

WHEN COMPLETED RETURN TO:

Kevin O. Stratford
Wilson Irrigation Company
1742 West 1900 North
Farr West, UT 84404

**WILSON IRRIGATION
COMPANY AND
WEBER COUNTY
EASEMENT ENCROACHMENT AGREEMENT**

This EASEMENT ENCROACHMENT AGREEMENT (the “Agreement”) is made and entered into as of this 11th day of May, 2026, by and between **WILSON IRRIGATION COMPANY**, a non-profit mutual water company organized and existing under the laws of the State of Utah (“Grantee”), and **WEBER COUNTY, a body politic and corporate of the State of Utah**, (“Licensee”). Grantee and Licensee are sometimes referred to herein individually as a “Party” or collectively as the “Parties.”

RECITALS

WHEREAS, Grantee is a non-profit mutual irrigation company organized for the express purpose of delivering water, owning related infrastructure, and operating a canal system (“Canal”) for such purposes;

WHEREAS, Grantee claims prescriptive easement or has a recorded easement (“Easement”) along its Canal that is sufficient for Grantee to conduct routine operations and maintenance and emergency activities related to the Canal; and

WHEREAS, Licensee is constructing and installing a precast, 104’ long 3’x 8’ box culvert as part of the Weber County 2550 South Road Widening Project. Specifically removing existing bridge crossing and installing box culvert with wing wall transitions, updated turnouts with control structure/ head gate and junction structures to reconnect existing service turnouts known as Canal Improvements (“Crossing”) and installation of a 16” casing of the pressurized 8”culinary line, and

WHEREAS, in the course of constructing and installing the Crossing, Licensee must cross and temporarily occupy portions of Grantee’s Easement (“Crossing Area”). The location of the Crossing Area and a plan and profile drawing of the Crossing are set forth in Exhibit “A” attached hereto and incorporated by reference herein; and

WHEREAS, Licensee shall conduct all work associated with the culvert installation in the irrigation off season between October 15 and April 1, and

WHEREAS, Grantee is willing to grant a license and authorize and give its consent to the construction, installation, ownership, operation, maintenance, repair, and replacement of the Crossing by Licensee through Grantee’s Easement within the Crossing Area, subject to and in conformance with the terms and conditions of this Agreement; and

NOW THEREFORE, in consideration of the terms and conditions contained herein, and for other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

AGREEMENT

1. INCORPORATION OF RECITALS AND EXHIBITS. The Recitals set forth above, and the Exhibits referenced as attached hereto are incorporated into and made a part of this Agreement.
2. AUTHORIZATION. Grantee hereby grants to Licensee and its agents, representatives, and contractors a license to excavate the Canal and construct and install the Crossing and to thereafter own, operate, maintain, repair, and replace the Crossing, under, over, or through the Crossing Area, and grants to Licensee and its agents, representatives, and contractors a license for access to the Crossing, including without limitation ingress and egress to and from Grantee's Easement within the Crossing Area, for the purpose of constructing, installing, owning, operating, maintaining, repairing, and replacing the Crossing. The license, authorization, and consent are given subject to the terms and provisions of this Agreement.
3. CROSSING LOCATION. Licensee shall install the canal improvements as depicted in the plan sheet shown in **Exhibit A**. The construction shall consist of box culvert, transition, wing walls, turnout junctions, head gate valve, culinary casing, etc, as identified in **Exhibit A**. The canal improvements shall be installed at the following location and only as shown in **Exhibit A**:

*On the Wilson Irrigation Company North Branch Canal crossing 2550
South at approximately 4050 West in Weber County Unincorporated.*
4. CANAL CROSSING FEE. As consideration for Grantee's consent and authorization to the Crossing as set forth herein, the Licensee shall pay a fee of \$0.
5. CONSTRUCTION AND USE REQUIREMENTS. The Crossing shall be constructed and used in conformance with the following requirements.
 - a) The construction and installation of the Crossing shall only be authorized within the Crossing Area and according to the plan and profile approved by Grantee as described in **Exhibit A** herein.
 - b) Licensee shall fully repair and rebuild the banks of the Canal and restore the Crossing Area to the same condition that existed prior to any such construction or service activity.
 - c) The Crossing shall be constructed by Licensee and thereafter be owned, operated, maintained, inspected, protected, repaired, removed, and replaced by Licensee, at its sole cost and expense, and without any cost, expense, or obligation on the part of Grantee.
 - d) Licensee shall diligently construct the Crossing with due care and in accordance with sound design, engineering, and construction practices customary for such improvements and, except as otherwise allowed by law, for a period of one (1) year

- following completion of construction of the Crossing (the “Warranty Period”) own, operate, maintain, inspect, protect, repair, remove, and replace the Crossing in such a manner as will not interrupt, interfere with, or otherwise impair, in any way, Grantee’s constant, continuous, and uninterrupted use of the Canal in providing irrigation water to its shareholders and/or its ability to operate, maintain, inspect, protect, repair, and replace the Canal.
- e) Licensee hereby warrants that all work performed or to be performed on the Canal in connection with any construction, service, or activity performed by Licensee within the Crossing Area, including, without limitation, restoration of the Canal and Crossing Area, shall be free of any leaks or other damage caused by or otherwise attributable to any such construction, service or other activity by Licensee. Grantee may consider all work that does not reasonably conform to these standards to be defective.
 - f) If within one year following completion of any construction, service, or other activity associated with the Crossing, any of the work performed on the Canal is found by Grantee to be defective, Licensee shall, at its sole cost and expense, correct all such defective work promptly after receipt of written notice from Grantee to do so. If Licensee fails to correct such defective work within a reasonable time frame prescribed by Grantee in said notice, Grantee may perform the work, and Licensee shall reimburse Grantee, as billed, for all costs and expenses, including attorney and engineering fees, reasonably incurred by Grantee in performing such corrective work on the Canal.
 - g) Licensee shall give Grantee not less than fifteen (15) days prior written notice of any initial construction activity and, except in the case of an emergency, Licensee shall give Grantee not less than five (5) business days prior written notice of any subsequent construction or service activities to be performed by Licensee on the crossing area. In the event of an emergency, Licensee will give Grantee as much prior notice as is reasonably possible under the circumstances. Inspection by Grantee will be conducted prior to concrete installation and final walk through.
 - h) No trash, waste, or other offensive material, soil, or landfill will be placed or left within the Crossing Area by Licensee without Grantee’s prior written consent.
 - i) Upon completion of the initial construction, Licensee shall provide Grantee a complete set of “as built” drawings of the crossing.
 - j) In the course of the initial construction of the Crossing or in connection with any subsequent construction or service activity associated with the Crossing, the Licensee covenants that it shall not pollute or contaminate the Crossing Area or Grantee’s water with any hazardous waste, pollutant or contaminant, including, but not limited to, those defined in or pursuant to 42 U.S.C. §9601, et seq.
 - k) Except as shown in Exhibit A, Licensee shall not do any work within the Crossing Area that will result in any changes in the general topography of the land situated within the Crossing Area, including, but not limited to, changes resulting from excavation, dredging, movement or removal of soil, without Grantee’s prior written consent.

- l) Except for the Crossing, no other man-made structure shall be authorized to be placed in or on the Crossing Area without Grantee's prior written consent.
- m) Licensee agrees that, with respect to the initial construction of the Crossing and any subsequent construction, service, maintenance, or other activities performed by or on behalf of Licensee, Licensee shall be responsible for direct, verifiable financial losses incurred by Grantee, its shareholders, or any party to whom Grantee is contractually obligated to deliver water, but only to the extent such losses are directly caused by the negligent acts or omissions or willful misconduct of Licensee in connection with the ownership, operation, maintenance, inspection, protection, repair, removal, or replacement of the Crossing.

Licensee's liability under this Section shall be limited to actual, documented damages and shall exclude any consequential, incidental, speculative, or punitive damages, including but not limited to lost profits not directly attributable to the interruption of water delivery.

- n) No supervision or advisory control, if any, exercised by Grantee on its behalf hereunder shall relieve Licensee of any duty or responsibility which it has to the general public with regard to the initial construction of the Crossing by Licensee, nor relieve it of any duty or responsibility which it has to the general public with regard to its subsequent ownership, operation, maintenance inspection, protection, repair, removal and replacement of the Crossing.

6. RESERVATION OF RIGHTS.

- a) Nothing herein shall be constructed to change, qualify, restrict, or limit, in any way, Grantee's title to or interest in the Canal or Grantee's right to own, operate, maintain, repair, and replace the Canal, or to use the Canal, or the fee or easement lands owned by Grantee associated with the Canal, within the Crossing Area, for any purposes as Grantee, in its sole discretion, sees fit.
- b) Nothing herein shall be interpreted to change, qualify, restrict, or limit in any way Licensee's authority to own, operate, maintain, repair, and replace any public road or right-of-way, including 2550 South. By entering into this Agreement, Licensee does not acknowledge or admit that it needs Grantee's license or permission to perform the work associated with the road widening project on 2550 South; rather, Licensee reserves all legal rights that it currently has, while acknowledging that Grantee also has certain legal rights that must be honored.

7. PERFORMANCE BOND AND INSURANCE: Wilson Irrigation Company shall be included as a certificate holder on the Certificate of Insurance for the Crossing Project. Weber County Project Documents shall include Performance and Payment Bond. Licensee's liability coverage is provided through, and subject to the terms and conditions of, the Utah Counties Indemnity Pool.

8. AMENDMENT. This Agreement cannot be extended, terminated, modified, or amended except by a written agreement signed by each of the Parties.

9. INTEGRATION. This Agreement constitutes the entire understanding and agreement by and among the Parties hereto and supersedes all prior agreements, representations, or

understandings by and among them, whether written or oral, pertaining to the subject matter hereof.

10. SUCCESSORS AND ASSIGNS. The rights, conditions, and provisions of this Agreement shall inure to the benefit of and be binding upon the successors and assigns of the respective Parties.
11. SEVERABILITY. If any provision of this Agreement is, to any extent, declared by a court of competent jurisdiction to be invalid or unenforceable, the remainder of this Agreement will not be affected thereby, and each provision of this Agreement will be valid and enforceable to the fullest extent permitted by law.
12. ATTORNEY FEES. In the event this Agreement or any provision hereof shall be enforced by an attorney retained by either Party hereto, whether by suit or otherwise, all costs incurred, including court costs and reasonable attorney fees, and costs incurred upon appeal or in bankruptcy court, shall be paid by the Party who breaches or defaults hereunder.
13. WARRANTY OF AUTHORITY. The individuals executing this Agreement on behalf of the Parties hereby warrant that they have the requisite authority to execute this Agreement on behalf of the respective Parties and that the respective Parties have agreed to be and are bound hereby.

IN WITNESS WHEREOF, the Parties hereto have caused these presents to be executed by their respective officers on the date first above written.

