

East Bench Canal Company

Typical Drawings

Sheet Index

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- 2 TRASHRACK AND INLET STRUCTURE
- 3 3-FOOT CIPOLLETTI WEIR
- 4 1-FOOT PARSHALL FLUME
- 5 90° V-NOTCH WEIR
- 6 IRRIGATION BUBBLE UP BOX
- 7 IRRIGATION TURNOUT-DIVERSION BOX
- 8 WATERMAN C-10 CANAL GATE, REBAR IN HEADWALL, THRUST RESTRAINT

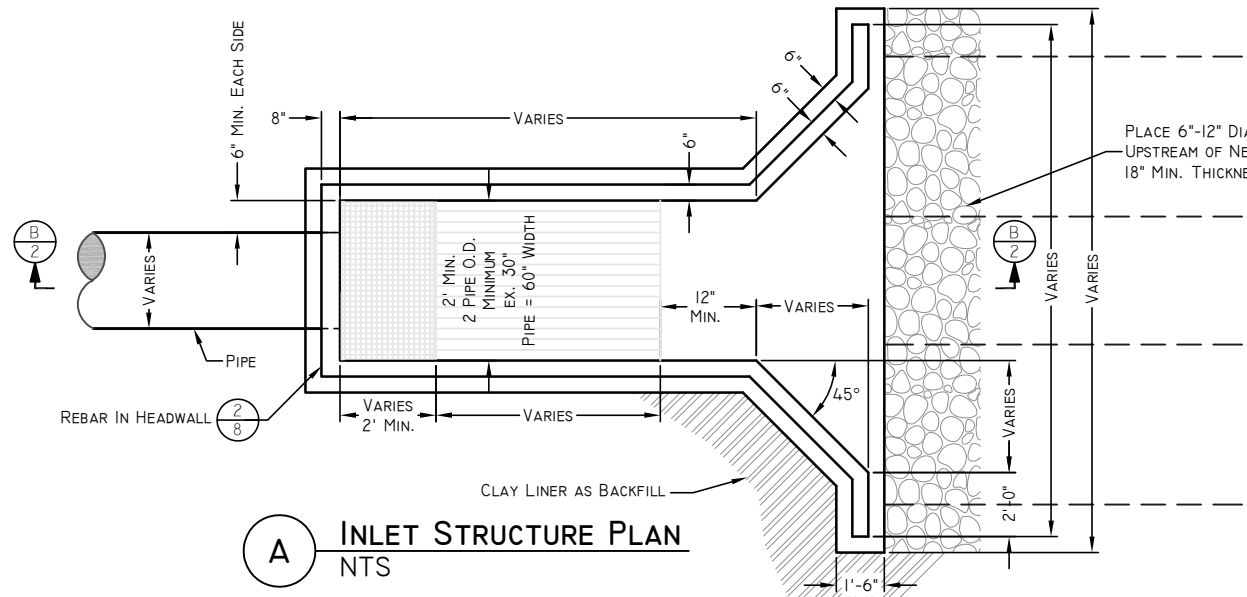
DISCLAIMER:

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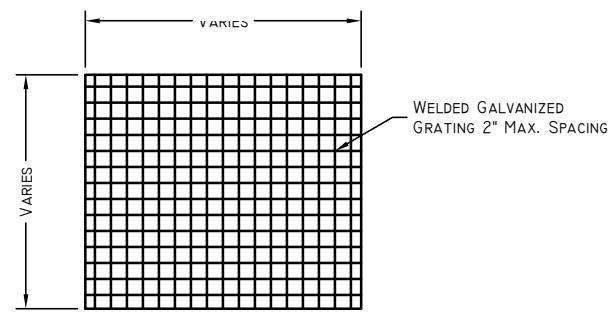
EAST BENCH
CANAL COMPANY

DESIGNER:	CHAD BROWN	CHECKED:	CHAD BROWN	PROJECT LEADER:	CHAD BROWN
DRAFTSMAN:	MATT GURR	REVIEWED:	REVIEWED	PRINT DATE:	SEPTEMBER 1, 2021
NO.	DATE	REVISIONS			
		DESCRIPTION			

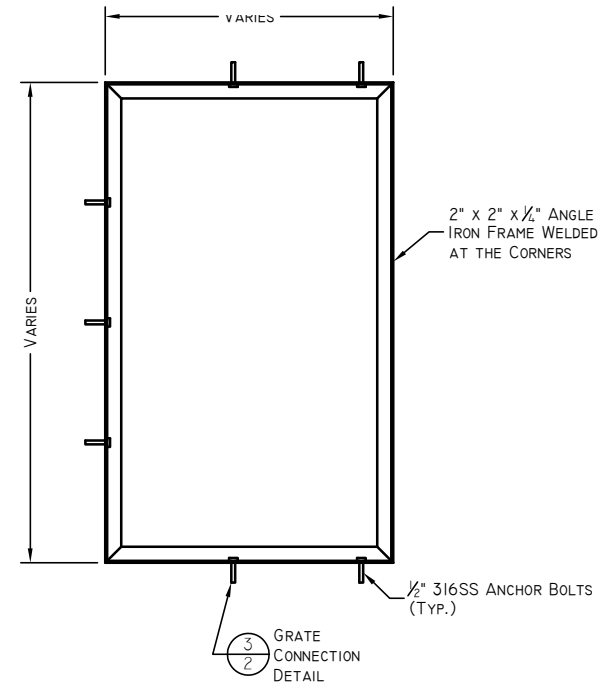
EAST BENCH CANAL COMPANY
TYPICAL DRAWINGS
COVER SHEET, SHEET INDEX
 01 - Cover Sheet.dwg
 0/2/0007 EAST BENCH Reviews 2020/Drawings/Standard Drawings



