN BY:
CKD BY:
SOLICITATION NO.:
SUBMITTED BY:
CONTRACT NO.:
PLOT SCALE: 1/2" = 1'
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP51.DGN

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
ROLLER GATES
ROLLER GATE ELEVATION
~

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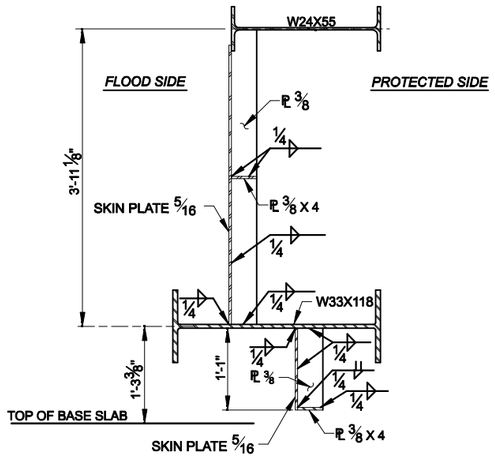
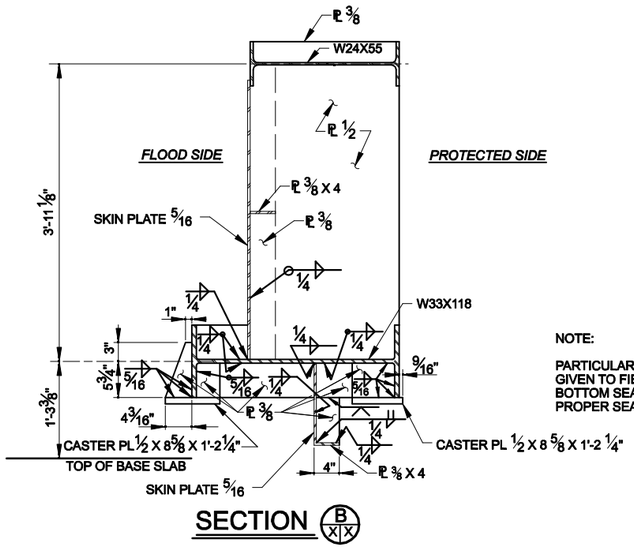


SECTION (A/XX)

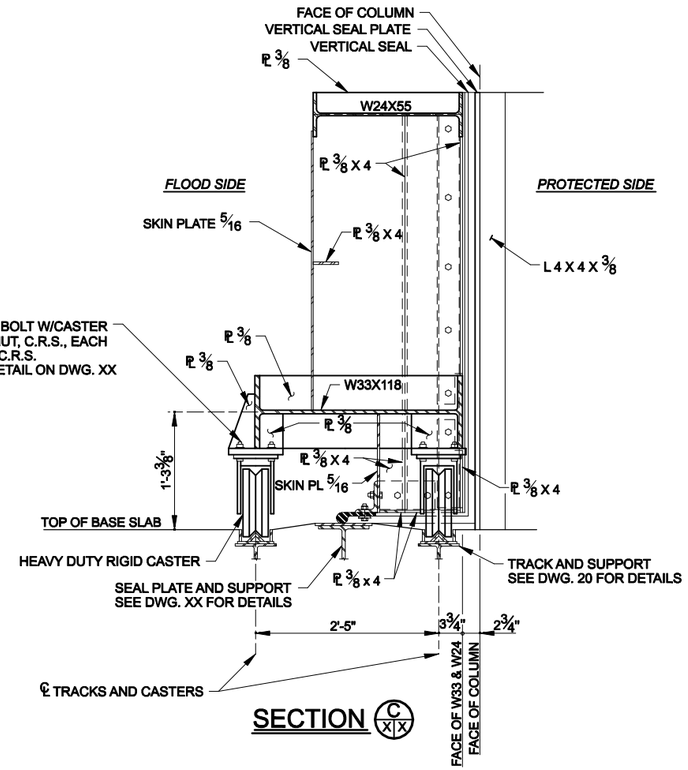


SECTION (B/XX)

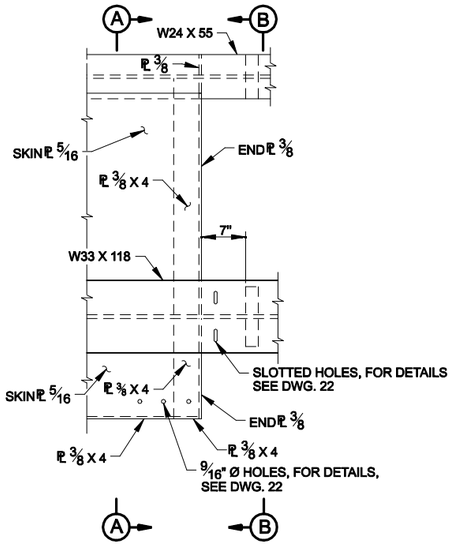
4, 5/8" Ø X 2 1/4" HEX HEAD BOLT W/CASTER BOLT WASHER AND HEX NUT, C.R.S., EACH CASTER ASSEMBLY. SEE C.R.S. CASTER BOLT WASHER DETAIL ON DWG. XX

NOTE:

PARTICULAR ATTENTION SHALL BE GIVEN TO FIELD ADJUSTMENT OF BOTTOM SEAL IN ORDER TO OBTAIN PROPER SEAL WITH SEAL PLATE.

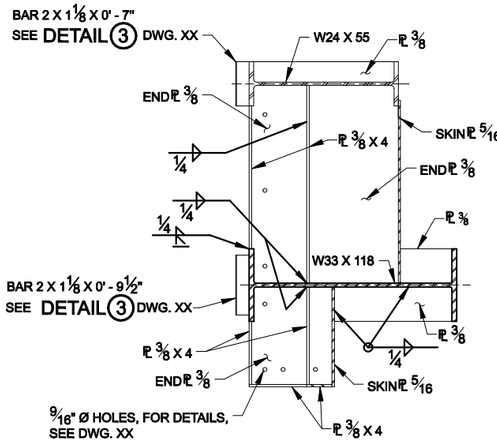


SECTION (C/XX)

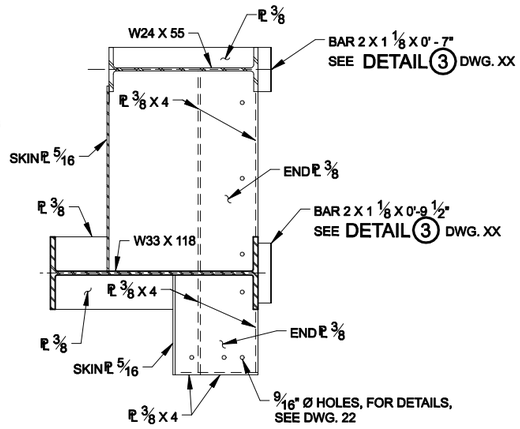


OTHER END-OPPOSITE HAND

FLOOD SIDE ELEVATION AT END OF GATE



SECTION (A)



SECTION (B)

REFERENCE DRAWINGS

FOR BOTTOM ROLLER GATE SEAL DETAILS, SEE DWG. XX.
FOR CASTER ASSEMBLY AND DETAILS, SEE DWG. XX.

SCALE: 1"=1'

0 1' 2'

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
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SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS
PLOT SCALE: 1" = 1"
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPICLDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

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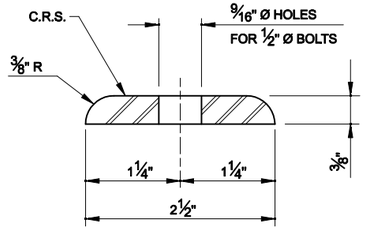
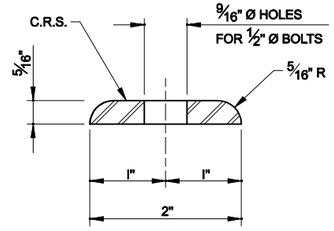
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
ROLLER GATES
ROLLER GATE DETAILS
-

SHEET IDENTIFICATION
X-00



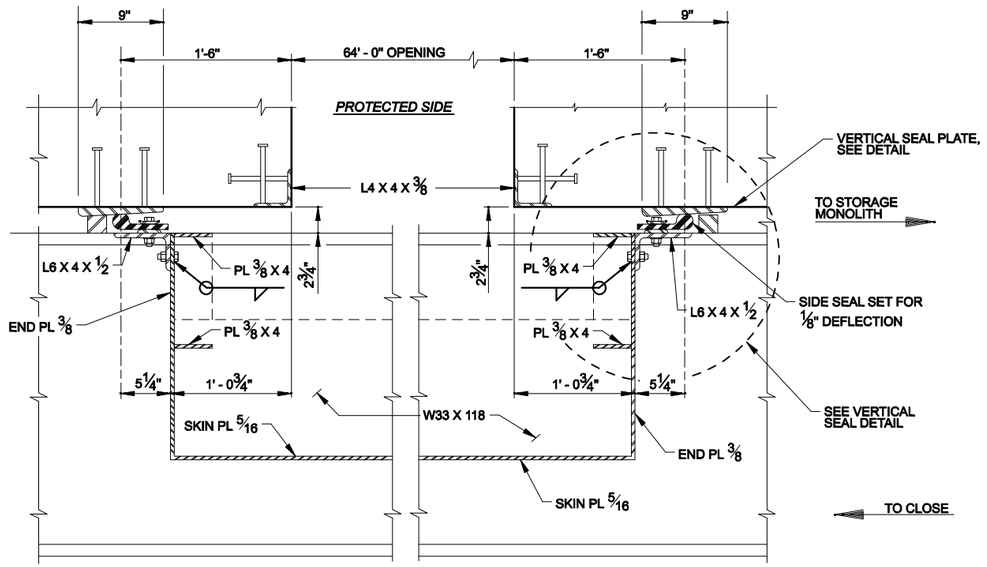
SEAL DEFLECTION BAR

SCALE: 1" = 1' - 0"



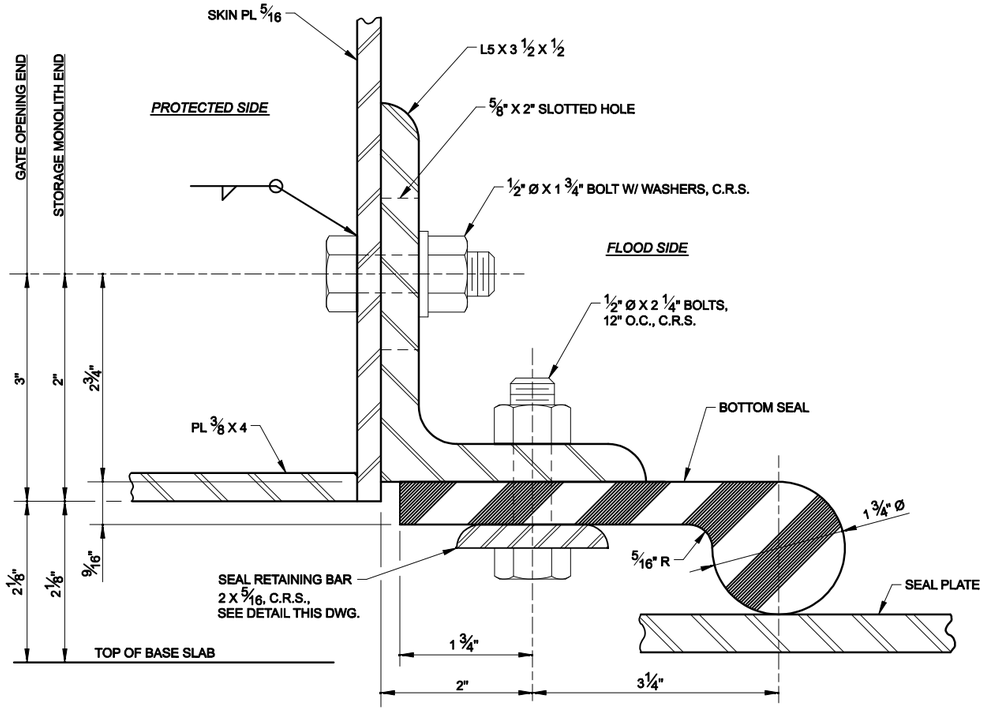
SEAL RETAINING BAR

SCALE: 1" = 1' - 0"



SECTION THRU ROLLER GATE

SCALE: 1 1/2" = 1' - 0"



TYPICAL SECTION THRU BOTTOM SEAL

SCALE: 1" = 1' - 0"

NOTE:

SET SEAL FOR 0" DEFLECTION. PARTICULAR ATTENTION SHALL BE GIVEN TO FIELD ADJUSTMENT OF BOTTOM SEAL IN ORDER TO OBTAIN A PERFECT SEAL WITH SEAL PLATE.

SCALE:1-1/2"=1'

0 6" 1' 2'

SCALE:1"=1"

0 1" 2"

US Army Corps of Engineers
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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
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DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1" = 1"
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYPRLDGN

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
ROLLER GATES
SEAL DETAILS
(1 OF 2)

SHEET IDENTIFICATION
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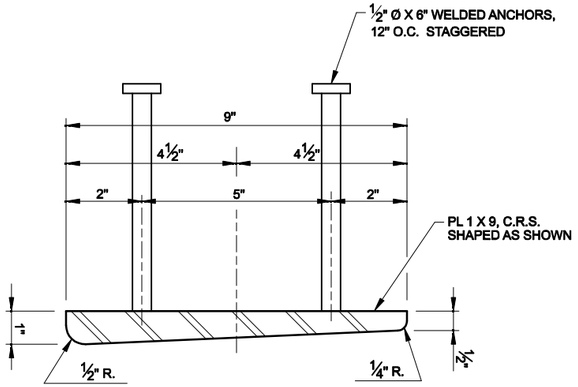
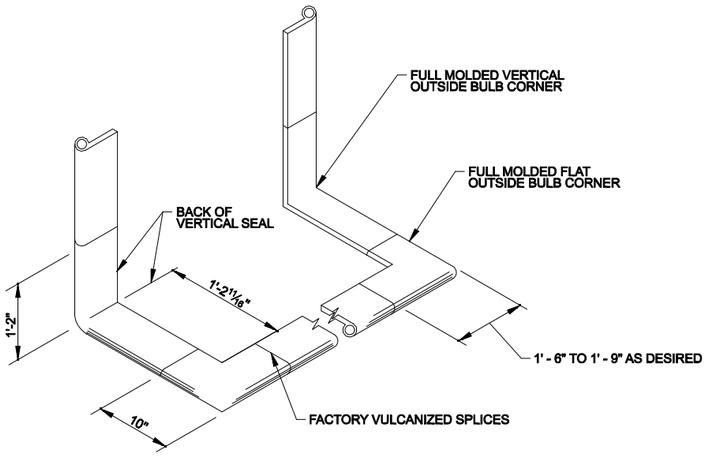


VERTICAL SEAL PLATE DETAIL

SCALE: 6" = 1' - 0"



TYPICAL GATE SEAL

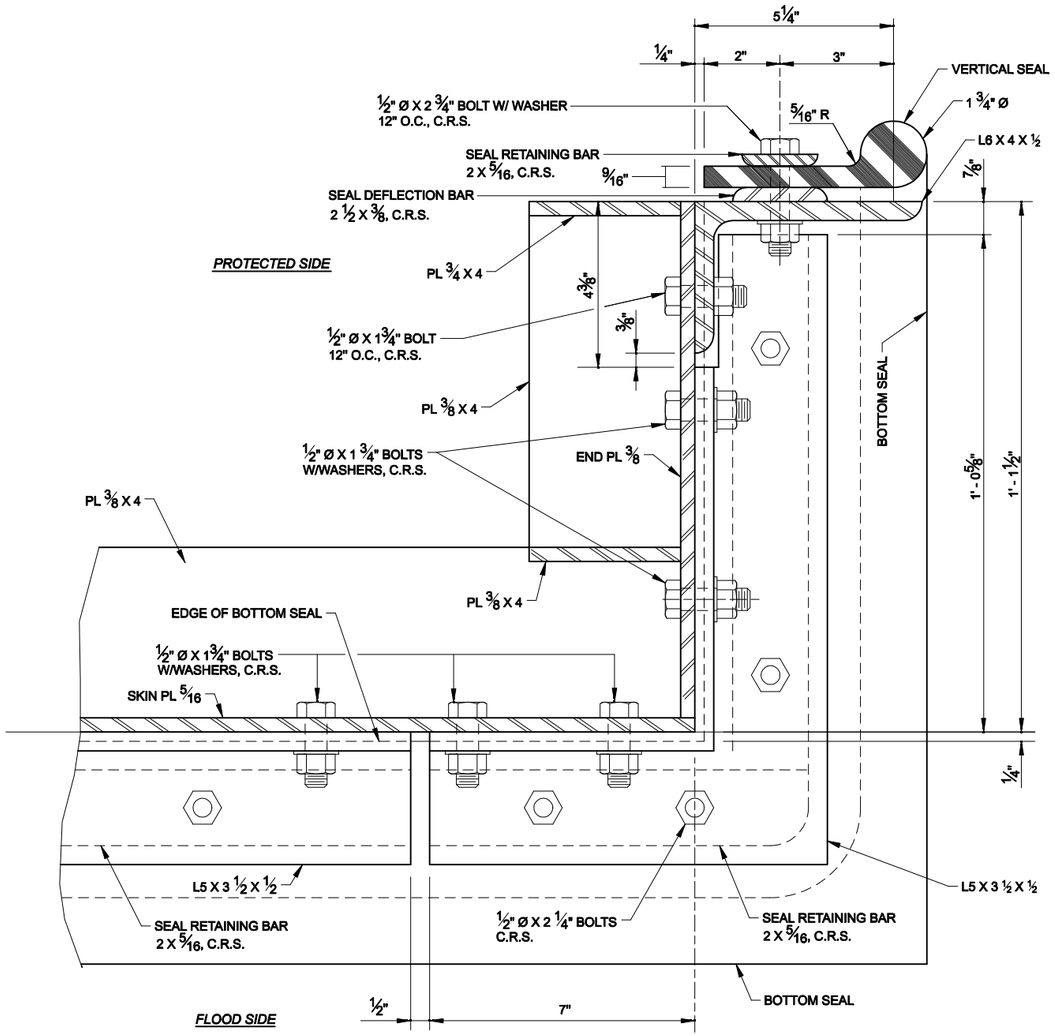
NOT TO SCALE

REFERENCE DRAWINGS

FOR BOTTOM ROLLER GATE SEAL SUPPORT DETAILS, SEE DWG. XX

NOTE:

1. ALL INDIVIDUAL 90° CORNER INTERSECTIONS WILL BE FULLY MOLDED.
2. ALL SPLICES WILL BE FACTORY MADE IN HEAVY STEEL PRESS TYPE MOLDS UNDER PRESSURE AND HEAT.
3. ALL SPLICE JOINTS MUST DEVELOP A STRENGTH OF AT LEAST 50% OF THE MINIMUM TENSILE STRENGTH REQUIRED OF THE RUBBER.



VERTICAL SEAL

PLAN AT END OF GATE BELOW W33X118

SCALE: 6" = 1' - 0"

SCALE: 6"=1'

0 3" 6" 9" 12"

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MARK	DESCRIPTION	DATE	APPR.

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NEW ORLEANS, LOUISIANA

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DWN BY:
SUBMITTED BY:
CKD BY:
PLOT SCALE:
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPRLDGN
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: AE-TYPICALS

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A/E TYPICAL DRAWINGS
-
ROLLER GATES
SEAL DETAILS
(2 OF 2)

SHEET IDENTIFICATION
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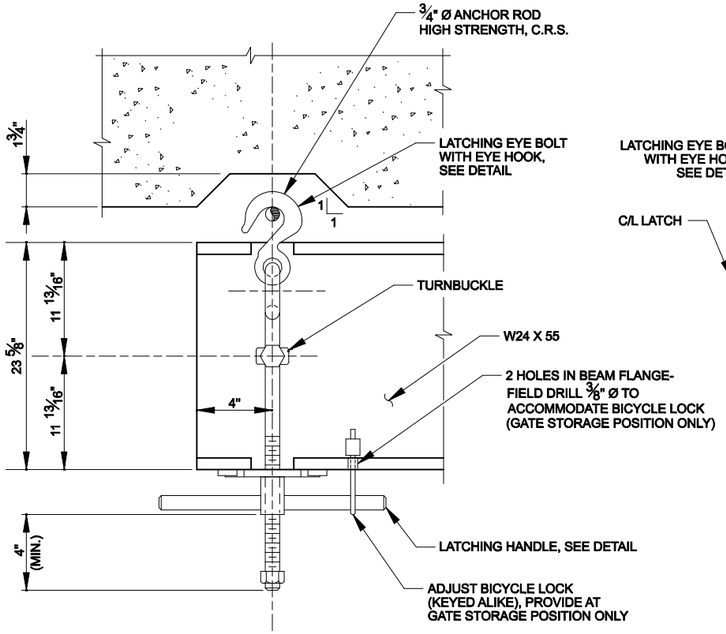
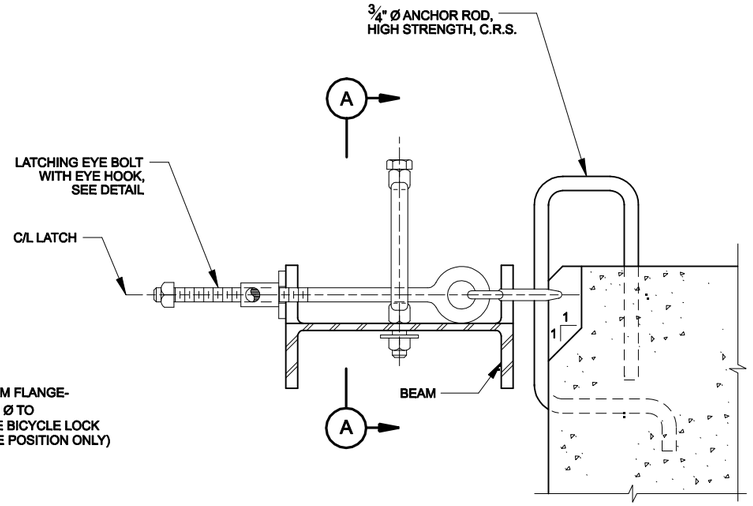
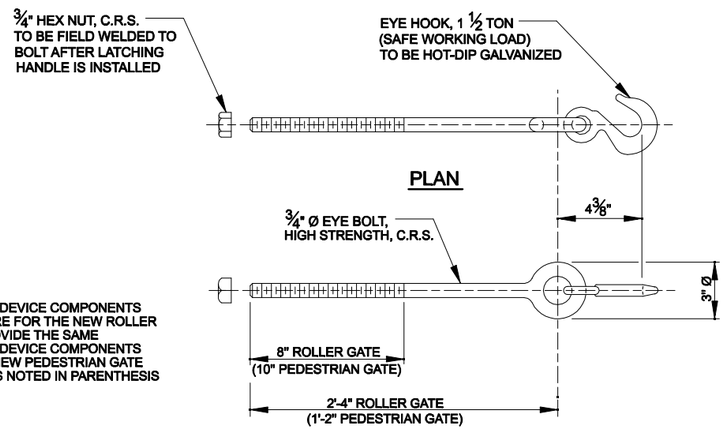


PLAN
SCALE: 3" = 1' - 0"



SECTION AT C/L OF LATCHING DEVICE



NOTE:

LATCHING DEVICE COMPONENTS SHOWN ARE FOR THE NEW ROLLER GATE, PROVIDE THE SAME LATCHING DEVICE COMPONENTS FOR THE NEW PEDESTRIAN GATE EXCEPT AS NOTED IN PARENTHESIS

ELEVATION

LATCHING EYE BOLT W/ EYE HOOK

SCALE: 3" = 1' - 0"

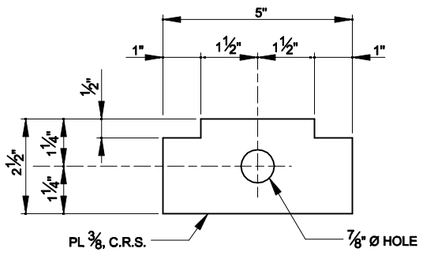
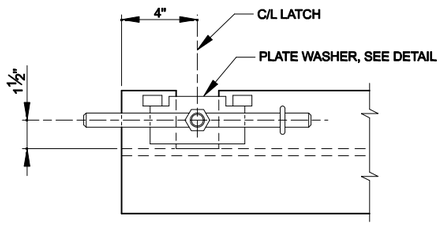


PLATE WASHER

SCALE: ½" = 1' - 0"

