Wellsville-Mendon Conservation District

Design Standards and Standard Drawings

Sheet Index

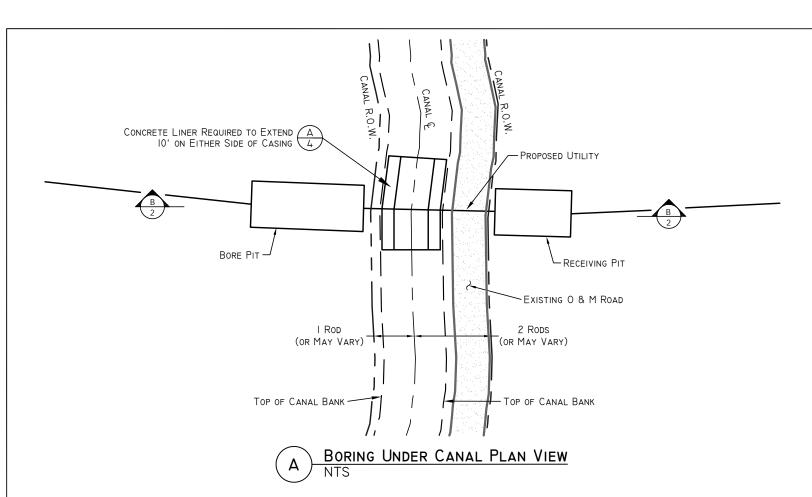
- COVER SHEET
- 2 CANAL BORING DETAILS
- 3 DIRECTIONAL DRILLING DETAILS
- 4 CANAL LINER
- 5 OPEN CUT DETAILS
- 6 Box Culvert Details
- 7 WEIR TURNOUT GATE
- 8 3-FOOT CIPOLLETTI WEIR
- 9 I-FOOT PARSHALL FLUME
- 10 IRRIGATION TURNOUT/DIVERSION BOX
- II CHECK STRUCTURE AND TURNOUT

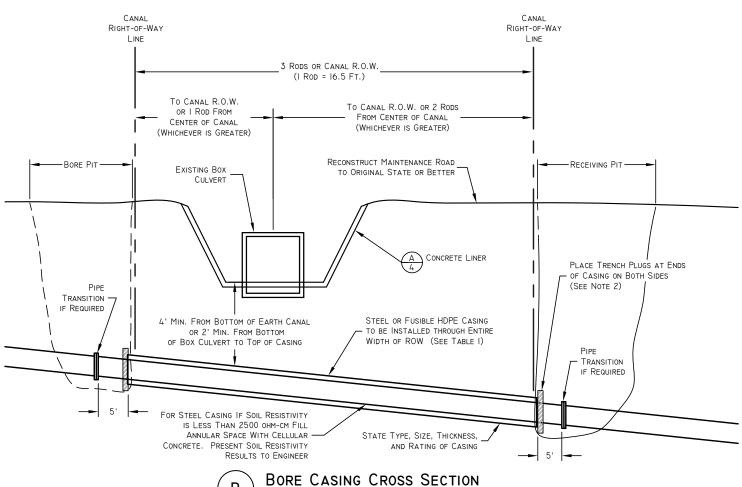
STANDARD DRAWINGS DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITIES THAT WILL BE ACCEPTABLE TO WMCD. 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 DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH CROSSING IS DESIGNED PROPERLY.

BY USING ANY DETAILS IN THESE DRAWINGS, YOU ACKNOWLEDGE THAT YOU HAVE VERIFIED THE STANDARD DRAWING DETAIL IS ADEQUATE FOR INCORPORATING INTO YOUR DESIGN. FRANSON CIVIL ENGINEERS WILL NOT BE HELD LIABLE FOR ANY USE OF THESE DRAWINGS. CONTACT VINCE HOGGE FROM FRANSON CIVIL ENGINEERS FOR ANY QUESTIONS REGARDING THESE STANDARD DRAWINGS.

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I CONSERVATION DISTRICT DESIGNER: I VINCE HOOGE CHECKED:	CHAD BROWN	MAY 6, 2021					
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JOB NO.	WELLSVILLE-MENDON CONSERVATION DISTRICT	STAMPAGE GRACINGS	STANDARD DRAWINGS	COVED CHEET	01-Cover Sheet dwg	Contract - Homestad Cam to total Constant	





Notes:

- I. BORE PIT COMPACTION TO BE 92% MODIFIED PROCTOR DENSITY.
- 2. TRENCH PLUGS ARE TO BE PLACED IN LOCATIONS SHOWN ON BOTH SIDES FOR WIDTH OF TRENCH AND I2 INCHES ABOVE AND BELOW CASING PIPES AND A MINIMUM THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE, OR SHALL BE A FLOWABLE FILL CONCRETE.
- STORMWATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT
 OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO
 PROTECT THE WORK SITE.
- 4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.
- THRUST BLOCKS ARE REQUIRED ON ALL BENDS AND TEES FOR DIP, PVC, OR PIP WATERLINES.
- 6. CASING MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR 4 FEET BELOW EARTHEN CANAL BOTTOM.
- 7. BORE PITS MUST BE COMPLETELY PLACED OUTSIDE OF THE CANAL RIGHT-OF-WAY. CANAL RIGHT-OF-WAY IS GENERALLY I-ROD ON THE UPHILL SIDE AND 2-RODS ON THE DOWNHILL SIDE FROM THE CENTER OF THE CANAL. R.O.W. DIMENSIONS MAY BE GREATER IN SOME AREAS.
- 8. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS.