Wilson Irrigation Company
a Utah non-profit mutual water corporation
Grantee

By: 
Kevin O Stratford

Its: PRESIDENT
President

WEBER COUNTY
A body politic and corporate of the State of Utah
Licensee

By: _____

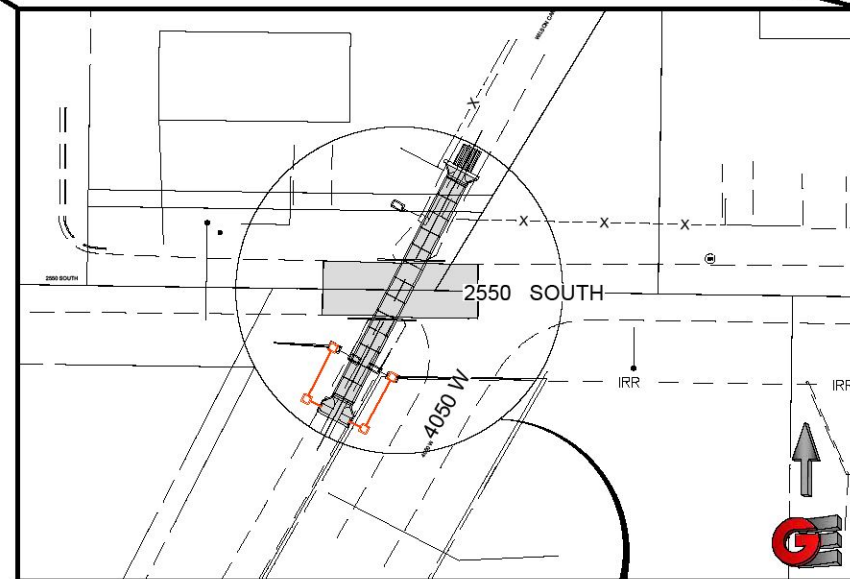
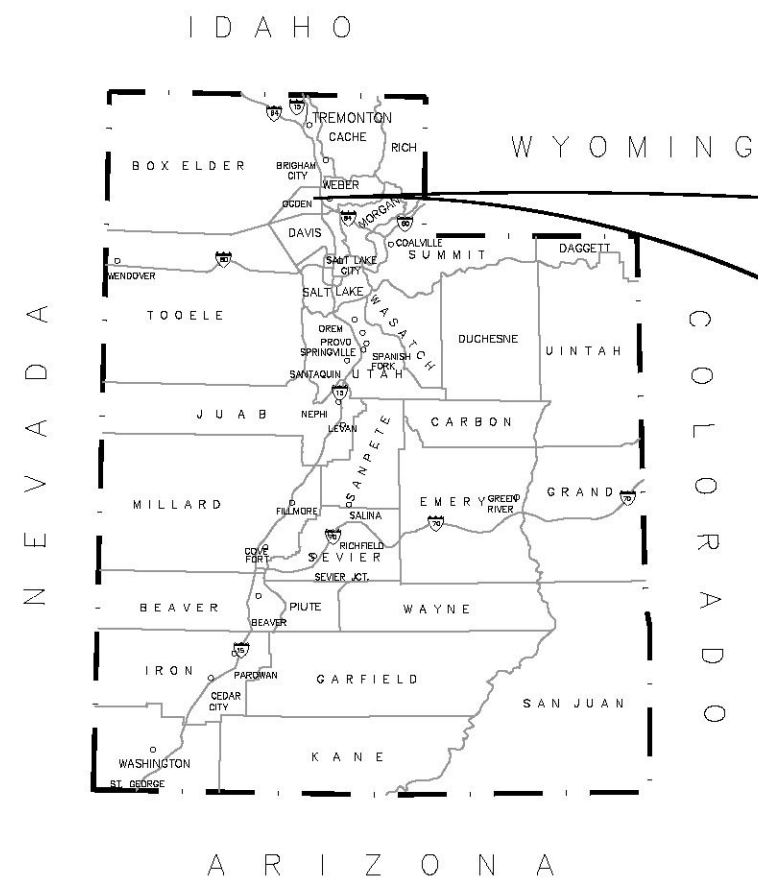
Name: Gage Froerer

Its: County Commission Chair

EXHIBIT “A”

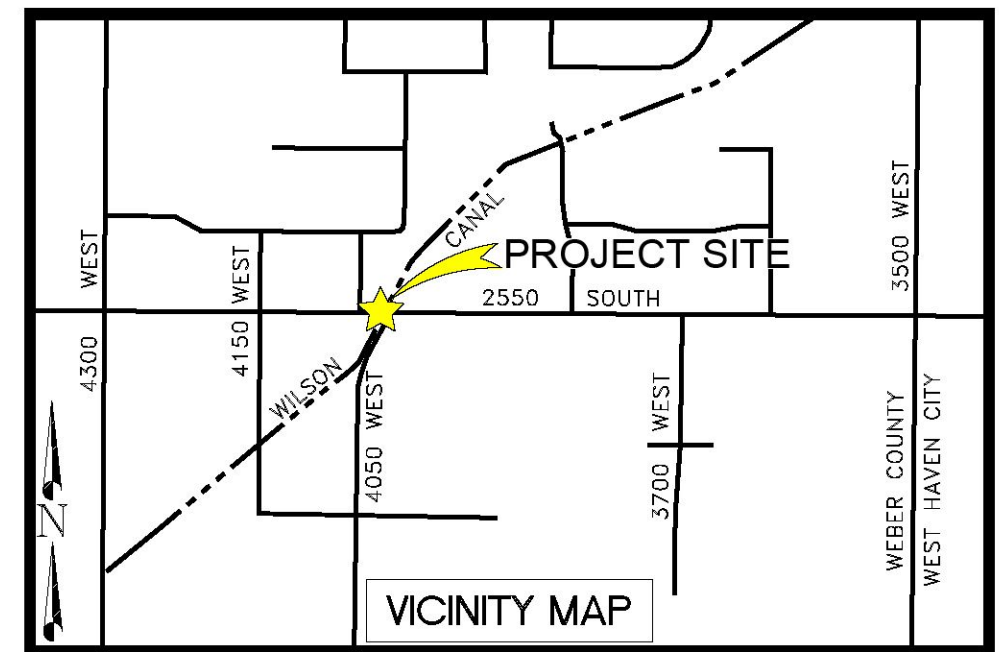
WEBER COUNTY

2550 SOUTH WILSON CANAL BOX CULVERT INSTALLATION DECEMBER 2025



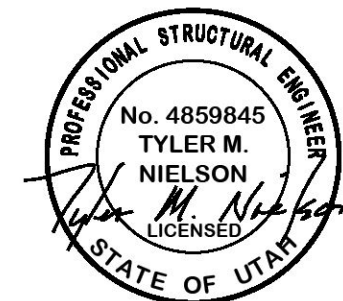
2550 SOUTH & WILSON CANAL
INSTALL BOX CULVERT FOR
FUTURE ROADWAY WIDENING

4050 WEST



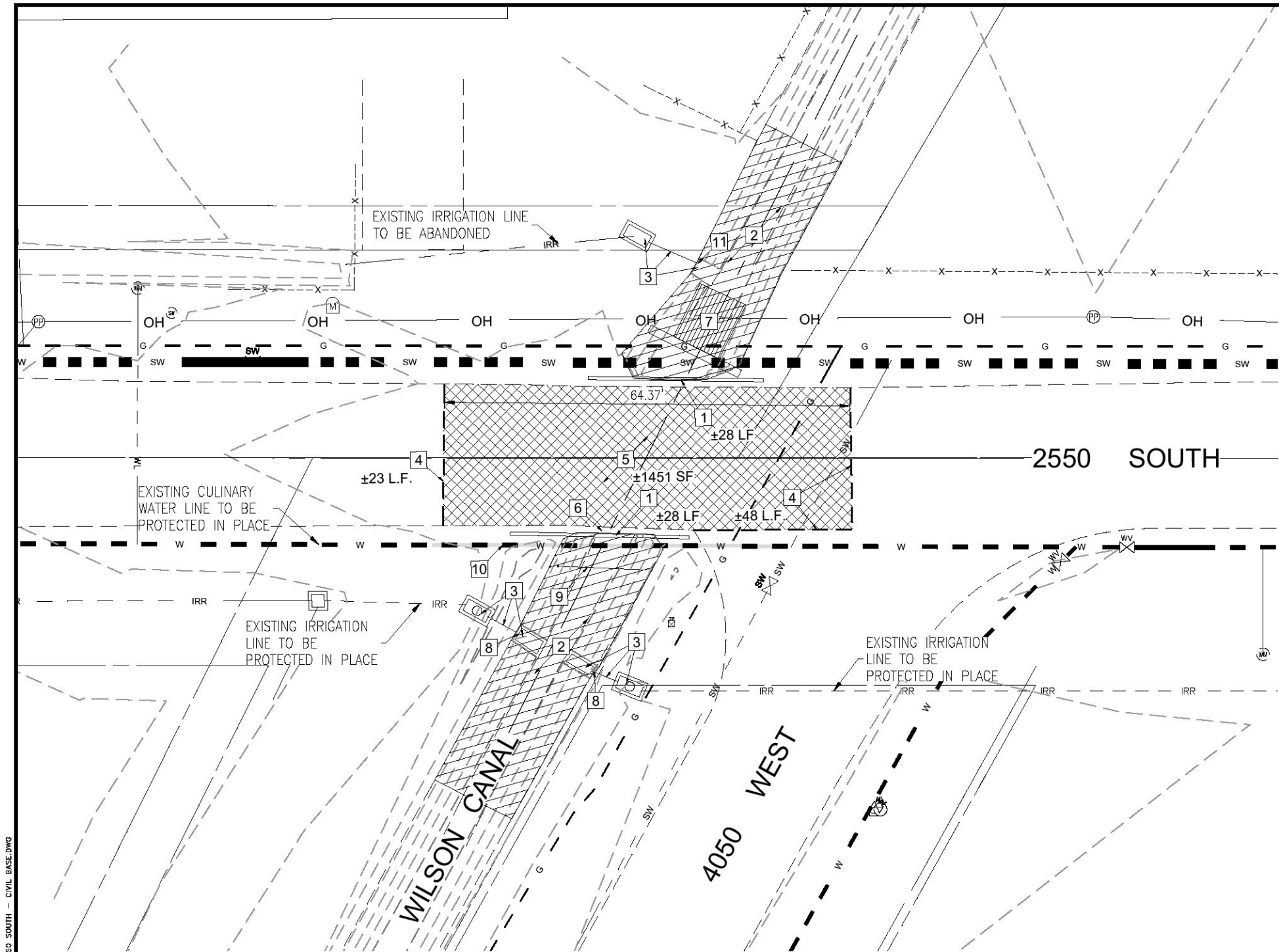
SHEET INDEX:

C-1	COVER SHEET
DP-1	WILSON CANAL DEMOLITION PLAN
SP-1	TEMPORARY 2550 SOUTH ASPHALT PATCH
TS-1	WILSON CANAL BOX CULVERT SECTION
TS-2	WILSON CANAL IRRIGATION TURNOUTS
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CP-2	2550 S WATERLINE LOOP - PLAN AND PROFILE
DT-1	WILSON CANAL ISOMETRIC DETAILS
DT-2	WILSON CANAL REINFORCEMENT DETAILS
DT-3	WILSON CANAL DETAILS
DT-4	2550 S WATERLINE LOOP SECTION
DT-5	TAYLOR WEST WEBER WATER TYPICAL DETAILS



COVER SHEET - C1

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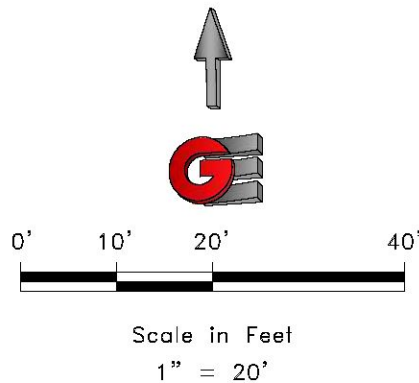


GENERAL DEMOLITION NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO WEBER COUNTY STANDARDS, WILSON IRRIGATION COMPANY AND APWA STANDARDS.
2. ALL WILSON CANAL BOX CULVERT INSTALLATION SHALL BE COMPLETE BY APRIL 1, 2026, PRIOR TO WATER BEING RELEASED INTO THE CANAL FOR THE IRRIGATION SEASON.
3. ALL THE EXISTING CANAL CONCRETE REMOVAL IS INCLUDED AS A LUMP SUM ITEM UNDER THE SITE CLEARING LINE ITEM.
4. ALL NECESSARY DEMO AND REMOVAL NOT SPECIFICALLY CALLED OUT ON THIS PLAN SHALL ALSO BE INCLUDED IN THE SITE CLEARING LINE ITEM.
5. CONSTRUCTION SHALL TAKE PLACE IN THE FALL/WINTER WHEN FLOWS ARE LOW.
6. FOR ALL DEWATERING REQUIREMENT COORDINATE WITH WILSON IRRIGATION COMPANY.
7. SITE CLEARING SHALL INCLUDE REMOVAL OF EXISTING VEGETATION NEEDED FOR INSTALLATION OF PROPOSED BOX CULVERT, SAW CUTTING OF EXISTING CONCRETE IN PREPARATION OF NEW BOX CULVERT INSTALLATION AND CHANNEL IMPROVEMENT FOR THE WILSON CANAL.
8. EXCAVATED MATERIAL AND CONSTRUCTION DEBRIS MAY NOT BE WASTED IN ANY STREAM CHANNEL OR PLACED IN FLOWING WATERS, THIS WILL INCLUDE MATERIAL SUCH AS GREASES, OIL, JOINT COATING, OR ANY OTHER POSSIBLE POLLUTANT. EXCESS MATERIALS MUST BE WASTED AT AN UPLAND SITE WELL AWAY FROM ANY CHANNEL. CONSTRUCTION MATERIALS, BEDDING MATERIAL, EXCAVATED MATERIAL, ETC. MAY NOT BE STOCKPILED IN RIPARIAN OR CHANNEL AREAS.
9. ALL EXISTING UTILITIES MAY NOT BE SHOWN AND ARE APPROXIMATE ONLY. THE LOCATION AND ELEVATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD LOCATE ALL UTILITIES. ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED AND POTHOLED, IF NECESSARY, TO CONFIRM IF CONFLICTS EXIST. IF CONFLICTS EXIST CONTRACTOR SHALL NOTIFY OWNER/ENGINEER PRIOR TO CONSTRUCTION.
10. ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF WILSON IRRIGATION COMPANY KEVIN STRATFORD AT (801) 430-0582 AND GARDNER ENGINEERING AT (801) 476-0202, IMMEDIATELY AND PRIOR TO ANY CONSTRUCTION.

