Utah Lake Distributing Company (Riverton Branch)

Design Standards and Standard Drawings

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STANDARD DRAWINGS DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITIES THAT WILL BE ACCEPTABLE TO ULDC. 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 KYLE DEVANEY FROM FRANSON CIVIL ENGINEERS FOR ANY QUESTIONS REGARDING THESE STANDARD DRAWINGS.

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UTAH LAKE DISTRIBUTING COMPANY (ULDC-RIVERTON) CANAL NOTES

NOTES TO BE ADDED TO THE DRAWING SET UNDER HEADING LABELED "ULDC CANAL NOTES"

□ NOTIFICATION MUST BE GIVEN AT LEAST 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION WORK AND RE-NOTIFICATION OF RE-COMMENCEMENT OF WORK FOLLOWING ANY CESSATION OF WORK FOR MORE THAN 4 (FOUR) DAYS, CALL KYLE DEVANEY AND THE CANAL WATER MASTER. FAILURE TO DO SO MAY RESULT IN A \$5,000 FINE

□ CONTACT INFORMATION FOR FRANSON CIVIL AND ULDC:

- 0 KYLE DEVANEY, P.E., FRANSON CIVIL ENGINEERS, 801-756-0309
- PATRICIA AYAA., FRANSON CIVIL ENGINEERS, 801-756-0309 0
- GREG ALLRED. PRESIDENT, UTAH LAKE DISTRIBUTING COMPANY
- BRENT MICHAELSON, WATER MASTER, ULDC RIVERTON CANAL, 801-673-1568
- ANY CHANGES IN DESIGN DRAWINGS AFTER THE ENCROACHMENT AGREEMENT HAS BEEN EXECUTED MUST BE REVIEWED AND ACCEPTED BY FRANSON CIVIL ENGINEERS AND UTAH LAKE DISTRIBUTING COMPANY.
- WORK CANNOT INTERFERE WITH DELIVERY OF WATER. CONSTRUCTION WITHIN CANAL CORRIDORS THAT IMPACTS THE CANAL OR OPERATION & MAINTENANCE ROAD (O&M ROAD) MUST BE COMPLETED BETWEEN OCTOBER 15 AND APRIL 1.
- ALL CONSTRUCTION WITHIN THE CANAL CORRIDOR MUST BE COMPLETED TO LITAH LAKE DISTRIBUTING COMPANY STANDARDS.
- I E DISTURBED THE CANAL ORM ROAD SHALL BE REINSTALLED FOLLOWING CONSTRUCTION ORM ROAD MUST BE AVAILABLE FOR USE BY CANAL PERSONNEL NO LATER THAN APRIL I.
 - O THE ORM ROAD SHALL BE GRADED AT A 2% SLOPE AWAY FROM THE CANAL

AFTER PLACING AND COMPACTING NATIVE MATERIAL PLACE A MINIMUM OF TWO INCHES OF COMPACTED ROADBASE ON ROAD SURFACE. COMPACTION SHALL BE 95% STANDARD PROCTOR DENSITY.

- 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. ANY DAMAGE TO THE CANAL CORRIDOR CAUSED BY CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- NEITHER ULDC NOR FRANSON CIVIL CAN VERIEV THE LOCATIONS OF UNDERGROUND FACILITIES. BLUE STAKES SHOULD ALWAYS BE CALLED BEFORE DIGGING (1-800-662-4111).
- □ IF DISTURBED, THE CANAL O&M ROAD SHALL BE REINSTALLED FOLLOWING CONSTRUCTION. O&M ROAD MUST BE AVAILABLE FOR USE BY CANAL PERSONNEL NO LATER THAN APRIL I.
 - O THE O&M ROAD SHALL BE GRADED AT A 2% SLOPE AWAY FROM THE CANAL

AFTER PLACING AND COMPACTING NATIVE MATERIAL, PLACE A MINIMUM OF TWO INCHES OF COMPACTED ROADBASE ON ROAD SURFACE. COMPACTION SHALL BE 95% STANDARD PROCTOR DENSITY.

- APPLICANT IS REQUIRED TO PERFORM COMPACTION TESTING AT THE APPLICANT'S COST. IF REQUESTED, COMPACTION TEST RESULTS SHALL BE SUBMITTED TO FRANSON CIVIL ENGINEERS. ALL FAILED MATERIAL SHALL BE REMOVED AND COMPACTED TO SPECIFICATIONS. TESTING MUST BE PERFORMED BY A LICENSED SOILS LAB
- □ ALL BACKFILL MATERIALS PLACED WITHIN THE CANAL RIGHT-OF-WAY SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY
- □ ALL CONCRETE USED IN THE CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT.
- □ IF CAST-IN-PLACE CONCRETE IS PLACED NEXT TO PRE-CAST CONCRETE, WATERSTOP RX, SWELLSTOP, OR AN APPROVED EQUIVALENT SHALL BE PLACED TO PREVENT SEEPAGE BETWEEN THE SURFACES.
- DPVC WATER STOP, OR EQUIVALENT, IS REQUIRED IN ALL JOINTS OF CAST-IN-PLACE CONCRETE.

BORING

- CONTRACTOR TO NOTIFY KYLE DEVANEY OF FRANSON CIVIL ENGINEERS WHEN TRENCH PLUGS ARE INSTALLED. VERIFICATION OF TRENCH PLUG COMPLETION MUST BE PERFORMED BY FRANSON CIVIL ENGINEERS BEFORE BACKFILLING. KYLE CAN BE REACHED AT 801-756-0309
- □ TRENCH PLUGS ARE TO BE PLACED AT EACH END OF THE CASING.
- □ TRENCH PLUGS ARE TO EXTEND THE WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW CASING PIPES, AND WITH A THICKNESS OF 24 INCHES.
- □ TRENCH PLUGS SHALL BE 10% BENTONITE AND 90% CLAY MIXTURE. AT LEAST 40% OF THE BACKFILL MATERIAL MUST PASS A NO. 200 U.S. STANDARD SIEVE PRIOR TO ADDING BENTONITE POWDER. THE BACKFILL MATERIAL SHALL THEN BE AMENDED BY ADDING AND THOROUGHLY MIXING COMMERCIAL BENTONITE POWDER WITH THE BACKEUL MATERIAL AT A RATIO OF ONE-PART RENTONITE TO NINE PARTS BACKEUL MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.
- □ BORE PIT COMPACTION SHALL 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.
- □ SILT COLLECTS AT THE BOTTOM OF THE CANAL. THE INSTALLATION OF THE CONCRETE LINER SHALL MATCH THE BOTTOM OF THE CANAL AND NOT THE CURRENT SILT LAYER.
- □ REBAR FOR THE CANAL LINER SHALL BE A MINIMUM OF #4 BAR AT 12 INCHES ON CENTER.
- A TWO-FOOT-DEEP CONCRETE CUTOFF WALL IS REQUIRED ON BOTH ENDS OF THE CONCRETE LINER.

DIRECTIONAL DRILLING AND MICROTRENCHING

UWORK CANNOT INTERFERE WITH DELIVERY OF WATER. INSTALLATION ACTIVITIES MAY TAKE PLACE AT ANY TIME PROVIDED ULDC'S ACCESS TO OPERATION, MAINTENANCE, AND REPLACEMENT OF IRRIGATION FACILITIES IS NOT IMPACTED.

- □ IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE. ANY DAMAGE TO THE CANAL CORRIDOR CAUSED BY CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- BORE PLT COMPACTION SHALL BE A MINIMUM OF 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.

OPEN CUT OF CANAL

ADD THE FOLLOWING NOTES TO PLANS UNDER HEADING "ULDC CANAL NOTES"

- CONTRACTOR TO NOTIFY KYLE DEVANEY OF FRANSON CIVIL ENGINEERS WHEN TRENCH PLUGS ARE INSTALLED. VERIFICATION OF TRENCH PLUG COMPLETION MUST BE PERFORMED BY FRANSON CIVIL ENGINEERS BEFORE BACKFILLING. KYLE CAN BE REACHED AT 801-756-0309.
- □ TRENCH PLUGS ARE TO BE PLACED AT EACH END OF THE CASING
- \square Trench plugs are to extend the width of trench, 12 inches above and below casing pipes, and WITH A THICKNESS OF 24 INCHES.
- □ TRENCH PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE. AT LEAST 40% OF THE BACKFILL MATERIAL MUST PASS A NO. 200 U.S. STANDARD SIEVE PRIOR TO ADDING BENTONITE POWDER. THE BACKFILL MATERIAL SHALL THEN BE AMENDED BY ADDING AND THOROUGHLY MIXING COMMERCIAL BENTONITE POWDER WITH THE BACKFILL MATERIAL AT A RATIO OF ONE-PART BENTONITE TO NINE PARTS BACKFILL MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.
- CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM
- □ SILT COLLECTS AT THE BOTTOM OF THE CANAL. THE INSTALLATION OF THE CONCRETE LINER SHALL MATCH THE BOTTOM OF THE CANAL AND NOT THE CURRENT SILT LAYER.
- \square Rebar for the canal liner shall be a minimum of #4 bar at 12 inches on center.
- A TWO-FOOT-DEEP CONCRETE CUTOFF WALL IS REQUIRED ON BOTH ENDS OF THE CONCRETE LINER.

