

January 31, 2025

ADDENDUM NO. 1

RE: Item #1, February 5, 2025 Letting - NH-CR 0046(69)288, PCN 05JN, Charles Mix County - Grading, PCC Surfacing, Storm Sewer, Curb & Gutter, Sidewalk, Lighting, Signals

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: NO CHANGE

SDEBS BID PROPOSAL: *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

Bid Items were added:

Bid Item 620E0140 "Type 4s Right-of-Way Fence"

Bid Item 620E1020 "2 Post Panel"

Quantities for Bid Items were changed:

Bid Item 009E9900 "Training Program" changed from 500 to 1,000 Hour

Bid Item 100E0020 "Clear and Grub Tree" changed from 26 to 30 each

Bid Item 110E0600 "Remove Fence" changed from 637 to 848 ft

Bid Item 110E1700 "Remove Silt Fence" changed from 1,595 to 1,600 Ft

Bid Item 120E6200 "Water Granular Material" changed from 363.1 to 363.9 MGal

Bid Item 260E1010 "Base Course" changed from 2,772.1 to 2,814.1 Ton

Bid Item 260E2010 "Gravel Cushion" changed from 2,078.8 to 2,114.8 Ton

Bid Item 320E1200 "Asphalt Concrete Composite" changed from 3,673.4 to 3,801.4 Ton

Bid Item 380E3540 "8" PCC Approach Pavement" changed from 2,184.6 to 2,332.9 SqYd

Bid Item 380E6000 "Dowel Bar" changed from 42,175 to 41,521

Bid Item 450E3002 "18" RCP Arch Class 2, Furnish" changed from 512 to 556 Ft

Bid Item 450E3010 "18" RCP Arch, Install" changed from 512 to 556 Ft

Bid Item 450E4650 "18" RCP Arch Safety End, Furnish" changed from 13 to 15 Each

Bid Item 450E4653 "18" RCP Arch Safety End, Install" changed from 13 to 15 Each

Bid Item 650E0079 "Modified Type B68 Concrete Curb and Gutter" changed from 12,740 to 12,614 Ft

Bid Item 650E4679 "Modified Type P8 Concrete Gutter" changed from 2,186 to 2,312 Ft

Bid Item 651E0040 "4" Concrete Sidewalk" changed from 81,027 to 80,197 SqFt

Bid Item 651E0540 "4" Colored Concrete Sidewalk" changed from 19,133 to 18,808 SqFt

Bid Item 734E0604 "High Flow Silt Fence" changed from 4,936 to 4,954 Ft

Bid Item 734E0610 "Mucking Silt Fence" changed from 443 to 444 CuYd

Bid Item 734E0620 "Repair Silt Fence" changed from 1,595 to 1,600 Ft

Bid Items were removed:

Bid Item 110E5800 "Salvage Fence"

PLANS: Please destroy sheets A1, A2, B2, B14, B17, B18, B19, B20, B37, B38, B39, B40, B43, B45, B47, B49, B51, B55, B59, B60, B61, B62, B63, B64, B93, B94, B104, B105, B106, D2, D3, D4, D5, D6, D7, D18, F2, F4, F6, F16, F19, F26, F27, F28, L21, L33, L34, L35, M10, M20, M21, M22, X18, X25, X28, X104, X106, X107, and Z7 and replace with the enclosed sheets, dated 10/20/24, 1/8/25, 1/13/25, 1/22/25, 1/23/25, 1/24/25 1/27/25, 1/29/25, 1/30/25. Sheets B140A, B140B, B140C, and L47A were added.

Sheets A1 & B2: Bid Items were added:

Bid Item 620E0140 "Type 4s Right-of-Way Fence"

Bid Item 620E1020 "2 Post Panel"

Quantities for Bid Items were changed:

Bid Item 100E0020 "Clear and Grub Tree" changed from 26 to 30 each

Bid Item 110E0600 "Remove Fence" changed from 637 to 848 ft

Bid Item 380E3540 "8" PCC Approach Pavement" changed from 2,184.6 to 2,332.9 SqYd

Bid Item 450E3002 "18" RCP Arch Class 2, Furnish" changed from 512 to 556 Ft

Bid Item 450E3010 "18" RCP Arch, Install" changed from 512 to 556 Ft

Bid Item 450E4650 "18" RCP Arch Safety End, Furnish" changed from 13 to 15 Each

Bid Item 450E4653 "18" RCP Arch Safety End, Install" changed from 13 to 15 Each

Bid Item 650E0079 "Modified Type B68 Concrete Curb and Gutter" changed from 12,740 to 12,614 Ft

Bid Item 650E4679 "Modified Type P8 Concrete Gutter" changed from 2,186 to 2,312 Ft

Bid Item 651E0040 "4" Concrete Sidewalk" changed from 81,027 to 80,197 SqFt

Bid Item 651E0540 "4" Colored Concrete Sidewalk" changed from 19,133 to 18,808 SqFt

Bid Items were removed:

Bid Item 110E5800 "Salvage Fence".

Sheets A2 & D2: Quantities for Bid Items were changed:

Bid Item 110E1700 "Remove Silt Fence" changed from 1,595 to 1,600 Ft

Bid Item 734E0604 "High Flow Silt Fence" changed from 4,936 to 4,954 Ft

Bid Item 734E0610 "Mucking Silt Fence" changed from 443 to 444 CuYd

Bid Item 734E0620 "Repair Silt Fence" changed from 1,595 to 1,600 Ft

Sheets A2 & F2: **Quantities for Bid Items were changed:**
Bid Item 120E6200 "Water Granular Material" changed from 363.1 to 363.9 MGal
Bid Item 260E1010 "Base Course" changed from 2,772.1 to 2,814.1 Ton
Bid Item 260E2010 "Gravel Cushion" changed from 2,078.8 to 2,114.8 Ton
Bid Item 320E1200 "Asphalt Concrete Composite" changed from 3,673.4 to 3,801.4 Ton
Bid Item 380E6000 "Dowel Bar" changed from 42,175 to 41,521

Sheets B14 & B17: PIPE QUANTITIES table was revised.

Sheet B18: FENCE QUANTITIES table was revised.

Sheets B19 & B20: PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES table was revised.

Sheet B37 32' Drive at station 37+86 L was added. Elim Ent note at station 37+86 L was removed. Install 18"-44' RCP Arch & 2 Safety Ends pipe note at station 37+86-69' L was added. Revised Do Not Disturb note from Sign to Auto Parts Sign.

Sheet B38: 32' Drive note at station 37+86 L was added.

Sheet B39: Elim Ent note at station 39+08 L was added. Elim Ent note at station 40+29 L was removed. Drive at 39+08 L was removed. Elim Ent note at 39+08 L was added. 32' Drive at station 40+29 L was added. Adjusted pipe from 38+85-69' L to 40+29-69' L. Revised Do Not Disturb note at 39+52-76' L to "Restaurant Sign" from "Sign". Revised Do Not Disturb note at 41+34-75' L to "Hospital Sign" from "Sign".

Sheet B40: 32' Drive note at station 40+29 L was added.

Sheet B43: "54+38 to 56+19 R, Existing fence will be salvaged, materials will remain the landowner's property and will be stockpiled on the parcel" note was removed. Type 4 ROW Fence and Post Panels from 54+42R to 56+16R was added.

Sheet B45: Do Not Disturb Maple Tree note at station 58+90 R was added, and Do Not Disturb notes for trees at 58+38-41' L and 58+71-43' L was removed.

Sheet B47: Do Not Disturb Bush note at station 62+65-38' R was added.

Sheet B49: Temporary Easement on Parcel 16 changed from 1,717 to 1,503 SqFt and Do Not Disturb Vacuums note at station 68+10 L and 68+50 L was added.

Sheet B51: Do Not Disturb Plum Tree note at station 75+50 R was added.

Sheet B55: Do Not Disturb Flag Pole and Fence note at station 91+10 R was added.

Sheet B59: 40' Drive at station 100+56 R was added and Temporary Easement on Parcel 41 changed from 8,776 to 6,746 SqFt.

Sheet B60: 40' Drive note at station 100+56 L was added.

Sheet B61: 24' Drive at station 104+11 L was added.

Sheet B62: 24' Drive note at station 104+11 L as added.

Sheet B63: Elim Ent note at station 111+02 R was removed and 30' Drive at station 111+27 R was added.

Sheet B64: 30' Drive note at station 111+27 R was added.

Sheets B93, B94, B104, B105 & B106: CURB AND GUTTER LAYOUT was revised.

Sheet B140A, B140B & B140C: Standard plates were added.

Sheet D2: MYCORRHIZAL INOCULUM note was revised. TABLE OF FIBER MULCHING was moved from Sheet D3.

Sheet D3 – D7: TABLE OF FIBER MULCHING was moved to Sheet D2. FERTILIZING, and SOIL STABILIZER notes were revised. Note placement was adjustment.

Sheet D18: Install High Flow Silt Fence and Erosion Control Blankets note for additional pipes were added.

Sheet F4: TABLE OF DOWEL BARS was revised.

Sheet F6: TABLE OF MATERIALS QUANTITIES was revised.

Sheets F16, F19, F26, F27 & F28: PCC PAVEMENT JOINT LAYOUTS were revised.

Sheets L21, L33, L34 & L35: CONDUIT LAYOUT was revised. L20 location was revised from Sta 40+40-37'L to 40+55-37'L. Sheets were revised to show location of new and removed driveways.

Sheet L47A: Rectangular Rapid Flashing Beacons & Signs Special Detail was added.

Sheets M10, M20, M21 & M22: PAVEMENT MARKINGS were revised to show location of new and removed driveways.

Sheet X18: 30' Drive at station 111+27 R was added.

Sheet X25: 24' Drive at station 104+11 L was added.

Sheet X28: 40' Drive at station 100+56 R was added.

Sheet X104: 32' Drive at station 40+29 L was added.

Sheet X106: Proposed 40' Drive at station 38+85 L was removed.

Sheet X107: 32' Drive at station 37+86 L was added.

Sheet Z7: Pipe at Station 37+86-69' L and Pipe at Station 40+29-69' L were added and Pipe at 38+85-69' L was removed

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Travis Dressen, Mitchell Region Engineer
Jay Peppel, Mitchell Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	A1	A7

Plotting Date: 01/30/2025 Revised 01-13-2025 JWF

Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	179	Each
009E3225	Reestablish Public Land Survey System Corner	4	Each
009E3230	Grade Staking	8,232	Mile
009E3250	Miscellaneous Staking	2,154	Mile
009E3280	Slope Staking	2,154	Mile
009E3290	Structure Staking	1	Each
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	26	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	6,590	Ft
110E0400	Remove Drop Inlet	64	Each
110E0460	Remove Manhole	1	Each
110E0600	Remove Fence	848	Ft
110E1010	Remove Asphalt Concrete Pavement	42,037.8	SqYd
110E1100	Remove Concrete Pavement	28,691.4	SqYd
110E1130	Remove Concrete Driveway Pavement	5,371.5	SqYd
110E1140	Remove Concrete Sidewalk	4,187.7	SqYd
110E7800	Remove Chain Link Fence for Reset	55	Ft
120E0010	Unclassified Excavation	83,962	CuYd
120E0600	Contractor Furnished Borrow Excavation	25,365	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E1000	Muck Excavation	343	CuYd
120E2000	Undercutting	56,132	CuYd
120E6100	Water for Embankment	898.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	5,612.5	Ton
270E0110	Salvage and Stockpile Granular Material	21,803.0	Ton
380E3520	6" PCC Approach Pavement	711.9	SqYd
380E3540	8" PCC Approach Pavement	2,332.9	SqYd
380E4050	8" PCC Fillet Section	1,100.0	SqYd
421E0100	Pipe Culvert Undercut	31	CuYd
450E0122	18" RCP Class 2, Furnish	3,984	Ft
450E0130	18" RCP, Install	3,984	Ft
450E0142	24" RCP Class 2, Furnish	584	Ft
450E0150	24" RCP, Install	584	Ft
450E0162	30" RCP Class 2, Furnish	1,374	Ft
450E0170	30" RCP, Install	1,374	Ft
450E0182	36" RCP Class 2, Furnish	1,394	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E0190	36" RCP, Install	1,394	Ft
450E0192	42" RCP Class 2, Furnish	704	Ft
450E0200	42" RCP, Install	704	Ft
450E0203	48" RCP Class 3, Furnish	2,730	Ft
450E0210	48" RCP, Install	2,730	Ft
450E0408	18" RCP Bend, Furnish	1	Each
450E0409	18" RCP Bend, Install	1	Each
450E0700	RCP Tee, Furnish	9	Each
450E0701	RCP Tee, Install	9	Each
450E2028	36" RCP Flared End, Furnish	2	Each
450E2029	36" RCP Flared End, Install	2	Each
450E2036	48" RCP Flared End, Furnish	1	Each
450E2037	48" RCP Flared End, Install	1	Each
450E2304	18" RCP Safety End, Furnish	19	Each
450E2307	18" RCP Safety End, Install	19	Each
450E2308	24" RCP Safety End, Furnish	6	Each
450E2311	24" RCP Safety End, Install	6	Each
450E3002	18" RCP Arch Class 2, Furnish	556	Ft
450E3010	18" RCP Arch, Install	556	Ft
450E3012	24" RCP Arch Class 2, Furnish	280	Ft
450E3020	24" RCP Arch, Install	280	Ft
450E4600	24" RCP Arch Sloped End, Furnish	6	Each
450E4601	24" RCP Arch Sloped End, Install	6	Each
450E4650	18" RCP Arch Safety End, Furnish	15	Each
450E4653	18" RCP Arch Safety End, Install	15	Each
462E0100	Class M6 Concrete	309.2	CuYd
470E0020	Pipe Handrail	54.7	Ft
480E0100	Reinforcing Steel	54,539	Lb
480E0200	Epoxy Coated Reinforcing Steel	418	Lb
530E0300	Type C Concrete Retaining Wall	195	SqFt
600E0300	Type III Field Laboratory	1	Each
620E0140	Type 4s Right-of-Way Fence	209	Ft
620E1020	2 Post Panel	7	Each
621E0520	Reset Chain Link Fence	55	Ft
650E0079	Modified Type B68 Concrete Curb and Gutter	12,614	Ft
650E0080	Type B68 Concrete Curb and Gutter	2,321	Ft
650E1079	Modified Type F68 Concrete Curb and Gutter	4,230	Ft
650E1080	Type F68 Concrete Curb and Gutter	175	Ft
650E3060	Type B6 Concrete Curb	47	Ft
650E4379	Modified Type D48 Concrete Curb and Gutter	87	Ft
650E4380	Type D48 Concrete Curb and Gutter	9	Ft
650E4679	Modified Type P8 Concrete Gutter	2,312	Ft
650E4680	Type P8 Concrete Gutter	123	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
651E0040	4" Concrete Sidewalk	80,197	SqFt
651E0140	4" Reinforced Concrete Sidewalk	2,449	SqFt
651E0540	4" Colored Concrete Sidewalk	18,808	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	636	SqFt
651E5000	Sidewalk Drain	21.4	Ft
651E7000	Type 1 Detectable Warnings	1,103	SqFt
670E1030	5.5' x 3' Type B Drop Inlet	6	Each
670E1200	Type B Frame and Grate	57	Each
670E2200	Type C Frame and Grate	14	Each
670E4448	7' x 11' Concrete Type S Drop Inlet Base	4	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	36	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	31	Each
670E5400	Precast Drop Inlet Collar	57	Each
671E1096	96" Manhole	1	Each
671E5502	2" Adjusting Ring for Manhole	2	Each
671E6009	Type A9 Manhole Frame and Lid	1	Each
720E1010	PVC Coated Bank and Channel Protection Gabion	12.0	CuYd
831E0110	Type B Drainage Fabric	34	SqYd
900E0010	Refurbish Single Mailbox	1	Each
900E0012	Refurbish Double Mailbox	2	Each

INDEX OF SHEETS

A1 and A3 Estimate of Quantities for Sections B, C, D, F, L, M, and S
A4 to A7 Environmental Commitments

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	A2	A7

Plotting Date: 01/30/2025 Revised 1-30-2025 JWF

Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	500.0	Hour
634E0110	Traffic Control Signs	1,351.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	56	Each
634E0330	Temporary Raised Pavement Markers	32,900	Ft
634E0380	Tubular Marker	30	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	12,350	Ft
634E0640	Temporary Pavement Marking	25,220	Ft
634E0650	Temporary Pavement Marking	269	Gal
634E1002	Detour and Restriction Signing	741.0	SqFt
634E1020	Temporary Business Signing	204.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each
634E2000	Longitudinal Pedestrian Barricade	7,500	Ft
634E2020	Temporary Curb Ramp	12	Each
634E2025	Longitudinal Pedestrian Barrier	7,500	Ft
634E2052	Temporary Flexible Sidewalk	2,500	SqFt
634E3000	Traffic Control Barrier	5,994	Ft
634E3000	Traffic Control Barrier	4,500	Ft
634E3000	Traffic Control Barrier	4,439	Ft
634E3030	Reset Traffic Control Barrier	14,933	Ft
900E1080	Orange Plastic Safety Fence	12,300	Ft

Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	37.7	CuYd
110E1693	Remove Erosion Control Wattle	98	Ft
110E1695	Remove Sediment Filter Bag	5,516	Ft
110E1700	Remove Silt Fence	1,600	Ft
120E6300	Water for Vegetation	397.0	MGal
230E0010	Placing Topsoil	3,749	CuYd
730E0100	Cover Crop Seeding	2.4	Bu
730E0206	Type D Permanent Seed Mixture	1,390	Lb
730E0212	Type G Permanent Seed Mixture	63	Lb
731E0200	Fertilizing	3.60	Ton
732E0100	Mulching	4.8	Ton
732E0200	Fiber Mulching	8.3	Ton
734E0044	Soil Stabilizer	3.5	Acre
734E0103	Type 3 Erosion Control Blanket	2,052	SqYd
734E0154	12" Diameter Erosion Control Wattle	390	Ft
734E0165	Remove and Reset Erosion Control Wattle	98	Ft
734E0180	Sediment Filter Bag	5,516	Ft
734E0185	Remove and Reset Sediment Filter Bag	1,379	Ft
734E0510	Shaping for Erosion Control Blanket	812	Ft
734E0602	Low Flow Silt Fence	1,445	Ft
734E0604	High Flow Silt Fence	4,954	Ft
734E0610	Mucking Silt Fence	444	CuYd
734E0620	Repair Silt Fence	1,600	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	77	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	760	Ft
734E5005	Dewatering	Lump Sum	LS
734E5010	Sweeping	20	Hour
900E1320	Construction Entrance	2	Each

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
120E6200	Water for Granular Material	363.9	MGal
260E1010	Base Course	2,814.1	Ton
260E1030	Base Course, Salvaged	2,285.0	Ton
260E2010	Gravel Cushion	2,114.8	Ton
260E2030	Gravel Cushion, Salvaged	21,803.0	Ton
260E3500	Temporary Gravel Surfacing	1,371.0	Ton
320E1200	Asphalt Concrete Composite	3,801.4	Ton
380E0050	8" Nonreinforced PCC Pavement	60,488.6	SqYd
380E0800	PCC Shoulder Pavement	751.8	SqYd
380E3020	6" PCC Driveway Pavement	292.8	SqYd
380E3040	8" PCC Driveway Pavement	4,137.5	SqYd
380E6000	Dowel Bar	41,521	Each
380E6110	Insert Steel Bar in PCC Pavement	260	Each
831E0300	Reinforcement Fabric (MSE)	6,390	SqYd

