Springville Irrigation and Drainage Group

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 FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SIDG. 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.

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.

| | | Springville Irrigation and Drainage Group | DESIGNER: | ENGINEER | CHECKED: CHECKED | CHECKED | PROJECT LEADER: PROJECT LEADER | PROJECT LEADER | |
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SPRINGVILLE AREA IRRIGATION AND DRAINAGE GROUP (SIDG) NOTES

GENERAL

CONTRACTOR MUST NOTIFY FRANSON CIVIL ENGINEERS AT LEAST 24 HOURS BEFORE CONSTRUCTION ON SIDG FACILITIES. CALL KYLE DEVANEY WITH FRANSON CIVIL ENGINEERS AT 801-756-0309. FAILURE TO DO SO MAY RESULT IN A \$5,000 FINE.

□ CONTACT INFORMATION FOR FRANSON CIVIL AND SIDG

- 0 KYLE DEVANEY, P.E., FRANSON CIVIL ENGINEERS, 801-756-0309
- PATRICIA AYAA, FRANSON CIVIL ENGINEERS, 801-756-0309 0
- ROGER HOWE, WATER MASTER, SIDG, 801-427-2240 0
- □ ALL CONSTRUCTION AFFECTING IRRIGATION FACILITIES AND WITHIN THE SIDG RIGHT-OF-WAY MUST BE DONE TO SIDG STANDARDS.
- □ ALL BACKFILL MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 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 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.
- APPLY WATERSTOP RX, SWELLSTOP, OR AN APPROVED EQUIVALENT TO ALL CONCRETE COLD JOINTS
- DPVC WATER STOP, OR EQUIVALENT, IS REQUIRED IN ALL JOINTS OF CAST-IN-PLACE CONCRETE TO PREVENT SEEPAGE BETWEEN THE SURFACES.
- □ FENCES DISTURBED DURING CONSTRUCTION ACTIVITIES MUST BE REPLACED AND RETURNED TO PRE-CONSTRUCTION CONDITIONS, OR BETTER.
- □ NEITHER SIDG NOR FRANSON CIVIL CAN VERIFY THE LOCATIONS OF UNDERGROUND FACILITIES. BLUE STAKES SHOULD ALWAYS BE CALLED BEFORE DIGGING (1-800-662-411)

PIPES

- CONTRACTOR MUST DOCUMENT ALL NEW PIPES BY VIDEO CAMERA AFTER INSTALLATION AND BACKELL, ANY PROBLEMS WITH JOINTS LEVELS SLOPES ETC. DISCOVERED BY THE VIDEO TECHNICIANS MUST BE REPAIRED. A DIGITAL COPY OF THE VIDEO MUST BE SUBMITTED TO FRANSON CIVIL ENGINEERS.
- □ PRIOR TO BACKFILLING OF PIPES, THE CONTRACTOR MUST NOTIFY KYLE DEVANEY OF FRANSON CIVIL ENGINEERS SO A GPS SURVEY OF THE LOCATION AND ELEVATION OF THE INSTALLED PIPELINES CAN BE PERFORMED.
- PIPES CROSSING PERPENDICULARLY OVER OR LINDER THE IRRIGATION PIPE(S) SHALL HAVE A MINIMUM ONE-FOOT VERTICAL CLEARANCE.
- DIPIPES OR OTHER UTILITIES RUNNING PARALLEL TO THE IRRIGATION PIPE IN A SHARED EASEMENT SHALL BE PLACED A MINIMUM OF 5 FEET HORIZONTALLY DISTANCED FROM THE IRRIGATION PIPE.
- □ PIPES ENTERING OR EXITING A CLEANOUT BOX OR MANHOLES SHOULD BE SEALED AND GROUTED.
- PIPES ENTERING A CLEANOUT BOX OR MANHOLE MUST BE SECURED IN PLACE WITH A CONCRETE COLLAR

DRAIN LINES

- □ CLAY CUTOFFS ARE REQUIRED EVERY 250 FEET ON SEWER AND OTHER LINES THAT ARE DEEPER THAN DRAIN LINES TO PREVENT WATER FROM FOLLOWING THE PIPE TRENCH. CLAY CUTOFFS MUST BE 2 FEET LONG, KEYED INTO THE TRENCH WALLS I FOOT, SURROUNDING THE PIPE, AND AS HIGH AS THE DRAIN LINES.
- CONTRACTOR MUST DOCUMENT ALL NEW PIPES BY VIDEO CAMERA AFTER INSTALLATION AND BACKFILL. ANY PROBLEMS WITH JOINTS, LEVELS, SLOPES, ETC. DISCOVERED BY THE VIDEO TECHNICIANS MUST BE REPAIRED. A DIGITAL COPY OF THE VIDEO MUST BE SUBMITTED TO FRANSON CIVIL ENGINEERS.
- PRIOR TO BACKFILLING OF PIPES, THE CONTRACTOR MUST NOTIFY KYLE DEVANEY OF FRANSON CIVIL ENGINEERS SO & GPS SURVEY OF THE LOCATION AND ELEVATION OF THE INSTALLED PIPELINES CAN BE PERFORMED.
- PIPES CROSSING PERPENDICULARLY OVER OR UNDER THE LAND DRAIN PIPE(S) SHALL HAVE A MINIMUM ONE-FOOT VERTICAL CLEARANCE.
- DIPIPES OR OTHER UTILITIES RUNNING PARALLEL TO THE LAND DRAIN PIPE IN A SHARED EASEMENT SHALL BE PLACED A MINIMUM OF 5 FEET HORIZONTALLY DISTANCED FROM THE IRRIGATION PIPE.
- □ PIPES ENTERING AND EXITING A CLEANOUT BOX OR MANHOLE MUST BE SEALED AND GROUTED.
- PIPES ENTERING AND EXITING A CLEANOUT BOX OR MANHOLE MUST BE SECURED IN PLACE WITH A CONCRETE COLLAR.

IRRIGATION AND LAND DRAIN CLEANOUT BOXES AND MANHOLES

- KNOCK OUT BOXES AND MANHOLES ARE NOT ALLOWED. ALL BOXES AND MANHOLES SHALL BE PRE-CAST WITH CORED OPENINGS FOR THE PIPES OR SHALL BE CAST-IN-PLACE.
- PIPES ENTERING BOXES AND MANHOLES SHOULD BE CONCRETED ON THE OUTSIDE AND GROUTED ON THE INSIDE.
- REGATION/LAND DRAIN BOXES AND MANHOLES SHALL NOT BE BURIED. THEY SHALL EXTEND TO THE SURFACE OF THE FINAL GRADE. ANY EXISTING BOXES AND MANHOLES 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.

INLET AND OUTLET STRUCTURES

- 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 PROCTOR DENSITY IN 6-INCH MAXIMUM LIFTS.
- □ CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM.

STORMWATER AND DETENTION BASINS

□ ORIFICE PLATE MUST BE GALVANIZED STEEL OR ALUMINUM.