ADD THE FOLLOWING NOTES TO PLANS UNDER HEADING "ULDC CANAL NOTES" IF CANAL IS EARTHEN

- □ THE CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION (EXCLUDING UNDER CONCRETE LINER) SHALL BE REPLACED WITH A 12-INCH MINIMUM THICKNESS OF 10⁻⁰ CM/SEC PERMEABILITY CLAY MATERIAL, IN 6-INCH MAXIMUM LIFTS.
- ALL REPLACED MATERIALS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY
- THE TRENCH THROUGH THE CANAL MAY BE CUT AS LITTLE AS 1/4 HORIZONTAL TO | VERTICAL.

ADD THE FOLLOWING NOTES TO PLANS UNDER HEADING "ULDC CANAL NOTES" IF CANAL IS CONCRETE-LINED

- THE EXISTING CONCRETE SECTION MUST BE SAWCUT TO GIVE A CLEAN EDGE FOR THE REPLACEMENT SECTION.
- □ THE TRENCH THROUGH THE CANAL MAY BE CUT AS LITTLE AS ¼ HORIZONTAL TO I VERTICAL TO MINIMIZE THE AMOUNT OF CONCRETE LINER THAT NEEDS TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIEY THAT COMPACTION WILL NOT BE AFFECTED.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. NATIVE MATERIAL MAY BE USED.

BOX AND PIPE CULVERTS

- CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION (BETWEEN APRON AND UNDISTURBED CANAL) SHALL BE REPLACED WITH A 12_INCH MINIMUM THICKNESS OF 10⁻⁶ CM/SEC PERMEABILITY CLAY MATERIAL IN 6-INCH MAXIMUM LIFTS.
- COMPACTION AROUND THE BOX CULVERTS TO MEET MANUFACTURER REQUIREMENTS OR A MINIMUM OF 95% STANDARD PROCTOR DENSITY
- CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM
- DPEN-CUT TRENCHES FOR THE CUTOFF WALLS SHALL BE CUT AT A MINIMUM OF 2 HORIZONTAL TO I VERTICAL SO THAT BACKELL CAN BE PROPERLY COMPACTED.
- □ IF EXTENDING AN EXISTING BOX CULVERT, WATERSTOP RX, SWELLSTOP, OR AN APPROVED EQUIVALENT, SHALL BE PLACED BETWEEN THE OLD CHLVERT AND THE NEW CHLVERT TO PREVENT SEEPAGE MASTIC IS NOT ACCEPTABLE
- CONDUITS SHOWN ON THESE DRAWINGS DO NOT GIVE PERMISSION FOR THE CONDUIT TO BE OCCUPIED BY AN ENTITY OTHER THAN THE ORIGINAL APPLICANT. FACH ENTITY CROSSING THE CANAL MUST APPLY FOR, AND RECEIVE, AN ENCROACHMENT AGREEMENT FROM THE UTAH LAKE DISTRIBUTING COMPANY.
- □ SIGNS MUST BE PLACED AT EACH ENTRANCE TO THE CANAL O&M ROAD THAT STATE:
 - O NO TRESPASSING. WARNING: CANAL MAINTENANCE ROAD, AUTHORIZED PERSONNEL ONLY. NO SWIMMING OR TUBING.

TURNOUT/WEIR

- COMPACTION OF ALL REPLACED EMBANKMENT MATERIAL SHALL BE IMPERMEABLE MATERIAL, MEETING A STANDARD PROCTOR DENSITY OF 95%.
- A TRENCH PLUG IS REQUIRED BEHIND THE HEAD WALL. TRENCH PLUG TO BE PLACED IN LOCATION SHOWN FOR WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW THE PIPE, AND A THICKNESS OF 24 INCHES.
- □ TRENCH PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE. AT LEAST 40% OF THE BACKFILL MATERIAL MUST PASS A NO. 200 U.S. STANDARD SIEVE PRIOR TO ADDING BENTONITE POWDER. THE BACKFILL MATERIAL SHALL THEN BE AMENDED BY ADDING AND THOROUGHLY MIXING COMMERCIAL BENTONITE POWDER WITH THE BACKFILL MATERIAL AT A RATIO OF ONE PART BENTONITE TO NINE PARTS BACKFILL

BOXES

- PIPES OR SHALL BE CAST-IN-PLACE.
- □ ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT WITH A CONCRETE COLLAR.

STORMWATER DISCHARGE THROUGH A DETENTION BASIN

- PROCTOR DENSITY IN 6-INCH MAXIMUM LIFTS.
- CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM
- □ ORIFICE PLATE MUST BE GALVANIZED OR ALUMINUM.

STORM DRAIN DISCHARGE INTO CANAL

EASEMENTS

MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.

□ TURNOUT, DIVERSION, AND WEIR BOXES SHALL NOT BE PLACED IN THE ROADWAY.

□ KNOCK OUT BOXES ARE NOT ALLOWED. ALL BOXES SHALL BE PRE-CAST WITH CORED OPENINGS FOR THE

BOXES SHALL NOT BE BURIED. THEY SHALL EXTEND TO THE SURFACE OF THE FINAL GRADE. ANY EXISTING BOXES THAT WILL NOT EXTEND TO THE FINAL GRADE SURFACE SHALL BE EXTENDED TO MATCH THE FINAL GRADE. IF THE BOX HAS GATES, THE BOX SHALL EXTEND 6 INCHES ABOVE THE GROUND SURFACE. A

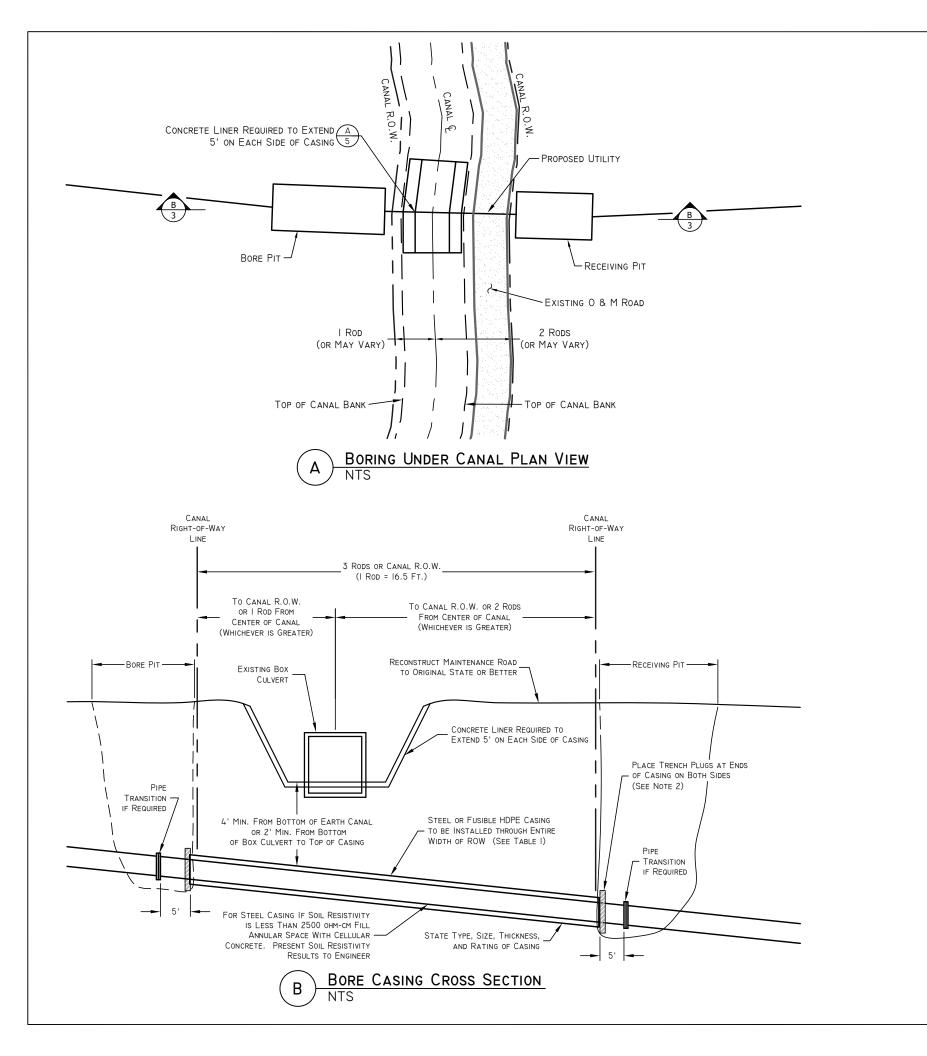
CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION SHALL BE REPLACED WITH 12_INCH minimum thickness of 10^{-6} cm/sec permeability clay material, compacted to 95% standard

CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION (EXCLUDING UNDER CONCRETE LINER) SHALL BE REPLACED WITH 12_INCH MINIMUM THICKNESS OF 10⁻⁶ CM/SEC PERMEABILITY CLAY MATERIAL, COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6-INCH MAXIMUM LIFTS.

CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM

□ ADD A NOTE TO THE DRAWINGS, STATING: "NO FOLIAGE, STRUCTURES, OR OTHER UNAUTHORIZED IMPROVEMENTS ARE ALLOWED IN UTAH LAKE DISTRIBUTING COMPANY CORRIDORS.

