Spanish Fork South Irrigation Company

Typical Drawings

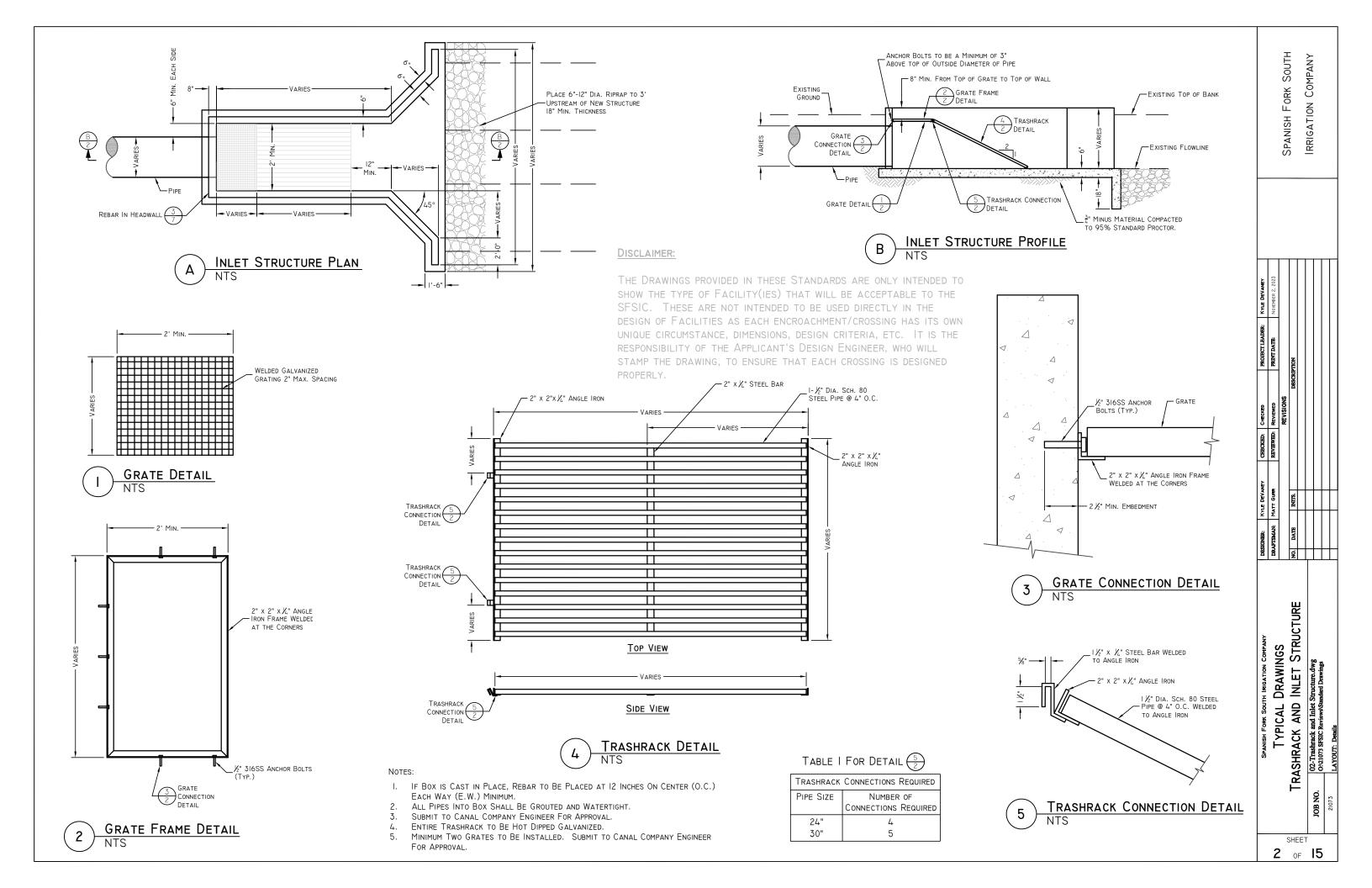
Sheet Index

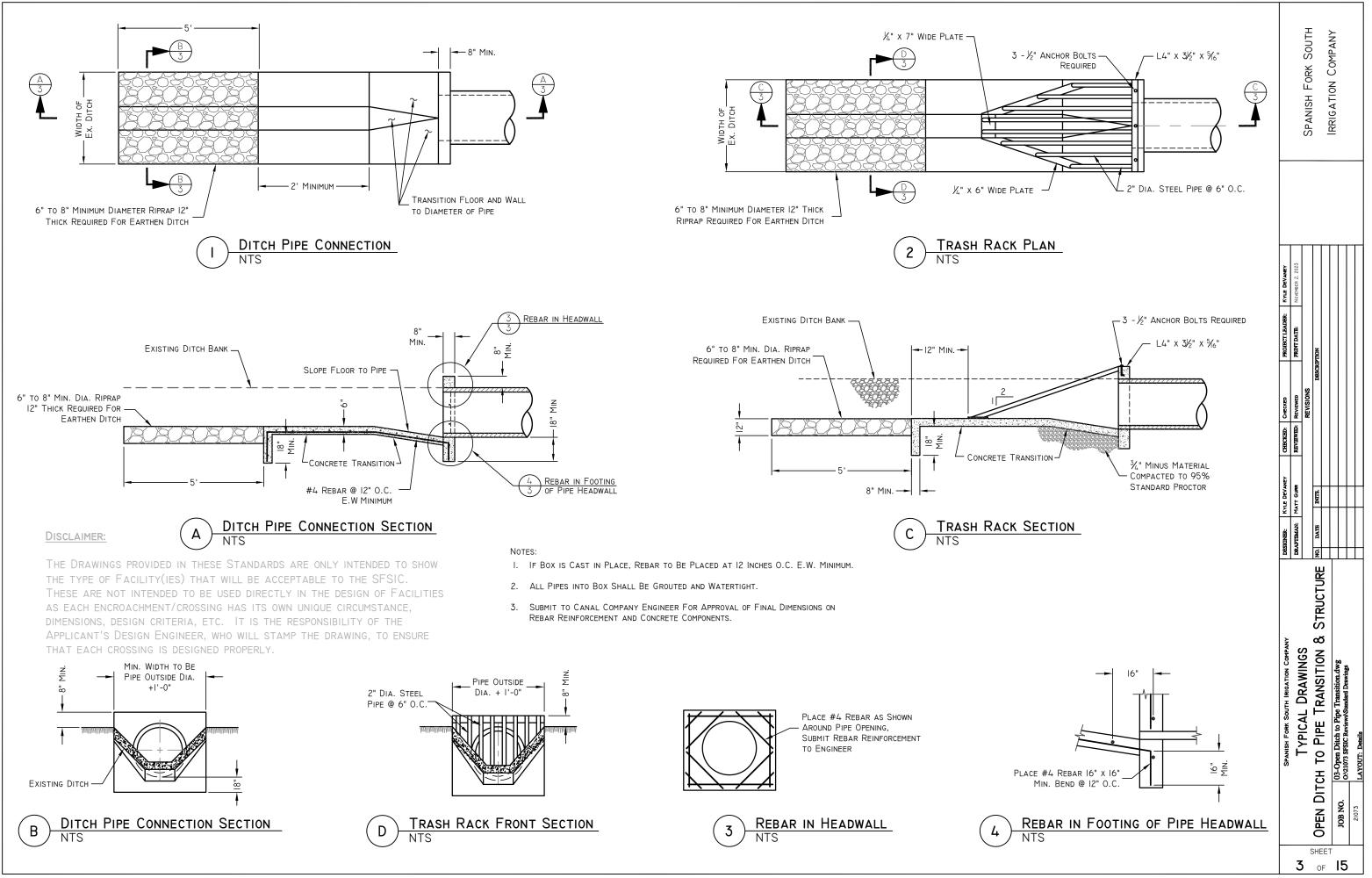
- I COVER SHEET
- 2 TRASHRACK AND INLET STRUCTURE
- 3 OPEN DITCH TO PIPE TRANSITION AND STRUCTURE
- 4 WEIR TURNOUT GATE
- 5 3-FOOT CIPOLLETTI WEIR
- 6 I-FOOT PARSHALL FLUME
- 7 90° V-Notch Weir
- 8 IRRIGATION TURNOUT-DIVERSION BOX
- 9 DIRECTIONAL DRILLING PIPE BEDDING DETAILS
- 10 BOX CULVERT DETAILS
- II OPEN CUT DETAILS
- 12 CONCRETE LINER
- 13 LARGE DIAMETER PIPE DETAILS
- 14 TURNOUT DETAILS
- 15 FENCE DETAILS