1:200

Plot Scale -

Plotted From -

TRSE12139

File - ...:\p\cm\k05\NWNotesSectionA.dgn

SECTION B ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	179	Each
009E3225	Reestablish Public Land Survey System Corner	4	Each
009E3230	Grade Staking	8,232	Mile
009E3250	Miscellaneous Staking	2,154	Mile
009E3280	Slope Staking	2,154	Mile
009E3290	Structure Staking	1	Each
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	30	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and/or Gutter	6,590	Ft
110E0400	Remove Drop Inlet	64	Each
110E0460	Remove Manhole	1	Each
110E0600	Remove Fence	848	Ft
110E1010	Remove Asphalt Concrete Pavement	42,037.8	SqYd
110E1100	Remove Concrete Pavement	28,691.4	SqYd
110E1130	Remove Concrete Driveway Pavement	5,371.5	SqYd
110E1140	Remove Concrete Sidewalk	4,187.7	SqYd
110E7800	Remove Chain Link Fence for Reset	55	Ft
120E0010	Unclassified Excavation	83,962	CuYd
120E0600	Contractor Furnished Borrow Excavation	25,365	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E1000	Muck Excavation	343	CuYd
120E2000	Undercutting	56,132	CuYd
120E6100	Water for Embankment	898.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	5,612.5	Ton
270E0110	Salvage and Stockpile Granular Material	21,803.0	Ton
380E3520	6" PCC Approach Pavement	711.9	SqYd
380E3540	8" PCC Approach Pavement	2,332.9	SqYd
380E4050	8" PCC Fillet Section	1,100.0	SqYd
421E0100	Pipe Culvert Undercut	31	CuYd
450E0122	18" RCP Class 2, Furnish	3,984	Ft
450E0130	18" RCP, Install	3,984	Ft
450E0142	24" RCP Class 2, Furnish	584	Ft
450E0150	24" RCP, Install	584	Ft
450E0162	30" RCP Class 2, Furnish	1,374	Ft
450E0170	30" RCP, Install	1,374	Ft
450E0182	36" RCP Class 2, Furnish	1,394	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E0190	36" RCP, Install	1,394	Ft
450E0192	42" RCP Class 2, Furnish	704	Ft
450E0200	42" RCP, Install	704	Ft
450E0203	48" RCP Class 3, Furnish	2,730	Ft
450E0210	48" RCP, Install	2,730	Ft
450E0408	18" RCP Bend, Furnish	1	Each
450E0409	18" RCP Bend, Install	1	Each
450E0700	RCP Tee, Furnish	9	Each
450E0701	RCP Tee, Install	9	Each
450E2028	36" RCP Flared End, Furnish	2	Each
450E2029	36" RCP Flared End, Install	2	Each
450E2036	48" RCP Flared End, Furnish	1	Each
450E2037	48" RCP Flared End, Install	1	Each
450E2304	18" RCP Safety End, Furnish	19	Each
450E2307	18" RCP Safety End, Install	19	Each
450E2308	24" RCP Safety End, Furnish	6	Each
450E2311	24" RCP Safety End, Install	6	Each
450E3002	18" RCP Arch Class 2, Furnish	556	Ft
450E3010	18" RCP Arch, Install	556	Ft
450E3012	24" RCP Arch Class 2, Furnish	280	Ft
450E3020	24" RCP Arch, Install	280	Ft
450E4600	24" RCP Arch Sloped End, Furnish	6	Each
450E4601	24" RCP Arch Sloped End, Install	6	Each
450E4650	18" RCP Arch Safety End, Furnish	15	Each
450E4653	18" RCP Arch Safety End, Install	15	Each
462E0100	Class M6 Concrete	309.2	CuYd
470E0020	Pipe Handrail	54.7	Ft
480E0100	Reinforcing Steel	54,539	Lb
480E0200	Epoxy Coated Reinforcing Steel	418	Lb
530E0300	Type C Concrete Retaining Wall	195	SqFt
600E0300	Type III Field Laboratory	1	Each
620E0140	Type 4s Right-of-Way Fence	209	Ft
620E1020	2 Post Panel	7	Each
621E0520	Reset Chain Link Fence	55	Ft
650E0079	Modified Type B68 Concrete Curb and Gutter	12,614	Ft
650E0080	Type B68 Concrete Curb and Gutter	2,321	Ft
650E1079	Modified Type F68 Concrete Curb and Gutter	4,230	Ft
650E1080	Type F68 Concrete Curb and Gutter	175	Ft
650E3060	Type B6 Concrete Curb	47	Ft
650E4379	Modified Type D48 Concrete Curb and Gutter	87	Ft
650E4380	Type D48 Concrete Curb and Gutter	9	Ft
650E4679	Modified Type P8 Concrete Gutter	2,312	Ft
650E4680	Type P8 Concrete Gutter	123	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
651E0040	4" Concrete Sidewalk	80,197	SqFt
651E0140	4" Reinforced Concrete Sidewalk	2,449	SqFt
651E0540	4" Colored Concrete Sidewalk	18,808	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	636	SqFt
651E5000	Sidewalk Drain	21.4	Ft
651E7000	Type 1 Detectable Warnings	1,103	SqFt
670E1030	5.5' x 3' Type B Drop Inlet	6	Each
670E1200	Type B Frame and Grate	57	Each
670E2200	Type C Frame and Grate	14	Each
670E4448	7' x 11' Concrete Type S Drop Inlet Base	4	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	36	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	31	Each
670E5400	Precast Drop Inlet Collar	57	Each
671E1096	96" Manhole	1	Each
671E5502	2" Adjusting Ring for Manhole	2	Each
671E6009	Type A9 Manhole Frame and Lid	1	Each
720E1010	PVC Coated Bank and Channel Protection Gabion	12.0	CuYd
831E0110	Type B Drainage Fabric	34	SqYd
900E0010	Refurbish Single Mailbox	1	Each
900E0012	Refurbish Double Mailbox	2	Each

GRADING OPERATIONS

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste.

The estimated cubic yards of excavation and/or embankment required to construct outlet ditches, ditch blocks, and approaches are included in the earthwork balance notes on the profile sheets.

Special ditch grades and other sections of the roadway different than the typical sections will be constructed to the limits shown on the cross sections. If significant changes to the cross sections are necessary during construction, the Engineer will contact the Designer for the proposed change.

Generally, all shallow inlet and outlet ditches as noted on the plan sheets will be cut with a 10-foot wide bottom with 5:1 backslopes. However, the Engineer may direct the Contractor to adjust the ditch width for proper alignment with the drainage structure.

A copy of the subsurface investigation for this project is available for review at the Mitchell Region and Mitchell Area offices.

TYPE III FIELD LABORATORY

The lab will be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection will be provided with a multi-port wireless router. The internet connection will be a minimum speed of 5 Mbps unless limited by job location and approved by the DOT. Prior to installing the wireless router, the Contractor will submit the wireless router's technical data to the Area Office to check for compatibility with the state's computer equipment. The internet connection is intended for state personnel usage only. The Contractor's personnel are prohibited from using the internet connection unless pre-approved by the Project Engineer. These items will be incidental to the contract unit price per each for "Type III Field Laboratory".

FENCE QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B18	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 01-22-2025 JWF

Plot Scale - 1:200

Station to Station		Side (L/R)	Right-of-Way Fence				Temporary Fence			Post Panels		Reset Chain Link Fence (Ft)	Remove Chain Link Fence for Reset (Ft)	Remove Fence (Ft)
			Type 4S (Smooth Wires) (Ft)						2 Post Panel (Each)					
21+00	22+48	L												148
54+38	56+19	R	209							7				211
58+27	58+27	L												11
73+34	73+89	R									55	55		322
78+97	81+54	R												137
82+18	83+55	R												19
89+66	89+66	R												
TOTALS:			209							7		55	55	848

Post Type and Sequence:
 Right-of-way fence shall be constructed using alternate wood and steel posts except as noted.

Plotted From - TRSF12139

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PAVEMENT, CURB AND GUTTER, AND SIDEWALK QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	B20	B171

Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

Station	to	Station	PCC Fillet Section	Concrete Curb and Gutter						Concrete Curb	Concrete Gutter			PCC Approach Pavement					Concrete Sidewalk	Reinforced Concrete Sidewalk	Colored Concrete Sidewalk	Reinforced Colored Concrete Sidewalk	Detectable Warning	Retaining Wall	Sidewalk Drain		
				Modified Type B	Type B	Modified Type F	Type F	Modified Type D	Type D		Type B	Modified Type P	Type P	Type A		Type B	Type Special										
				8"	68	68	68	68	48		48	6	8	8	6"	8"	8"	6"								8"	4"
SqYd	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	Ft	SqYd	SqYd	SqYd	SqYd	SqYd	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt	SqFt			
Grant Avenue SE to Sheridan Avenue SE																											
75+15.53-61.83' R		78+46.30-62.06' R		68.2	232.7	30.0											1649.2	131.9	593.8	44.0	40.0						
Sheridan Avenue SE to Front Avenue SE																											
78+88.33-61.97' R		81+66.07-109.13' R		34.2	202.3	125.3											1697.0		535.4		40.0						
Front Avenue to East Harr Avenue																											
82+04.46-110.65' L		98+14.00-19.00' L			1310.9	112.5											6388.0	142.3	2933.8	37.5	30.0						
82+06.05-109.15' R		99+15.58-57.01' R		34.3	1383.4	154.4											6953.6	201.9	3060.3	71.3	50.0						
East Harr Avenue to Station 111+29.00																											
98+14.00-19.00' L		111+29.00-67.00' L			1136.0	65.0	12.0										5370.0	309.3	2641.3	101.7	30.0						
99+45.58-56.99' R		111+29.00-19.00' R		40.1	1021.4	10.0											4980.4	108.0	2391.4	47.5	20.0						
Station 111+29.00 to Station 119+36.00																											
111+29.00-67.00' L		119+36.00-19.00' L			87.0	130.0	535.0	65.0									1098.5		445.5		40.0						
111+29.00-19.00' R		119+36.00-19.00' R			204.0	86.0	480.0	110.0									767.5		350.0		10.0						
Temporary Connection																											
65+50.00-31.77' L		66+50.00-32.17' L				100.0											500.0										
65+50.00-31.88' R		66+50.00-32.17' R				100.0											500.0										
Subtotal:				176.8	5577.7	913.2	1027.0	175.0	0.0	0.0	0.0	792.0	0.0	0.0	0.0	365.6	563.1	29904.2	893.4	12951.5	302.0	260.0	0.0	0.0			
Total:				1100.0	12613.8	2320.5	4230.3	175.0	87.0	9.4	47.1	2312.4	123.1	123.0	1188.2	73.3	588.9	1071.4	80196.8	2449.4	18807.5	636.1	1103.1	195.0	21.4		

Plot Scale - 1:200

Plotted From - TRSF12139

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32+74-54' L
Take Out 18"-70' CMP
(Incidental Work, Grading)

32+77-71' L (2 ac)
Install 18"-54' RCP Arch
& 2 Safety Ends

35+98.85-70' R to 36+20.15-70' R
Install 18"-14' RCP
& 1 Safety End
(Between Drop Inlet and Outlet)

35+88-56' R
Take Out 18"-83' CMP
(Incidental Work, Grading)

35+75.50-70' R to 35+98.85-70' R
Install 18"-22' RCP
(Between Drop Inlets)

35+54.30-70' R to 35+75.50-70' R
Install 18"-14' RCP
& 1 Safety End
(Between Inlet and Drop Inlet)

35+37-34.63' L to 35+37-34.63' R
Install 18"-66' RCP
(Between Drop Inlets)

35+37-34.63' R to 35+37-61.55' R
Install 18"-18' RCP
& 1 Safety End
(Between Drop Inlet and Outlet)

37+89-57' L
Take Out 18"-64' CMP
(Incidental Work, Grading)

Install 4'x6' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:
35+37-34.63' L
35+37-34.63' R

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B37	TOTAL SHEETS B171
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Plotting Date: 01/27/2025 Revised 1-13-2025 JWF

Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:
35+75.50-70' R
35+98.85-70' R



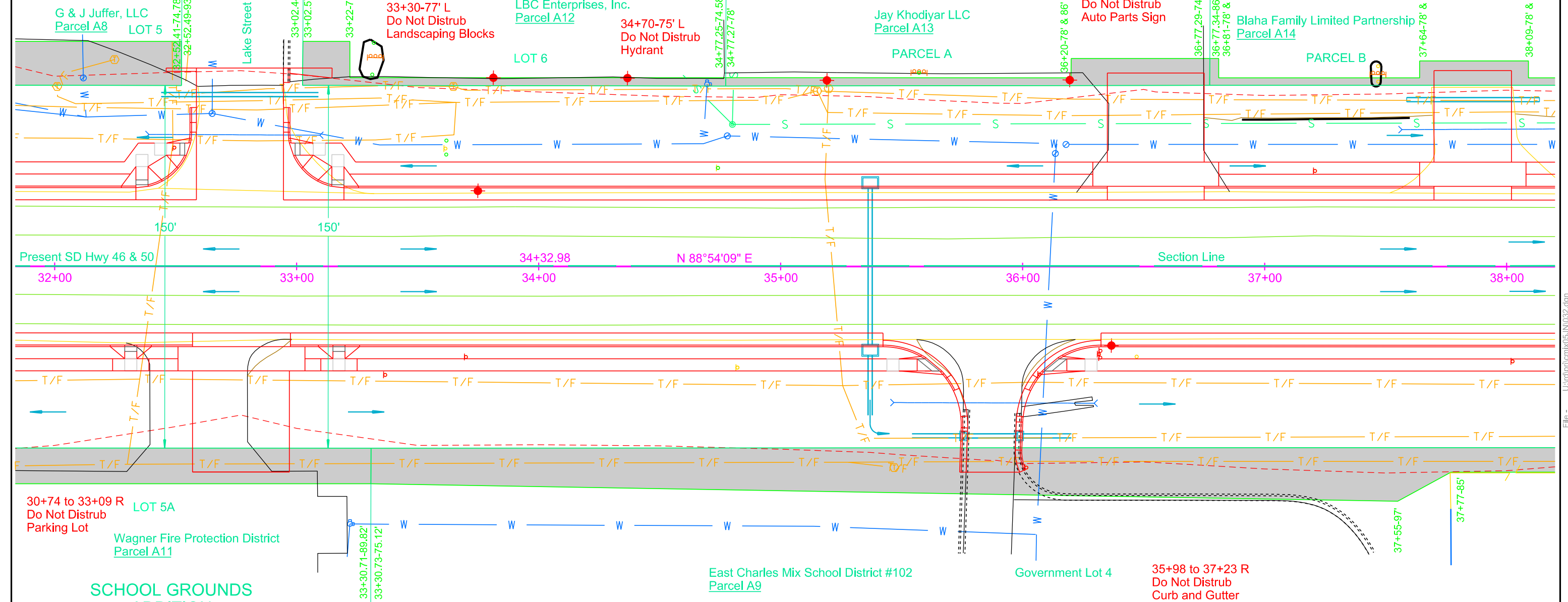
Plot Scale - 1"=40'

WAGNER WEST ADDITION

WAGNER WEST ADDITION

WAGNER Sec 33 - T96N - R63W

BLAHA'S SUBDIVISION



30+74 to 33+09 R
Do Not Disturb
Parking Lot

SCHOOL GROUNDS ADDITION

Plotted From - TRSF12139

Plotted From -

Parcel A12
33+02.44 to 34+77.27 L
Temporary Easement containing
869 sq ft, more or less

Parcel A13
34+77.25 to 36+77.34 L
Temporary Easement containing
1109 sq ft, more or less

Parcel A9
33+30.71 to 42+09.68 R
Temporary Easement containing
12554 sq ft, more or less

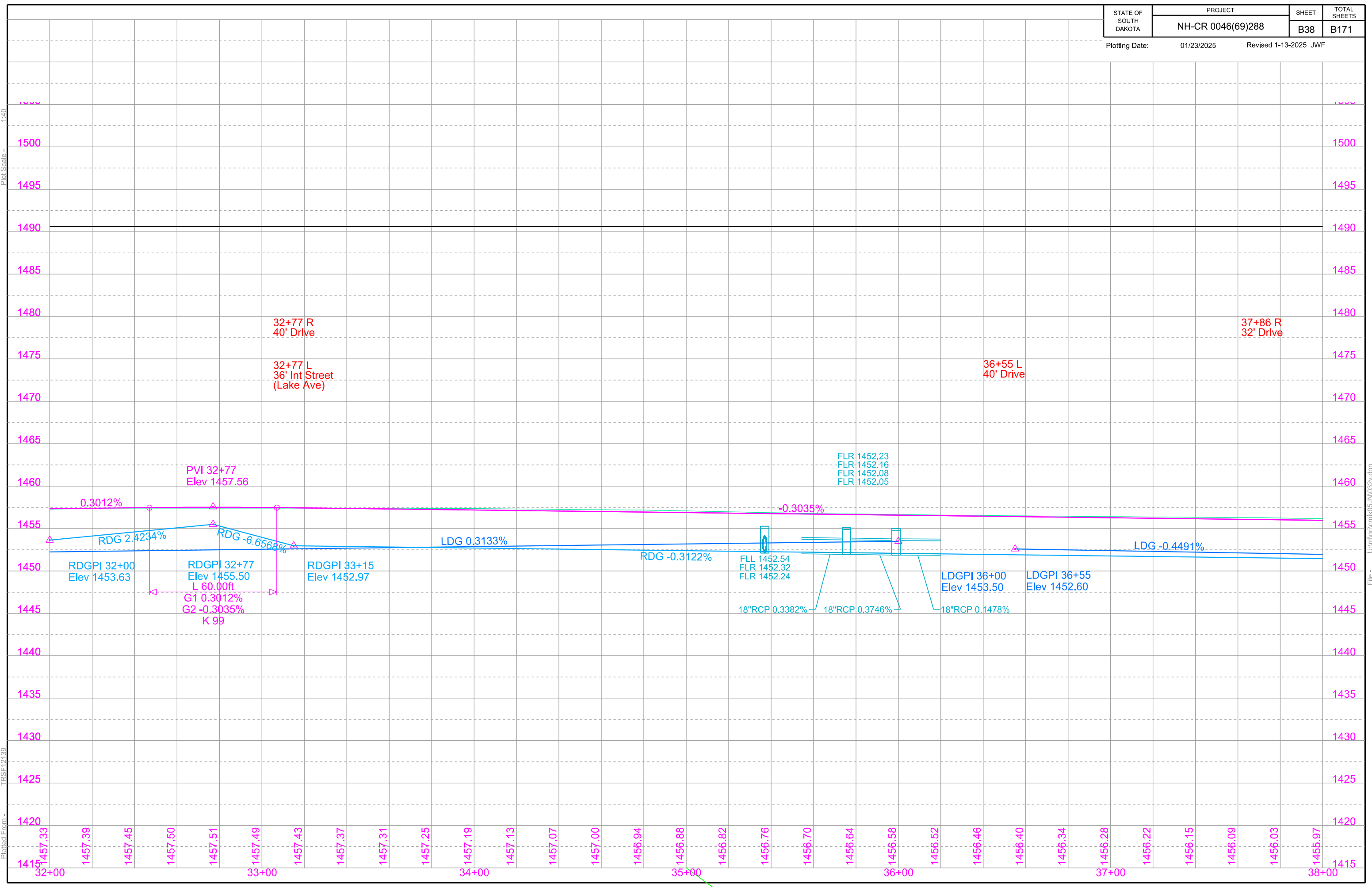
Parcel A14
36+77.29 to 38+84.94 L
Temporary Easement containing
1450 sq ft, more or less