TABLE I STEEL CASING THICKNESS

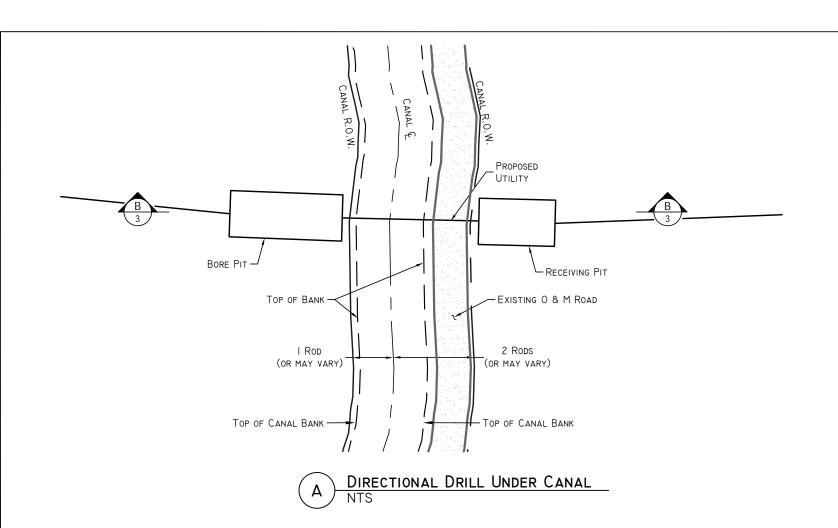
DIAMETER (INCHES)	MINIMUM WALL THICKNESS (INCHES)
12"	0.188"
14" - 16"	0.312"
18"	0.312"
20" - 22"	0.375"
24" - 26"	0.438"
28" - 32"	0.500"
34" - 36"	0.562"
38" - 42"	0.562"

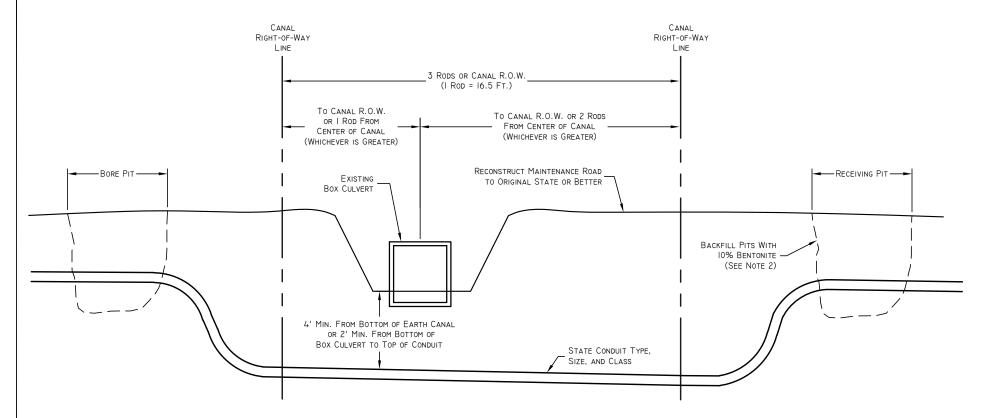
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CHAD BROWN	MAY 6, 2021								
PROJECT LEADER: CHAD BROWN	PRINT DATE:		MOIL						
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DESIGNER: VINCE HOGGE	DRAFISMAN: MATT GURR		INITS.						
DESIGNER:	DRAFTSMAN:		NO. DATE						
WELLSVILLE-MENDON CONSERVATION DISTRICT STANDARD DRAWINGS CANAL BORING DETAILS 10B NO. 02:1021 - Wellsville-Mendon Canl Reviews 2021/Standard Drawings									
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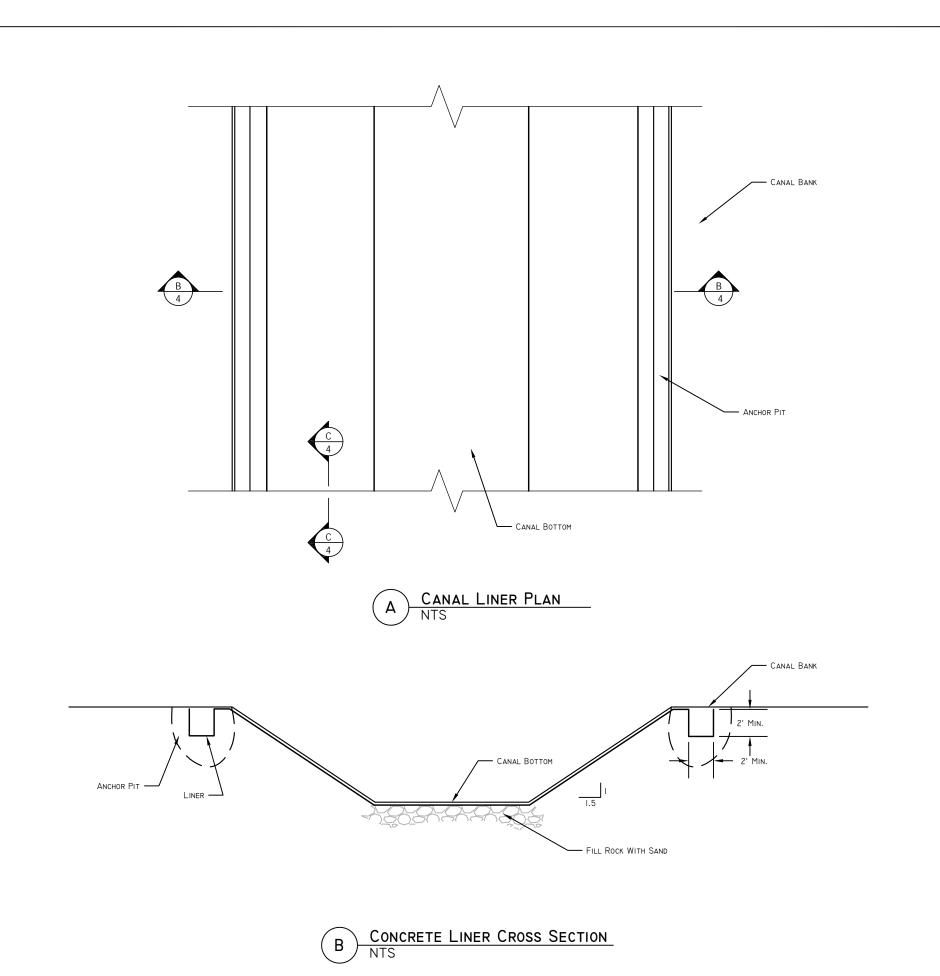
Notes:

- I. BORE PIT COMPACTION TO BE 92% MODIFIED 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.
- STORMWATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE.
- 4. CONDUIT MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR 4 FEET BELOW EARTHEN CANAL BOTTOM.
- 5. Bore Pits Must Be Completely Placed Outside of the Canal Right-of-Way. Canal Right-of-Way is Generally I Rod on the Uphill Side and 2 Rods on the Downhill Side From the Center of the Canal. ROW Dimensions May Be Greater in Some Areas.

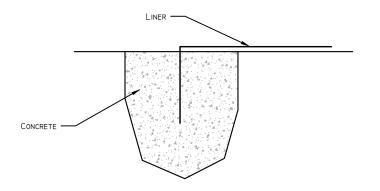
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	STANDARD DRAWINGS				REVISIONS			WELLSVILLE-MENDON
	DIBECTIONAL DELLING DETAILS	NO. DATE	DATE INITS.		DESCRIPTION	TION		
_	CINCOLOGIAL DINEFINO DE AILO							(
	103. Directional Drilling dwg							CONSERVATION DISTRICT
JOB NO.	O-2100 Wellswille-Mendon Carl Reviews 2021/Standard Drawings							

SHEET II

B DIRECTIONAL DRILL CROSS SECTION NTS

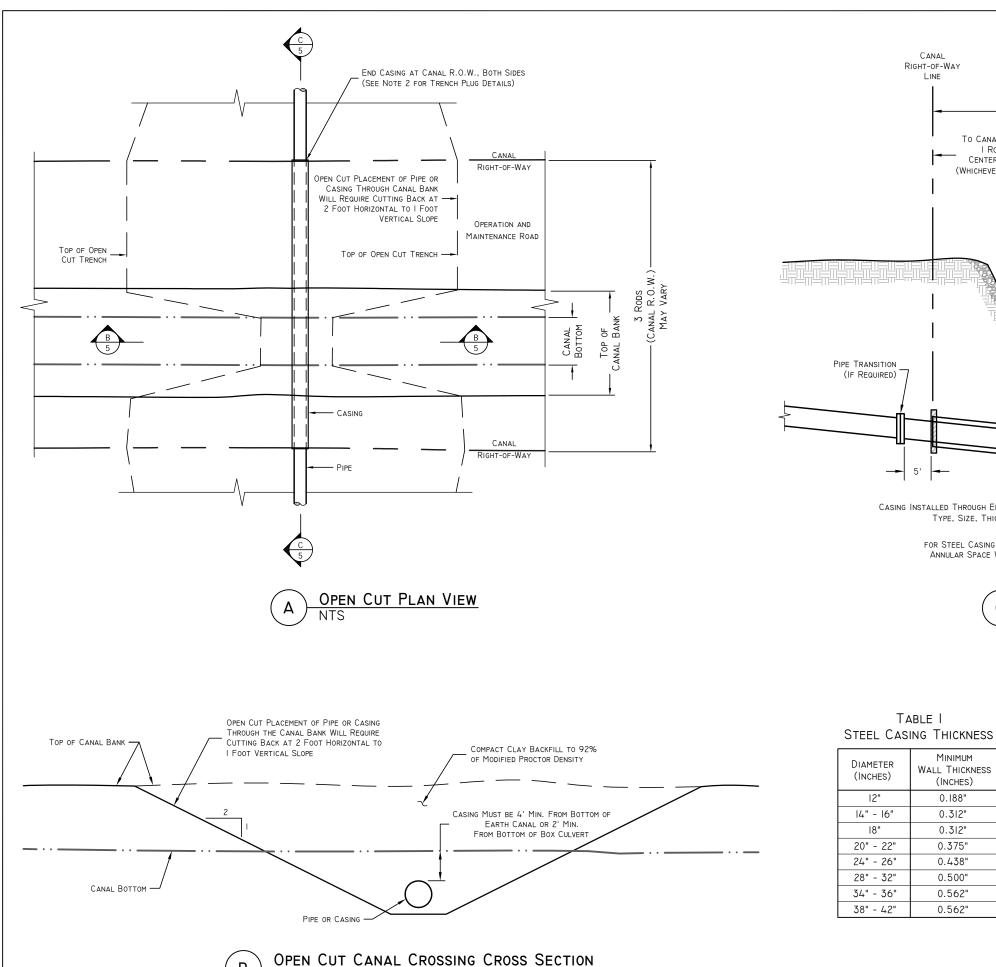


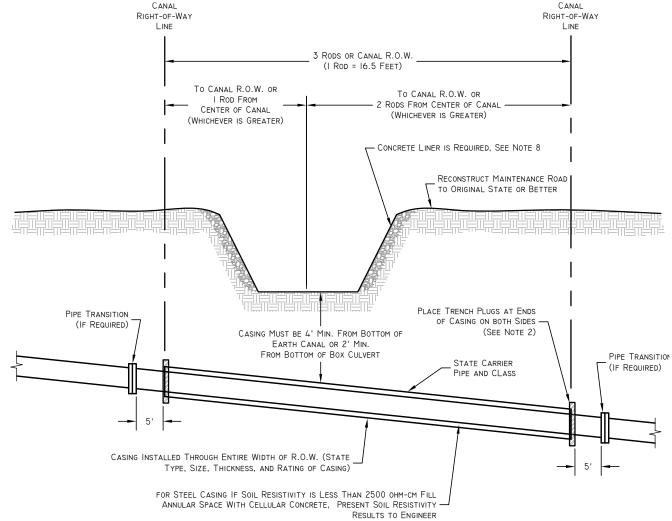
NOTE: CONCRETE ANCHOR TO STRETCH ACROSS ENTIRE LENGTH OF CANAL



C CANAL LINING ANCHOR NTS

	WELLSVILLE-ME		_	CONSERVATION D			
MAY 6, 2021							
PRINT DATE: MAY 6, 2021		DESCRIPTION					
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					JOB NO.		_
4	S	SHE O		Γ	11		





OPEN CUT CANAL CROSSING PROFILE

Notes:

TABLE I

12"

18"

MINIMUM

WALL THICKNESS

(INCHES)

0.188"

0.312"

0.312"

0.375"

0.438"