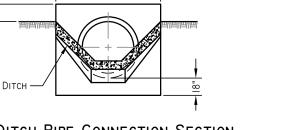
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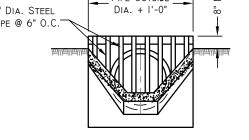
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT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

		SPANISH FORK SOUTH IRIGATION COMPANY	DESIGNER:	KYLE DEVANEY CHBCKED: CHECKED	CHBCKED:	Снескер	PROJECT LEADER: KYLE DEVANEY	KYLE DEVANEY		
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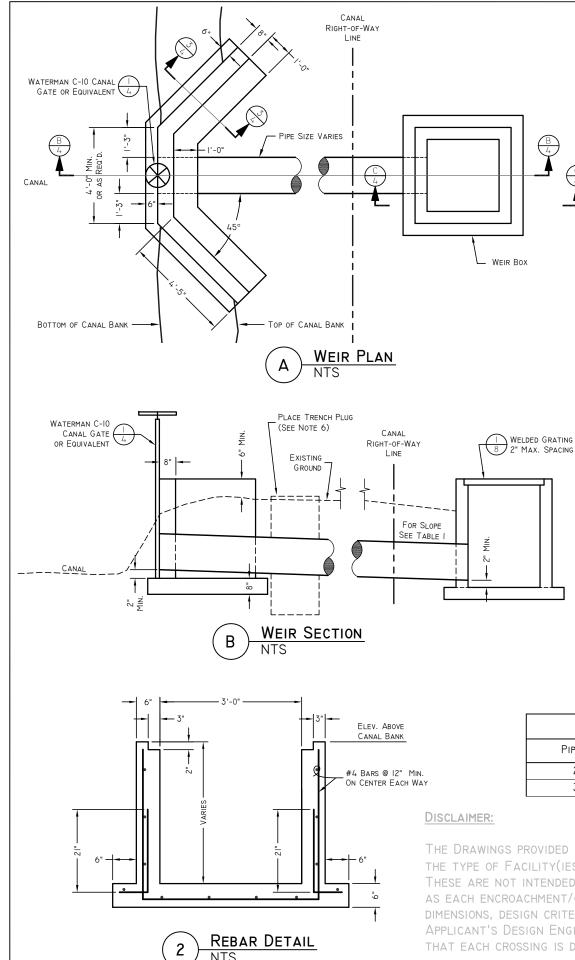


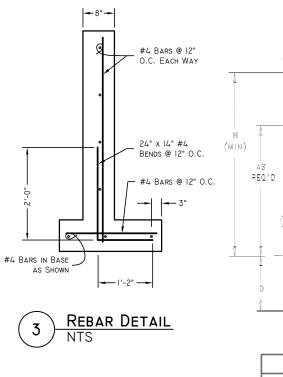




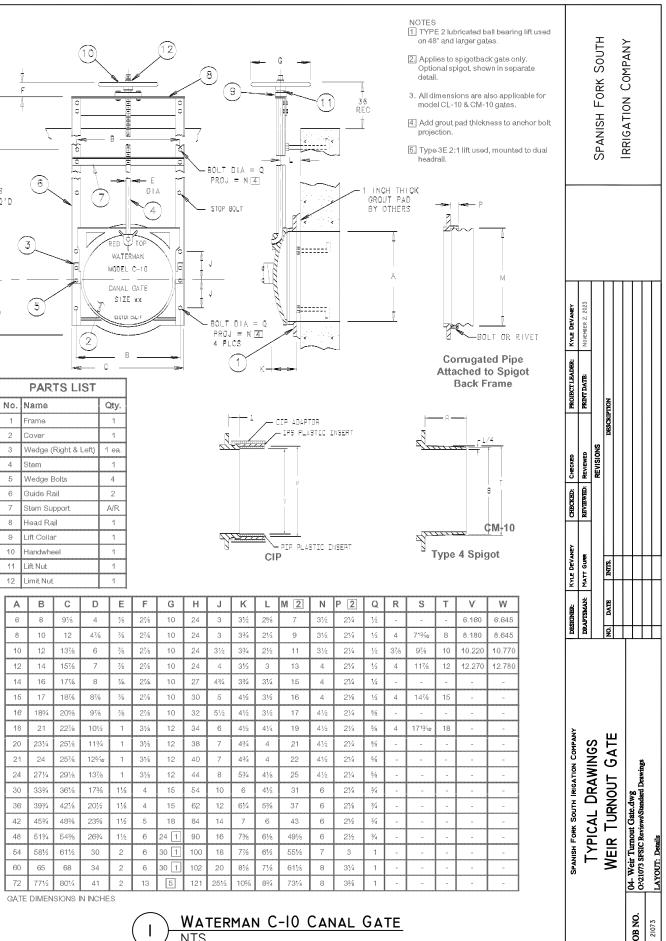














NOTES:

- I. LID DETAILS FOR BOX SHOWN ON SHEET $\begin{pmatrix} 1\\8\\8 \end{pmatrix}$ or $\begin{pmatrix} 2\\8\\8 \end{pmatrix}$.
- 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

