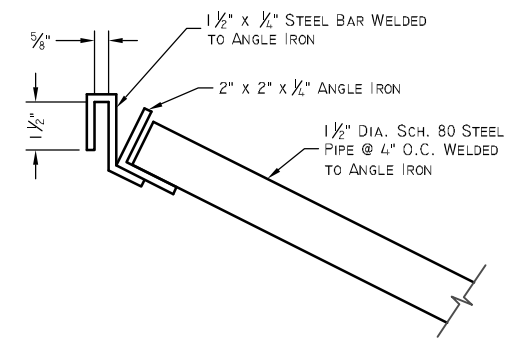
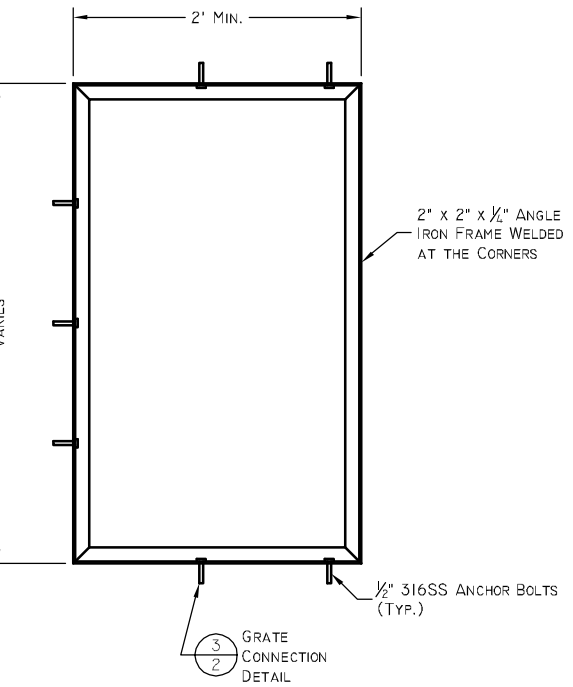
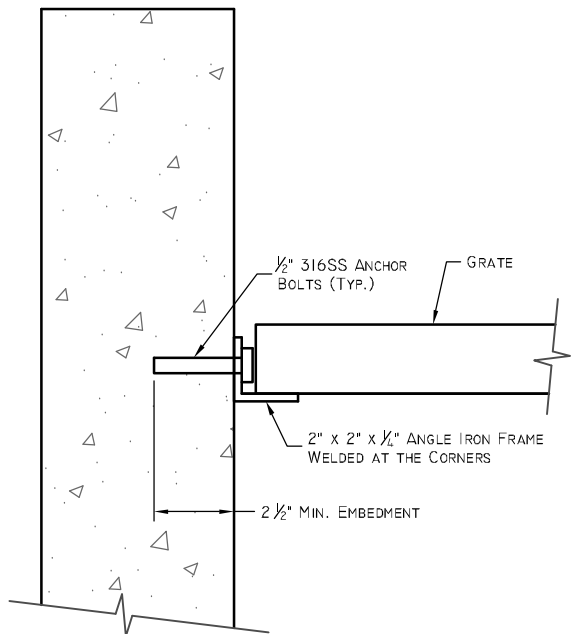
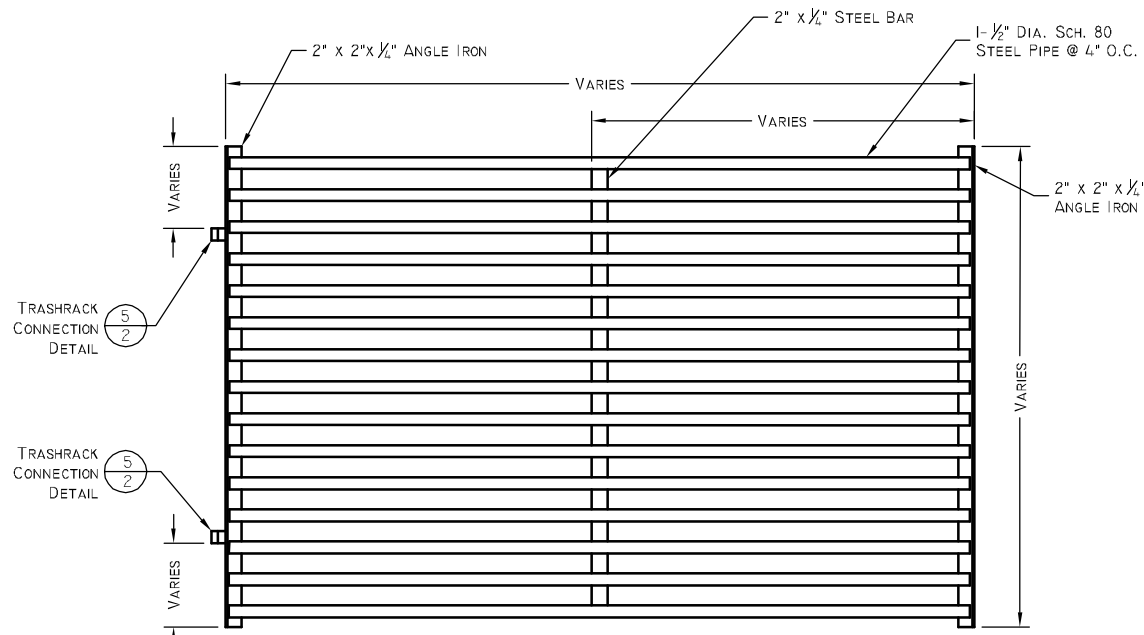
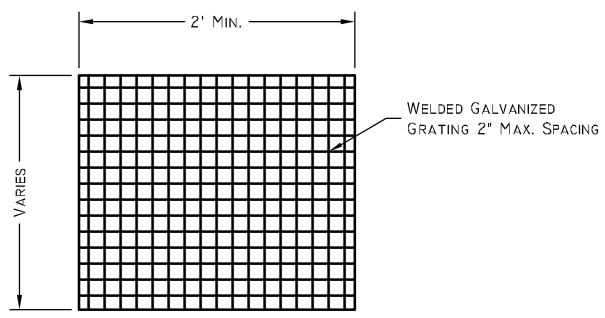


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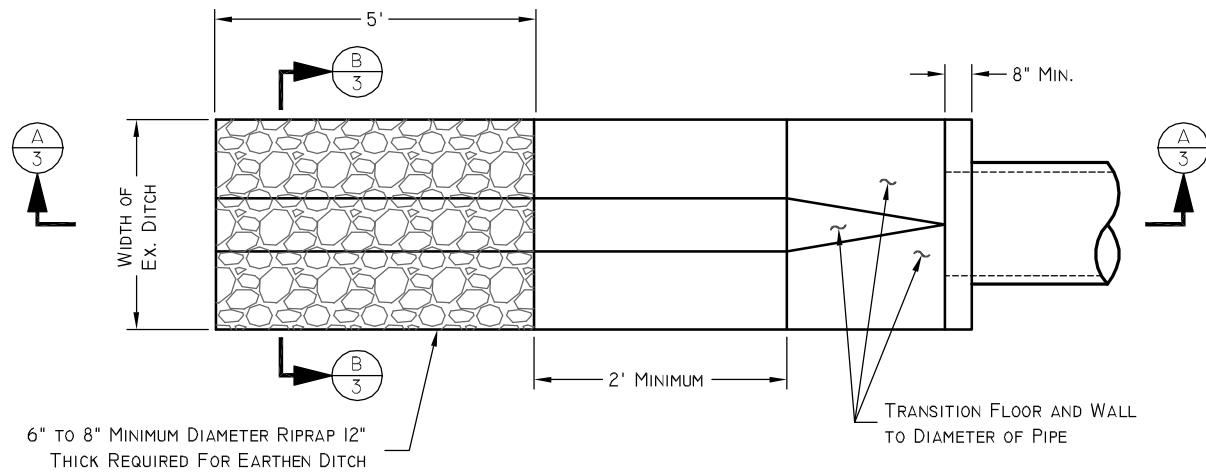
**NOTES:**

- IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT 12 INCHES ON CENTER (O.C.) EACH WAY (E.W.) MINIMUM.
- ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
- SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL.
- ENTIRE TRASHRACK TO BE HOT DIPPED GALVANIZED.
- MINIMUM TWO GRATES TO BE INSTALLED. SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL.

TABLE 1 FOR DETAIL 5

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

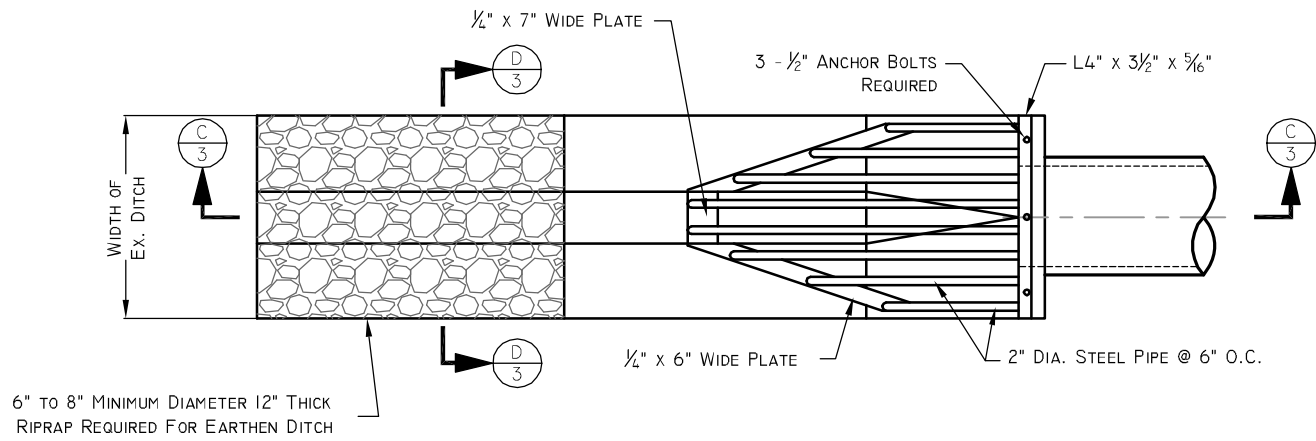
NO.	DATE	INTS.	REVISIONS	DESCRIPTION



6" TO 8" MINIMUM DIAMETER RIPRAP 12" THICK REQUIRED FOR EARTHEN DITCH

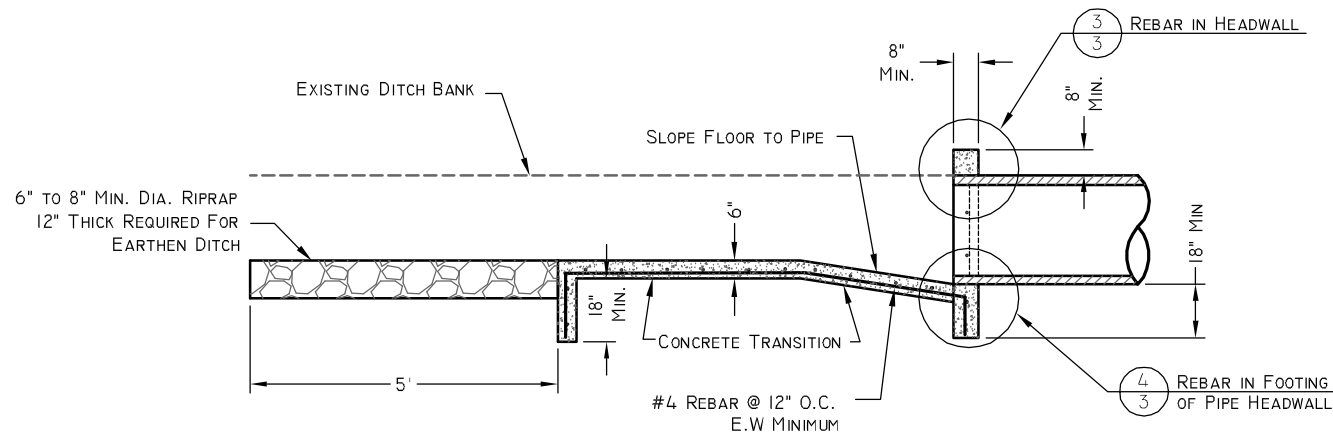
TRANSITION FLOOR AND WALL TO DIAMETER OF PIPE