0.500"

0.562"

0.562"

- I. REMOVAL AND REPLACEMENT OF CANAL FLOOR AND BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB. COMPACTION TO BE 92% MODIFIED PROCTOR DENSITY.
- 2. TRENCH PLUGS ARE TO BE PLACED IN LOCATIONS SHOWN ON BOTH SIDES FOR WIDTH OF TRENCH AND 12 INCHES ABOVE AND BELOW CASING PIPES AND A MINIMUM THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE, OR SHALL BE A FLOWABLE FILL CONCRETE.
- 3. STORM WATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK
- 4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.
- 5. THRUST BLOCKS ARE REQUIRED ON ALL BENDS AND TEES FOR DIP, PVC, OR PIP
- 6. CASING MUST BE 4' MIN. FROM BOTTOM OF EARTH CANAL OR 2' MIN. FROM BOTTOM OF Box Culvert.
- 7. CANAL RIGHT-OF-WAY IS GENERALLY I-ROD ON THE UPHILL SIDE AND 2-RODS ON THE DOWNHILL SIDE FROM THE CENTER OF THE CANAL. R.O.W. DIMENSIONS MAY BE GREATER IN SOME AREAS.
- 8. CONCRETE LINER IS TO BE INSTALLED IN THE CANAL EXTENDING 5 FEET PAST THE EXTENTS OF CANAL DISTURBANCE SEE DETAIL. \bigcirc
- 9. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS.

DESIGNER:	DRAFTSMAN:		NO. DATE				
WELLSVILLE-MENDON CONSERVATION DISTRICT	SOMMADO GOAGIAA FO	STANDARD DRAWINGS	OPEN CIT DETAILS	105-Onen Cut Details dura	JOB NO. ON 1001 - Wellerills-Mendon Can Berriams 2001/Standord Drewings	OFFICE - 1707 OFFICE CHILD TOWNS OF TOWN OFFICE CHILD TOWNS OF TOWN OF TOWN OF TOWN OF TOWN OFFICE CHILD TOWN OF TOWN OFFICE CHILD TOWN OF TOW	