1	MINIMUM PIPE SLOPE	s
Pipe Size	MIN. SLOPE, FT/FT	Min. Slope, %
24"	0.0008	.08%
30"	0.00058	.058%

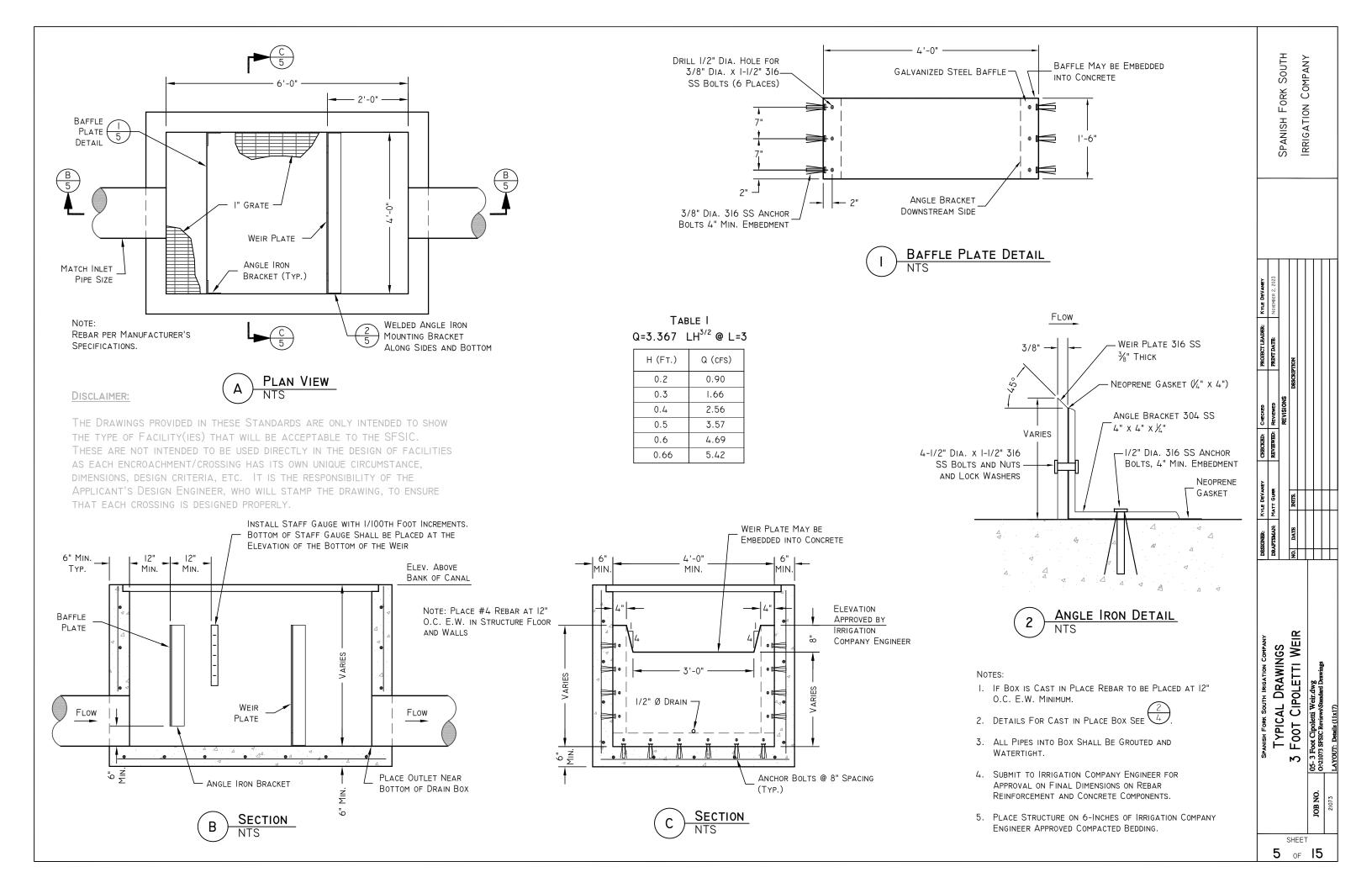
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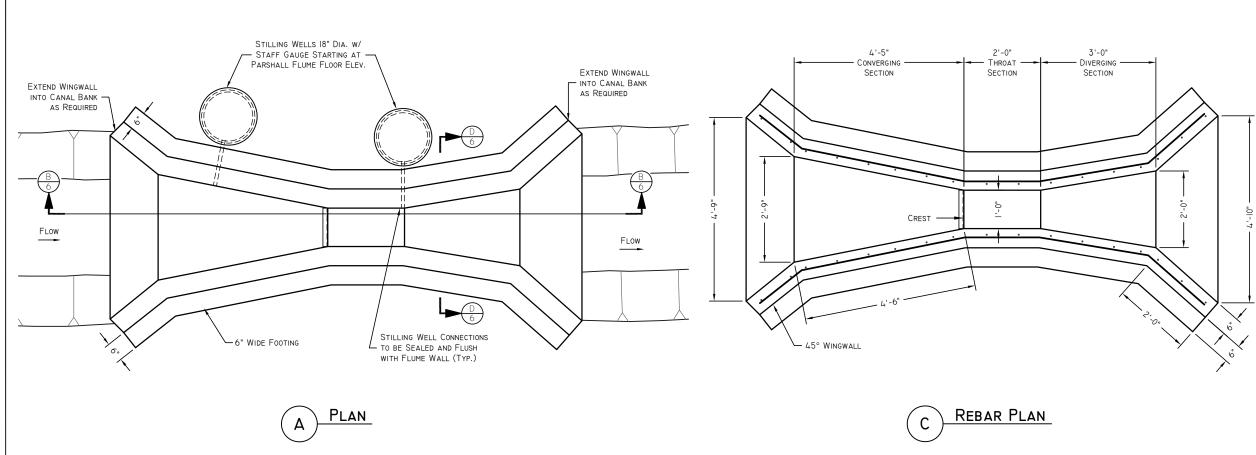
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SHEET

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4





DISCLAIMER:

- 1'-3" -

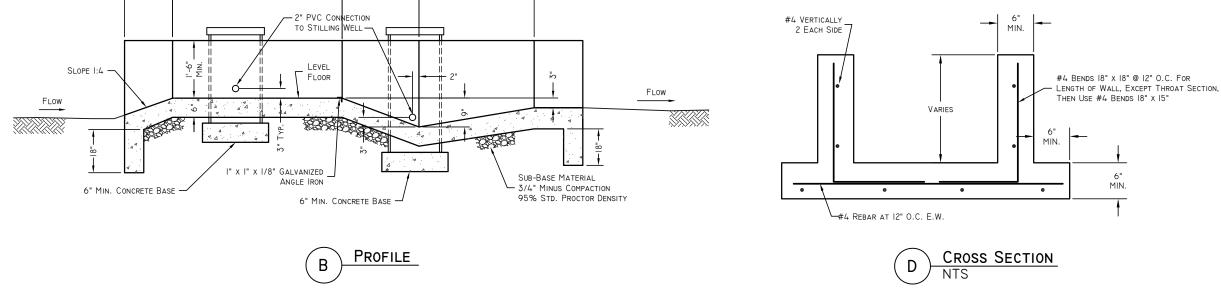
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- 2'-0" ·

- 3'-0"

NOTES:

- I. 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.