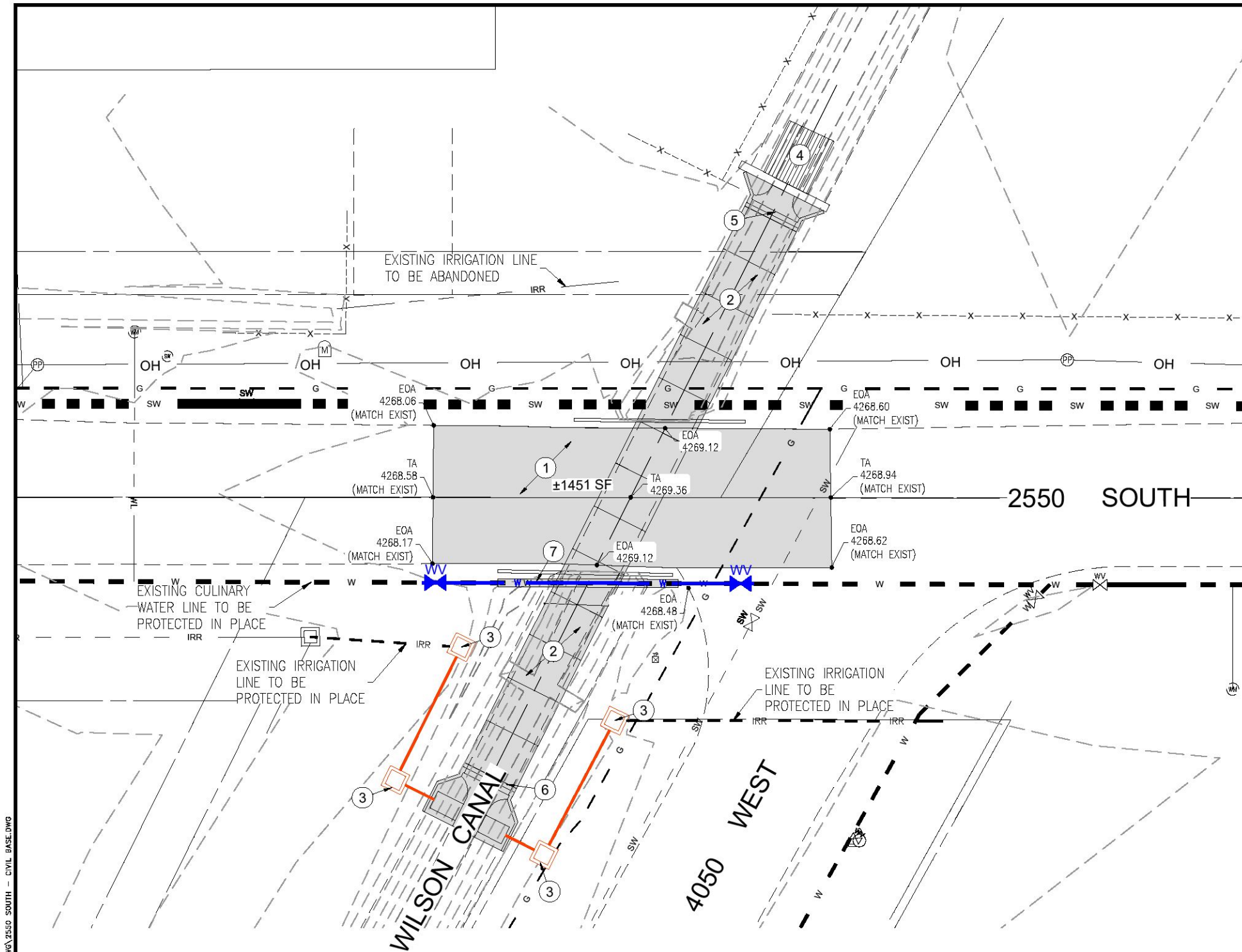
DEMOLITION PLAN KEY NOTES

- 1 REMOVE EXISTING CANAL GUARDRAIL, ± 56 L.F.
- 2 REMOVE AND DISPOSE OF ±115 L.F. OF EXISTING CONCRETE CANAL
- 3 REMOVE AND DISPOSE OF EXISTING CONCRETE IRRIGATION STRUCTURES AND IRRIGATION PIPE
- 4 EXISTING ASPHALT PAVING TO BE SAWCUT, ± 71 L.F.
- 5 REMOVE AND DISPOSE OF ±1451 S.F. OF EXISTING ASPHALT PAVING
- 6 REMOVE AND DISPOSE OF EXISTING CONCRETE BRIDGE DECK, INCLUDING FOUNDATION SUPPORT CONCRETE.
- 7 EXISTING TRASH RACK TO BE REFURBISHED AND REINSTALLED
- 8 EXISTING CANAL SLIDE GATES TO BE REFURBISHED AND REINSTALLED AT NEW IRRIGATION TURNOUTS
- 9 COORDINATE WITH THE UTILITY COMPANY TO REMOVE AND LOOP COMMUNICATION LINE UNDER CANAL
- 10 REMOVE APPROX. 54 L.F. OF EXISTING 8"Ø CULINARY WATERLINE FOR NEW WATERLINE LOOP UNDER BOX CULVERT, COORDINATE WITH TAYLOR WEST WEBER WATER
- 11 EXISTING CANAL SLIDE GATE TO BE REMOVED AND RETURNED TO WILSON IRRIGATION CO.



Revisions	Date	1-26-2026
	Scale	1" = 20'
Description	Designed	BSD
	Drafted	BSD
Date	Checked	TN
PROFESSIONAL STRUCTURAL ENGINEER No. 4859845 TYLER M. NIELSON LICENSED STATE OF UTAH		
WILSON CANAL DEMOLITION PLAN		
2550 SOUTH IMPROVEMENT PROJECT		
2550 SOUTH - 3500 WEST TO 4700 WEST		
WEBER COUNTY, UTAH		
GARDNER ENGINEERING CIVIL - LAND PLANNING MUNICIPAL - LAND SURVEYING 1500 W 2000 S, WEST HAVEN, UT 84401 P 801.476.0202 F 801.476.0008		
DP-1		

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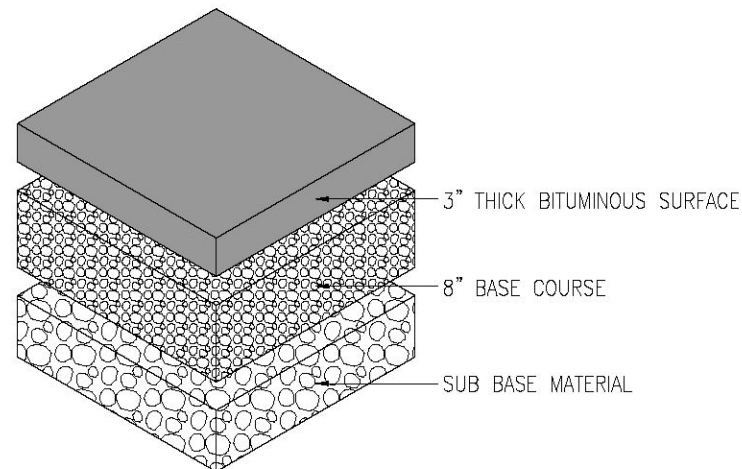


GENERAL NOTES:

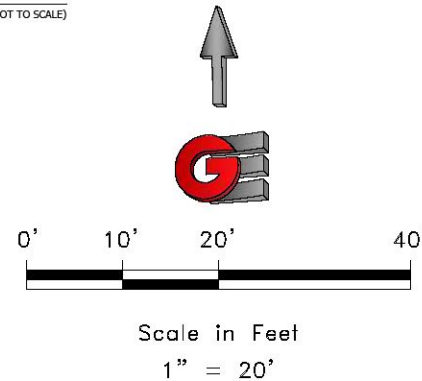
1. ALL CONSTRUCTION SHALL CONFORM TO WEBER COUNTY STANDARDS, WILSON IRRIGATION COMPANY, AND APWA STANDARDS.
2. ALL WILSON CANAL BOX CULVERT INSTALLATION SHALL BE COMPLETE BY APRIL 1, 2026, PRIOR TO WATER BEING RELEASED INTO THE CANAL FOR THE IRRIGATION SEASON.
3. ALL EXISTING UTILITIES MAY NOT BE SHOWN AND ARE APPROXIMATE ONLY. THE LOCATION AND ELEVATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD LOCATE ALL UTILITIES. ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED AND POTHOLED, IF NECESSARY, TO CONFIRM IF CONFLICTS EXIST. IF CONFLICTS EXIST CONTRACTOR SHALL NOTIFY OWNER/ENGINEER PRIOR TO CONSTRUCTION.
4. ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF WILSON IRRIGATION COMPANY KEVIN STRATFORD AT (801) 430-0582 AND GARDNER ENGINEERING AT (801) 476-0202, IMMEDIATELY AND PRIOR TO ANY CONSTRUCTION.
5. ALL TRAFFIC CONTROL SHALL BE APPROVED BY THE WEBER COUNTY TRAFFIC ENGINEER, ALL WORK ZONES TO CONFORM TO WEBER COUNTY STANDARDS, THE CONTRACTOR IS TO COORDINATE WITH THE WEBER COUNTY TRAFFIC ENGINEER FOR TRAFFIC CONTROL ON 2550 SOUTH AND 4050 WEST.
6. A CONTROL POINT WITH A BENCHMARK ELEVATION WILL BE SET PRIOR TO CONSTRUCTION.

SITE PLAN KEY NOTES

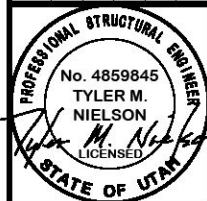
1. INSTALL ±1451 S.F. TEMP. ASPHALT, SEE TYPICAL DETAIL THIS SHEET
2. NEW BOX CULVERT, SEE SHEET TS-1 FOR TYP. SECTION
3. INSTALL IRRIGATION TURNOUT JUNCTION BOXES, SEE SHEET TS-2 FOR ELEVATIONS AND GRADES
4. REFURBISH AND REINSTALL EXISTING CANAL TRASH RACK
5. CONST CAST-IN-PLACE CONCRETE NORTH HEAD WALL, SEE DETAIL 1 ON SHEET DT-1
6. CONST CAST-IN-PLACE CONCRETE SOUTH HEAD WALL, SEE DETAIL 2 ON SHEET DT-1
7. INSTALL 8"Ø CULINARY WATERLINE LOOP UNDER BOX CULVERT, REFER TO SHEET CP-2 FOR THE 2550 S WATERLINE LOOP PLAN AND PROFILE, COORDINATE WITH TAYLOR WEST WEBER WATER