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Plot Scale - 1:40

Plotted From - TRSF12139

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39+11-55' L
Take Out 18"-44' CMP
(Incidental Work, Grading)

40+25-57' L
Take Out 18"-54' CMP
(Incidental Work, Grading)

38+53-34.63' L to 38+53-34.63' R
Install 18"-66' RCP Arch
(Between Drop Inlets)

38+53-34.63' R to 38+53-61.12' R
Install 18"-20' RCP Arch
& 1 Safety End
(Between Drop Inlet and Outlet)

40+29-69' L (1 ac)
Install 18"-44' RCP Arch
& 2 Safety Ends
Blaaha Family Limited Partnership
Parcel A14

41+34 (17 ac)
Install 24"-110' RCP Arch
& 2 Sloped Ends

41+57-59.04' R to 41+57-34.63' R (17 ac)
Install 24"-18' RCP Arch
& 1 Sloped End
(Between Inlet and Drop Inlet)

41+57-34.63' R to 41+57-34.63' L (17 ac)
Install 24"-66' RCP Arch
(Between Drop Inlets)

41+57-34.63' L to 41+57-60.82' L (17 ac)
Install 24"-20' RCP Arch
& 1 Sloped End
(Between Drop Inlet and Outlet)

BLAHA'S SUBDIVISION

SW1/4 SW1/4

39+08 L
Elim Ent

Sec 33 - T96N - R63W

WAGNER

42+90-32.17' R to 44+95-34.63' R
Install 18"-198' RCP
(Between Drop Inlets)

42+01.99-90' L to 42+18.59-90' L
Install 24"-12' RCP Arch
& 1 Sloped End
(Between Drop Inlet and Outlet)

41+95.79-64' R to 42+18.79-64' R
Install 18"-16' RCP Arch
& 1 Safety End
(Between Drop Inlet and Outlet)

42+18.79-64' R to 42+61.80-64' R
Install 18"-40' RCP Arch
(Between Drop Inlets)

41+77
Take Out 36"-92' RCP Arch
(Incidental Work, Grading)

42+62.25-90' L to 42+78.50-90' L
Install 24"-12' RCP Arch
& 1 Sloped End
(Between Inlet and Drop Inlet)

42+18.59-90' L to 42+62.25-90' L
Install 24"-42' RCP Arch
(Between Drop Inlets)

41+75 L
Shape Ditch along
Intersecting Road as
needed to flow North
(Incidental Work, Grading)

42+42-88' L
Take Out 24"-68' RCP
(Incidental Work, Grading)

41+98-59' R to 42+59-59' R
Take Out 30"-61' RCP
(Incidental Work, Grading)

Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:
42+18.59-90' L
42+62.25-90' L
42+90-32.17' R

Install 4'x11' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet locations:
41+57-34.63' L
41+57-34.63' R
42+18.79-64' R
42+61.80-64' R

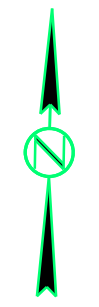
Remove Drop Inlets
with Frame and Grate
at the following locations:
42+22-59' R
42+59-59' R

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B39	TOTAL SHEETS B171
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Plotting Date: 01/27/2025 Revised 1-13-2025 JWF

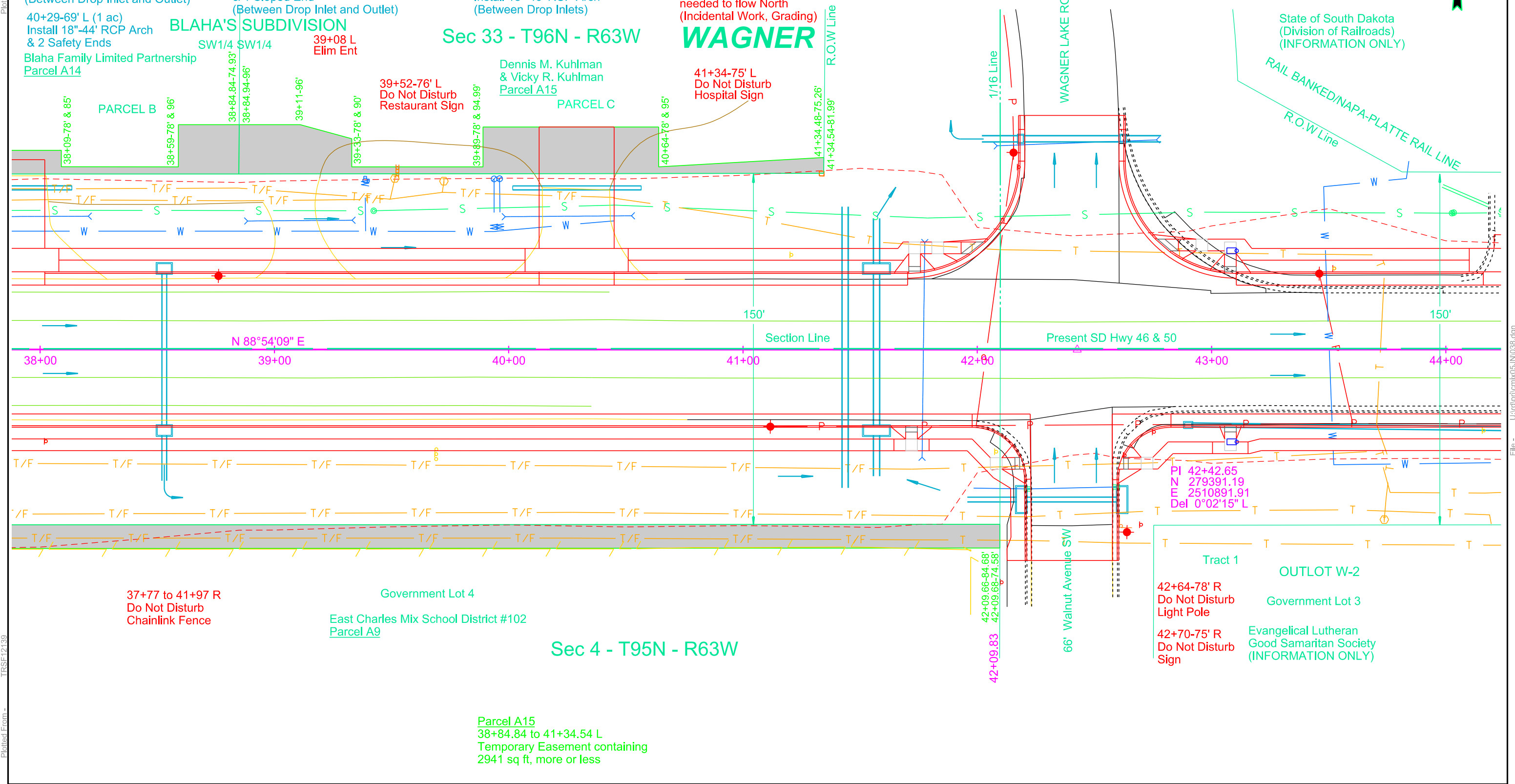
Install 4'x6' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet locations:
38+53-34.63' L
38+53-34.63' R

Take Out 18" RCP
at the following location:
(Incidental Work, Grading)
43+99-70' L to 44+99-26' L (110')



State of South Dakota
(Division of Railroads)
(INFORMATION ONLY)

RAIL BANKED/NAPA-PLATTE RAIL LINE
R.O.W Line



37+77 to 41+97 R
Do Not Disturb
Chainlink Fence

Government Lot 4
East Charles Mix School District #102
Parcel A9

Sec 4 - T95N - R63W

Parcel A15
38+84.84 to 41+34.54 L
Temporary Easement containing
2941 sq ft, more or less

PI 42+42.65
N 279391.19
E 2510891.91
Del 0°02'15" L

Tract 1
OUTLOT W-2
Government Lot 3
Evangelical Lutheran
Good Samaritan Society
(INFORMATION ONLY)

Plot Scale - 1"=40'

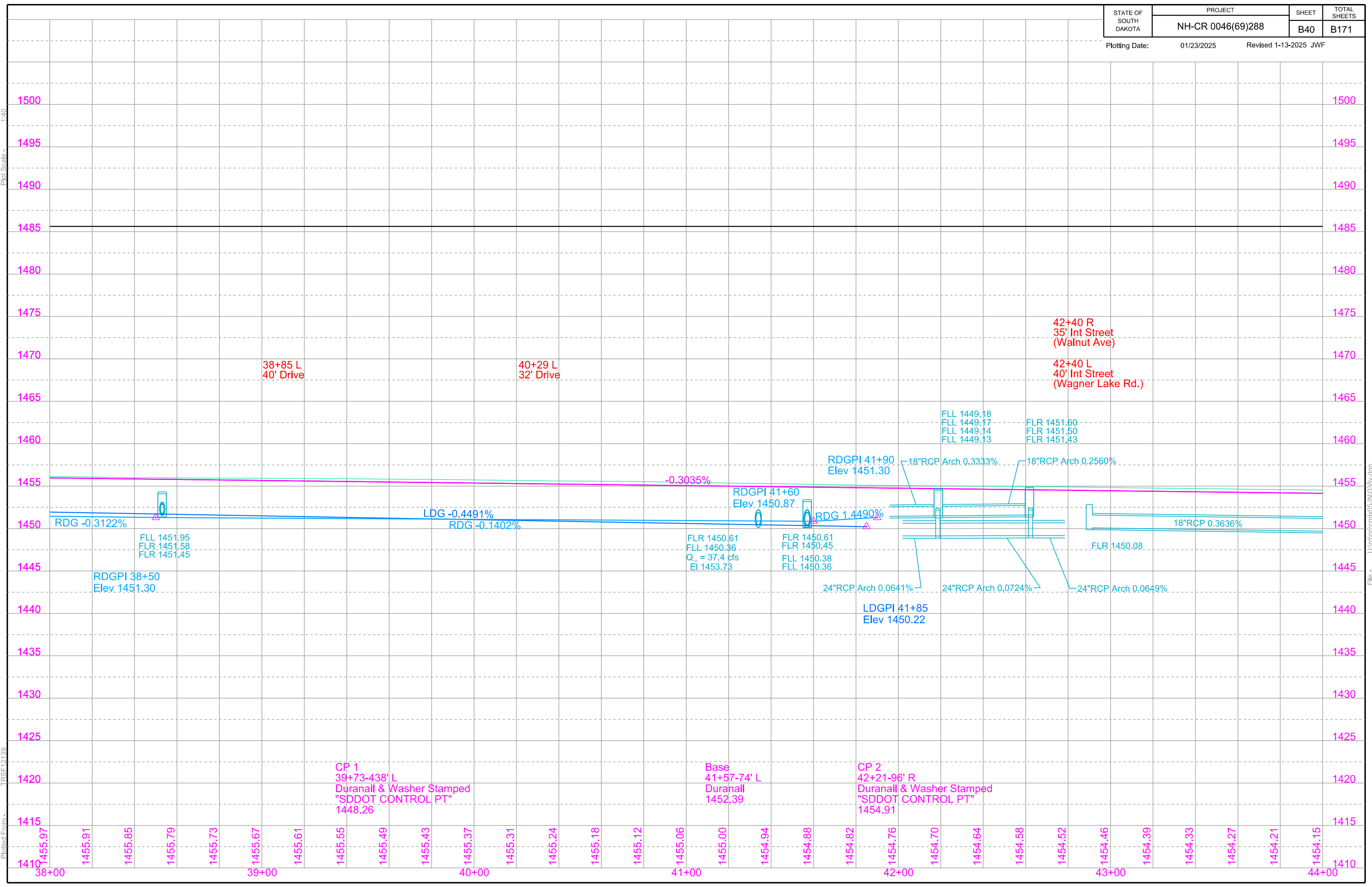
Plotted From - TRSF12139

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Plot Scale - 1:40

Plotted From - TRSF12139

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38+85 L
40' Drive

40+29 L
32' Drive

42+40 R
35' Int Street
(Walnut Ave)

42+40 L
40' Int Street
(Wagner Lake Rd.)

RDG -0.3122%

FLL 1451.95
FLR 1451.58
FLR 1451.45

RDGPI 38+50
Elev. 1451.30

LDG -0.4491%
RDG -0.1402%

FLR 1450.61
FLR 1450.36
Q_s = 37.4 cfs
EI 1453.73

RDGPI 41+60
Elev. 1450.87

FLR 1450.61
FLR 1450.45
FLL 1450.38
FLL 1450.36

RDGPI 41+90
Elev. 1451.30

FLL 1449.18
FLL 1449.17
FLL 1449.14
FLL 1449.13

FLR 1451.60
FLR 1451.50
FLR 1451.43

18"RCP Arch 0.3333%

18"RCP Arch 0.2560%

18"RCP 0.3636%

FLR 1450.08

24"RCP Arch 0.0641%

24"RCP Arch 0.0724%

24"RCP Arch 0.0649%

LDGPI 41+85
Elev. 1450.22

CP 1
39+73-438' L
Duranail & Washer Stamped
"SDDOT CONTROL PT"
1448.26

Base
41+57-74' L
Duranail
1452.39

CP 2
42+21-96' R
Duranail & Washer Stamped
"SDDOT CONTROL PT"
1454.91

38+00 39+00 40+00 41+00 42+00 43+00 44+00

1455.97 1455.91 1455.85 1455.79 1455.73 1455.67 1455.61 1455.55 1455.49 1455.43 1455.37 1455.31 1455.24 1455.18 1455.12 1455.06 1455.00 1454.94 1454.88 1454.82 1454.76 1454.70 1454.64 1454.58 1454.52 1454.46 1454.39 1454.33 1454.27 1454.21 1454.15 1410

Plot Scale - 1"=40'

Plotted From - TRSF12139

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	B43	B171

Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

50+02-52' R to 50+12-34.63' R
Install 18"-18' RCP
(Between Drop Inlets)

50+12-34.63' L to 50+12-34.63' R
Install 18"-66' RCP
(Between Drop Inlets)

50+12-34.63' R to 52+54-34.63' R
Install 24"-234' RCP
(Between Drop Inlets)

Remove Drop Inlets with Frame & Grate at the following locations:

50+01-47' R 50+17-26' R
50+19-26' L 52+31-25' L
52+43-26' R 52+43-49' R
54+34-26' R 54+34-49' R
55+09-41' R 55+99-25' L
55+98-26' R

52+44-47' R to 52+54-34.63' R
Install 18"-14' RCP
(Between Drop Inlets)

52+54-34.63' L to 52+54-34.63' R
Install 18"-66' RCP
(Between Drop Inlets)

52+54-34.63' R to 53+79-34.63' R
Install 30"-118' RCP
(Between Drop Inlets)

Take Out 18" RCP at the following locations (Incidental Work, Grading):

50+01-47' R to 50+16-45' R (15')
50+16-45' R to 50+17-26' R (19')
50+17-26' R to 50+19-26' L (51')
50+17-26' R to 52+43-26' R (227')
52+31-25' L to 52+43-26' R (52')
52+43-26' R to 52+43-49' R (23')
52+43-26' R to 54+34-26' R (190')
54+34-26' R to 54+34-49' R (23')
54+34-26' R to 55+09-26' R (75')
55+09-26' R to 55+09-41' R (15')
55+09-26' R to 55+98-26' R (89')
55+99-25' L to 55+98-26' R (51')
55+98-26' R to 58+03-26' R (205')

53+34-47' R to 53+79-34.63' R
Install 18"-50' RCP (34' & 16') & 1-45° Bend at 53+68.63-47' R
(Between Drop Inlets)

53+79-34.63' R to 54+35-34.63' R
Install 30"-48' RCP
(Between Drop Inlets)

54+35-47' R to 54+35-34.63' R
Install 18"-10' RCP
(Between Drop Inlets)

54+35-34.63' R to 55+81-34.63' R
Install 30"-142' RCP (72' & 70') & 1-18" on 30" x 6' RCP Tee at 55+09-34.63' R
(Between Drop Inlets)

55+09-47' R to 55+09-34.63' R
Install 18"-12' RCP
(Between Drop Inlet and Tee)

55+75-34.63' L to 55+81-34.63' R
Install 18"-66' RCP
(Between Drop Inlets)

55+81-34.63' R to 57+94.47-30.50' R
Install 30"-208' RCP
(Between Drop Inlets)

Install 4'x6' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following location:

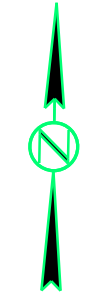
52+54-34.63' L
52+54-34.63' R
54+35-34.63' R
55+75-34.63' L
55+81-34.63' R

Install 3'x4' Type C Drop Inlet and Type C Frame and Grate at the following location:

50+02-52' R
52+44-47' R
53+34-47' R
54+35-47' R
55+09-47' R

Install 4'x11' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:

50+12-34.63' L
50+12-34.63' R
53+79-34.63' R



KAFKA FIRST ADDITION

Ronan Group, LLC Parcel A16 Omitted

LOT 3

20' access easement

50+85.84-66.84'
50+85.85-60.49'

51+28-63' L
Do Not Disturb Manhole

Richard D. Kafka and Clara R. Kafka Revocable Living Trust Parcel A17

LOT 1

WAGNER

52+60-65' L
Do Not Disturb Sign

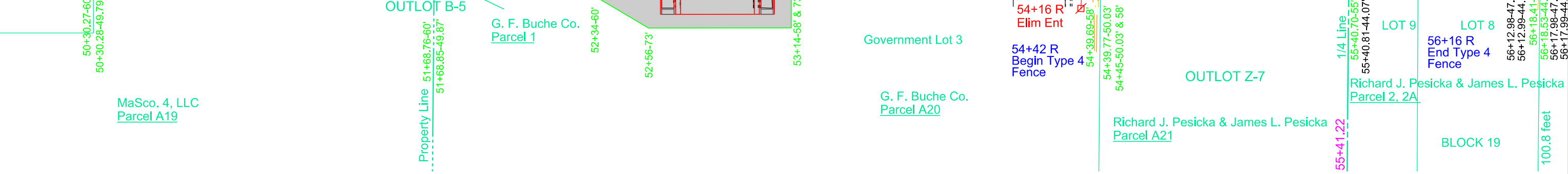
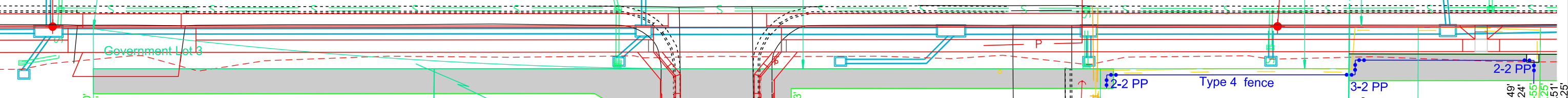
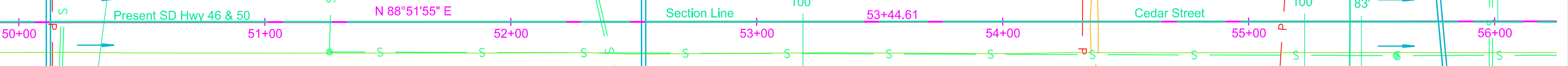
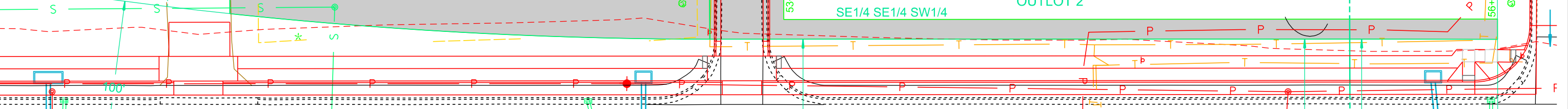
52+70-65' L
Do Not Disturb Trees