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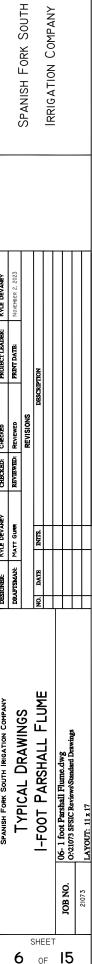
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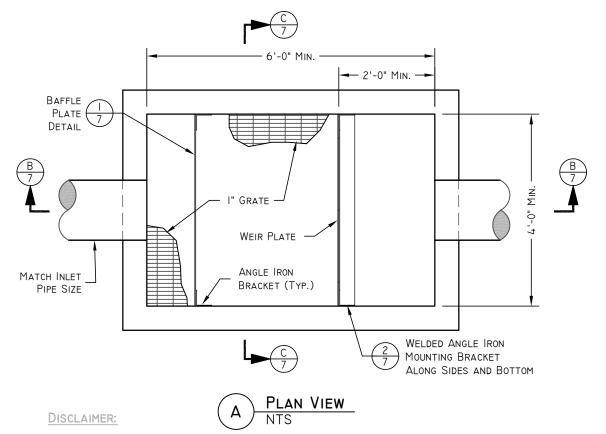
Flow Q (cfs)

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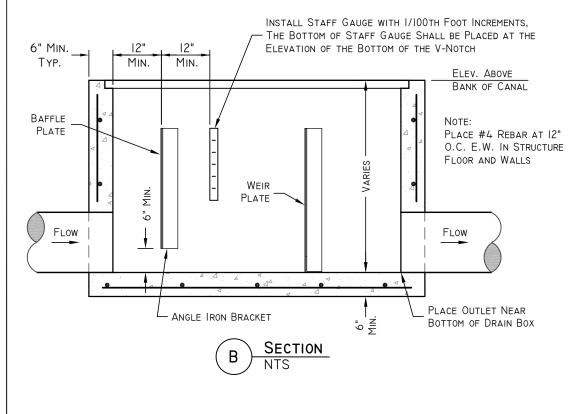
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HEAD Ha	FLOW Q		
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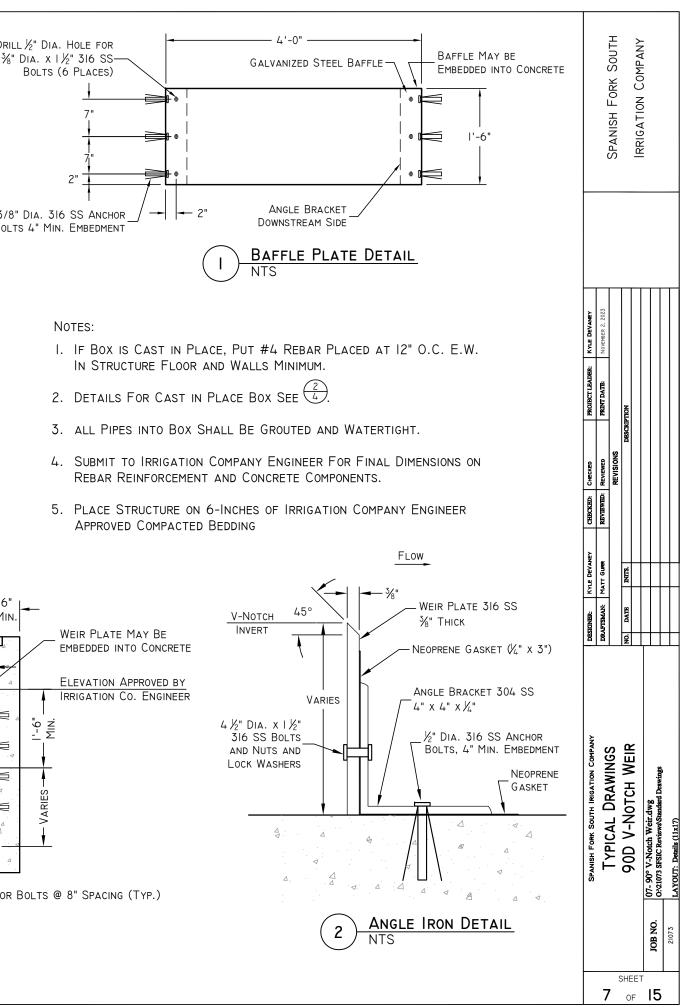