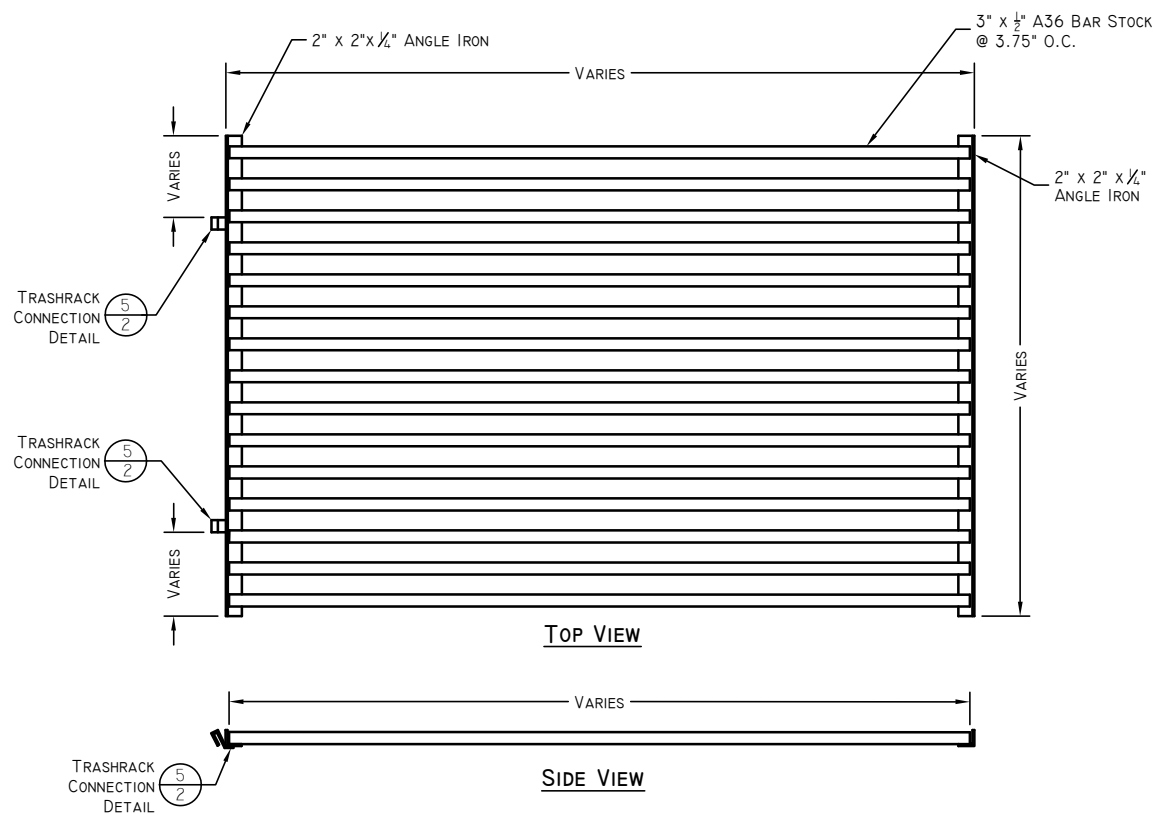
A INLET STRUCTURE PLAN
NTS



1 GRATE DETAIL
NTS

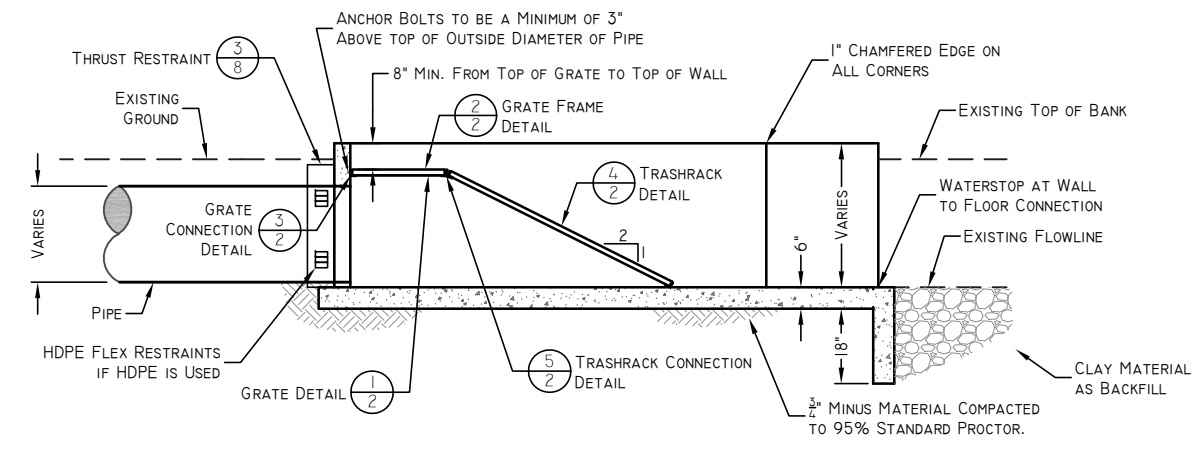


2 GRATE FRAME DETAIL
NTS



4 TRASHRACK DETAIL
NTS

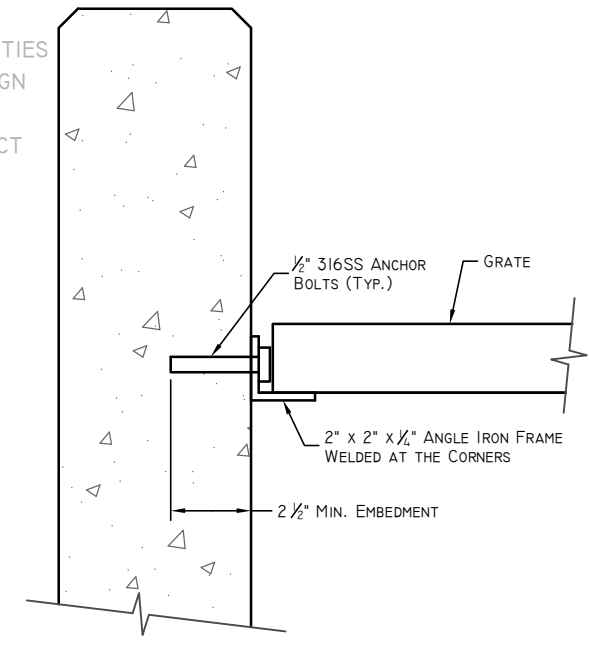
- NOTES:
1. IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT 12 INCHES ON CENTER (O.C.) EACH WAY (E.W.) MINIMUM.
 2. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
 3. SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL.
 4. MINIMUM TWO GRATES TO BE INSTALLED. SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL.
 5. WATERSTOP REQUIRED AT ALL COLD JOINTS.



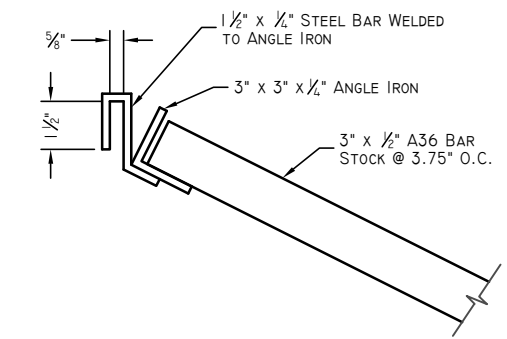
B INLET STRUCTURE PROFILE
NTS

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3 GRATE CONNECTION DETAIL
NTS



5 TRASHRACK CONNECTION DETAIL
NTS

TABLE I FOR DETAIL 5/2

TRASHRACK CONNECTIONS REQUIRED	
PIPE SIZE	NUMBER OF CONNECTIONS REQUIRED
24" AND SMALLER	4
> 30"	5

NO.	DATE	DESCRIPTION

EAST BENCH CANAL COMPANY
TYPICAL DRAWINGS
TRASHRACK AND INLET STRUCTURE
02-Trashrack and Inlet Structure.dwg
03/2007 EAST BENCH Reviews 2020/Drawing Standards

EAST BENCH
CANAL COMPANY

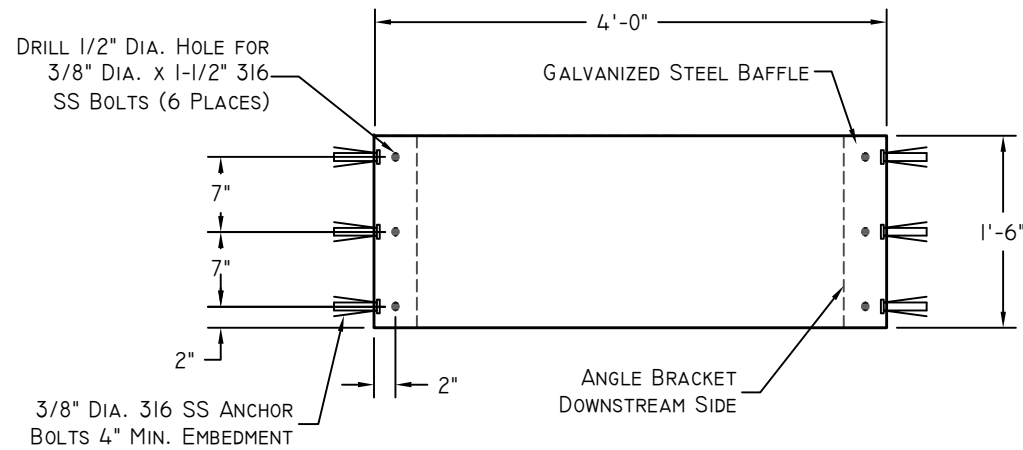
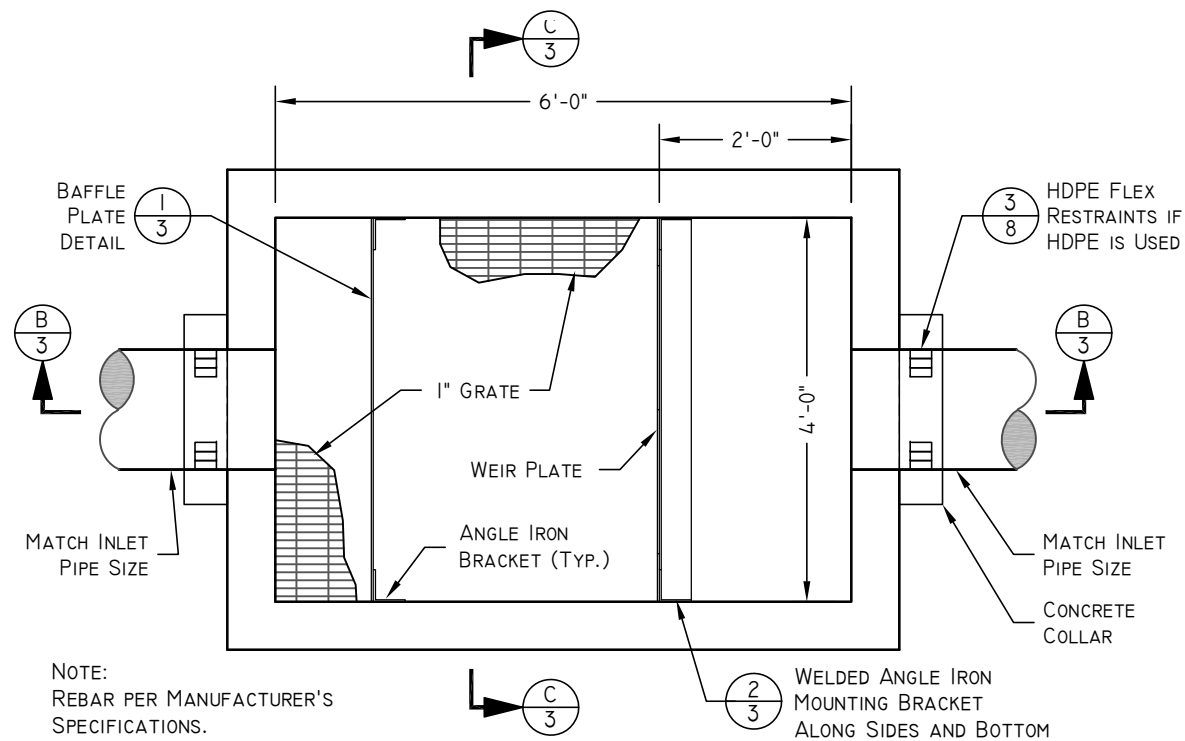
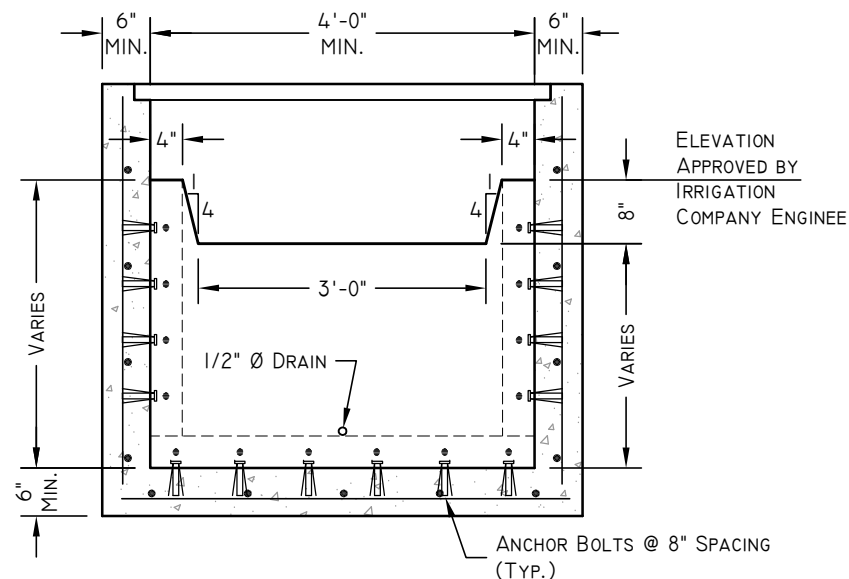
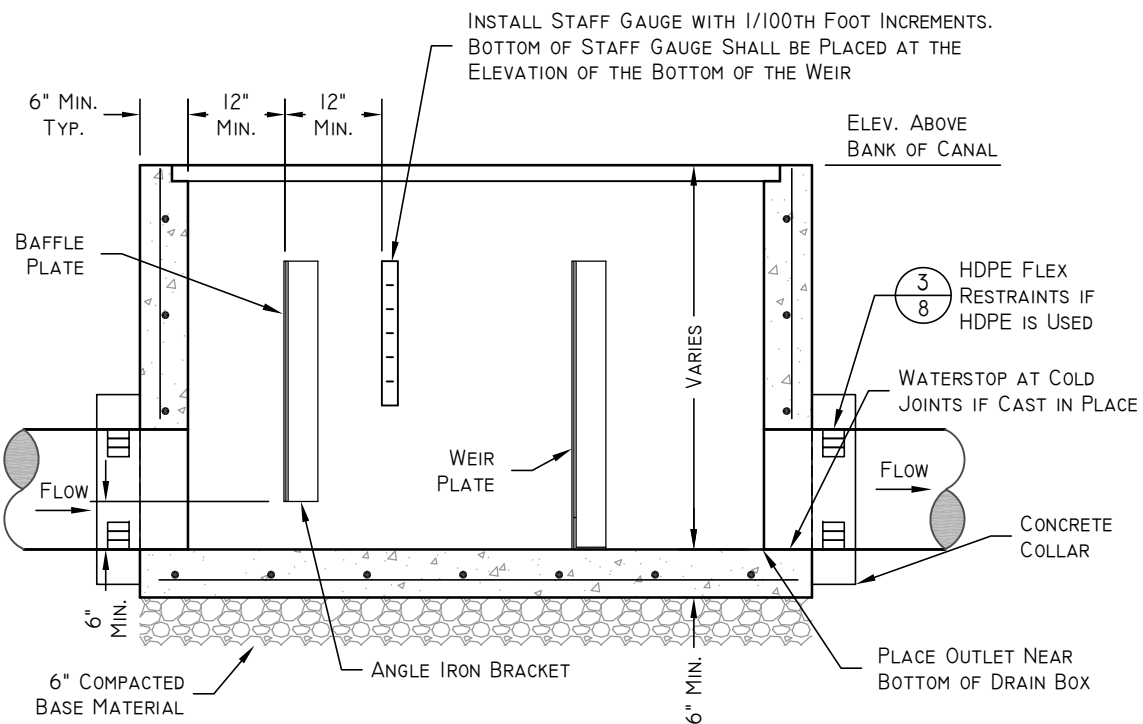
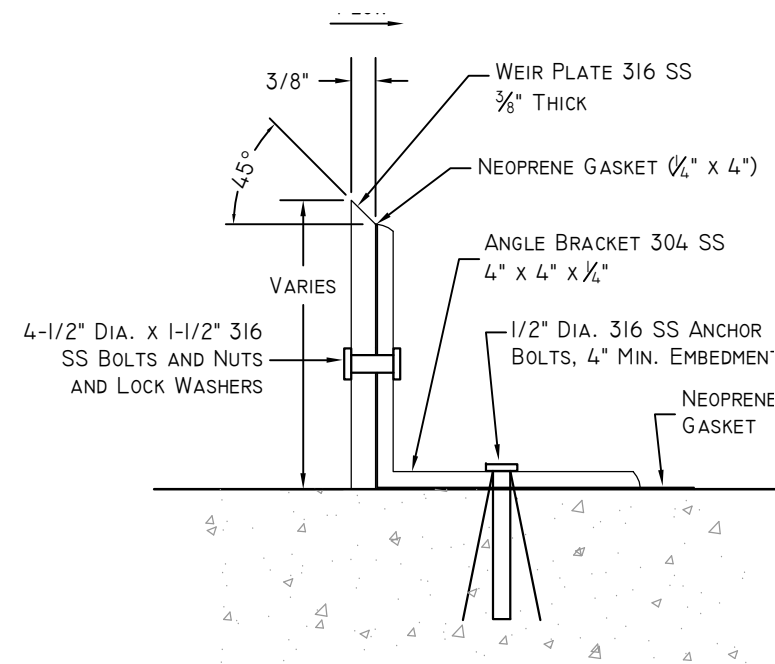