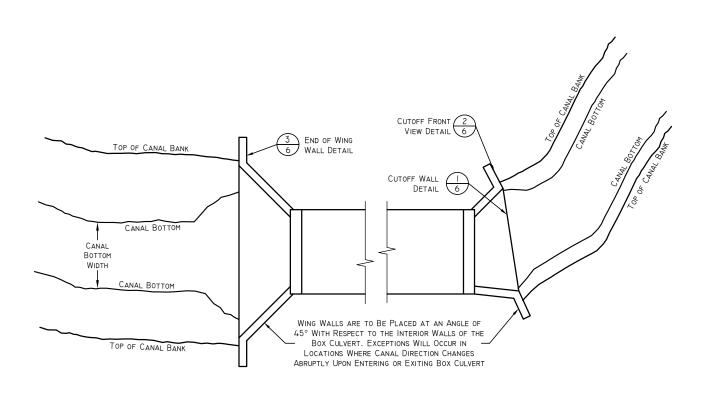
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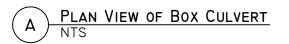
5 of 11

DISTRICT

CONSERVATION

WELLSVILLE-MENDON





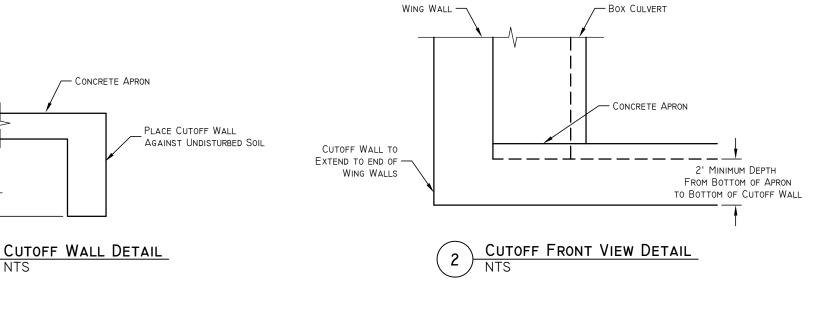
2' MIN. DEPTH FROM

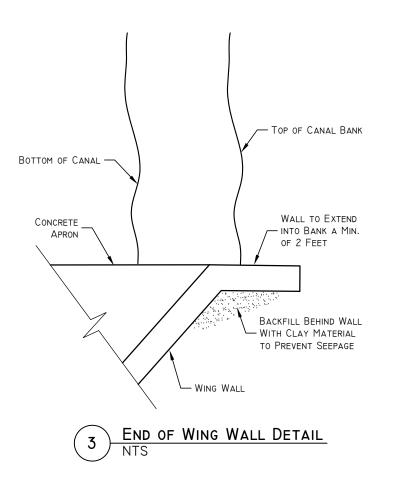
BOTTOM OF APRON TO

BOTTOM OF CUTOFF WALL

Notes:

- I. Box Culverts to Have a Minimum Height of 6 Feet.
- 2. WIDTH OF BOX CULVERT IS TO MATCH EXISTING CHANNEL BOTTOM.
- 3. NO RIPRAP ALLOWED IN THE CANAL.
- 4. Access to Canal Operation and Maintenance Road Shall be Installed with Curb Cuts at Drive Approaches and Thickened Concrete at Sidewalks.
- 5. CUTOFF WALLS AND APRONS BETWEEN WING WALLS ARE REQUIRED.
- 6. END OF WING WALL SHALL NOT INTERFERE WITH OPERATION AND MAINTENANCE ROAD.
- 7. 6 FOOT CHAIN LINK FENCE OR 4 FOOT PARAPET WALL IS REQUIRED ON ALL BOX CULVERTS THAT CARRY PEDESTRIAN TRAFFIC. EXCEPTIONS MAY OCCUR WHERE LOCAL ORDINANCES NOTE OTHERWISE AND UPON APPROVAL BY CANAL COMPANY.
- 8. Drawings Submitted for Review are to Show Plan and Profile Views, Note Slope, Include Detail Indicating Rebar Size and Spacing, and State Traffic Loading.
- 9. CASINGS MUST HAVE A MINIMUM OF 2 FEET BETWEEN TOP OF CASING AND BOTTOM OF BOX CULVERT.
- 10. ALL CONCRETE USED IN CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT.