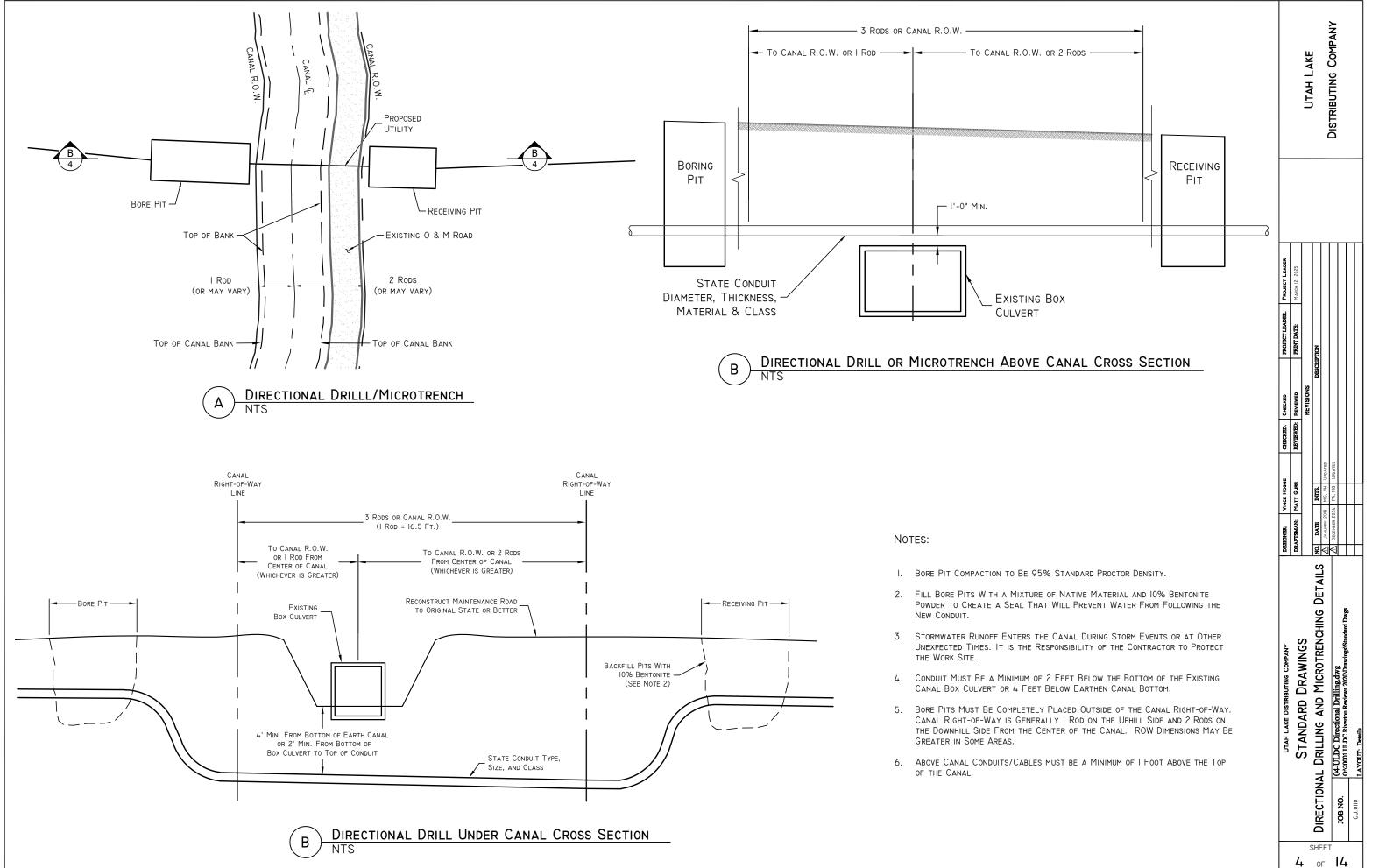
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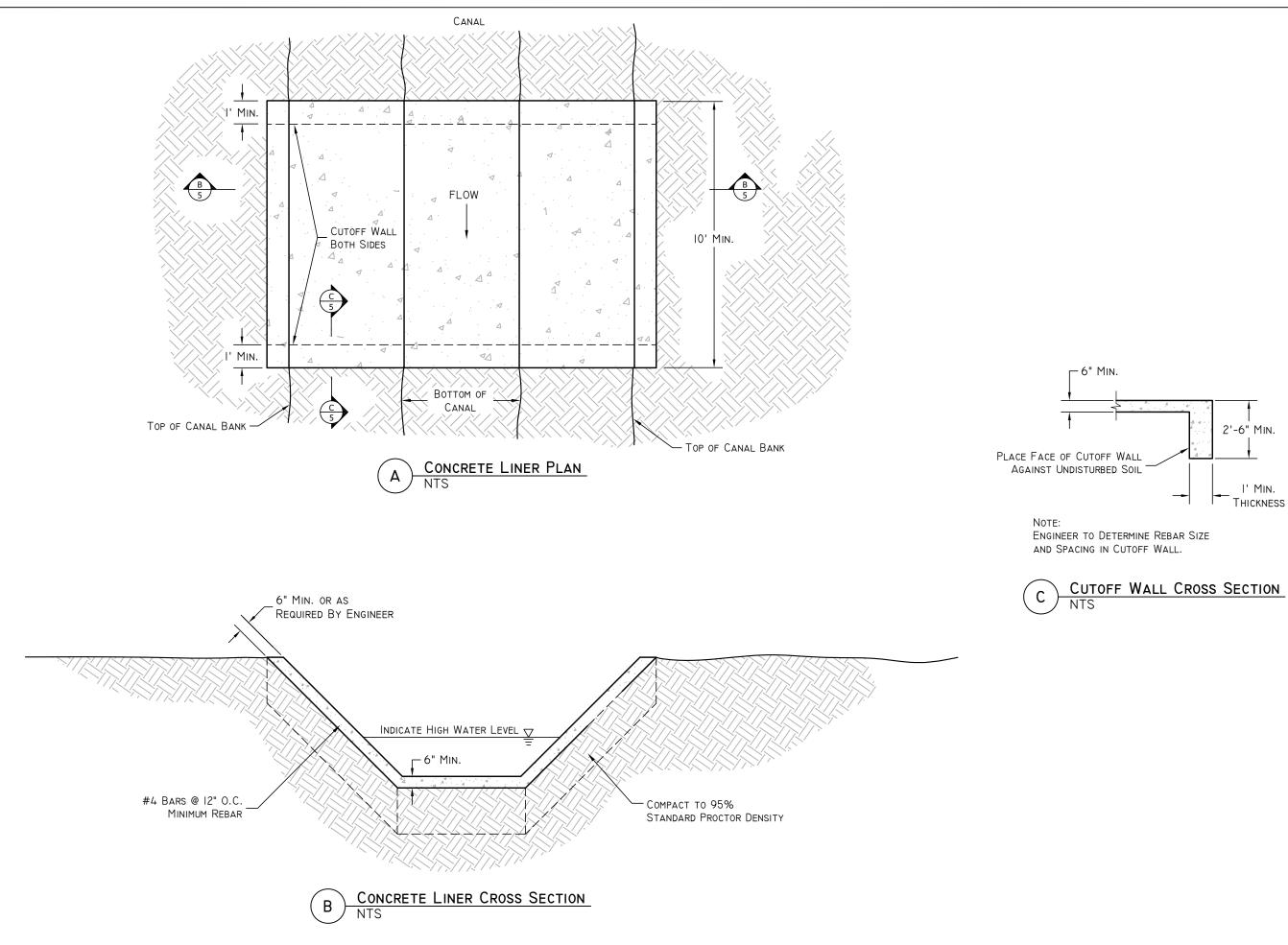