TABLE 1
 $Q=3.367 LH^{3/2} @ L=3$

H (FT.)	Q (CFS)
0.2	0.90
0.3	1.66
0.4	2.56
0.5	3.57
0.6	4.69
0.66	5.42



NOTE: PLACE #4 REBAR AT 12" O.C. E.W. IN STRUCTURE FLOOR AND WALLS

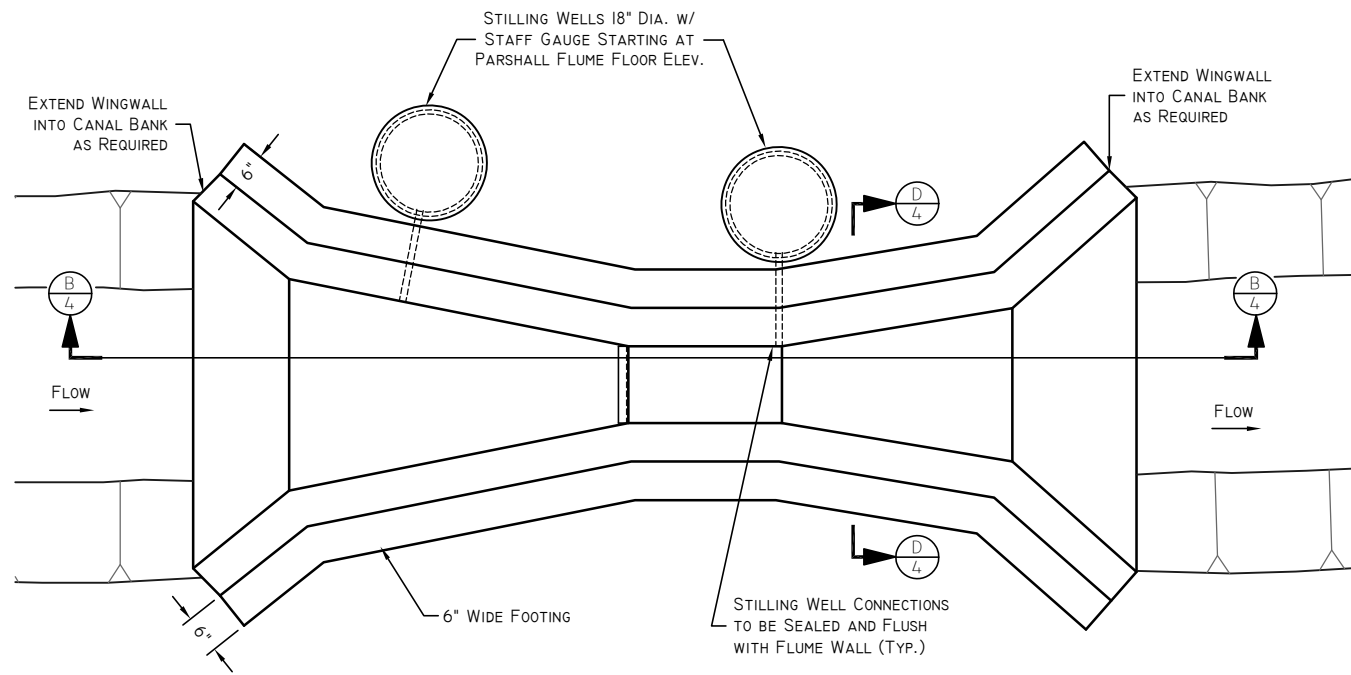
- NOTES:
- IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT 12" O.C. E.W. MINIMUM.
 - ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
 - SUBMIT TO IRRIGATION COMPANY ENGINEER FOR APPROVAL ON FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
 - PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING.

DISCLAIMER:

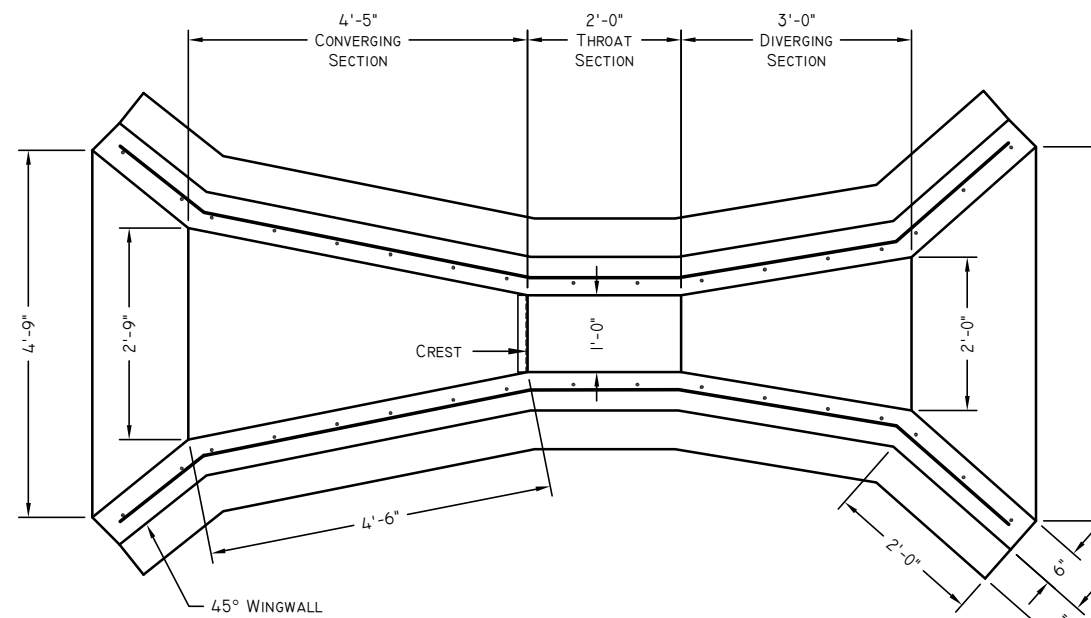
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NO.	DATE	REVISIONS	DESCRIPTION

EAST BENCH CANAL COMPANY
TYPICAL DRAWINGS
3-FOOT CIPOLLETTI WEIR
DESIGNER: CHAD BROWN
DRAFTSMAN: MATT GARR
JOB NO.