Sec 33 - T96N - R63W

United States of America (Department of Health & Human Services) (Great Plains Area Indian Health Service) Parcel A18

OUTLOT 2

OUTLOT 1



Sec 4 - T95N - R63W

CATHOLIC CHURCH ADDITION

Parcel A17
50+85.84 to 52+80.92 L
Temporary Easement containing 3391 sq ft, more or less

Parcel A18
52+80.89 to 56+01.19 L
Temporary Easement containing 3089 sq ft, more or less

Parcel A19
50+30.27 to 51+68.85 R
Temporary Easement containing 1408 sq ft, more or less

Parcel A20
51+68.76 to 54+39.77 R
Temporary Easement containing 3368 sq ft, more or less

Parcel A21
54+39.69 to 54+45.00 R
Temporary Easement containing 42 sq ft, more or less

Parcel 2
55+40.70 to 56+18.53 R
Temporary Easement containing 826 sq ft, more or less

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Remove Drop Inlets with Frame & Grate at the following locations:
 58+03-25' L 58+03-26' R
 59+36-26' R 59+57-26' L
 59+81-50' L 59+81-72' R
 60+19-51' L 60+19-52' R

Take Out 18" RCP at the following locations (Incidental Work, Grading):
 58+03-25' L to 58+03-26' R (51')
 58+03-26' R to 59+36-26' R (132')
 59+36-26' R to 60+20-27' R (84')
 59+57-26' L to 59+36-26' R (55')
 59+57-26' L to 59+57-49' L (24')
 59+57-49' L to 59+81-50' L (24')
 59+81-50' L to 60+19-51' L (38')
 59+81-72' R to 60+19-52' R (42')
 60+19-52' R to 60+19-69' R (17')
 60+20-27' R to 60+19-52' R (25')
 60+20-27' R to 63+22-26' R (302')

58+96-23.67' R to 59+23-26.13' R
 Install 30"-20' RCP (Between Drop Inlets)
 58+96-23.67' L to 59+23-26.13' L
 Install 18"-20' RCP (Between Drop Inlets)
 59+23-26.13' L to 59+23-26.13' R
 Install 24"-48' RCP (Between Drop Inlets)
 59+23-26.13' R to 59+50-30.61' R
 Install 30"-20' RCP (Between Drop Inlets)

59+23-26.13' L to 59+50-23.67' L
 Install 18"-20' RCP (Between Drop Inlets)
 59+50-30.61' R to 61+62-23.67' R
 Install 30"-210' RCP (70' & 140') & 1-18" on 30" x 6' Tee at 60+21.28-29.42' R (Between Drop Inlets)
 59+72.69-73' R to 60+21.94-78' R
 Install 18"-46' RCP (Between Drop Inlets)

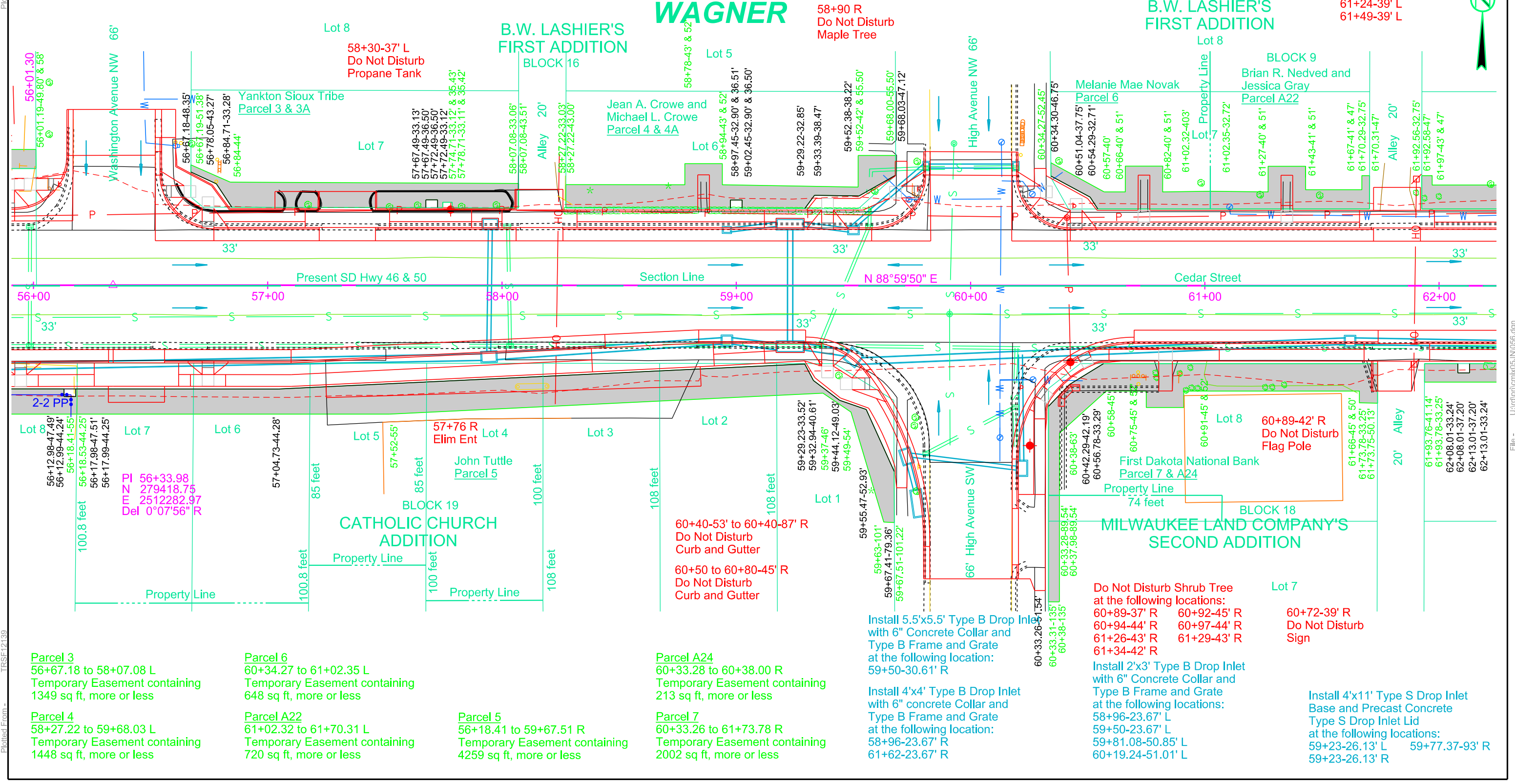
59+72.69-73' R to 59+77.37-93' R
 Install 18"-12' RCP (Between Drop Inlets)
 59+50-23.67' L to 59+81.08-51' L
 Install 18"-40' RCP (Between Drop Inlets)
 60+21.28-29.42' R to 60+21.94-78' R
 Install 18"-46' RCP (Between Drop Inlet and Tee)

59+81.08-51' L 60+19.24-51' L
 Install 18"-36' RCP (Between Drop Inlets)
 61+62-23.67' R to 63+13-26.13' R
 Install 30"-146' RCP (Between Drop Inlets)

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B45	TOTAL SHEETS B171
Plotting Date: 01/23/2025		Revised 1-13-2025 JWF	

Install 4'x6' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:
 57+95-26.13' L
 57+94.47-30.50' R
 59+72.69-73' R
 60+21.94-78' R

Do Not Disturb Trees at the following locations:
 56+07-65' L
 59+58-87' R
 59+77-53' L
 60+99-44' L
 61+24-39' L
 61+49-39' L



Plotted From: TRSF12139

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Remove Drop Inlet with Frame & Grate at the following locations:
63+22-26' R 63+22-25' L
63+48-52' L 63+48-49' R
63+85-49' R 65+09-26' R
66+87-26' R 66+92-26' L
67+12-59' R 67+86-60' R

Take Out 18" RCP at the following locations (Incidental Work, Grading):
63+22-26' R to 63+22-25' L (51')
63+22-26' R to 63+48-49' R (35')
63+22-25' L to 63+48-52' L (37')
63+48-49' R to 63+85-49' R (37')
66+87-26' R to 66+92-26' L (51')
66+87-26' R to 67+12-59' R (41')
67+12-59' R to 67+86-60' R (74')

Take Out 24" RCP at the following locations (Incidental Work, Grading):
63+22-26' R to 65+09-26' R (187')
65+09-26' R to 66+87-26' R (178')
66+87-26' R to 69+01-25' R (215')
63+13-26.13' R to 64+22-26.13' R
Install 30"-104' (70' & 34') & 1-18" on 30" x 6' RCP Tee at 63+85.47-26.13' R (Between Drop Inlet and Tee)

63+44.63-55' R to 63+85.47-51' R
Install 18"-38' RCP (Between Drop Inlets)
63+85.47-51' R to 63+85.47-26.13' R
Install 18"-24' RCP (Between Drop Inlet and Tee)
64+22-26.13' R to 66+90-26.13' R
Install 30"-260' RCP (Between Drop Inlets)

66+90-26.13' L to 66+90-26.13' R
Install 18"-48' RCP (Between Drop Inlets)
66+90-26.13' R to 68+15-26.13' R
Install 36"-114' (90' & 24') & 1-18" on 36" x 6' RCP Tee at 67+85.40-26.13' R (Between Drop Inlets)

67+09.94-67' R to 67+85.41-63' R
Install 18"-74' RCP (Between Drop Inlets)
67+85.41-63' R to 67+85.41-26.13' R
Install 18"-36' RCP (Between Drop Inlet and Tee)
66+76.50-25.45' R to 66+90-26.13' R
Install 24"-8' RCP Temporary Connection (Between Existing Pipe and Drop Inlet)

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B47	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

62+78-28.08' L
Install 8.17' Sidewalk Drain

B.W. LASHIER'S FIRST ADDITION
WAGNER

Do Not Disturb Trees at the following locations:
61+94-37' L 62+00-38' L
62+22-43' L 62+32-44' L
62+94-41' L 63+45-56' L
64+09-41' R 64+47-39' L
64+64-44' L

LOT 5
Trista Leigh Kourt Parcel A23

LOT 6

Dale D. Kafka, Terrence L. Kafka, Mark J. Kafka & Shelly L. Soukup Parcel 9
Troy W. Mattis and Patricia A. Mattis Parcel 10

B.W. LASHIER'S FIRST ADDITION

66+76.50-25.45' R to 66+90-26.13' R
Take Out 24"-8' RCP Temporary Connection (Incidental Work, Grading)

66+99-38' L
Do Not Disturb Sign

66+27-38' L to 66+59-37' L
Do Not Disturb Canopy

66+70 L
Elim Ent

Section Line
N 88°59'50" E
62+00 63+00 64+00 65+00 66+00 67+00 68+00
Present SD Hwy 46 & 50
Cedar Street

61+93.76-41.14' 62+08.01-33.24' 62+08.01-37.20' 62+13.01-37.20' 62+13.01-33.24'

62+44-42' R
Do Not Disturb Propane Tank

LOT 1
BLOCK 18
David & Karen Brown Revocable Living Trust Parcel 8

62+78 L
Maintain Drainage Channel to Sidewalk Drain (Incidental Work, Grading)

MILWAUKEE LAND COMPANY'S SECOND ADDITION

62+65-38' R
Do Not Disturb Bush

Ellen Soukup-Locke & Rhonda Soukup Parcel 11

MILWAUKEE LAND COMPANY'S SECOND ADDITION

Brian Scott Esplund & Gretchen Marie Esplund Parcel A26

66+78-41' R
Do Not Disturb Sign

Install 2'x3' Type B Drop Inlet with 6" Concrete Collar and Type B Frame and Grate at the following location:
63+85.47-51' R
67+85.41-63' R

Parcel A23
61+92.56 to 63+34.38 L
Temporary Easement containing 1303 sq ft, more or less

Parcel 10
64+70.13 to 65+39.82 L
Temporary Easement containing 687 sq ft, more or less

Parcel 8
61+93.76 to 63+34.36 R
Temporary Easement containing 1104 sq ft, more or less

Parcel A26
65+04.11 to 65+39.15 R
Temporary Easement containing 196 sq ft, more or less

Parcel 12
67+98.95 to 68+73.22 L
Temporary Easement containing 961 sq ft, more or less

Parcel A27
65+59.14 to 66+99.20 R
Temporary Easement containing 2098 sq ft, more or less

Install 4'x6' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:
63+13-26.13' L
63+13-26.13' R
64+22-26.13' R

Install 4'x11' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:
63+44.63-55' R
66+90-26.13' L
66+90-26.13' R
67+09.94-67' R



Plot Scale - 1"=40'

Plotted From - TRSE12139

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Remove Drop Inlets with Frame & Grate at the following locations:
 69+01-25' R 70+88-26' L
 70+88-25' R 71+13-51' R
 71+51-51' R 72+84-25' R
 72+84-26' L

68+15-26.13' R to 69+05-26.13' R
 Install 36"-80' RCP (Between Drop Inlets)

69+05-26.13' R to 70+78-26.13' R
 Install 36"-162' RCP (Between Drop Inlets)

Take Out 18" RCP at the following locations (Incidental Work, Grading):
 70+88-25' R to 70+88-26' L (51')
 70+88-25' R to 71+13-51' R (36')
 71+12-26' R to 71+13-51' R (25')
 71+13-51' R to 71+51-51' R (37')
 71+51-51' R to 71+51-26' R (25')
 72+84-25' R to 72+84-26' L (51')

Do Not Disturb Trees at the following locations:
 69+10-42' L 69+32-42' L 68+50 L
 69+92-42' L 70+26-44' L Do Not Disturb Vacuums
 70+32-47' L 70+51-39' L
 70+53-45' L 70+83-42' L
 71+37-45' L 71+59-45' L
 72+63-44' L 73+46-51' L

Take Out 30" RCP at the following locations (Incidental Work, Grading):
 69+01-25' R to 70+88-25' R (186')
 70+88-25' R to 71+12-26' R (24')
 71+12-26' R to 71+51-26' R (39')
 71+51-26' R to 72+84-25' R (133')
 72+84-25' R to 74+54-25' R (170')

Do Not Disturb Concrete Slab at the following locations:
 68+09 to 68+15-38' L
 68+56 to 68+62-38' L

70+47-26.13' L to 70+78-26.13' R
 Install 18"-58' RCP (Between Drop Inlets)

70+78-26.13' R to 72+77-23.67' R
 Install 36"-194' (70' & 124') & 1-18" on 36" x 6' RCP Tee at 71+52.37-25.25' R (Between Drop Inlets)

Install 3'x4' Type B Drop Inlet with 6" Concrete Collar and Type B Frame and Grate at the following locations:
 71+51.99-40.50' R

71+10.30-56' R to 71+51.99-40.50' R
 Install 18"-42' RCP (Between Drop Inlets)

71+51.99-40.50' R to 71+52.37-25.25' R
 Install 18"-14' RCP (Between Drop Inlets and Tee)

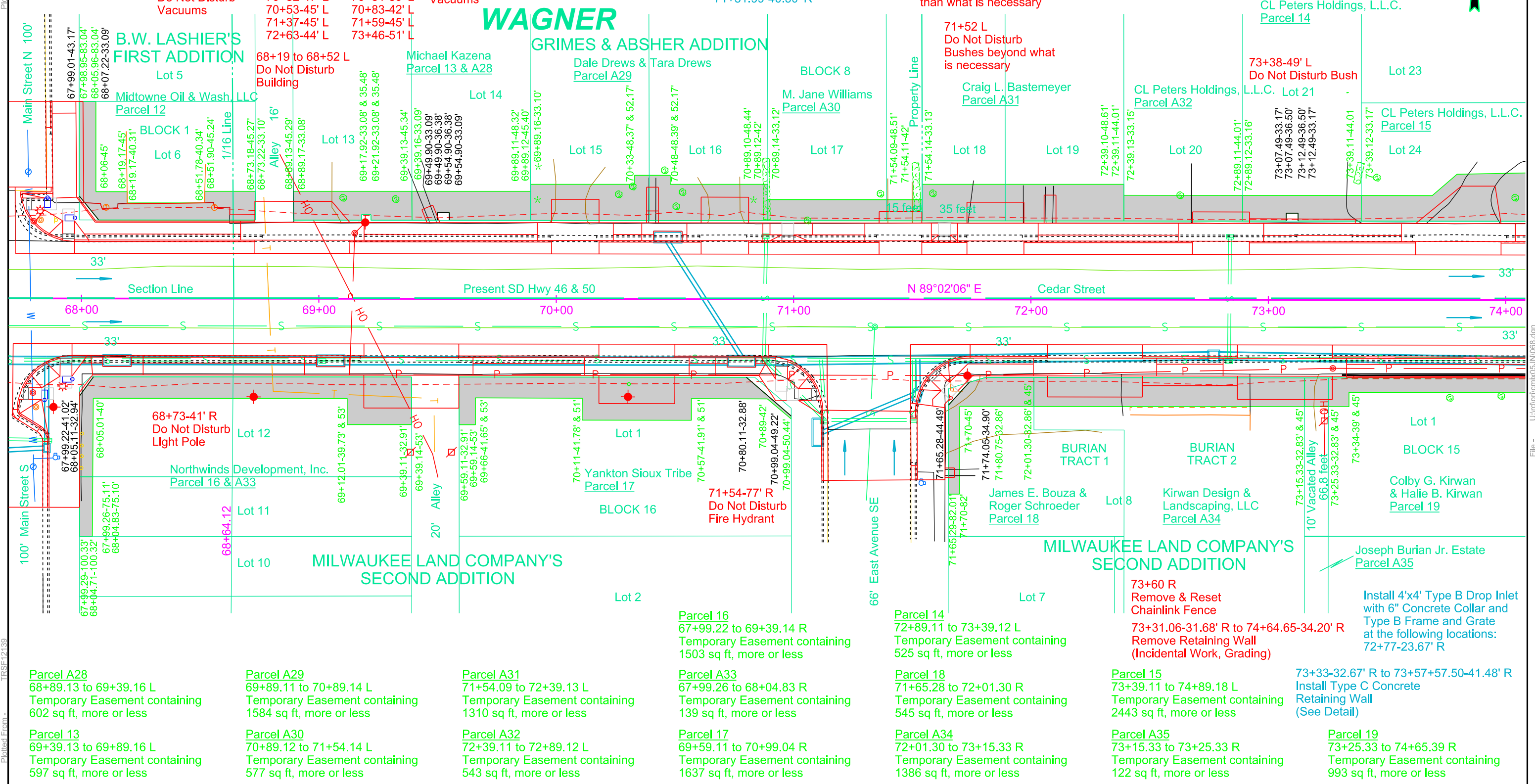
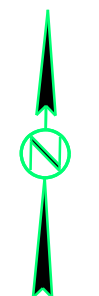
72+77-23.67' R to 74+44-26.13' R
 Install 36"-162' RCP (Between Drop Inlets)

70+89 R
 Do Not Disturb Bushes beyond work limits other than what is necessary

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B49	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 1-13-2025 JWV