- 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 PROCTOR DENSITY IN 6-INCH MAXIMUM LIFTS.
- CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM

BOX AND PIPE CULVERTS

- CHANNEL 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.
- CHANNEL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CHANNEL PRISM.
- OPEN-CUT TRENCHES FOR THE CUTOFF WALLS SHALL BE CUT AT A MINIMUM OF 2 HORIZONTAL TO I VERTICAL SO THAT BACKFILL CAN BE PROPERLY COMPACTED.
- □ IF EXTENDING AN EXISTING BOX CULVERT, WATERSTOP RX, SWELLSTOP, OR AN APPROVED EQUIVALENT. SHALL BE PLACED BETWEEN THE OLD CULVERT AND THE NEW CULVERT 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. EACH ENTITY CROSSING THE CANAL MUST APPLY FOR, AND RECEIVE, AN ENCROACHMENT AGREEMENT FROM SIDG.

BORING

- □ WORK 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 PLTS MUST BE PLACED COMPLETELY OUTSIDE THE CANAL RIGHT-OF-WAY
- THE 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.
- BORE PIT COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- □ 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 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 BACKELL MATERIAL AT A RATIO OF ONE-PART BENTONITE TO NINE PARTS BACKFILL MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.

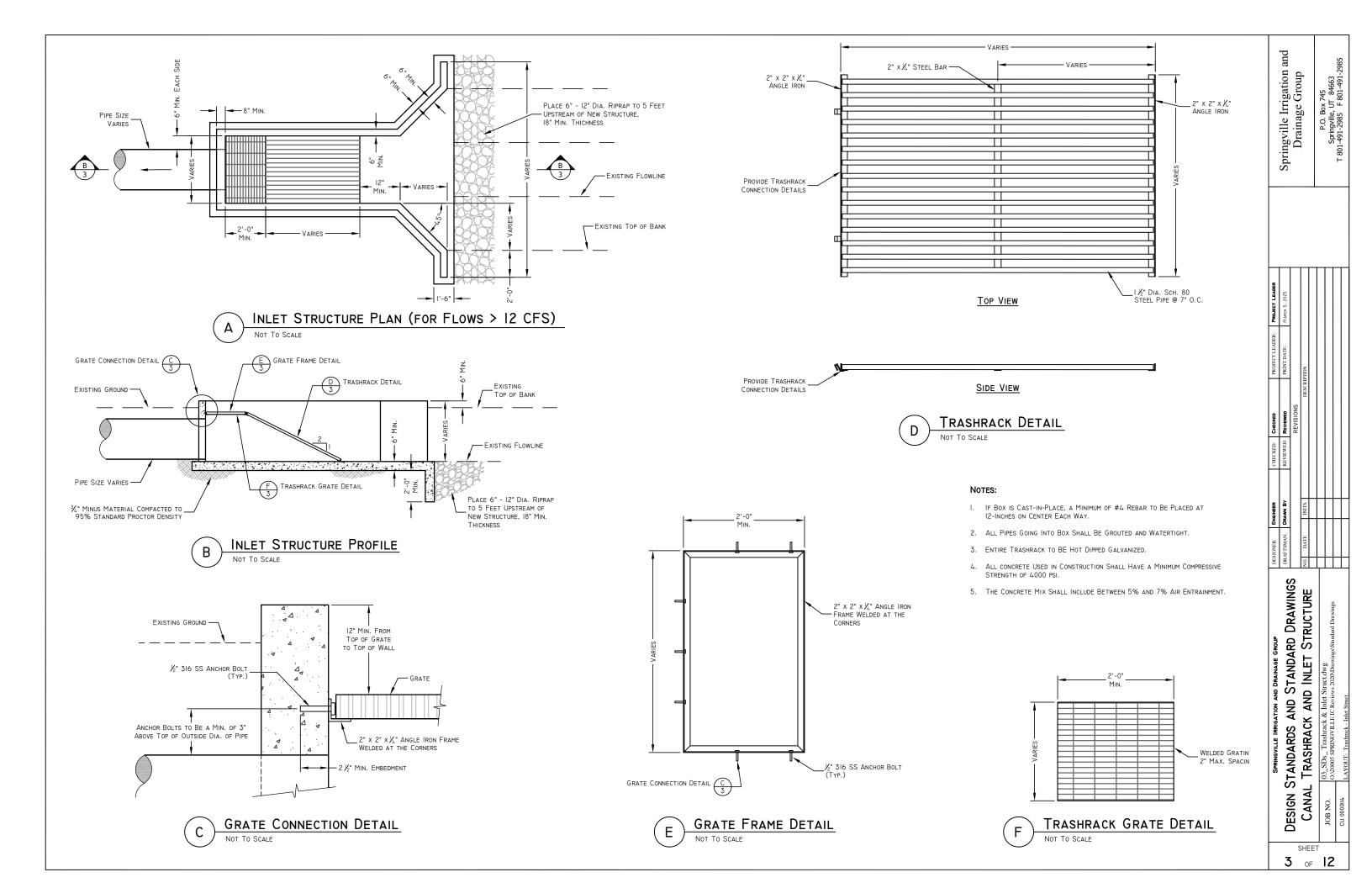
- ARE INSTALLED VERIFICATION OF TRENCH PLUG COMPLETION MUST BE PERFORMED BY FRANSON CIVIL ENGINEERS BEFORE BACKFILLING. KYLE CAN BE REACHED AT 801-756-0309.
- □ IF REQUESTED, COMPACTION TEST RESULTS SHALL BE SUBMITTED TO FRANSON CIVIL ENGINEERS. ALL FAILED MATERIAL SHALL BE REMOVED AND COMPACTED TO SPECIFICATIONS. TESTING MUST BE PERFORMED BY A LICENSED SOILS LAB.
- □ WATER LINE PIPE INSIDE THE CASING SHALL HAVE RESTRAINING JOINTS.
- □ THRUST BLOCKS ARE REQUIRED ON ALL BENDS FOR DIP, PVC, OR PIP WATER LINES.