**1** DITCH PIPE CONNECTION  
NTS

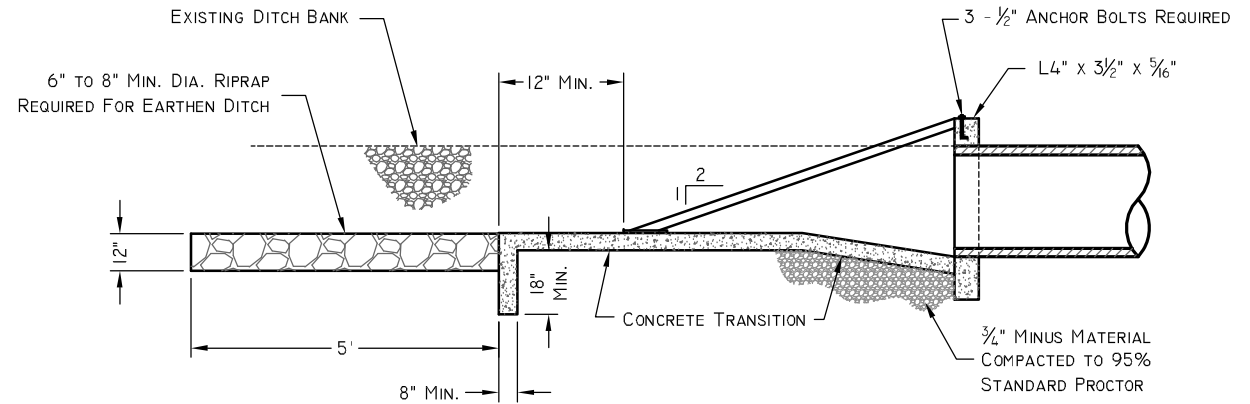


6" TO 8" MINIMUM DIAMETER 12" THICK RIPRAP REQUIRED FOR EARTHEN DITCH

**2** TRASH RACK PLAN  
NTS



**A** DITCH PIPE CONNECTION SECTION  
NTS

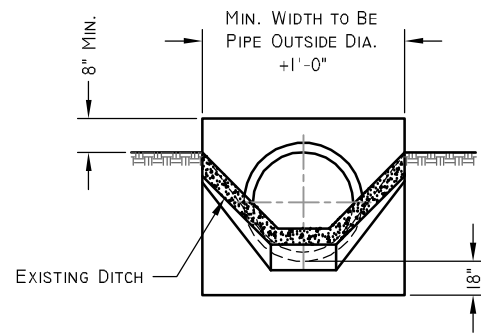


**C** TRASH RACK SECTION  
NTS

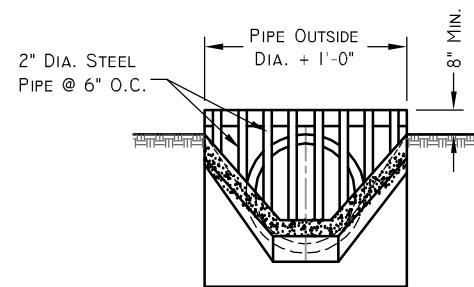
**DISCLAIMER:**

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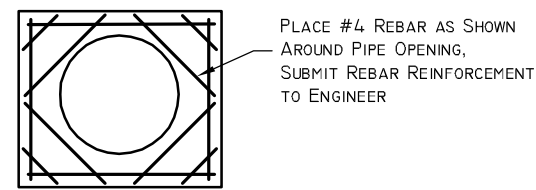
- NOTES:
1. IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT 12 INCHES O.C. E.W. MINIMUM.
  2. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
  3. SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL OF FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.



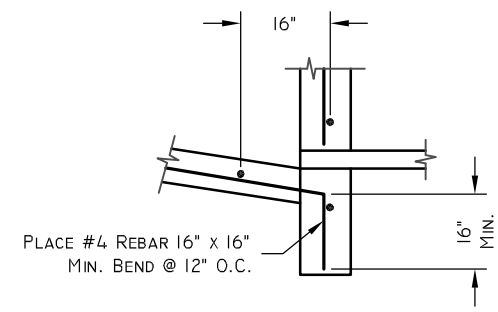
**B** DITCH PIPE CONNECTION SECTION  
NTS



**D** TRASH RACK FRONT SECTION  
NTS

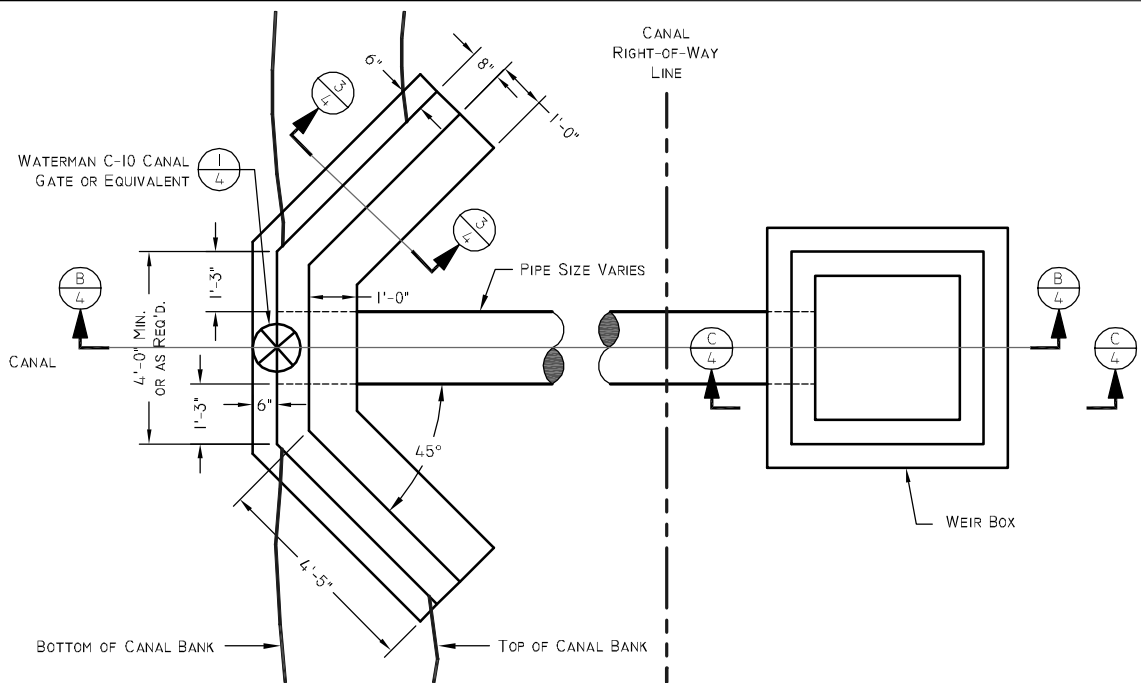


**3** REBAR IN HEADWALL  
NTS

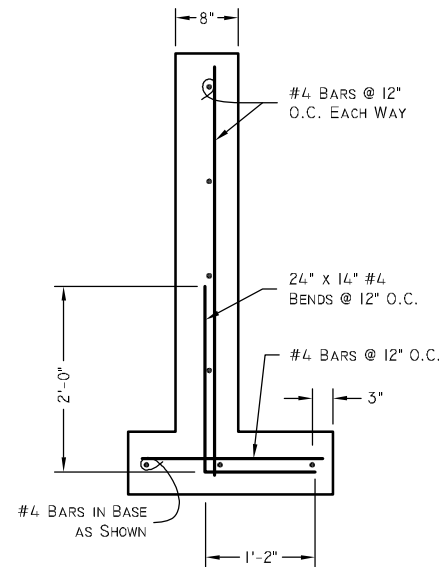


**4** REBAR IN FOOTING OF PIPE HEADWALL  
NTS

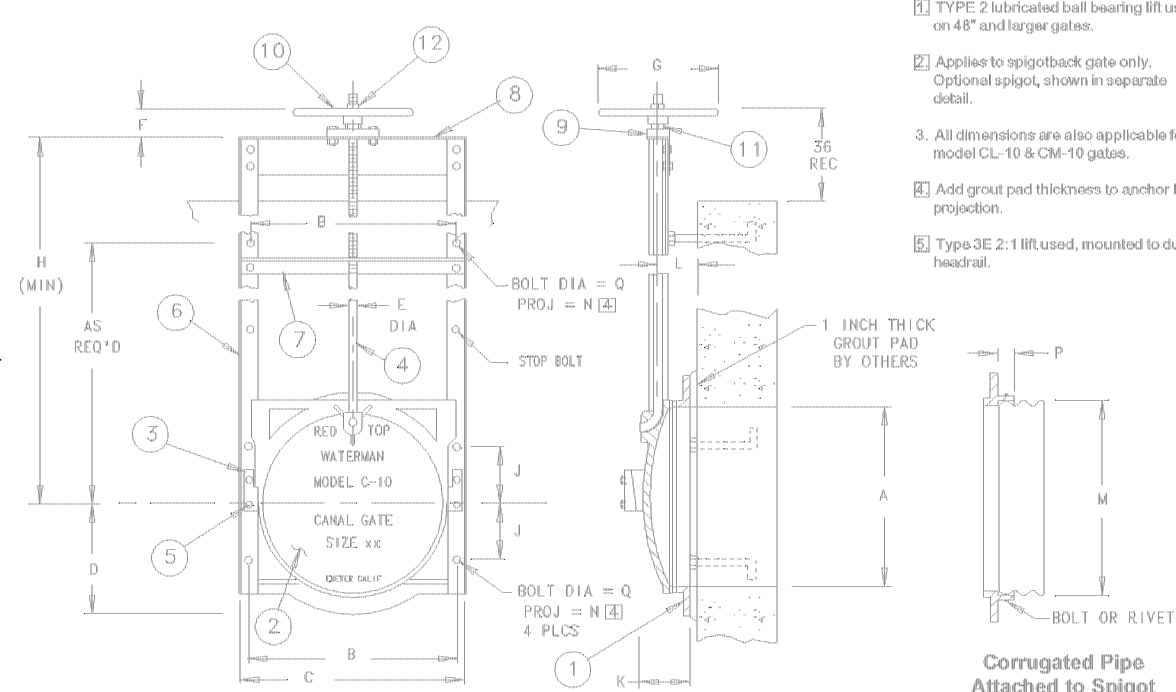
NO.	DATE	REVISIONS	DESCRIPTION



**A WEIR PLAN**  
NTS



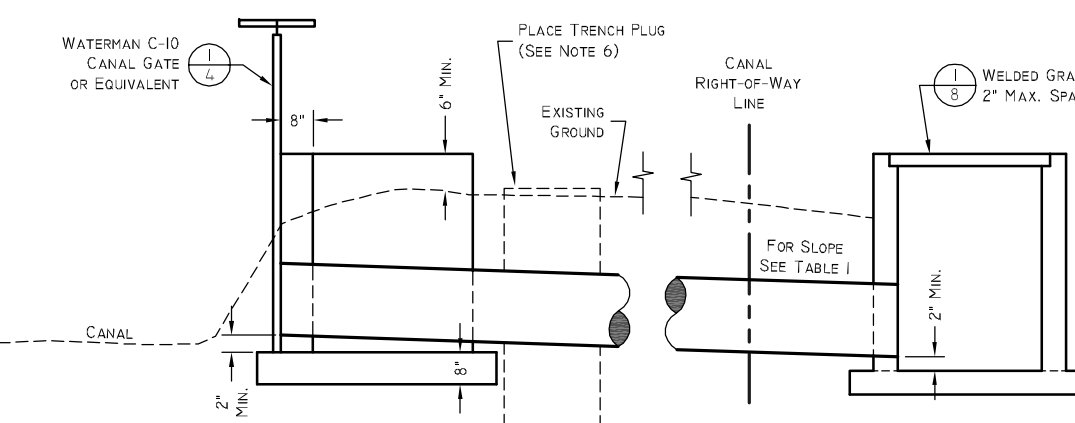
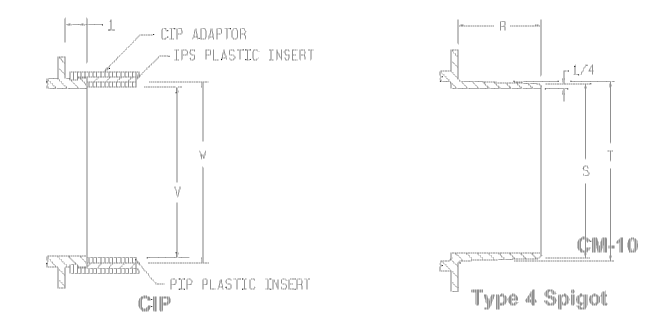
**3 REBAR DETAIL**  
NTS



- 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.