Install 4'x11' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:
 68+15-26.13' R
 69+05-26.13' R
 70+47-26.13' L
 70+78-26.13' R
 71+10.30-56' R



Parcel A28
 68+89.13 to 69+39.16 L
 Temporary Easement containing 602 sq ft, more or less

Parcel A29
 69+89.11 to 70+89.14 L
 Temporary Easement containing 1584 sq ft, more or less

Parcel A31
 71+54.09 to 72+39.13 L
 Temporary Easement containing 1310 sq ft, more or less

Parcel A33
 67+99.26 to 68+04.83 R
 Temporary Easement containing 139 sq ft, more or less

Parcel 18
 71+65.28 to 72+01.30 R
 Temporary Easement containing 545 sq ft, more or less

Parcel 15
 73+39.11 to 74+89.18 L
 Temporary Easement containing 2443 sq ft, more or less

73+33-32.67' R to 73+57+57.50-41.48' R
 Install Type C Concrete Retaining Wall (See Detail)

Parcel 13
 69+39.13 to 69+89.16 L
 Temporary Easement containing 597 sq ft, more or less

Parcel A30
 70+89.12 to 71+54.14 L
 Temporary Easement containing 577 sq ft, more or less

Parcel A32
 72+39.11 to 72+89.12 L
 Temporary Easement containing 543 sq ft, more or less

Parcel 17
 69+59.11 to 70+99.04 R
 Temporary Easement containing 1637 sq ft, more or less

Parcel A34
 72+01.30 to 73+15.33 R
 Temporary Easement containing 1386 sq ft, more or less

Parcel A35
 73+15.33 to 73+25.33 R
 Temporary Easement containing 122 sq ft, more or less

Parcel 19
 73+25.33 to 74+65.39 R
 Temporary Easement containing 993 sq ft, more or less

Plot Scale - 1"=40'

Plotted From - TRSF12139

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74+44-26.13' R to 74+49-26.13' L
Install 18"-50' RCP
(Between Drop Inlets)

74+44-26.13' R to 75+60-26.13' R
Install 36"-110' RCP (70' & 40')
& 1-18" on 36" x 6' RCP Tee
at 75+17.31-26.10' R
(Between Drop Inlets)

74+76.51-55' R to 75+17.29-51' R
Install 18"-38' RCP
(Between Drop Inlets)

Take Out 18" RCP
at the following locations
(Incidental Work, Grading):

74+54-25' R to 74+66-26' L (52')
74+54-25' R to 74+79-50' R (36')
74+79-50' R to 74+78-25' R (25')
74+79-50' R to 75+17-51' R (37')
75+17-26' R to 75+17-51' R (24')
78+19-25' R to 78+20-26' L (51')
78+19-25' R to 78+45-50' R (36')
78+45-50' R to 78+45-25' R (25')
78+45-50' R to 78+89-51' R (44')
78+89-51' R to 78+89-25' R (25')

Take Out 30" RCP
at the following locations
(Incidental Work, Grading):

74+54-25' R to 74+78-25' R (25')
74+78-25' R to 75+17-26' R (38')
75+17-26' R to 76+52-25' R (135')
76+52-25' R to 78+19-25' R (167')
78+19-25' R to 78+45-25' R (25')
78+45-25' R to 78+89-25' R (45')
78+89-25' R to 80+50-25' R (161')

Remove Drop Inlets
with Frame & Grate
at the following locations:

74+54-25' R 74+66-26' L
74+79-50' R 75+17-51' R
76+52-25' R 78+19-25' R
78+20-26' L 78+45-50' R
78+89-51' R

78+09-26.13' R to 79+65-23.67' R
Install 36"-152' RCP (78' & 74')
& 1-18" on 36" x 6' RCP Tee
at 78+89.62-24.87' R
(Between Drop Inlets)

78+42.19-55' R to 78+90.02-51' R
Install 18"-46' RCP
(Between Drop Inlets)

78+89.62-24.87' R to 78+90.02-51' R
Install 18"-26' RCP
(Between Drop Inlet and Tee)

79+65-26.13' L to 79+65-23.67' R
Install 18"-46' RCP
(Between Drop Inlets)

79+65-23.67' R to 80+24-23.67' R
Install 36"-56' RCP
(Between Drop Inlets)

79+16.60-30.59' L
Install 13.17' Sidewalk Drain

Install 4'x11' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:

74+49-26.13' L
74+76.51-55' R
77+59-26.13' L
78+42.19-55' R
79+65-26.13' L

Install 4'x6' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:

74+44-26.13' R
75+60-26.13' R
78+09-26.13' R

GRIMES & ABSHER ADDITION
CL Peters Holdings, L.L.C.
Parcel 15

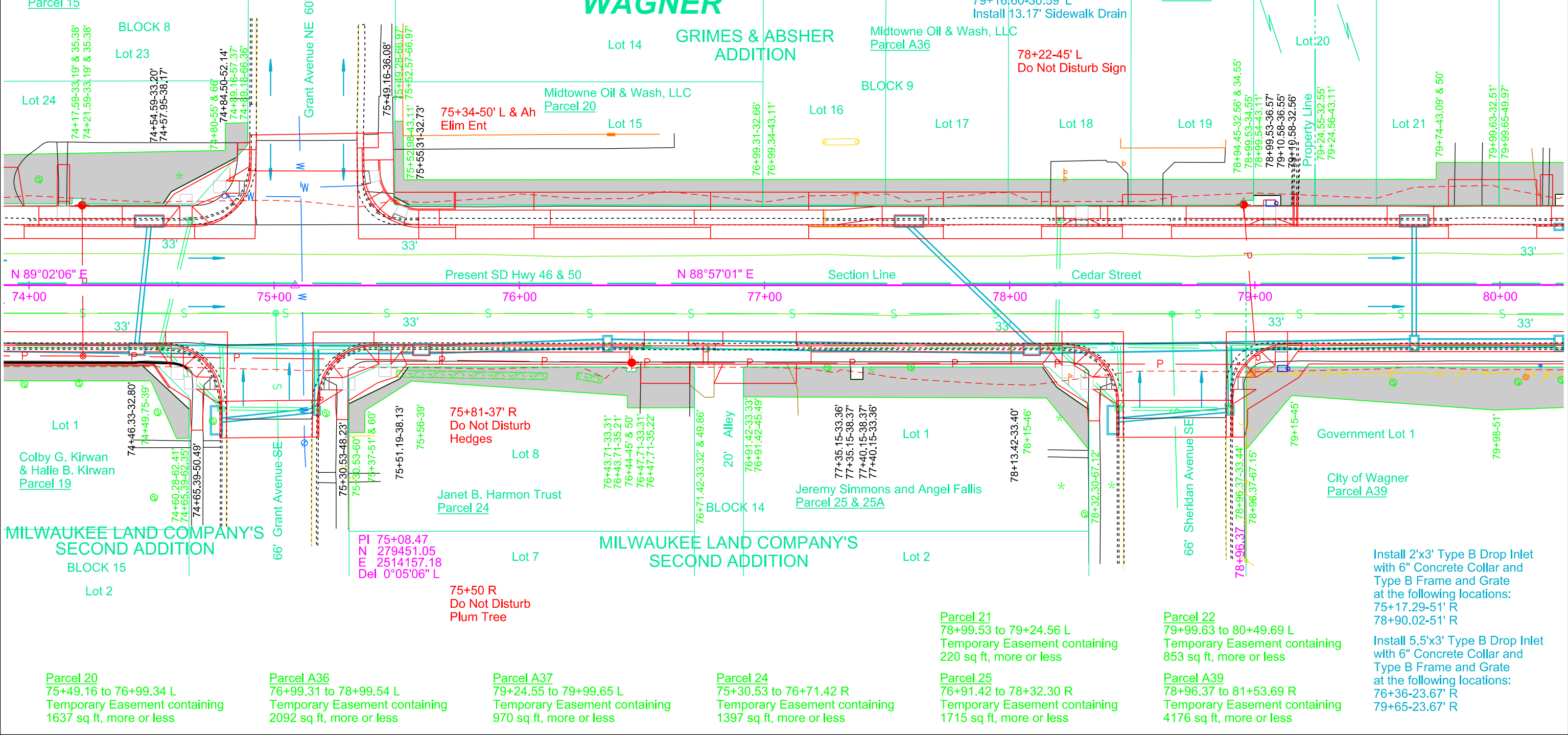
75+17.29-51' R to 75+17.31-26.10' R
Install 18"-24' RCP
(Between Drop Inlet and Tee)

WAGNER

GRIMES & ABSHER ADDITION

Midtowne Oil & Wash, LLC
Parcel 21

Gerald L. Fullmer, Marsha L. Johnson,
Lori J. Broz & Jeff S. Cihak
Parcel A37



Parcel 20
75+49.16 to 76+99.34 L
Temporary Easement containing
1637 sq ft, more or less

Parcel A36
76+99.31 to 78+99.54 L
Temporary Easement containing
2092 sq ft, more or less

Parcel A37
79+24.55 to 79+99.65 L
Temporary Easement containing
970 sq ft, more or less

Parcel 24
75+30.53 to 76+71.42 R
Temporary Easement containing
1397 sq ft, more or less

Parcel 25
76+91.42 to 78+32.30 R
Temporary Easement containing
1715 sq ft, more or less

Parcel A39
78+96.37 to 81+53.69 R
Temporary Easement containing
4176 sq ft, more or less

Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:

75+17.29-51' R
78+90.02-51' R

Install 5.5'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:

76+36-23.67' R
79+65-23.67' R

Plot Scale - 1"=40'

Plotted From - TRSF12139

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87+75-23.67' R to 90+58-23.67' R
Install 48"-280' RCP
(CL 3-280')
(Between Drop Inlets)

90+36.56-50.89' R to 90+58-23.67' R
Install 18"-32' RCP
(Between Drop Inlets)

91+52-23.67' L to 92+04-26.13' L
Install 18"-46' RCP
(Between Drop Inlets)

Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:
90+58-23.67' L
91+52-23.67' L

Install 5.5'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:
87+75-23.67' R
90+58-23.67' R
91+64-23.67' R

Install 3'x4' Type C Drop Inlet
and Type C Frame and Grate
at the following location:
90+36.56-50.89' R

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	B55	B171

Plotting Date: 01/23/2025 Revised 01-22-2025 JWF

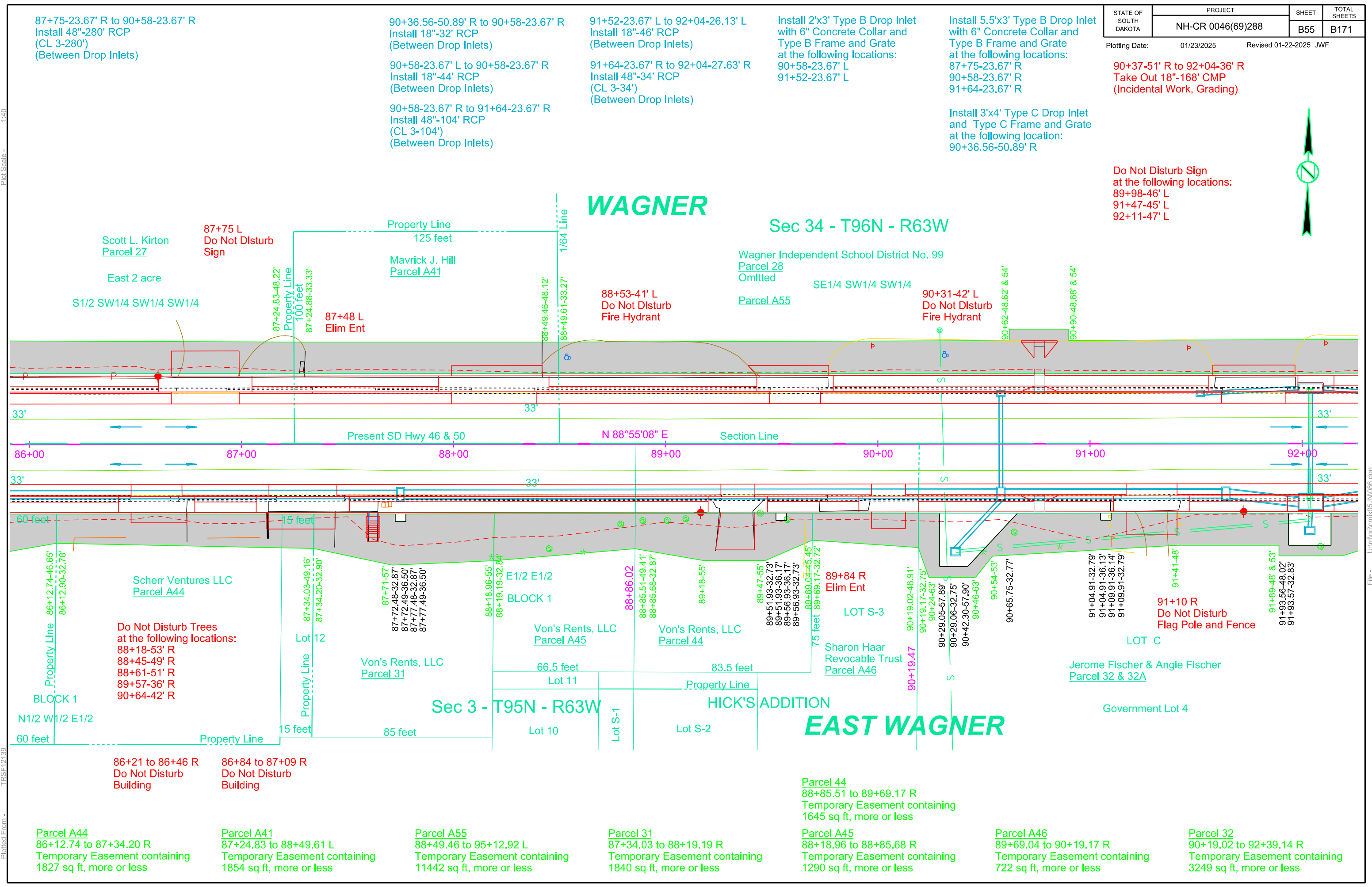
90+37-51' R to 92+04-36' R
Take Out 18"-168' CMP
(Incidental Work, Grading)

Do Not Disturb Sign
at the following locations:
89+98-46' L
91+47-45' L
92+11-47' L



WAGNER

Sec 34 - T96N - R63W



88+53-41' L
Do Not Disturb
Fire Hydrant

90+31-42' L
Do Not Disturb
Fire Hydrant

87+75 L
Do Not Disturb
Sign

87+48 L
Elim Ent

Do Not Disturb Trees
at the following locations:
88+18-53' R
88+45-49' R
88+61-51' R
89+57-36' R
90+64-42' R

89+84 R
Elim Ent

91+10 R
Do Not Disturb
Flag Pole and Fence

86+21 to 86+46 R
Do Not Disturb
Building

86+84 to 87+09 R
Do Not Disturb
Building

Parcel A44
86+12.74 to 87+34.20 R
Temporary Easement containing
1827 sq ft, more or less

Parcel A41
87+24.83 to 88+49.61 L
Temporary Easement containing
1854 sq ft, more or less

Parcel A55
88+49.46 to 95+12.92 L
Temporary Easement containing
11442 sq ft, more or less

Parcel 31
87+34.03 to 88+19.19 R
Temporary Easement containing
1840 sq ft, more or less

Parcel A45
88+18.96 to 88+85.68 R
Temporary Easement containing
1290 sq ft, more or less

Parcel A46
89+69.04 to 90+19.17 R
Temporary Easement containing
722 sq ft, more or less

Parcel 32
90+19.02 to 92+39.14 R
Temporary Easement containing
3249 sq ft, more or less

Plot Scale - 1"=40'

Plotted From - TRSE12139

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Plot Scale - 1"=40'

Plotted From - TRSE12139

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Remove Drop Inlets with Frame & Grate at the following locations:
99+13-39' R
103+26-26' R

98+76-26.13' L to 98+76-27.63' R
Install 18"-48' RCP (Between Drop Inlets)

98+76-27.63' R to 99+52-27' R
Install 48"-68' RCP (CL 3-68") (Between Drop Inlet and Manhole)

Take Out 18" RCP at the following locations (Incidental Work, Grading):
99+08-85' R to 99+13-39' R (46')
99+13-39' R to 99+64-24' R (54')
99+64-24' R to 103+26-26' R (362')
103+26-26' R to 103+26-48' R (21')
103+26-26' R to 107+77-25' R (451')

99+09-85' R to 99+53-66' R
Install 18"-44' RCP (Between Drop Inlets)

99+50-50' L to 99+52-27' R
Install 18"-72' RCP (Between Drop Inlet and Manhole)

99+52-27' R to 101+00-23.67' R
Install 48"-144' RCP (CL 3-144') (Between Drop Inlet and Manhole)

99+52-27' R to 99+53-66' R
Install 18"-34' RCP (Between Drop Inlet and Manhole)

99+52-27' R
Install 96" Round Manhole with Type A9 Frame and Lid & 2-27" Dia x 2" Adjust Rings (Ladder on SE Corner)

101+00-23.67' R to 103+27-27.63' R
Install 48"-220' RCP (CL 3-220') (Between Drop Inlets)

103+27-26.13' L to 103+27-27.63' R
Install 18"-48' RCP (Between Drop Inlets)

103+27-51' R to 103+27-27.63' R
Install 18"-18' RCP (Between Drop Inlets)

103+27-27.63' R to 105+50-23.67' R
Install 48"-216' RCP (CL 3-216') (Between Drop Inlets)

Install 5.5'x3' Type B Drop Inlet with 6" Concrete Collar and Type B Frame and Grate at the following locations:
101+00-23.67' R