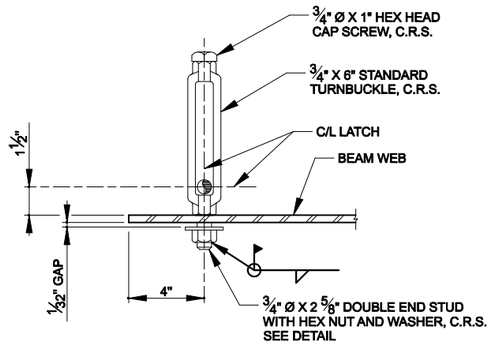


ELEVATION

DETAIL (1)

LATCHING DEVICE

SCALE: 3" = 1' - 0"



SECTION (A)

SCALE:1/2"=1'

0 1' 2' 4'

SCALE: 3"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

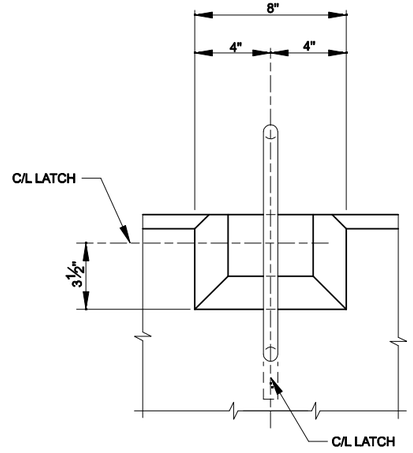
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

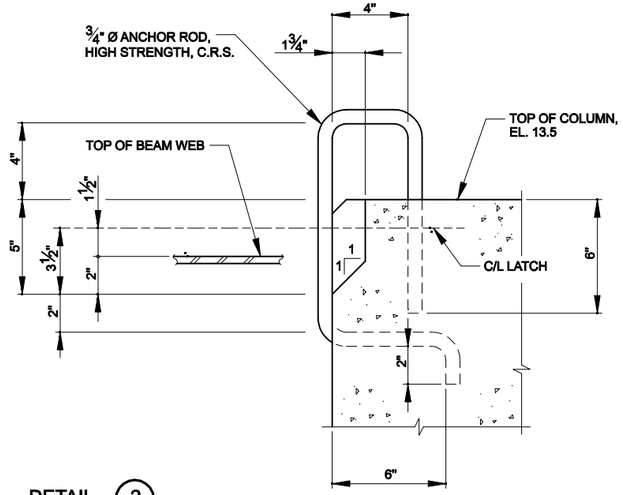
DESIGNED BY: USACE - NEW ORLEANS
DRWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1" = 1'
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP54.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
ROLLER GATES
LATCHING DETAILS
(1 OF 2)

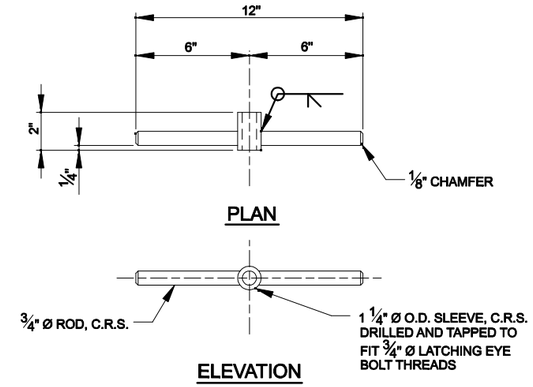
SHEET IDENTIFICATION
X-00





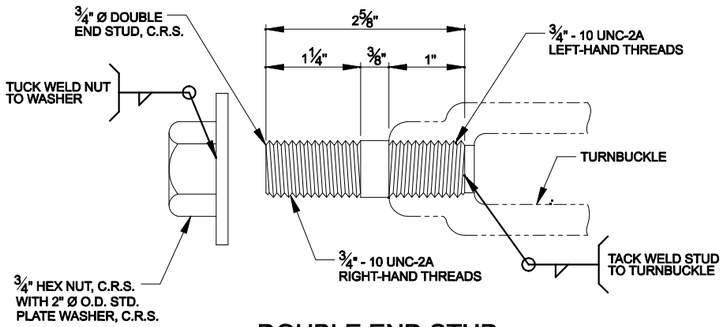
DETAIL (2)

SCALE: 3" = 1' - 0"



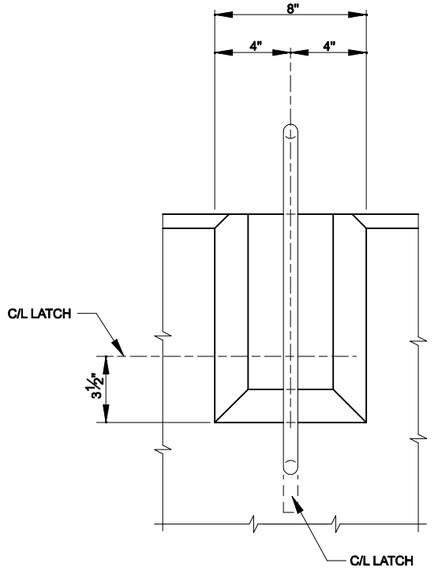
LATCHING HANDLE

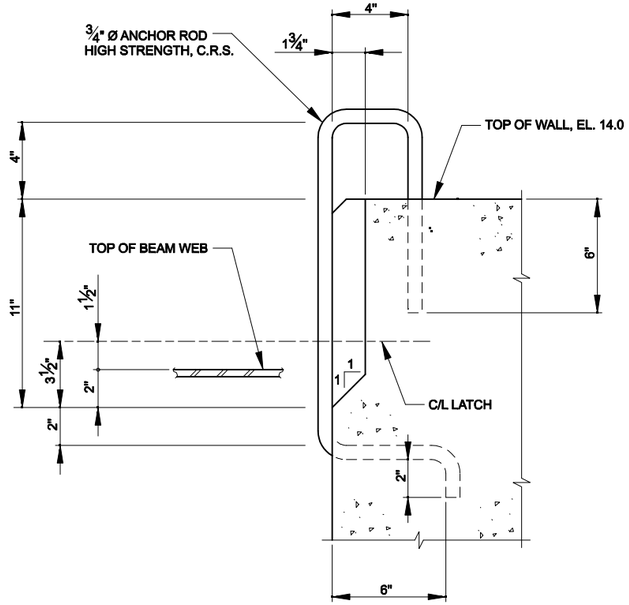
SCALE: ¼ " = 1' - 0"



DOUBLE END STUD

SCALE: 1" = 1' - 0"





DETAIL (3)

SCALE: 3" = 1' - 0"

SCALE:1/4"=1'
0 2' 4' 8'

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE:1"=1"
0 1" 2"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

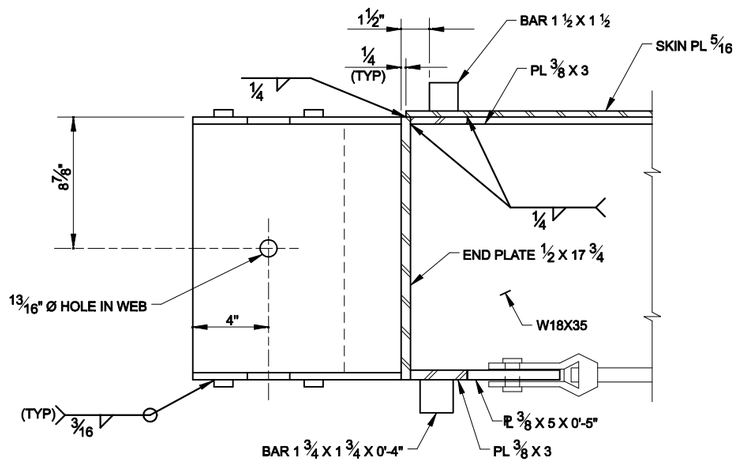
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

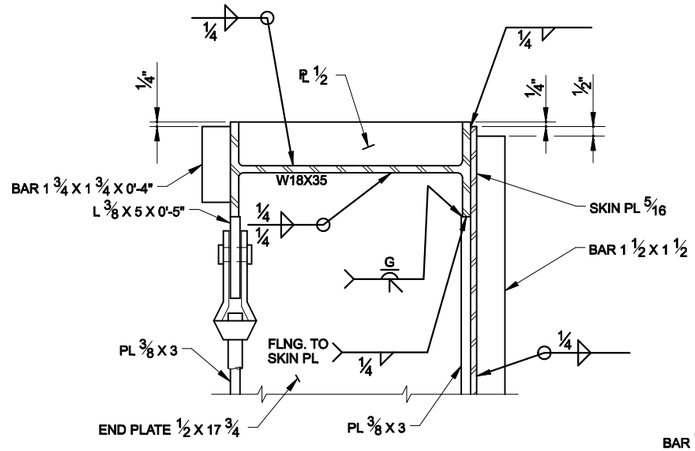
DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYPXLDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
ROLLER GATES
LATCHING DETAILS
(2 OF 2)

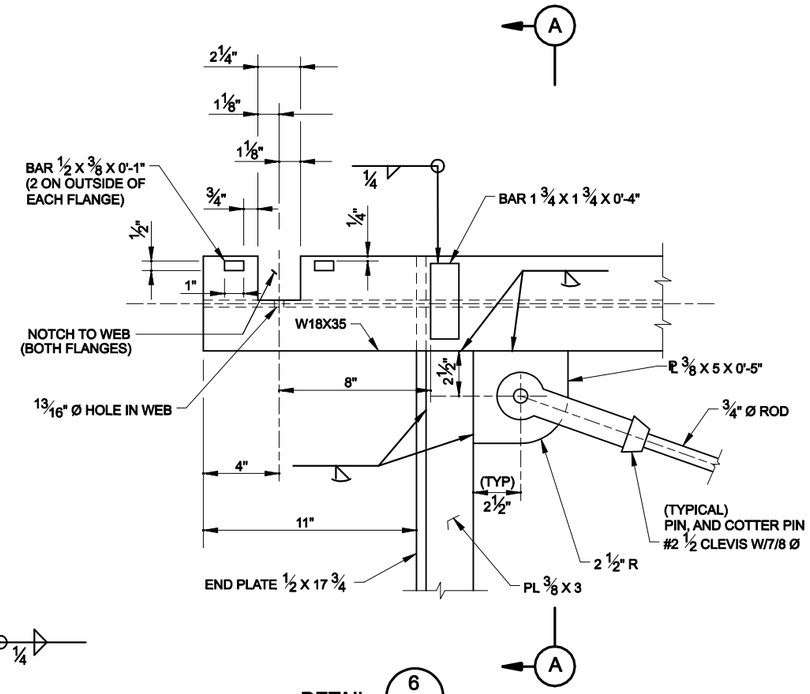
SHEET IDENTIFICATION
X-00



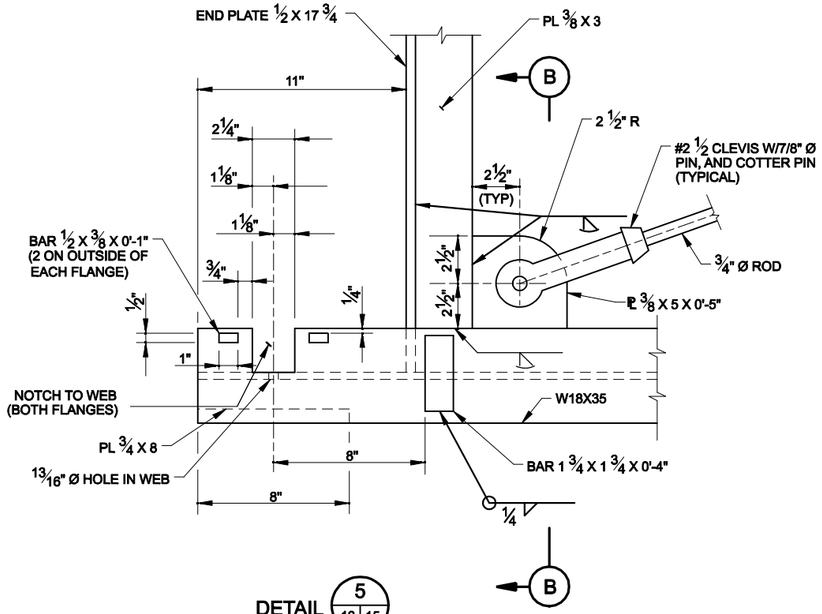


SECTION (A)

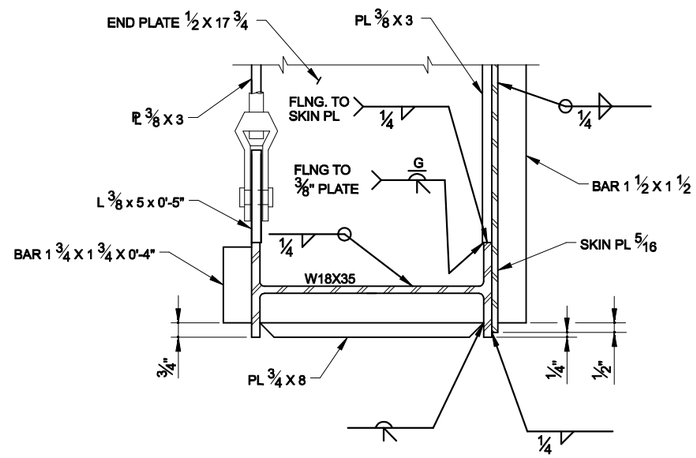
NOTE:
WELDS SHOWN ARE TYPICAL FOR SIMILAR JOINTS.



DETAIL 6 (13 | 15)



DETAIL 5 (13 | 15)



SECTION (B)

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

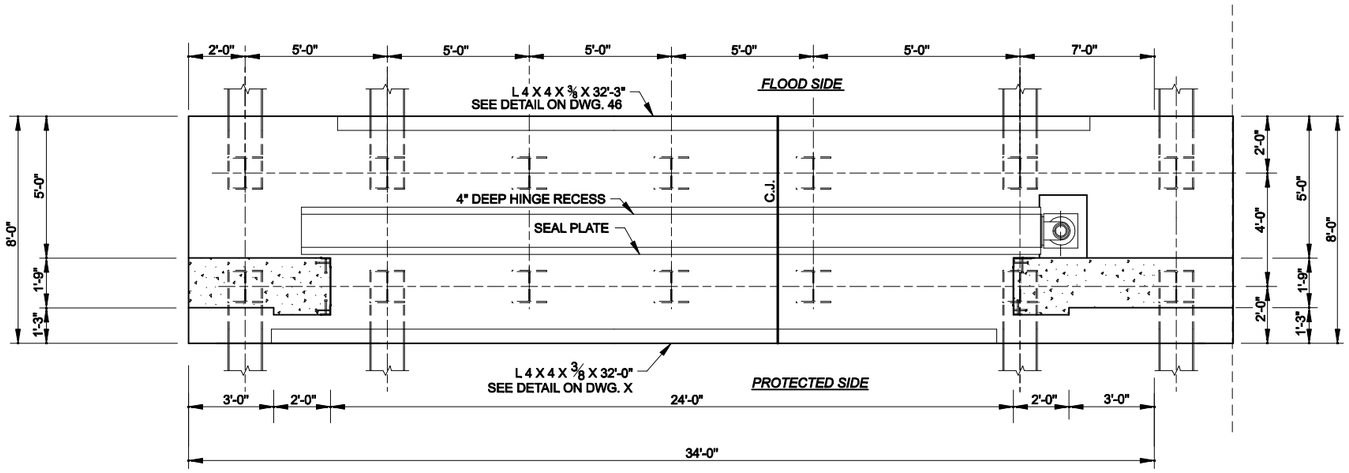
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS	DWN BY:	SUBMITTED BY:	PLOT SCALE: 1" = 1'
CKD BY:			PLOT DATE:
DATE: MAY 2008	SOLICITATION NO.:	CONTRACT NO.:	FILE NUMBER: A/E TYPICALS
SIZE: ANSI D	FILE NAME: AE-TYP05.DGN		

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

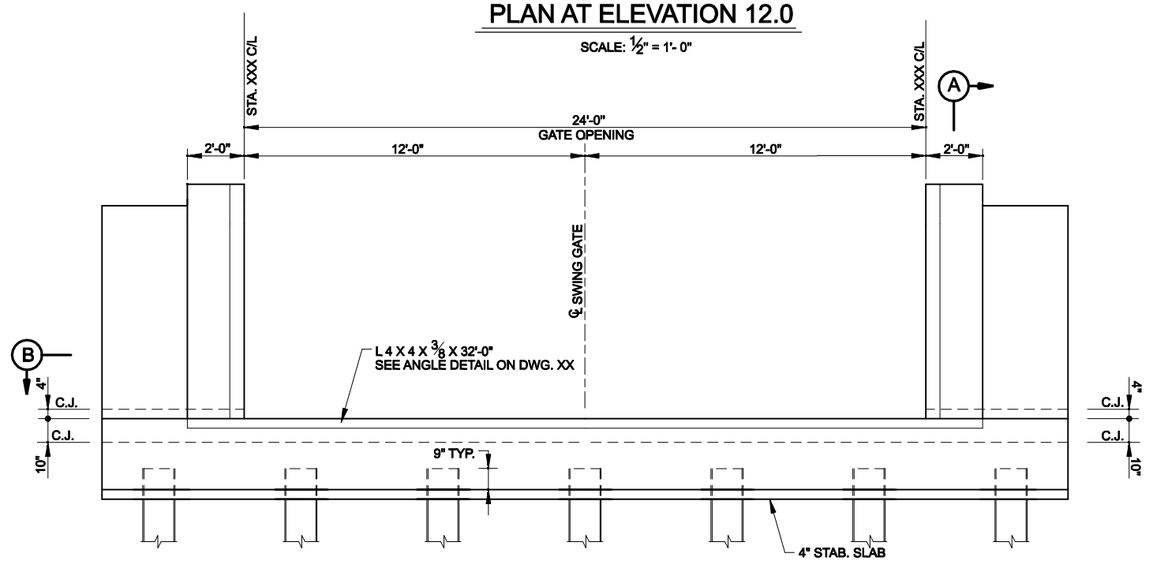
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
ROLLER GATES
CORNER DETAILS
-

SHEET IDENTIFICATION
X-00



PLAN AT ELEVATION 12.0

SCALE: ½" = 1'- 0"

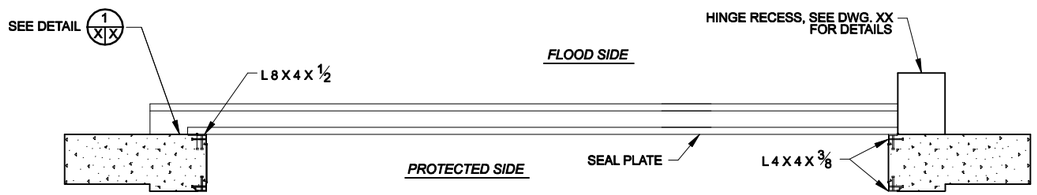


PROTECTED SIDE ELEVATION

SCALE: ½" = 1'- 0"

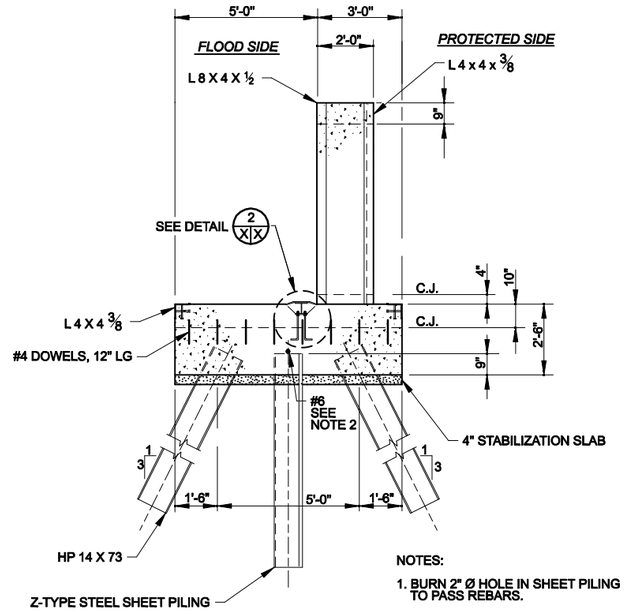
NOTE:

#4 DOWELS NOT SHOWN FOR CLARITY.



SECTION (B)

SCALE: ½" = 1'- 0"



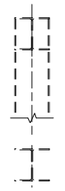
SECTION (A)

SCALE: ½" = 1'- 0"

NOTES:

1. BURN 2" Ø HOLE IN SHEET PILING TO PASS REBARS.
2. SEE BONDING NOTE ON DWG. X REGARDING THE #6 BAR ON TOP OF THE STEEL SHEET PILING.

PILE LEGEND



BATTER PILE
ALL PILES 3V ON 1H

VERTICAL PILE

SCALE: 3/8" = 1'

0 1' 3' 6'

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

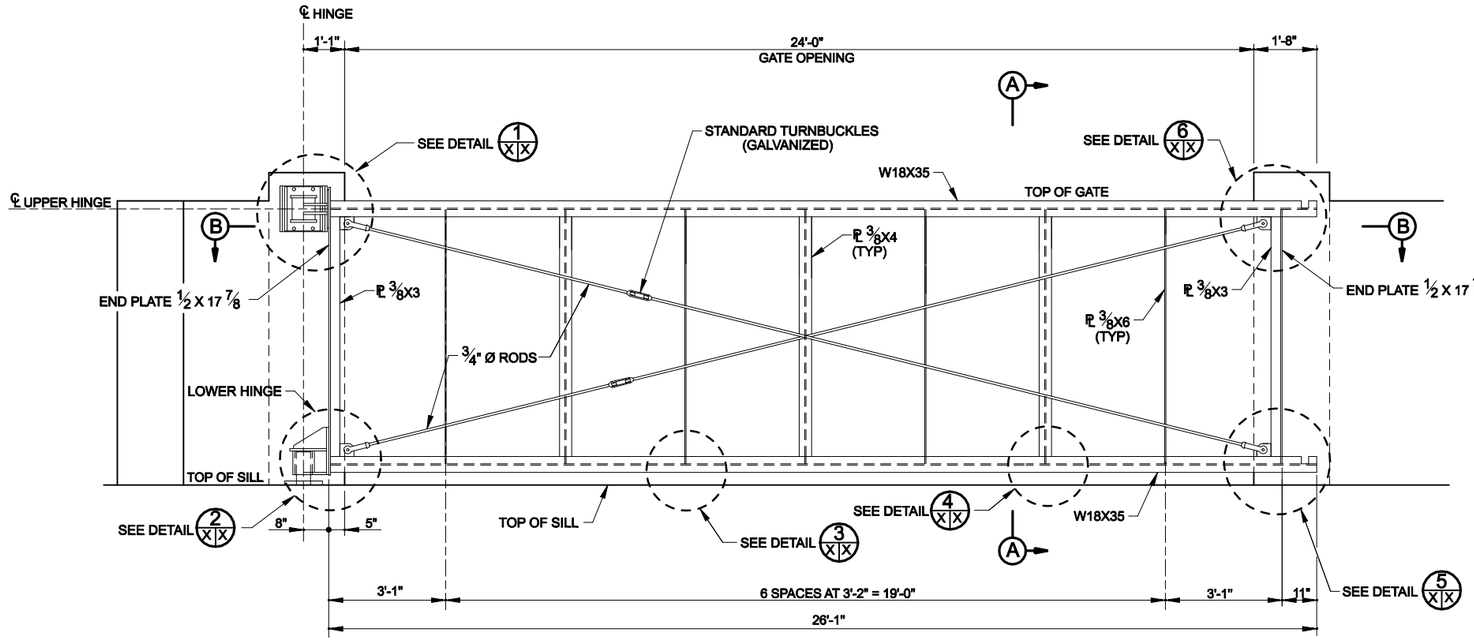
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
CHKD BY:
PLOT SCALE: 1" = 1'
PLOT DATE:
SIZE: ANSI D
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYPWLDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

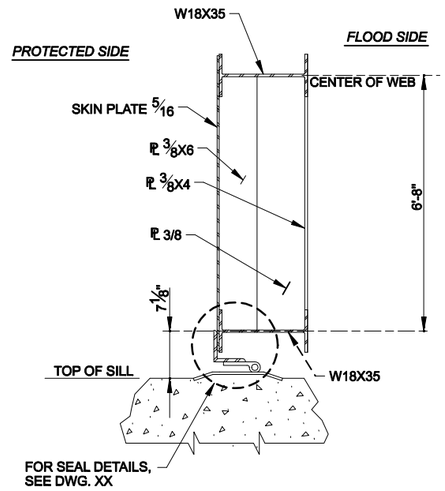
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
MASONRY
-