**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



**B WEIR SECTION**  
NTS

- NOTES:**
1. LID DETAILS FOR BOX SHOWN ON SHEET 1/8 OR 2/8
  2. BOX NOT TO BE PLACED IN DRIVEWAYS, ROADS, OR OTHER TRAFFIC AREAS.
  3. ALL PIPES INTO BOXES SHALL BE GROUTED AND WATERTIGHT.
  4. BOX WALL THICKNESS AND REINFORCEMENT ARE DEPENDENT ON SITE CONDITIONS AND DEPTH. MINIMUM SIZE AS SHOWN.
  5. DIMENSIONS SHOWN ON WALLS AND BOXES ARE MINIMUM SIZE. SPECIFIC SITE CONDITIONS OF BOXES AND WALLS MAY REQUIRE ADDITIONAL THICKNESS OR WIDTH.
  6. TRENCH PLUG TO BE PLACED IN LOCATION SHOWN FOR WIDTH OF TRENCH AND 12 INCHES ABOVE AND BELOW PIPE AT A THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE.
  7. PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING.

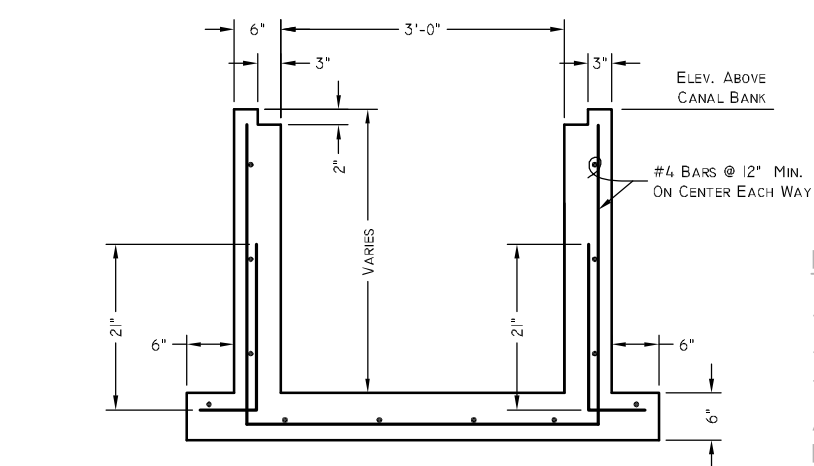
**TABLE I**  
MINIMUM PIPE SLOPES

PIPE SIZE	MIN. SLOPE, FT/FT	MIN. SLOPE, %
24"	0.0008	.08%
30"	0.00058	.058%

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

GATE DIMENSIONS IN INCHES

**1 WATERMAN C-10 CANAL GATE**  
NTS



**2 REBAR DETAIL**  
NTS

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MAPLETON IRRIGATION DISTRICT & COMPANY  
TYPICAL DRAWINGS  
WEIR TURNOUT GATE

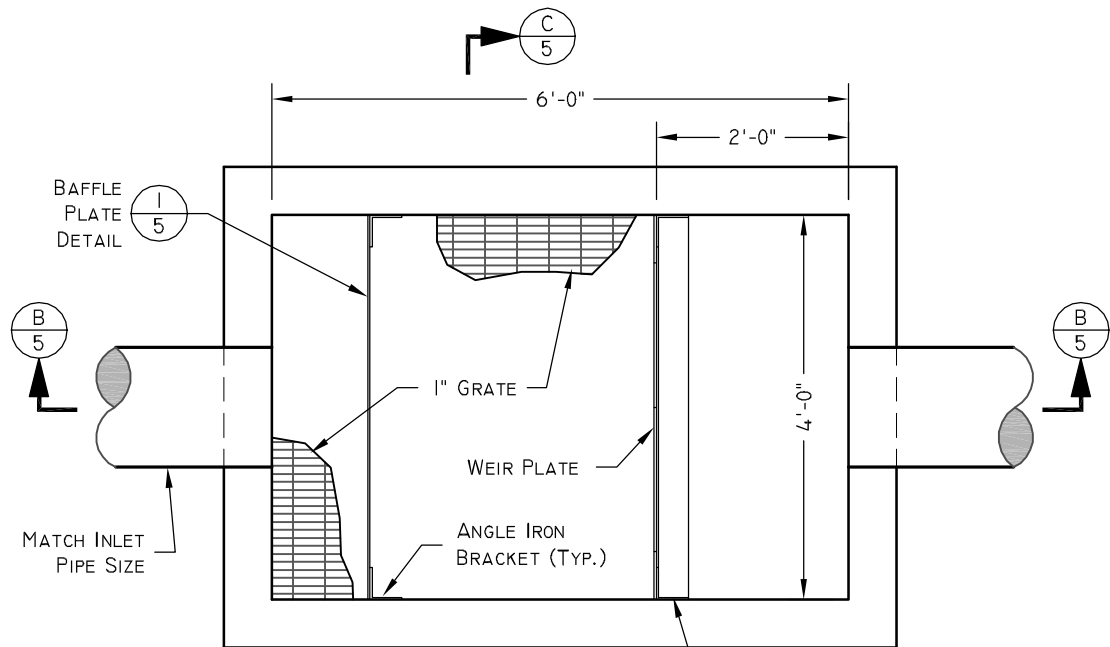
DESIGNER: CHAD BROWN  
DRAFTER: NATE GUNN  
PROJECT LEADER: CHAD BROWN  
CHECKED: CHAD BROWN  
REVIEWED: NATE GUNN  
DATE: FEBRUARY 2, 2016

NO. DATE DESCRIPTION

04-Weir Turnout Gate.dwg  
\\Franson\Projects\UT\Central\Mapleton\IC Reviews\Standard Drawings

JOB NO. CU-000008

SHEET 4 OF 10

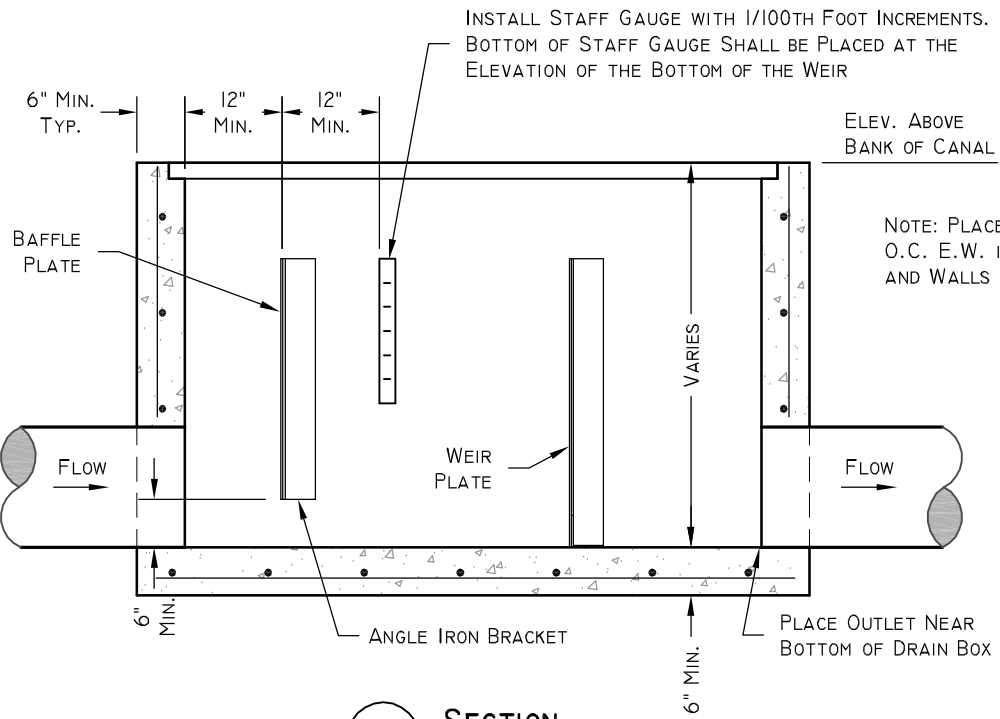


NOTE:  
REBAR PER MANUFACTURER'S  
SPECIFICATIONS.

**A** PLAN VIEW  
NTS

DISCLAIMER:

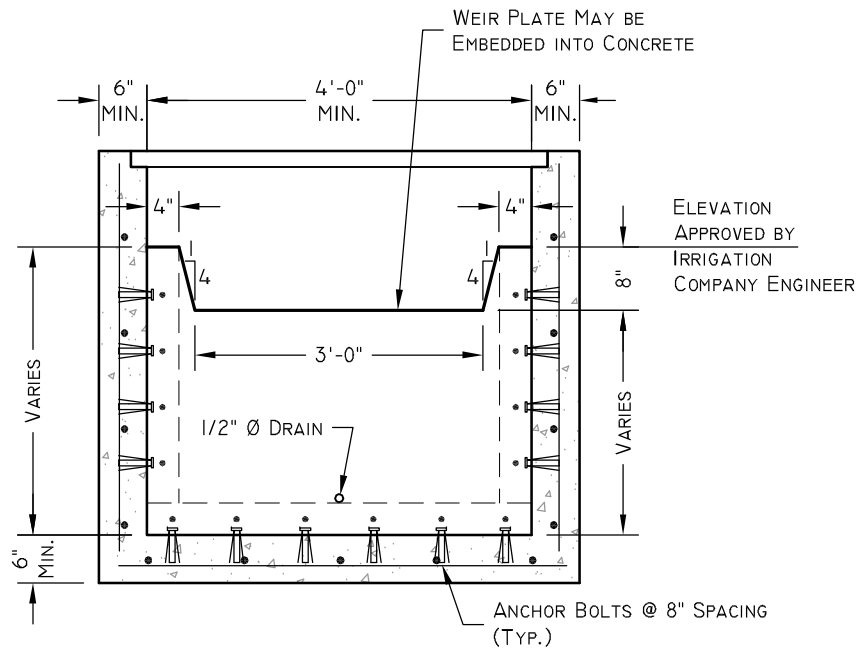
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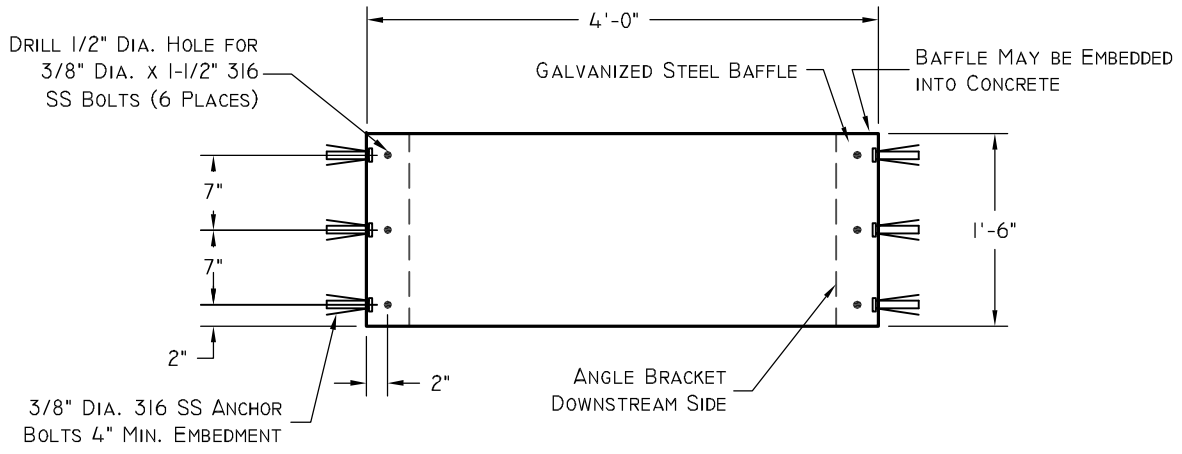
**B** SECTION  
NTS