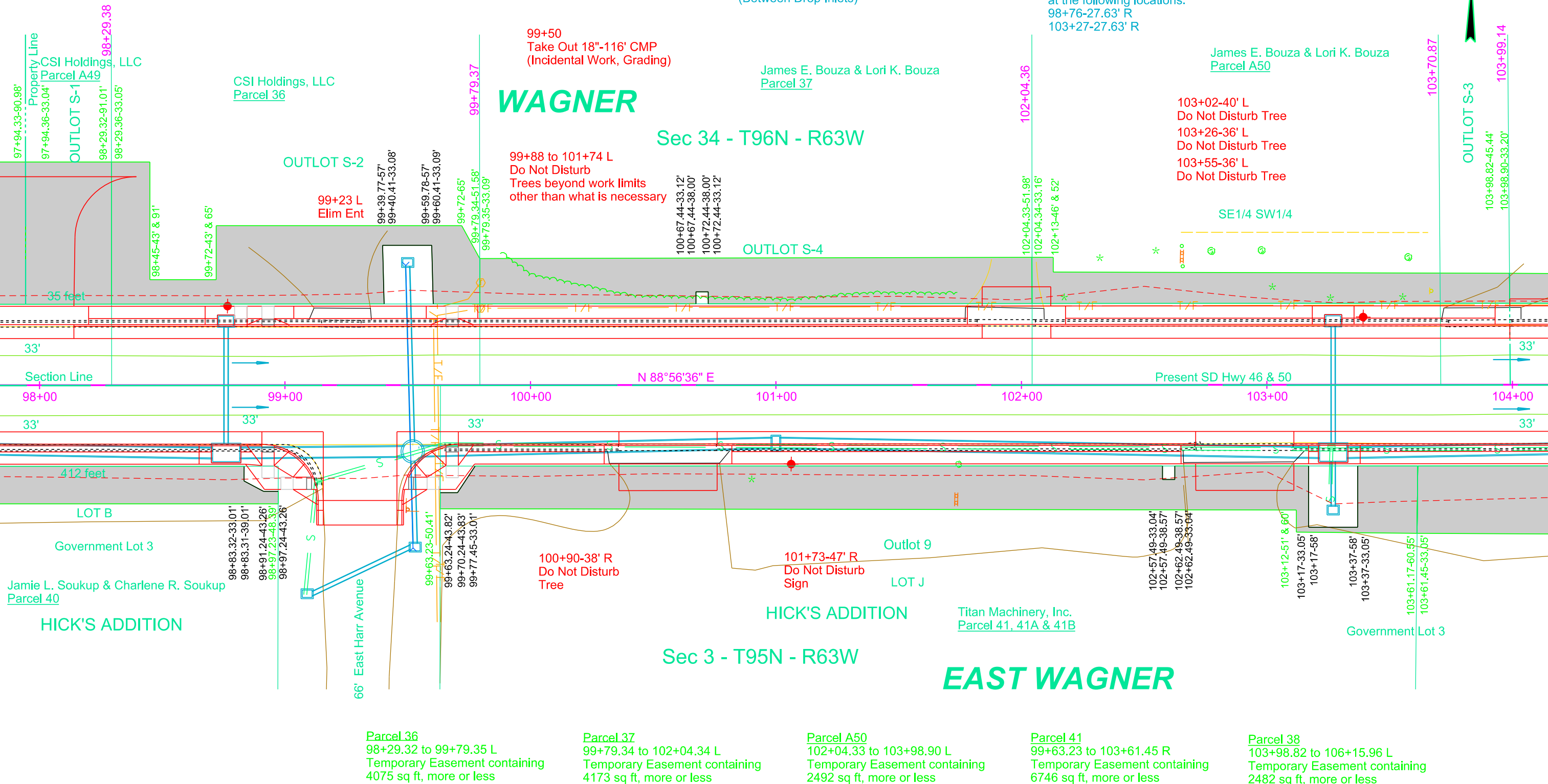
Install 4'x6' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:
98+76-26.13' L
103+27-26.13' L

Install 7'x11' Type S Drop Inlet Base and Precast Concrete Type S Drop Inlet Lid at the following locations:
98+76-27.63' R
103+27-27.63' R

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	B59	B171

Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

Install 3'x4' Type C Drop Inlet and Type C Frame and Grate at the following locations:
99+09-85' R
99+50-50' L
99+53-66' R
103+27-51' R



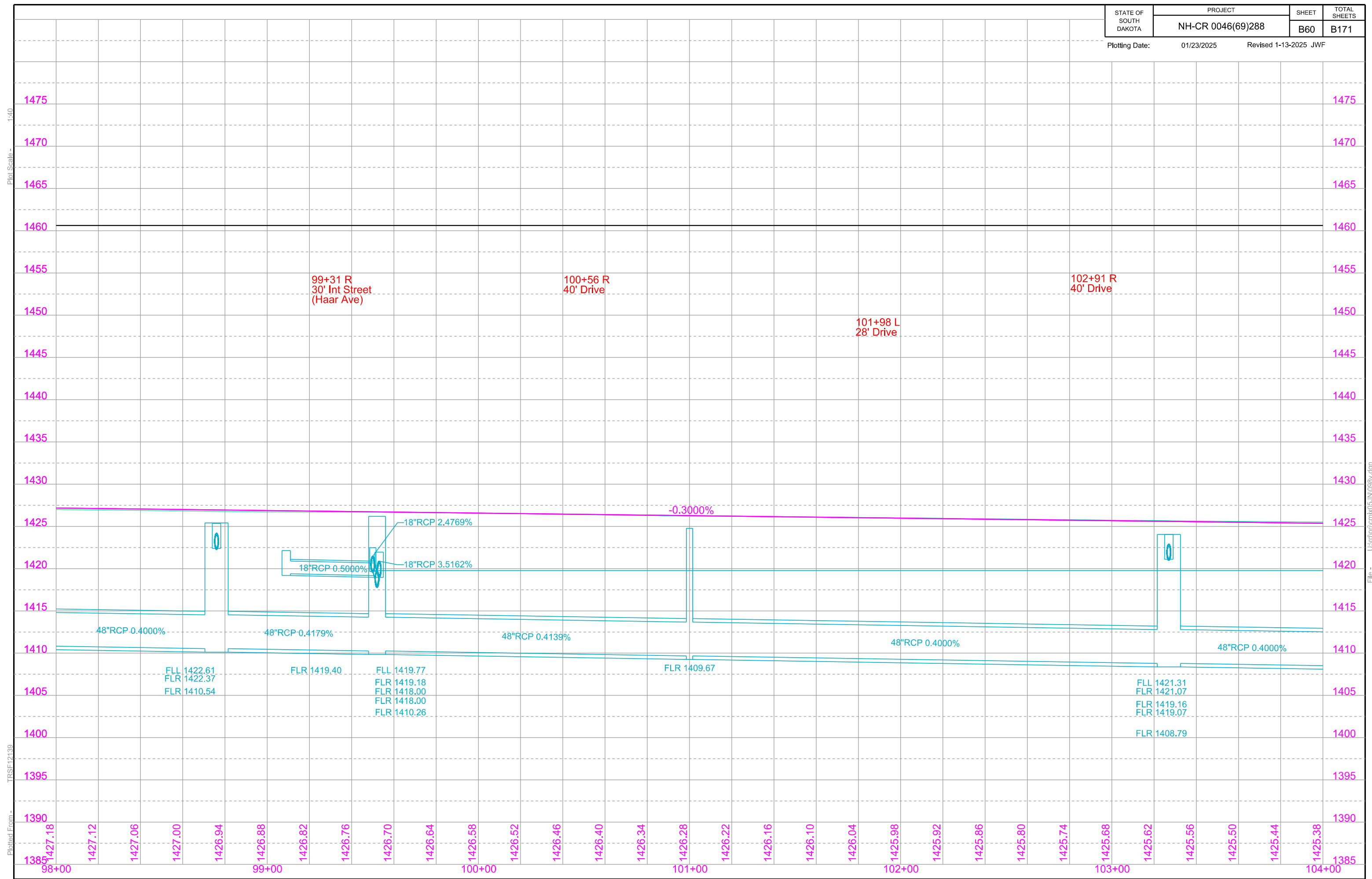
Parcel 36
98+29.32 to 99+79.35 L
Temporary Easement containing
4075 sq ft, more or less

Parcel 37
99+79.34 to 102+04.34 L
Temporary Easement containing
4173 sq ft, more or less

Parcel A50
102+04.33 to 103+98.90 L
Temporary Easement containing
2492 sq ft, more or less

Parcel 41
99+63.23 to 103+61.45 R
Temporary Easement containing
6746 sq ft, more or less

Parcel 38
103+98.82 to 106+15.96 L
Temporary Easement containing
2482 sq ft, more or less



Plot Scale - 1:40

Plotted From - TRSF12139

File - U:\proj\cmix05\N098v.dgn

Remove Drop Inlets
with Frame & Grate
at the following locations:
107+77-25' L
107+77-25' R

105+50-23.67' R to 107+77-27.63' R
Install 48"-220' RCP
(CL 3-220')
(Between Drop Inlets)

107+77-26.13' L to 107+77-27.63' R
Install 18"-48' RCP
(Between Drop Inlets)

107+77-47' R to 107+77-27.63' R
Install 18"-14' RCP
(Between Drop Inlets)

107+77-27.63' R to 110+75-23.67' R
Install 48"-292' RCP
(CL 3-292')
(Between Drop Inlets)

107+76-43' R to 107+77-25' R
Take Out 18"-18' RCP
(Incidental Work, Grading)

107+77-25' R to 107+77-25' L
Take Out 18"-51' RCP
(Incidental Work, Grading)

Install 5.5'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following locations:
105+50-23.67' R

108+18-33' L
Plug 18" RCP

Install 4'x6' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:
107+77-26.13' L

Install 7'x11' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:
107+77-27.63' R

Install 3'x4' Type C Drop Inlet
and Type C Frame and Grate
at the following location:
107+77-47' R



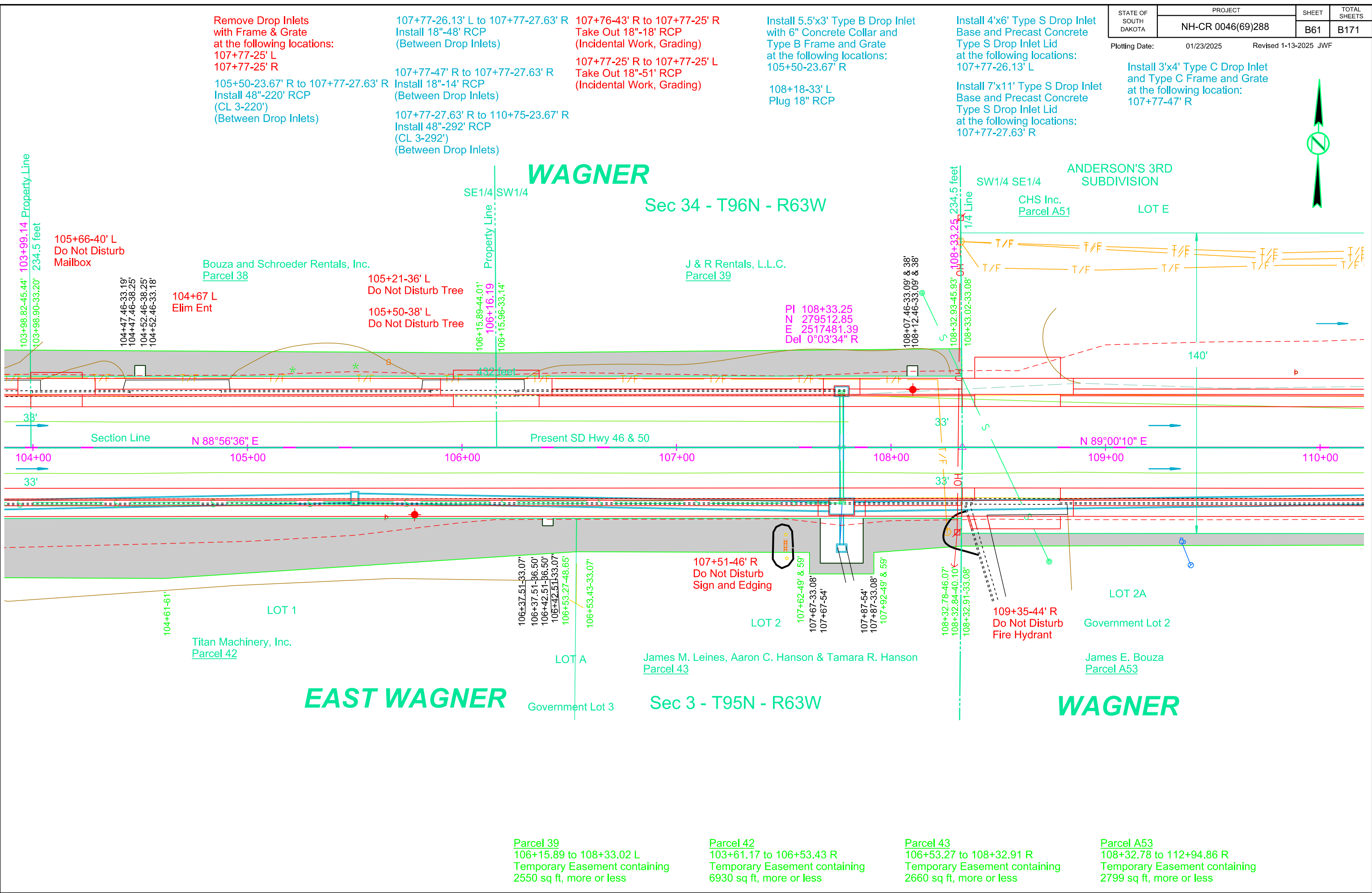
Plot Scale - 1"=40'

Plotted From - TRSF12139

File - U:\traj\emix05\JN1104.dgn

WAGNER

Sec 34 - T96N - R63W

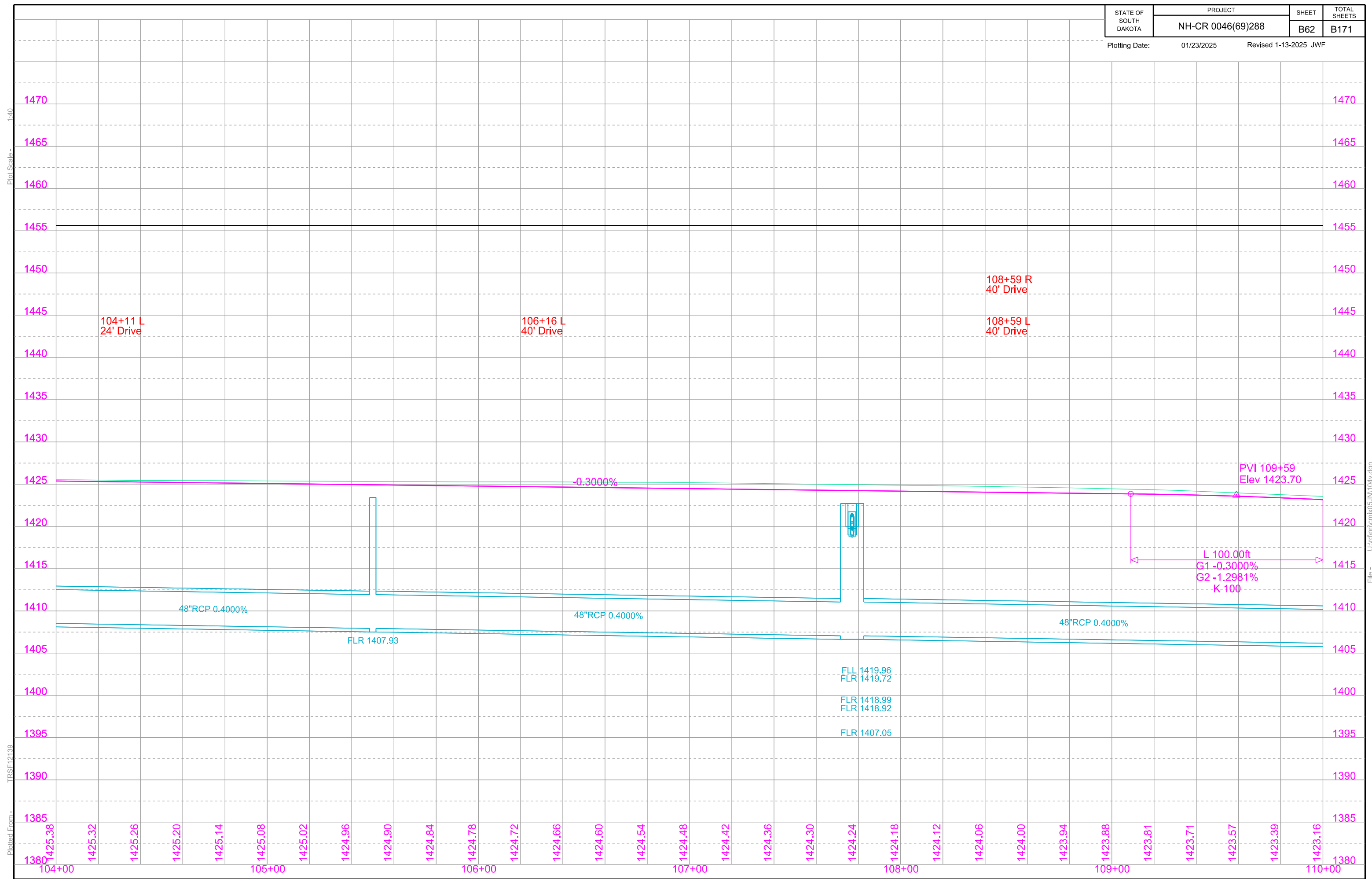


Parcel 39
106+15.89 to 108+33.02 L
Temporary Easement containing
2550 sq ft, more or less

Parcel 42
103+61.17 to 106+53.43 R
Temporary Easement containing
6930 sq ft, more or less

Parcel 43
106+53.27 to 108+32.91 R
Temporary Easement containing
2660 sq ft, more or less

Parcel A53
108+32.78 to 112+94.86 R
Temporary Easement containing
2799 sq ft, more or less



Plot Scale - 1:40

Plotted From - TRSF12139

File - U:\proj\emix05\JN1104.v.dgn

111+53-57' L
Take Out 18"-71' CMP
(Incidental Work, Grading)

Remove Drop Inlet
with Frame & Grate
at the following location:
112+88-26' R

110+75-23.67' R to 110+85-26.13' L
Install 18"-46' RCP
(Between Drop Inlets)

110+75-23.67' R to 112+80-23.67' R
Install 48"-202' RCP
(CL 3-202')
(Between Drop Inlets)

111+08.53-59' L to 111+27.33-59' L
Install 18"-12' RCP Arch
& 1 Safety End
(Between Inlet and Drop Inlet)

111+27.33-59' L to 111+70.67-59' L
Install 18"-42' RCP Arch
(Between Drop Inlets)

111+70.67-59' L to 111+92.37-59' L
Install 18"-16' RCP Arch
& 1 Safety End
(Between Drop Inlet and Outlet)

110+94-99' L
Do Not Disturb
Fire Hydrant
111+03-99' L
Do Not Disturb
Light Pole

112+88-26' R to 113+32-43' R
Take Out 18"-47' RCP
(Incidental Work, Grading)

113+29-60' L
Take Out 18"-95' CMP
(Incidental Work, Grading)

112+80-23.67' L to 112+80-23.67' R
Install 18"-44' RCP
(Between Drop Inlets)

112+80-23.67' R to 114+68-27.63' R
Install 48"-182' RCP
(CL 3-182')
(Between Drop Inlets)

ANDERSON'S 3RD
SUBDIVISION

Aaron C. Hanson and Tamara R. Hanson and
Valley Pump & Casino, Inc.
Parcel A52

WAGNER

113+00.53-59' L to 113+24.33-59' L
Install 18"-16' RCP
& 1 Safety End
(Between Inlet and Drop Inlet)

113+24.33-59' L to 113+67.67-59' L
Install 18"-42' RCP
(Between Drop Inlets)

113+67.67-59' L to 113+91.07-59' L
Install 18"-16' RCP
& 1 Safety End
(Between Drop Inlet and Outlet)

113+82 to 124+66 L
Do Not Disturb
Fence

114+80
Take Out 30"-156' RCP
(Incidental Work, Grading)

114+48-65' R to 114+68-27.63' R
Install 24"-38' RCP
(Between Drop Inlets)

114+68-27.63' R to 115+22.92-74.32' L
Install 48"-114' RCP
(CL 3-114')
& 1 Flared End
(Between Drop Inlet and Outlet)

Install 4'x11' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:
110+85-26.13' L

Sec 34 - T96N - R63W

S1/2 SE1/4

James E. Bouza & Lori K. Bouza
(INFORMATION ONLY)

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B63	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