SHEET IDENTIFICATION
X-00



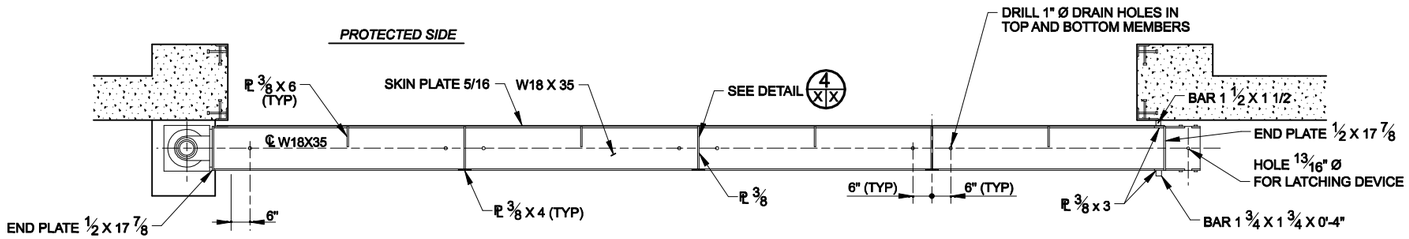
FLOOD SIDE ELEVATION

SCALE: ¾" = 1'- 0"



SECTION (A)

NTS



SECTION (B)

SCALE: ¾" = 1'- 0"

SCALE:1/2"=1'

0 1' 2' 4'

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

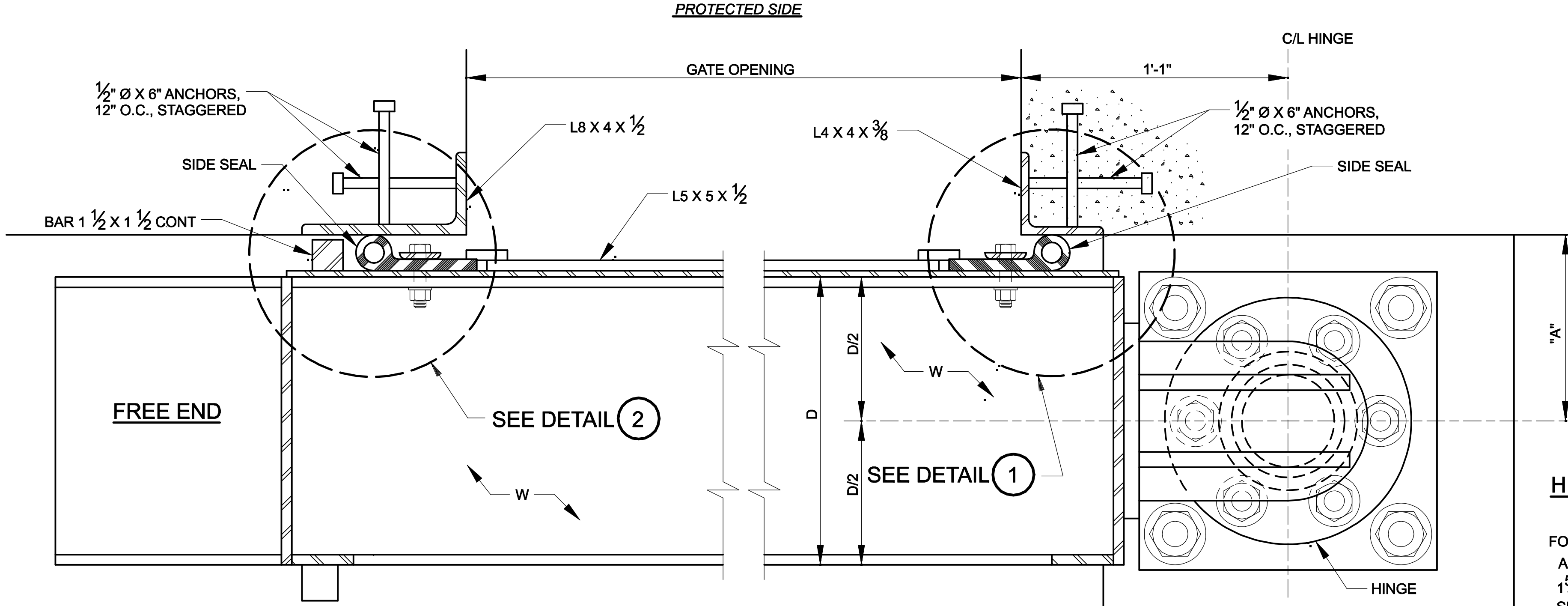
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1/2" = 1'-0"
PLOT DATE:
FILE NUMBER: A/E-TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP01.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
SWING GATE ELEVATION
-

SHEET IDENTIFICATION
X-00



TYPICAL SECTION THRU SWING GATE

SCALE: 3" = 1' - 0"

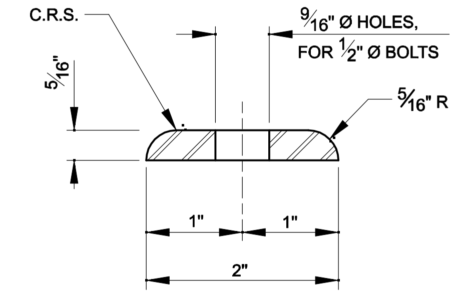
HINGE END

FORMULA:
ADD
1⅝" (SEAL SET FOR ⅛" COMPRESSION)
SKIN PL THICKNESS
D/2 (HALF OF BEAM DEPTH)

= DIMENSION "A"

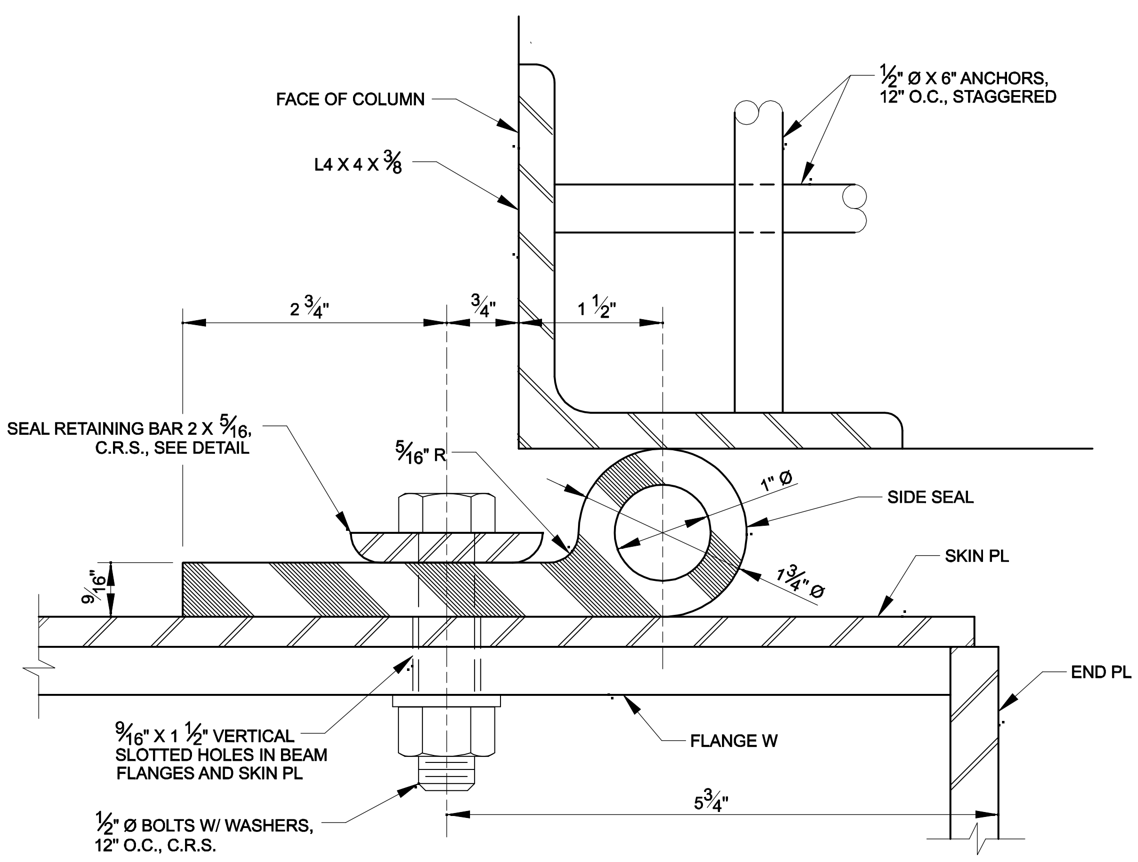
SCHEDULE

GATE	DIMENSIONS	
	"A"	"B"



SEAL RETAINING BAR

SCALE: 1" = 1' - 0"

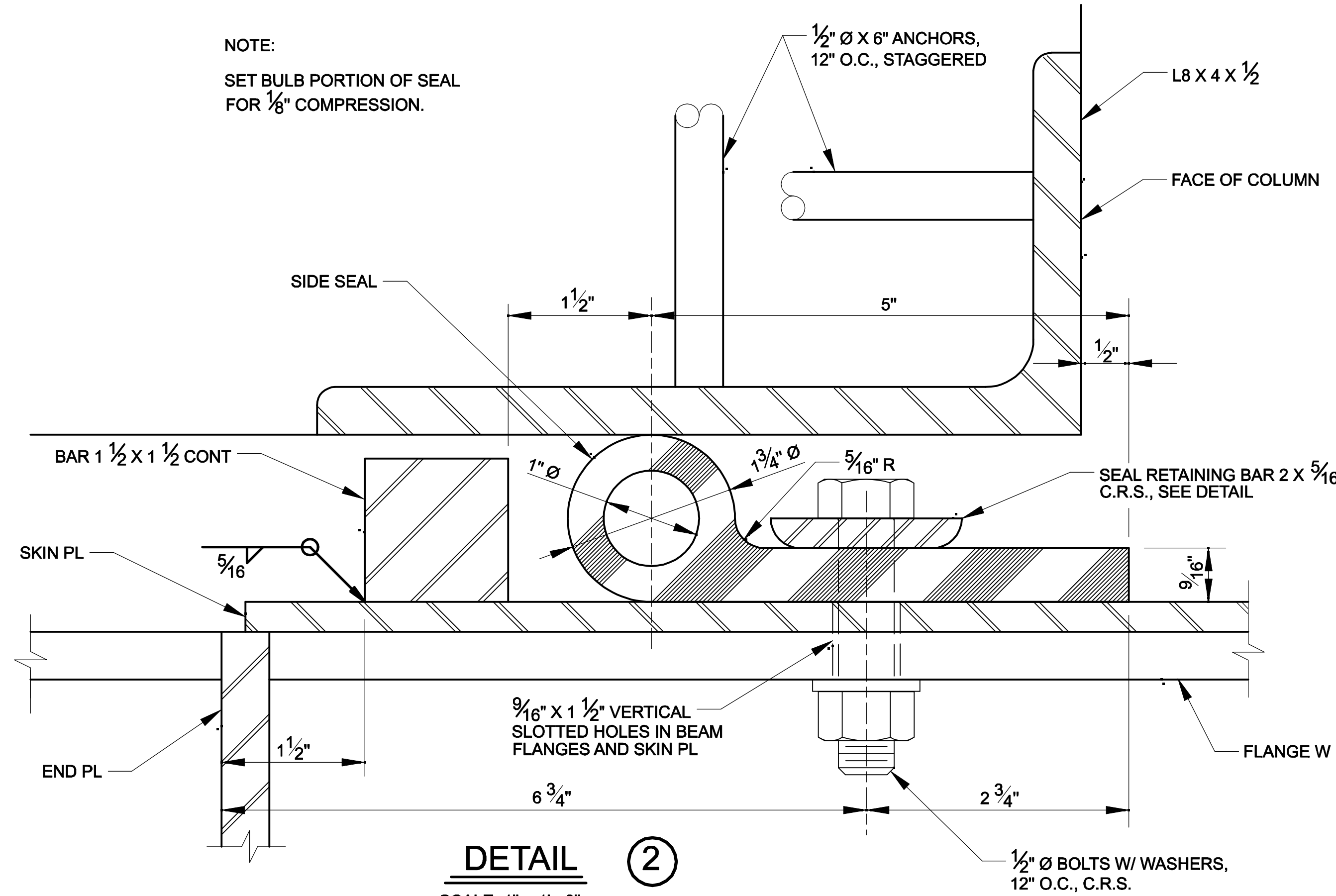


DETAIL 1

SCALE: 1" = 1' - 0"

NOTE:

SET BULB PORTION OF SEAL FOR ⅛" COMPRESSION.



DETAIL 2

SCALE: 1" = 1' - 0"

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE: 1"=1"
0 1" 2"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

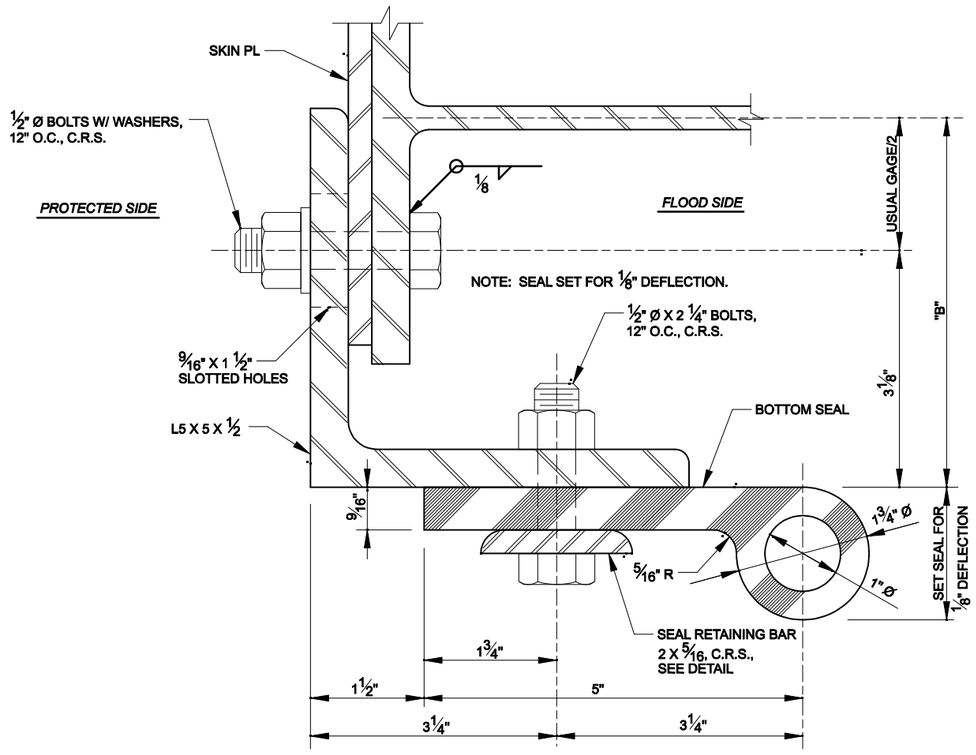
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
PLOT SCALE: 12" = 1'
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYP62.DGN
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS

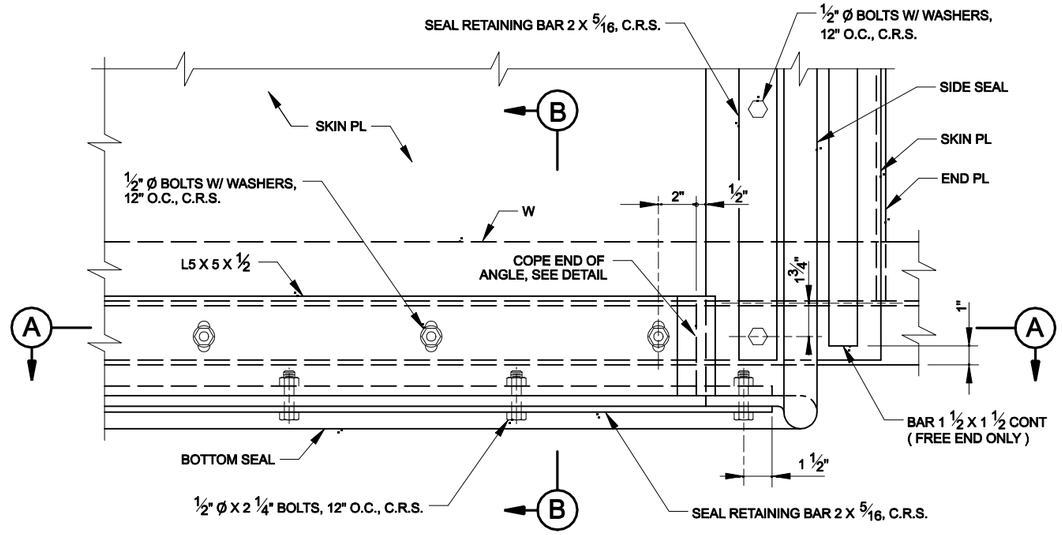
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
SWING GATES
SEAL DETAILS
(1 OF 2)

SHEET IDENTIFICATION
X-00



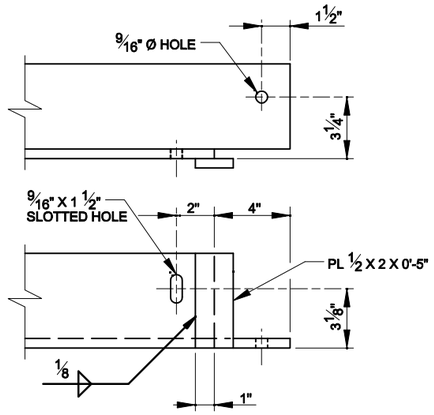
SECTION (B)

SCALE: 1" = 1' - 0"



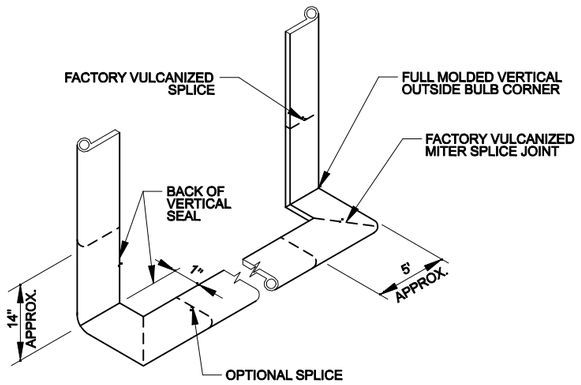
END ELEVATION - PROTECTED SIDE

SCALE: 3" = 1' - 0"



END OF L5 X 5 X 1 / 2

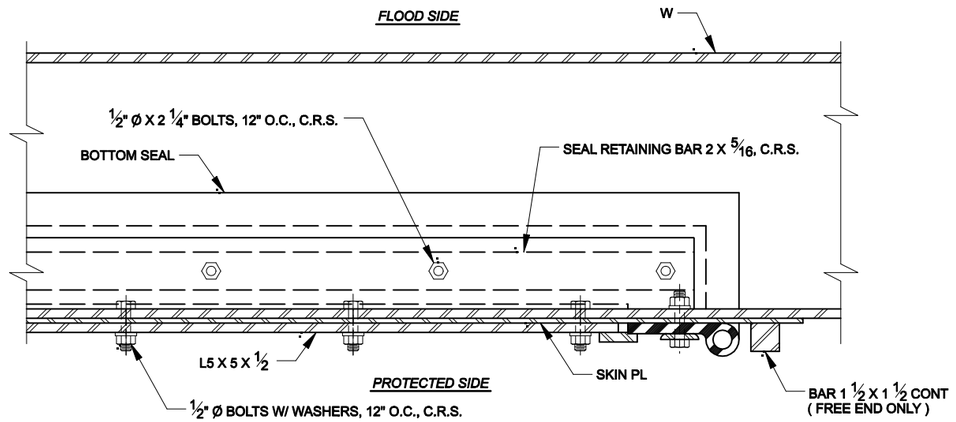
SCALE: 3" = 1' - 0"



CORNER DETAIL, TYPICAL BOTH SIDES

TYPICAL GATE SEAL

NTS



SECTION (A)

NOTES:

1. FOR GENERAL NOTES, SEE DWG. X.
2. ALL SPLICES WILL BE FACTORY MADE IN HEAVY STEEL PRESS TYPE MOLDS UNDER PRESSURE AD HEAT.
3. ALL SPLICE JOINTS MUST DEVELOP STRENGTH OF AT LEAST 50% OF THE MINIMUM TENSILE STRENGTH REQUIRED OF THE RUBBER.
4. SEAL CLAMP ANGLES SHALL BE PAINTED ON ALL SIDES PRIOR TO ASSEMBLY.
5 AFTER ASSEMBLY AND SEAL ADJUSTMENTS ARE MADE, ALL GAPS IN SEALS AND SEAL SUPPORTS SHALL BE SEALED WITH A SILICONE RUBBER SEALANT TO PROVIDE WATERTIGHT JOINTS.

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE:1"=1"
0 1" 2"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

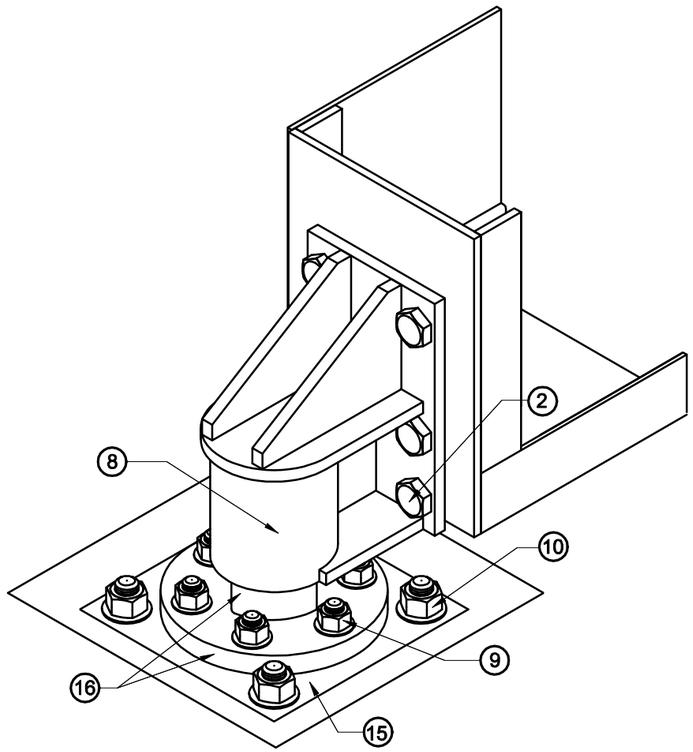
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1" = 1"
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: A/E-TYPEDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

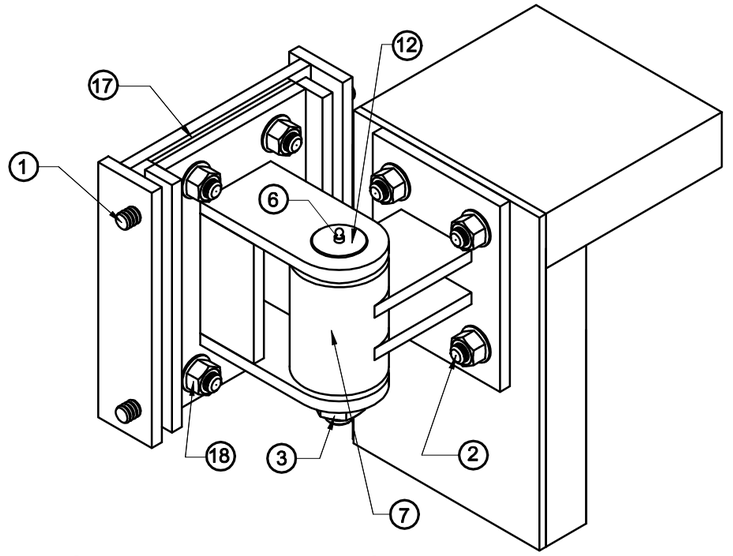
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
SEAL DETAILS
(2 OF 2)

SHEET IDENTIFICATION
X-00



STANDARD LOWER HINGE

SCALE: 3" = 1' - 0"



STANDARD UPPER HINGE

SCALE: 3" = 1' - 0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. 2
FOR PLAN AND PROFILE, SEE DWGS.
FOR SWING GATE MONOLITH DETAILS, SEE DWG.
FOR SWING GATE DETAILS, SEE DWGS.
FOR SWING GATE HINGE DETAILS, SEE DWGS.