A PLAN



C REBAR PLAN

**TABLE I
HEAD-FLOW RELATIONSHIP
FOR CONCRETE FLUME**

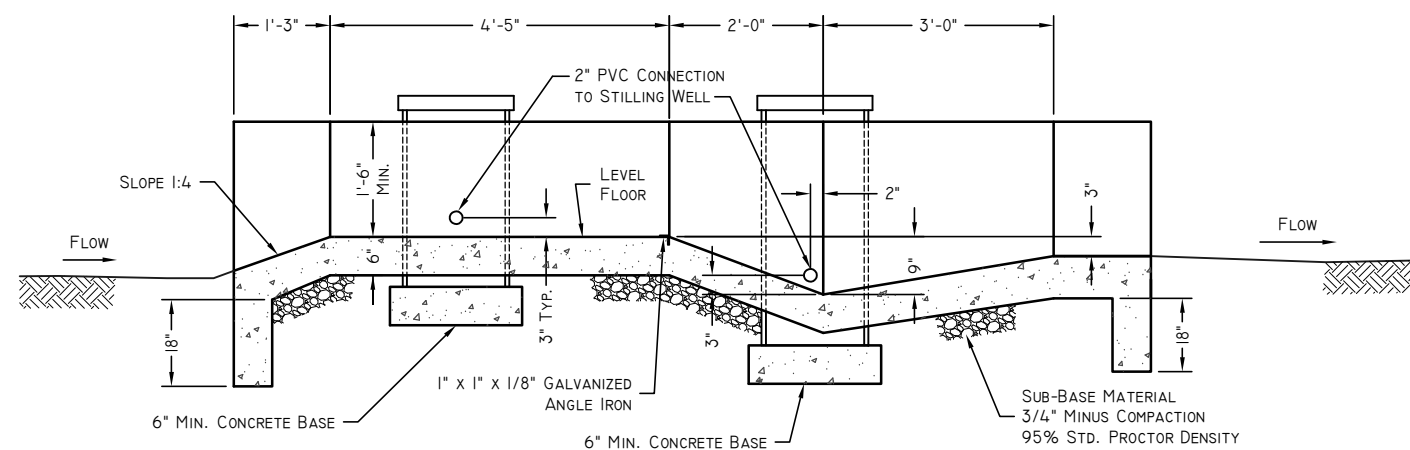
HEAD H_a (FEET)	FLOW Q (CFS)	HEAD H_a (FEET)	FLOW Q (CFS)
0.20	0.35	0.86	3.18
0.21	0.37	0.87	3.24
0.22	0.40	0.88	3.29
0.23	0.43	0.89	3.35
0.24	0.46	0.90	3.41
0.25	0.49	0.91	3.46
0.26	0.51	0.92	3.52
0.27	0.54	0.93	3.58
0.28	0.58	0.94	3.64
0.29	0.61	0.95	3.70
0.30	0.64	0.96	3.76
0.31	0.68	0.97	3.82
0.32	0.71	0.98	3.88
0.33	0.74	0.99	3.94
0.34	0.77	1.00	4.00
0.35	0.80	1.01	4.06
0.36	0.84	1.02	4.12
0.37	0.88	1.03	4.18
0.38	0.92	1.04	4.25
0.39	0.95	1.05	4.31
0.40	0.99	1.06	4.37
0.41	1.03	1.07	4.43
0.42	1.07	1.08	4.50
0.43	1.11	1.09	4.56
0.44	1.15	1.10	4.62
0.45	1.19	1.11	4.68
0.46	1.23	1.12	4.75
0.47	1.27	1.13	4.82
0.48	1.31	1.14	4.88
0.49	1.35	1.15	4.94
0.50	1.39	1.16	5.01
0.51	1.44	1.17	5.08
0.52	1.48	1.18	5.15
0.53	1.52	1.19	5.21
0.54	1.57	1.20	5.28
0.55	1.62	1.21	5.34
0.56	1.66	1.22	5.41
0.57	1.70	1.23	5.48
0.58	1.75	1.24	5.55
0.59	1.80	1.25	5.62
0.60	1.84	1.26	5.69
0.61	1.88	1.27	5.76
0.62	1.93	1.28	5.82
0.63	1.98	1.29	5.89
0.64	2.03	1.30	5.96
0.65	2.08	1.31	6.03
0.66	2.13	1.32	6.10
0.67	2.18	1.33	6.18
0.68	2.23	1.34	6.25
0.69	2.28	1.35	6.32
0.70	2.33	1.36	6.39
0.71	2.38	1.37	6.46
0.72	2.43	1.38	6.53
0.73	2.48	1.39	6.60
0.74	2.53	1.40	6.68
0.75	2.58	1.41	6.75
0.76	2.63	1.42	6.82
0.77	2.68	1.43	6.89
0.78	2.74	1.44	6.97
0.79	2.80	1.45	7.04
0.80	2.85	1.46	7.12
0.81	2.90	1.47	7.19
0.82	2.96	1.48	7.26
0.83	3.02	1.49	7.34
0.80	3.07	1.50	7.41
0.85	3.12		

DISCLAIMER:

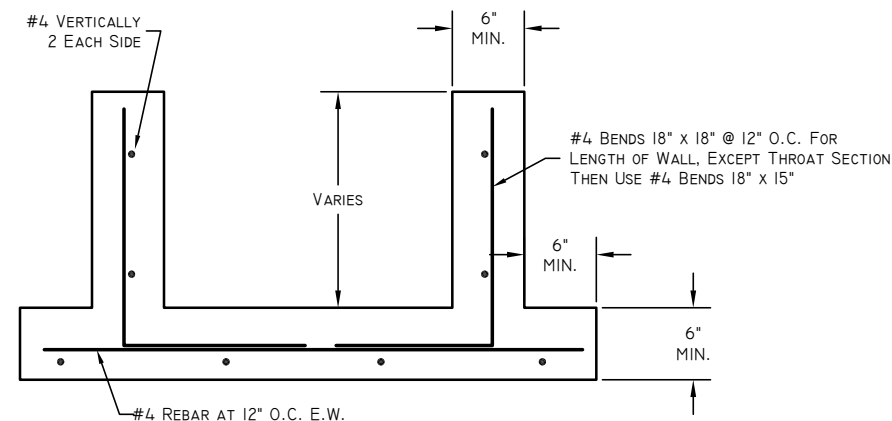
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NOTES:

1. REINFORCING TO BE #4 REBAR @ 12-INCHES O.C. E.W. WITH 20-INCH MINIMUM SPLICE LENGTH.
2. REBAR TO BE BENT AT ANGLES OF STRUCTURES. OVERLAP TO BE IN STRAIGHT LENGTHS ONLY.
3. APPLICANT TO SUBMIT ACTUAL PLANS AND MATERIAL OF FLUME PRIOR TO CONSTRUCTION.
4. PREMANUFACTURED FLUMES ARE ALSO ACCEPTABLE. PROVIDE MANUFACTURERS PRODUCT INFORMATION AND FLOW CHART FOR EBCC REVIEW.
5. RAMP FLUMES ARE ALSO ACCEPTABLE. PROVIDE DETAILED PLANS OF RAMP FLUME AND FLOW CHART FOR EBCC REVIEW.



B PROFILE



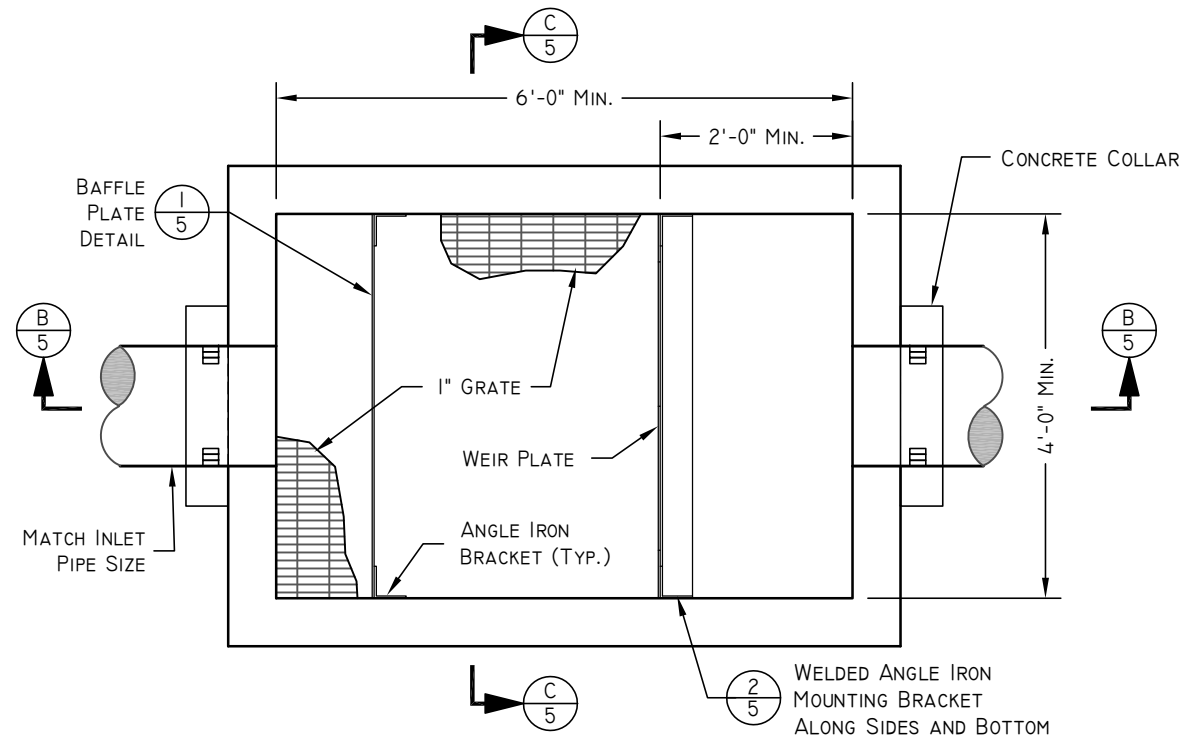
**D CROSS SECTION
NTS**

EAST BENCH CANAL COMPANY
TYPICAL DRAWINGS
I-FOOT PARSHALL FLUME

JOB NO. _____
SHEET 4 OF 8

06- 1 foot Parshall Flume.dwg
03/2007 EAST BENCH Reviews 2020/DrawingStandard Drawings

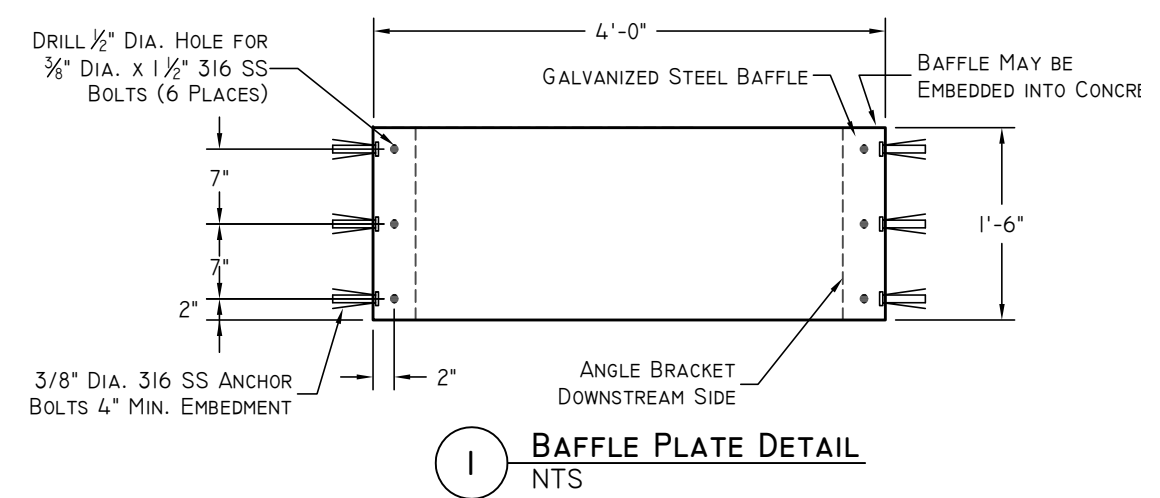
DESIGNER:	DRAFTSMAN:	NO.	DATE	DISCUSSION	
CHECKED:	REVIEWED:	CHECKED:	REVIEWED:	REVISIONS	
PROJECT LEADER:	PRINT DATE:				