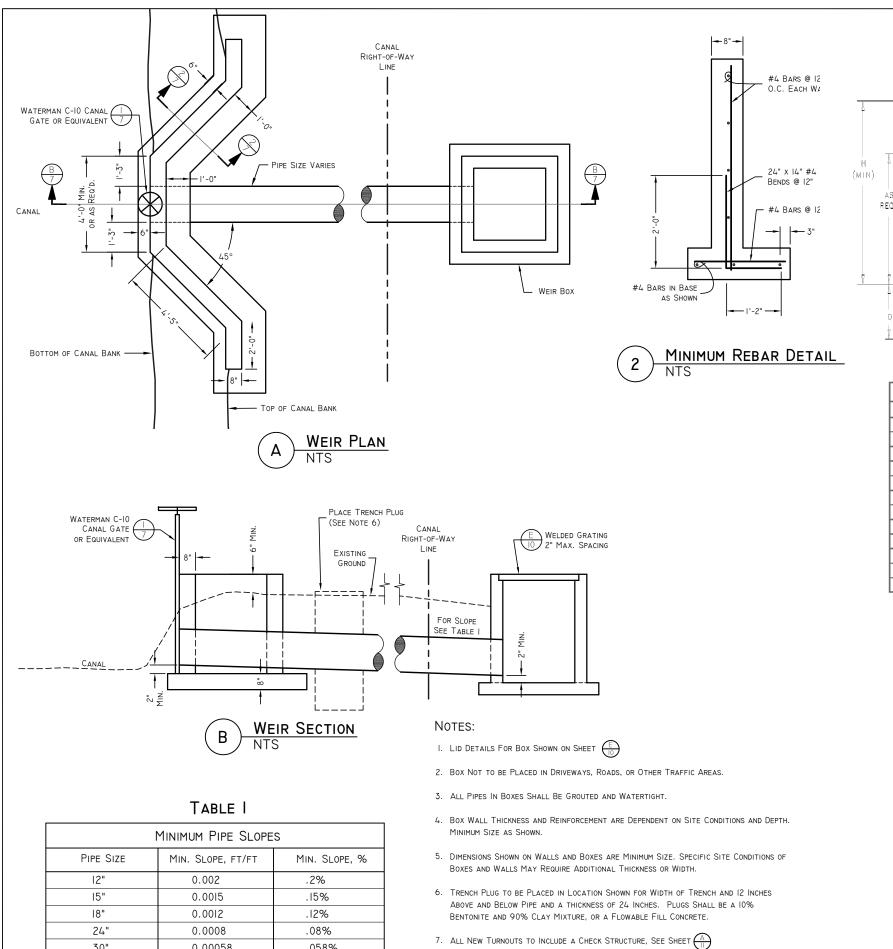
DISTRICT

CONSERVATION

WELLSVILLE-MENDON

WELLSVILLE-MENDON CONSERVATION DISTRICT
STANDARD DRAWINGS
BOX CULVERT DETAILS

SHEET 6 OF 11



8. THE INVERT OF THE TURNOUT PIPE SHALL MATCH THE BOTTOM OF THE CANAL AND NOT THE

CURRENT SILT LAYER.

0.00058

.058%

30"

H I		10 6	RED WAT MODE CANA	DIA O TOP O L GATE IE XX	8 9BOLT DIA PROJ = N - STOP BOLT J - BOLT DIA PROJ = 4 PLCS			36 REC TINCH TH GROUT PA BY OTHER	on 48" and 2. Applies to Optional sydetail. 3. All dimens model CL- 4. Add grout projection. 5. Type 3E 2 headrail.	pricated ball bearing lift used larger gates. spigotback gate only. olgot, shown in separate ions are also applicable for 10 & CM-10 gates. pad thickness to anchor bolt. I lift used, mounted to dual. BOLT OR RIVET orrugated Pipe ached to Spigot	
		PARTS LIST								Back Frame	
	No.	Name	Qty.								
	1	Frame	1		-		ADAPTOR	_			
	2	Cover	1				S PLASTIC INSER	łΤ	7	r 1/4	
	3	Wedge (Right & Left)	1 ea.		27.4.2		T		7,777	1	
	4	Stem	1								
	5	Wedge Bolts	4				¥				
		1		1							

lead Rail

_ift Collar

Handwheel

GATE DIMENSIONS IN INCHES

Lift Nut

12 L	imit Nut			1															
Α	В	С	D	Е	F	G	Н	J	К	L	M 2	N	P 2	Q	R	S	Т	V	W
6	8	9%	4	%	21/8	10	24	3	31/2	2%	7	31/2	21/4	1/2	-	-	-	6.160	6.645
8	10	12	4%	7∕8	21/8	10	24	3	3¾	21/2	9	31/2	21/4	1/2	4	713/ie	8	8.180	8.645
10	12	13%	6	7∕8	2%	10	24	31/2	3¾	21/2	11	3½	21/4	1/2	31/8	97/8	10	10.220	10.770
12	14	15%	7	7/a	21/8	10	24	4	3½	3	13	4	21/4	1/2	4	11%	12	12.270	12.780
14	16	17%	8	7∕8	21/8	10	27	43/4	3¾	31/4	15	4	21/4	1/2	-	-	-	-	-
15	17	18%	8%	7∕8	27/e	10	30	5	4½	3½	16	4	2½	1/2	4	14%	15	-	-
16	18¾	20%	9%	7∕8	21/8	10	32	51/2	41/2	31/2	17	41/2	21/4	5∕8	-	-	-	-	-
18	21	221/8	101/2	1	31/8	12	34	6	41/2	41/4	19	4½	21/4	5/8	4	171% e	18	-	-
20	231/4	251/8	113/4	1	31/8	12	38	7	4¾	4	21	41/2	21/4	5/8	-	-	-	-	-
21	24	25%	12%e	1	31/a	12	40	7	4¾	4	22	41/2	21/4	5/8	-	-	-	-	-
24	271/4	29⅓	131/8	1	3½	12	44	8	5¾	4½	25	4½	21/4	5/6	-	-	-	-	-
30	33¾	361/8	17%	11/a	4	15	54	10	6	41/2	31	6	21/4	3/4	-	-	-	-	-
36	3934	42½	20½	1 ½	4	15	62	12	61/4	5%	37	6	21/8	3/4	-	-	-	-	-
42	45¾	48%	23%	11/2	5	18	84	14	7	6	43	6	21/2	3/4	-	-	-	-	-
48	5194	54%	26%	11/2	6	24 1	90	16	7%	61/8	49½	6	21/2	3/4	-	-	-	-	-
54	58½	61½	30	2	6	30 1	100	18	7%	6½	551/8	7	3	1	-	-	-	-	-
60	65	68	34	2	6	30 1	102	20	81/8	71/a	611/8	8	31/4	1	-	-	-	-	-
72	771/2	801/4	41	2	13	5	121	25½	10%	8%	731/4	8	3%	1	-	-	-		-

`— PIP PL4STIC INSERT

CIP

WATERMAN C-10 CANAL GATE

NOTE: DETAIL I INFORMATION TAKEN FROM WATERMAN USA WEBSITE.