MARK NO.	QUANTITY	DESCRIPTION	MATERIAL
PARTS NOT DETAILED			
1	4	SET SCREW - HEX SOCKET, 1" Ø X 2 1/2" LONG, CLASS 3A, FLAT POINT	FED. SPEC. FF-S-200A(2) C.R.S., ALLOY 304
2	10	1" Ø X 3" LONG HEX BOLT WITH NUT AND FLAT WASHER 1 1/16" I.D. X 2 1/2"O.D. X 5/32" THK.	ASTM F593, GROUP 2, ALLOY 316, CONDITION CW
3	1	NUT, HEAVY HEX 1 1/2"-6 UNC-2B, W/ FLAT WASHER 1 5/8" I.D. X 3 1/2"O.D. X 3/16" THK.	ASTM F594, GROUP 2, ALLOY 316, CONDITION CW
4	2	GREASE SEAL, GARLOCK KLOZURE NO. 63 - 2176 OR EQUAL	COMMERCIAL GRADE
5	1	GREASE SEAL, GARLOCK KLOZURE NO. 53 - 2753 OR EQUAL	COMMERCIAL GRADE
6	2	GREASE FITTING, 1/8" N.P.T. TYPE	COMMERCIAL GRADE
7	1	MECHANICAL TUBING, 5 1/4" O.D. X 4" I.D. X 7" LONG MACHINED FOR CLASS 6 FIT BETWEEN I.D. OF TUBING AND O.D. OF MK-11 BUSHING	A-513, TYPE 6
8	1	MECHANICAL TUBING, 6 3/4" O.D. X 5 1/2" I.D. X 7 1/2" LONG MACHINED FOR CLASS 6 FIT BETWEEN I.D. OF TUBING AND O.D. OF MK-14 BUSHING	A-513, TYPE 6
9	6	1" Ø X 4" LONG HEX BOLT WITH NUT AND FLAT WASHER 1 1/16" I.D. X 2 1/2" O.D. X 5/32" THK.	SAME AS MARK NO. 2

MARK NO.	QUANTITY	DESCRIPTION		MATERIAL
-PARTS DETAILED-				
10	4	1 1/4" Ø X 2'-0" LONG HEX BOLT WITH DBL. NUT AND FLAT WASHERS		SAME AS MARK NO. 2
11	1	BUSHING, 4" O.D. X 3" I.D. X 6" LONG		B-22, NO.937
12	1	UPPER HINGE SHAFT, 2.99" O.D. X 11 1/2" LONG		A-276, TYPE 431
13	1	THRUST WASHER, 5 7/16" Ø WITH 1/2" HOLE		B-22, NO.937
14	1	BUSHING, 5 1/2" O.D. X 4 1/2" I.D. X 6" LONG		B-22, NO.937
15	1	BASE PLATE 1 1/4" X 14 1/2 X 1'-2 1/2"		STEEL A-36
16	1	BEARING	PLATE 1 1/4 X 12" Ø	A-276, TYPE 304
		PEDESTAL	SHAFT 4 1/2" Ø X 10 1/2" LONG	A 276, TYPE 431
17	AS REQ'D	SHIM PLATE 1/8 X 5 X 0'-12"		STEEL A-36
18	4	1" Ø X 12" LONG HEX BOLT WITH NUT & WASHER		SAME AS MARK NO. 2
19	2	PLATE 3/8 X 3 X 0'-9"		STEEL A-36
20	4	PLATE 3/8 X 4 X 0'-4"		STEEL A-36

NOTE: QUANTITIES SHOWN ARE FOR ONE COMPLETE SWING GATE.

SCALE: 3"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

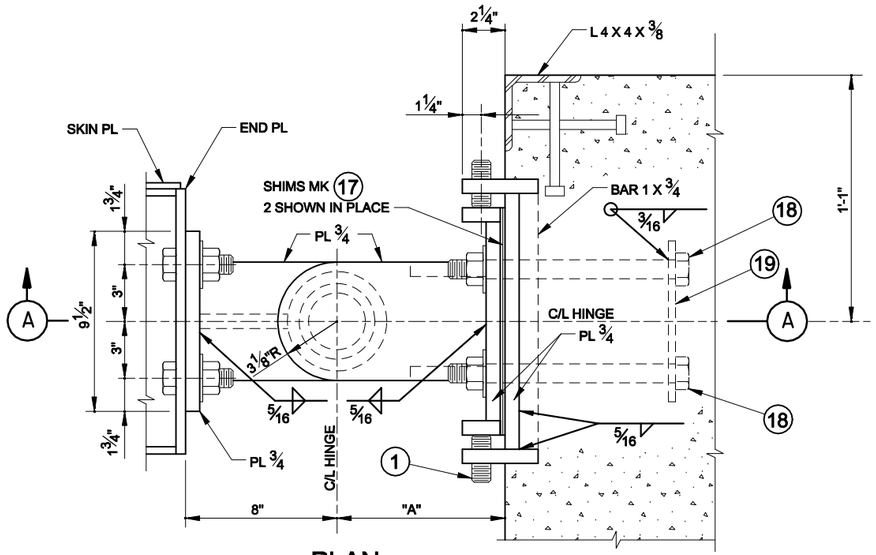
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY: CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS
PLOT SCALE: 1" = 1'
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPRSLDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

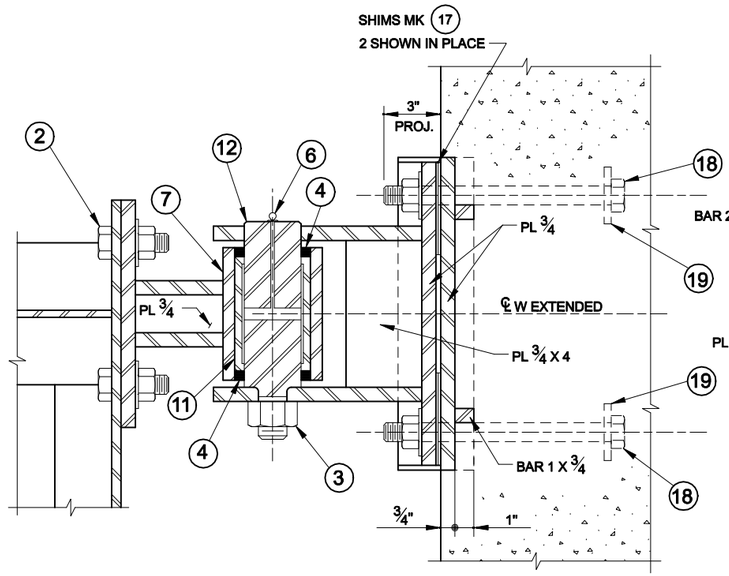
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
SWING GATES
STANDARD HINGES (ISOMETRIC)
~

SHEET IDENTIFICATION
X-00

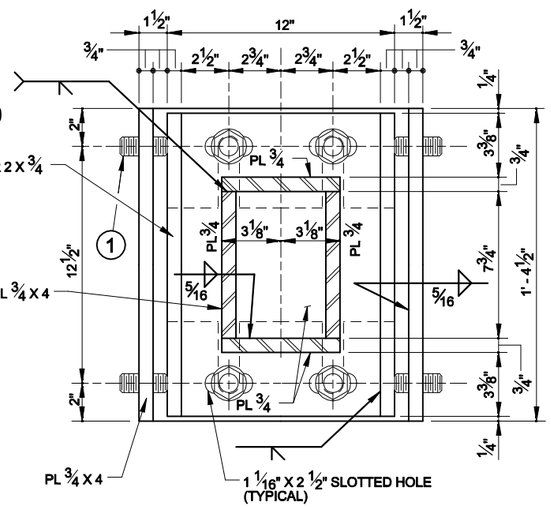


PLAN

DIMENSION "A" :
SEE SWING GATE SEAL DETAILS
DWGS. AETYP03.DGN AND
AETYP03R.DGN.



SECTION (A)

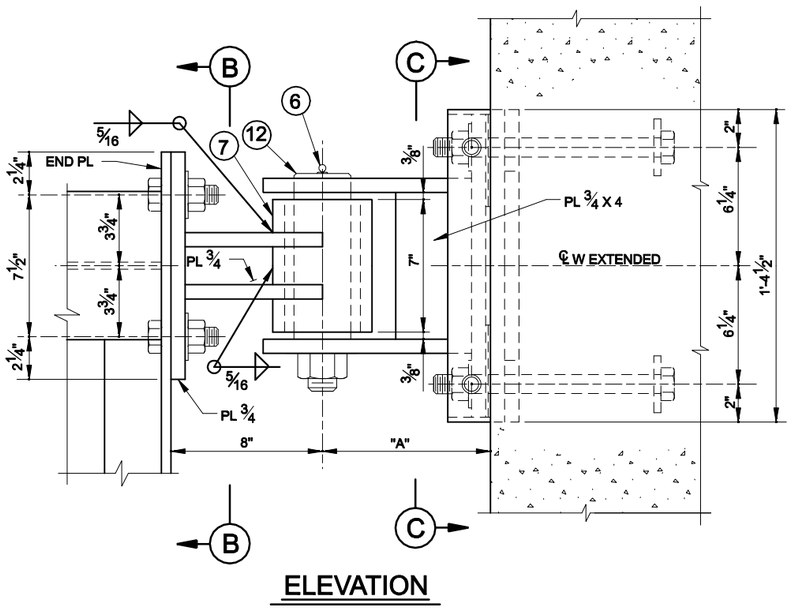


SECTION (C)

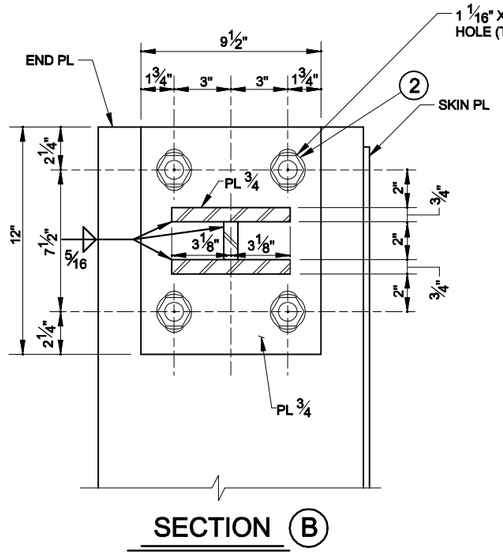
UPPER HINGE

SCALE: 3" = 1'-0"

NOTE:
WELDS SHOWN ARE TYPICAL FOR
SIMILAR JOINTS WHERE NOT SHOWN.



ELEVATION



SECTION (B)

NOTE:

(10) DENOTES MARK NUMBERS, SEE PLATE

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. XX
FOR PLAN AND PROFILE, SEE DWGS. XX
FOR SWING GATE MONOLITH DETAILS, SEE DWG. XX
FOR SWING GATE SEAL DETAILS, SEE DWG. XX
FOR MISCELLANEOUS DETAILS, SEE DWG. XX

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

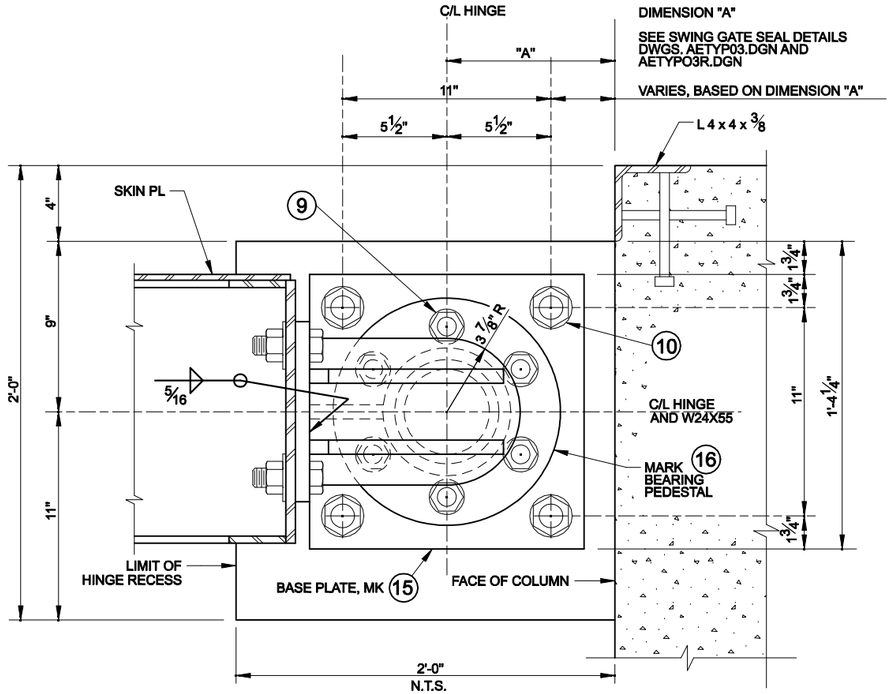
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 3" = 1"
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYPXX.DGN

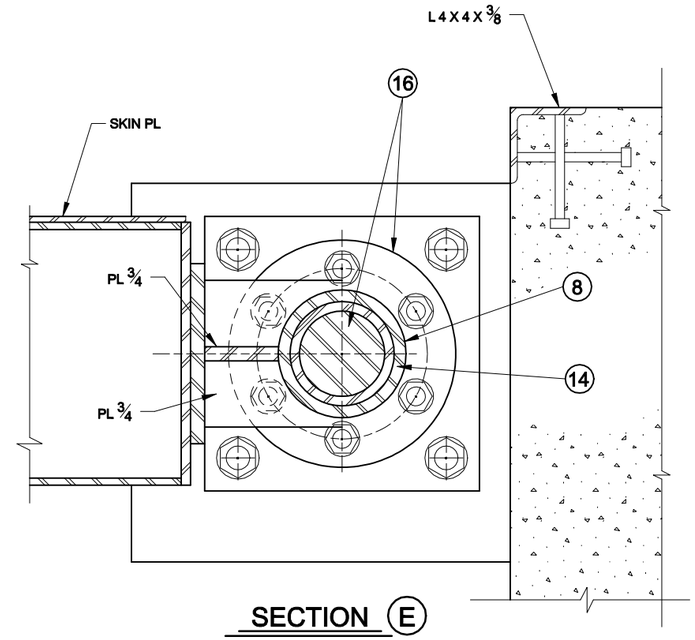
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
HINGE SECTIONS
(1 OF 2)

SHEET IDENTIFICATION
X-00



PLAN



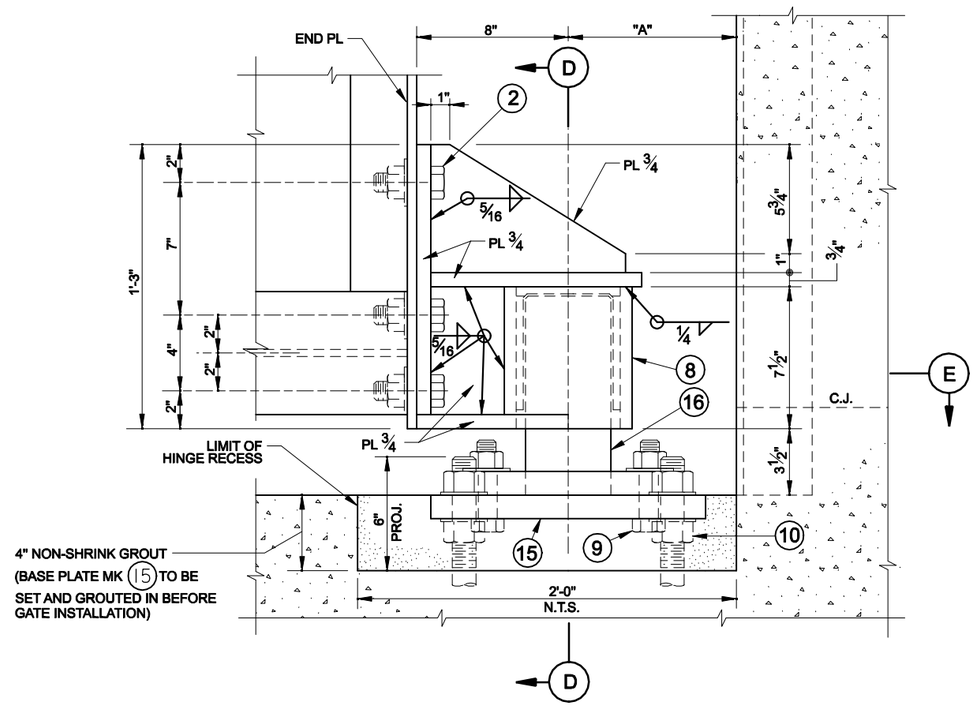
SECTION E

NOTE:

(10) DENOTES MARK NUMBERS, SEE PLATE XX

REFERENCE DRAWINGS

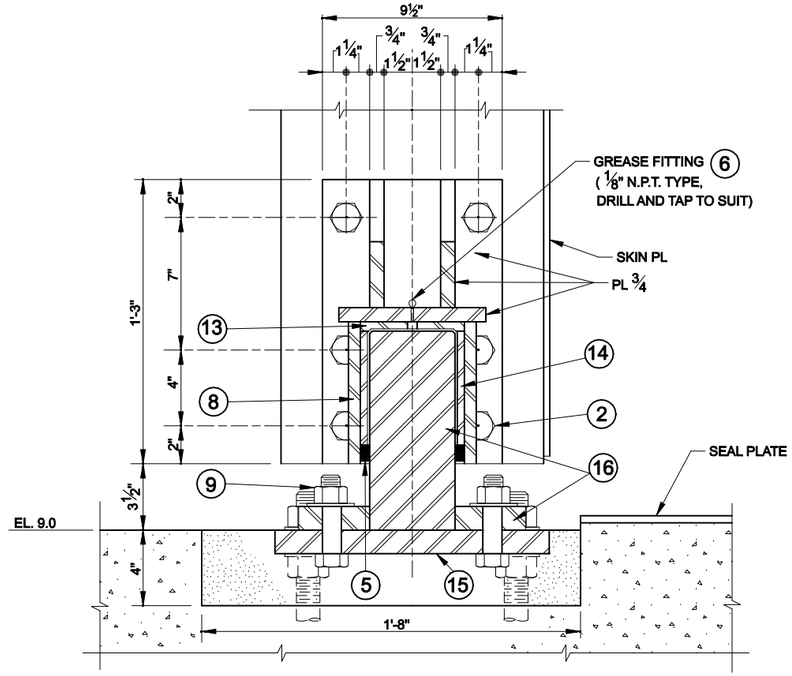
FOR GENERAL NOTES, SEE DWG. XX
FOR PLAN AND PROFILE, SEE DWGS. XX
FOR SWING GATE MONOLITH DETAILS, SEE DWG. XX
FOR SWING GATE SEAL DETAILS, SEE DWG. XX
FOR MISCELLANEOUS DETAILS, SEE DWG. XX



ELEVATION

LOWER HINGE

SCALE: 3" = 1'-0"



SECTION D

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

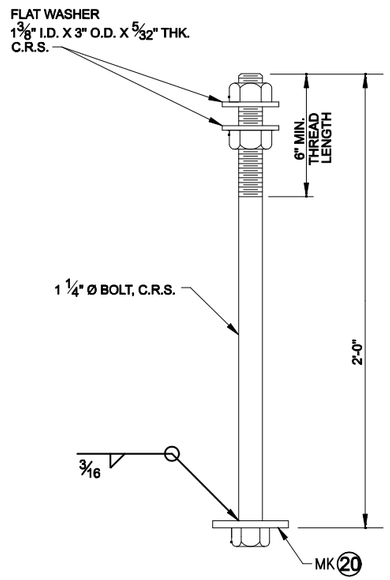
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DRWN BY:
SUBMITTED BY:
CKD BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: AETYPICALS
PLOT SCALE: 2" = 1'
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPM.DGN

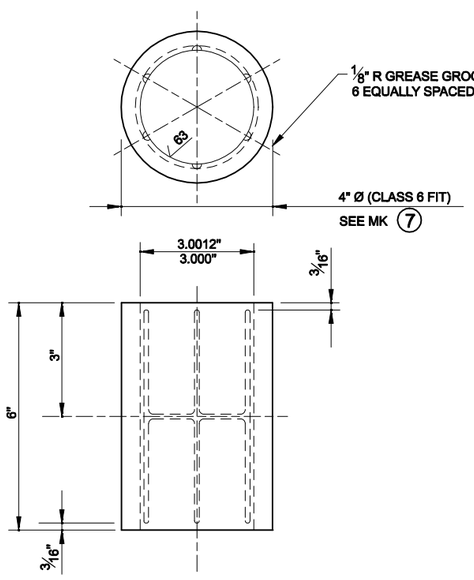
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
HINGE SECTIONS
(2 OF 2)

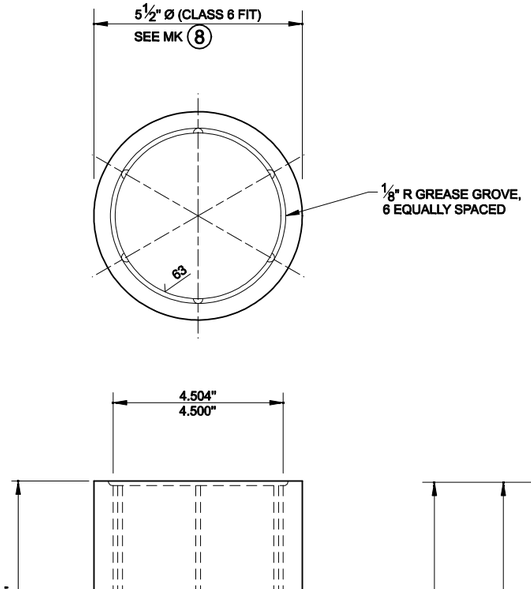
SHEET IDENTIFICATION
X-00



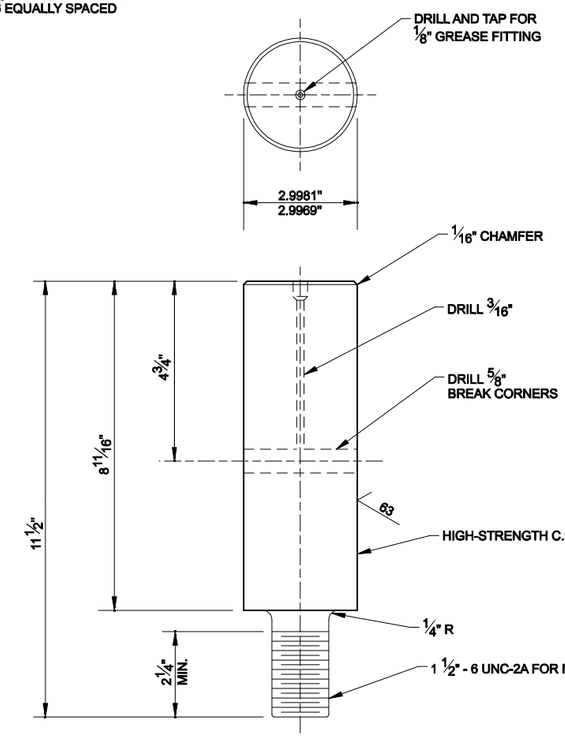
MK-10
ANCHOR BOLT
SCALE: 3" = 1'-0"



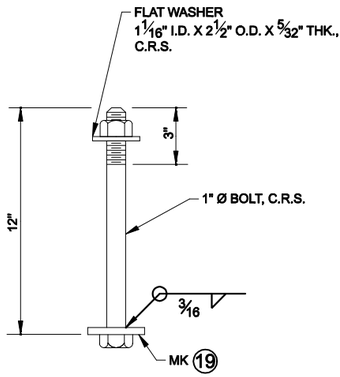
MK-11
BUSHING
SCALE: 6" = 1'-0"



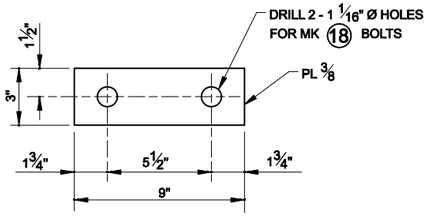
MK-14
BUSHING
SCALE: 6" = 1'-0"



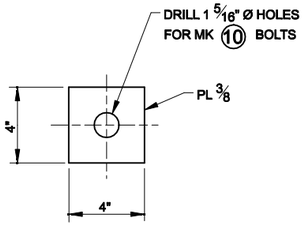
MK-12
UPPER HINGE SHAFT
SCALE: 6" = 1'-0"



MK-18
ANCHOR BOLT
SCALE: 3" = 1'-0"



MK-19
PLATE
SCALE: 3" = 1'-0"



MK-20
PLATE
SCALE: 3" = 1'-0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. XX
FOR PLAN AND PROFILE, SEE DWGS. XX
FOR SWING GATE MONOLITH DETAILS, SEE DWGS XX
FOR SWING GATE DETAILS, SEE DWGS. XX
FOR MARK NUMBERS, SEE DWG. XX

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE: 6"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

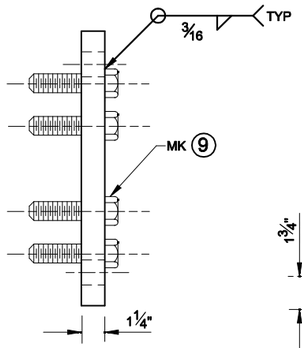
MARK	DESCRIPTION	DATE	APPR.