1. TEMPORARY ASPHALT PAVING SECTION
Scale: (NOT TO SCALE)



Revisions		Date	Description

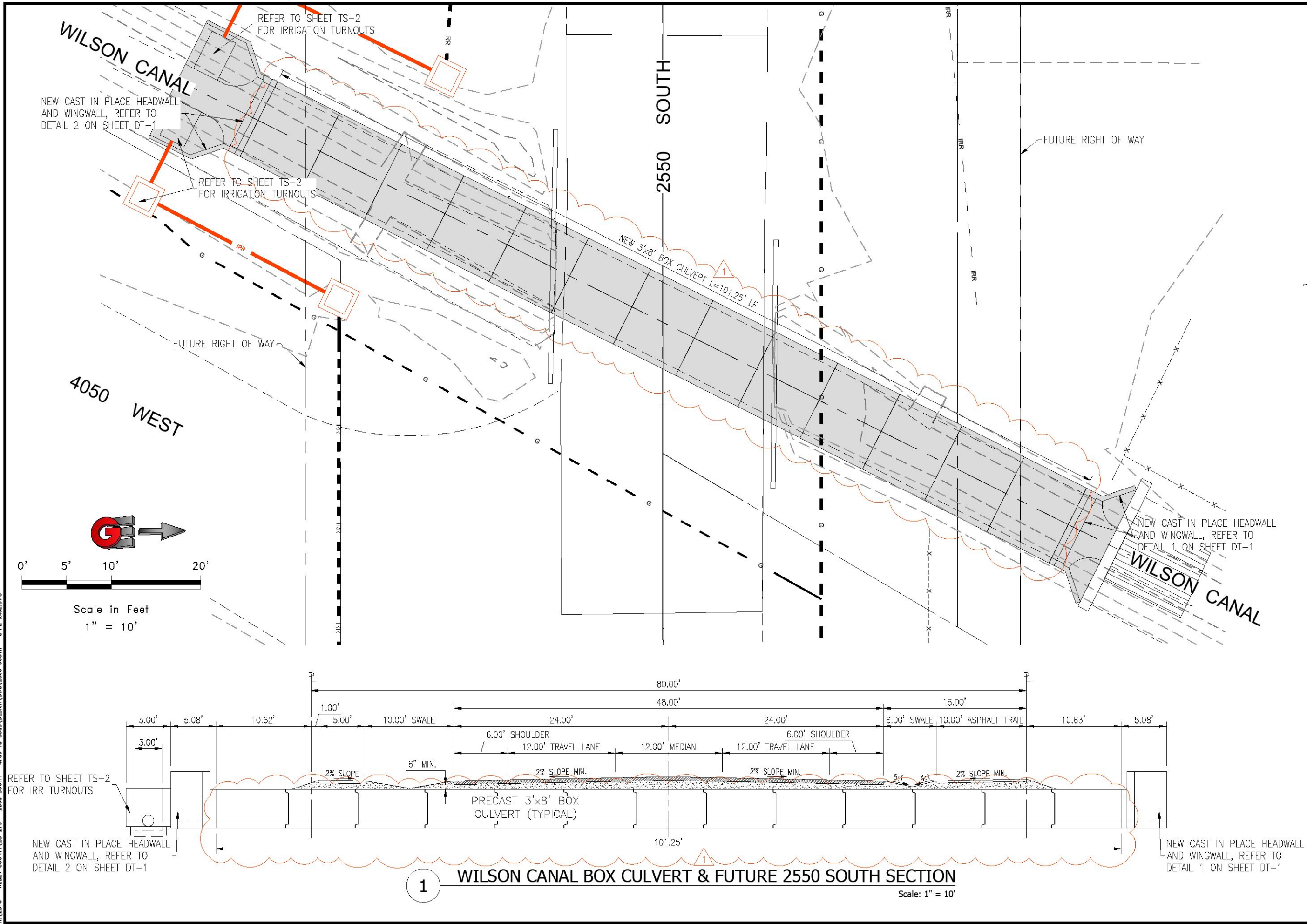


TEMPORARY 2550 SOUTH ASPHALT PATCH
2550 SOUTH IMPROVEMENT PROJECT
2550 SOUTH - 3500 WEST TO 4700 WEST
WEBER COUNTY, UTAH



SP-1

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Revisions		Date	Description
1	26/26	1/26/26	REV BOX CULVERT

Date	Scale	Designed	Drafted	Checked
1-26-2026	1" = 10'	BSD	BSD	TN

PROFESSIONAL STRUCTURAL ENGINEER

No. 4859845

TYLER M. NIELSON

LICENSED

STATE OF UTAH

WILSON CANAL BOX CULVERT SECTION

2550 SOUTH IMPROVEMENT PROJECT

2550 SOUTH - 3500 WEST TO 4700 WEST

WEBER COUNTY, UTAH

GARDNER ENGINEERING

CIVIL - LAND PLANNING

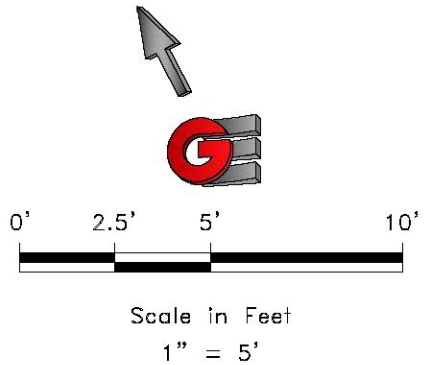
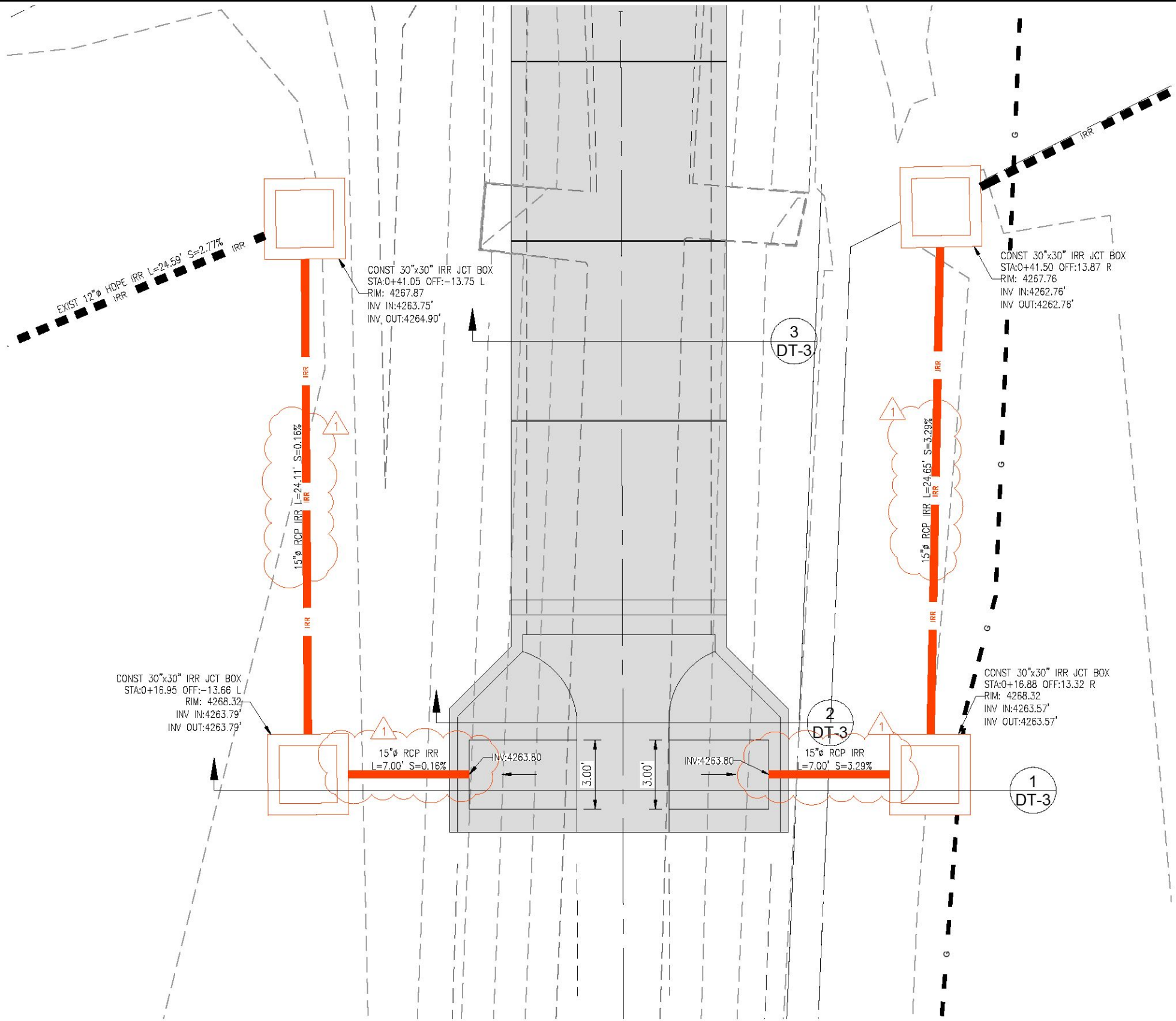
MUNICIPAL - LAND SURVEYING

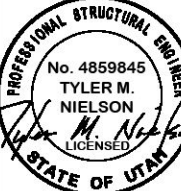
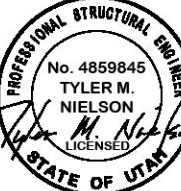
1801 W 2000, WEST HAVEN, UT 84401

P 801.470.0202 F 801.470.0008

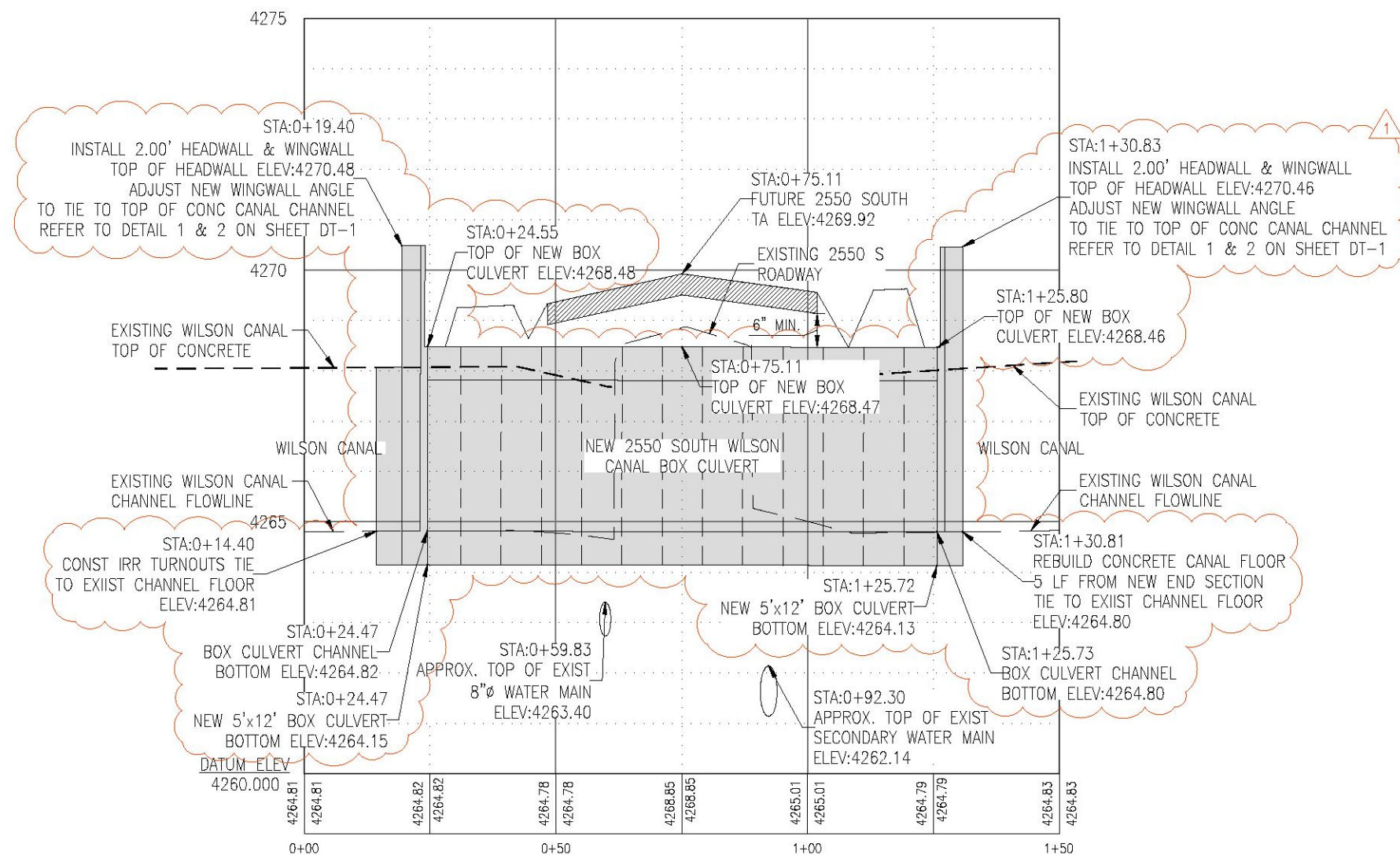
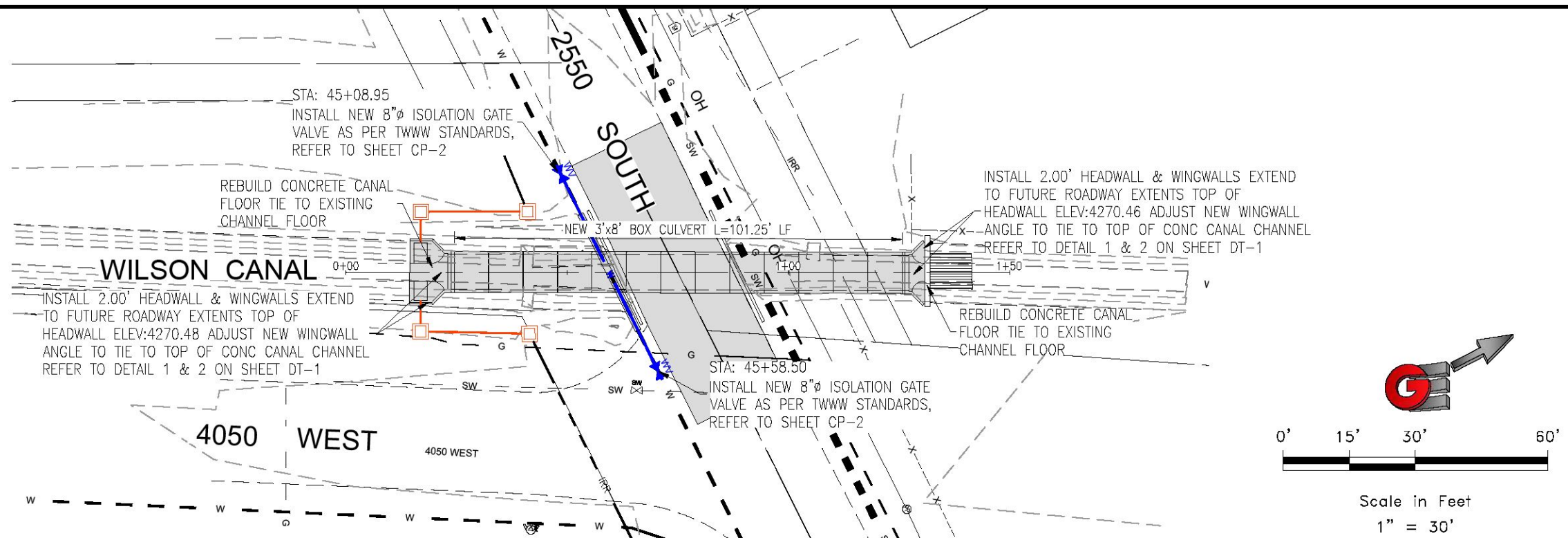
TS-1