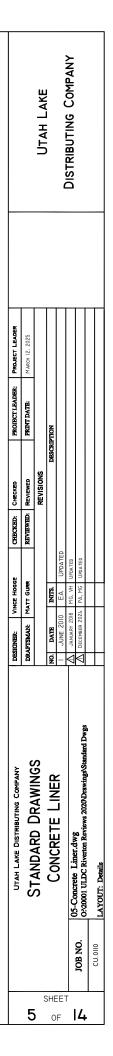
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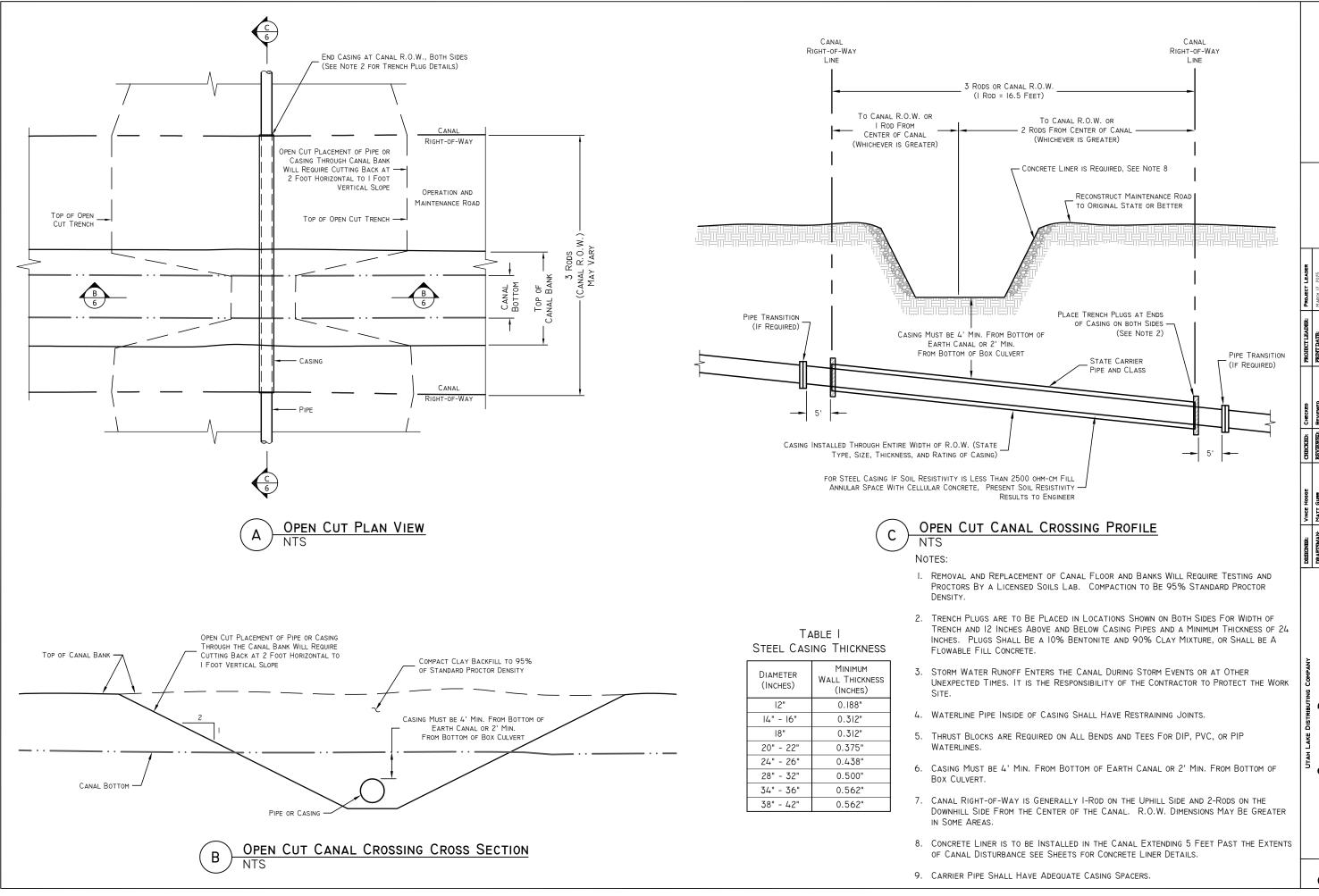
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CLAY MIXTURE,	OR SHALL BE A FLO	WABLE FILL CONCRETE.						B	
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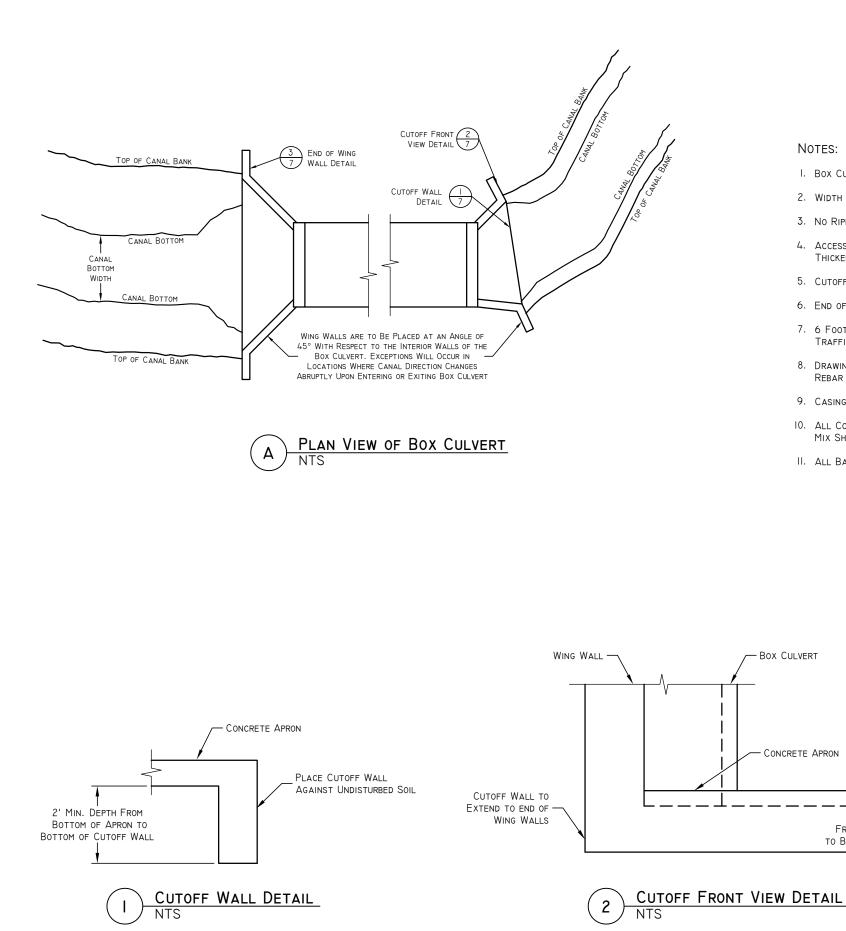








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NOTES:

- 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.

2' MINIMUM DEPTH

FROM BOTTOM OF APRON

TO BOTTOM OF CUTOFF WALL

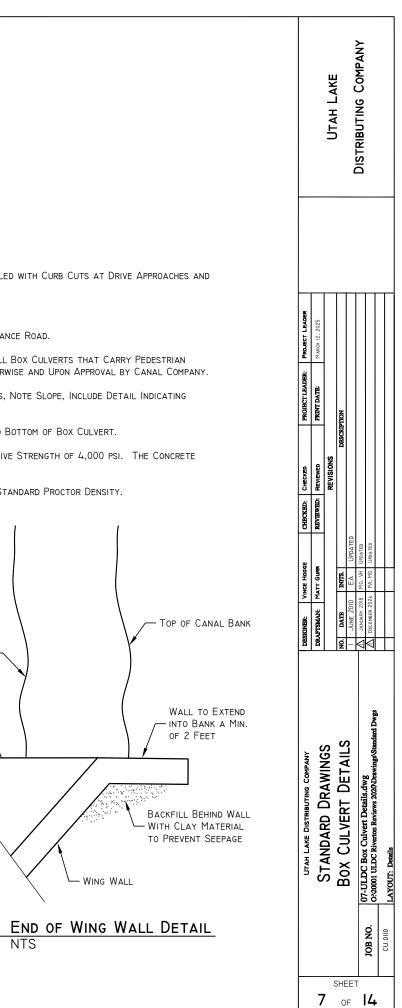
- 4. ACCESS TO CANAL OPERATION AND MAINTENANCE ROAD SHALL BE INSTALLED WITH CURB CUTS AT DRIVE APPROACHES AND THICKENED CONCRETE AT SIDEWALKS.
- 5. CUTOFF WALLS AND APRONS BETWEEN WING WALLS ARE REQUIRED.
- 6. END OF WING WALL SHALL NOT INTERFERE WITH OPERATION AND MAINTENANCE ROAD.
- 7. 6 FOOT CHAIN 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.
- II. ALL BACKFILL MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

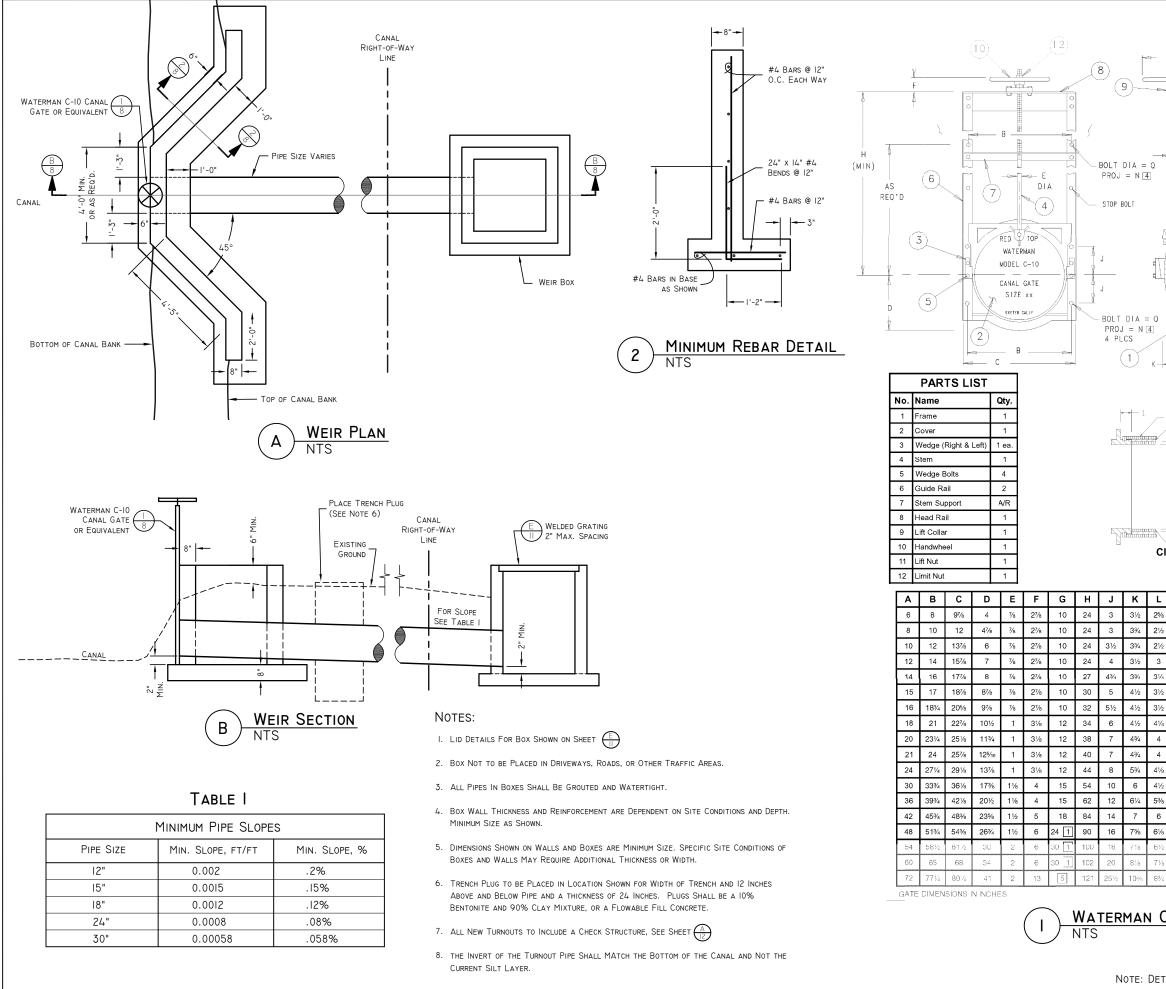
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CONCRETE