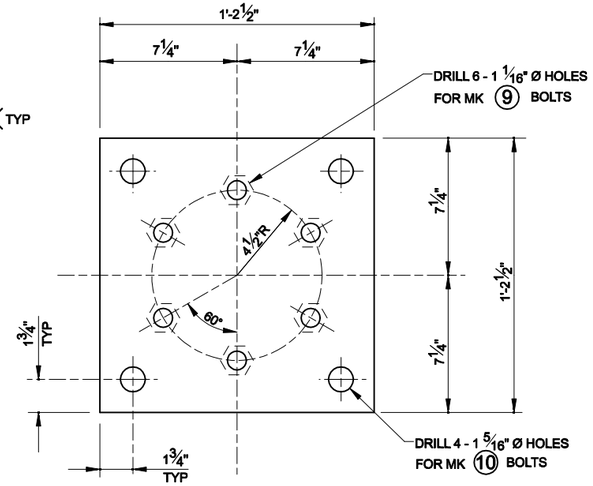
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
CKD BY:
PLOT SCALE: PLOT DATE:
PLOT STYLE TABLE:
SIZE: ANSI D
FILE NAME: AE-TYPDET
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: AE-TYPDET

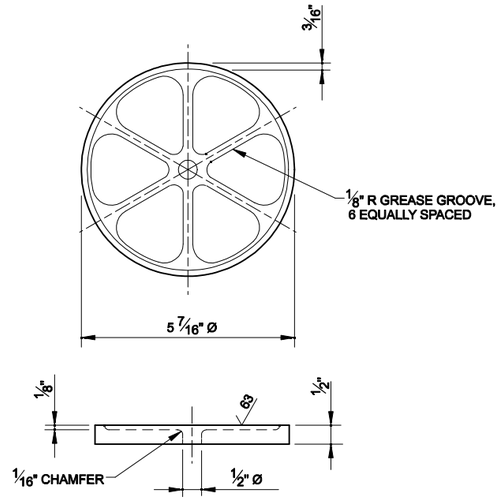
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
HINGE DETAILS
(1 OF 2)

SHEET IDENTIFICATION
X-00

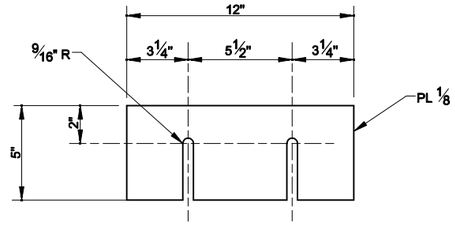




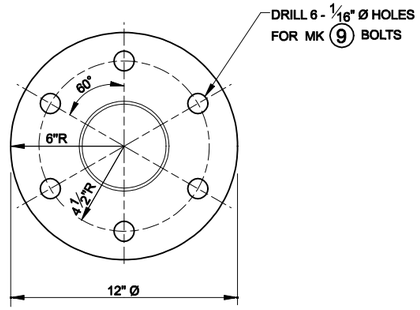
MK-15
BASE PLATE
SCALE: 3" = 1'-0"

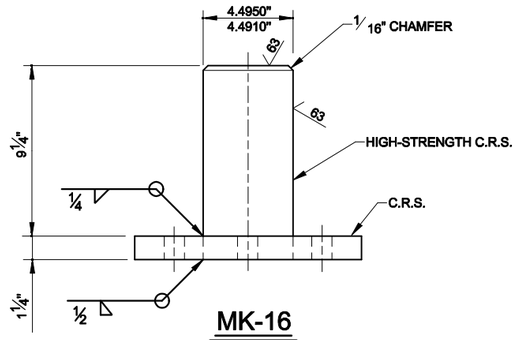


MK-13
THRUST WASHER
SCALE: 6" = 1'-0"



MK-17
SHIM
SCALE: 3" = 1'-0"





MK-16
BEARING PEDESTAL
SCALE: 3" = 1'-0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. XX
FOR PLAN AND PROFILE, SEE DWGS. XX
FOR SWING GATE MONOLITH DETAILS, SEE DWG XX
FOR SWING GATE DETAILS, SEE DWGS. XXX
FOR MARK NUMBERS, SEE DWG. XXX

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE: 6"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

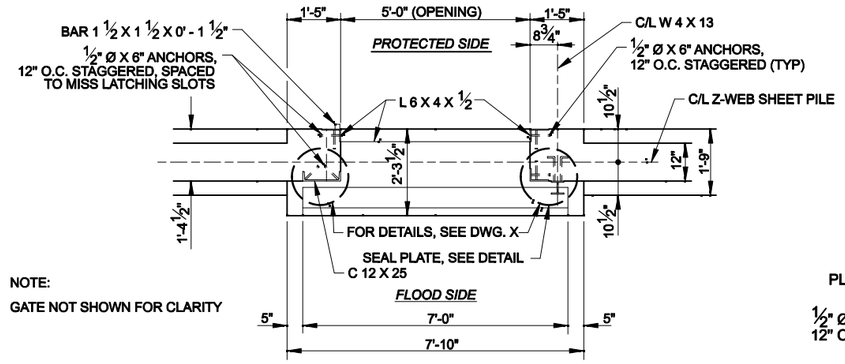
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 2" = 1"
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYPMLDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

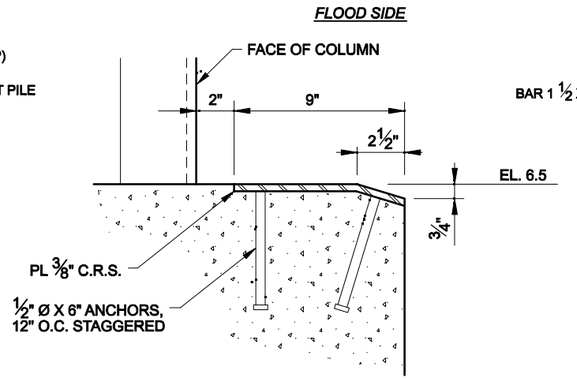
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
SWING GATES
HINGE DETAILS
(2 OF 2)

SHEET IDENTIFICATION
X-00

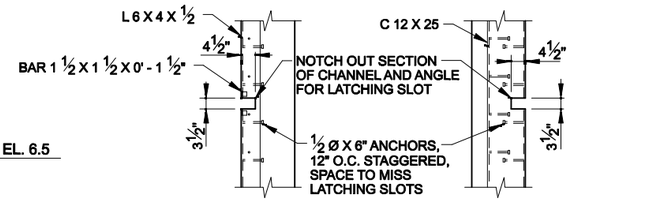


NOTE:
GATE NOT SHOWN FOR CLARITY

PLAN
SCALE: ½" = 1'- 0"



SEAL PLATE DETAIL
SCALE: 3" = 1' - 0"

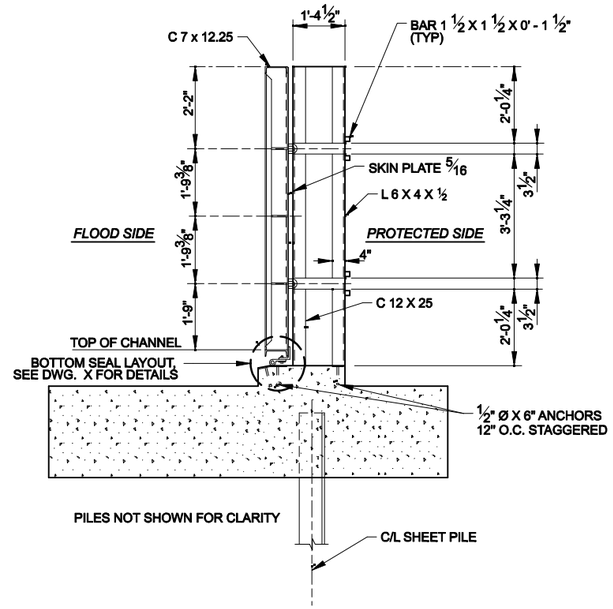


PROTECTED SIDE ELEVATION FLOOD SIDE ELEVATION

TYPICAL DETAIL AT LATCHING SLOTS
SCALE: ½" = 1'- 0"

A

FLOOD SIDE ELEVATION
SCALE: ½" = 1'- 0"



SECTION A
SCALE: ½" = 1'- 0"

NOTES:

1. FOR GENERAL NOTES SEE DWG. X AND X.
2. FOR GATE MONOLITH REINFORCING SEE DWG. X.
3. FOR SEAL DETAILS, SEE DWG. X.
4. CONTRACTOR MAY PROPOSE USE OF A MANUFACTURED GATE. GATE TYPE SUBJECT TO APPROVAL BY CONTRACTING OFFICER.

SCALE:1/2"=1'
0 1' 2' 4'

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

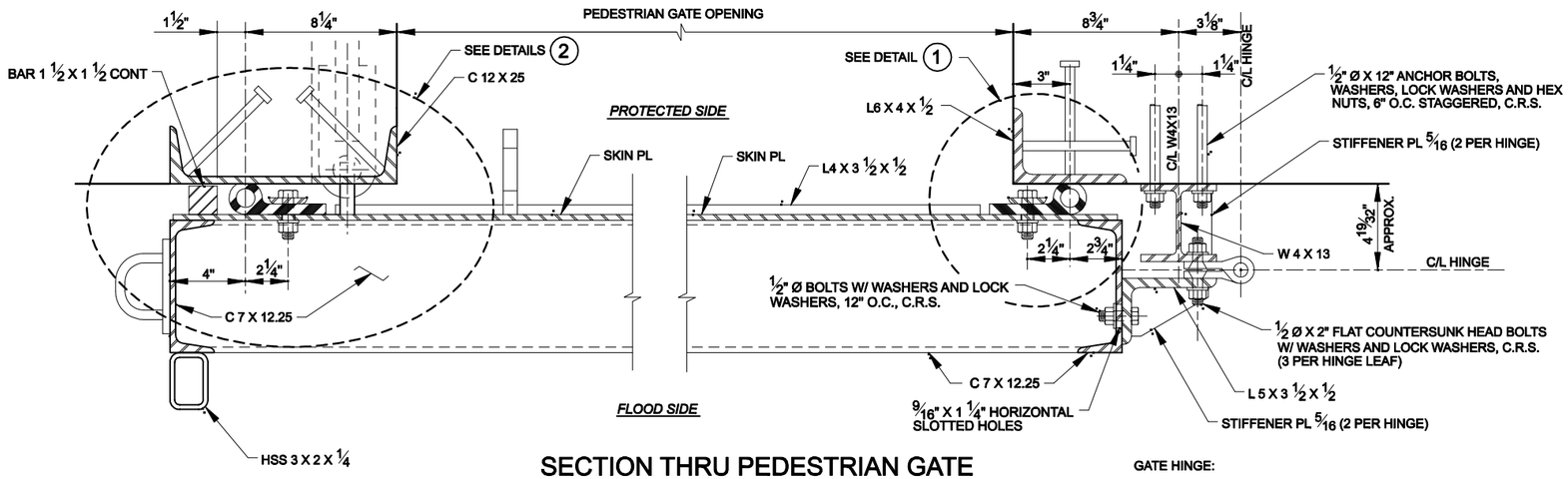
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 3"=1'
SIZE: ANSI D
PLOT DATE:
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYPFDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
PEDESTRIAN GATES
MASONRY
~

SHEET IDENTIFICATION
X-00

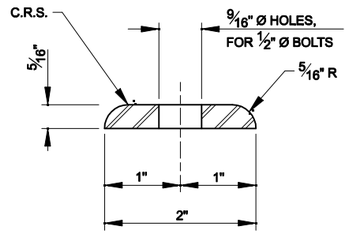


SECTION THRU PEDESTRIAN GATE

SCALE: 3" = 1' - 0"

GATE HINGE:

PRISON TYPE, FULL MORTISE, SWAGED STEEL WITH STEEL PIN, ITEM NO. BB852 AS MFD. BY STANLEY OR EQUAL (3 EACH)



SEAL RETAINING BAR

SCALE: 1" = 1' - 0"

NOTES:

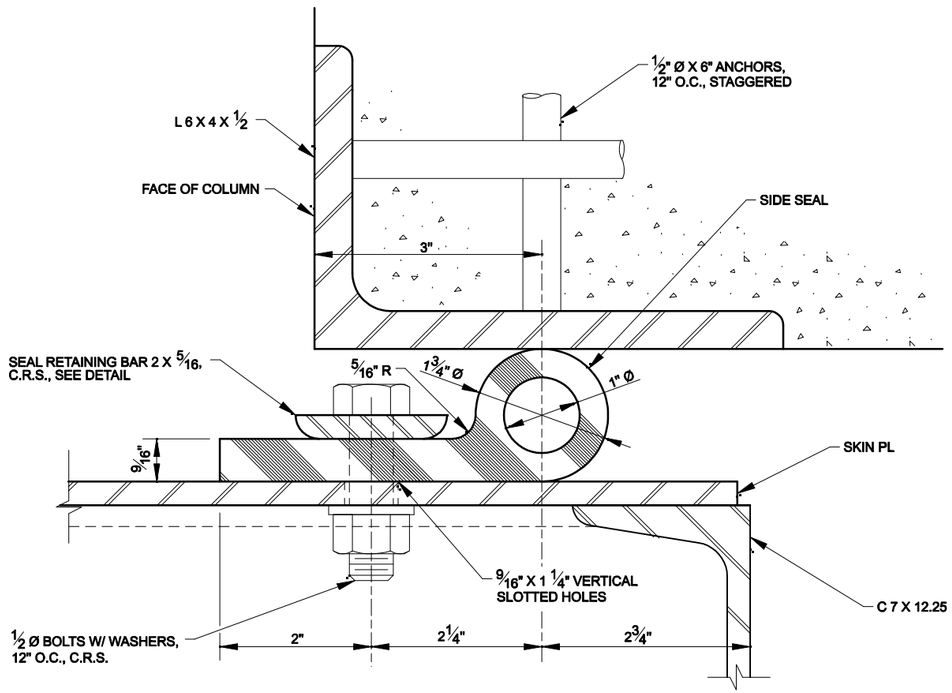
FOR GENERAL NOTES, SEE DWG. X.

ALL SPLICES WILL BE FACTORY MADE IN HEAVY STEEL PRESS TYPE MOLDS UNDER PRESSURE AND HEAT.

ALL SPLICE JOINTS MUST DEVELOP STRENGTH OF AT LEAST 50% OF THE MINIMUM TENSILE STRENGTH REQUIRED OF THE RUBBER.

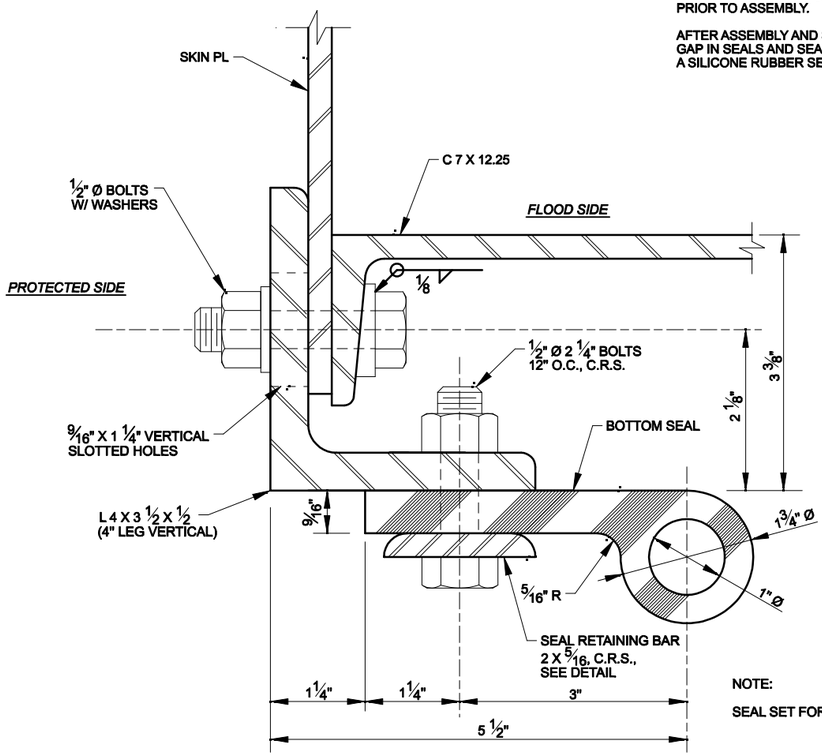
SEAL CLAMP ANGLES SHALL BE PAINTED ON ALL SIDES PRIOR TO ASSEMBLY.

AFTER ASSEMBLY AND SEAL ADJUSTMENTS ARE MADE, ALL GAP IN SEALS AND SEAL SUPPORTS SHALL BE SEALED WITH A SILICONE RUBBER SEALANT TO PROVIDE WATERTIGHT JOINTS.



DETAIL (1)

SCALE: 1" = 1' - 0"



NOTE:

SEAL SET FOR ⅛" DEFLECTION

SECTION (B)

SCALE: 1" = 1' - 0"

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE:1"=1"
0 1" 2"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

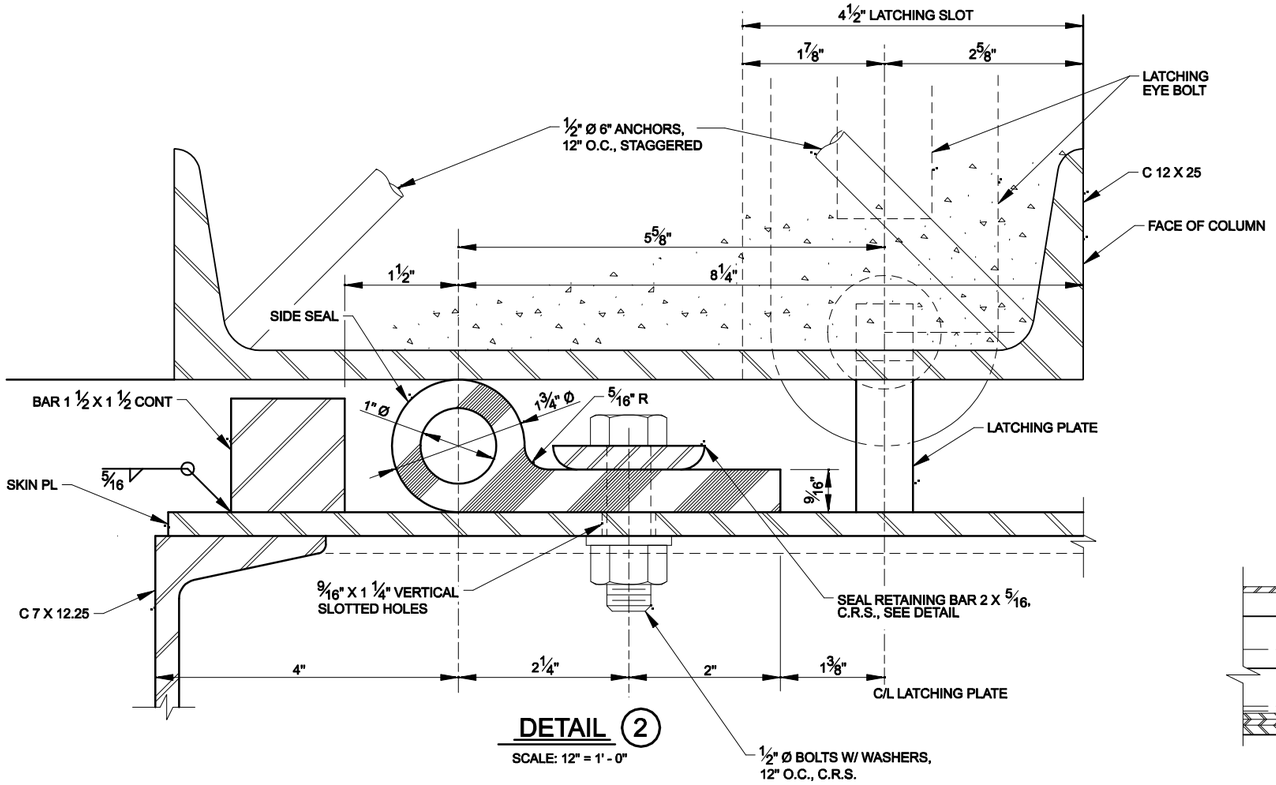
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1:1
PLOT DATE:
SIZE: ANSI D
FILE NUMBER: AE-TYP2-45
FILE NAME: AE-TYP7.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

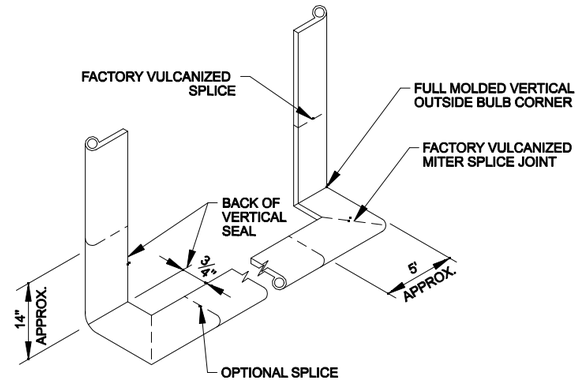
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
SEAL DETAILS
PROTECTED SIDE OPTION (1 OF 2)

SHEET IDENTIFICATION
X-00



DETAIL (2)

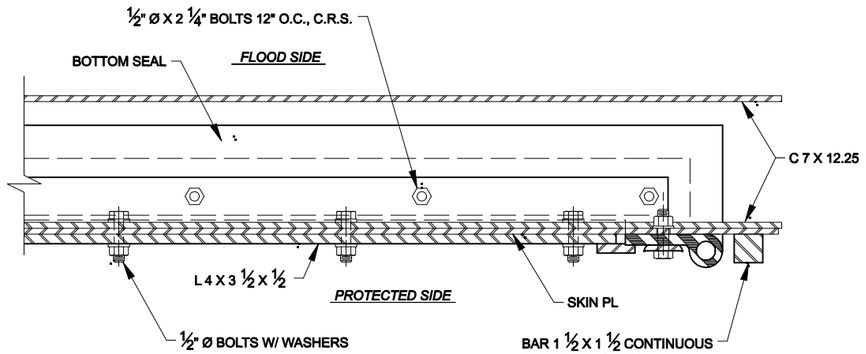
SCALE: 12" = 1' - 0"



CORNER DETAIL, TYPICAL BOTH SIDES

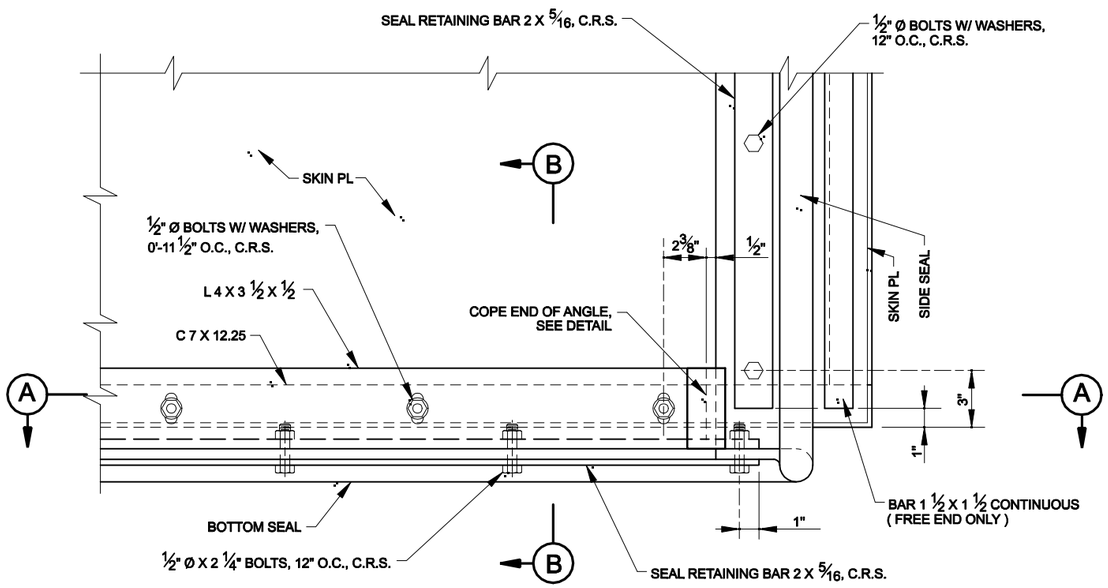
PEDESTRIAN GATE SEAL

NTS



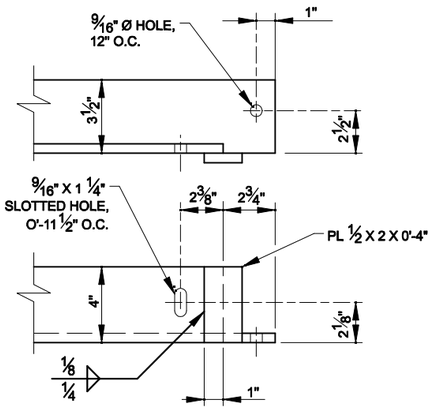
SECTION (A)

SCALE: 3" = 1' - 0"



END ELEVATION - PROTECTED SIDE

SCALE: 3" = 1' - 0"



END OF L 4 X 3½ X ½

SCALE: 3" = 1' - 0"

NOTES:

FOR GENERAL NOTES, SEE DWG. X.