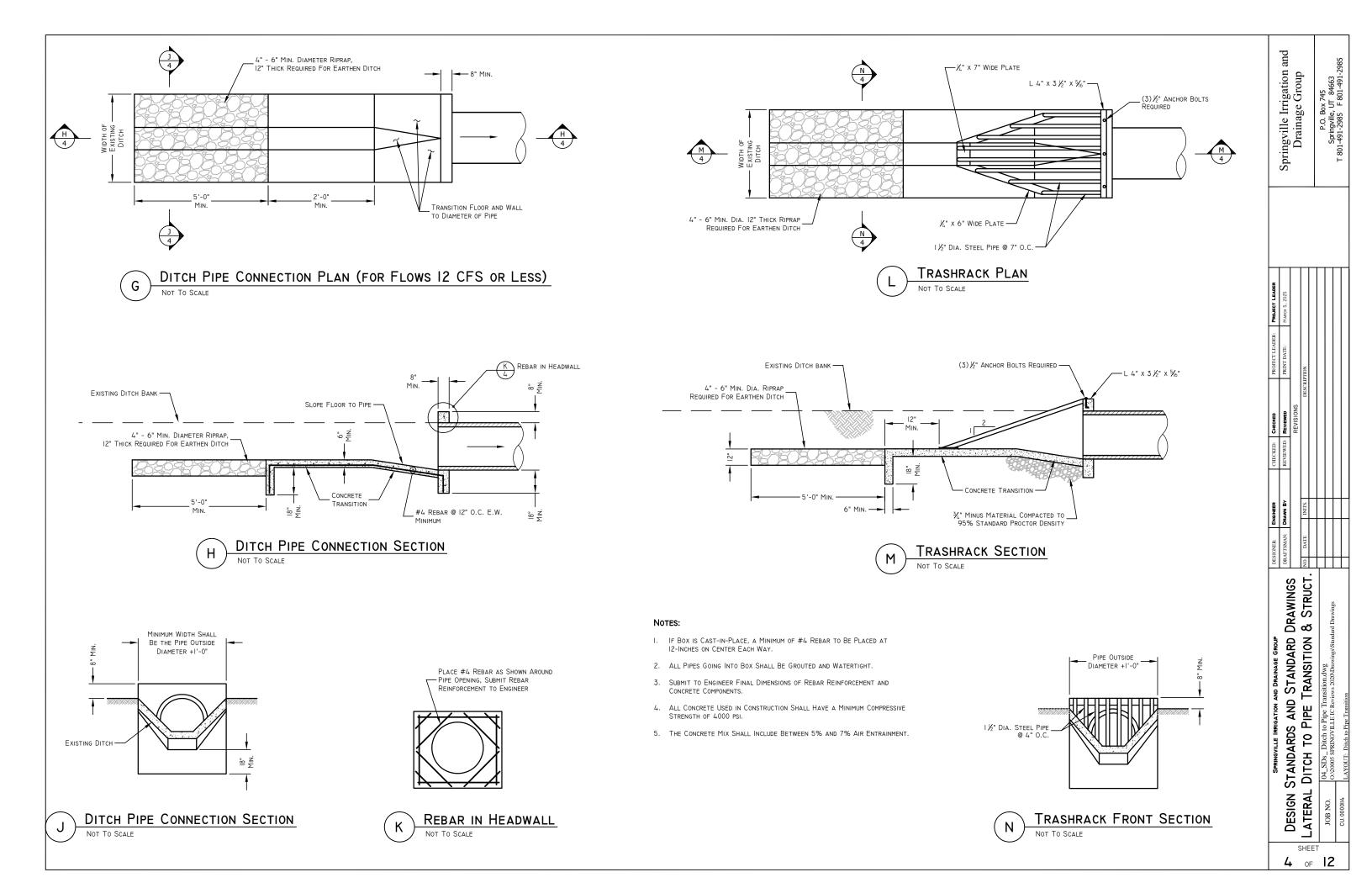
DIRECTIONAL DRILLING AND MICROTRENCHING

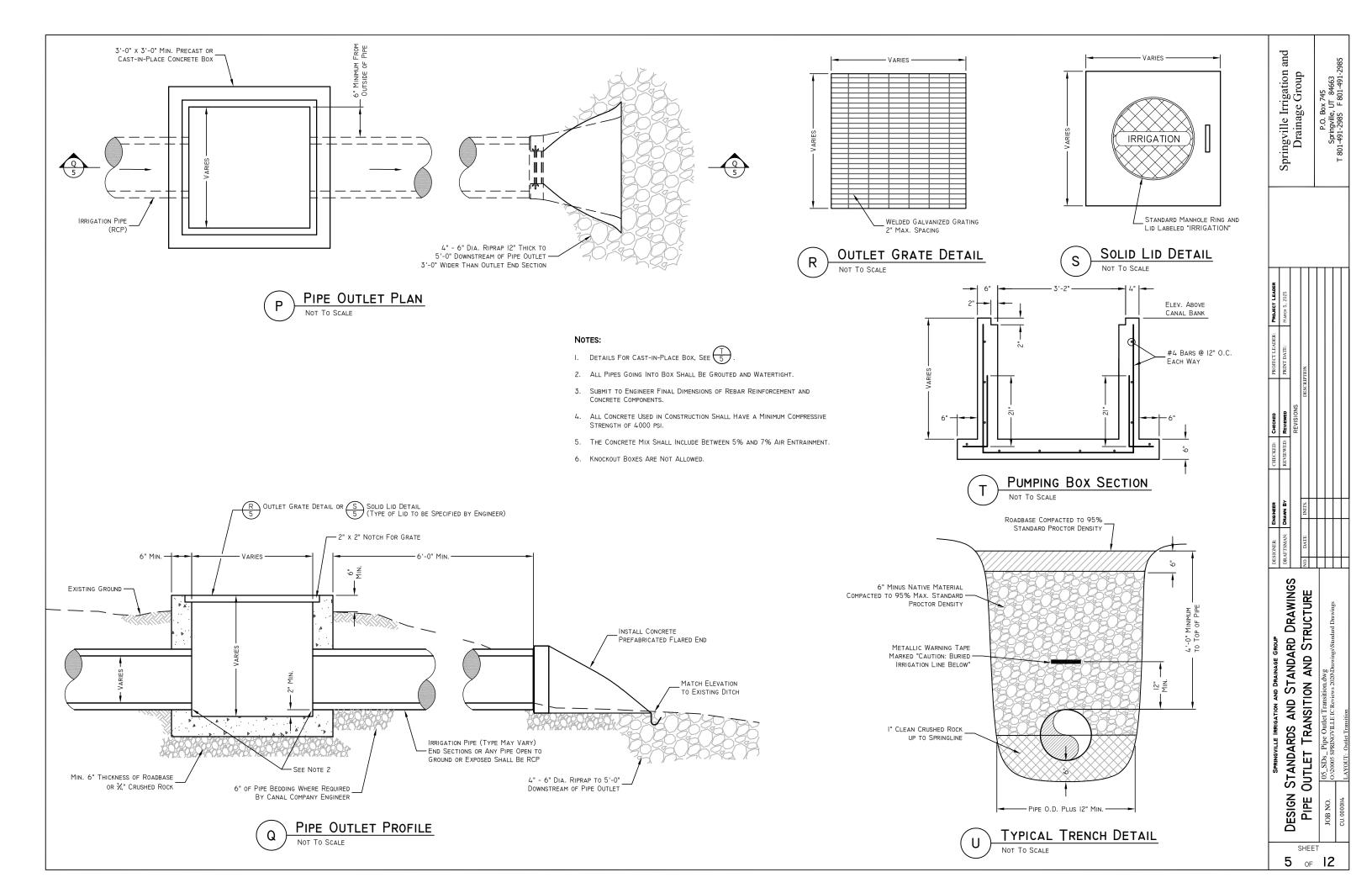
- WORK CANNOT INTERFERE WITH DELIVERY OF WATER. INSTALLATION ACTIVITIES MAY TAKE PLACE AT ANY TIME PROVIDED ULDC'S ACCESS TO OPERATION, MAINTENANCE, AND REPLACEMENT OF IRRIGATION FACILITIES IS NOT IMPACTED.
- □ IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE. ANY DAMAGE TO THE CANAL CORRIDOR CAUSED BY CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
- BORE PLTS MUST BE PLACED COMPLETELY OUTSIDE THE CANAL RIGHT-OF-WAY.
- □ 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.
- □ BORE PIT COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