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GARDNER ENGINEERING CIVIL • LAND PLANNING MUNICIPAL • LAND SURVEYING 4500 W 2000 S, WEST HAVEN, UT 84401 P 801.470.0202 F 801.470.0068		WILSON CANAL IRRIGATION TURNOUTS		2550 SOUTH IMPROVEMENT PROJECT		2550 SOUTH - 3500 WEST TO 4700 WEST		WEBER COUNTY, UTAH	
		Revisions		Date	Description	Date			
		1/26/26		REV IRR TURNOUTS	1/26/26				
		Designed		BDS		Designed		BDS	
		Drafted		BDS		Drafted		BDS	
		Checked		TN		Checked		TN	
TS-2		Date: 1-26-2026		Scale: 1" = 5'					

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Revisions	Date	1-26-2026
	Description	1/26/26 REV BOX CULVERT
Scale	1" = 30'	
	Designed	BSD
Drafted	BSD	
	Checked	TN

PROFESSIONAL STRUCTURAL ENGINEER

No. 4859845

TYLER M. NIELSON

LICENSED

STATE OF UTAH

WILSON CANAL PLAN & PROFILE

2550 SOUTH IMPROVEMENT PROJECT

2550 SOUTH - 3500 WEST TO 4700 WEST

WEBER COUNTY, UTAH

GARDNER ENGINEERING

CIVIL - LAND PLANNING

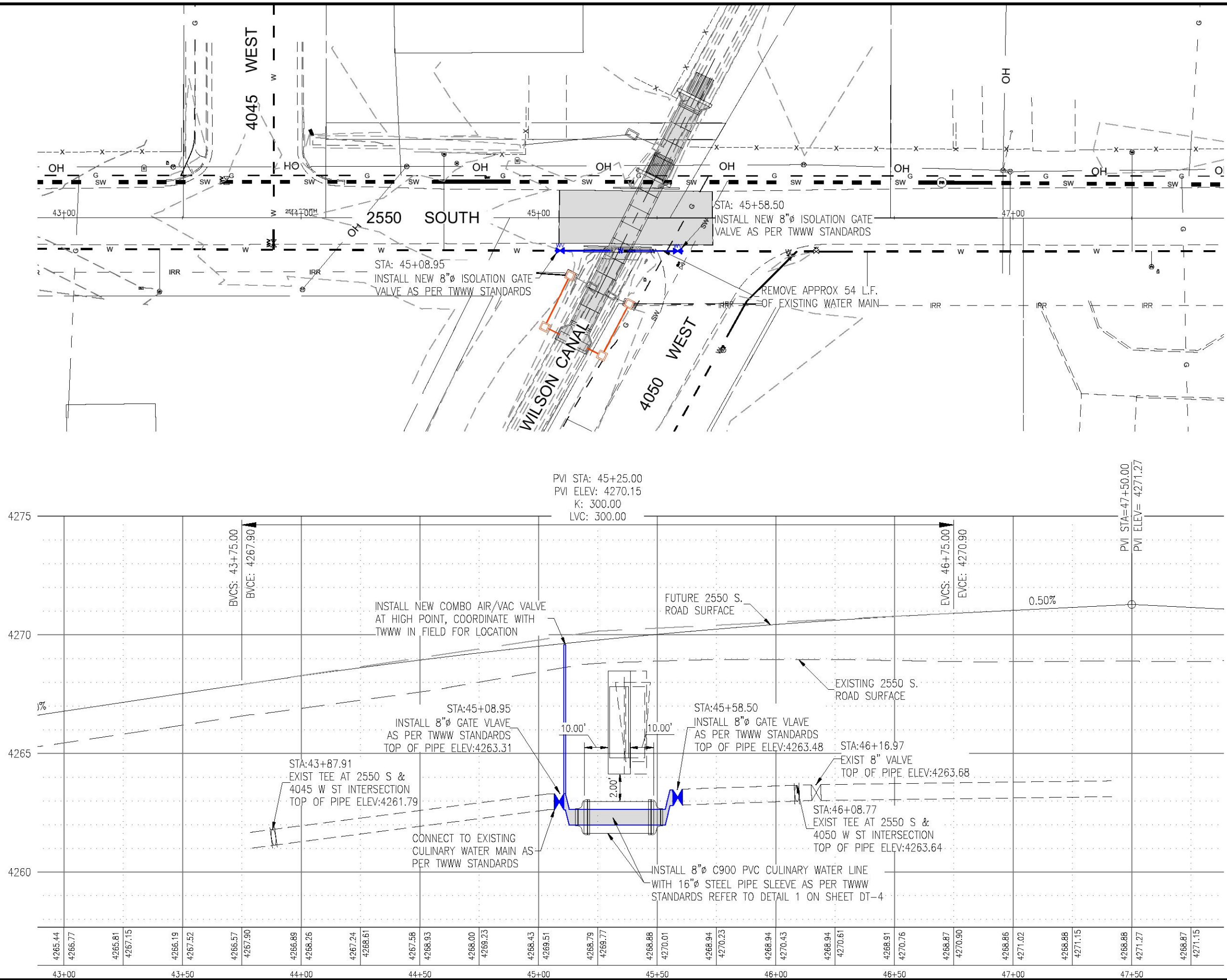
MUNICIPAL - LAND SURVEYING

1500 W 2000, WEST HAVEN, UT 84401

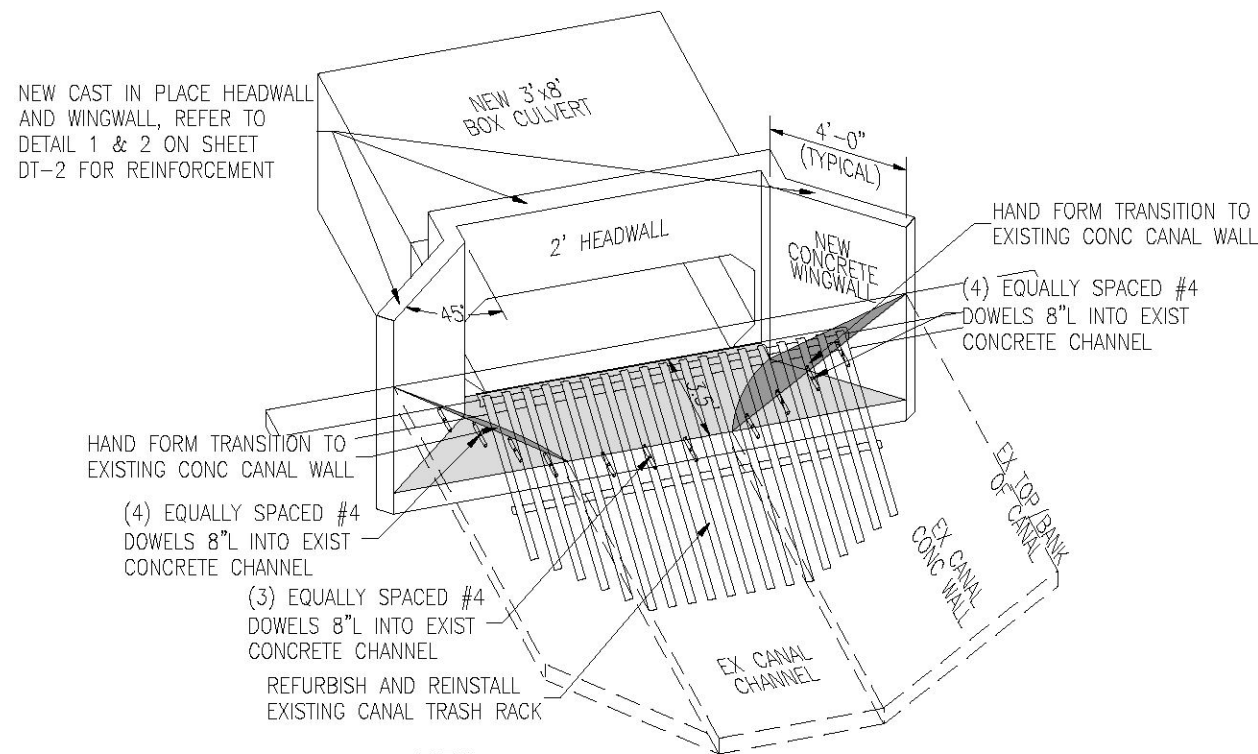
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CP-1