ALL SPLICES WILL BE FACTORY MADE IN HEAVY STEEL PRESS TYPE MOLDS UNDER PRESSURE AND HEAT.

ALL SPLICE JOINTS MUST DEVELOP STRENGTH OF AT LEAST 50% OF THE MINIMUM TENSILE STRENGTH REQUIRED OF THE RUBBER.

SEAL CLAMP ANGLES SHALL BE PAINTED ON ALL SIDES PRIOR TO ASSEMBLY.

AFTER ASSEMBLY AND SEAL ADJUSTMENTS ARE MADE, ALL GAP IN SEALS AND SEAL SUPPORTS SHALL BE SEALED WITH A SILICONE RUBBER SEALANT TO PROVIDE WATERTIGHT JOINTS.

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE:1"=1"
0 1" 2"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

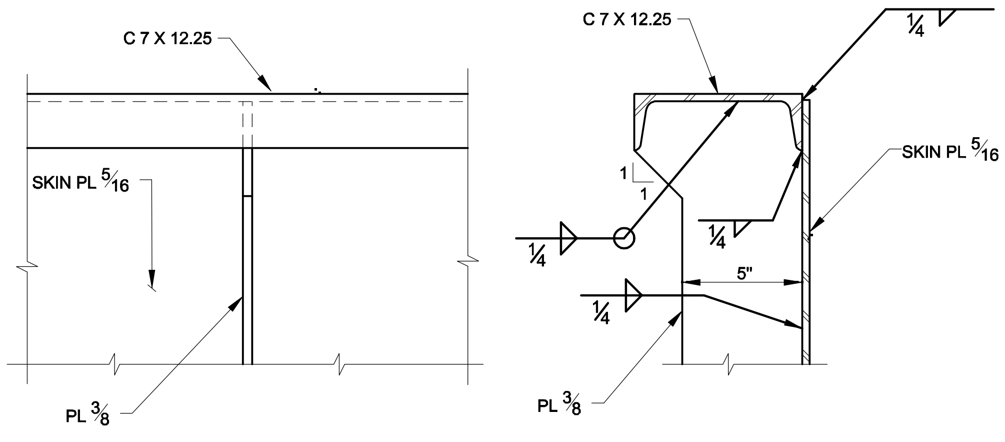
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

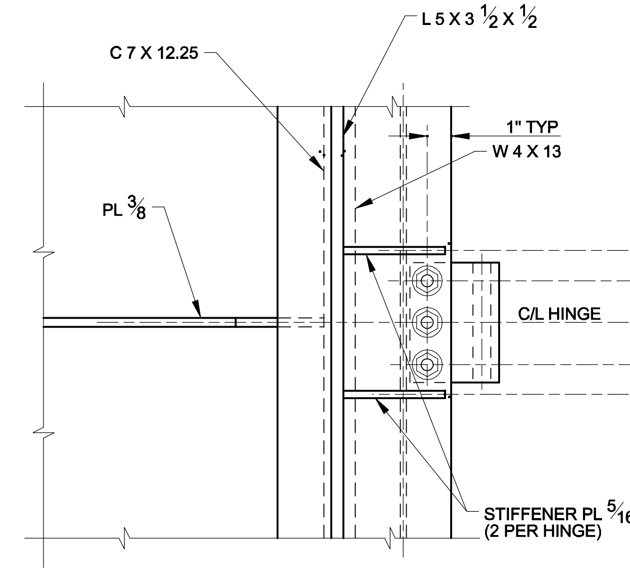
DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
SUBMITTED BY:
DATE: MAY 2008
CKD BY:
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1:1
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP1.DGN

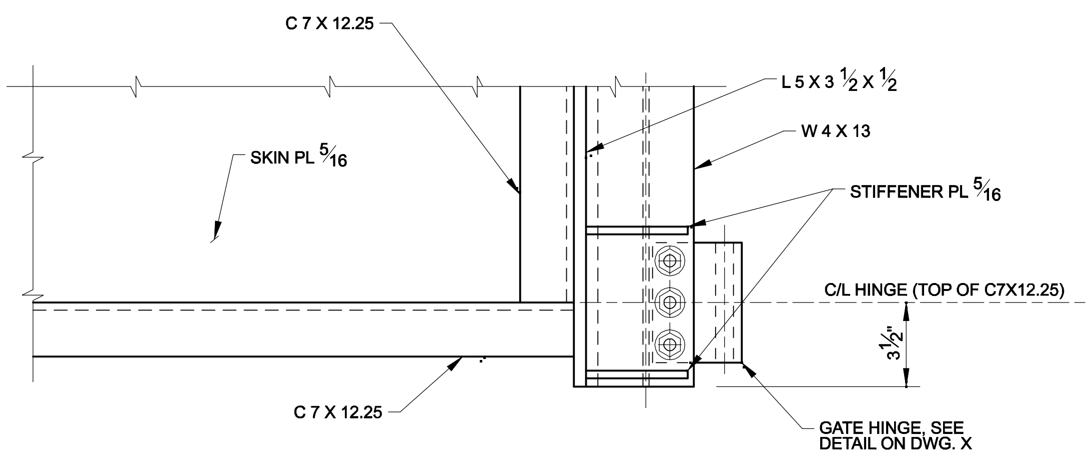
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
SEAL DETAILS
PROTECTED SIDE OPTION (2 OF 2)

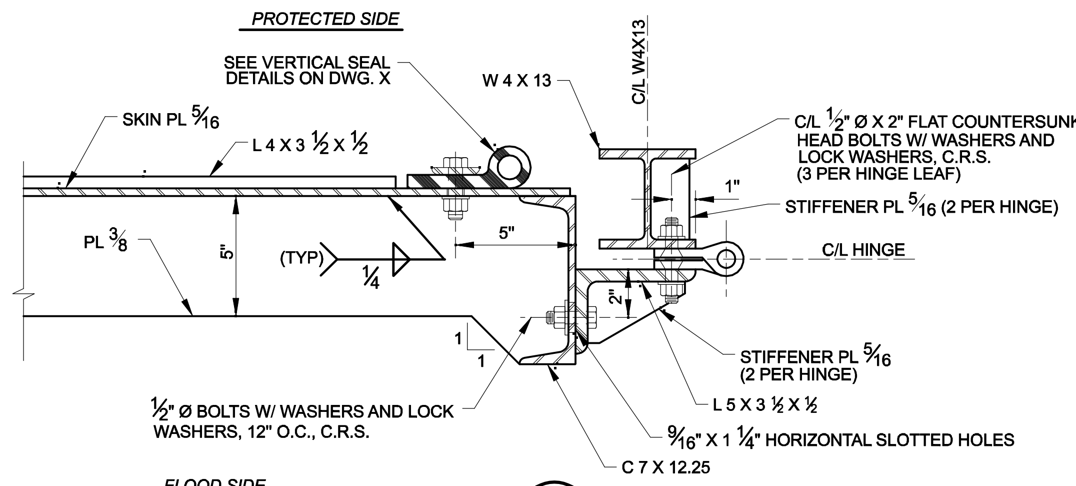
SHEET IDENTIFICATION
X-00



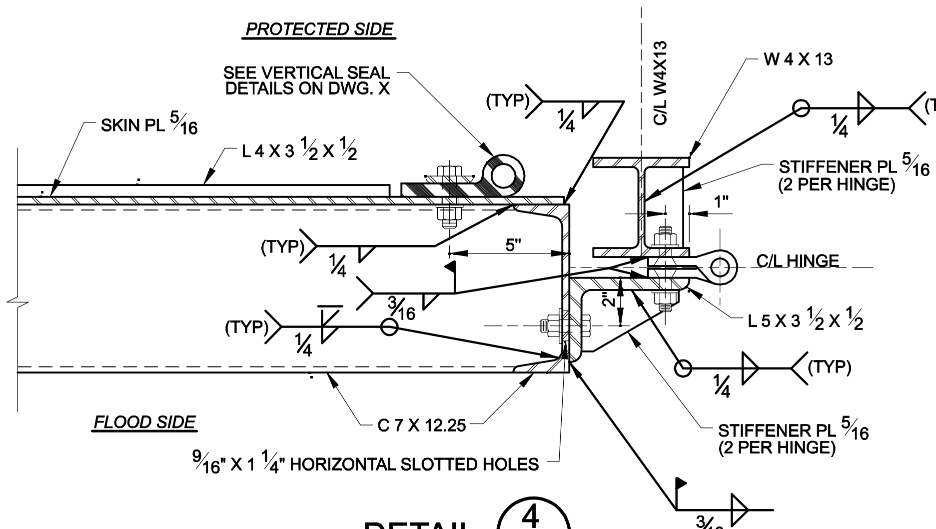
DETAIL 1 X X



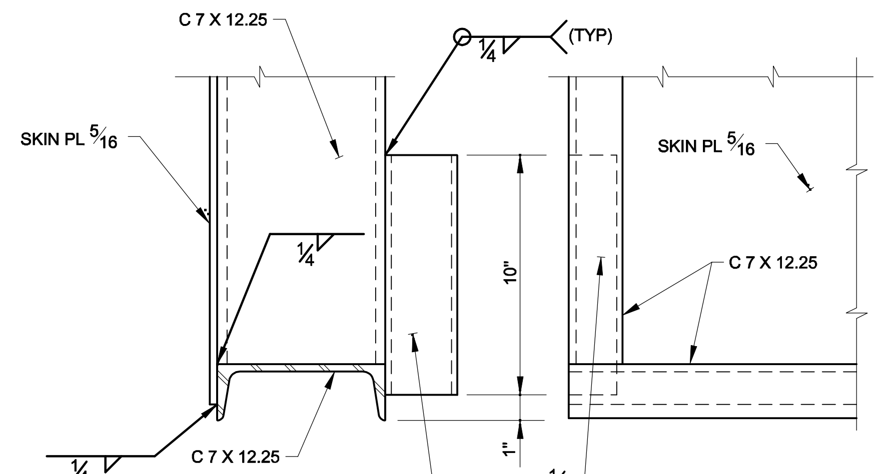




DETAIL 2 X X



DETAIL 4 X X



DETAIL 5 X X

SCALE: 3"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

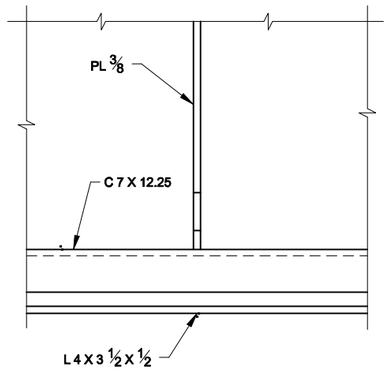
DATE: MAY 2008 | SOLICITATION NO.: | CONTRACT NO.: | FILE NUMBER: A/E TYPICALS

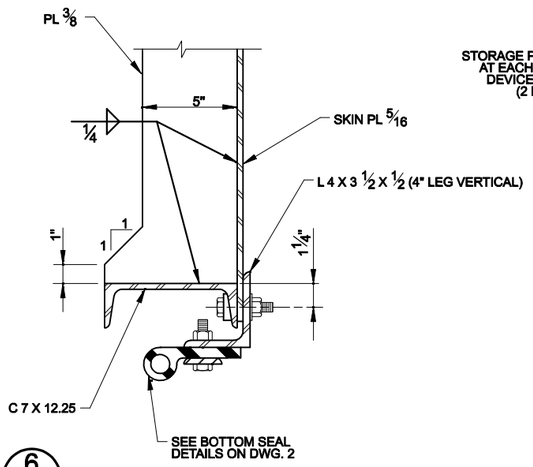
DESIGNED BY: USACE - NEW ORLEANS | DWN BY: | CKD BY: | SUBMITTED BY: | PLOT SCALE: 3" = 1' | PLOT DATE: | SIZE: ANSI D | FILE NAME: AE-TYP72.DGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
PEDESTRIAN GATES
HINGE DETAILS
PROTECTED SIDE OPTION (1 OF 2)

SHEET IDENTIFICATION
X-00



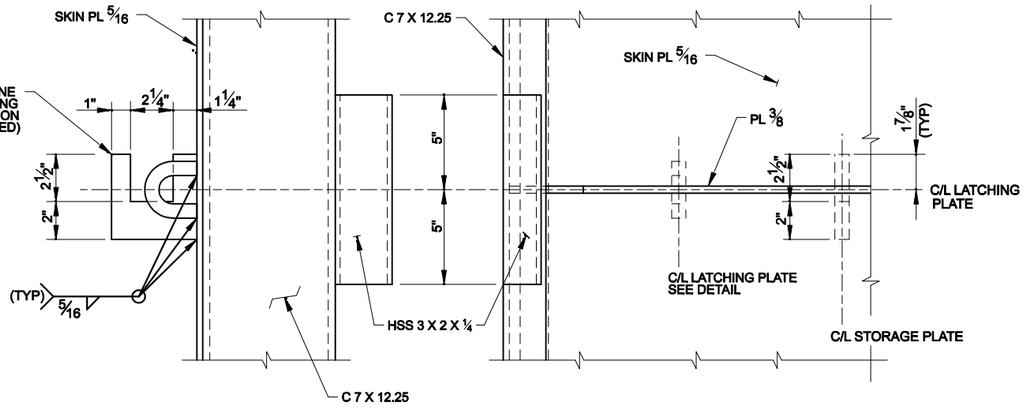


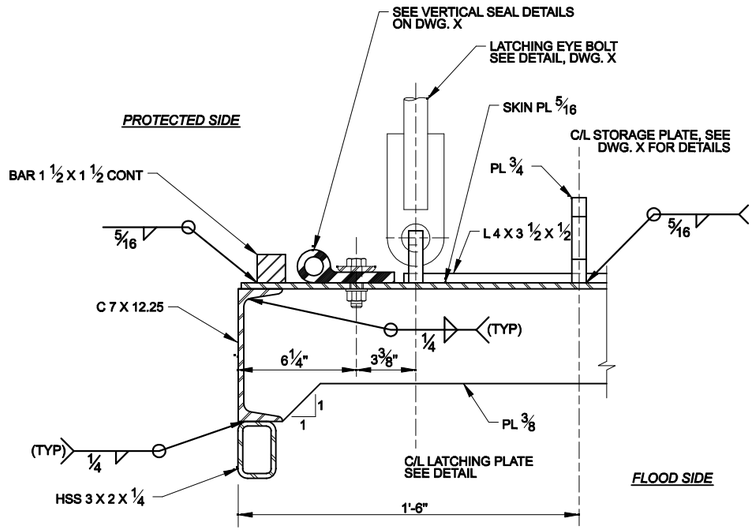
NOTE:

SEAL ASSEMBLY SHOWN IN SOME VIEWS FOR ORIENTATION ONLY.

DETAIL 6 X X

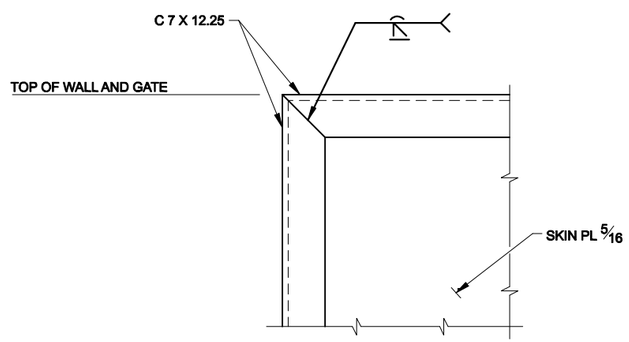
SCALE: 3" = 1' - 0"





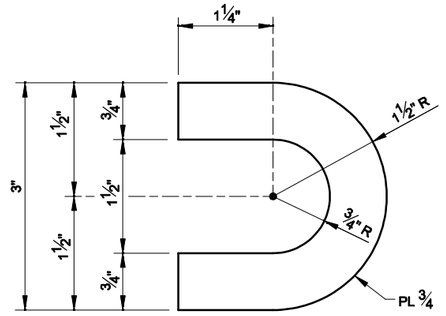
DETAIL 3 X X

SCALE: 3" = 1' - 0"



DETAIL 7 X X

SCALE: 3" = 1' - 0"



LATCHING PLATE

SCALE: 1" = 1' - 0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X
FOR GATE PLAN AND PROFILE, SEE DWG. X
FOR GATE MONOLITHS MASONRY DETAILS, SEE DWGS X AND X.
FOR SEAL DETAILS, SEE DWG. X.

SCALE: 3"=1'

0 3" 6" 9" 12"

SCALE:1"=1"

0 1" 2"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

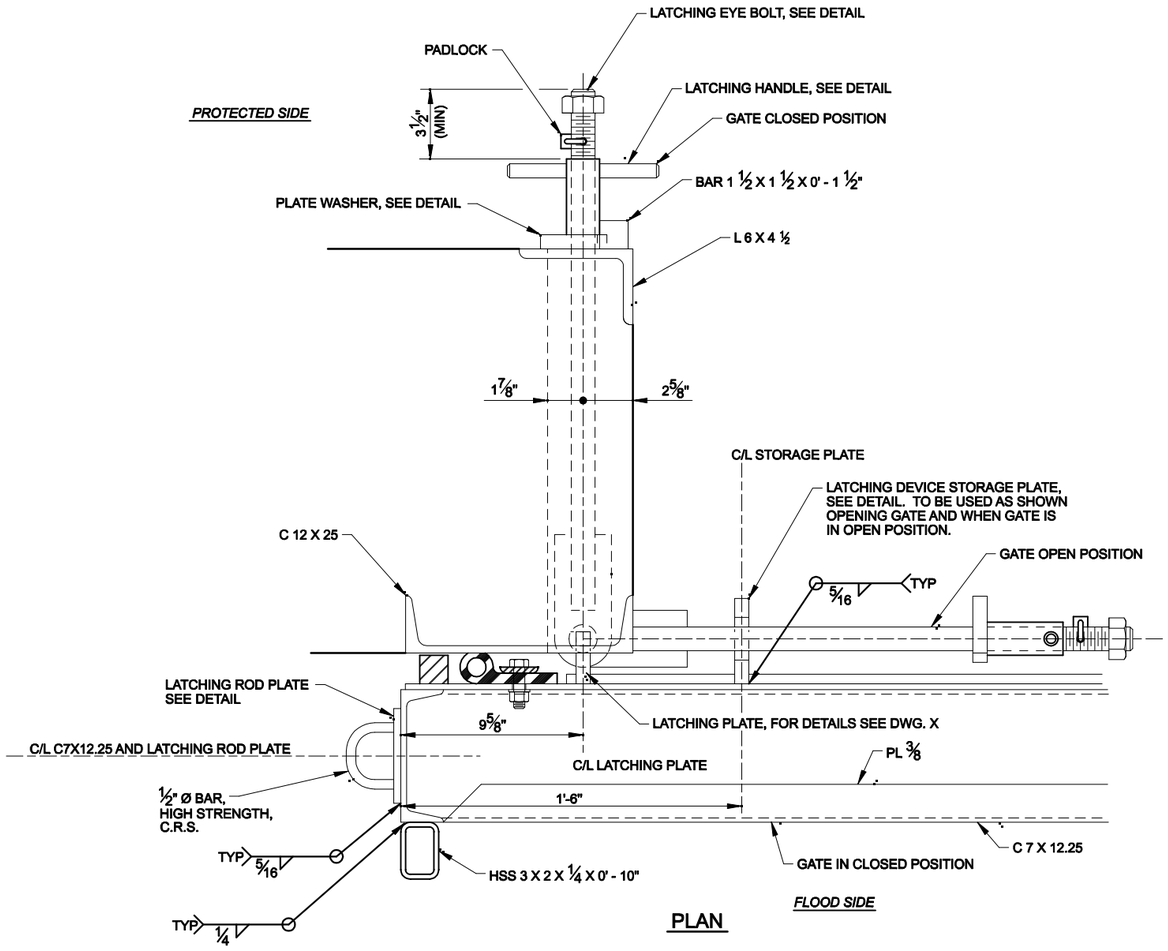
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE:
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP12.DGN

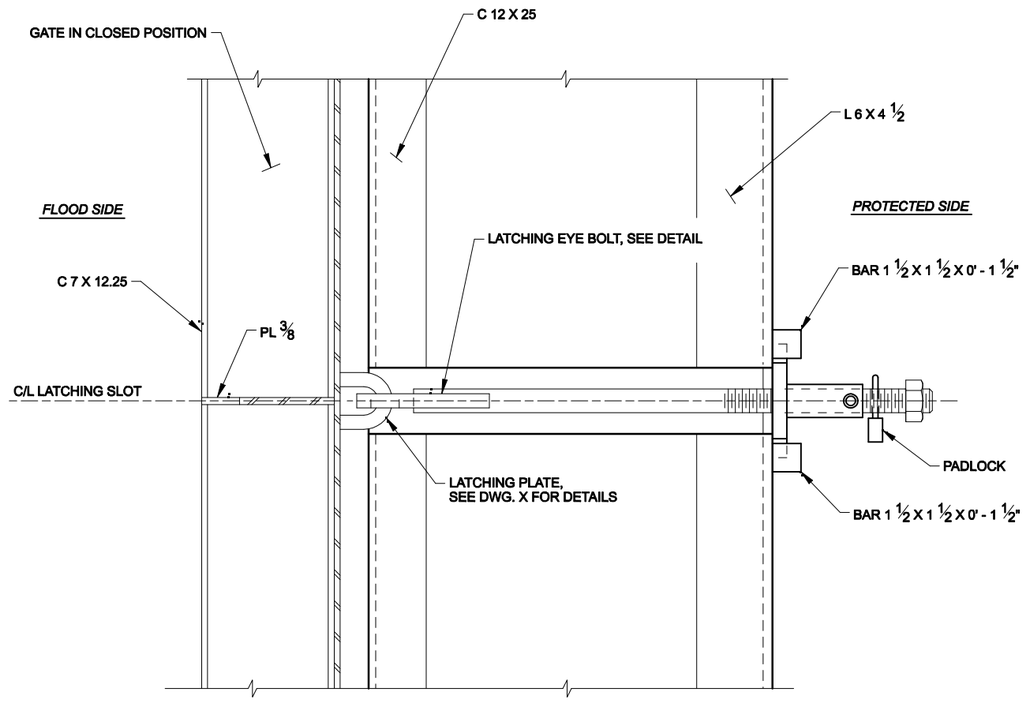
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
PEDESTRIAN GATES
HINGE DETAILS
PROTECTED SIDE OPTION (2 OF 2)

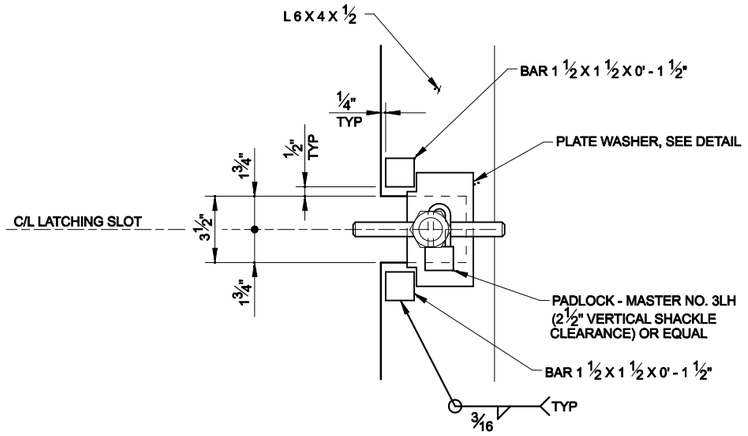
SHEET IDENTIFICATION
X-00



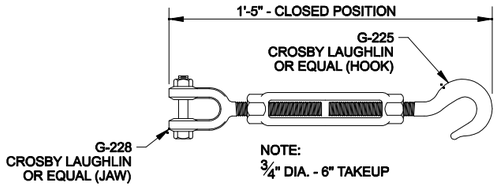
PLAN



SECTION AT C/L LATCHING DEVICE



PROTECTED SIDE ELEVATION



STORAGE LATCHING DEVICE

LATCHING DEVICE

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X.
FOR GATE PLAN AND PROFILE, SEE DWG. X.
FOR GATE MONOLITHS MASONRY DETAILS, SEE DWG. X AND X.
FOR GATE DETAILS, SEE DWG. X.