A PLAN VIEW
NTS

FLOW TABLE
 $Q = CW \times H^{2.5}$

CW	Q
H (FT.)	(CFS)
0.20	0.04
0.30	0.12
0.40	0.25
0.50	0.44
0.60	0.70
0.70	1.02
0.80	1.43
0.90	1.92
1.00	2.50
1.10	3.17
1.20	3.94
1.30	4.82
1.40	5.80
1.50	6.89

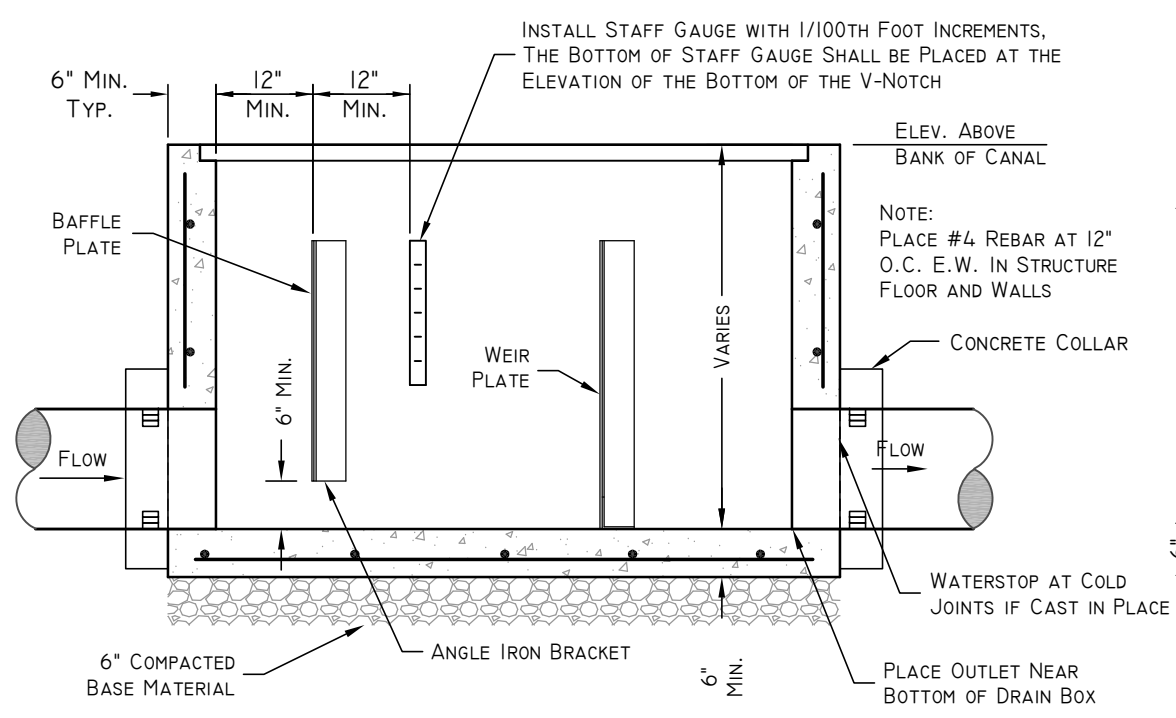


I BAFFLE PLATE DETAIL
NTS

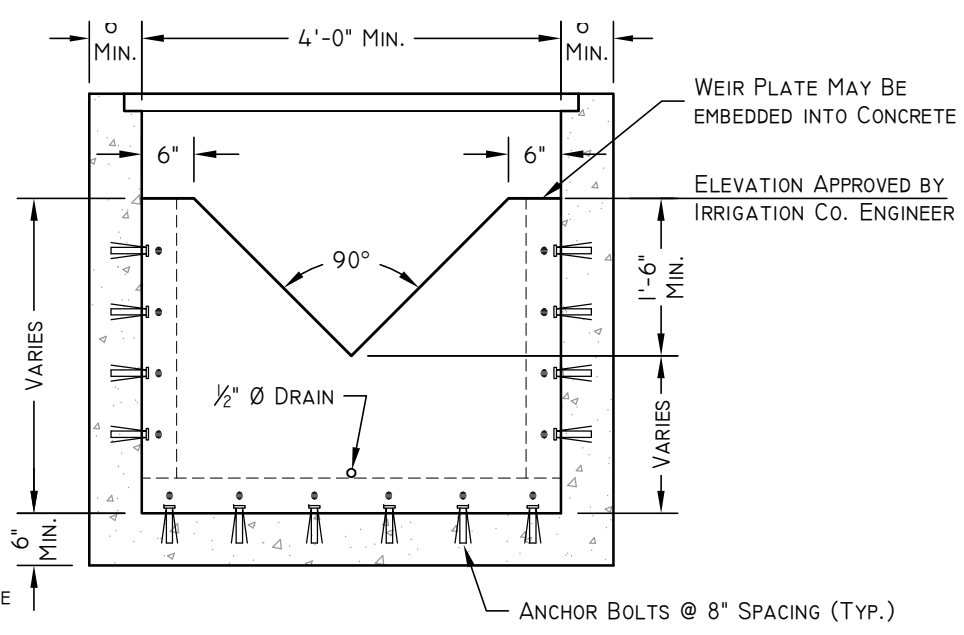
- NOTES:**
- IF BOX IS CAST IN PLACE, PUT #4 REBAR PLACED AT 12" O.C. E.W. IN STRUCTURE FLOOR AND WALLS MINIMUM.
 - ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
 - SUBMIT TO IRRIGATION COMPANY ENGINEER FOR FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
 - PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING

DISCLAIMER:

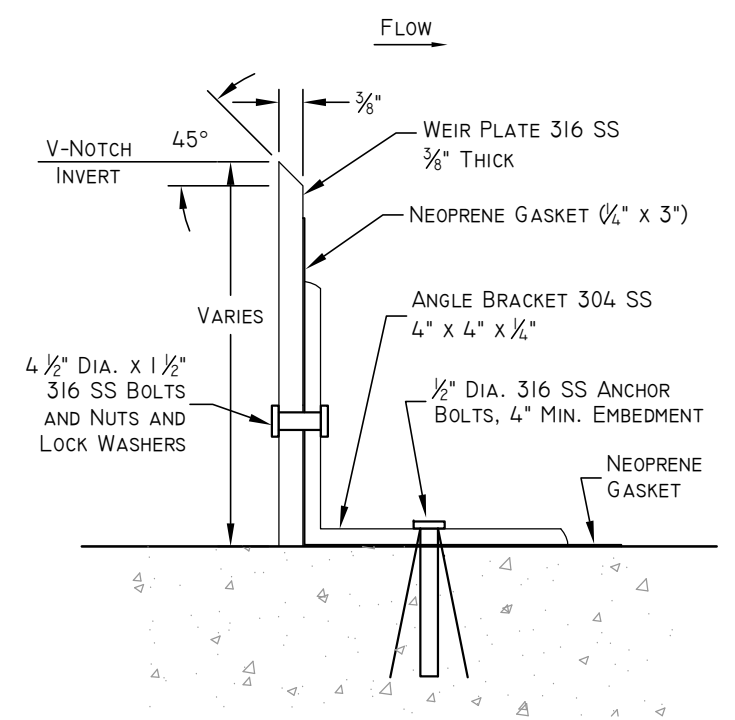
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B SECTION
NTS

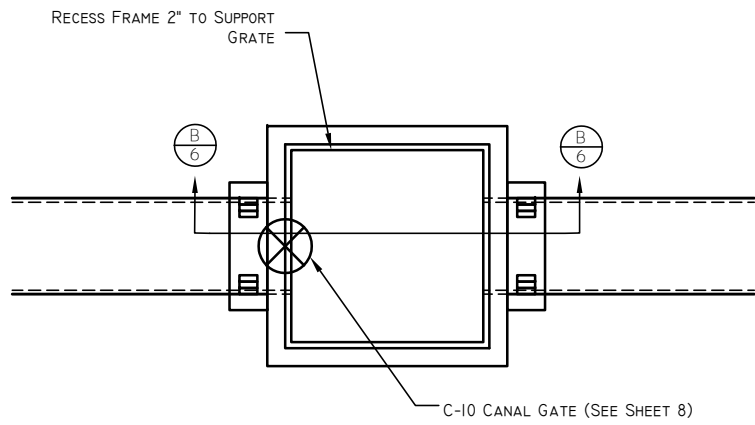


C SECTION
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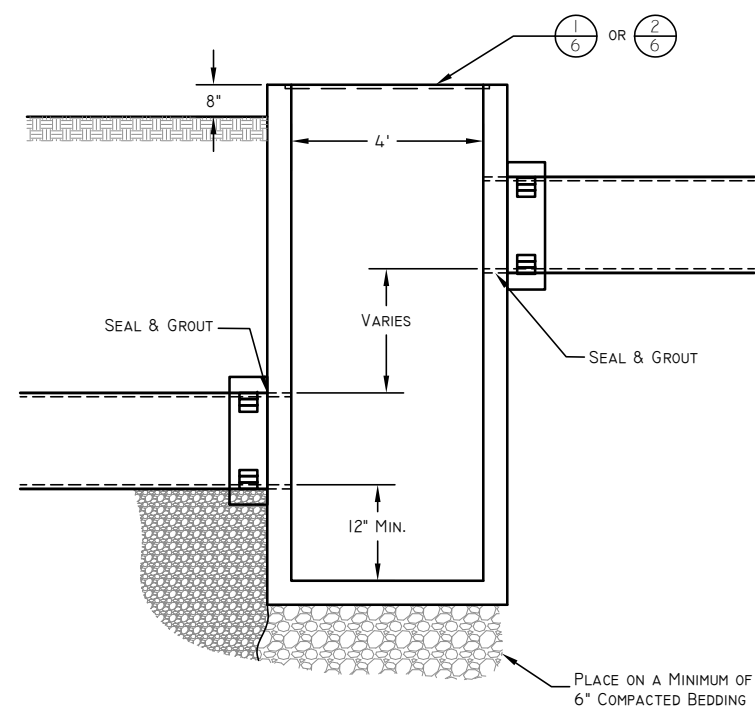