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

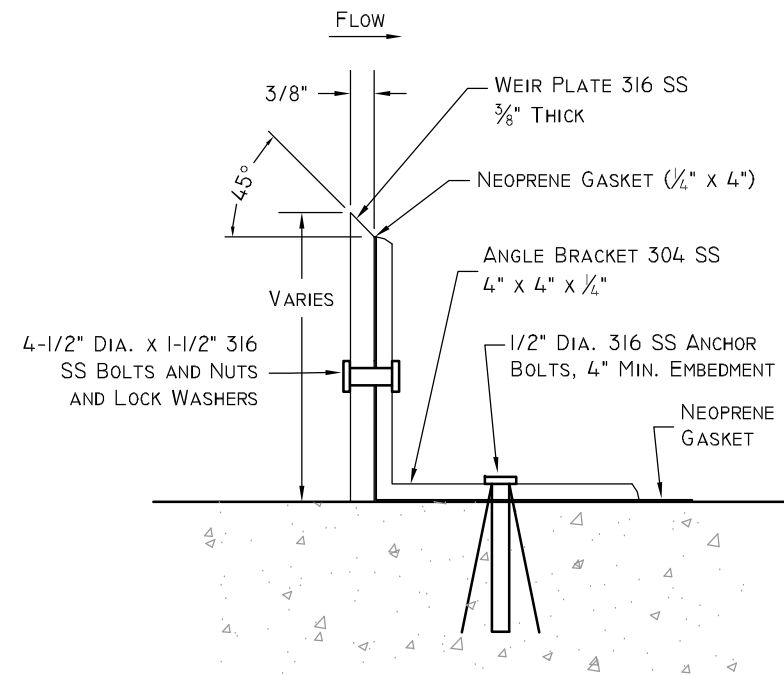
H (FT.)	Q (cfs)
0.2	0.90
0.3	1.66
0.4	2.56
0.5	3.57
0.6	4.69
0.66	5.42



**C** SECTION  
NTS



**1** BAFFLE PLATE DETAIL  
NTS



**2** ANGLE IRON DETAIL  
NTS

- NOTES:
- IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT 12" O.C. E.W. MINIMUM.
  - DETAILS FOR CAST IN PLACE BOX SEE (2/4).
  - 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.

MAPLETON IRRIGATION  
DISTRICT AND COMPANY

DESIGNER:	CHAD BROWN
DRAFTSMAN:	FLATT GORR
CHECKED:	CHECKED:
REVIEWED:	REVIEWED:
PROJECT LEADER:	CHAD BROWN
PRINT DATE:	FEBRUARY 2, 2016
NO.	DATE
DISCUSSION	REVISIONS

MAPLETON IRRIGATION DISTRICT & COMPANY  
TYPICAL DRAWINGS  
3 FOOT CIPOLETTI WEIR  
05-3 Foot Cipoletti Weir.dwg  
\\franson\Projects\N\Central\Mapleton IC Reviews\Standard Drawings  
JOB NO. CU-000008  
LAYOUT: Details (11x17)

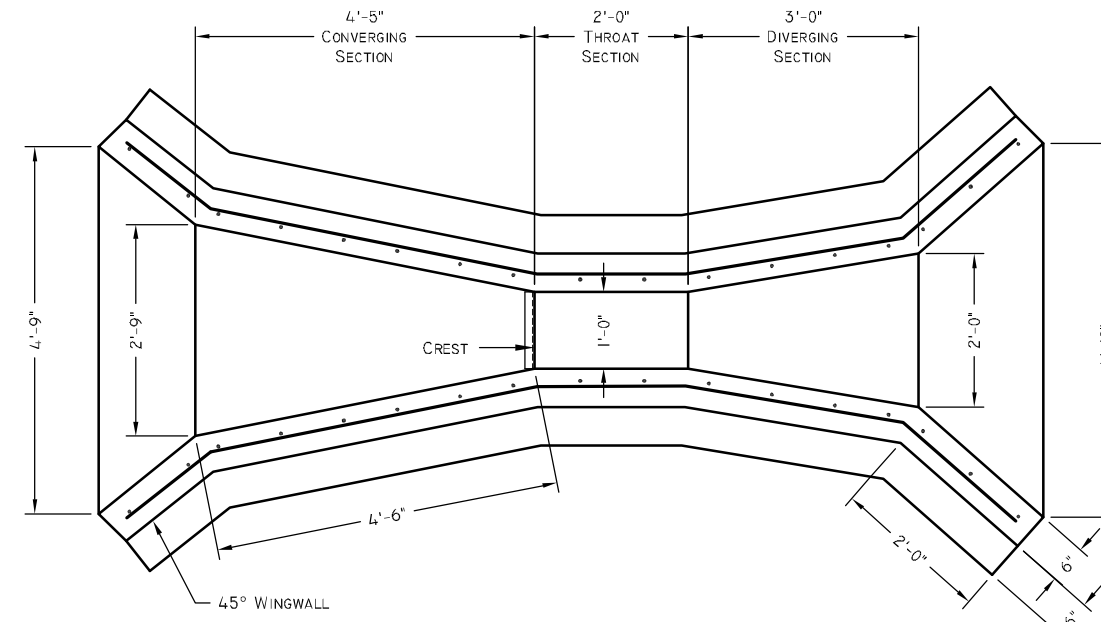
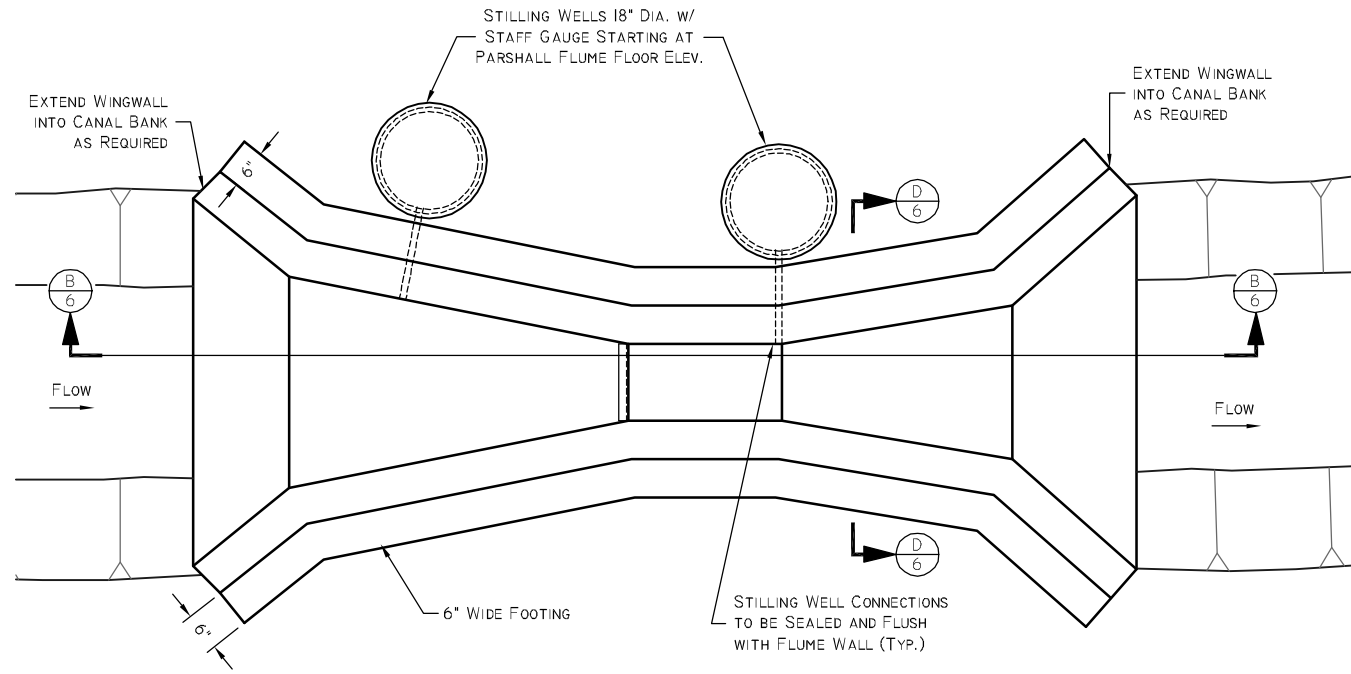


TABLE I  
HEAD-FLOW RELATIONSHIP FOR CONCRETE FLUME

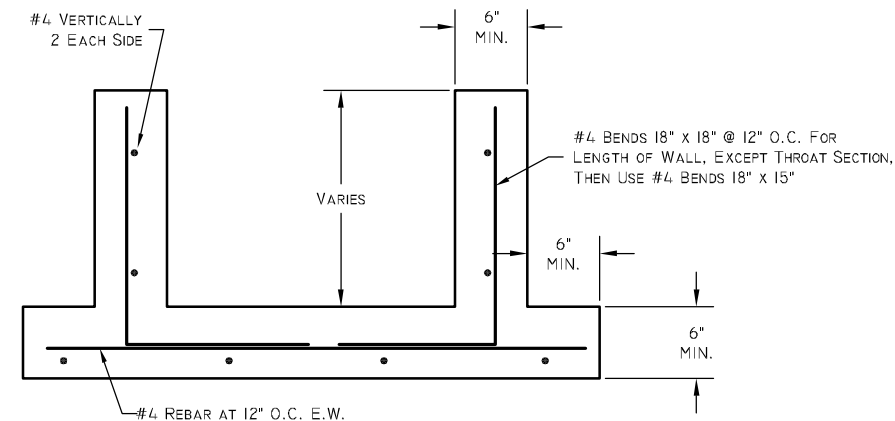
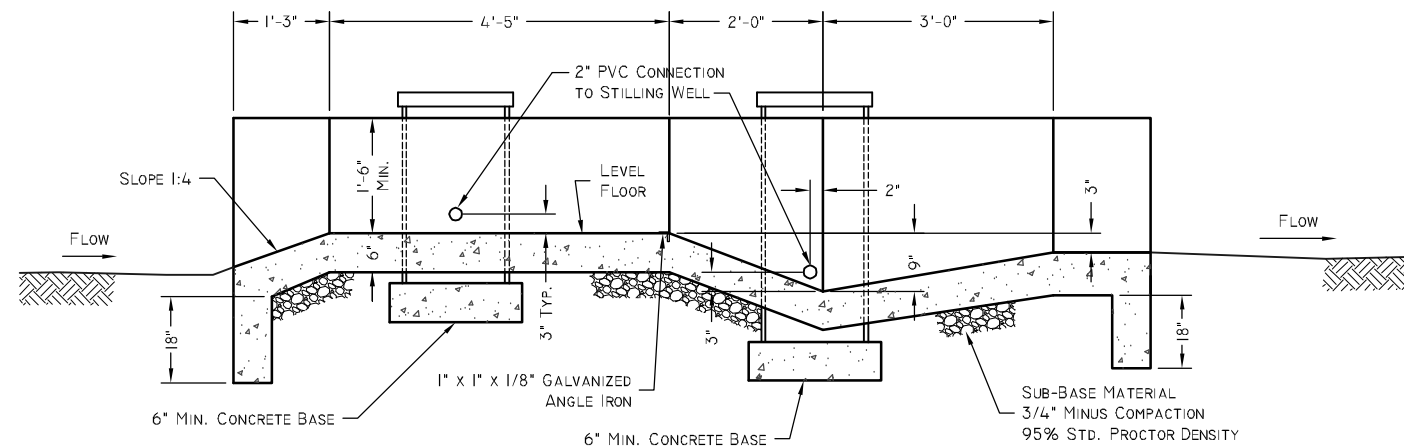
HEAD $H_a$ (FEET)	FLOW $Q$ (CFS)	HEAD $H_a$ (FEET)	FLOW $Q$ (CFS)
0.20	0.35	0.86	3.18
0.21	0.37	0.87	3.24
0.22	0.40	0.88	3.29
0.23	0.43	0.89	3.35
0.24	0.46	0.90	3.41
0.25	0.49	0.91	3.46
0.26	0.51	0.92	3.52
0.27	0.54	0.93	3.58
0.28	0.58	0.94	3.64
0.29	0.61	0.95	3.70
0.30	0.64	0.96	3.76
0.31	0.68	0.97	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		