SCALE: 3"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

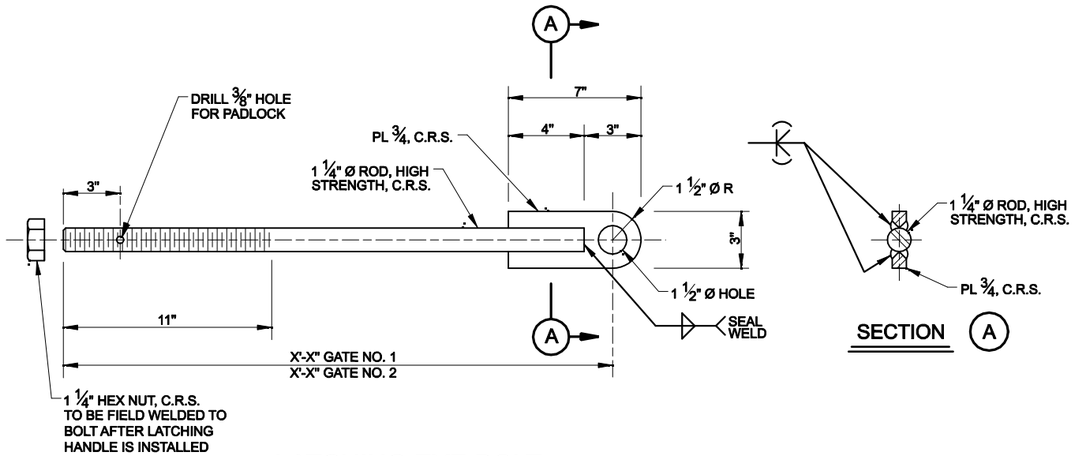
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY: CKD BY:
SUBMITTED BY:
DATE: MAY 2009
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP2LDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
~
PEDESTRIAN GATES
LATCHING DETAILS
PROTECTED SIDE OPTION (1 OF 2)

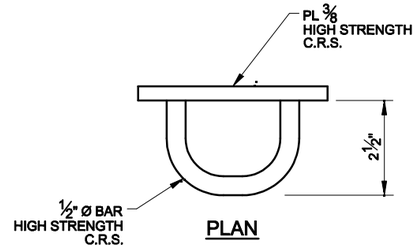
SHEET IDENTIFICATION
X-00



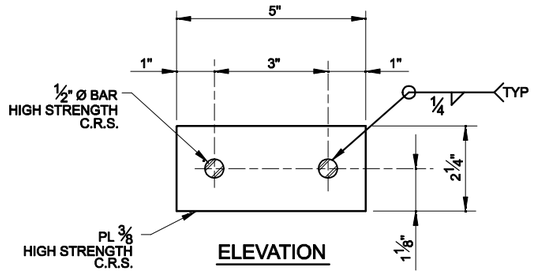
LATCHING EYE BOLT

SCALE: 3" = 1'-0"

SECTION (A)



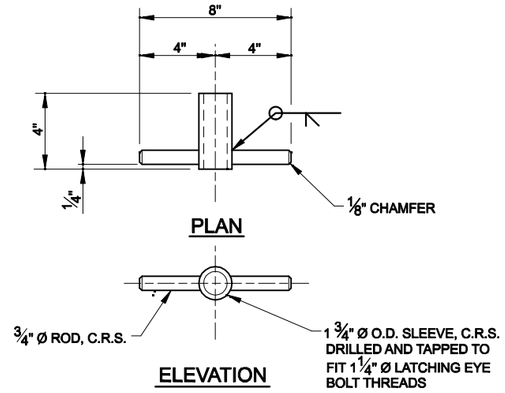
PLAN



ELEVATION

LATCHING ROD PLATE

SCALE: 6" = 1'-0"



PLAN

ELEVATION

LATCHING HANDLE

SCALE: 3" = 1'-0"

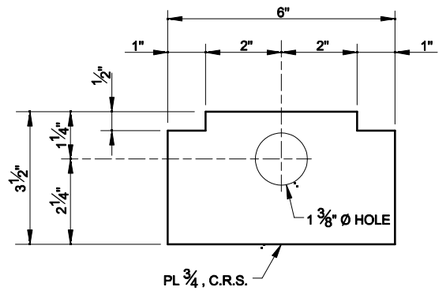
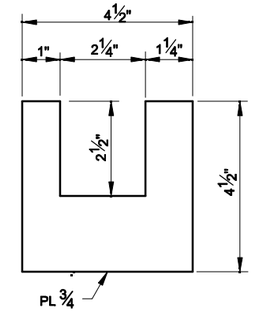


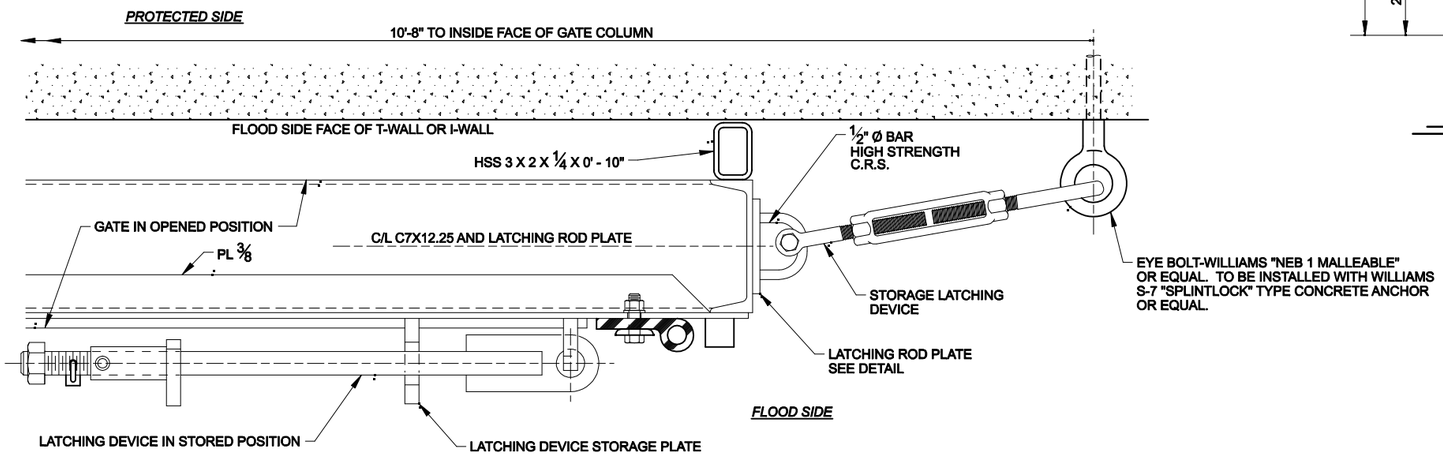
PLATE WASHER

SCALE: 6" = 1'-0"



STORAGE PLATE

SCALE: 6" = 1'-0"



PLAN

LATCHING ARRANGEMENT IN OPEN POSITION

SCALE: 3" = 1'-0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X.

FOR GATE PLAN AND PROFILE, SEE DWG. X.

FOR GATE MONOLITHS MASONRY DETAILS, SEE DWG. X AND X.

FOR GATE DETAILS, SEE DWG. X.

SCALE: 3"=1'

0 3" 6" 9" 12"

SCALE: 6"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

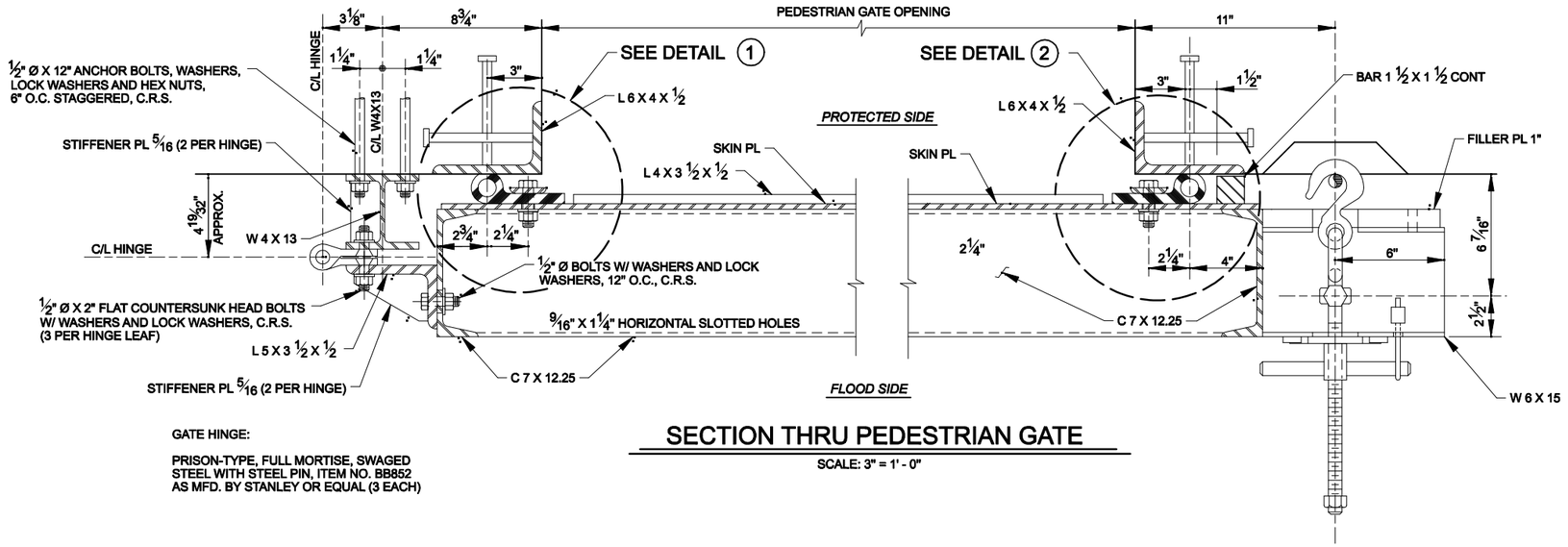
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DRWN BY:
SUBMITTED BY:
DATE: MAY 2006
CKD BY:
SIZE: ANSI D
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: PLOT DATE:
FILE NAME: AE-TYP72.DGN
FILE NUMBER: A/E TYPICALS

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
LATCHING DETAILS
PROTECTED SIDE OPTION (2 OF 2)

SHEET IDENTIFICATION
X-00

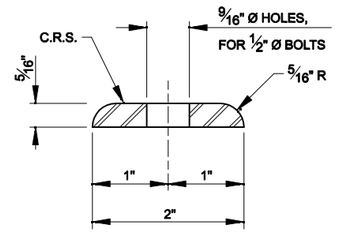


SECTION THRU PEDESTRIAN GATE

SCALE: 3" = 1' - 0"

GATE HINGE:

PRISON-TYPE, FULL MORTISE, SWAGED STEEL WITH STEEL PIN, ITEM NO. BB852 AS MFD. BY STANLEY OR EQUAL (3 EACH)



SEAL RETAINING BAR

SCALE: 1" = 1' - 0"

NOTES:

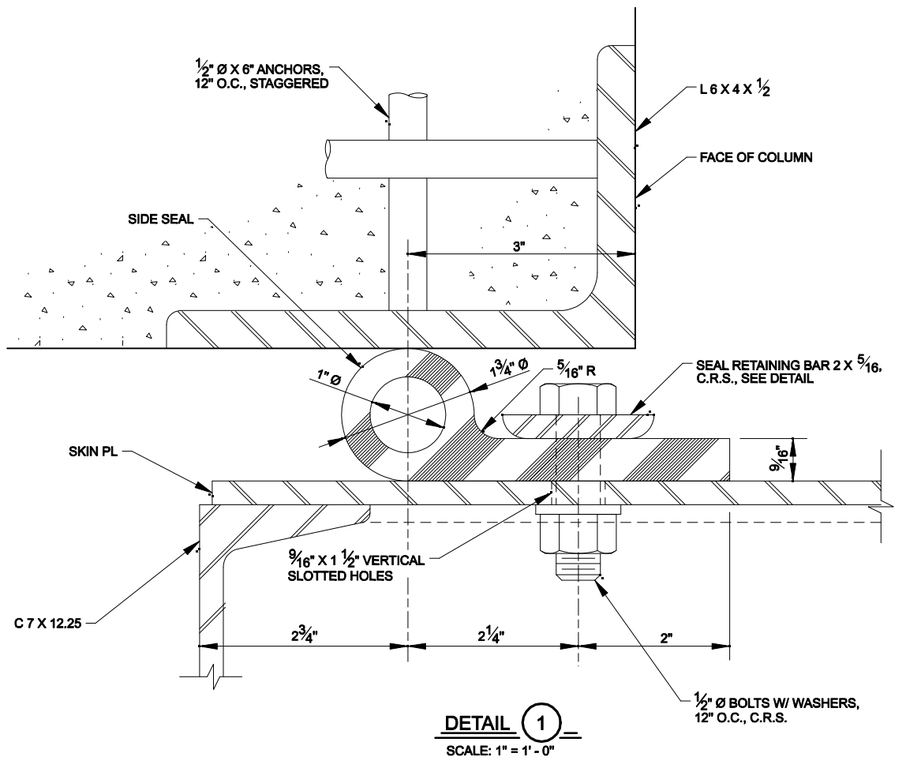
FOR GENERAL NOTES, SEE DWG. X.

ALL SPLICES WILL BE FACTORY MADE IN HEAVY STEEL PRESS TYPE MOLDS UNDER PRESSURE AND HEAT.

ALL SPLICE JOINTS MUST DEVELOP STRENGTH OF AT LEAST 50% ON THE MINIMUM TENSILE STRENGTH REQUIRED OF THE RUBBER.

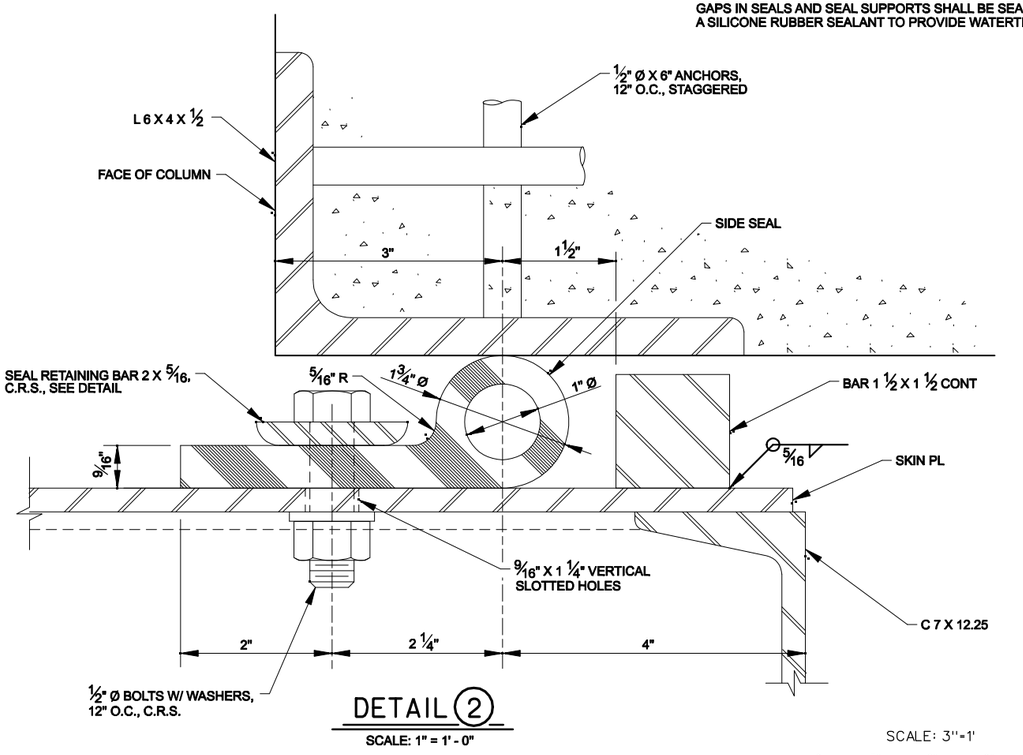
SEAL CLAMP ANGLES SHALL BE PAINTED ON ALL SIDES PRIOR TO ASSEMBLY.

AFTER ASSEMBLY AND SEAL ADJUSTMENTS ARE MADE, ALL GAPS IN SEALS AND SEAL SUPPORTS SHALL BE SEALED WITH A SILICONE RUBBER SEALANT TO PROVIDE WATERTIGHT JOINTS.



DETAIL 1

SCALE: 1" = 1' - 0"



DETAIL 2

SCALE: 1" = 1' - 0"

SCALE: 3"=1'

0 3" 6" 9" 12"

SCALE: 1"=1"

0 1" 2"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

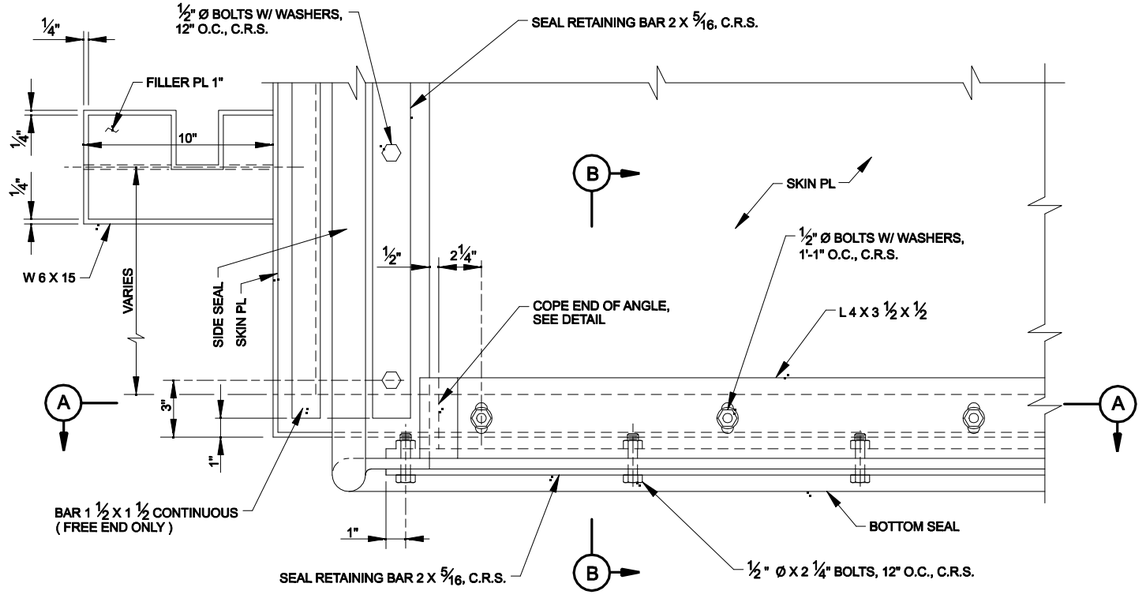
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2006
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1:1
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYP7ALDGN

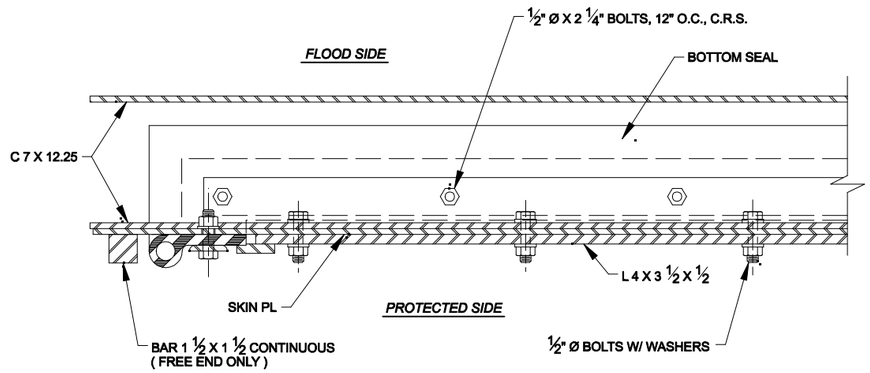
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
SEAL DETAILS
FLOODSIDE OPTION (1 OF 2)

SHEET IDENTIFICATION
X-00



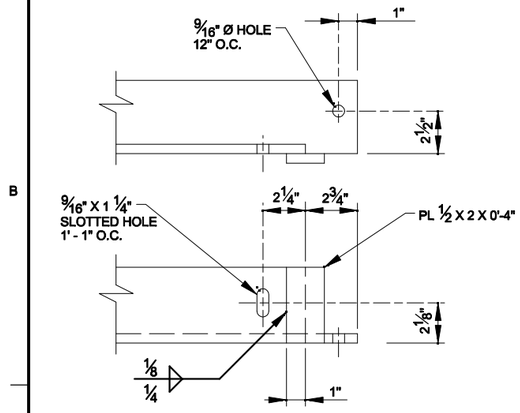
END ELEVATION - PROTECTED SIDE

SCALE: 3" = 1' - 0"



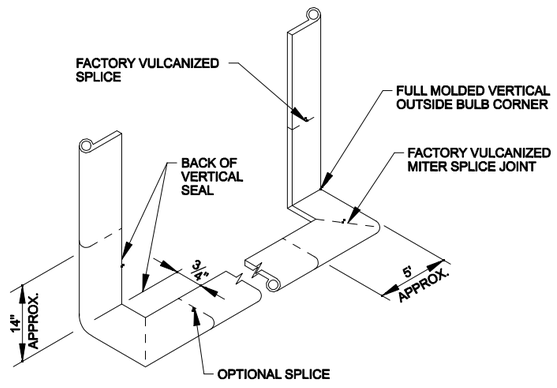
SECTION (A)

SCALE: 3" = 1' - 0"



END OF L 4 X 3 1/2 X 1/2

SCALE: 3" = 1' - 0"



CORNER DETAIL, TYPICAL BOTH SIDES

PEDESTRIAN GATE SEAL

NOT TO SCALE

NOTES:

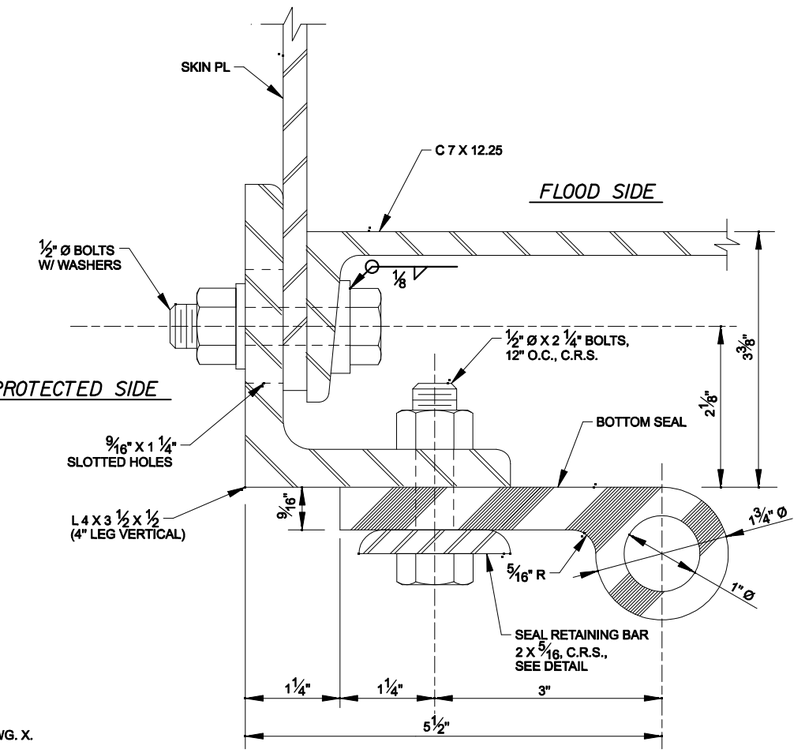
FOR GENERAL NOTES, SEE DWG. X.

ALL SPLICES WILL BE FACTORY MADE IN HEAVY STEEL PRESS TYPE MOLDS UNDER PRESSURE AND HEAT.

ALL SPLICE JOINTS MUST DEVELOP STRENGTH OF AT LEAST 50% ON THE MINIMUM TENSILE STRENGTH REQUIRED OF THE RUBBER.