2 ANGLE IRON DETAIL
NTS

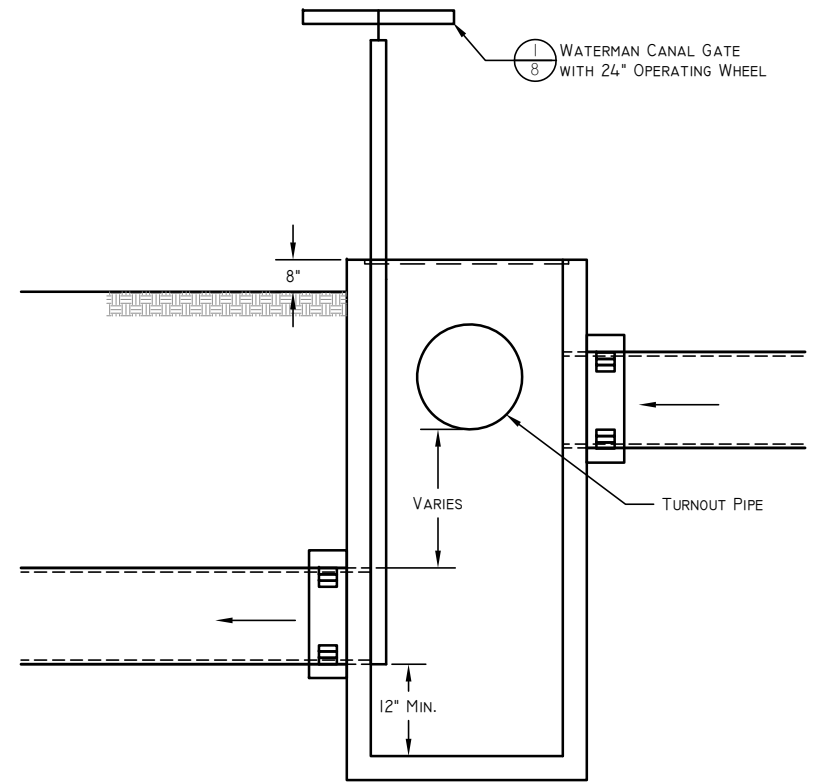
EAST BENCH CANAL COMPANY																					
TYPICAL DRAWINGS 90° V-NOTCH WEIR	DESIGNER: CHAD BROWN	PROJECT LEADER: CHAD BROWN	CHECKED: CHAD BROWN	REVIEWED: CHAD BROWN	NO. DATE	DISCUSSION	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE
	DRAFTER: MATT GUR	PRINT DATE: SEPTEMBER 1, 2021	REVIEWED: MATT GUR	REVIEWED: MATT GUR	NO. DATE	DISCUSSION	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE	NO. DATE
	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.	JOB NO.
SHEET 5 OF 8																					



A 4' x 4' IRRIGATION BOX PLAN
NTS



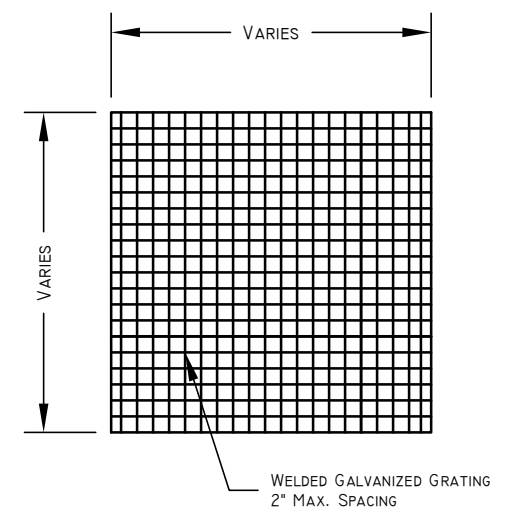
B 4' x 4' IRRIGATION BOX PROFILE
NTS



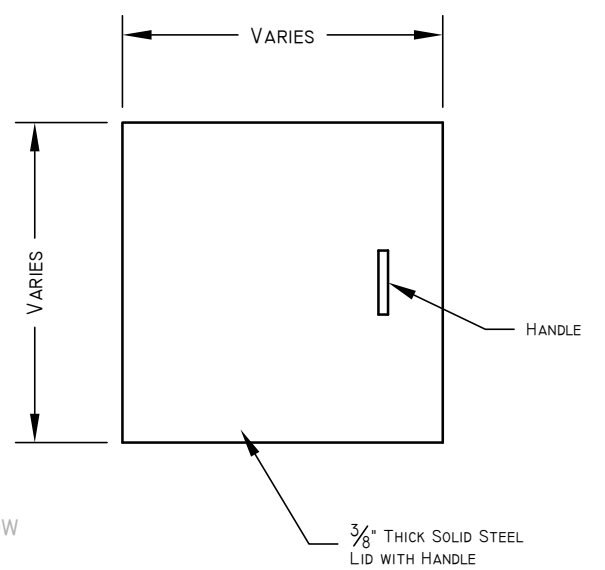
3 BUBBLE UP TURNOUT BOX SECTION
NTS

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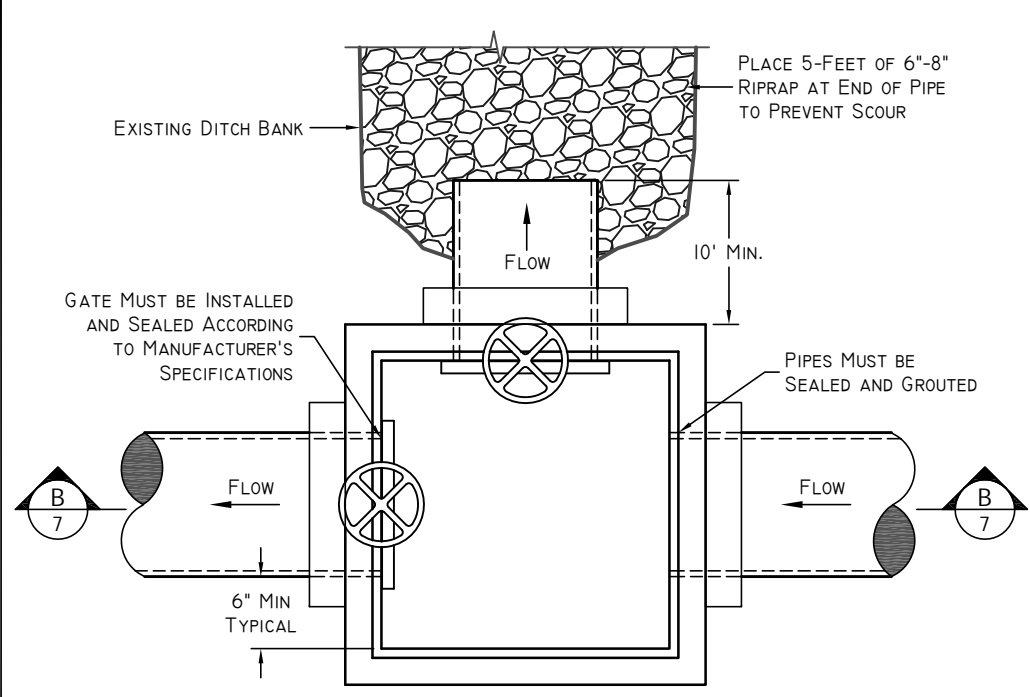
1 GRATE DETAIL
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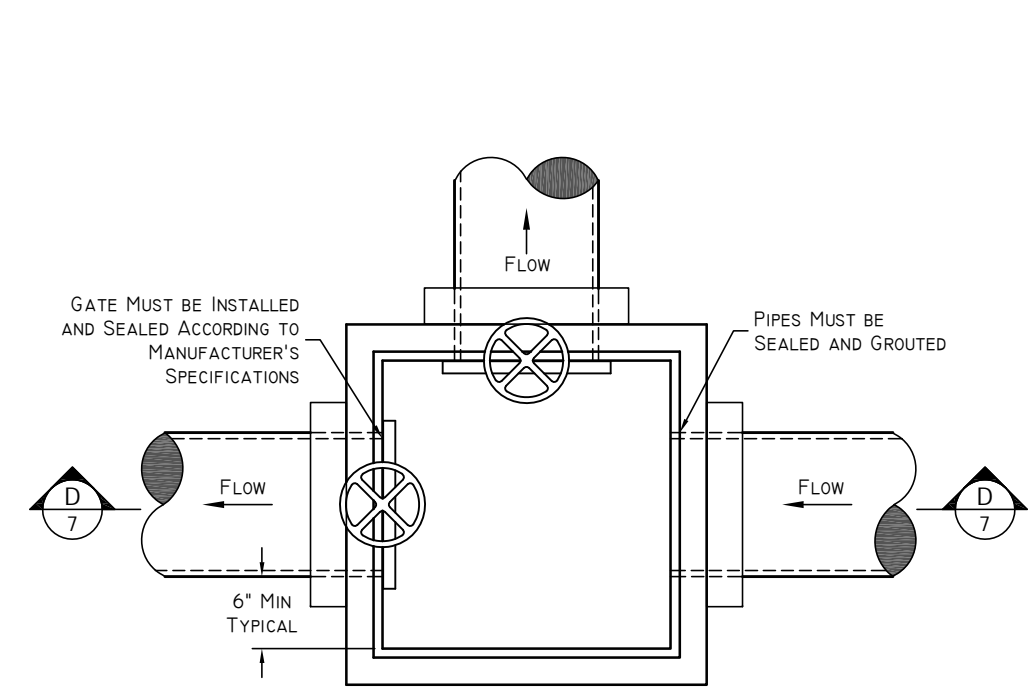
2 SOLID LID
NTS

- NOTES
1. IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT 12" O.C. E.W. MINIMUM.
 2. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
 3. SUBMIT TO ENGINEER FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
 4. MINIMUM PIPE SLOPES FOR PIPE UNDER ROADWAY SEE SHEET 4.
 5. BOXES MAY BE PRECAST OR CAST IN PLACE. BOXES SHALL HAVE A MINIMUM INTERIOR WIDTH AND LENGTH OF 4' WITH #4 REBAR @ 12" O.C. BOXES MUST BE SUBMITTED FOR REVIEW.
 6. IRRIGATION BOXES SHALL NOT BE PLACED IN ROADWAY.
 7. ALL PIPE PLACED IN ROADWAY MUST BE CLASS III RCP.
 8. REMOVAL AND REPLACEMENT OF CANAL BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB.
 9. CAST IN PLACE BOXES MUST HAVE WATERSTOP INSTALLED AT EACH COLD JOINT.
 10. GRATES TO BE NOTCHED OUT AROUND HEADGATES, SUPPORT GRATES ONCE CUT.