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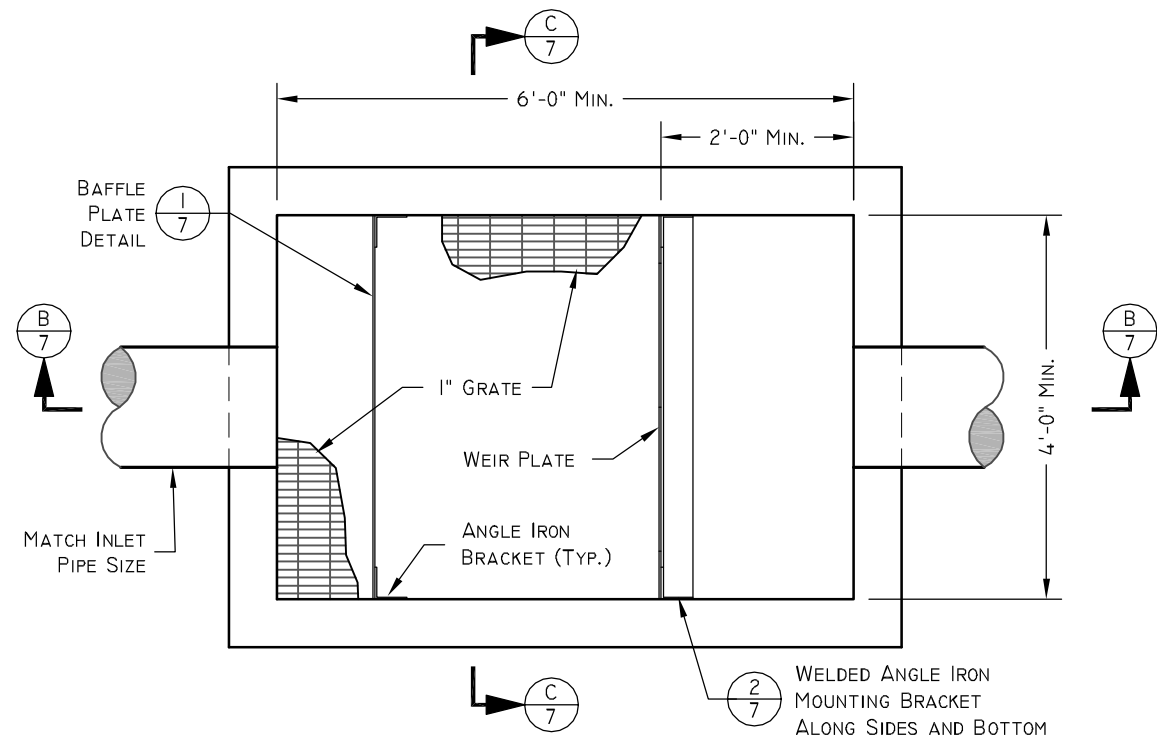
NOTES:

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.



NO.	DATE	INTS.	REVISIONS	DESCRIPTION

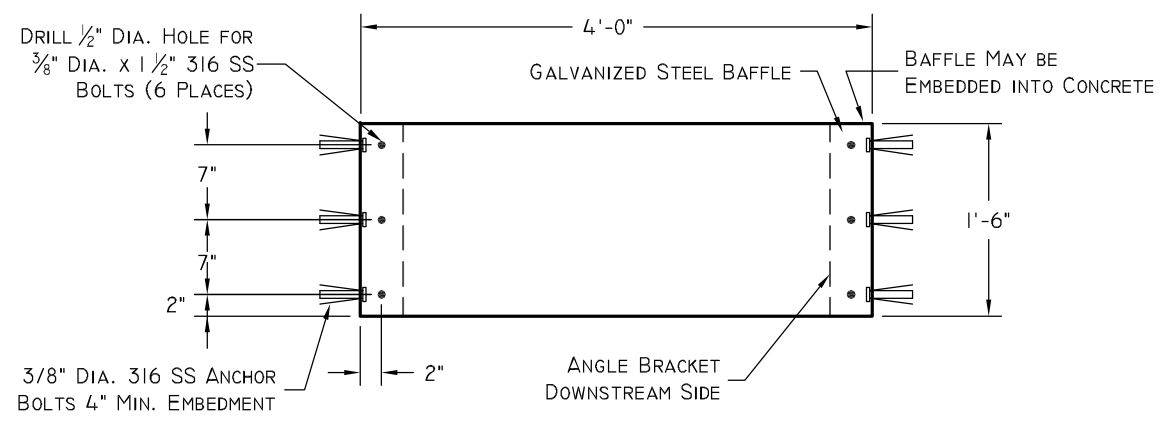
DESIGNER:	CHAD BROWN	CHECKED:	CHAD BROWN
DRAWSMAN:	MATT GUMM	REVIEWED:	MATT GUMM
PROJECT LEADER:	CHAD BROWN	PRINT DATE:	FEBRUARY 2, 2016



**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



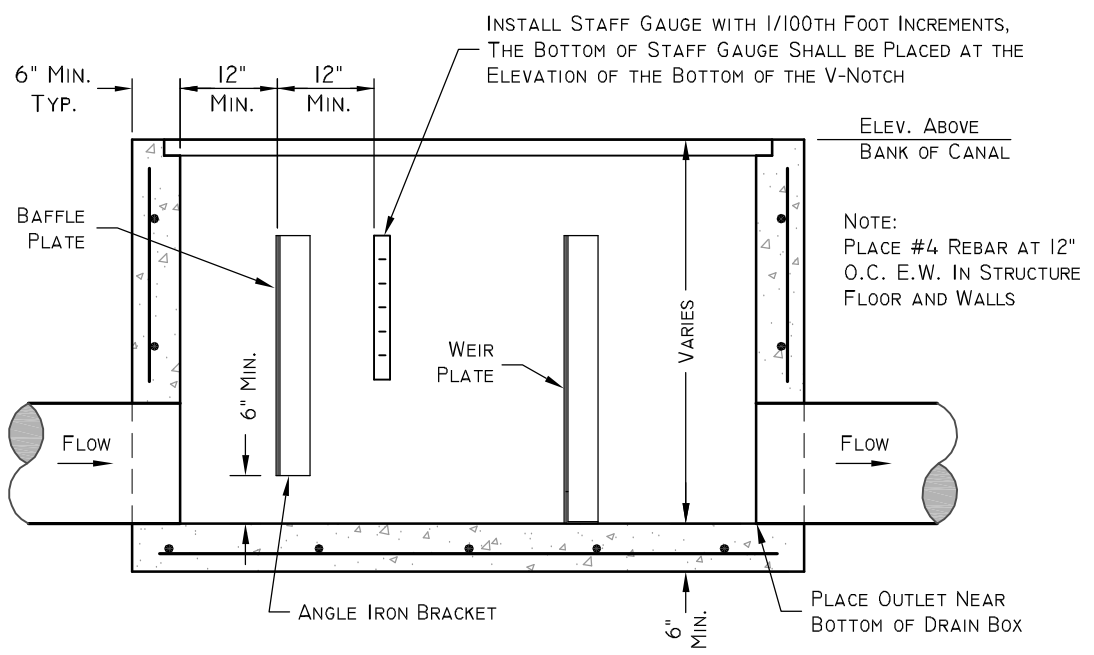
**1 BAFFLE PLATE DETAIL**  
NTS

**NOTES:**

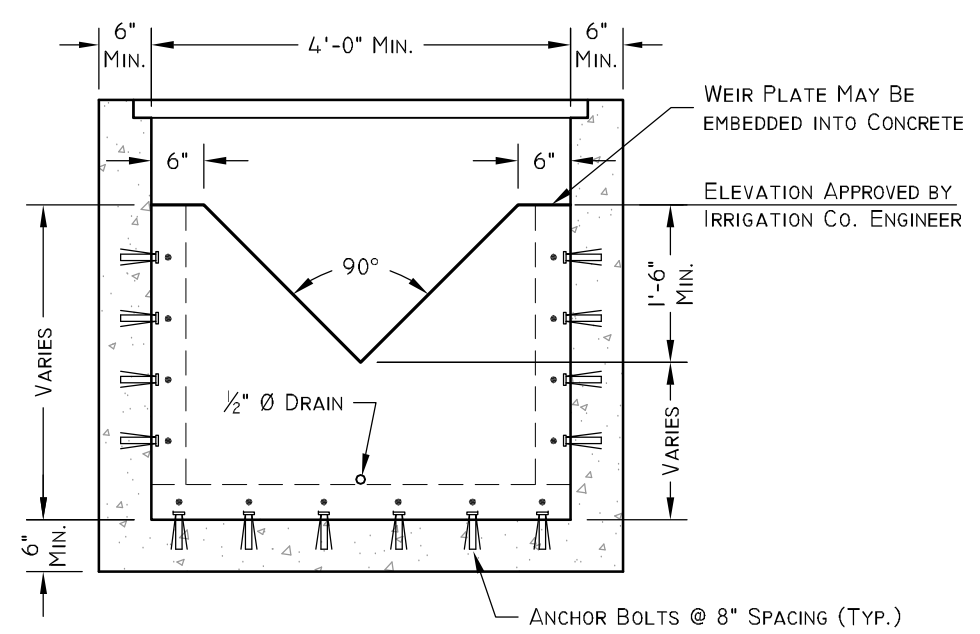
- IF BOX IS CAST IN PLACE, PUT #4 REBAR PLACED AT 12" O.C. E.W. IN STRUCTURE FLOOR AND WALLS MINIMUM.
- DETAILS FOR CAST IN PLACE BOX SEE **2**
- ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
- SUBMIT TO IRRIGATION COMPANY ENGINEER FOR FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING

**DISCLAIMER:**

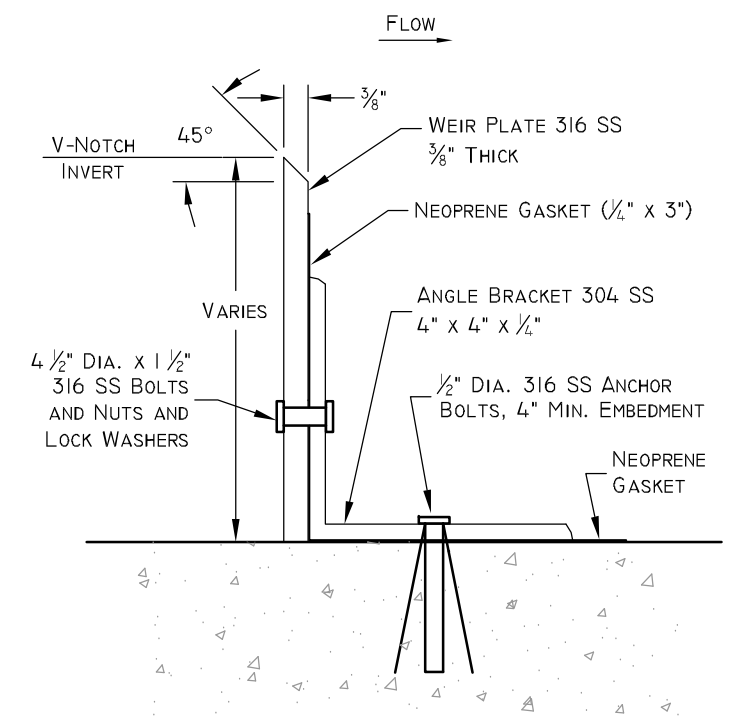
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE MIDC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT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