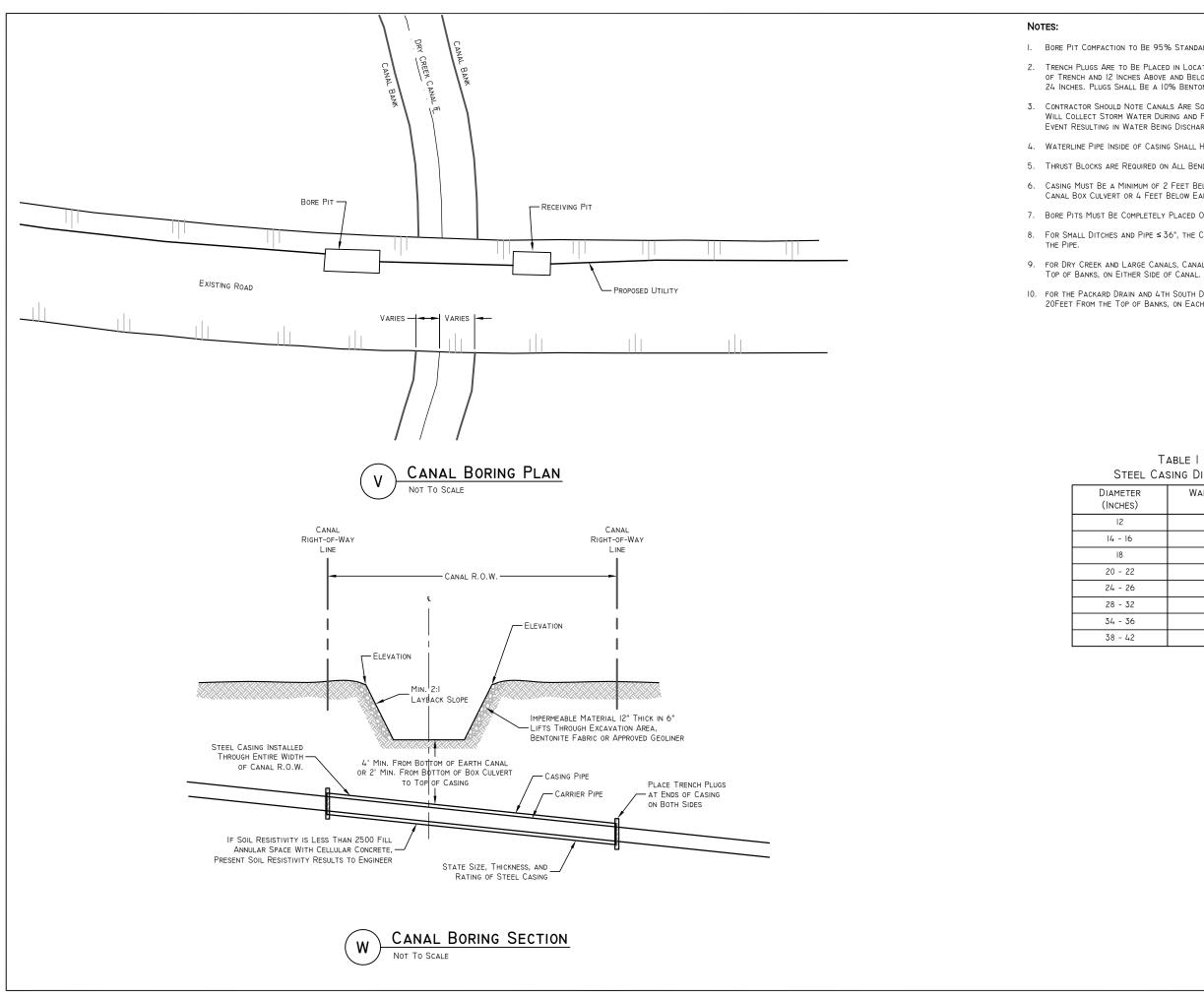
CONTRACTOR TO NOTIFY KYLE DEVANEY OF FRANSON CIVIL ENGINEERS WHEN TRENCH PLUGS

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I. BORE PIT COMPACTION TO BE 95% STANDARD 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 THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE.

3. CONTRACTOR SHOULD NOTE CANALS ARE SOMETIMES USED FOR STORM DRAIN AND WILL COLLECT STORM WATER DURING AND FOLLOWING RAIN, SNOW, OR OTHER EVENT RESULTING IN WATER BEING DISCHARGED IN THE STORM DRAIN SYSTEM.

4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.

5. THRUST BLOCKS ARE REQUIRED ON ALL BENDS FOR DIP, PVC, OR PIP WATERLINES.

CASING MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR 4 FEET BELOW EARTHEN OR CANAL BOTTOM.

7. BORE PITS MUST BE COMPLETELY PLACED OUTSIDE OF THE CANAL RIGHT-OF-WAY.

8. For Small Ditches and Pipe ≤ 36", the Canal ROW is 20 Feet Centered over

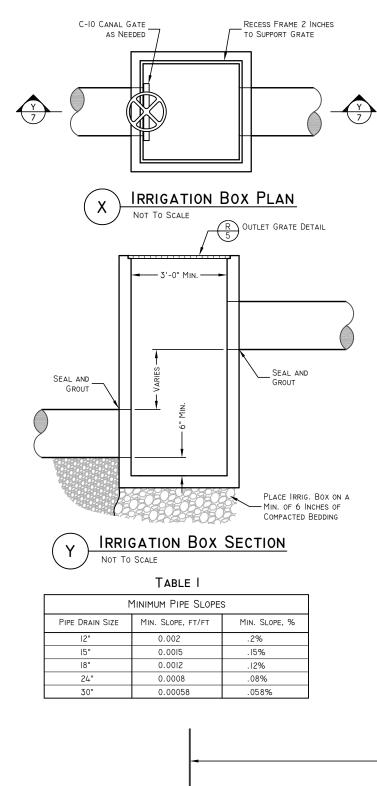
9. FOR DRY CREEK AND LARGE CANALS, CANAL ROW EXTENDS 30 FEET FROM THE

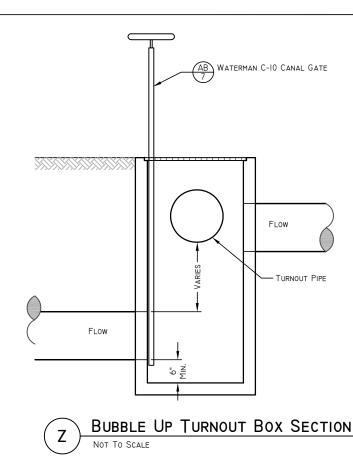
10. FOR THE PACKARD DRAIN AND 4TH SOUTH DRAIN,M THE CANAL ROW EXTENDS 20FEET FROM THE TOP OF BANKS, ON EACH SIDE OF CANAL.