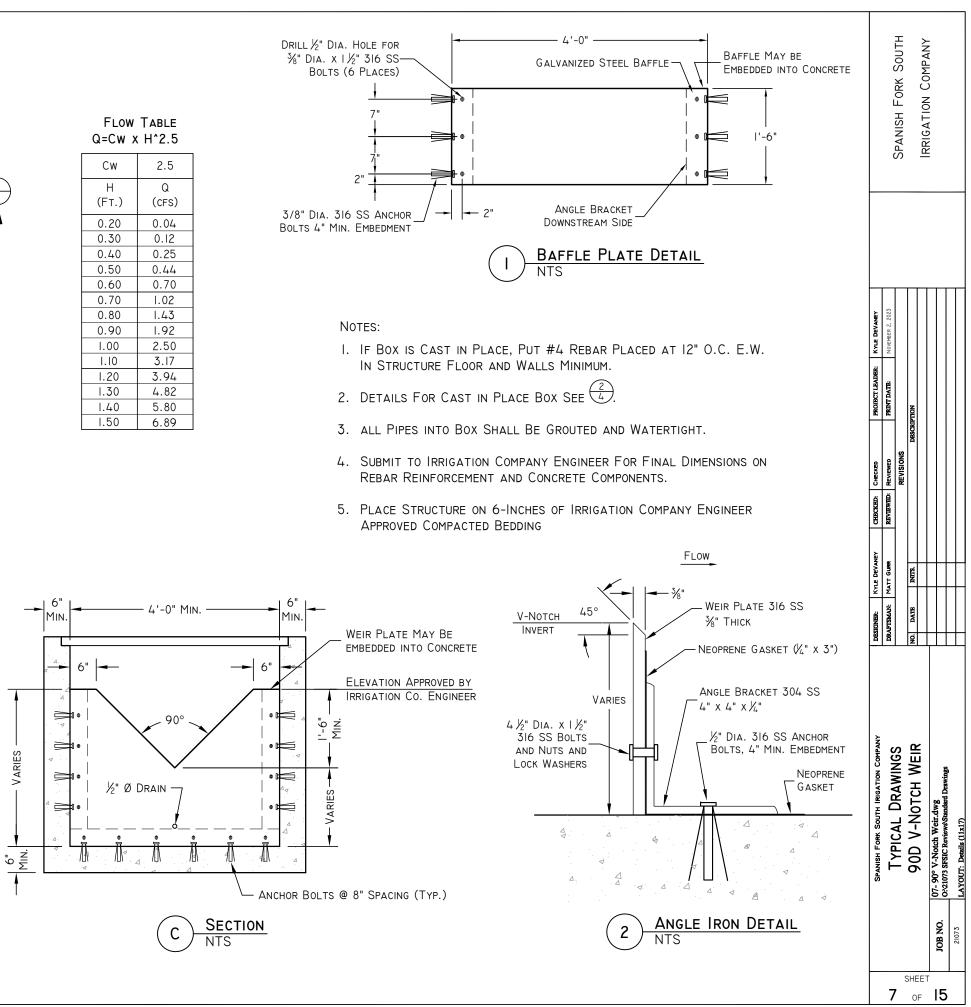


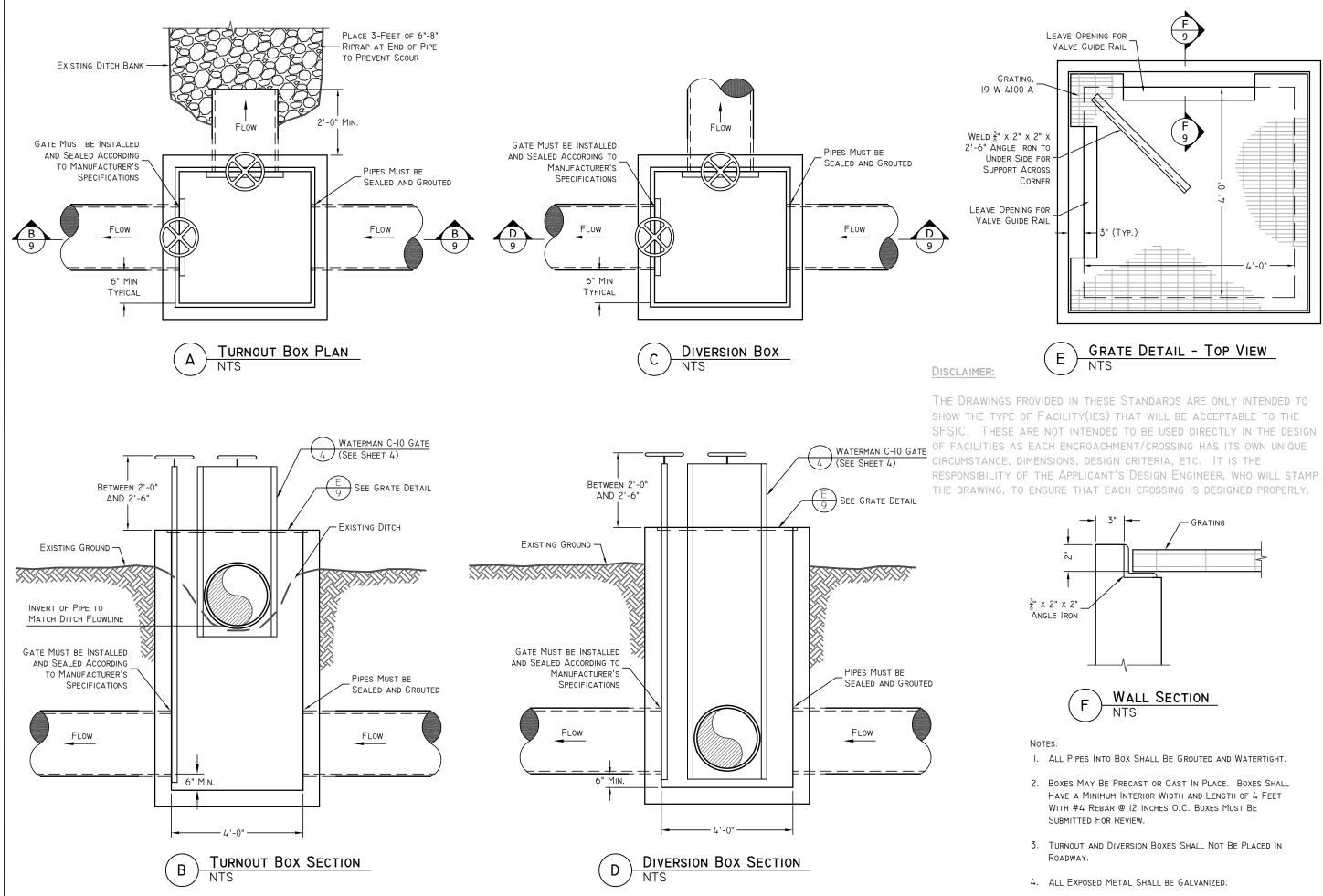
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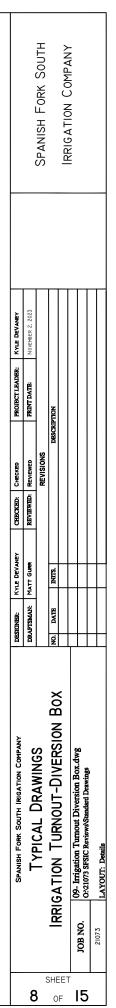


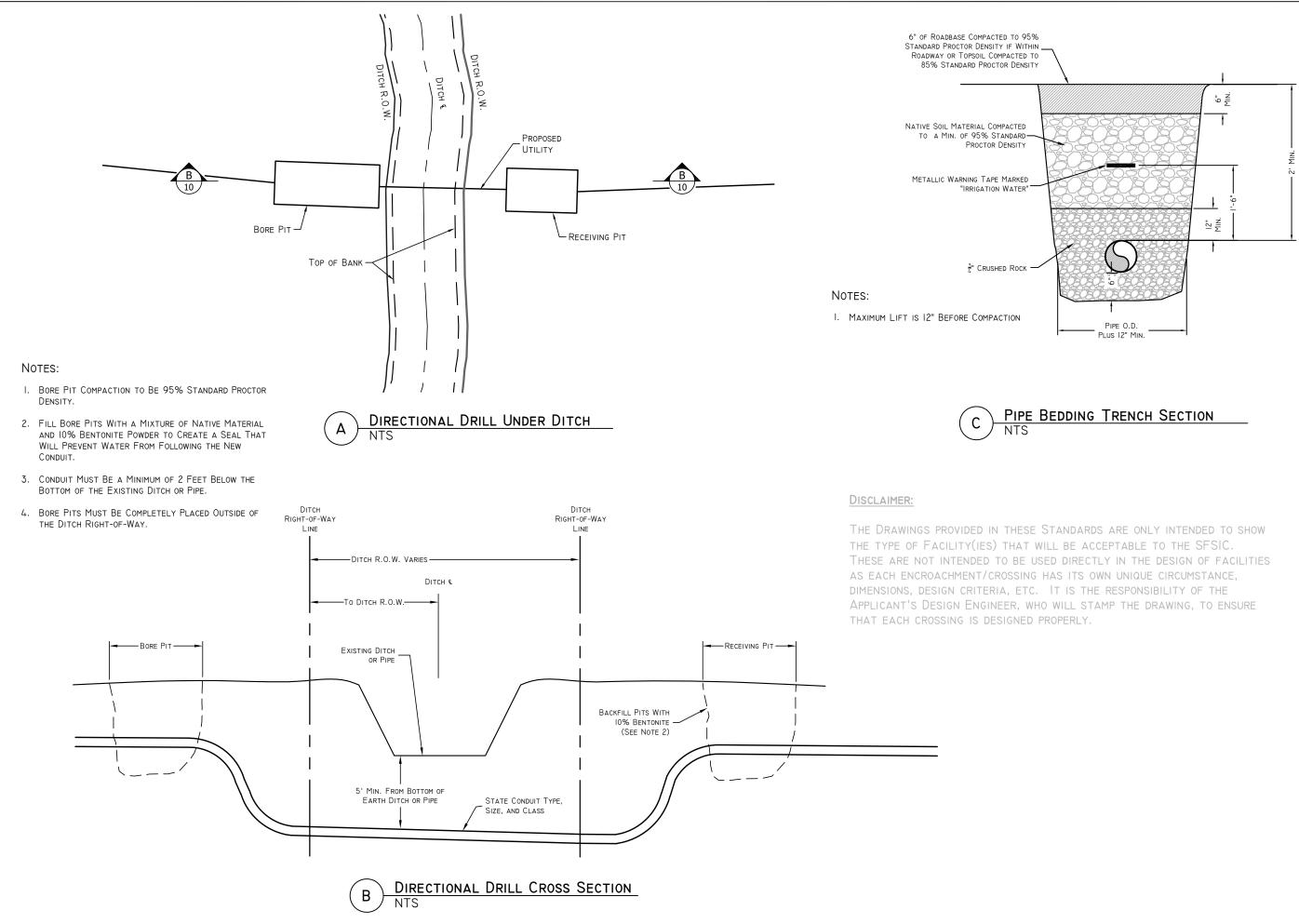
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0.40	0.25
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0.80	1.43
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1.30	4.82
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1.50	6.89