**B SECTION**  
NTS

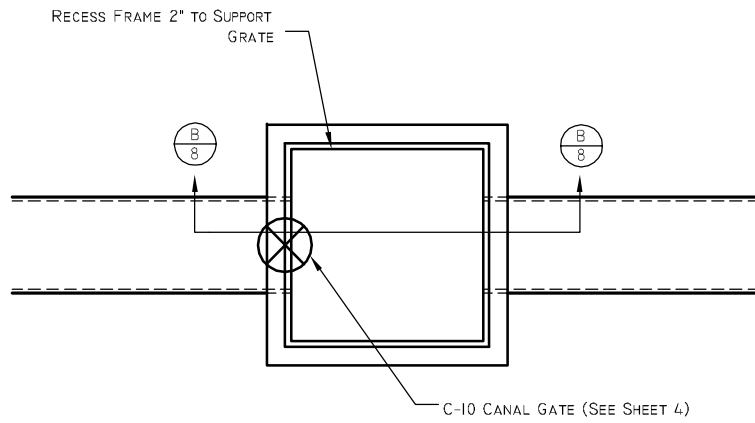


**C SECTION**  
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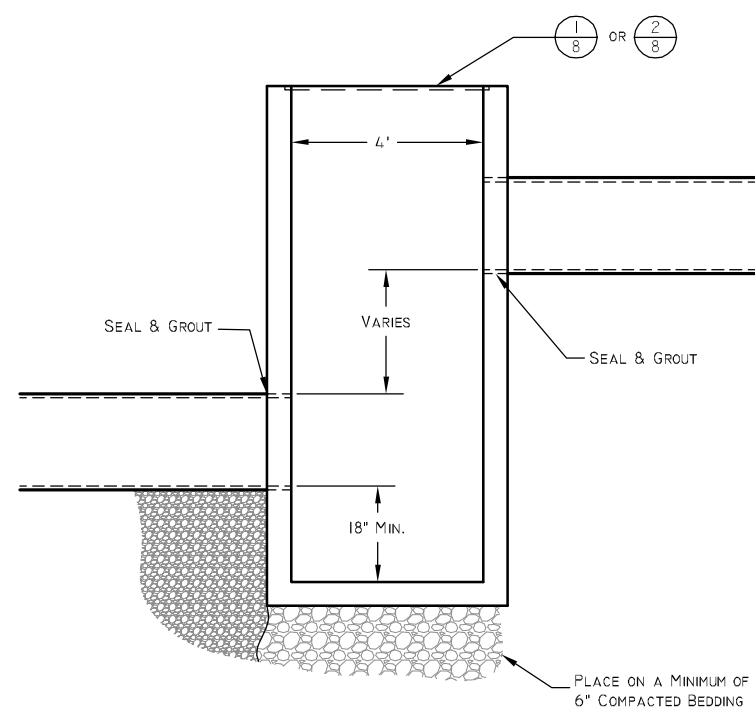


**2 ANGLE IRON DETAIL**  
NTS

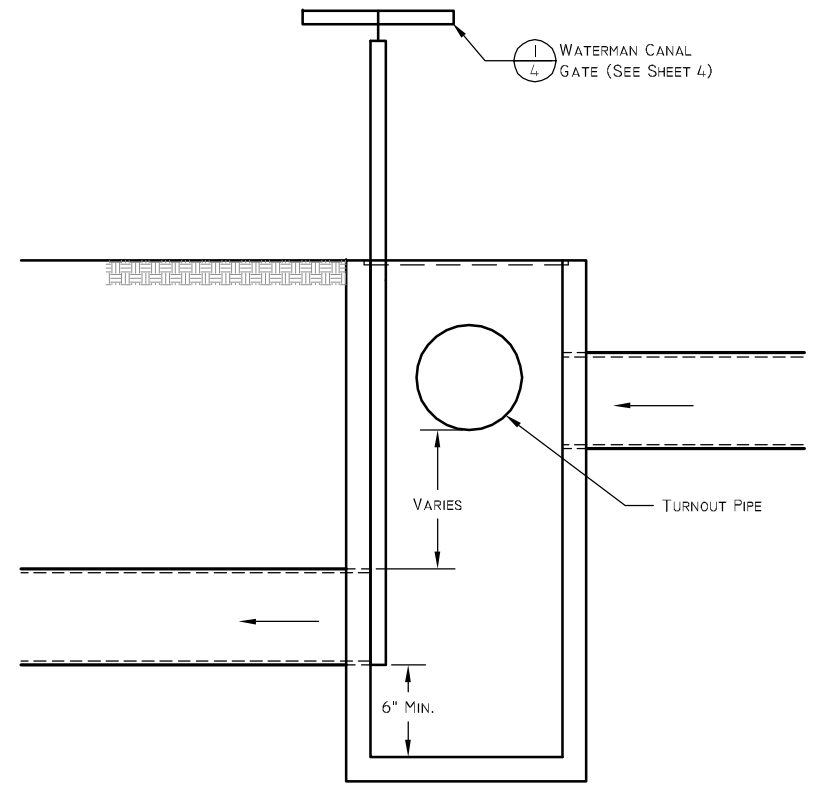
MAPLETON IRRIGATION DISTRICT AND COMPANY	
TYPICAL DRAWINGS 90D V-NOTCH WEIR	JOB NO. CU-000008
SHEET 7 OF 10	REVISIONS
DESIGNER: CHAD BROWN DRAFTSMAN: PAAT GUPTA	PROJECT LEADER: CHAD BROWN FRONT DATE: FEBRUARY 2, 2016
NO. DATE	DISCUSSION
CHECKED: REVIEWED:	CHECKED: REVIEWED:
07-90° V-Notch Weir.dwg \\Franson\Projects\UT\Central\Mapleton\IC Reviews\Standard Drawings LAYOUT: Details (11x17)	



**A** 4' x 4' IRRIGATION BOX PLAN  
NTS



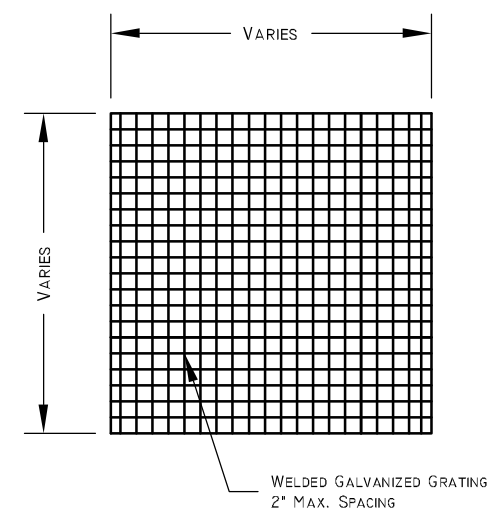
**B** 4' x 4' IRRIGATION BOX PROFILE  
NTS



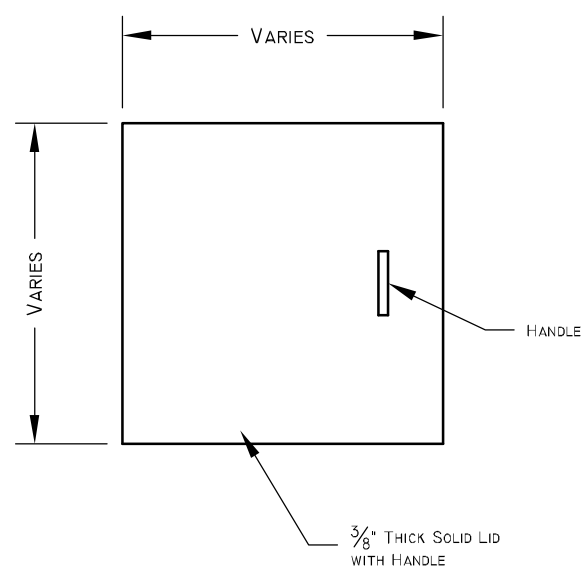
**4** BUBBLE UP TURNOUT BOX SECTION  
NTS

**DISCLAIMER:**

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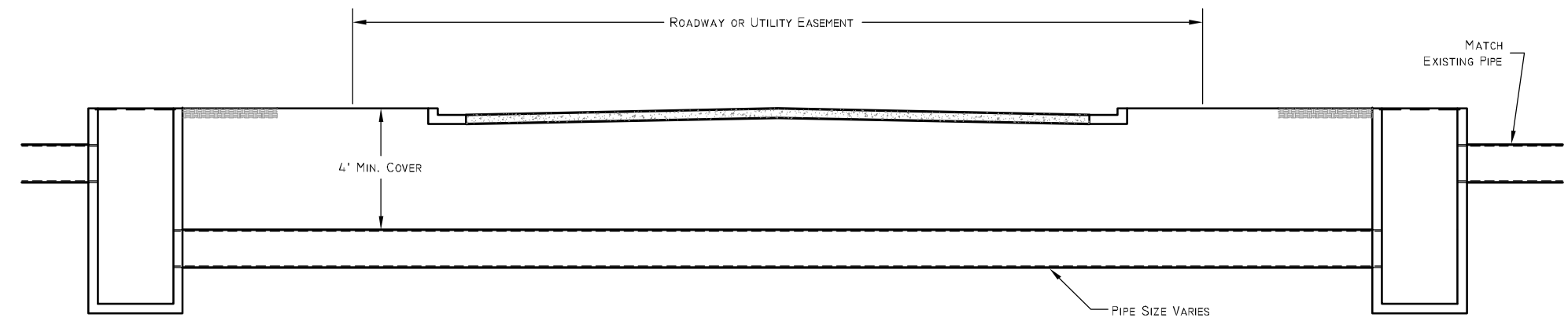


**1** GRATE DETAIL  
NTS



**2** SOLID LID  
NTS

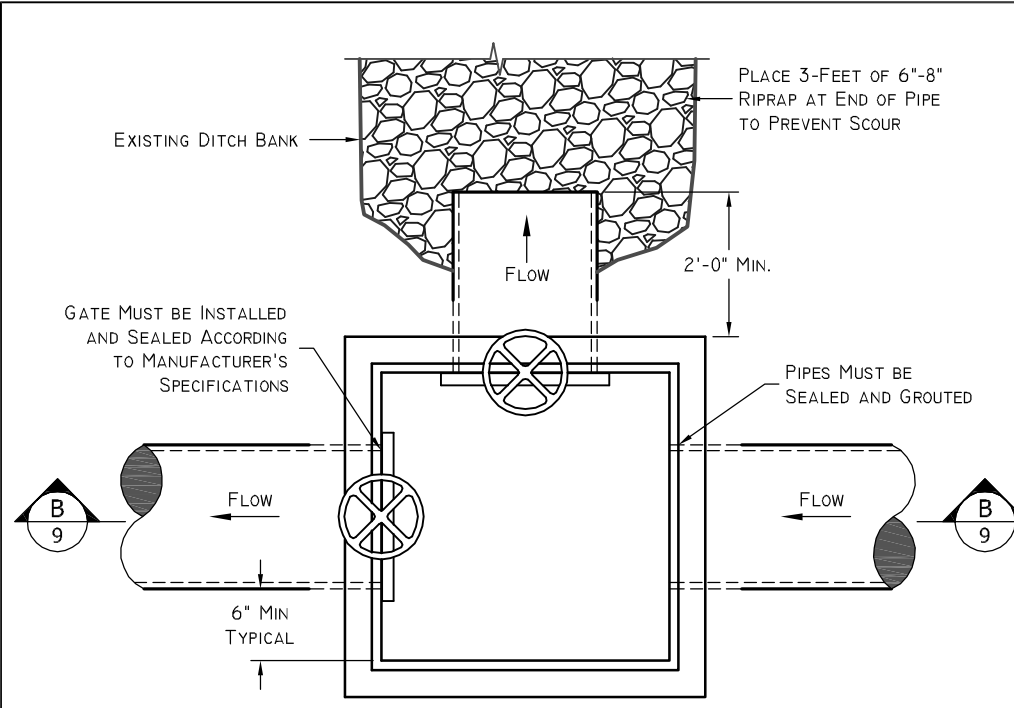
- NOTES
1. IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT 12" O.C. E.W. MINIMUM.
  2. DETAILS FOR CAST IN PLACE BOX SEE (B)
  3. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
  4. SUBMIT TO ENGINEER FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
  5. MINIMUM PIPE SLOPES FOR PIPE UNDER ROADWAY SEE SHEET 4.
  6. 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.
  7. IRRIGATION BOXES SHALL NOT BE PLACED IN ROADWAY.
  8. ALL PIPE PLACED IN ROADWAY MUST BE CLASS III RCP.
  9. REMOVAL AND REPLACEMENT OF CANAL BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB.