DISTRICT

CONSERVATION

WELLSVILLE-MENDON

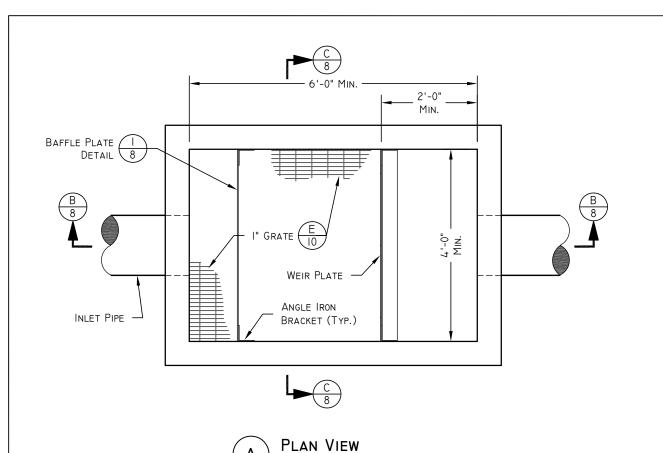
MELENILE-MENDON CONSERVATION DISTRICT
STANDARD DRAWINGS
WEIR TURNOUT GATE

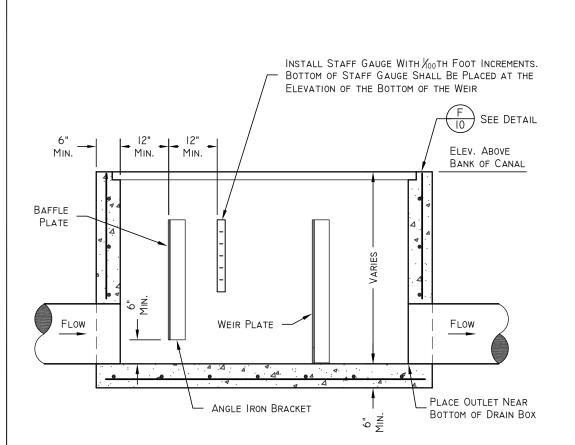
SHEET

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CM-10

Type 4 Spigot





INLET AND OUTLET CROSS SECTION



GALVANIZED STEEL BAFFLE

BAFFLE MAY BE EMBEDDED INTO CONCRETE OR BOLTED

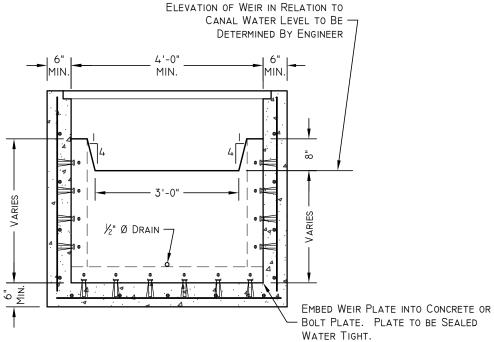
I'-6"
MIN.



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

Н (Fт.)	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

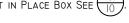
NOTE: THIS WEIR IS SHOWN AS AN EXAMPLE. THE EXACT WEIR DIMENSIONS & FLOW TABLE TO BE DETERMINED BY APPLICANTS ENGINEER.



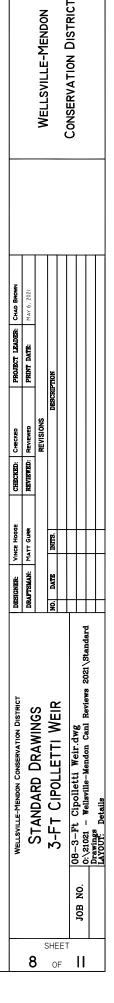
C WEIR SECTION NTS

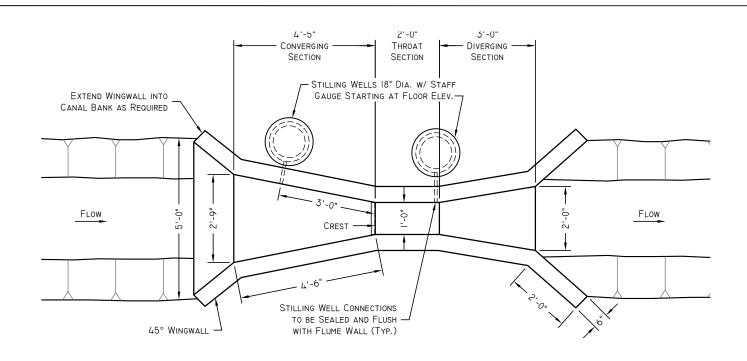
Notes:

- IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT I2 INCHES O.C. E.W. MINIMUM.
- 2. DETAILS FOR CAST IN PLACE BOX SEE



- ALL PIPES IN BOX SHALL BE GROUTED AND WATERTIGHT.
- 4. SUBMIT TO CANAL COMPANY ENGINEER FOR REVIEW ON FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- 5. GRATE TO BE GALVANIZED.