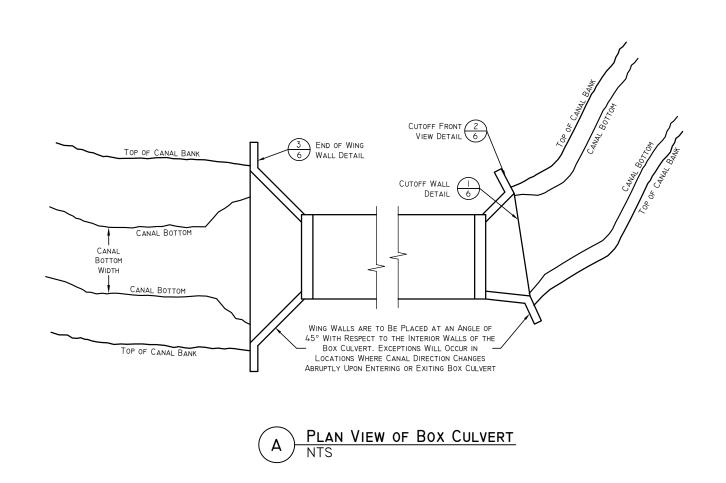








SPANISH FORK SOUTH IRIGATION COMPANY		DESIGNER:	KYLE DEVANEY	CHECKED:	CHBCKED: CHECKED	PROJECT LEADER: KYLE DEVANEY	Kyle Devaney		
TYPICAL DRAWN		DRAFTSMAN:	MATT GURR	REVIEWED:	REVIEWED: REVIEWED	PRINT DATE:	November 2, 2023		
I TRICAL URAWINGS					REVISIONS			SPANISH	Spanish Fork South
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11. Directional Drilling dwg								IRRIGATI	RRIGATION COMPANY
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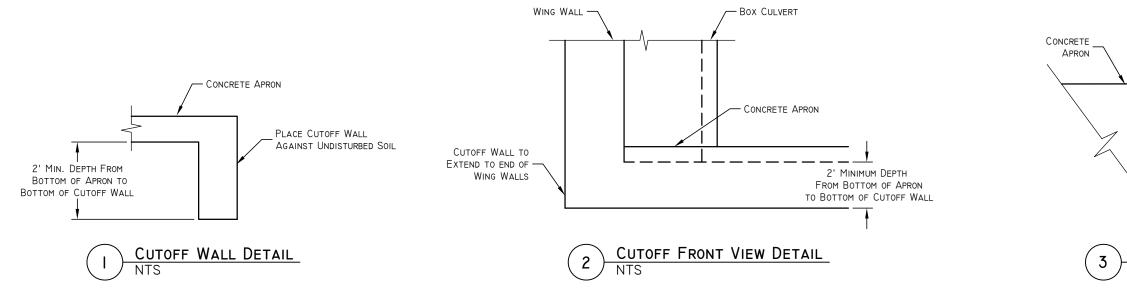
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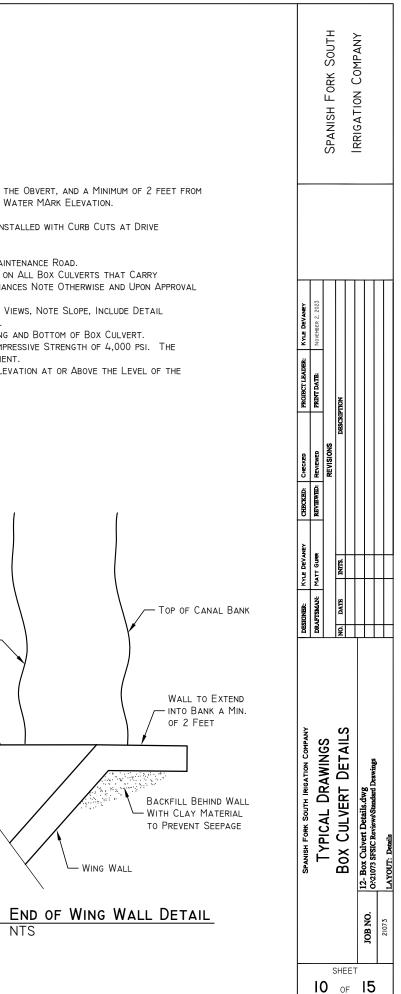
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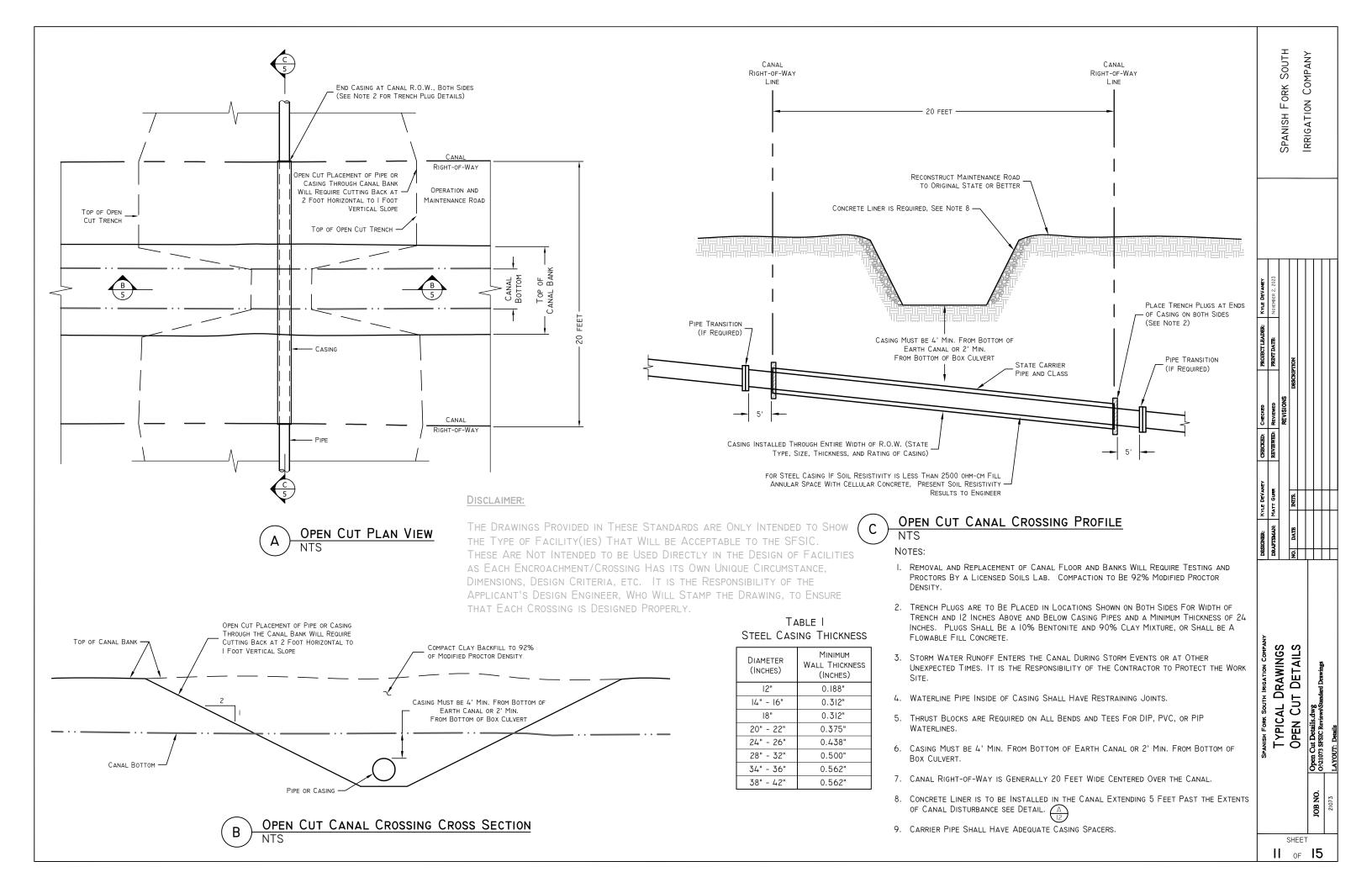
NOTES:

- 1. BOX CULVERT TO HAVE A MINIMUM OF 4 FEET FROM THE INVERT TO THE OBVERT, AND A MINIMUM OF 2 FEET FROM THE HIGH WATER MARK TO THE OBVERT. PLEASE SPECIFY THE HIGH WATER MARK ELEVATION.
- 2. WIDTH OF BOX CULVERT SHALL BE A MINIMUM OF 6 FEET.
- 3. Access to Canal Operation and Maintenance Road Shall be Installed with Curb Cuts at Drive Approaches and Thickened Concrete at Sidewalks.
- 4. CUTOFF WALLS AND APRONS BETWEEN WING WALLS ARE REQUIRED.
- 5. END OF WING WALL SHALL NOT INTERFERE WITH OPERATION AND MAINTENANCE ROAD.
- 6. 6 FOOT CHAIN LINK FENCE OR 2 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.
- 7. DRAWINGS SUBMITTED FOR REVIEW ARE TO SHOW PLAN AND PROFILE VIEWS, NOTE SLOPE, INCLUDE DETAIL INDICATING REBAR SIZE AND SPACING, AND STATE TRAFFIC LOADING.
- CASINGS MUST HAVE A MINIMUM OF 2 FEET BETWEEN TOP OF CASING AND BOTTOM OF BOX CULVERT.
 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. 10. The Top of the Wingwall on the Outer end Shall be at an Elevation at or Above the Level of the Ground.