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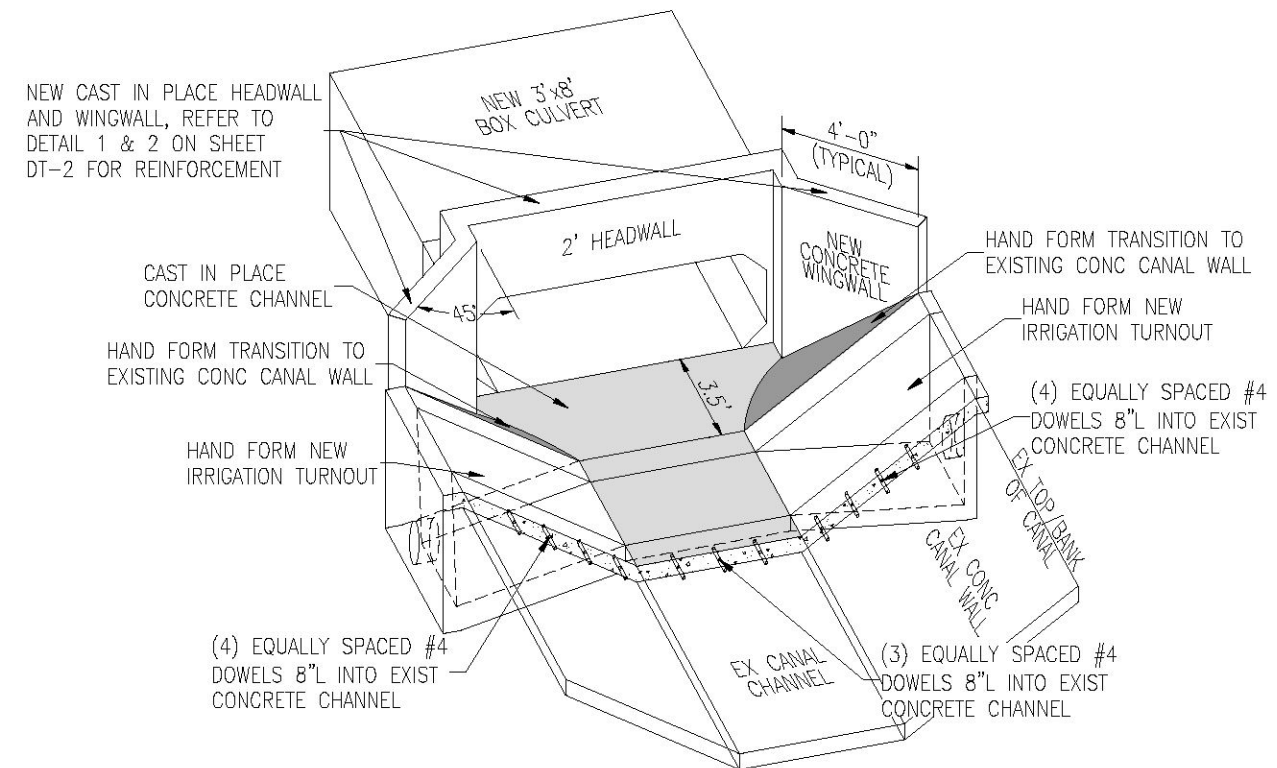
NOTES:

1. INSTALL MIRAFI 140N SEPARATION FABRIC UNDER END SECTION AND WINGWALLS AS NEEDED (OR APPROVED EQUAL)
2. INSTALL COMPACTED STRUCTURAL FILL AS NEEDED ADJACENT TO END SECTION AND WINGWALLS.
3. INSTALL 12" OF COMPACTED ROAD BASE UNDER END SECTION AND WINGWALLS.

1

NEW NORTH HEADWALL AND WINGWALL ISOMETRIC DETAIL

Scale: (NOT TO SCALE)



NOTES:

1. REFER TO SHEET TS-2 FOR NEW IRRIGATION TURNOUTS
2. INSTALL MIRAFI 140N SEPARATION FABRIC UNDER END SECTIONS AND WINGWALLS AS NEEDED (OR APPROVED EQUAL)
3. INSTALL COMPACTED STRUCTURAL FILL AS NEEDED ADJACENT TO END SECTION AND WINGWALLS.
4. INSTALL 12" OF COMPACTED ROAD BASE UNDER END SECTION AND WINGWALLS.

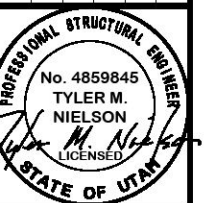
2

NEW SOUTH HEADWALL AND WINGWALL ISOMETRIC DETAIL

Scale: (NOT TO SCALE)

Date:	1-26-2026
Scale:	(AS NOTED)
Designed:	BSD
Drafted:	BSD
Checked:	TN

Revisions	Description	Date

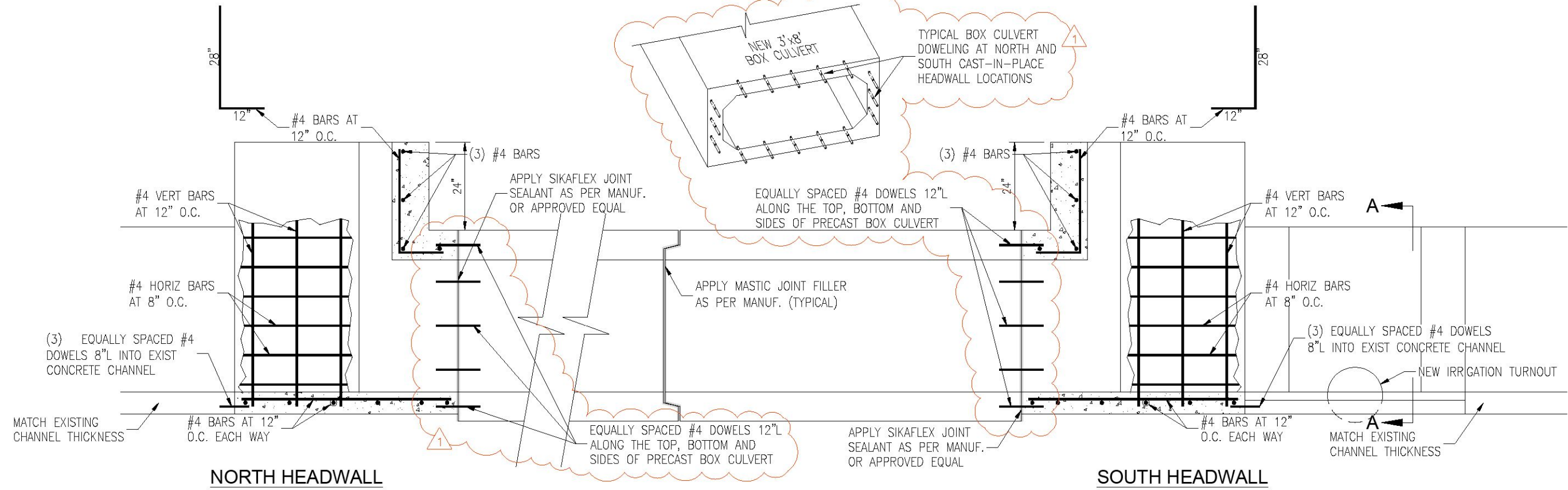


WILSON CANAL ISOMETRIC DETAILS	2550 SOUTH IMPROVEMENT PROJECT	WEBER COUNTY, UTAH
	2550 SOUTH - 3500 WEST TO 4700 WEST	

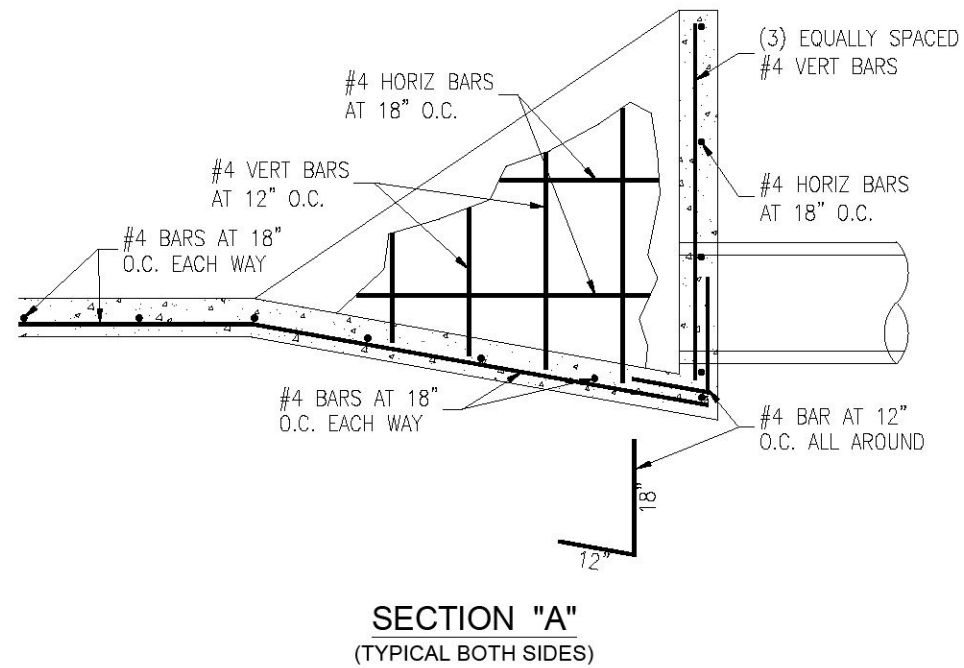
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1500 W 2000, WEST HAVEN, UT 84401
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DT-1

R:\2316 - WEBER COUNTY\25-279 - 2550 SOUTH - 4700 TO 3500\DESIGN\DWG\2550 SOUTH - CIVIL BASE.DWG

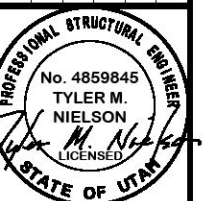


1 HEADWALL REINFORCEMENT DETAIL
Scale: (NOT TO SCALE)



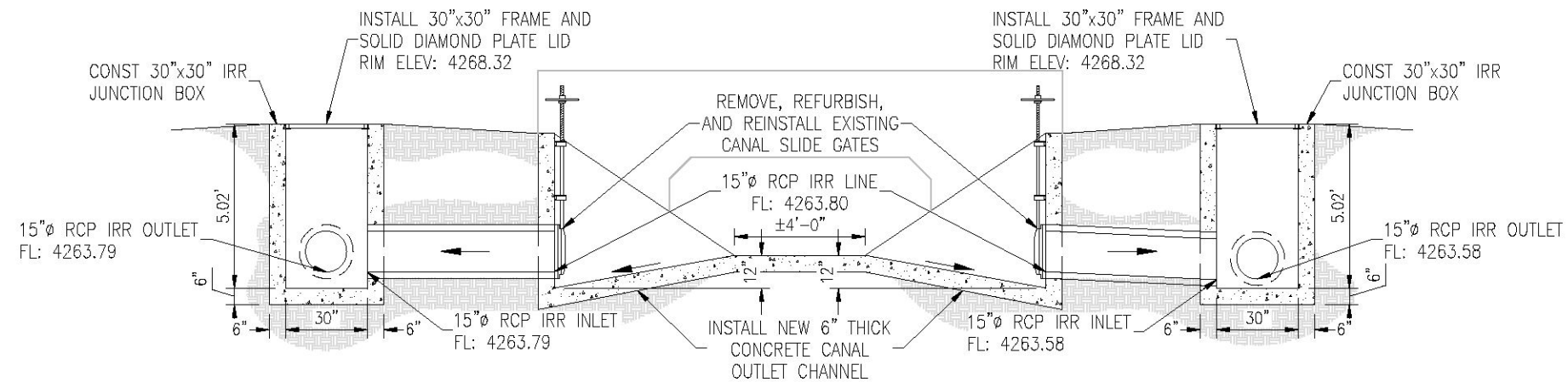
2 IRRIGATION TURNOUT REINFORCEMENT DETAIL
Scale: (NOT TO SCALE)

Revisions	Date	1-26-2026
	Scale	(AS NOTED)
	Designed	BSD
	Drafted	BSD
	Checked	TN
Date	1/26/26	
Description	ADDED DOWELING	