SEAL CLAMP ANGLES SHALL BE PAINTED ON ALL SIDES PRIOR TO ASSEMBLY.

AFTER ASSEMBLY AND SEAL ADJUSTMENTS ARE MADE, ALL GAPS IN SEALS AND SEAL SUPPORTS SHALL BE SEALED WITH A SILICONE RUBBER SEALANT TO PROVIDE WATERTIGHT JOINTS.



NOTE: SEAL SET FOR 1/8" DEFLECTION.

SECTION (B)

SCALE: 1" = 1' - 0"

SCALE: 3"=1'

0 3" 6" 9" 12"

SCALE:1"=1"

0 1" 2"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

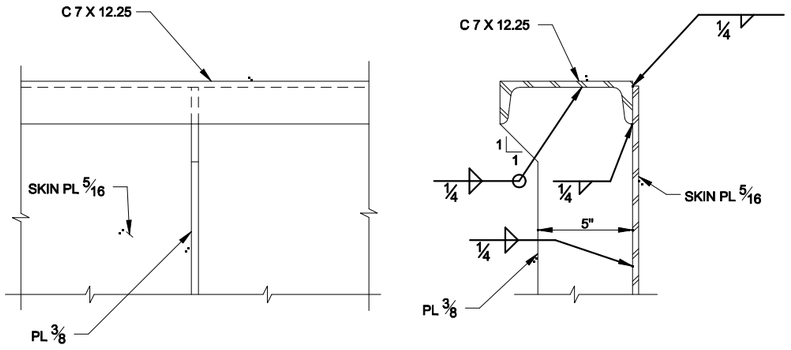
DESIGNED BY: USACE - NEW ORLEANS
DRWN BY:
SUBMITTED BY:
DATE: MAY 2008
CKD BY:
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1=1
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYPFLDGN

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

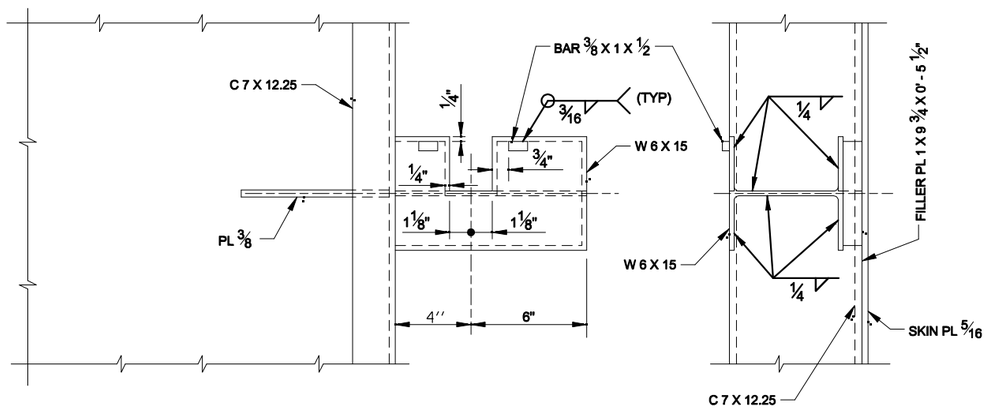
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS

PEDESTRIAN GATES
SEAL DETAILS
FLOODSIDE OPTION (2 OF 2)

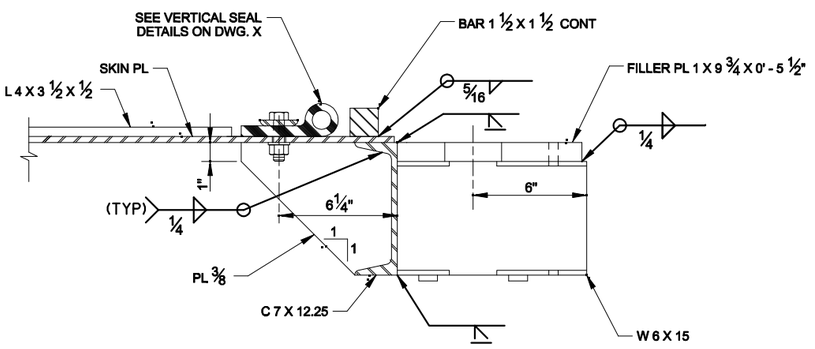
SHEET IDENTIFICATION
X-00



DETAIL 1/XX

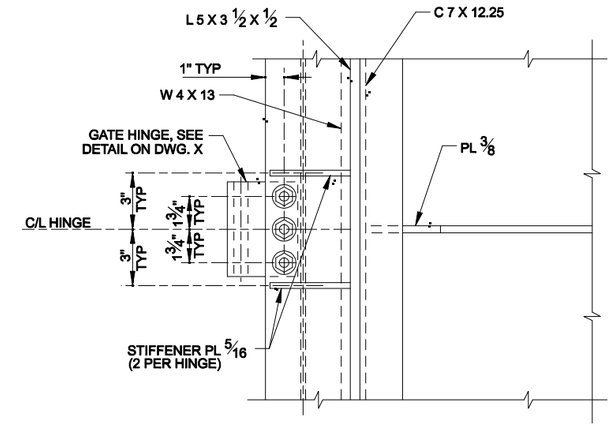


PROTECTED SIDE

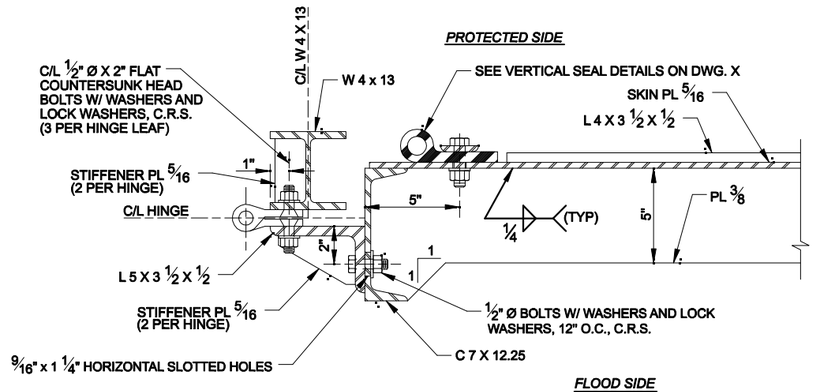


FLOOD SIDE

DETAIL 3/XX



PROTECTED SIDE



FLOOD SIDE

DETAIL 2/XX

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X.
FOR PLAN AND PROFILE, SEE DWGS. X, X, AND X.
FOR TYPICAL WALL SECTIONS, SEE DWG. X.
FOR GATE MONOLITH MASONRY DETAILS, SEE DWG. X.
FOR SEAL DETAILS, SEE DWG. X.
FOR MISCELLANEOUS DETAILS, SEE DWG. X.

SCALE: 3"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

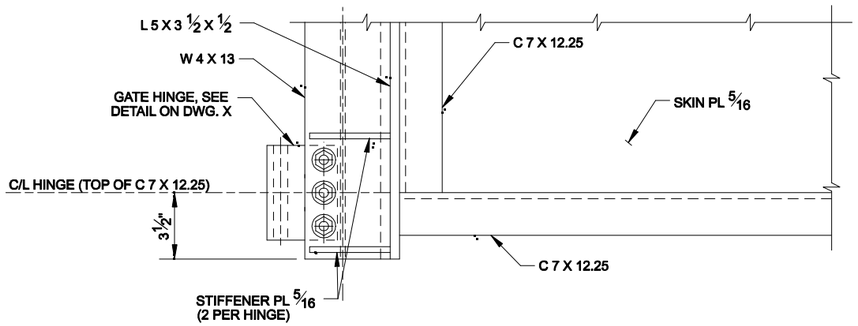
MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

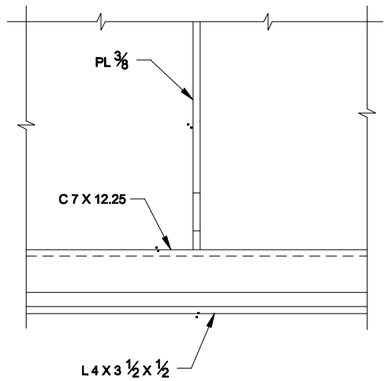
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

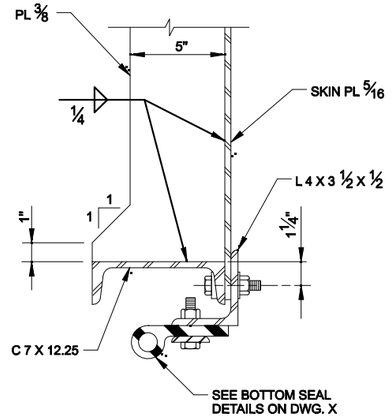
DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1'-0" = 1'-0"
PLOT DATE:
FILE NUMBER: A/E TYPICALS
SIZE: ANSI D
FILE NAME: AE-TYPFLDGN

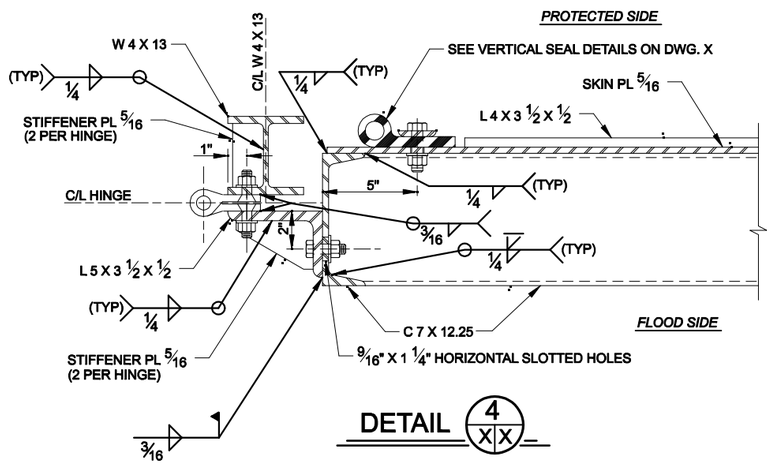
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
HINGE DETAILS
FLOODSIDE OPTION (1 OF 2)

SHEET IDENTIFICATION
X-00

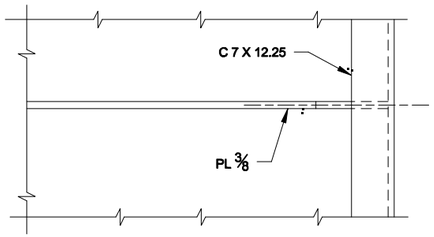




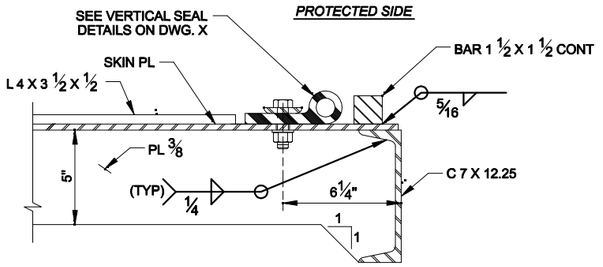




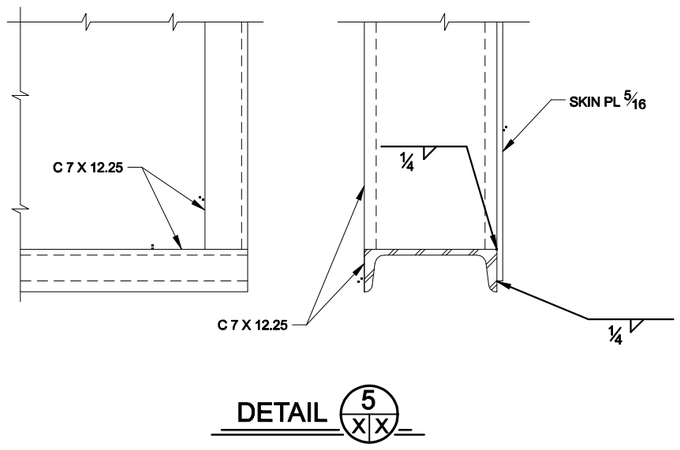
DETAIL 4/XX



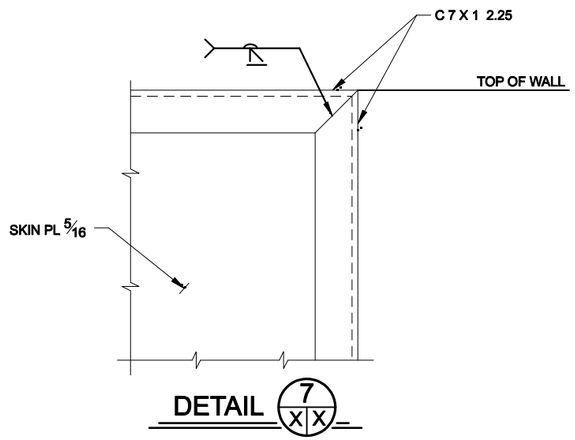
NOTE:
SEAL ASSEMBLY SHOWN IN SOME VIEWS FOR ORIENTATION ONLY.



DETAIL X/XX



DETAIL 5/XX



DETAIL 7/XX

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X.
FOR PLAN AND PROFILE, SEE DWGS. X, X, AND X.
FOR TYPICAL WALL SECTIONS, SEE DWG. X.
FOR GATE MONOLITH MASONRY DETAILS, SEE DWG. X.
FOR SEAL DETAILS, SEE DWG. X.
FOR MISCELLANEOUS DETAILS, SEE DWG. X.

SCALE: 3"=1'
0 3" 6" 9" 12"

US Army Corps of Engineers
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

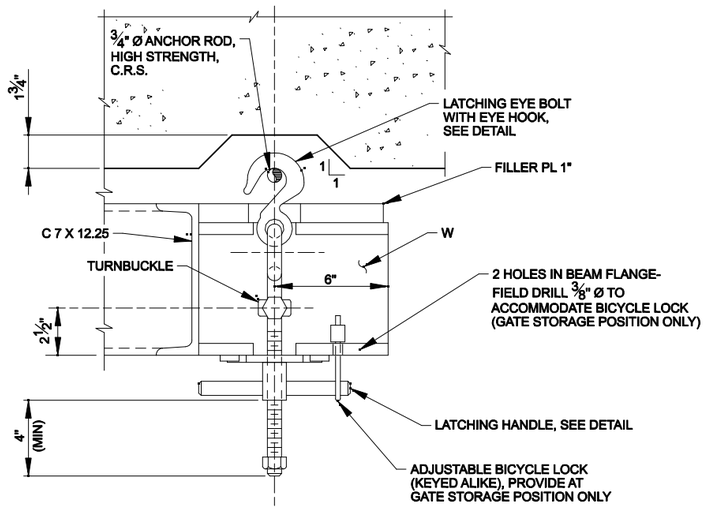
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
PLOT SCALE:
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYP7LDGN
DATE: MAY 2009
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS

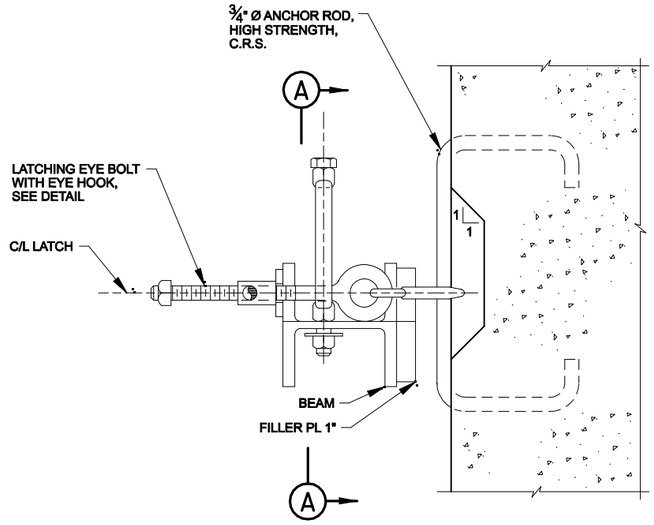
USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
HINGE DETAILS
FLOODSIDE OPTION (2 OF 2)

SHEET IDENTIFICATION
X-00

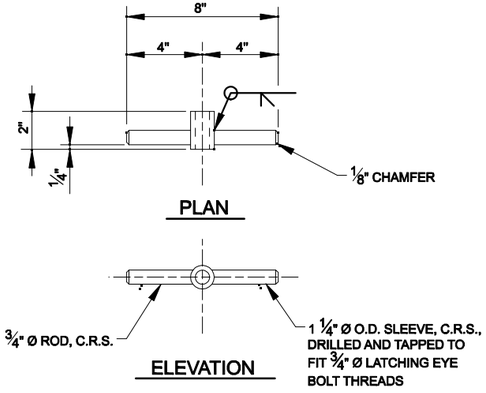


PLAN

SCALE: 3" = 1' - 0"

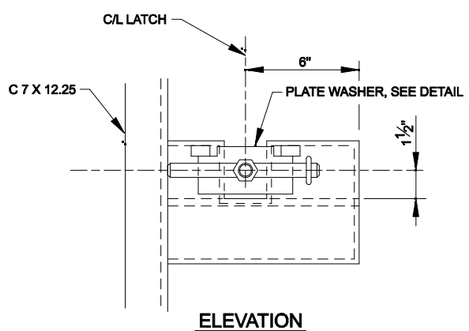


SECTION AT C/L OF LATCHING DEVICE



LATCHING HANDLE

SCALE: 3" = 1' - 0"

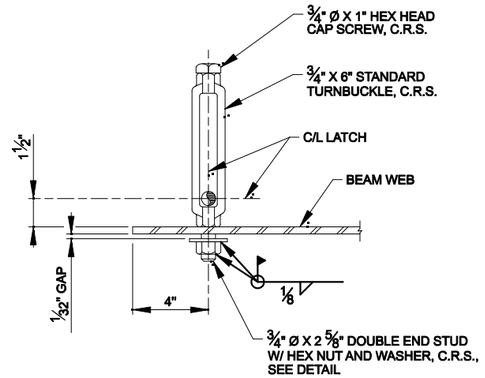


ELEVATION

SCALE: 6" = 1' - 0"

DETAIL (1)

LATCHING DEVICE



SECTION (A)

SCALE: 3" = 1' - 0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X.

FOR PLAN AND PROFILE, SEE DWGS. X, X, AND X.

FOR TYPICAL WALL SECTIONS, SEE DWG. X.

FOR GATE MONOLITH MASONRY DETAILS, SEE DWG. X.

FOR MISCELLANEOUS DETAILS, SEE DWG. X.

SCALE: 3"=1'

0 3" 6" 9" 12"

SCALE: 6"=1'

0 3" 6" 9" 12"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

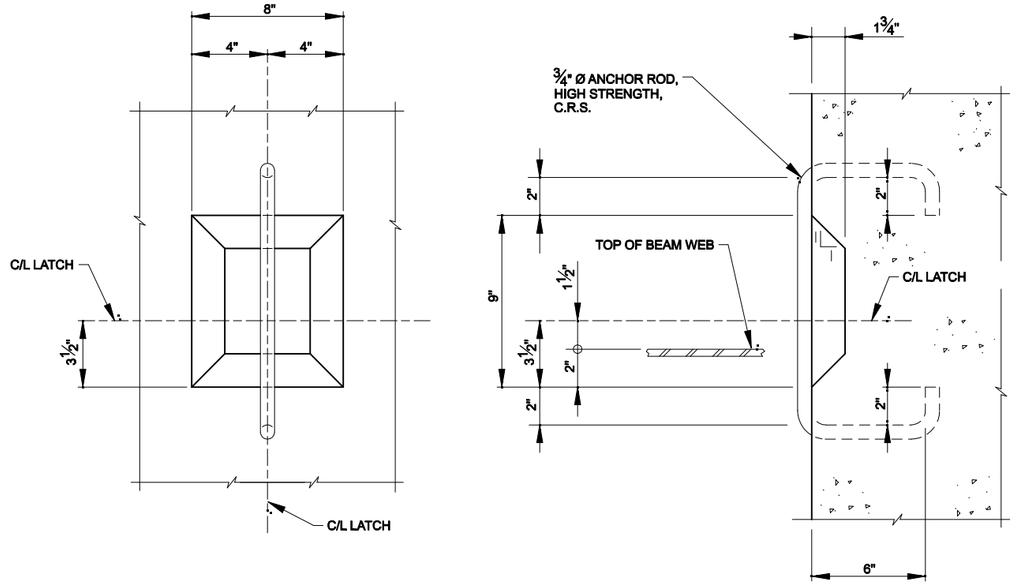
U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
PLOT SCALE: 1" = 1'
PLOT DATE:
SIZE: ANSI D
DATE: MAY 2008
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER: A/E TYPICALS
FILE NAME: AE-TYPFLDGN

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS

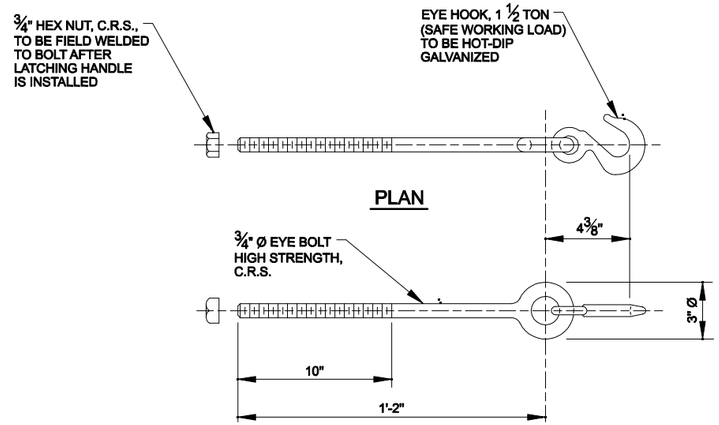
PEDESTRIAN GATES
LATCHING DETAILS
FLOODSIDE OPTION (1 OF 2)

SHEET IDENTIFICATION
X-00



DETAIL (2)

SCALE: 3" = 1' - 0"



ELEVATION

LATCHING EYE BOLT WITH EYE HOOK

SCALE: 3" = 1' - 0"

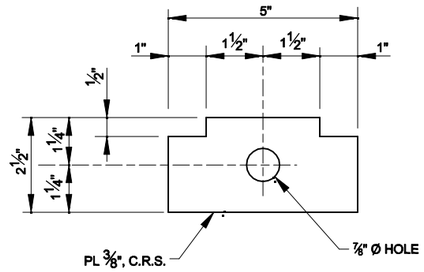
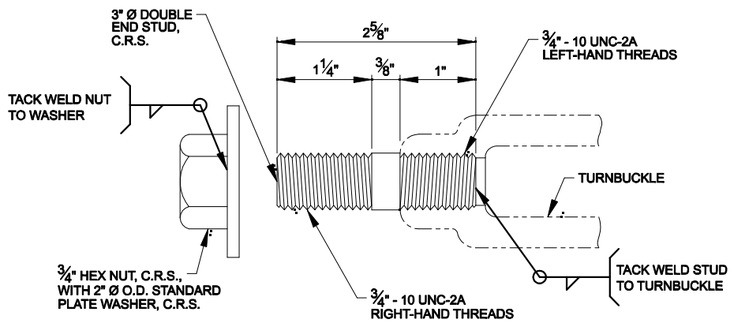


PLATE WASHER

SCALE: 6" = 1' - 0"



DOUBLE END STUD

SCALE: 12" = 1' - 0"

REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. X.
FOR PLAN AND PROFILE, SEE DWGS. X, X, AND X.
FOR TYPICAL WALL SECTIONS, SEE DWG. X.
FOR GATE MONOLITH MASONRY DETAILS, SEE DWG. X.
FOR MISCELLANEOUS DETAILS, SEE DWG. X.

SCALE: 3"=1'
0 3" 6" 9" 12"

SCALE:1"=1'
0 1" 2"

US Army Corps of Engineers®
NEW ORLEANS DISTRICT

MARK	DESCRIPTION	DATE	APPR.
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: USACE - NEW ORLEANS
DWN BY:
CKD BY:
SUBMITTED BY:
DATE: MAY 2006
SOLICITATION NO.:
CONTRACT NO.:
PLOT SCALE: 1:1
PLOT DATE:
SIZE: ANSI D
FILE NAME: AE-TYPFLDSN
FILE NUMBER: A/E TYPICALS

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

USACE - NEW ORLEANS
HURRICANE DESIGN GUIDELINES
A/E TYPICAL DRAWINGS
-
PEDESTRIAN GATES
LATCHING DETAILS
FLOODSIDE OPTION (2 OF 2)

SHEET IDENTIFICATION
X-00