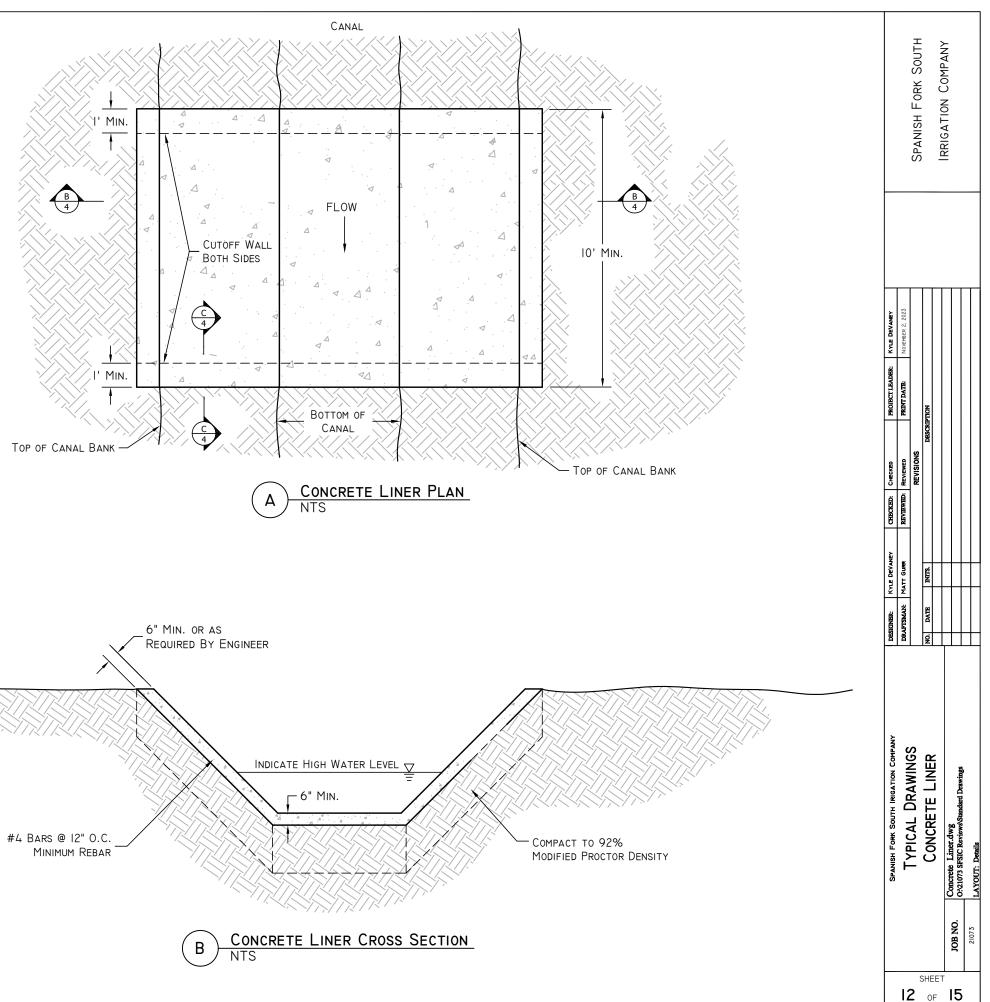


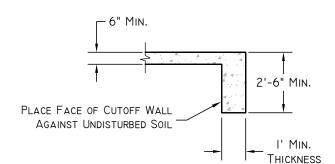




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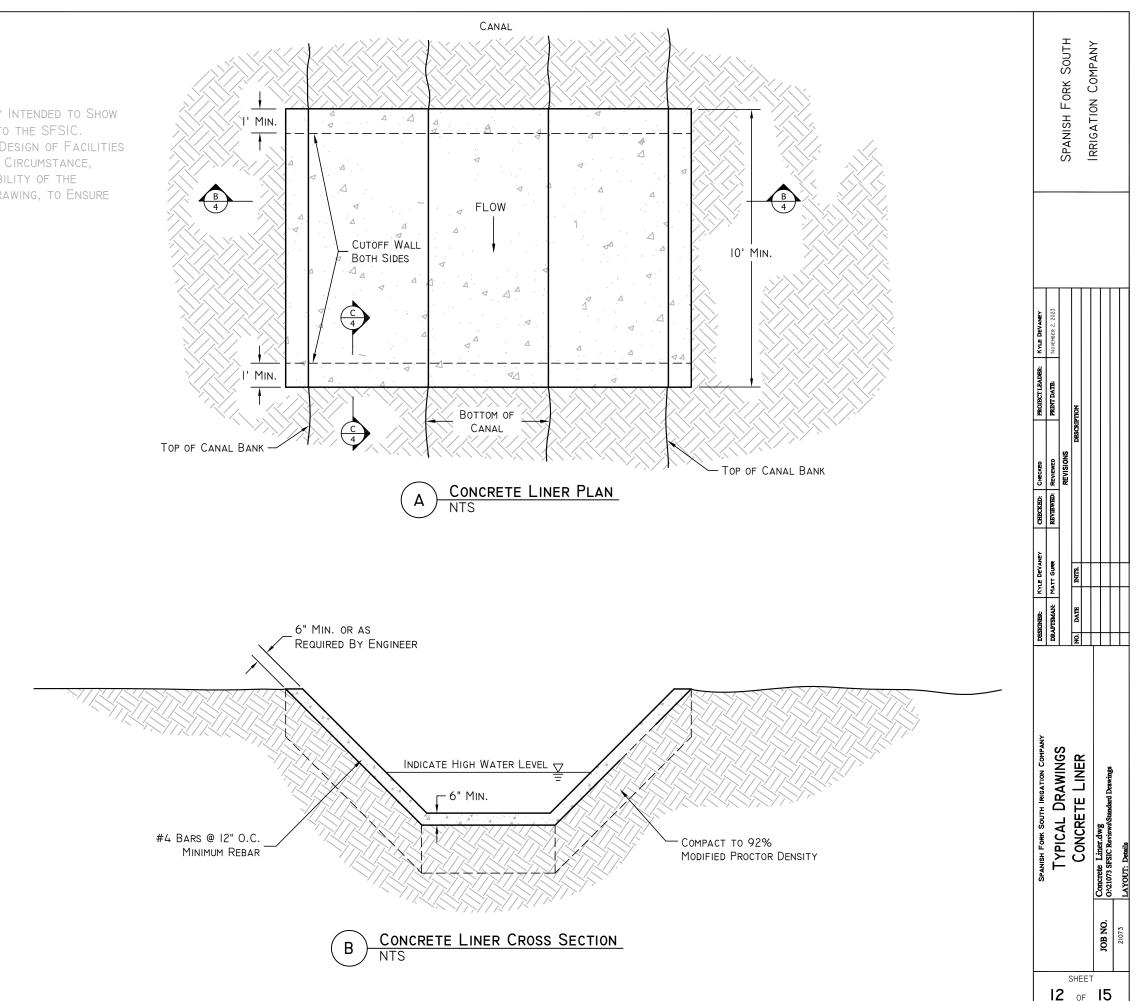
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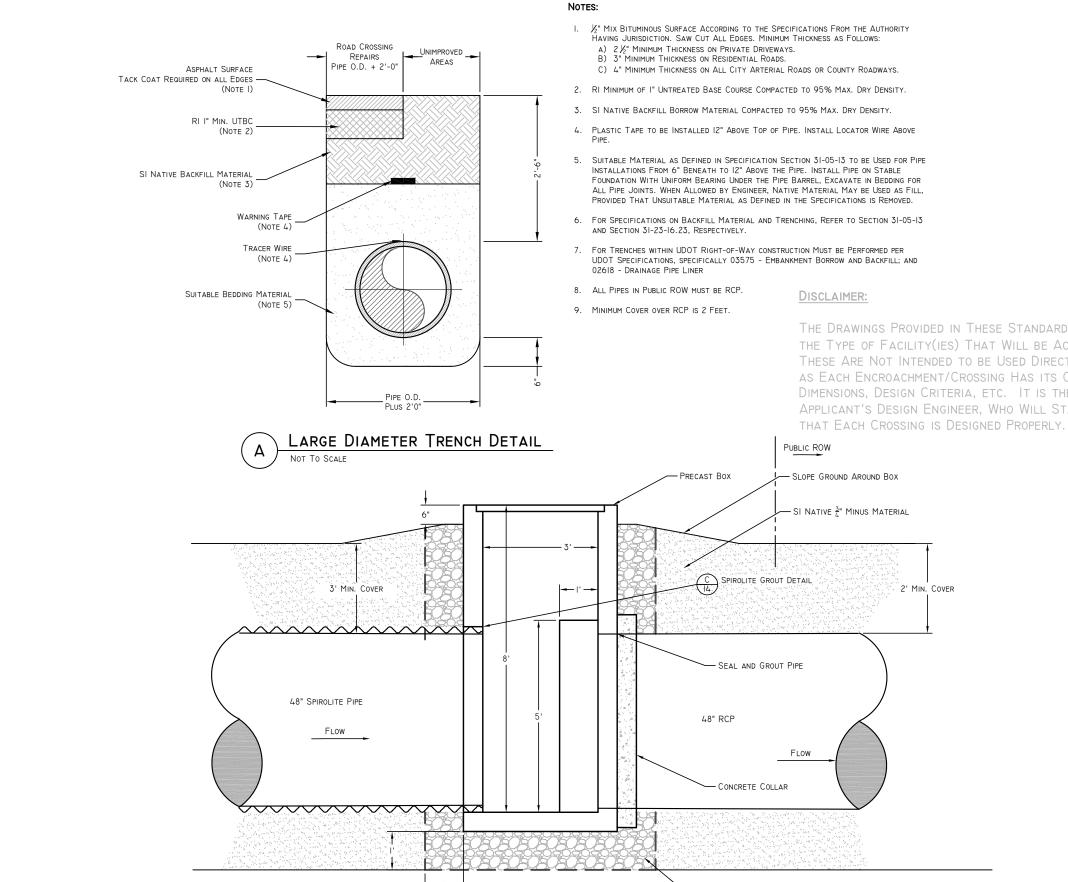




NOTE: ENGINEER TO DETERMINE REBAR SIZE AND SPACING IN CUTOFF WALL.

CUTOFF WALL CROSS SECTION С NTS





SPIROLITE TO RCP TRANSITION

- DI I" MINUS GRAVEL

NOT TO SCALE

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SOUTH COMPANY SPANISH FORK RRIGATION DATE PRINT I BSCRIPTION 19 SIIN ĝ Typical Drawings Large Diameter Pipe Details ANISH FORK SOUTH TYPICAL ğ B SHEET

13 OF 15

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