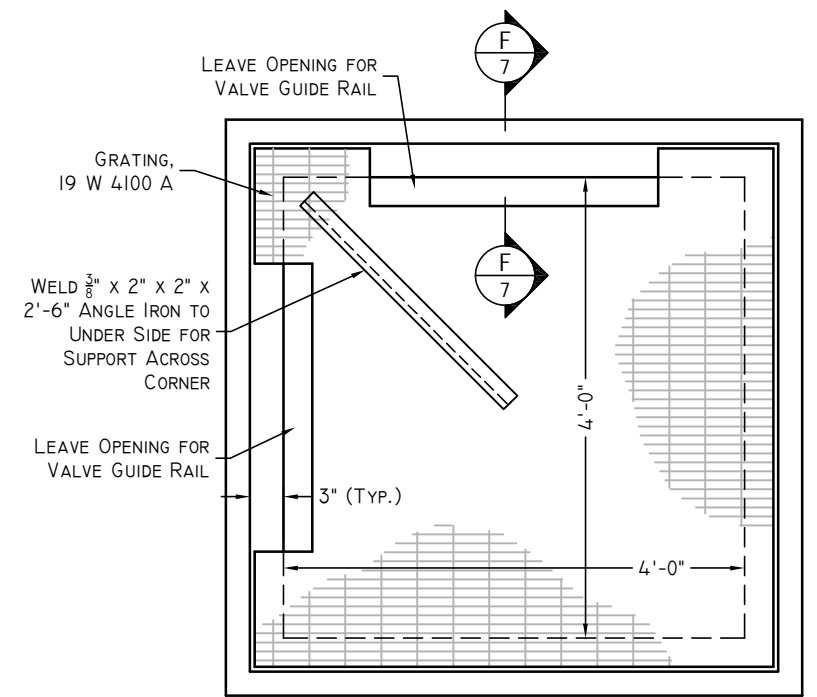
EAST BENCH CANAL COMPANY	
EAST BENCH CANAL COMPANY TYPICAL DRAWINGS IRRIGATION BUBBLE UP BOX	JOB NO.
DESIGNER: CHAD BROWN DRAFTSMAN: MATT GURR	DATE: INTS
CHECKED: CHAD BROWN REVIEWED: MATT GURR	REVISIONS
PROJECT LEADER: CHAD BROWN	DESCRIPTION
PRINT DATE: SEPTEMBER 1, 2021	
SHEET 6 OF 8	



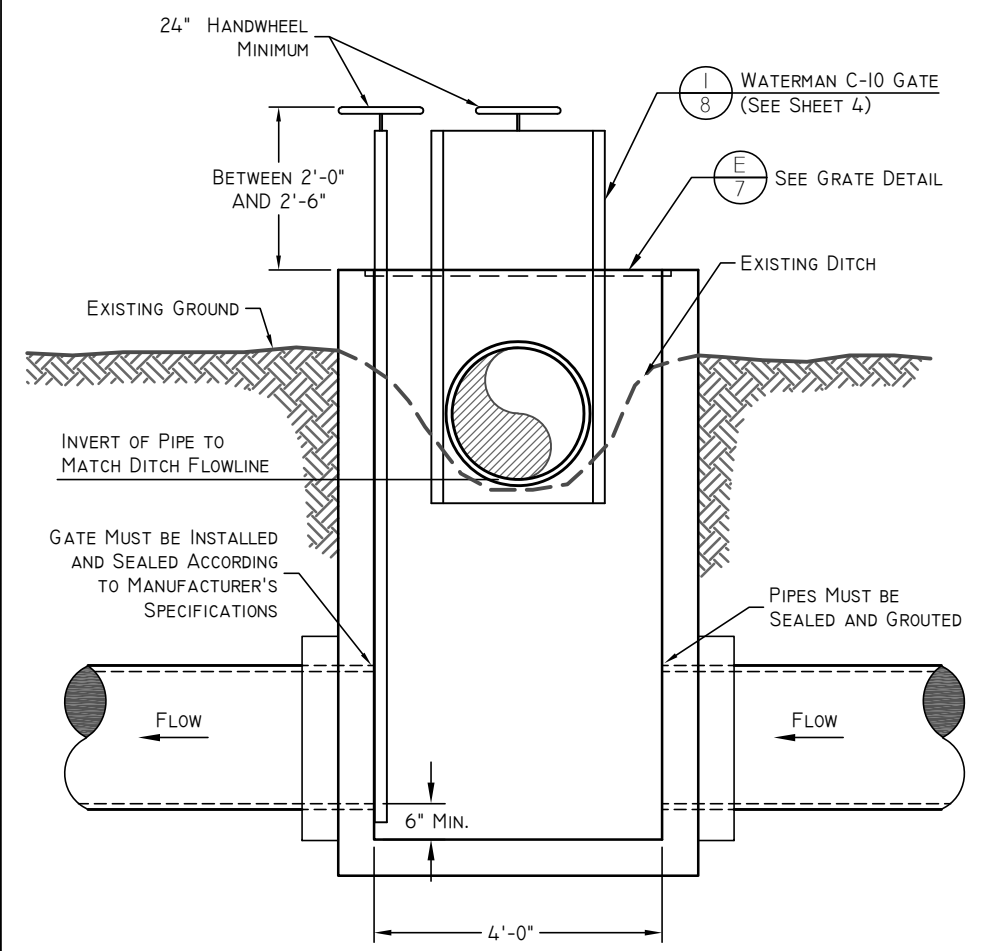
A TURNOUT BOX PLAN
NTS



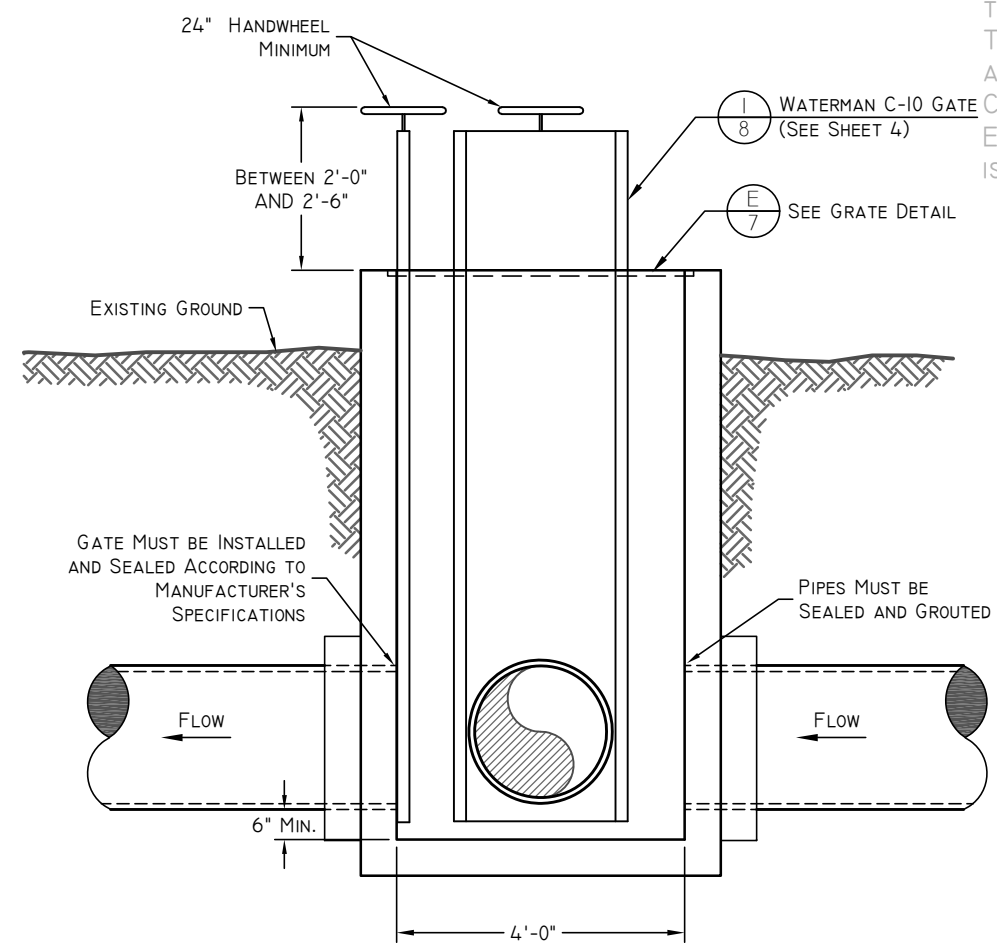
C DIVERSION BOX
NTS



E GRATE DETAIL - TOP VIEW
NTS



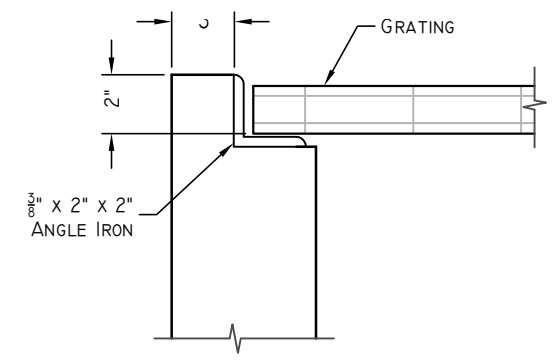
B TURNOUT BOX SECTION
NTS



D DIVERSION BOX SECTION
NTS

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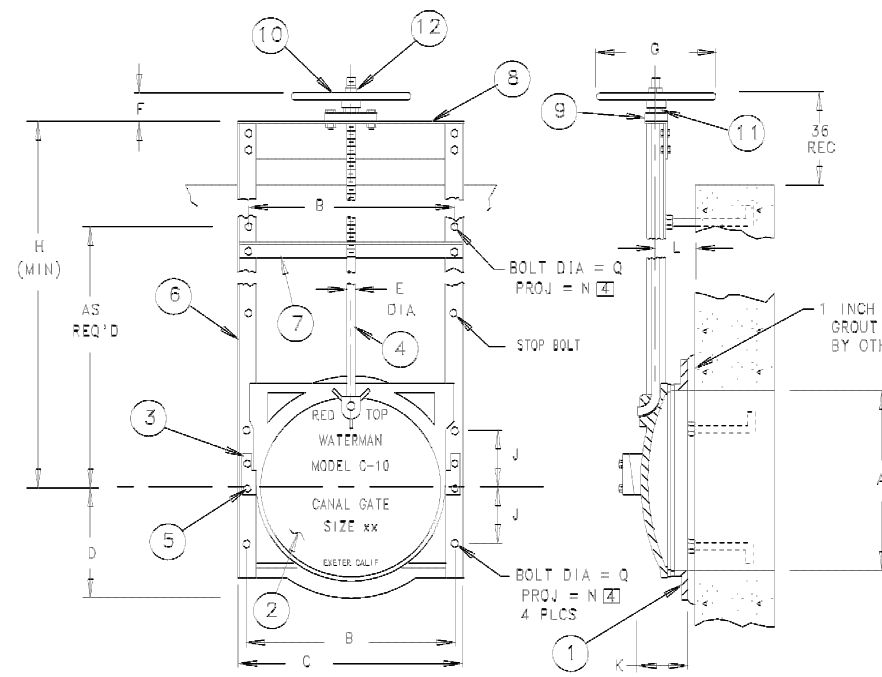