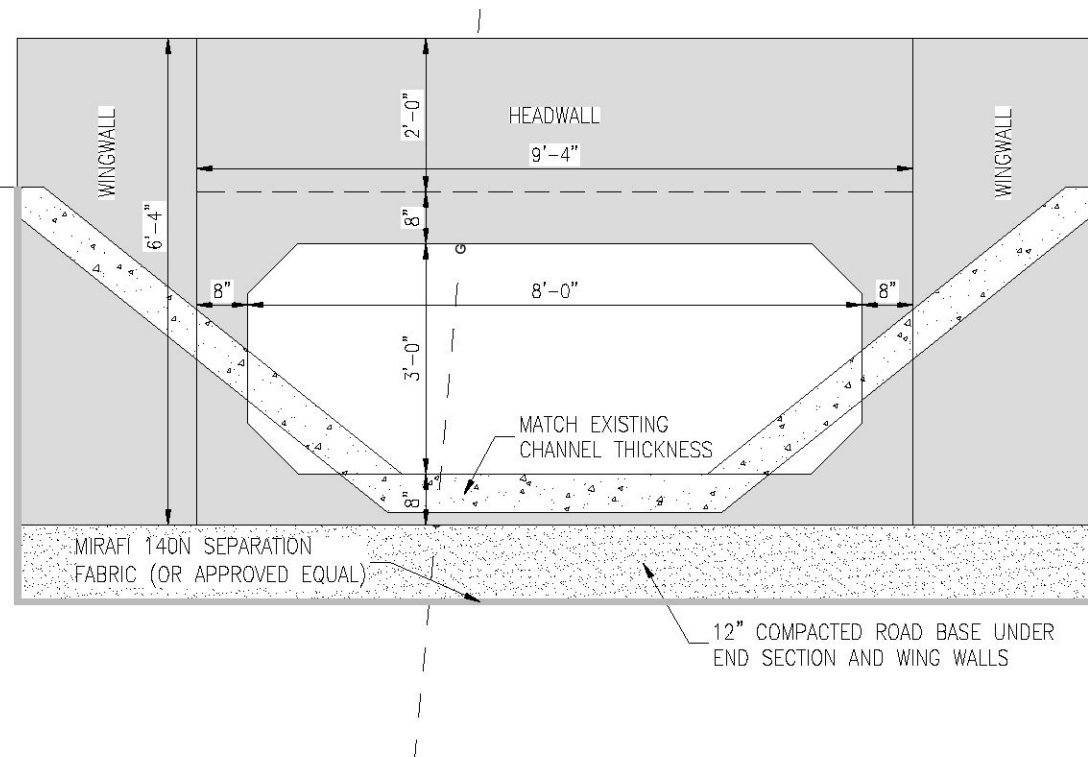


WILSON CANAL REINFORCEMENT DETAILS
2550 SOUTH IMPROVEMENT PROJECT
2550 SOUTH - 3500 WEST TO 4700 WEST
WEBER COUNTY, UTAH

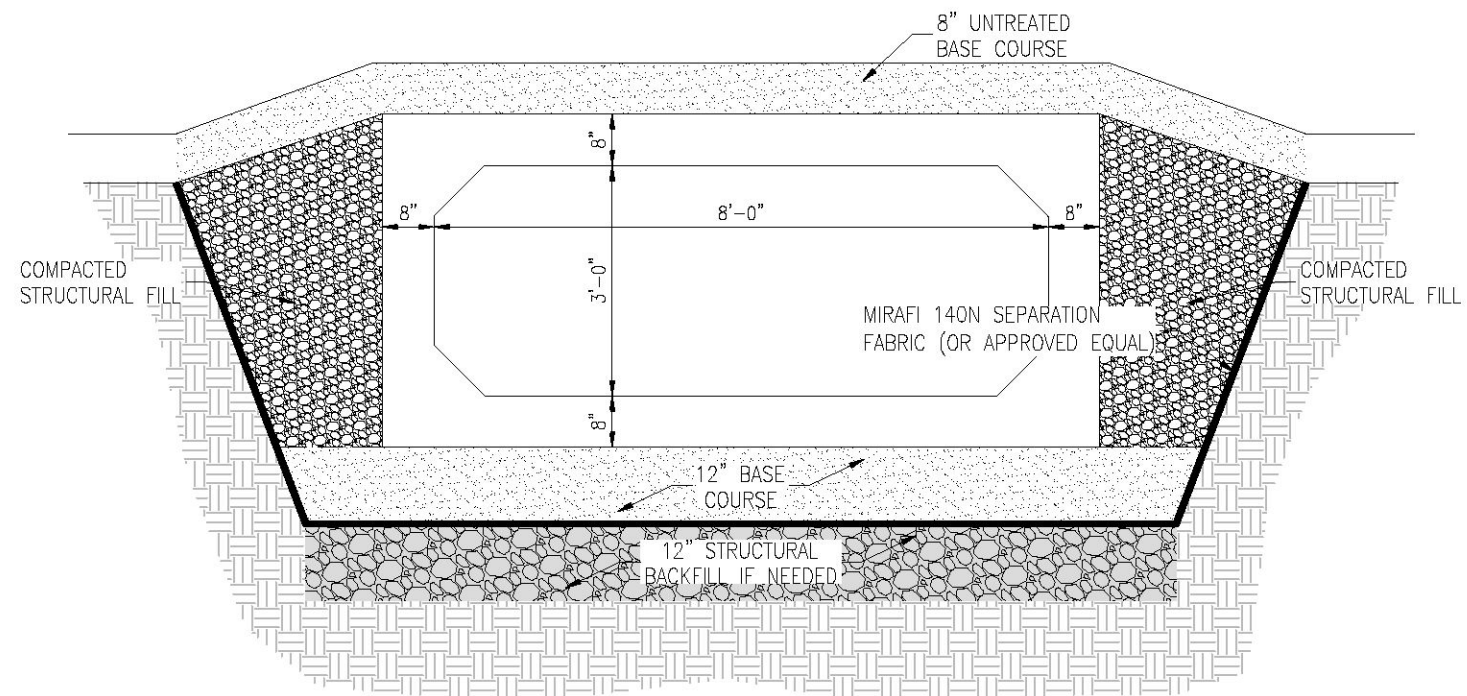
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1 IRRIGATION TURNOUT SECTION
Scale: (NOT TO SCALE)



2 HEADWALL AND WINGWALL SECTION
Scale: (NOT TO SCALE)

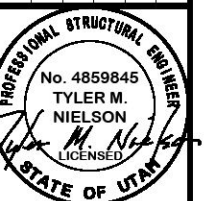


NOTE:
INSTALL STRUCTURAL FILL IN 1-FOOT LIFTS
AND COMPACT TO 96% MODIFIED PROCTOR.

3 BOX CULVERT SECTION
Scale: (NOT TO SCALE)

Date:	1-26-2026
Scale:	(AS NOTED)
Designed:	BSD
Drafted:	BSD
Checked:	TN

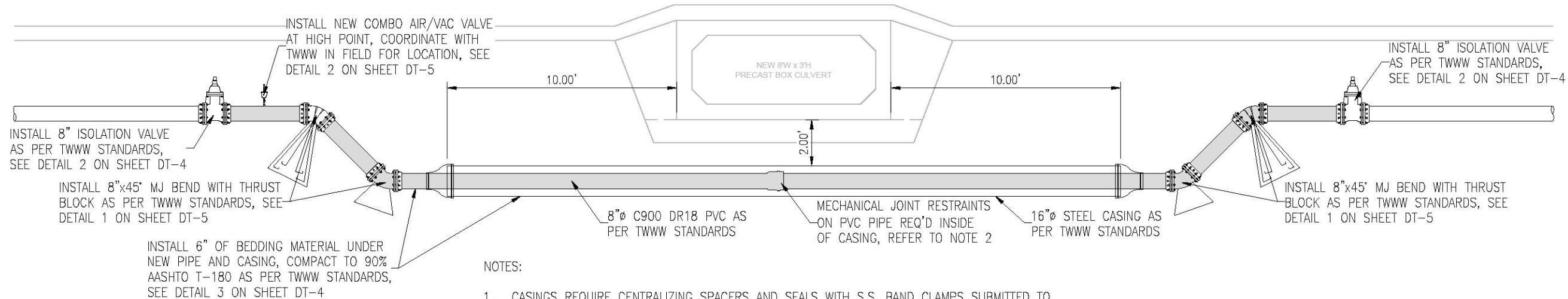
Revisions	Description	Date



WILSON CANAL DETAILS	2550 SOUTH IMPROVEMENT PROJECT	WEBER COUNTY, UTAH
	2550 SOUTH - 3500 WEST TO 4700 WEST	

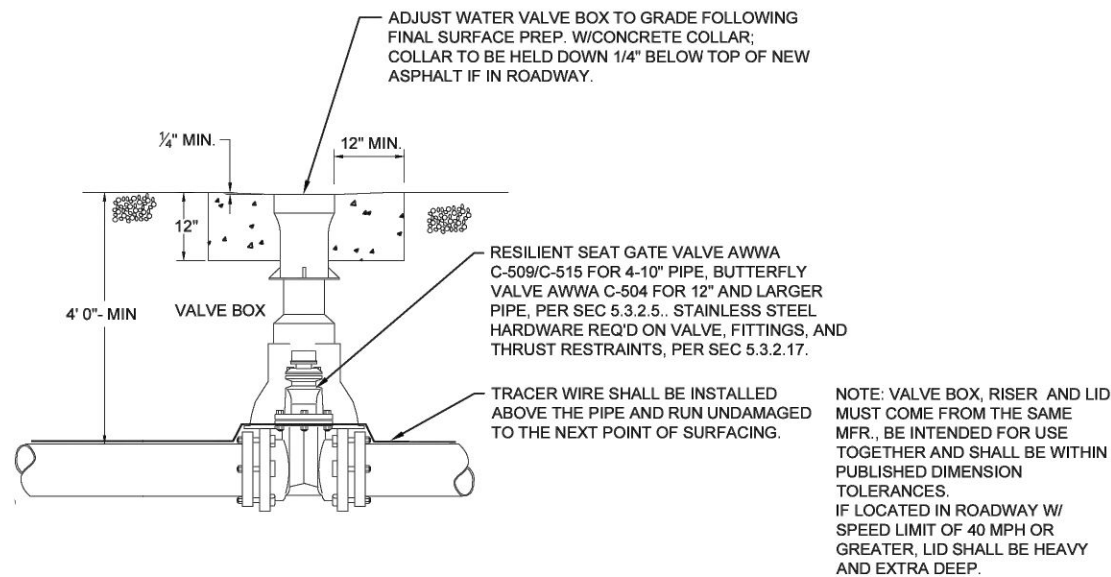
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R:\2316 - WEBER COUNTY\23-273 - 2550 SOUTH - 4700 TO 3500\DESIGN\DWG\2550 SOUTH - CIVIL BASE.DWG



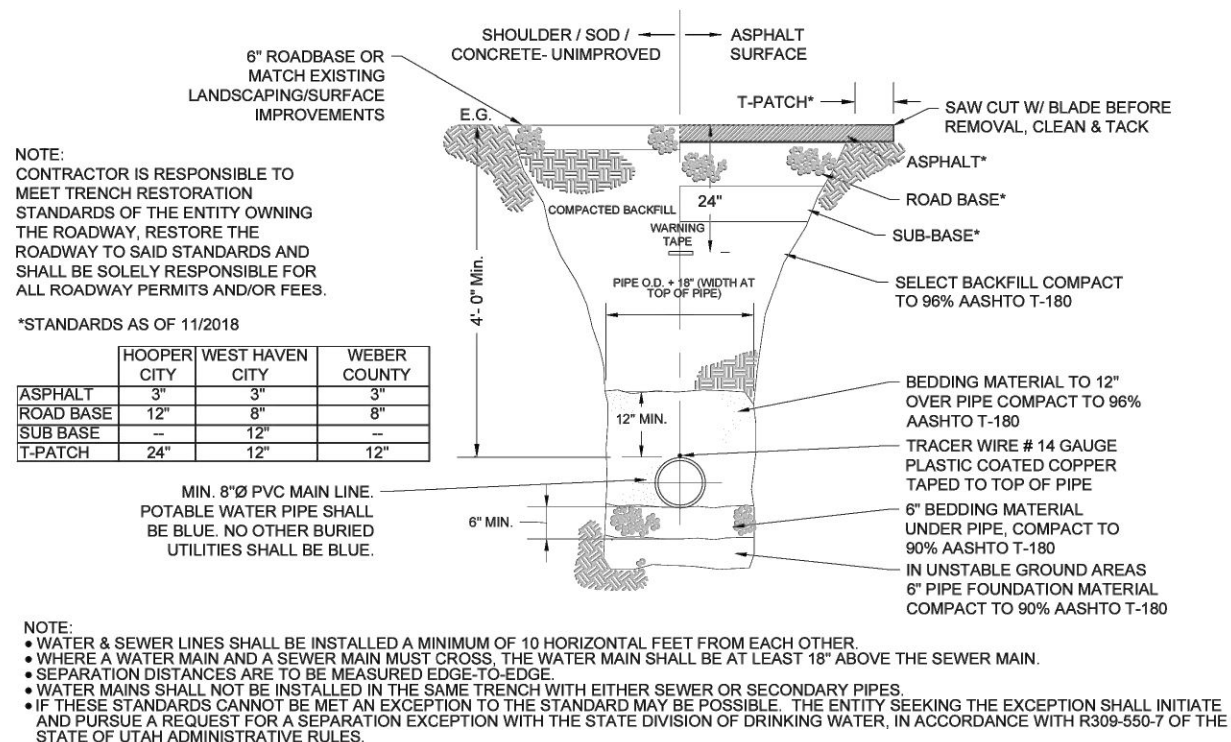
1 CULINARY WATERLINE LOOP SECTION

Scale: (NOT TO SCALE)