APRON

3



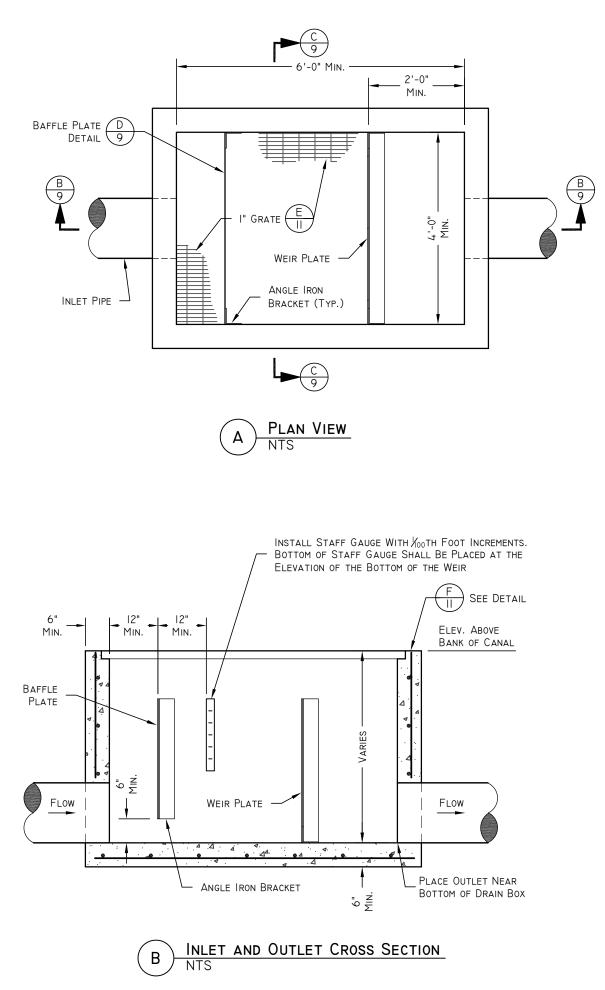


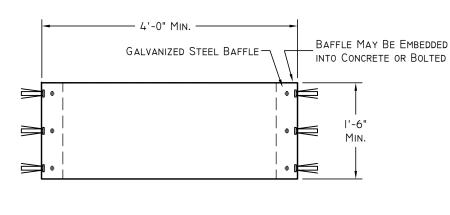
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P	M 2 7 9	N 3½ 3½	P 2 2	2 21/4 21/4	1/2 1/2	- 4	S - 7 ¹³ ⁄16	T - 8	4 Spig V 6.160 8.180	W 6.645 8.645		VINCE HOGGE CHECKED:	MATT GURE REVIEWED:	REVISI	DATE INTTS.	JUNE 2010 EA	JANUARY 2018 MG, VH DECEMBER 2024 PA, MG		
P	M 2 7 9 11	N 3½ 3½ 3½	P	2 21/4 21/4 21/4	1½ 1½ 1½	- 4 31%	S - 7 ¹³ ⁄16 97⁄8	T - 8 10	4 Spic 4 Spic 6.160 8.180 10.220 12.270 -	W 6.645 8.645 10.770		VINCE HOGGE CHECKED:	MATT GURE REVIEWED:	REVISI	DATE INTTS.	JUNE 2010 EA	JANUARY 2018 MG, VH DECEMBER 2024 PA, MG		
P	M 2 7 9 11 13 15 16	N 3½ 3½ 3½ 4 4 4	P	2 21/4 21/4 21/4 21/4 21/4 21/4 21/8	1/2 1/2 1/2 1/2 1/2 1/2	- 4 37⁄8 4 - 4	S - 7 ¹³ /16 97/8 117%	T - 8 10 12 - 15	4 Spic • 6.160 8.180 10.220 12.270 - -	W 6.645 8.645 10.770 12.780 -		VINCE HOGGE CHECKED:	MATT GURE REVIEWED:	REVISI	DATE INTTS.	JUNE 2010 EA	A DECEMBER 2024 PA, MG		
P	M 2 7 9 11 13 15 16 17	N 3½ 3½ 3½ 4 4 4 4 4 4	P	2 21/4 21/4 21/4 21/4 21/4 21/4 21/4	1/2 1/2 1/2 1/2 1/2 1/2 1/2 5%8	- 4 37/8 4 - 4 -	S - 7 ¹³ /16 97/8 117/8 - 147/8 -	T 8 10 12 - 15 -	4 Spig V 6.160 8.180 10.220 12.270 - - - -	W 6.645 8.645 10.770 12.780 - - -		VINCE HOGGE CHECKED:	MATT GURE REVIEWED:	REVISI	DATE INTTS.	JUNE 2010 EA	A DECEMBER 2024 PA, MG		
P	M 2 7 9 11 13 15 16 17 19	N 3½ 3½ 3½ 4 4 4		2 21/4 21/4 21/4 21/4 21/4 21/4 21/8	1/2 1/2 1/2 1/2 1/2 1/2	- 4 37⁄8 4 - 4	S - 7 ¹³ / ₁₆ 97/ ₈ 117/ ₈ -	T - 8 10 12 - 15	4 Spic • 6.160 8.180 10.220 12.270 - -	W 6.645 8.645 10.770 12.780 -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	A DECEMBER 2024 PA, MG		
P	M 2 7 9 11 13 15 16 17	N 31/2 31/2 31/2 4 4 4 4 4 4 2 41/2 41/2		2 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼	1/2 1/2 1/2 1/2 1/2 1/2 1/2 5%	- 4 3% 4 - 4 - 4	S - 976 117% - 147% - 171%	T - 8 10 12 - 15 - 18	4 Spig V 6.160 8.180 10.220 12.270 - - - - -	W 6.645 8.645 10.770 12.780 - - - -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	JANUARY 2018 MG, VH		
P	M 2 7 9 11 13 15 16 17 19 21	N 3½ 3½ 3½ 4 4 4 4 4 4 2 4½ 4½ 4½		2 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼ 2¼	1/2 1/2 1/2 1/2 1/2 1/2 1/2 5%8 5%8	- 4 37/8 4 - 4 - 4 -	S - 7 ¹³ /16 97/8 117/8 - 147/8 - 17 ¹³ /16 -	T - 8 10 12 - 15 - 18 -	4 Spi€ V 6.160 8.180 10.220 12.270 </td <td>W €.645 8.645 10.770 12.780 - - - - -</td> <td></td> <td>DESIGNER: VINCE HOGGE CHECKED:</td> <td>DRAFTSMAN: MATT GUNR REVIEWED:</td> <td></td> <td>NO. DATE INTIS.</td> <td>I JUNE 2010 EA</td> <td> JANUARY 2018 MG, VH</td> <td></td> <td></td>	W €.645 8.645 10.770 12.780 - - - - -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	JANUARY 2018 MG, VH		
P	M 2 7 9 11 13 15 16 17 19 21 22	N 3½ 3½ 3½ 4 4 4 4½ 4½ 4½ 4½		2 21/4 21/4 21/4 21/4 21/4 21/4 21/4 21/	1/2 1/2 1/2 1/2 1/2 1/2 1/2 5% 5% 5%	- 4 31/8 4 - 4 - 4 -	S 7 ¹³ / ₁₆ 97/8 117/8 - 147/8 - 1713/16 - - - - - - - - - - -	T - 8 10 12 - 15 - 18 - -	4 Spig 6.160 8.180 10.220 12.270 </td <td>W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - -</td> <td></td> <td>DESIGNER: VINCE HOGGE CHECKED:</td> <td>DRAFTSMAN: MATT GUNR REVIEWED:</td> <td></td> <td>NO. DATE INTIS.</td> <td>I JUNE 2010 EA</td> <td> JANUARY 2018 MG, VH</td> <td></td> <td></td>	W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	JANUARY 2018 MG, VH		
P	M 2 7 9 11 13 15 16 17 19 21 22 25 31 37	N 3½ 3½ 3½ 4 4 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½ 6 6		2 2 ¹ / ₄ 2 ¹ / ₄	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 5% 5% 5% 5% 5% 5% 5% 5%	- 4 3% 4 - 4 - - - - - -	S - 7 ¹³ / ₁₆ 97⁄ ₈ 117⁄ ₈ - 147⁄ ₈ - 17 ¹³ / ₁₈ - - - - - - - - -	T - 8 10 12 - 15 - 18 - - - - - - -	4 Spig 6.160 8.180 10.220 12.270 </td <td>W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - - -</td> <td></td> <td>DESIGNER: VINCE HOGGE CHECKED:</td> <td>DRAFTSMAN: MATT GUNR REVIEWED:</td> <td></td> <td>NO. DATE INTIS.</td> <td>I JUNE 2010 EA</td> <td> JANUARY 2018 MG, VH</td> <td></td> <td></td>	W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - - -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	JANUARY 2018 MG, VH		
P	M 2 7 9 11 13 15 16 17 19 21 22 25 31 37 43	$\begin{array}{c} \mathbf{N} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 6\frac{1}{6} \\ 6 \\ 6\end{array}$		2 21/4 21/4 21/4 21/4 21/4 21/4 21/4 21/	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	- 4 37% 4 - 4 - 4 - - - - - - -	S - 7 ^{13/16} 97⁄a 117⁄a - 14 ⁷ ⁄a - 17 ¹³ ⁄16 - - - - - - - - - - - - - -	T - 8 10 12 - 15 - 18 - - - - - - - - - -	4 Spig √ 6.160 8.180 10.220 12.270 </td <td>W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - - -</td> <td></td> <td>DESIGNER: VINCE HOGGE CHECKED:</td> <td>DRAFTSMAN: MATT GUNR REVIEWED:</td> <td></td> <td>NO. DATE INTIS.</td> <td>I JUNE 2010 EA</td> <td> JANUARY 2018 MG, VH</td> <td></td> <td></td>	W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - - -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	JANUARY 2018 MG, VH		
P	Image: 2 7 9 11 13 15 16 17 19 21 22 31 37 43 49%	$\begin{array}{c} \mathbf{N} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 6\frac{1}{6} \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ \end{array}$		2 21/4 21/4 21/4 21/4 21/4 21/4 21/4 21/	1/2 1/2 1/2 1/2 1/2 1/2 1/2 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 3%4 3%4 3%4	- 4 37/6 4 - 4 - - - - - - - - - -	S - 7 ¹³ / ₁₆ 97⁄ ₆ 117⁄ ₈ - 147⁄ ₈ - 147⁄ ₈ - - - - - - - - - - - - - - - -	T - 8 10 12 - 15 - 18 - - - - - - - - - - - -	4 Spig V 6.160 8.180 10.220 12.270 </td <td>W 6.845 8.645 10.770 12.780 - - - - - - - - - - - - -</td> <td></td> <td>DESIGNER: VINCE HOGGE CHECKED:</td> <td>DRAFTSMAN: MATT GUNR REVIEWED:</td> <td></td> <td>NO. DATE INTIS.</td> <td>I JUNE 2010 EA</td> <td> JANUARY 2018 MG, VH</td> <td></td> <td></td>	W 6.845 8.645 10.770 12.780 - - - - - - - - - - - - -		DESIGNER: VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GUNR REVIEWED:		NO. DATE INTIS.	I JUNE 2010 EA	JANUARY 2018 MG, VH		
P	M 2 7 9 11 13 15 16 17 19 21 22 25 31 37 43	$\begin{array}{c} \mathbf{N} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 4\frac{1}{2} \\ 6\frac{1}{6} \\ 6 \\ 6\end{array}$		2 21/4 21/4 21/4 21/4 21/4 21/4 21/4 21/	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	- 4 37% 4 - 4 - 4 - - - - - - -	S - 7 ^{13/16} 97⁄a 117⁄a - 14 ⁷ ⁄a - 17 ¹³ ⁄16 - - - - - - - - - - - - - -	T - 8 10 12 - 15 - 18 - - - - - - - - - -	4 Spig √ 6.160 8.180 10.220 12.270 </td <td>W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - - -</td> <td></td> <td>VINCE HOGGE CHECKED:</td> <td>DRAFTSMAN: MATT GURR REVIEWED:</td> <td></td> <td>DATE INTTS.</td> <td>I JUNE 2010 EA</td> <td>A DECEMBER 2024 PA, MG</td> <td></td> <td></td>	W 6.645 8.645 10.770 12.780 - - - - - - - - - - - - - - - - - - -		VINCE HOGGE CHECKED:	DRAFTSMAN: MATT GURR REVIEWED:		DATE INTTS.	I JUNE 2010 EA	A DECEMBER 2024 PA, MG		