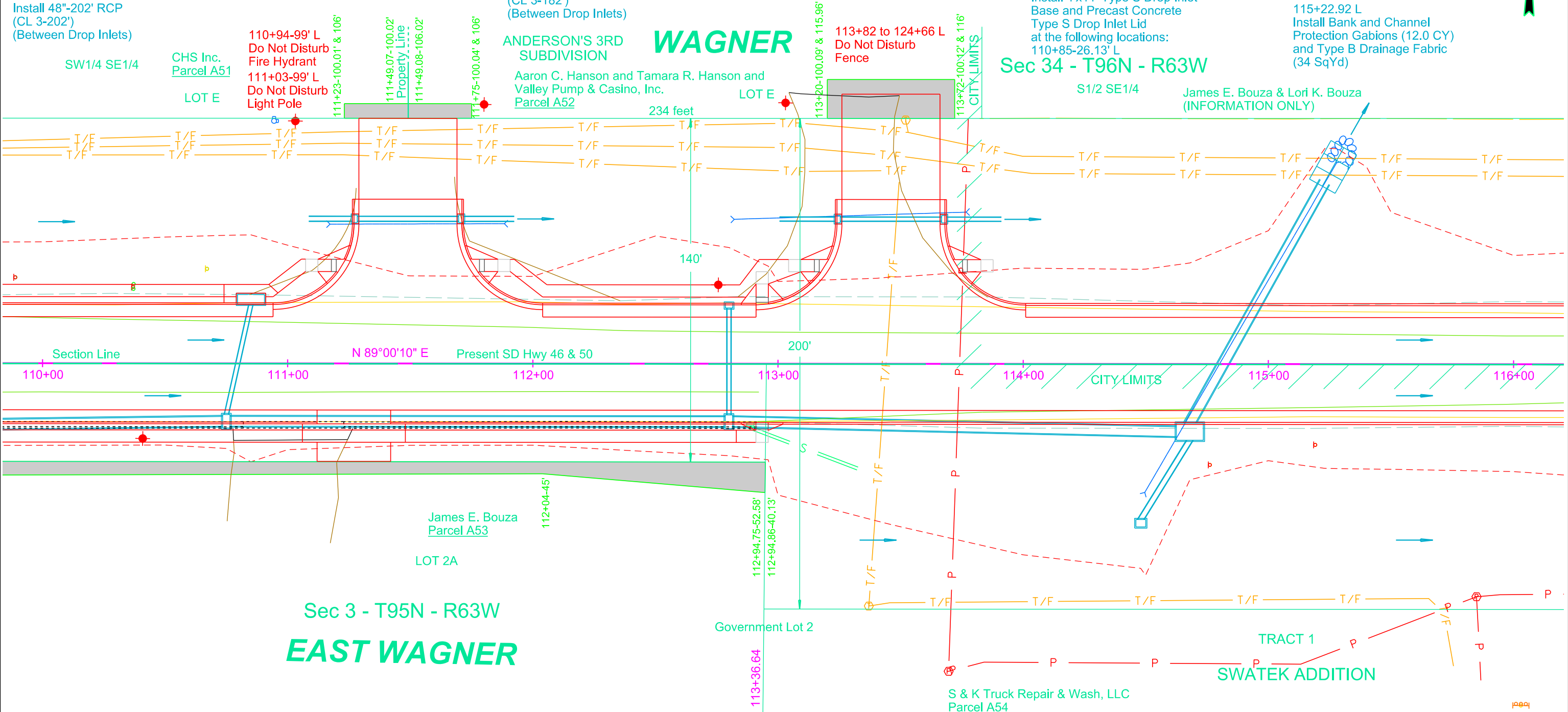
Install 2'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following location:
111+27.33-59' L
111+70.67-59' L
112+80-23.67' L
113+24.33-59' L
113+67.67-59' L
115+22.92 L
Install Bank and Channel
Protection Gabions (12.0 CY)
and Type B Drainage Fabric
(34 SqYd)



Plot Scale - 1"=40'

Plotted From - TRSE12139

File - U:\traj\temix05\JN110.dgn



Sec 3 - T95N - R63W
EAST WAGNER

Parcel A51
111+23.00 to 111+49.08 L
Temporary Easement containing
156 sq ft, more or less

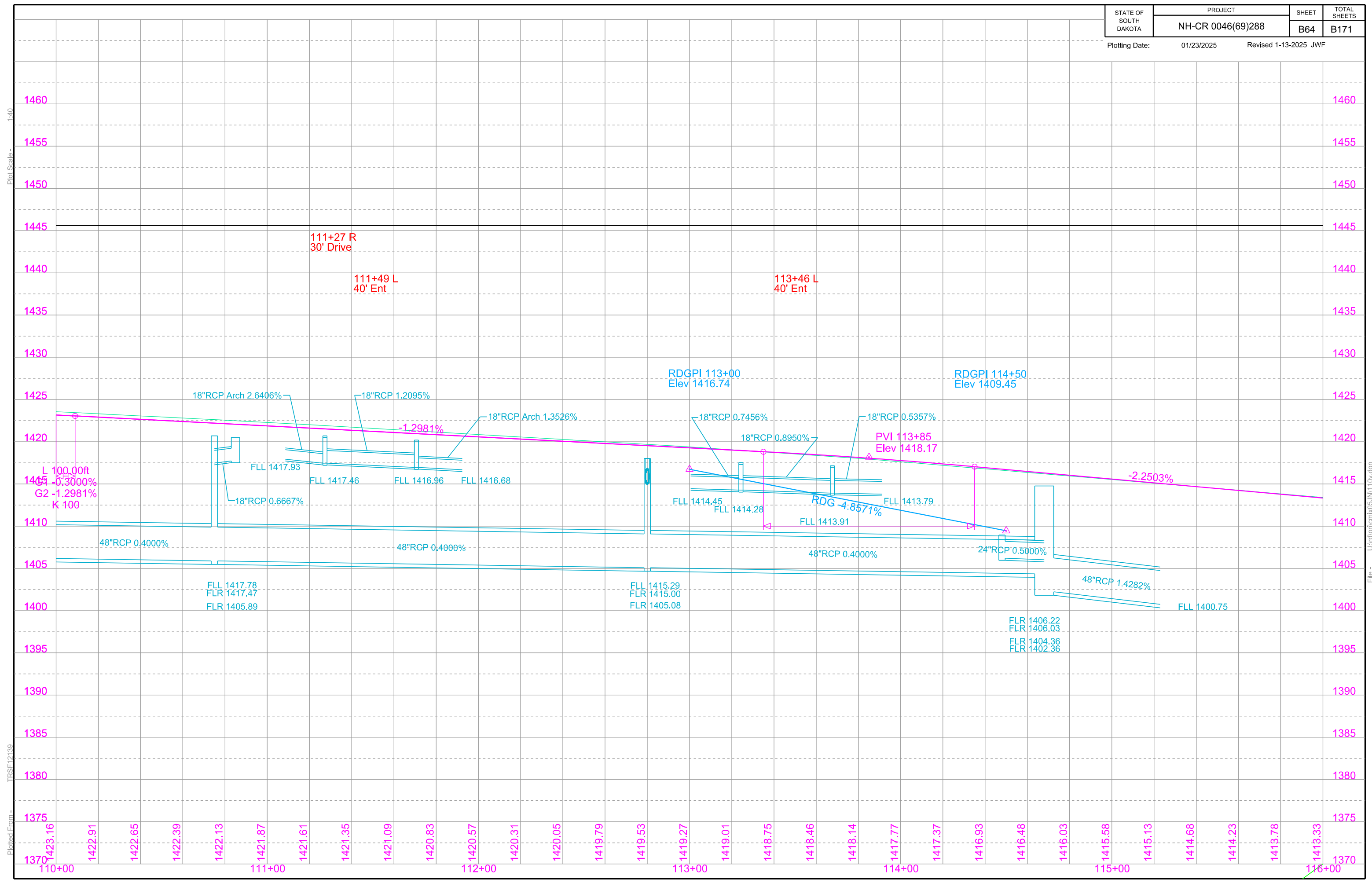
Parcel A52
111+49.07 to 111+75.00 L
Temporary Easement containing
155 sq ft, more or less

Parcel A52
113+20.00 to 113+72.00 L
Temporary Easement containing
825 sq ft, more or less

Install 3'x4' Type C Drop Inlet
with 6" Concrete Collar and
Type C Frame and Grate
at the following locations:
114+48-65' R

Install 7'x11' Type S Drop Inlet
Base and Precast Concrete
Type S Drop Inlet Lid
at the following locations:
114+68-27.63' R

Install 5.5'x3' Type B Drop Inlet
with 6" Concrete Collar and
Type B Frame and Grate
at the following location:
110+75-23.67' R
112+80-23.67' R



Plot Scale - 1:40

Plotted From - TRSF12139

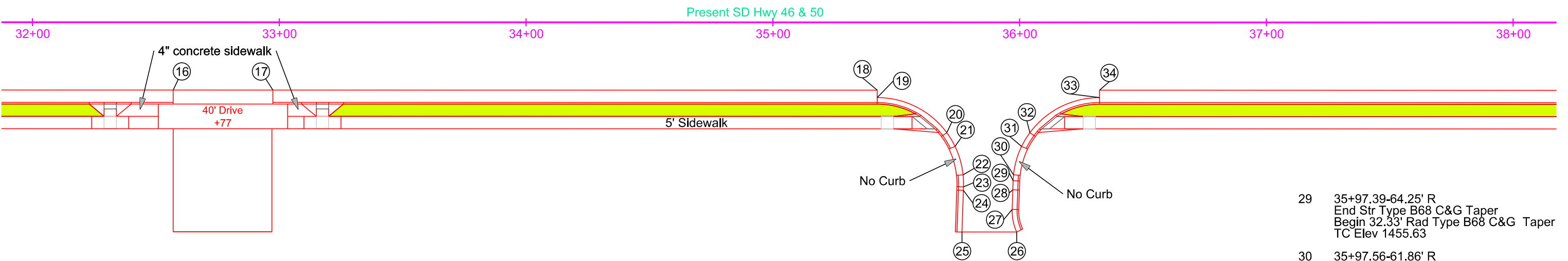
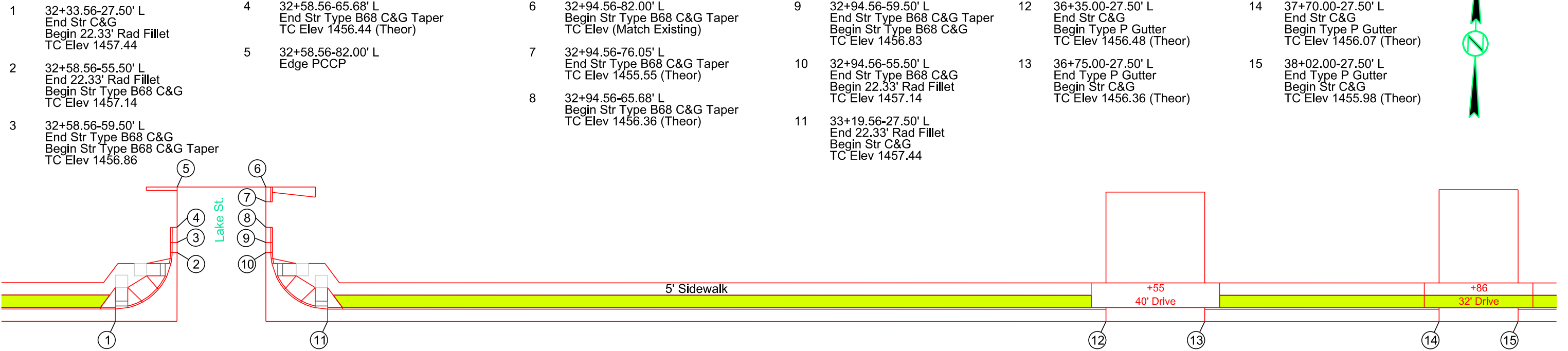
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CURB AND GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B93	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

Note: All curb and gutter shown on this sheet is Modified Type B68 and all gutter is Modified Type P8 except as noted.
 All sidewalk is 5' wide except as noted.
 All radii listed for both Fillets and C&G are measured to the Back of Curb
 All PCC approach pavement shown on this sheet is 8" Type A except as noted.



- 1 32+33.56-27.50' L
End Str C&G
Begin 22.33' Rad Fillet
TC Elev 1457.44
- 2 32+58.56-55.50' L
End 22.33' Rad Fillet
Begin Str Type B68 C&G
TC Elev 1457.14
- 3 32+58.56-59.50' L
End Str Type B68 C&G
Begin Str Type B68 C&G Taper
TC Elev 1456.86
- 4 32+58.56-65.68' L
End Str Type B68 C&G Taper
TC Elev 1456.44 (Theor)
- 5 32+58.56-82.00' L
Edge PCCP

- 6 32+94.56-82.00' L
Begin Str Type B68 C&G Taper
TC Elev (Match Existing)
- 7 32+94.56-76.05' L
End Str Type B68 C&G Taper
TC Elev 1455.55 (Theor)
- 8 32+94.56-65.68' L
Begin Str Type B68 C&G Taper
TC Elev 1456.36 (Theor)

- 9 32+94.56-59.50' L
End Str Type B68 C&G Taper
Begin Str Type B68 C&G
TC Elev 1456.83
- 10 32+94.56-55.50' L
End Str Type B68 C&G
Begin 22.33' Rad Fillet
TC Elev 1457.14
- 11 33+19.56-27.50' L
End 22.33' Rad Fillet
Begin Str C&G
TC Elev 1457.44

- 12 36+35.00-27.50' L
End Str C&G
Begin Type P Gutter
TC Elev 1456.48 (Theor)
- 13 36+75.00-27.50' L
End Type P Gutter
Begin Str C&G
TC Elev 1456.36 (Theor)

- 14 37+70.00-27.50' L
End Str C&G
Begin Type P Gutter
TC Elev 1456.07 (Theor)
- 15 38+02.00-27.50' L
End Type P Gutter
Begin Str C&G
TC Elev 1455.98 (Theor)

- 16 32+57.00-27.50' R
End Str C&G
Begin Type P Gutter
TC Elev 1457.28 (Theor)
- 17 32+97.42-27.50' R
End Type P Gutter
Begin Str C&G
TC Elev 1457.28 (Theor)

- 18 35+42.30-27.50' R
End Str C&G
TC Elev 1456.54
- 19 35+42.30-30.50' R
Begin 32.33' Rad Type B68 C&G
TC Elev 1456.54
- 20 35+70.51-44.77' R
End 32.33' Rad Type B68 C&G
Begin 32.33' Rad Taper Type B68 C&G
TC Elev 1456.45
- 21 35+73.84'-50.32' R
End 32.33' Rad Taper Type B68 C&G
TC Elev 1456.19 (Theor)

- 22 35+77.11-61.85' R
Begin 32.33' Rad Type B68 C&G Taper
TC Elev 1455.66 (Theor)
- 23 35+77.28-66.72' R
End 32.33' Rad Type B68 C&G Taper
Begin Str Type B68 C&G Taper
TC Elev 1455.76
- 24 35+77.24-68.09' R
End Str Type B68 C&G Taper
Begin Str Type B68 C&G
TC Elev 1455.79
- 25 35+76.65-85' R
End Str Type B68 C&G
TC Elev (Match Existing)

- 26 35+98.84-84.99' R
Begin 17.33' Rad Type B68 C&G
TC Elev (Match Existing)
- 27 35+96.98-75.83' R
End 17.33' Rad Type B68 C&G
Begin Str Type B68 C&G
TC Elev 1455.76
- 28 35+97.26-67.90' R
End Str Type B68 C&G
Begin Str Type B68 C&G Taper
TC Elev 1455.67

- 29 35+97.39-64.25' R
End Str Type B68 C&G Taper
Begin 32.33' Rad Type B68 C&G Taper
TC Elev 1455.63
- 30 35+97.56-61.86' R
End 32.33' Rad Type B68 C&G Taper
TC Elev 1455.60 (Theor)
- 31 36+00.83-50.33' R
Begin 32.33' Rad Type B68 C&G Taper
TC Elev 1456.11 (Theor)
- 32 36+04.16-44.77' R
End 32.33' Rad Type B68 C&G Taper
Begin 32.33' Rad Type B68 C&G
TC Elev 1456.35
- 33 36+32.37-30.50' R
End 32.33' Rad Type B68 C&G
TC Elev 1456.27
- 34 36+32.37-30.50' R
Begin Str C&G
TC Elev 1456.27

Plot Scale - 1"=40'

Plotted From - TRSF12139

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CURB AND GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	B94	B171

Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

Note: All curb and gutter shown on this sheet is Modified Type B68 and all gutter is Modified Type P8 except as noted.
 All Radii listed for both Fillets and C&G are measured to the Back of Curb.
 All PCC approach pavement shown on this sheet is 8" Type A except as noted.
 All sidewalk is 5' wide except as noted.

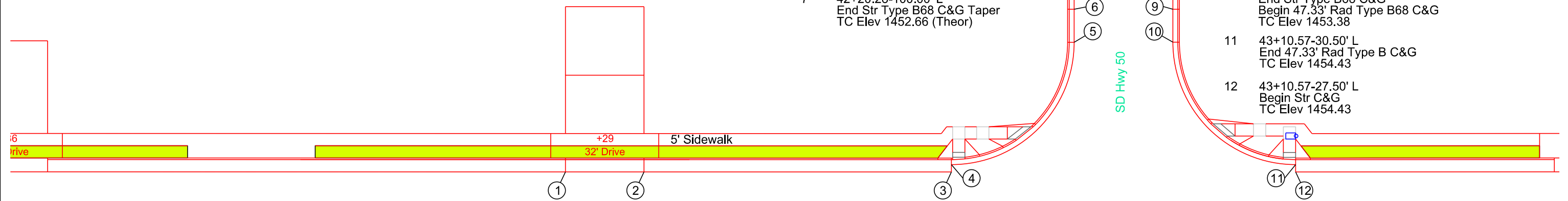


- 1 40+12.99-27.50' L
End Str C&G
Begin Type P Gutter
TC Elev 1455.34 (Theor)
- 2 40+44.99-27.50' L
End Type P Gutter
Begin Str C&G
TC Elev 1455.24 (Theor)

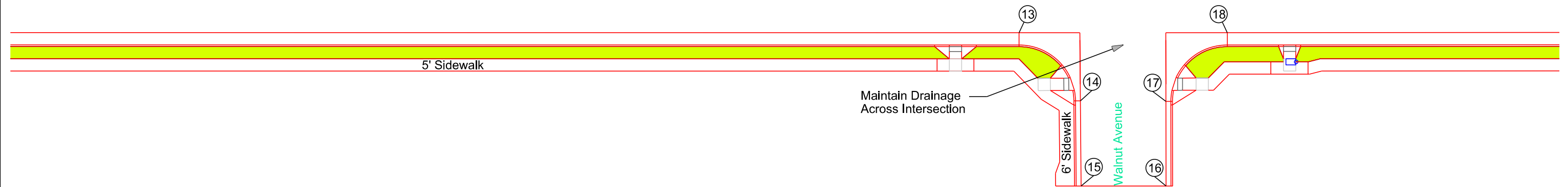
- 3 41+70.29-27.50' L
End Str C&G
TC Elev 1454.86
- 4 41+70.29-30.50' L
Begin 47.33' Rad Type B68 C&G
TC Elev 1454.86

- 5 42+20.28-80.50' L
End 47.33' Rad Type B68 C&G
Begin Str Type B68 C&G
TC Elev 1453.42
- 6 42+20.28-94.00' L
End Str Type B68 C&G
Begin Str Type B68 C&G Taper
TC Elev 1452.89
- 7 42+20.28-100.00' L
End Str Type B68 C&G Taper
TC Elev 1452.66 (Theor)

- 8 42+60.59-99.99' L
Begin Str Type B68 C&G Taper
TC Elev 1452.69 (Theor)
- 9 42+60.58-93.99' L
End Str Type B68 C&G Taper
Begin Str Type B68 C&G
TC Elev 1452.90
- 10 42+60.57-80.50' L
End Str Type B68 C&G
Begin 47.33' Rad Type B68 C&G
TC Elev 1453.38
- 11 43+10.57-30.50' L
End 47.33' Rad Type B C&G
TC Elev 1454.43
- 12 43+10.57-27.50' L
Begin Str C&G
TC Elev 1454.43



Present SD Hwy 46 & 50



- 13 41+97.84-27.50' R
End Str C&G
Begin 22.33' Rad Fillet
TC Elev 1454.56
- 14 42+22.84-55.29' R
End 22.33' Rad Fillet
Begin Str Type B68 C&G
TC Elev 1454.72
- 15 42+23.13-90.00' R
End Str Type B68 C&G
TC Elev (Match Existing)

- 16 42+57.72-90.01' R
Begin Str Type B68 C&G
TC Elev (Match Existing)
- 17 42+57.66-55.54' R
End Str Type B68 C&G
Begin 22.33' Rad Fillet
TC Elev 1454.61
- 18 42+82.66-27.50' R
End 22.33' Rad Fillet
Begin Str C&G
TC Elev 1454.30

Plot Scale - 1"=40'

Plotted From - TRSF12139

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CURB AND GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B104	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 01-22-2025 JWF

Note: All curb and gutter shown on this sheet is Modified Type B68 and all gutter is Modified Type P8 except as noted.
 All sidewalk is 5' wide except as noted.
 All 2.5' boulevard shown on this sheet is 4" colored concrete sidewalk except as noted
 All radii listed for both Fillets and C&G are measured to the Back of Curb
 All PCC approach pavement shown on this sheet is 6" Special except as noted.