2 TYPICAL TWW ISOLATION GATE VALVE

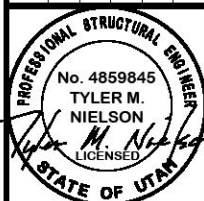
Scale: (NOT TO SCALE)



3 TYPICAL TRENCH SECTION

Scale: (NOT TO SCALE)

Date:	1-26-2026
Scale:	(AS NOTED)
Designed:	BSD
Drafted:	BSD
Checked:	TN



2550 S WATERLINE LOOP SECTION
2550 SOUTH IMPROVEMENT PROJECT
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DT-4

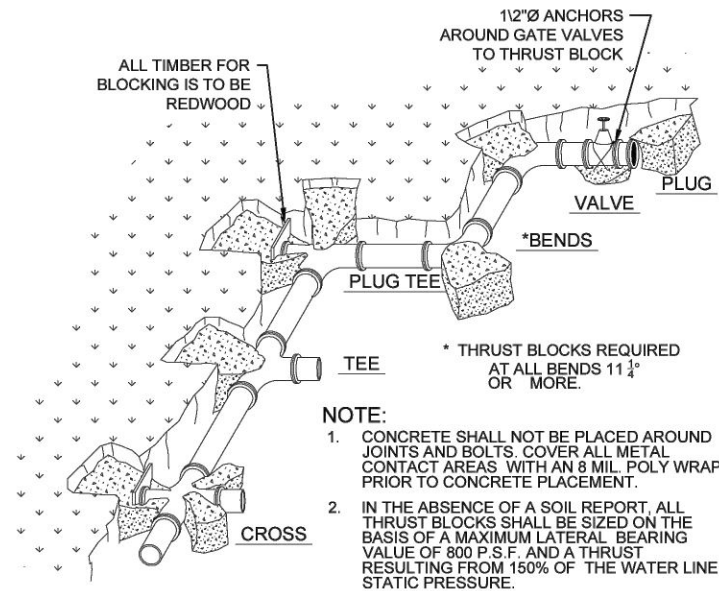
R:\2316 - WEBER COUNTY\25-273 - 2550 SOUTH - 4700 TO 3500\DESIGN\DWG\2550 SOUTH - CIVIL BASE.DWG

TABLE OF BEARING AREAS IN SQ. FT FOR CONCRETE THRUST BLOCKING

SIZE	BENDS				TEES*	GATE VALVES	DEAD ENDS	CROSSW/1BRANCH PLUGGED	CROSSW/2 BRAN. PLUGGED
	90°	45°	22 1/2°	11 1/4°					
3	1.0	0.0	0.3	0	0.7	0.5	0.7	0.7	0.7
4	1.8	1.0	0.5	0	1.3	0.5	1.3	1.3	1.3
6	4.0	2.2	1.1	0	2.8	0.7	2.8	2.8	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0	5.0	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8	7.8	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3	11.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4	15.4	15.4
15	25.0	13.5	7.0	3.5	17.6		17.6	17.6	17.6
16	28.4	15.3	8.0	4.0	20.0		20.0	20.0	20.0
18	36.0	19.4	10.0	5.0	25.4		25.4	25.4	25.4
20	44.2	24.0	12.2	6.1	31.4		31.4	31.4	31.4
21	49.0	26.5	13.5	6.8	34.6		34.6	34.6	34.6
22	54.0	29.0	14.8	7.4	38.0		38.0	38.0	38.0
24	64.0	34.5	17.7	8.8	45.0		45.0	45.0	45.0
30	100.0	54.0	27.6	13.8	71.0		71.0	71.0	71.0
36	144.0	78.0	40.0	20.0	102.0		102.0	102.0	102.0

*SIZE IS BRANCH SIZE

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1000 LBS PER SQ. FT. SOIL BEARING CAPACITY.



*ALL VALVES, TEES, CROSSES AND BENDS SHALL ALSO BE FITTED WITH MECHANICAL RESTRAINTS, SUCH AS MEGA LUG OR ROMA GRIP WITH FLUOROPOLYMER COATED BOLTS AND NUTS.

AREAS GIVEN IN TABLE ARE BASED UPON AN INTERNAL STATIC PRESSURE OF 100 P.S.I AND A SOIL BEARING CAPACITY OF 1000 LBS PER SQ. FT. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F".

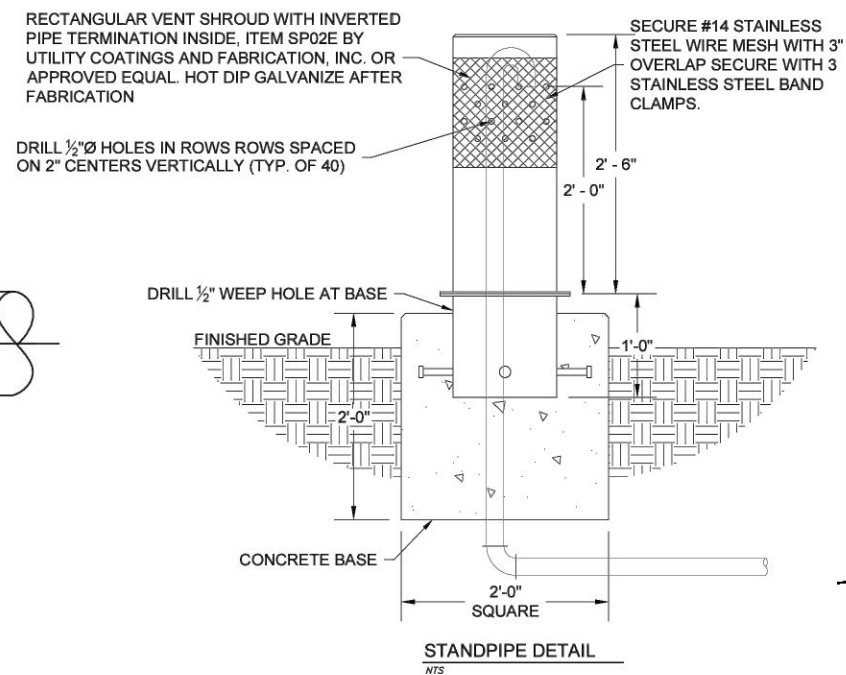
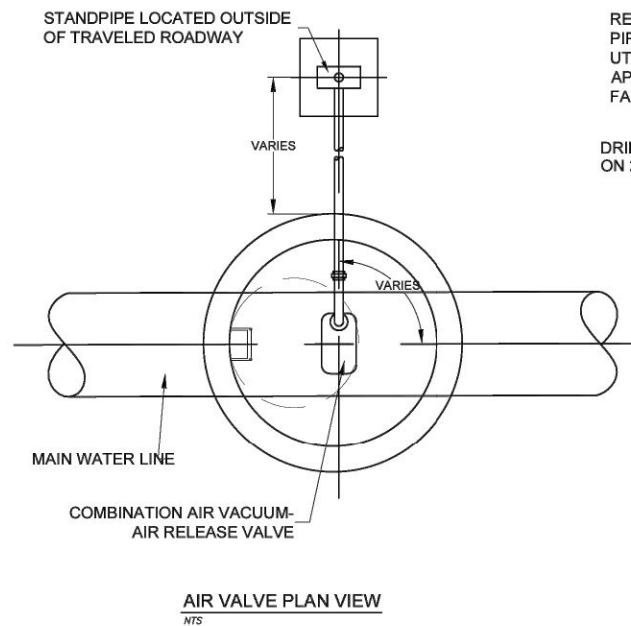
$F = \frac{\text{ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS/SQ. IN.}}{\text{ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.}}$

EXAMPLE: TO FIND BEARING AREA FOR 8"-90° BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.

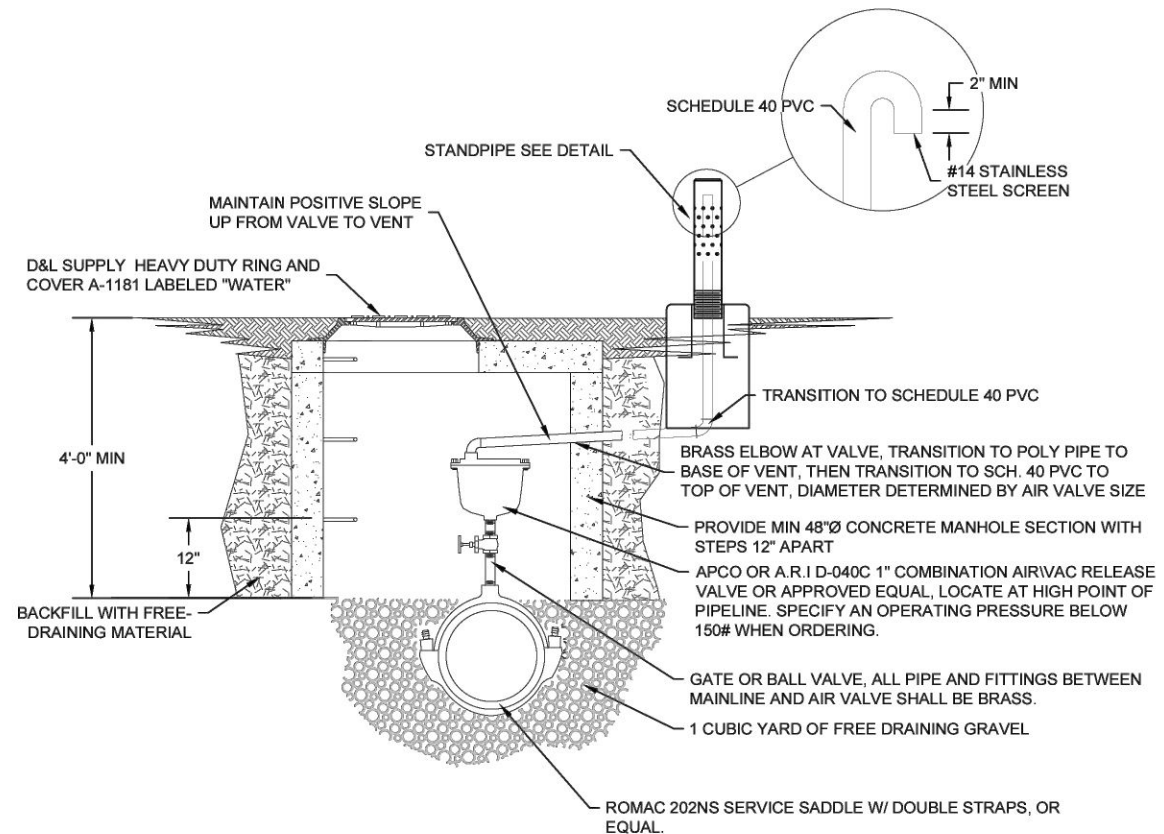
$F = 1.5 / 3 = 0.5$ TABULATED VALUE = 7.1 SQ. FT.
 $0.5 \times 7.1 = 3.56 \sim 4$ SQ. FT. (~OR 2FT. LONG BY 2FT. HIGH.)

1 TYPICAL THRUST BLOCK DETAIL

Scale: (NOT TO SCALE)



NOTES:
1. LOCATE STANDPIPE WELL OUTSIDE TRAVELED ROADWAY OR AS DIRECTED BY THE ENGINEER. INSTALL 4" STEEL PIPE FOR A 1" AIR VAC/AIR RELEASE VALVE AND 6" STEEL PIPE FOR A 2" VALVE.

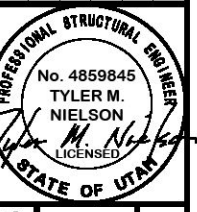


2 TYPICAL TWWW COMBINATION AIR/VAC VALVE DETAIL

Scale: (NOT TO SCALE)

Date:	1-26-2026
Scale:	(AS NOTED)
Designed:	BSD
Drafted:	BSD
Checked:	TN

Revisions	Description	Date



TAYLOR WEST WEBER WATER TYP. DETAILS
2550 SOUTH IMPROVEMENT PROJECT
2550 SOUTH - 3500 WEST TO 4700 WEST
WEBER COUNTY, UTAH

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