NOTE: DETAIL | INFORMATION TAKEN FROM WATERMAN USA WEBSITE.

SHEET

8 OF 14





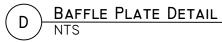
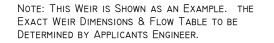
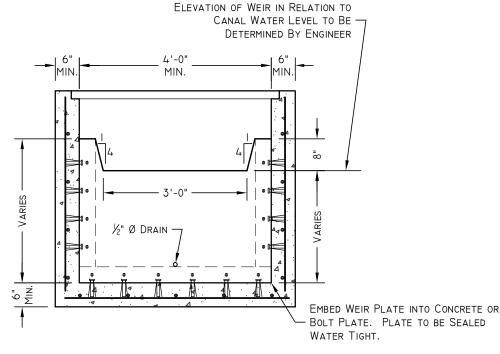


TABLE I Q=3.367 LH^{3/2}@ L=3

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





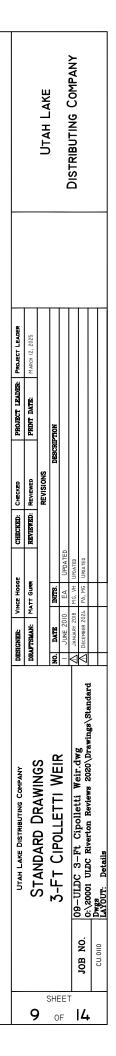
WEIR SECTION

NTS

С

NOTES:

- I. IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT 12 INCHES O.C. E.W. MINIMUM.
- 2. DETAILS FOR CAST IN PLACE BOX SEE
- 3. 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.



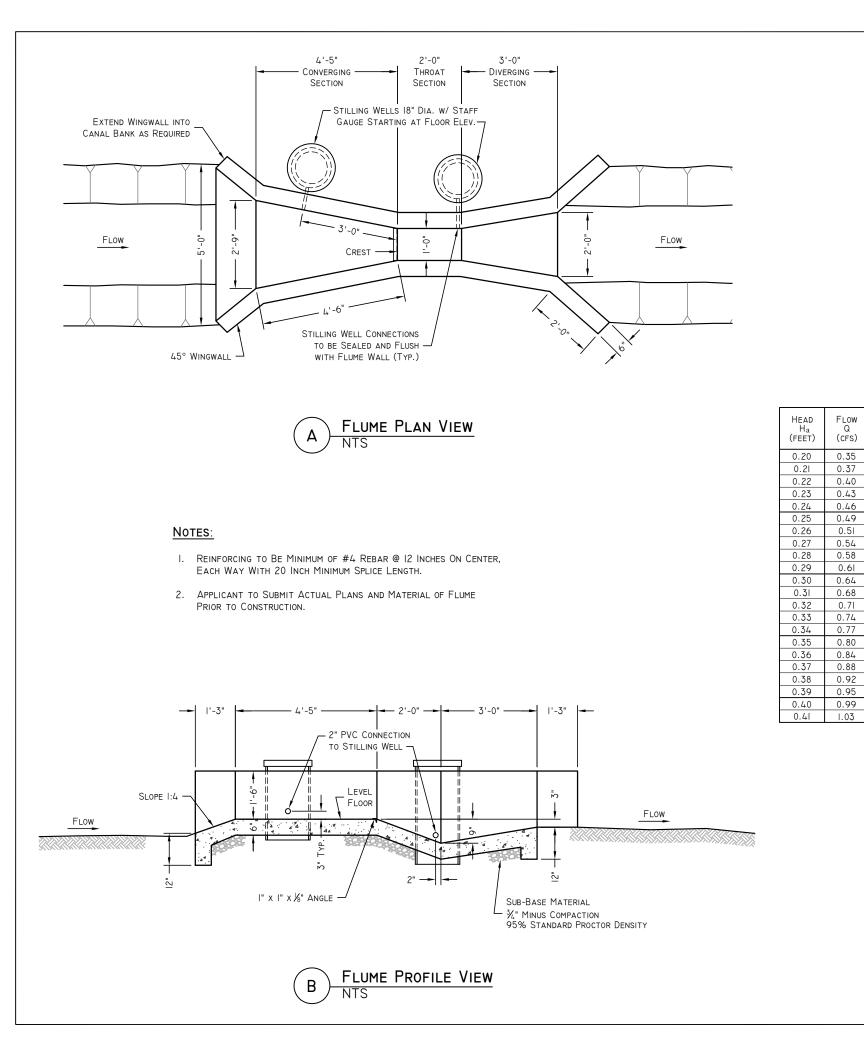


TABLE I

HEAD-FLOW RELATIONSHIP FOR CONCRETE FLUME

Head

H_a (feet)