F WALL SECTION
NTS

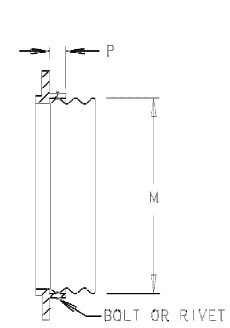
NOTES:

1. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
2. BOXES MAY BE PRECAST OR CAST IN PLACE. BOXES SHALL HAVE A MINIMUM INTERIOR WIDTH AND LENGTH OF 4 FEET WITH #4 REBAR @ 12 INCHES O.C. BOXES MUST BE SUBMITTED FOR REVIEW.
3. TURNOUT AND DIVERSION BOXES SHALL NOT BE PLACED IN ROADWAY.
4. ALL EXPOSED METAL SHALL BE GALVANIZED.

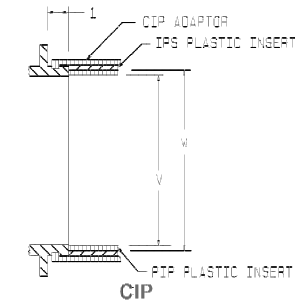
EAST BENCH CANAL COMPANY	
PROJECT LEADER: CHAD BROWN	PRINT DATE: SEPTEMBER 1, 2021
DESIGNER: CHAD BROWN	REVISIONS
DRAFTER: MATT GURR	NO. DATE DESCRIPTION
EAST BENCH CANAL COMPANY TYPICAL DRAWINGS IRRIGATION TURNOUT DIVERSION BOX	
JOB NO. 09_Irrigation Turnout Diversion Box.dwg 03/2007 EAST BENCH Reviews 2020DrawingsStandard Drawings	
SHEET 7 OF 8	



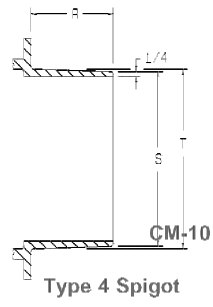
- NOTES
- 1 TYPE 2 lubricated ball bearing lift used on 48" and larger gates.
 - 2 Applies to spigotback gate only. Optional spigot, shown in separate detail.
 - 3. All dimensions are also applicable for model CL-10 & CM-10 gates.
 - 4 Add grout pad thickness to anchor bolt projection.
 - 5 Type 3E 2:1 lift used, mounted to dual headrail.



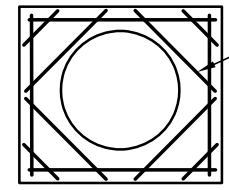
Corrugated Pipe Attached to Spigot Back Frame



CIP



Type 4 Spigot



PLACE #4 REBAR AS SHOWN AROUND PIPE OPENING, SUBMIT REBAR REINFORCEMENT TO ENGINEER

2 REBAR IN HEADWALL NTS

PARTS LIST		
No.	Name	Qty.
1	Frame	1
2	Cover	1
3	Wedge (Right & Left)	1 ea.
4	Stem	1
5	Wedge Bolts	4
6	Guide Rail	2
7	Stem Support	A/R
8	Head Rail	1
9	Lift Collar	1
10	Handwheel	1
11	Lift Nut	1
12	Limit Nut	1

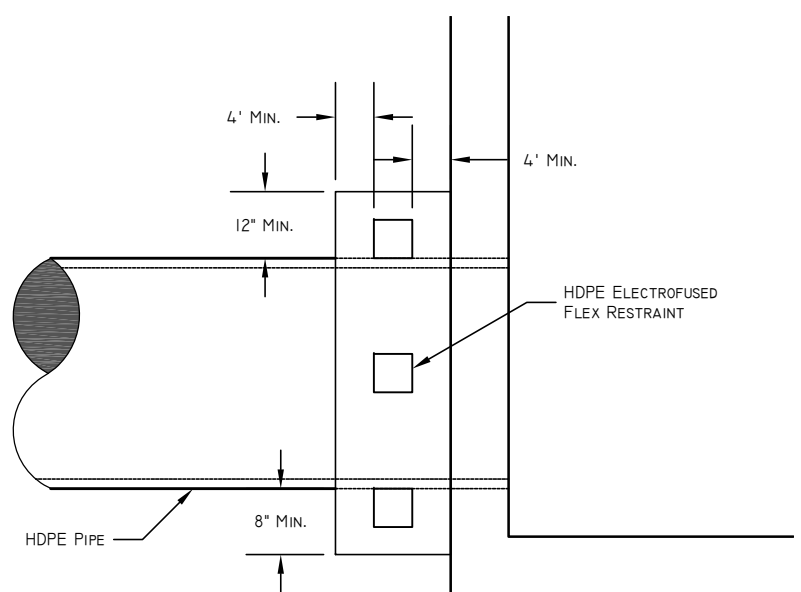
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W
6	8	9 1/2	4	7/8	2 1/2	10	24	3	3 1/2	2 1/2	7	3 1/2	2 1/4	1 1/2	-	-	-	6.160	6.645
8	10	12	4 1/2	7/8	2 1/2	10	24	3	3 3/4	2 1/2	9	3 1/2	2 1/4	1 1/2	4	7 1/2	8	8.180	8.645
10	12	13 1/2	6	7/8	2 1/2	10	24	3 1/2	3 3/4	2 1/2	11	3 1/2	2 1/4	1 1/2	3 3/4	9 1/2	10	10.220	10.770
12	14	15 1/2	7	7/8	2 1/2	10	24	4	3 1/2	3	13	4	2 1/4	1 1/2	4	11 1/2	12	12.270	12.780
14	16	17 1/2	8	7/8	2 1/2	10	27	4 1/4	3 3/4	3 1/4	15	4	2 1/4	1 1/2	-	-	-	-	-
15	17	18 1/2	8 1/2	7/8	2 1/2	10	30	5	4 1/2	3 1/2	16	4	2 1/4	1 1/2	4	14 1/2	15	-	-
16	18 1/2	20 1/2	9 1/2	7/8	2 1/2	10	32	5 1/2	4 1/2	3 1/2	17	4 1/2	2 1/4	1 1/2	-	-	-	-	-
18	21	22 1/2	10 1/2	1	3 1/2	12	34	6	4 1/2	4 1/4	19	4 1/2	2 1/4	1 1/2	4	17 1/2	18	-	-
20	23 1/2	25 1/2	11 1/2	1	3 1/2	12	38	7	4 1/2	4	21	4 1/2	2 1/4	1 1/2	-	-	-	-	-
21	24	25 1/2	12 1/2	1	3 1/2	12	40	7	4 1/2	4	22	4 1/2	2 1/4	1 1/2	-	-	-	-	-
24	27 1/2	29 1/2	13 1/2	1	3 1/2	12	44	8	5 1/2	4 1/2	25	4 1/2	2 1/4	1 1/2	-	-	-	-	-
30	33 1/2	36 1/2	17 1/2	1 1/2	4	15	54	10	6	4 1/2	31	6	2 1/4	1 1/2	-	-	-	-	-
36	39 1/2	42 1/2	20 1/2	1 1/2	4	15	62	12	6 1/2	5 1/2	37	6	2 1/2	1 1/2	-	-	-	-	-
42	45 1/2	48 1/2	23 1/2	1 1/2	5	18	84	14	7	6	43	6	2 1/2	1 1/2	-	-	-	-	-
48	51 1/2	54 1/2	26 1/2	1 1/2	6	24	90	16	7 3/4	6 1/2	49 1/2	6	2 1/2	1 1/2	-	-	-	-	-
54	58 1/2	61 1/2	30	2	6	30	100	18	7 3/4	6 1/2	55 1/2	7	3	1	-	-	-	-	-
60	65	68	34	2	6	30	102	20	8 1/2	7 1/2	61 1/2	8	3 1/4	1	-	-	-	-	-
72	77 1/2	80 1/2	41	2	13	5	121	25 1/2	10 3/4	8 3/4	73 1/2	8	3 3/4	1	-	-	-	-	-

GATE DIMENSIONS IN INCHES

1 WATERMAN C-10 CANAL GATE NTS

DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE EBCC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH PROJECT HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT IS THE RESPONSIBILITY OF THE APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.



3 THRUST RESRAINT NTS

PIPE DIA. (IN.)	# OF RESTRAINTS
≤ 24	3
≤ 36	4
≤ 42	5
>42	1 RESTRAINT FOR EVERY 20 INCHES IF PIPE CIRCUMFERENCE

* THRUST RESTRAINTS SHOULD BE SPACED EQUIDISTANT AROUND THE PIPE PERIMETER.

EAST BENCH CANAL COMPANY

WATERMAN C-10 CANAL GATE

TYPICAL DRAWINGS

08 - Waterman Canal Gate.dwg
03/2007 EAST BENCH Reviews 2020/02 Drawings/Standard Drawings

SHEET 8 OF 8

JOB NO.

DESIGNER: CHAD BROWN
DRAFTER: MATT GURR
CHECKED: CHAD BROWN
REVIEWED: MATT GURR
PROJECT LEADER: CHAD BROWN
PRINT DATE: SEPTEMBER 1, 2021

NO. DATE DISCUSSION