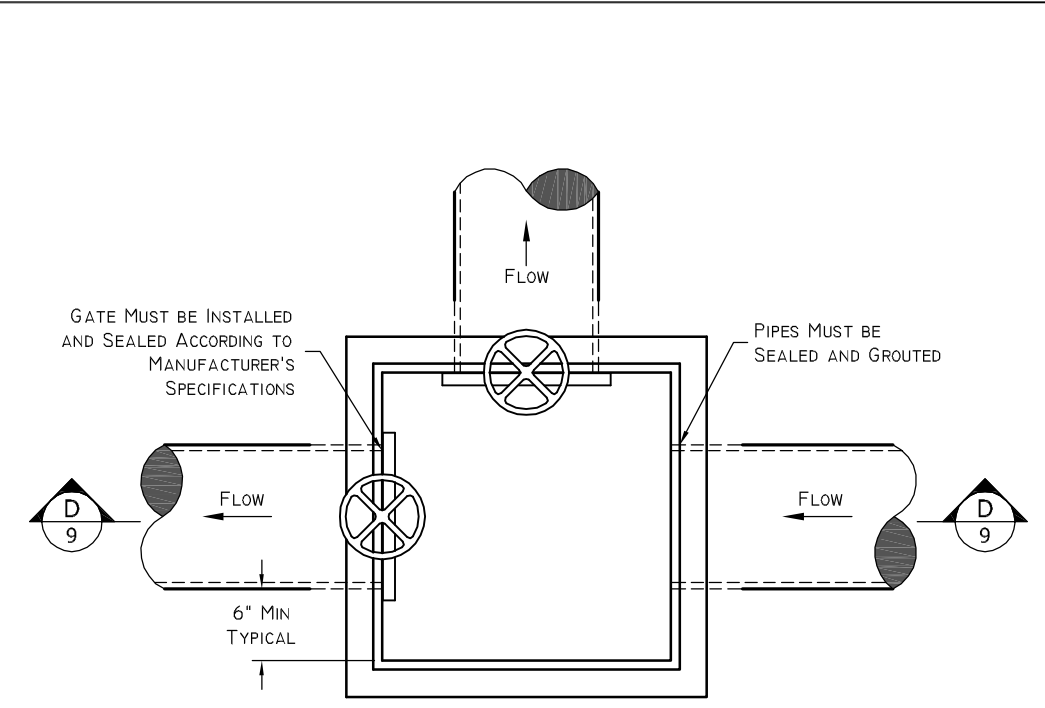
**3** BUBBLE UP BOX SECTION  
NTS

<b>MAPLETON IRRIGATION DISTRICT &amp; COMPANY</b> <b>TYPICAL DRAWINGS</b> <b>IRRIGATION BUBBLE UP BOX</b>		CHAD BROWN PROJECT LEADER February 2, 2016 PRINT DATE:
CHAD BROWN DESIGNER	MATT GUER DRAFTSMAN	NO. DATE INTS.
CHECKED REVIEWED	CHECKED REVIEWED	REVISIONS DESCRIPTION
MAPLETON IRRIGATION DISTRICT & COMPANY TYPICAL DRAWINGS IRRIGATION BUBBLE UP BOX		JOB NO. CU.0000108
SHEET 8 OF 10		LAYOUT: Details