0.42

0.43

0.44

0.45

0.46

0.47

0.48

0.49

0.50

0.51

0.52

0.53

0.54

0.55

0.56

0.57

0.58

0.59

0.60

0.61

0.62

0.63

FLOW

(CFS)

1.07

1.11

1.15

1.19

1.23

1.27

1.31

1.35

1.39

1.44

1.48

1.52

1.57

1.62

1.66

1.70

1.75

1.80

1.84

1.88

1.93

1.98

HEAD Ha (feet)	FLOW Q (CFS)	HEAD Ha (feet)
0.64	2.03	0.86
0.65	2.08	0.87
0.66	2.13	0.88
0.67	2.18	0.89
0.68	2.23	0.90
0.69	2.28	0.91
0.70	2.33	0.92
0.71	2.38	0.93
0.72	2.43	0.94
0.73	2.48	0.95
0.74	2.53	0.96
0.75	2.58	0.97
0.76	2.63	0.98
0.77	2.68	0.99
0.78	2.74	1.00
0.79	2.80	1.01
0.80	2.85	1.02
0.81	2.90	1.03
0.82	2.96	1.04
0.83	3.02	1.05
0.80	3.07	1.06
0.85	3.12	1.07

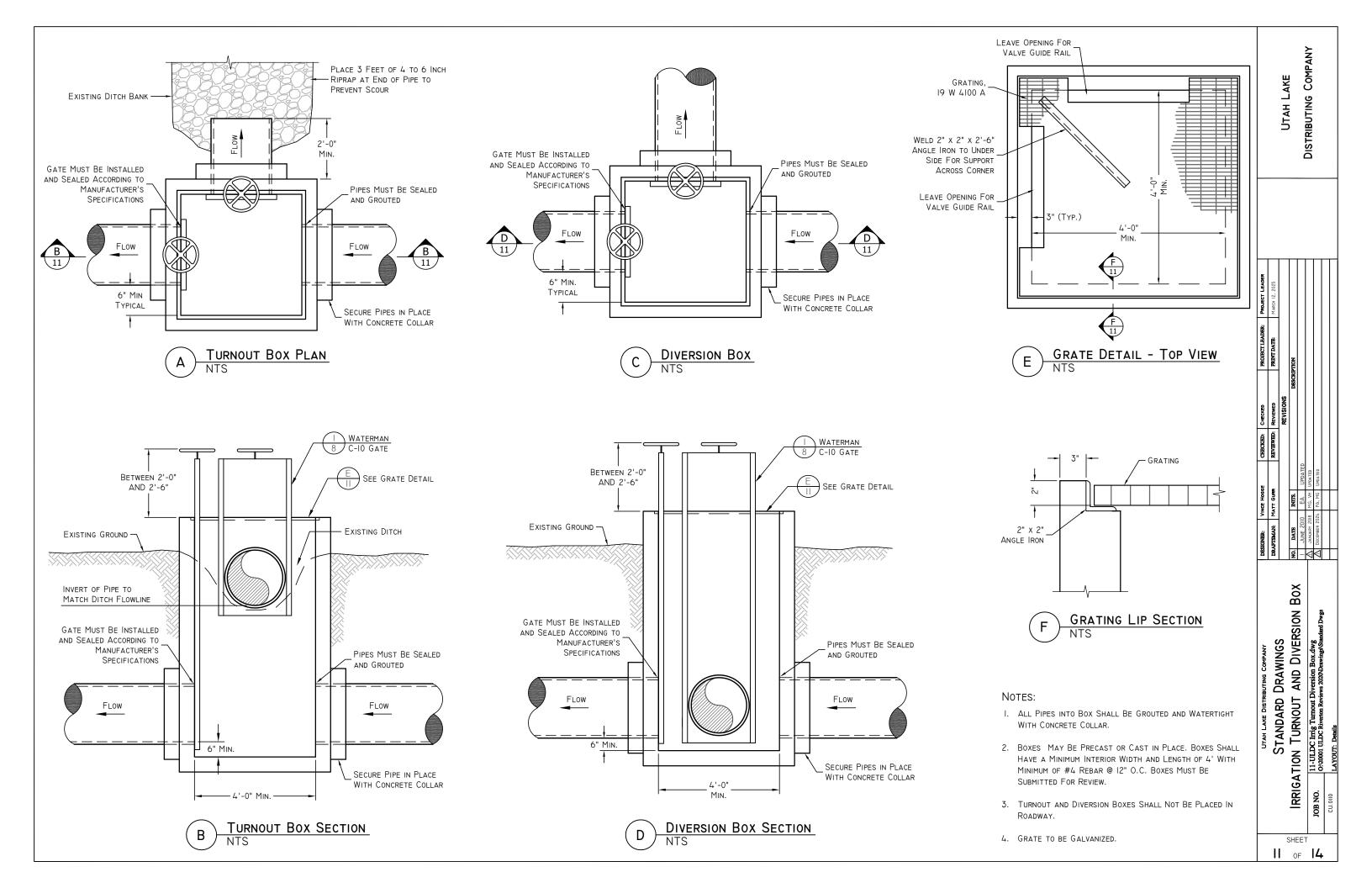
NOTE: THIS FLUME IS SHOWN AS AN EXAMPLE. THE EXACT FLUME DIMENSIONS & FLOW TABLE TO BE DETERMINED BY APPLICANTS ENGINEER.

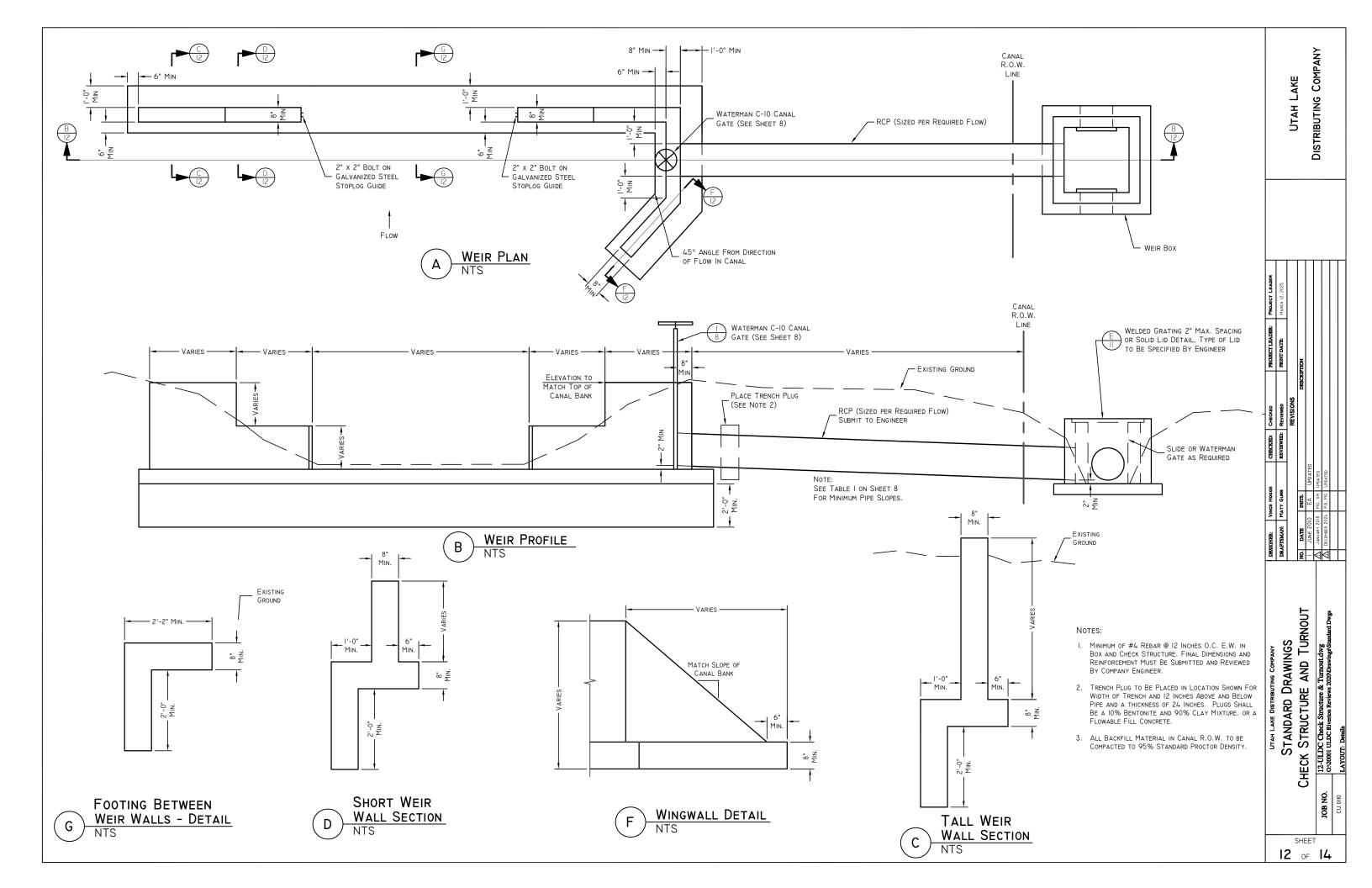
		UTAH LAKE DISTRIBUTING COMPANY	DESIGNER:	VINCE HOGGE		CHBCKED: CHECKED	CHECKED	PROJECT LEADER: PROJECT LEADER	PROJECT LEADER		
10			DRAFTSMAN:	MATT GURR		REVIEWED: REVIEWED	REVIEWED	PRINT DATE:	MARCH 12, 2025		
							REVISIONS				AKF
SHE O			NO. DATE	SLIN			DESCRIPTION	NOIL			
EE'			I JUNE 2010	IO EA	UPDATED						
T I		10-III DC 1-Ht Darshall Flinme duve	A JANUARY	2018 MG, VH	H UPDATED					DISTRIBUTING COMPANY	IG COMPANY
4	JOB NO.	0.20001 ULDC Riverton Reviews 2020/Drawinse/Standard Dwgs	▲ DECEMBER	R 2024 PA, MG	G UPDATED						
, ,											
	CU.0110	LAYOUT: Details									