| | Table | 1 |
|----|--------|----------|
| EL | CASING | DIAMETER |

| ER S) | Wall Thickness (Inches) |
|----------|----------------------------|
| | 0.188 |
| | 0.312 |
| | 0.312 |
| 2 | 0.375 |
| 5 | 0.438 |
| 2 | 0.500 |
| 5 | 0.562 |
| 2 | 0.562 |

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| SHE | <u>ح</u> | CANAL ROPING PLAN AND SECTION | NO. | DATE | INITS. | | DESCRIPTION | NOLLá | | On the second se | deara a |
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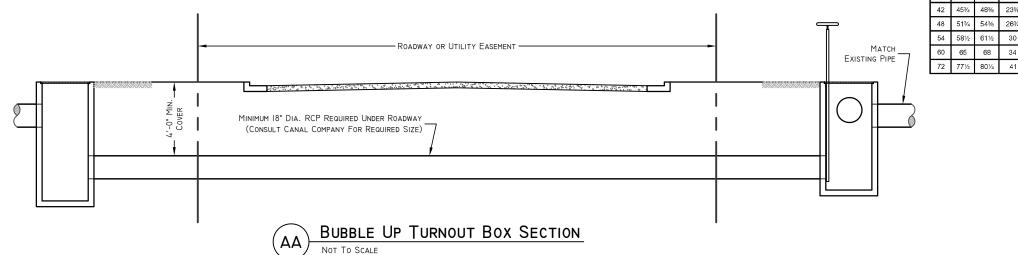


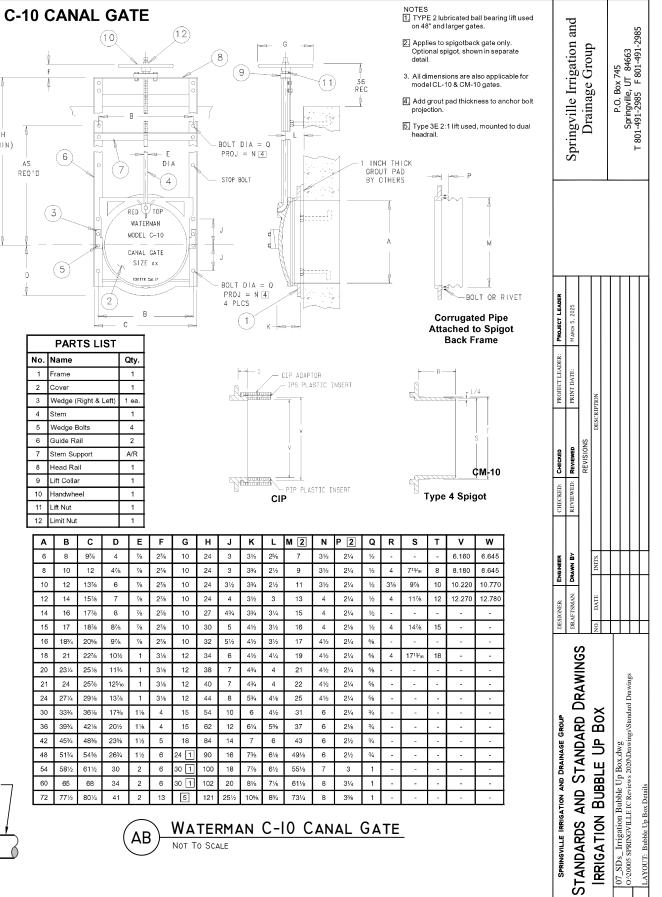


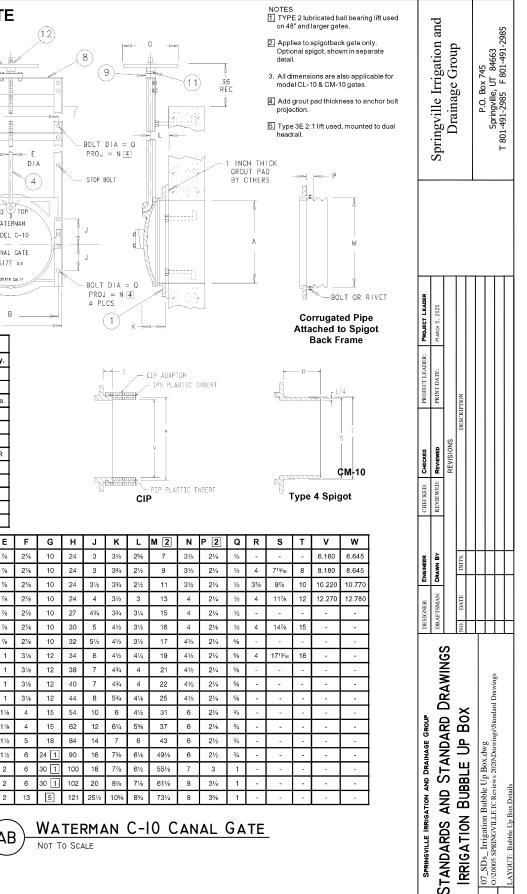
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NOTES:

- IF BOX IS CAST-IN-PLACE, MINIMUM OF #4 REBAR TO BE PLACED @ 12 INCHES ON CENTER, EACH WAY. Ι.
- For Details For Cast-in-Place Box See $\begin{pmatrix} 1\\ 5 \end{pmatrix}$ 2.
- 3. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
- 4. SUBMIT TO ENGINEER FINAL DIMENSIONS OF REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- 5. FOR MINIMUM PIPE SLOPES FOR PIPE UNDER ROADWAY, SEE TABLE I ON SHEET 6.
- 6. BOXES MAY BE PRECAST OR CAST-IN-PLACE. BOXES SHALL HAVE A MINIMUM INTERIOR WIDTH AND LENGTH OF 3 FEET WITH #4 REBAR @ 12 INCHES ON CENTER. BOXES MUST BE SUBMITTED FOR REVIEW.
- KNOCKOUT BOXES ARE NOT ALLOWED.
- IRRIGATION BOXES SHALL NOT BE PLACED IN ROADWAY. 8.
- 9. ALL PIPE PLACED IN ROADWAY MUST BE CLASS III RCP.
- 10. ALL CONCRETE USED IN CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
- THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT П.