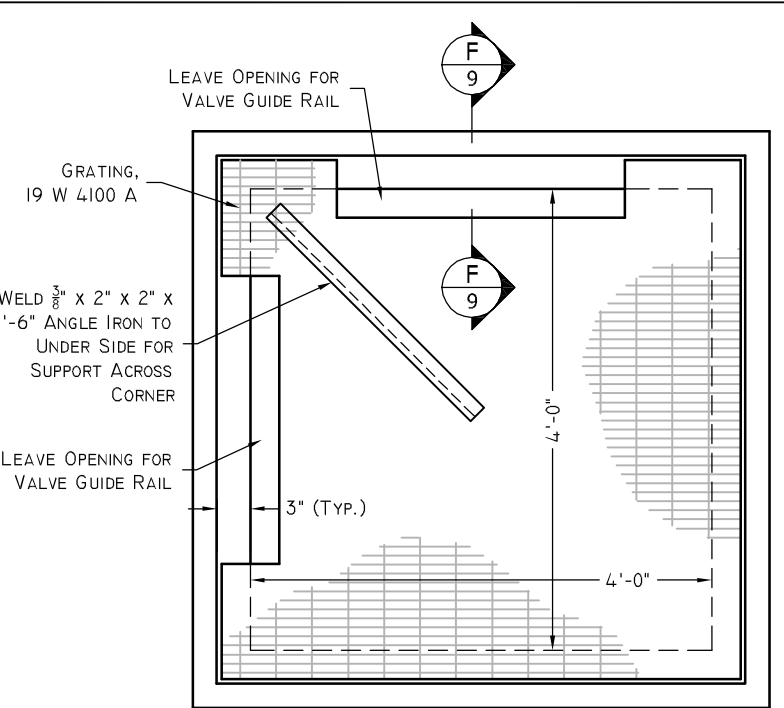




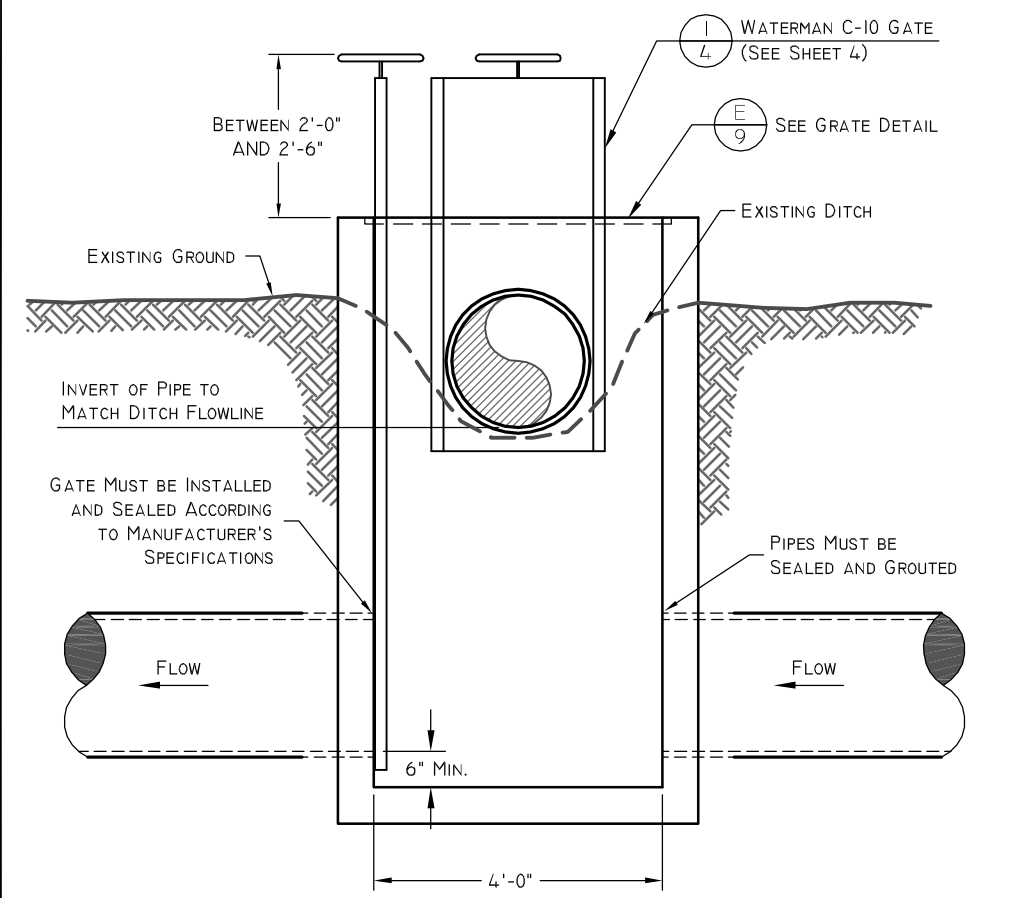
**A TURNOUT BOX PLAN**  
NTS



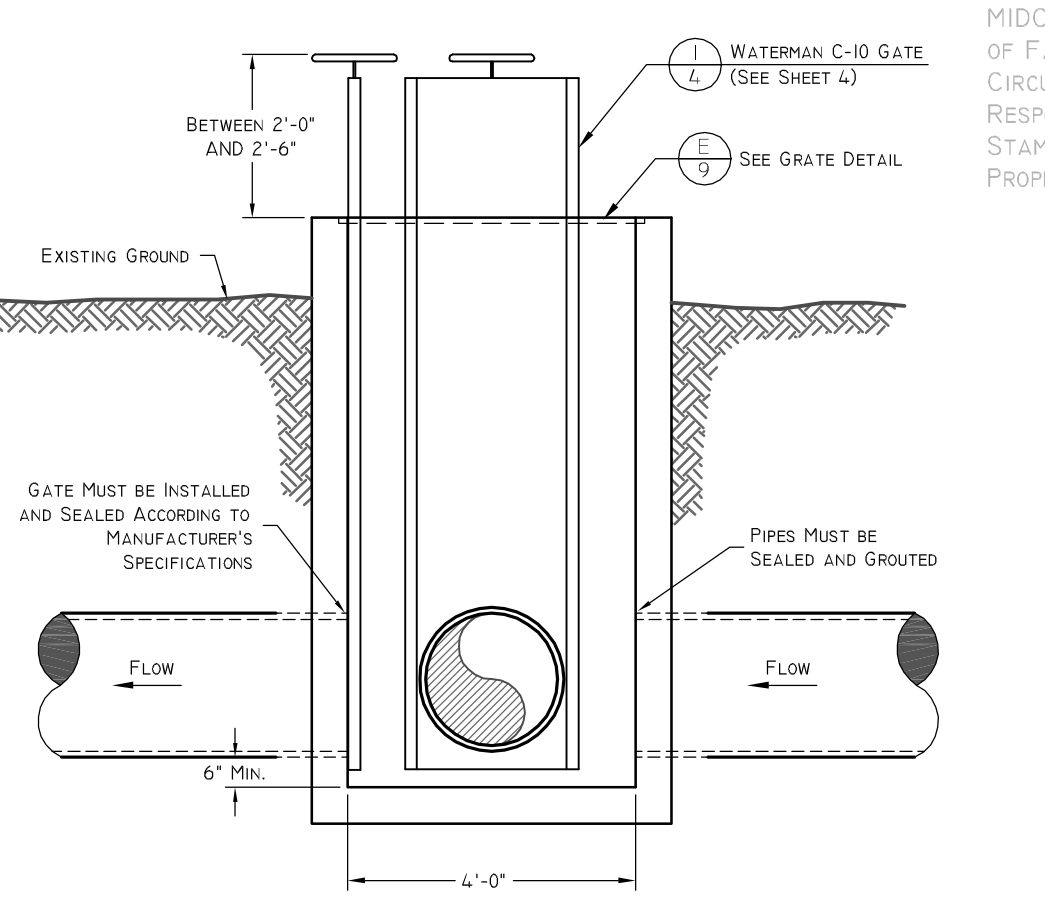
**C DIVERSION BOX**  
NTS



**E GRATE DETAIL - TOP VIEW**  
NTS



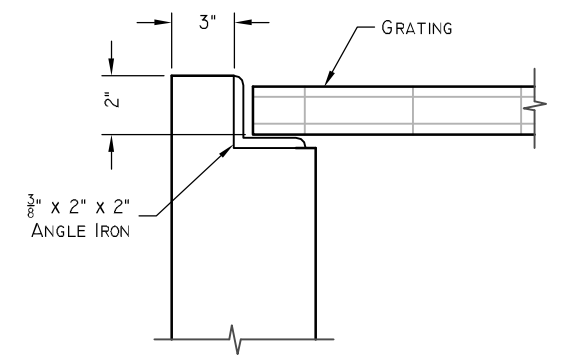
**B TURNOUT BOX SECTION**  
NTS



**D DIVERSION BOX SECTION**  
NTS

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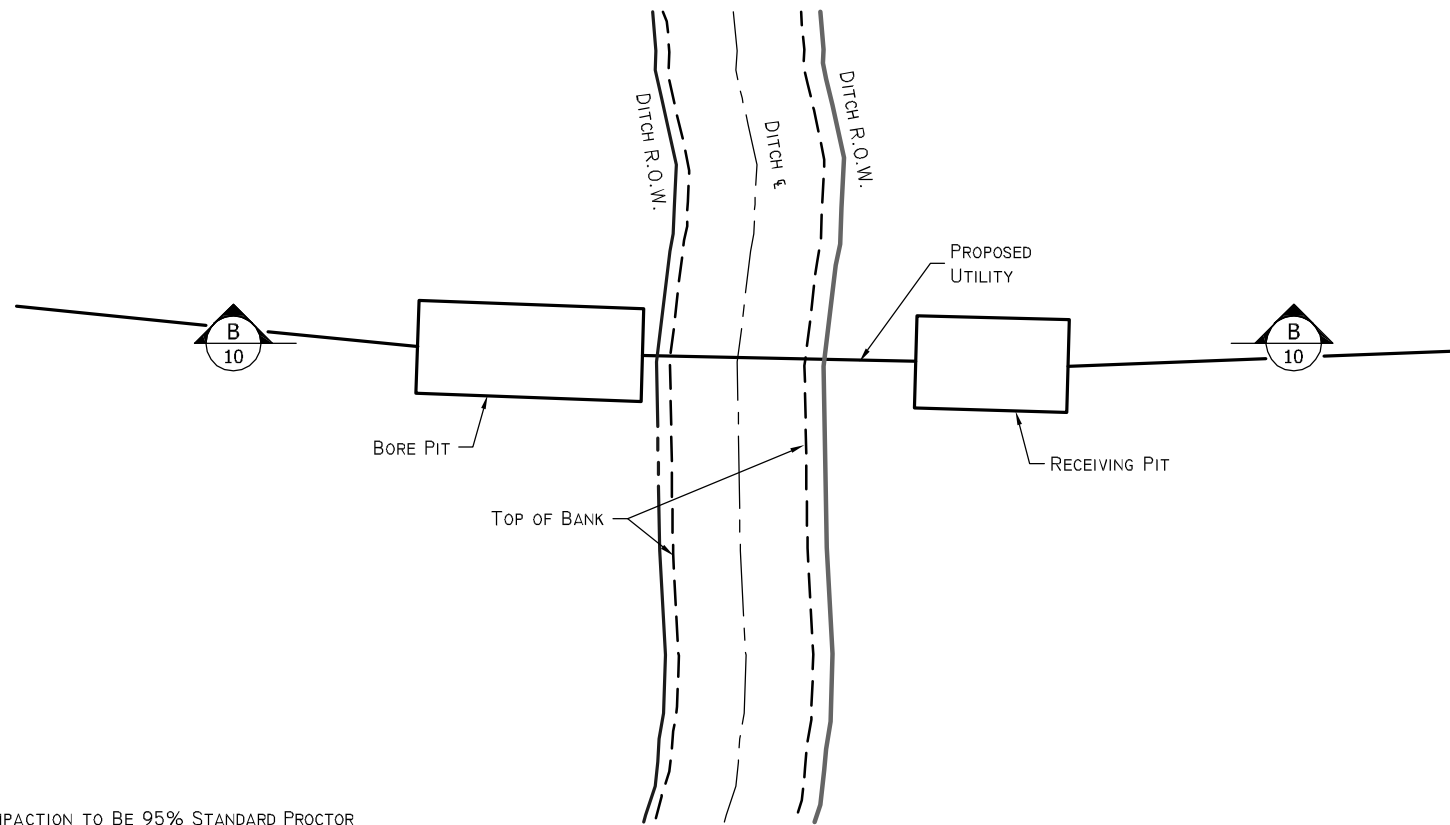


**F WALL SECTION**  
NTS

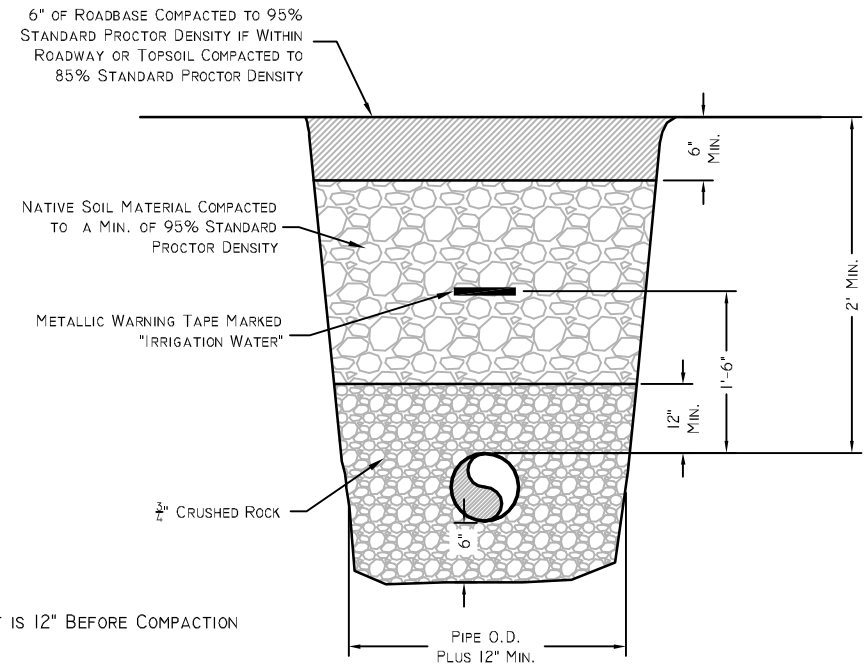
**NOTES:**

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.

MAPLETON IRRIGATION DISTRICT AND COMPANY		PROJECT LEADER: CHAD BROWN	PRINT DATE: FEBRUARY 2, 2016
TYPICAL DRAWINGS		CHECKED: CHAD BROWN	REVIEWED: MATT GURR
IRRIGATION TURNOUT-DIVERSION BOX		DESIGNER: CHAD BROWN	DATE: JNTS
JOB NO. 09-Irrigation Turnout Diversion Box.dwg		NO.	DISCUSSION
CU-000008		NO.	DATE
SHEET 9 OF 10		LAYOUT: Details	



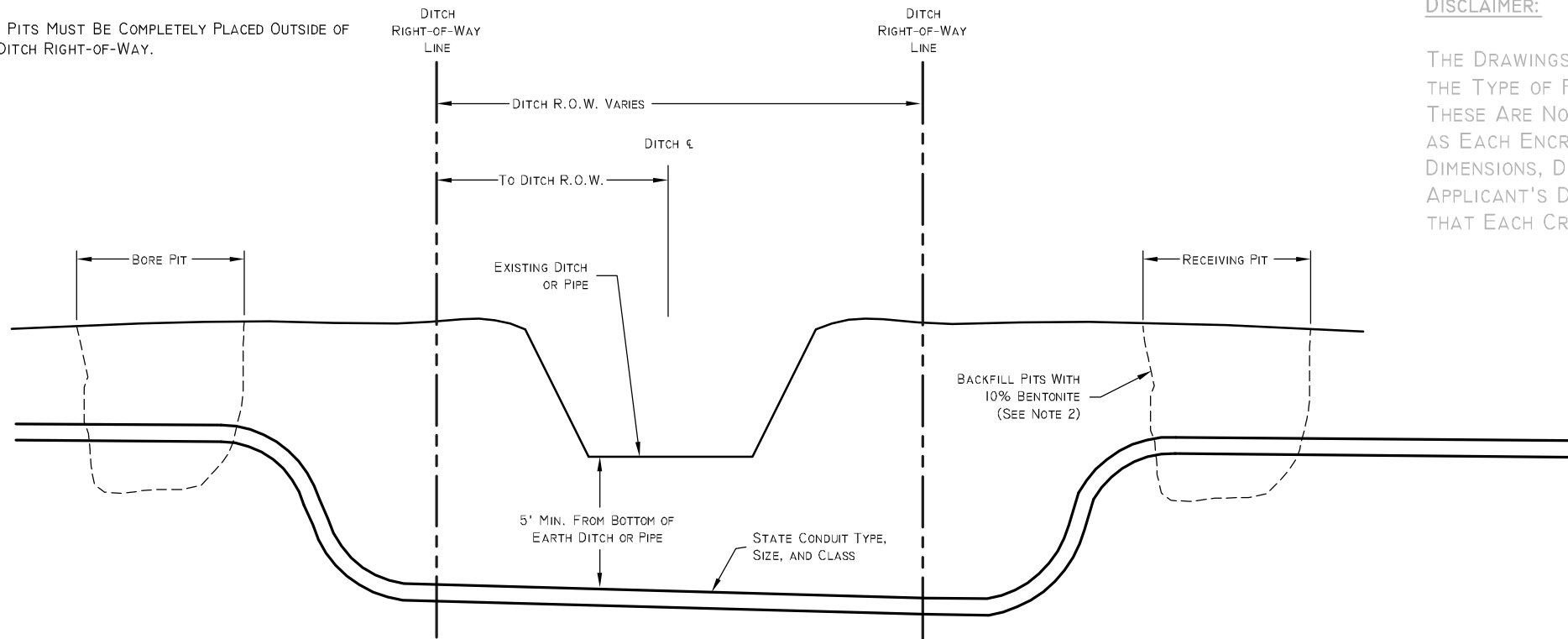
**A** DIRECTIONAL DRILL UNDER DITCH  
NTS



NOTES:  
1. MAXIMUM LIFT IS 12" BEFORE COMPACTION

**C** PIPE BEDDING TRENCH SECTION  
NTS

- NOTES:
- BORE PIT COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.
  - FILL BORE PITS WITH A MIXTURE OF NATIVE MATERIAL AND 10% BENTONITE POWDER TO CREATE A SEAL THAT WILL PREVENT WATER FROM FOLLOWING THE NEW CONDUIT.
  - CONDUIT MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING DITCH OR PIPE.
  - BORE PITS MUST BE COMPLETELY PLACED OUTSIDE OF THE DITCH RIGHT-OF-WAY.



**B** DIRECTIONAL DRILL CROSS SECTION  
NTS

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MAPLETON IRRIGATION DISTRICT & COMPANY		DESIGNER:	CHAD BROWN	PROJECT LEADER:	CHAD BROWN	PRINT DATE:	FEBRUARY 2, 2016
TYPICAL DRAWINGS		DRAWER:	MATT GUNN	CHECKED:		REVIEWED:	
DIRECTIONAL DRILLING - PIPE BEDDING		NO.		DATE		NO.	
JOB NO.		11 - Directional Drilling.dwg		DESCRIPTION			
SHEET		CU-000008		LAYOUT: Details			
10 OF 10		W:\Projects\2016\Central\Mapleton IC Reviews\Standard Drawings					