FLOW Ω (CFS) 3.18 3.24 3.29 3.35 3.41 3.46 3.52 3.58 3.64 3.70 3.76 3.82 3.88 3.94 4.00 4.06 4.12 4.18 4.25 4.31 4.37 4.43

HEAD Ha (FEET)	FLOW Q (CFS)
1.08	4.50
1.09	4.56
1.10	4.62
1.11	4.68
1.12	4.75
1.13	4.82
1.14	4.88
1.15	4.94
1.16	5.01
1.17	5.08
1.18	5.15
1.19	5.21
1.20	5.28
1.21	5.34
1.22	5.41
1.23	5.48
1.24	5.55
1.25	5.62
1.26	5.69
1.27	5.76
1.28	5.82
1.29	5.89

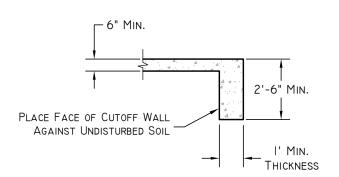
HEAD Ha (feet)	FLOW Q (CFS)
1.30	5.96
1.31	6.03
1.32	6.10
1.33	6.18
1.34	6.25
1.35	6.32
1.36	6.39
1.37	6.46
1.38	6.53
1.39	6.60
1.40	6.68
1.41	6.75
1.42	6.82
1.43	6.89
1.44	6.97
1.45	7.04
1.46	7.12
1.47	7.19
1.48	7.26
1.49	7.34
1.50	7.41





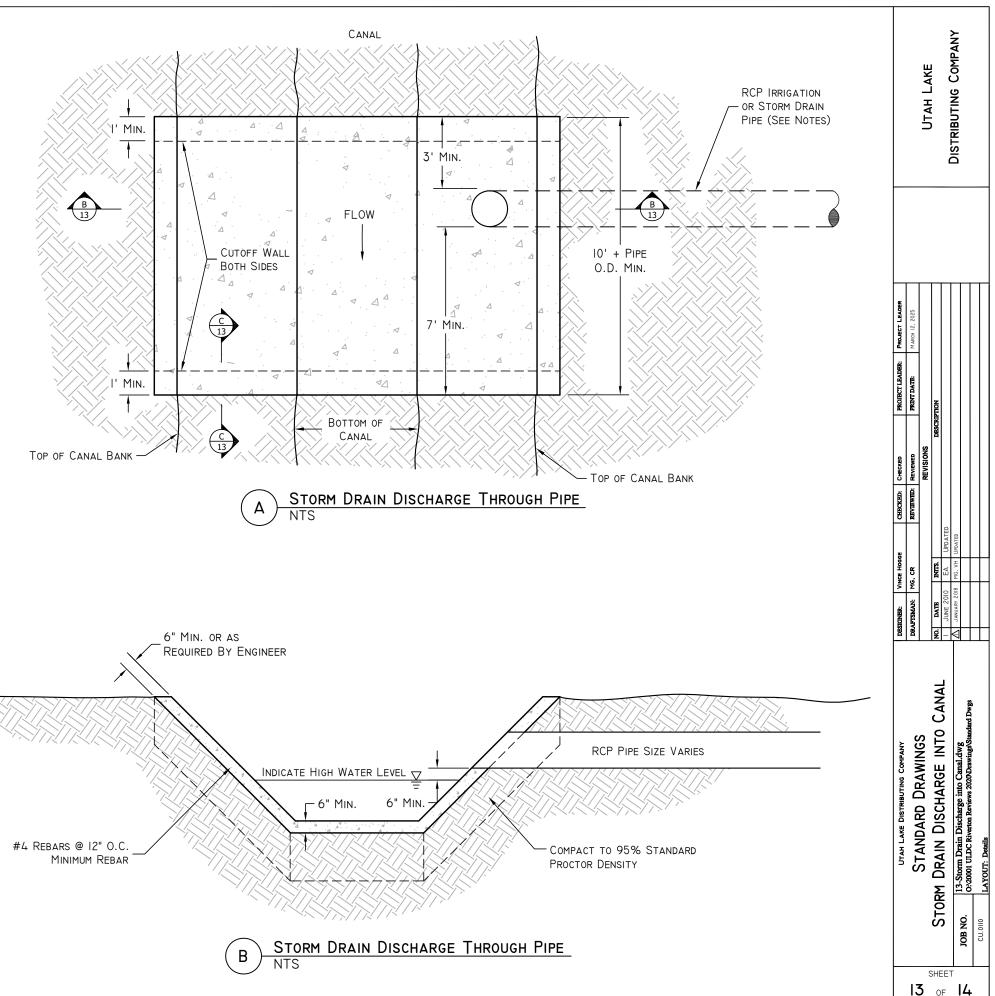
NOTES:

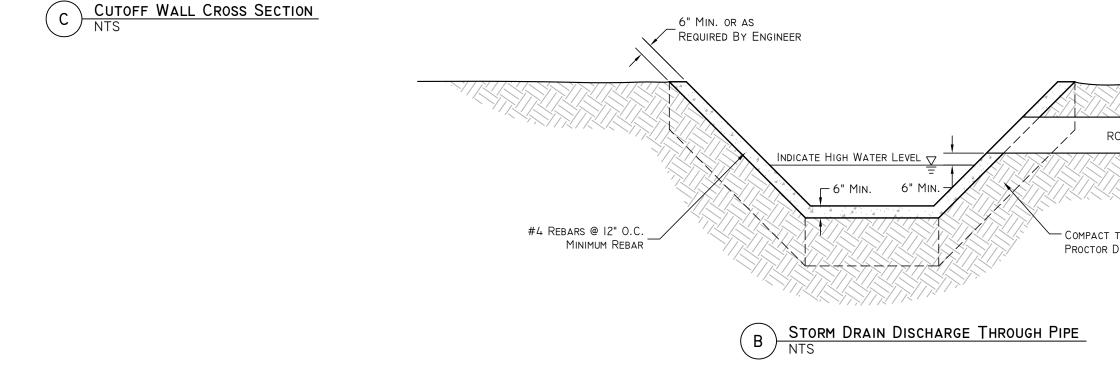
- I. ALL PLANNED STORM DRAIN DISCHARGES MUST BE PRE-APPROVED AND HAVE SIGNED AGREEMENT WITH ALL PARTIES (INCLUDING SALT LAKE COUNTY FLOOD CONTROL IF APPLICABLE).
- 2. PRE-TREATMENT TO STORM DRAIN PIPE DISCHARGE IS REQUIRED. TREATMENT AND DISCHARGE RATE TO BE DETERMINED BY APPLICANTS ENGINEER AND SALT LAKE COUNTY FLOOD CONTROL.
- 3. ALL STORM DRAIN PIPES SHALL BE RCP.
- 4. DRAWING IS FOR PIPE ENTERING CANAL AT 90°, OTHER DIMENSIONS MAY APPLY FOR VARYING ANGLES.
- 5. THE LENGTH OF CONCRETE IN CHANNEL IS 10 FEET PLUS THE OUTER DIAMETER OF THE DISCHARGE PIPE.
- 6. PIPE TO BE CUT FLUSH WITH CONCRETE.

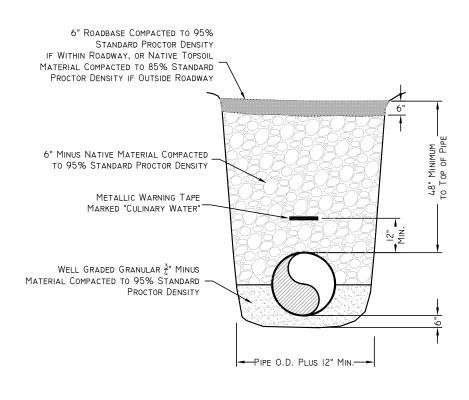


NOTE:

ENGINEER TO DETERMINE REBAR SIZE AND SPACING IN CUTOFF WALL.









	UTAH LAKE DISTRIBUTING COMPANY	DESIGNER:		VINCE HOGGE	CHBCKED: CHECKED	CHECKED	PROJECT LEADER: PROJECT LEADER	PROJECT LEADER		
		DRAFTSMAN:	-	MATT GURR	REVIEWED:	REVIEWED: REVIEWED	PRINT DATE:	M ARCH 12, 2025		
						REVISIONS				AKE
		NO. DATE		INITS.		DESCRIPTION	NOLLA			
		I JUNE 2010		EA UPDATED						(
	14.Treach Detail duo	-A JANUARY 201	RY 2018 MG	MG, VH UPDATED					DISTRIBUTING COMPANY	COMPAN
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CU.0110	LAYOUT: Trench Detail									