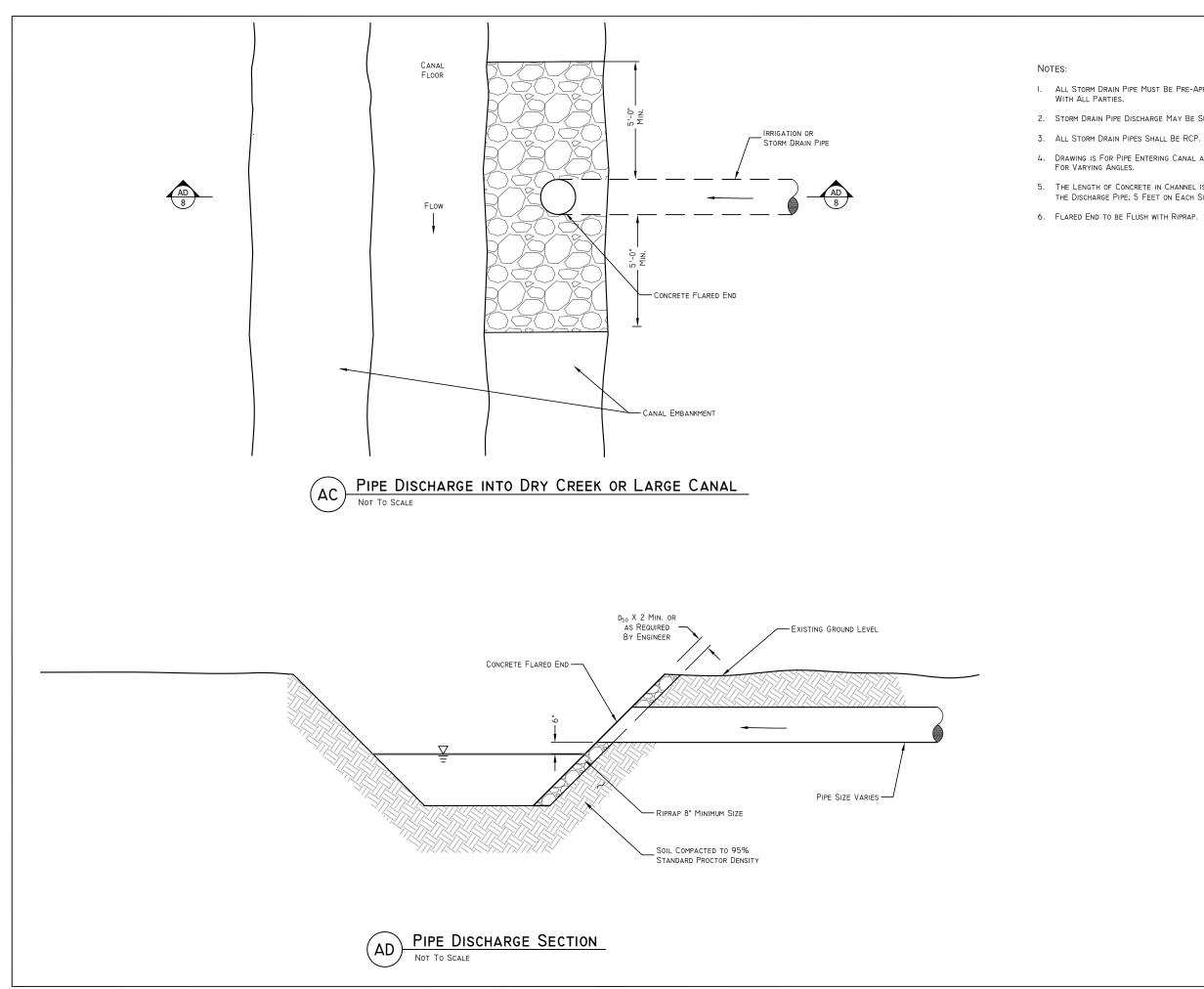


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DESIGN

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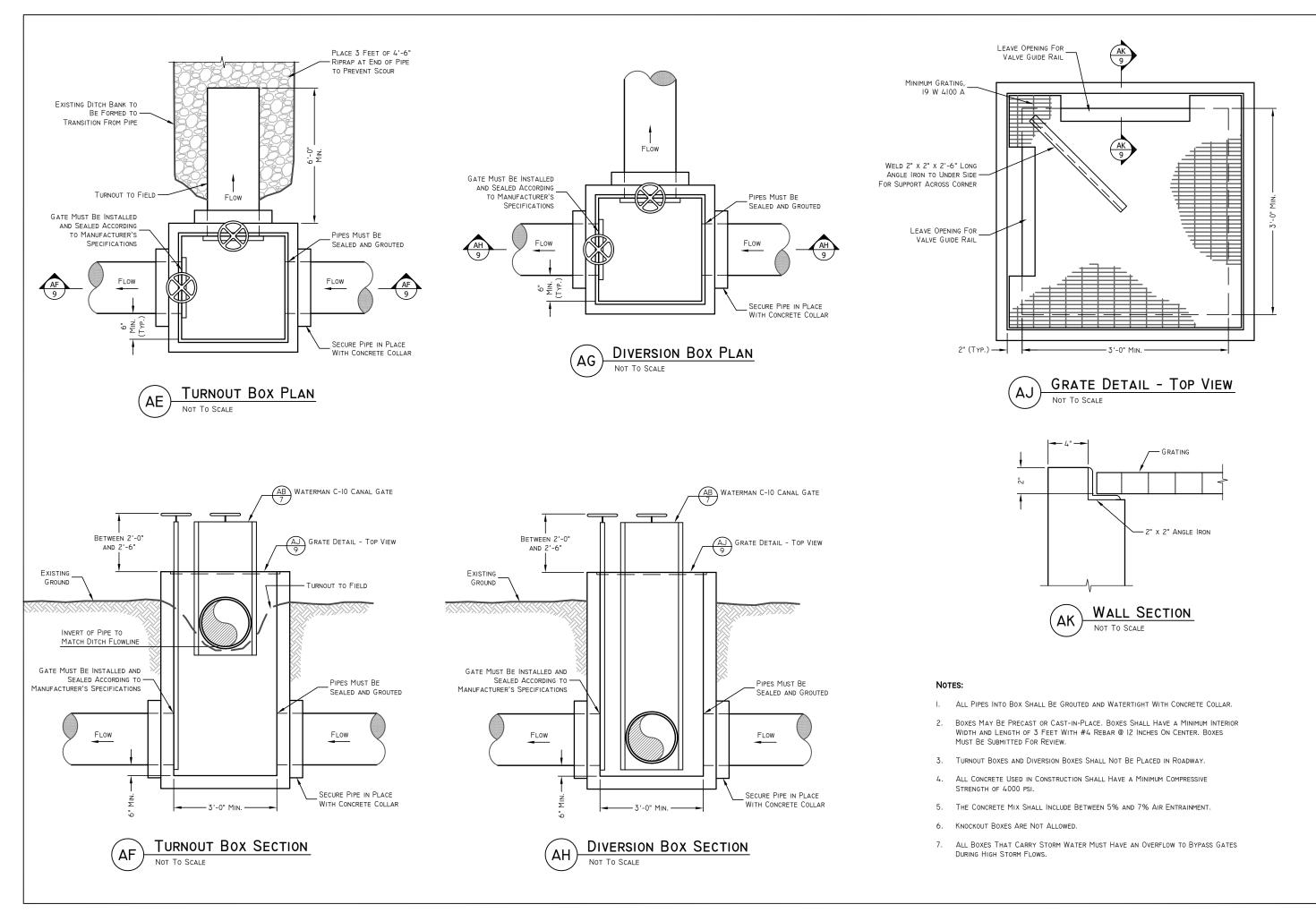
I. ALL STORM DRAIN PIPE MUST BE PRE-APPROVED AND HAVE SIGNED AGREEMENT

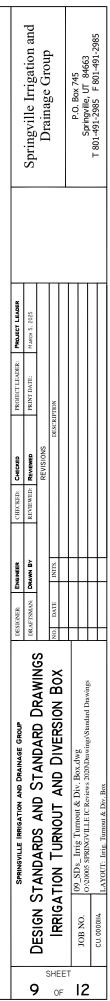
2. STORM DRAIN PIPE DISCHARGE MAY BE SUBJECT TO PRE-TREATMENT REGULATIONS.