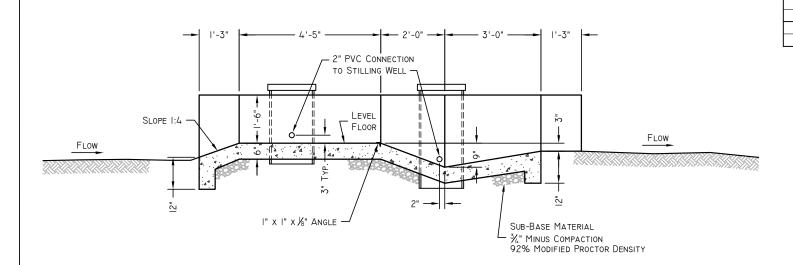






Notes:

- REINFORCING TO BE MINIMUM OF #4 REBAR @ 12 INCHES ON CENTER, EACH WAY WITH 20 INCH MINIMUM SPLICE LENGTH.
- 2. APPLICANT TO SUBMIT ACTUAL PLANS AND MATERIAL OF FLUME PRIOR TO CONSTRUCTION.



<u>TABLE I</u>

HEAD-FLOW RELATIONSHIP FOR CONCRETE FLUME

		_			
HEAD Ha FEET)	FLOW Q (CFS)		HEAD Ha (FEET)	FLOW Q (CFS)	HEAD Ha (FEET)
0.20	0.35		0.42	1.07	0.64
0.21	0.37		0.43	1.11	0.65
0.22	0.40		0.44	1.15	0.66
0.23	0.43		0.45	1.19	0.67
0.24	0.46		0.46	1.23	0.68
0.25	0.49		0.47	1.27	0.69
0.26	0.51		0.48	1.31	0.70
0.27	0.54		0.49	1.35	0.71
0.28	0.58		0.50	1.39	0.72
).29	0.61		0.51	1.44	0.73
0.30	0.64		0.52	1.48	0.74
0.31	0.68		0.53	1.52	0.75
0.32	0.71		0.54	1.57	0.76
0.33	0.74		0.55	1.62	0.77
).34	0.77		0.56	1.66	0.78
0.35	0.80		0.57	1.70	0.79
).36	0.84		0.58	1.75	0.80
0.37	0.88		0.59	1.80	0.81
0.38	0.92		0.60	1.84	0.82
0.39	0.95		0.61	1.88	0.83
0.40	0.99		0.62	1.93	0.80
0.41	1.03		0.63	1.98	0.85

HEAD Ha (FEET)	FLOW Q (CFS)		HEAD Ha (FEET)	FLOW Q (CFS)
0.64	2.03		0.86	3.18
0.65	2.08		0.87	3.24
0.66	2.13		0.88	3.29
0.67	2.18	1	0.89	3.35
0.68	2.23	1	0.90	3.41
0.69	2.28		0.91	3.46
0.70	2.33		0.92	3.52
0.71	2.38	1	0.93	3.58
0.72	2.43]	0.94	3.64
0.73	2.48		0.95	3.70
0.74	2.53	1	0.96	3.76
0.75	2.58		0.97	3.82
0.76	2.63		0.98	3.88
0.77	2.68		0.99	3.94
0.78	2.74	1	1.00	4.00
0.79	2.80]	1.01	4.06
0.80	2.85	1	1.02	4.12
0.81	2.90		1.03	4.18
0.82	2.96		1.04	4.25
0.83	3.02	1	1.05	4.31
0.80	3.07		1.06	4.37
0.85	3.12	1	1.07	4.43

HEAD Ha (FEET)	FLOW Q (CFS)	HEAD Ha (FEET)	FLOV Q (CFS
1.08	4.50	1.30	5.96
1.09	4.56	1.31	6.03
1.10	4.62	1.32	6.10
1.11	4.68	1.33	6.18
1.12	4.75	1.34	6.25
1.13	4.82	1.35	6.32
1.14	4.88	1.36	6.39
1.15	4.94	1.37	6.46
1.16	5.01	1.38	6.53
1.17	5.08	1.39	6.60
1.18	5.15	1.40	6.68
1.19	5.21	1.41	6.75
1.20	5.28	1.42	6.82
1.21	5.34	1.43	6.89
1.22	5.41	1.44	6.97
1.23	5.48	1.45	7.04
1.24	5.55	1.46	7.12
1.25	5.62	1.47	7.19
1.26	5.69	1.48	7.26
1.27	5.76	1.49	7.34
1.28	5.82	1.50	7.4
1.29	5.89		

NOTE: THIS FLUME IS SHOWN AS AN EXAMPLE. THE EXACT FLUME DIMENSIONS & FLOW TABLE TO BE DETERMINED BY APPLICANTS ENGINEER.

WELLSVILLE-MENDON CONSERVATION DISTRICT STANDARD DRAWINGS STANDARD DRAWINGS -FT PARSHALL FLUME O9-1-Rt Parshall Flume.dwg Occition Parshall Flume.d	AD BROWN	MAY 6, 2021							
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WELLSVILLE-MENDON
CONSERVATION DISTRICT

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