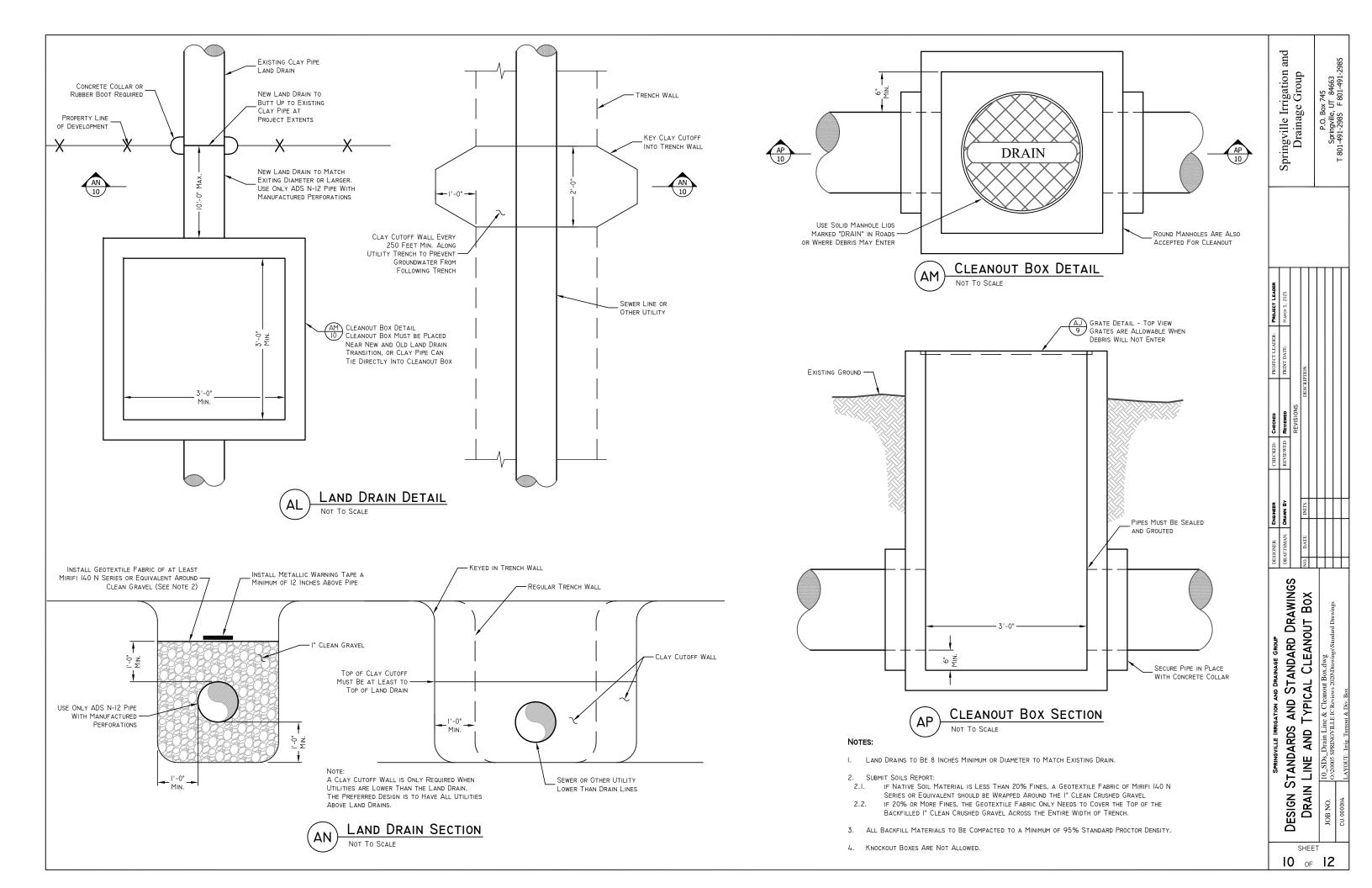
4. Drawing is For Pipe Entering Canal at 90°, Other Dimensions May Apply For Varying Angles.

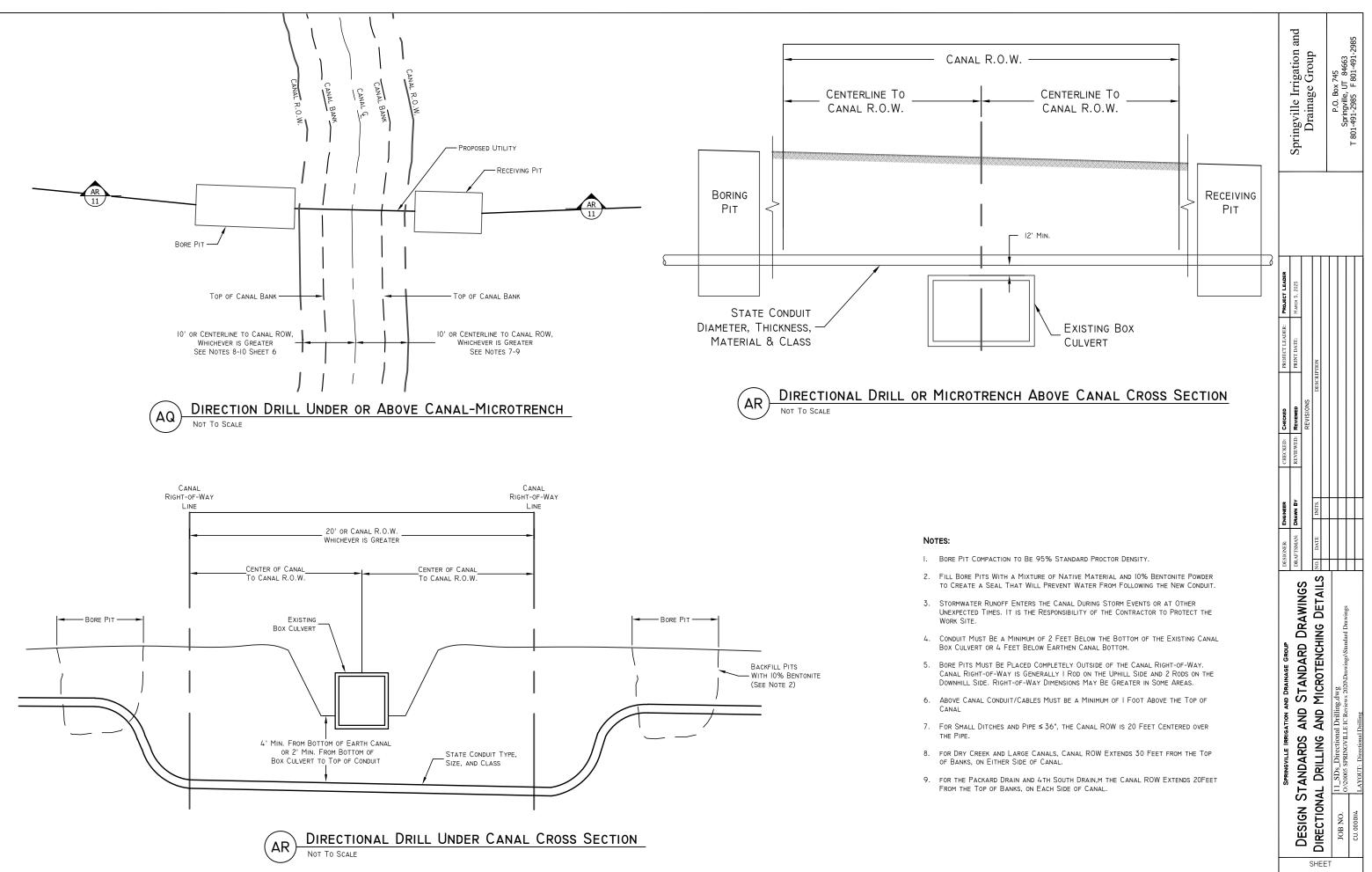
THE LENGTH OF CONCRETE IN CHANNEL IS 10 FEET PLUS THE OUTER DIAMETER OF THE DISCHARGE PIPE; 5 FEET ON EACH SIDE OF PIPE

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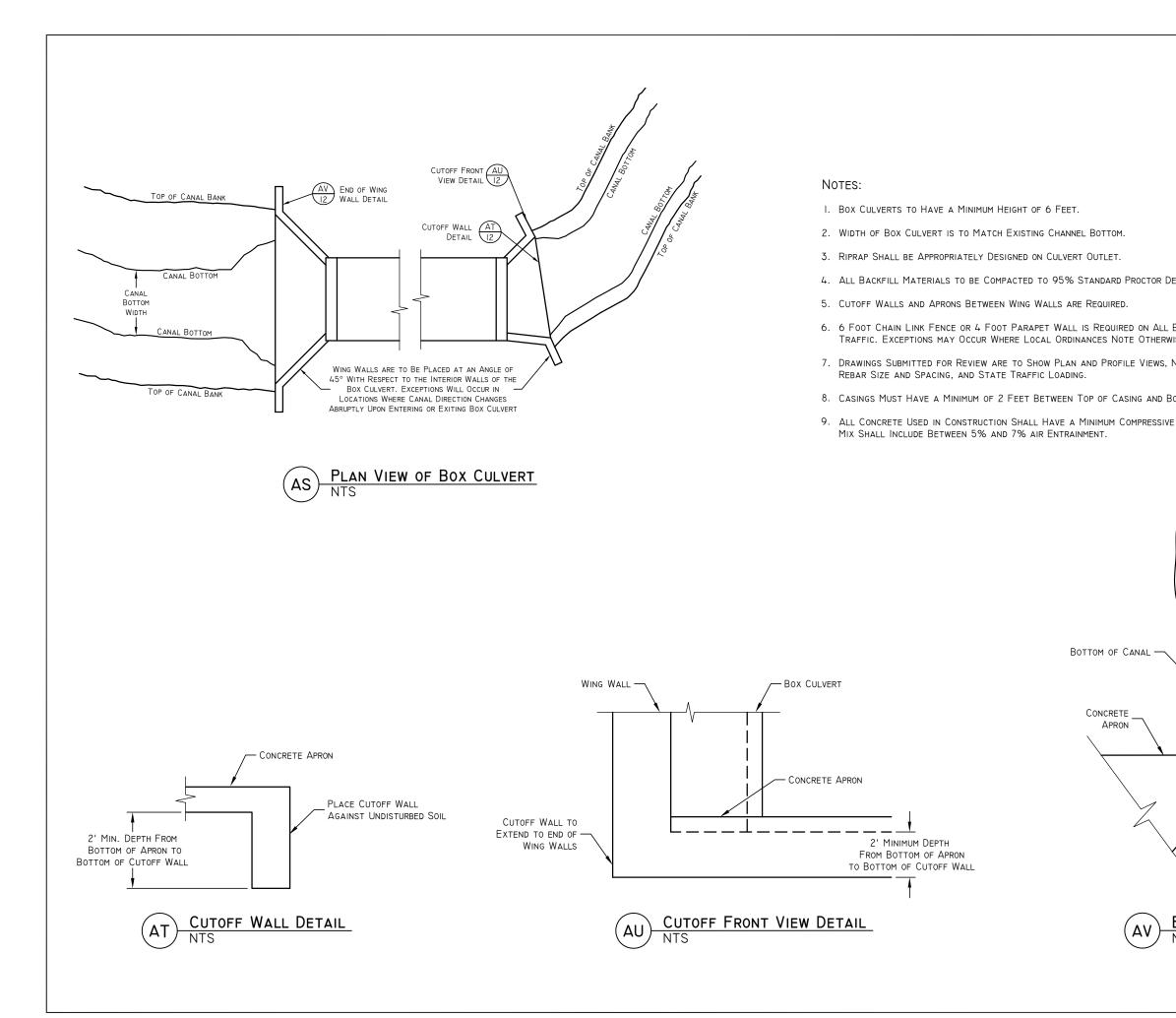








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| BOX CULVERTS THAT CARRY PEDESTRIAN VISE AND UPON APPROVAL BY CANAL COMPANY. | PROJECT LEADER | MARCH 5, 2025 | | | | |
| NOTE SLOPE, INCLUDE DETAIL INDICATING BOTTOM OF BOX CULVERT. E STRENGTH OF 4,000 PSI. THE CONCRETE | PROJECT LEADER: PRO | PRINT DATE: MAR | | DESCRIPTION | | |
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| | ENGINEER CHECKED: | DRAWN BY REVIEWED: | | INITS. | | |
| TOP OF CANAL BANK | DESIGNER: | DRAFTSMAN: | | NO. DATE | | |
| WALL TO EXTEND INTO BANK A MIN. OF 2 FEET BACKFILL BEHIND WALL WITH CLAY MATERIAL TO PREVENT SEEPAGE WING WALL END OF WING WALL DETAIL NTS | SPRINGVILLE IRRIGATION AND DRAINAGE GROUP | DECICAL CTANDADE AND CTANDADE DEAVINCE | DESIGN STANDARDS AND STANDARD DRAWINGS | BOX CULVERT DETAILS | JOB NO. 12-SDs Box Culvert Details.dwg 0-20005 SpRINEVTI I ETC Reviews 2020/Drawinese | CU. 000014 LAYOUT: Details |
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