1 98+14.00-19.00' L
 End Type P Gutter
 Begin Str C&G
 TC Elev 1427.09 (Theor)

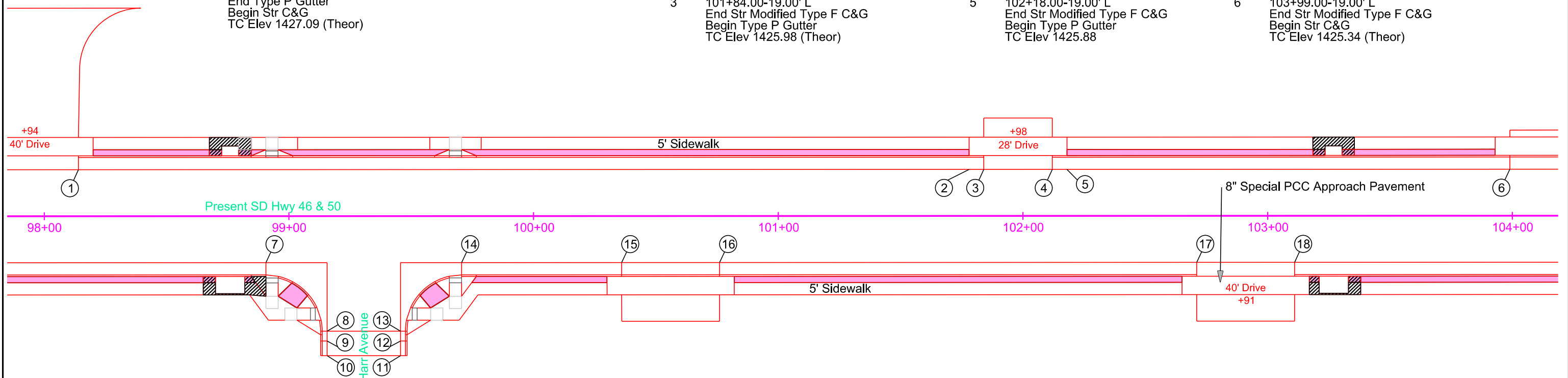
2 101+78.00-19.00' L
 End Str C&G
 Begin Str Modified Type F C&G
 TC Elev 1426.00

4 102+12.00-19.00' L
 End Type P Gutter
 Begin Str Modified Type F C&G
 TC Elev 1425.91

3 101+84.00-19.00' L
 End Str Modified Type F C&G
 Begin Type P Gutter
 TC Elev 1425.98 (Theor)

5 102+18.00-19.00' L
 End Str Modified Type F C&G
 Begin Type P Gutter
 TC Elev 1425.88

6 103+99.00-19.00' L
 End Str Modified Type F C&G
 Begin Str C&G
 TC Elev 1425.34 (Theor)



7 98+90.58-19.00' R
 End Str C&G
 Begin 22.33' Rad Fillet
 TC Elev 1426.87

8 99+15.58-47.01' R
 End 22.33' Rad Fillet
 Begin Str Type B68 C&G
 TC Elev 1426.43

9 99+15.58-51.01' R
 End Str Type B68 C&G
 Begin Str Type B68 C&G Taper
 TC Elev 1426.20

10 99+15.58-57.01' R
 End Str Type B68 C&G Taper
 TC Elev 1425.85 (Theor)

11 99+45.58-56.99' R
 Begin Str Type B68 C&G Taper
 TC Elev 1426.11 (Theor)

12 99+45.58-50.99' R
 End Str Type B68 C&G Taper
 Begin Str Type B68 C&G
 TC Elev 1426.25

13 99+45.58-46.99' R
 End Str Type B68 C&G
 Begin 22.33' Rad Fillet
 TC Elev 1426.34

14 99+70.58-19.00' R
 End 22.33' Rad Fillet
 Begin Str C&G
 TC Elev 1426.63

15 100+36.00-19.00' R
 End Str C&G
 Begin Type P Gutter
 TC Elev 1426.43 (Theor)

16 100+76.00-19.00' R
 End Type P Gutter
 Begin Str C&G
 TC Elev 1426.31 (Theor)

17 102+71.00-19.00' R
 End Str C&G
 Begin Type P Gutter
 TC Elev 1425.72 (Theor)

18 103+11.00-19.00' R
 End Type P Gutter
 Begin Str C&G
 TC Elev 1425.60 (Theor)

Plot Scale - 1"=40'

Plotted From - TRSF12139

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CURB AND GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B105	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

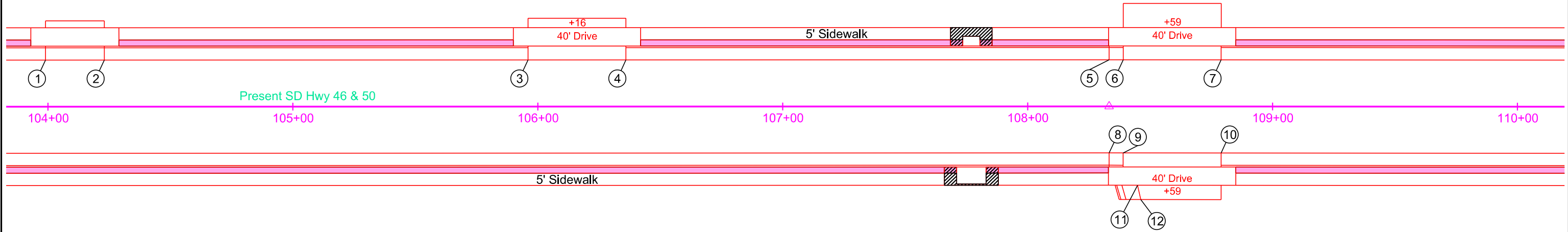
Note: All curb and gutter shown on this sheet is Modified Type B68 and all gutter is Modified Type P8 except as noted.
 All sidewalk is 5' wide except as noted.
 All 2.5' boulevard shown on this sheet is 4" colored concrete sidewalk except as noted
 All radii listed for both Fillets and C&G are measured to the Back of Curb
 All PCC approach pavement shown on this sheet is 8" Special except as noted.



- 1 103+99.00-19.00' L
End Str C&G
Begin Type P Gutter
TC Elev 1425.34 (Theor)
- 2 104+23.00-19.00' L
End Type P Gutter
Begin Str C&G
TC Elev 1425.27 (Theor)

- 3 105+96.00-19.00' L
End Str C&G
Begin Type P Gutter
TC Elev 1424.75 (Theor)
- 4 106+36.00-19.00' L
End Type P Gutter
Begin Str C&G
TC Elev 1424.63 (Theor)

- 5 108+33.25-19.00' L
End Str C&G
Begin Str C&G
TC Elev 1424.04 (Theor)
- 6 108+39.00-19.00' L
End Str C&G
Begin Type P Gutter
TC Elev 1424.02 (Theor)
- 7 108+79.00-19.00' L
End Type P Gutter
Begin Str C&G
TC Elev 1423.90 (Theor)



- 8 108+33.27-19.00' R
End Str C&G
Begin Str C&G
TC Elev 1424.04 (Theor)
- 9 108+39.00-19.00' R
End Str C&G
Begin Type P Gutter
TC Elev 1424.02 (Theor)
- 10 108+79.00-19.00' R
End Type P Gutter
Begin Str C&G
TC Elev 1423.90 (Theor)
- 11 108+44.89-32.17' R
Begin Str Fillet
TC Elev (Set in Field) (Theor)
- 12 108+46.24-38.00' R
End Str Fillet
TC Elev (Match Existing)

Plot Scale - 1"=40'

Plotted From - TRSF12139

File - U:\tr\proj\mix05\JN1104\eg.dgn

CURB AND GUTTER LAYOUT

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET B106	TOTAL SHEETS B171
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Plotting Date: 01/23/2025 Revised 1-13-2025 JWF

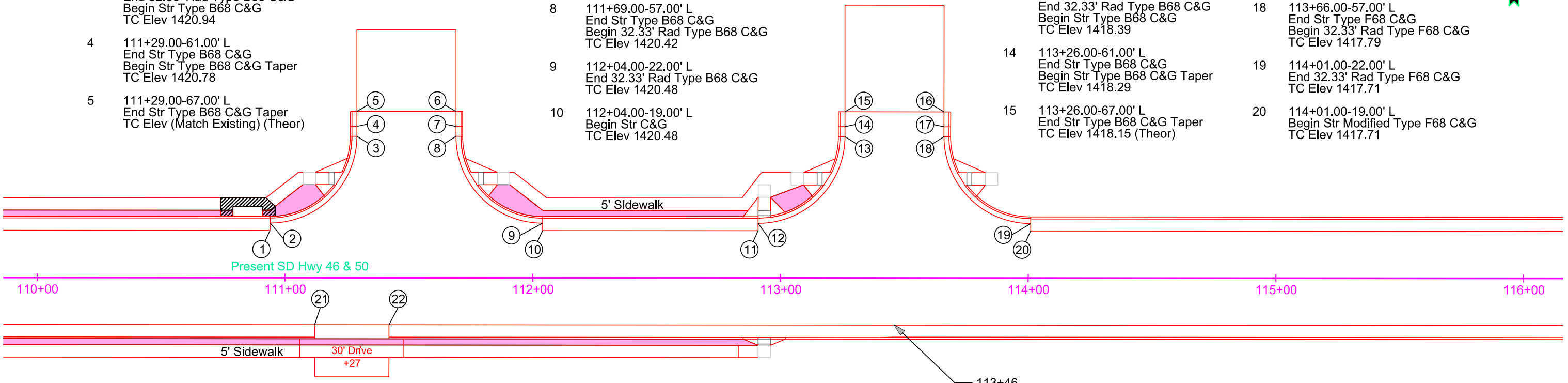
Note: All curb and gutter shown on this sheet is Modified Type B68 and all gutter is Modified Type P8 except as noted.
 All sidewalk is 5' wide except as noted.
 All 2.5' boulevard shown on this sheet is 4" colored concrete sidewalk except as noted.
 All radii listed for both Fillets and C&G are measured to the Back of Curb
 All PCC approach pavement shown on this sheet is 6" Special except as noted.

- 1 110+94.00-19.00' L
End Str C&G
TC Elev 1421.91
- 2 110+94.00-22.00' L
Begin 32.33' Rad Type B68 C&G
TC Elev 1421.91
- 3 111+29.00-57.00' L
End 32.33' Rad Type B68 C&G
Begin Str Type B68 C&G
TC Elev 1420.94
- 4 111+29.00-61.00' L
End Str Type B68 C&G
Begin Str Type B68 C&G Taper
TC Elev 1420.78
- 5 111+29.00-67.00' L
End Str Type B68 C&G Taper
TC Elev (Match Existing) (Theor)

- 6 111+69.00-67.00' L
Begin Str Type B68 C&G Taper
TC Elev 1420.10 (Theor)
- 7 111+69.00-61.00' L
End Str Type B68 C&G Taper
Begin Str Type B68 C&G
TC Elev 1420.29
- 8 111+69.00-57.00' L
End Str Type B68 C&G
Begin 32.33' Rad Type B68 C&G
TC Elev 1420.42
- 9 112+04.00-22.00' L
End 32.33' Rad Type B68 C&G
TC Elev 1420.48
- 10 112+04.00-19.00' L
Begin Str C&G
TC Elev 1420.48

- 11 112+91.00-19.00' L
End Str C&G
TC Elev 1419.35
- 12 112+91.00-22.00' L
Begin 32.33' Rad Type B68 C&G
TC Elev 1419.35
- 13 113+26.00-57.00' L
End 32.33' Rad Type B68 C&G
Begin Str Type B68 C&G
TC Elev 1418.39
- 14 113+26.00-61.00' L
End Str Type B68 C&G
Begin Str Type B68 C&G Taper
TC Elev 1418.29
- 15 113+26.00-67.00' L
End Str Type B68 C&G Taper
TC Elev 1418.15 (Theor)

- 16 113+66.00-67.00' L
Begin Str Type F68 C&G Taper
TC Elev 1417.31 (Theor)
- 17 113+66.00-61.00' L
End Str Type F68 C&G Taper
Begin Str Type F68 C&G
TC Elev 1417.60
- 18 113+66.00-57.00' L
End Str Type F68 C&G
Begin 32.33' Rad Type F68 C&G
TC Elev 1417.79
- 19 114+01.00-22.00' L
End 32.33' Rad Type F68 C&G
TC Elev 1417.71
- 20 114+01.00-19.00' L
Begin Str Modified Type F68 C&G
TC Elev 1417.71



- 21 111+12.00-19.00' R
End Str C&G
Begin Type P Gutter
TC Elev 1421.33 (Theor)
- 22 111+42.00-19.00' R
End Type P Gutter
Begin Str C&G
TC Elev 1420.94 (Theor)

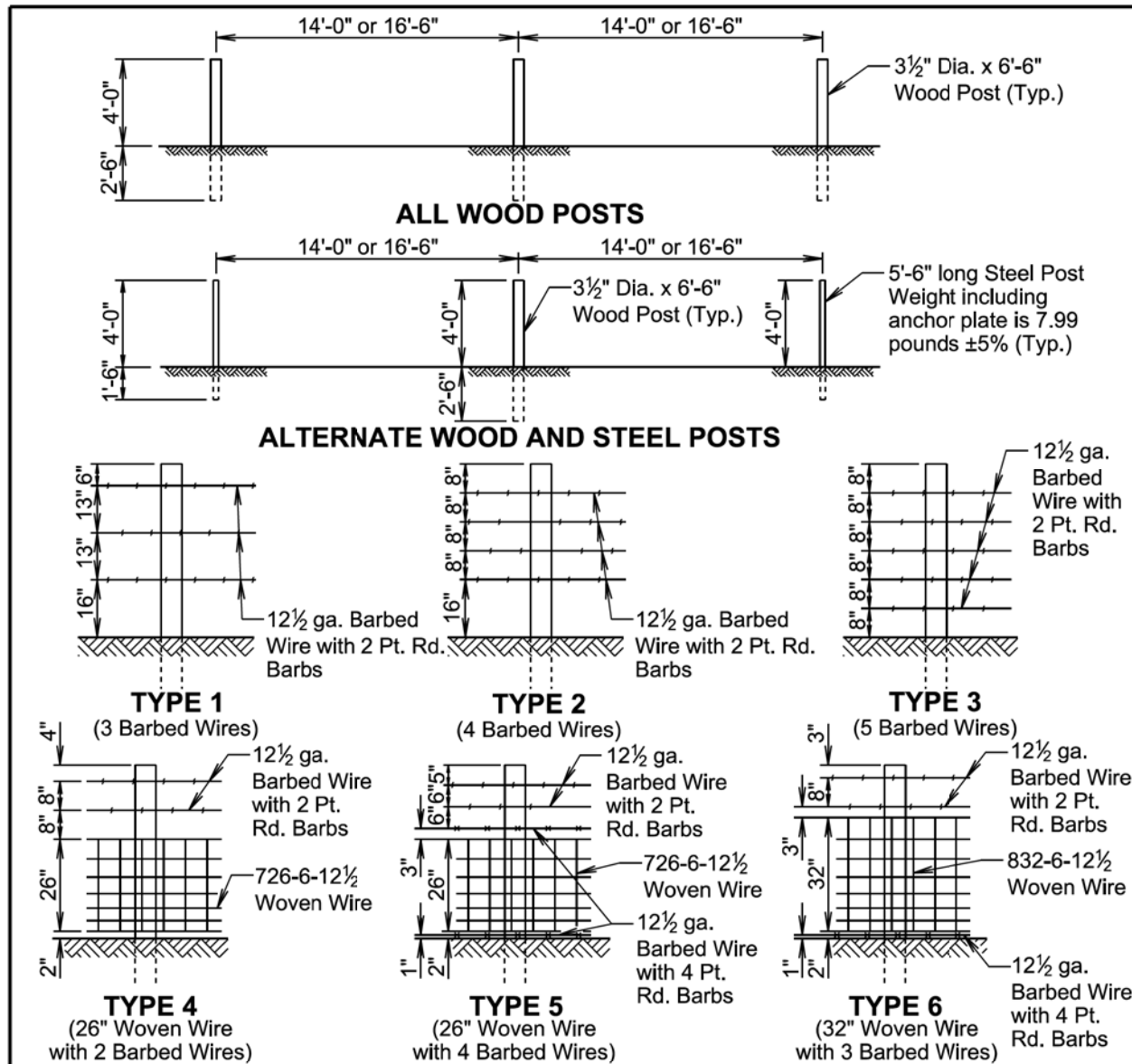
113+46
End Modified Type B68
Begin Modified Type F68

Plot Scale - 1"=40'

Plotted From - TRSF12139

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Plot Scale - 1:200



TYPE OF FENCE		LINE POST SPACING	WIRE GAGE	BARBED WIRE		WOVEN WIRE
TYPE	DESCRIPTION			NUMBER AND SHAPE OF BARBS	STYLE OR DESIGN NO.	
1	3 Barbed Wires	16'-6"	12½	2 Point Round	—	
2	4 Barbed Wires	16'-6"	12½	2 Point Round	—	
3	5 Barbed Wires	16'-6"	12½	2 Point Round	—	
4	26" Woven Wire with 2 Barbed Wires	14'-0"	12½	2 Point Round	726-6-12½	
5	26" Woven Wire with 4 Barbed Wires	14'-0"	12½	2 wires with 2 Pt. Rd. 2 wires with 4 Pt. Rd.	726-6-12½	
6	32" Woven Wire with 3 Barbed Wires	14'-0"	12½	2 wires with 2 Pt. Rd. 1 wire with 4 Pt. Rd.	832-6-12½	

GENERAL NOTES:

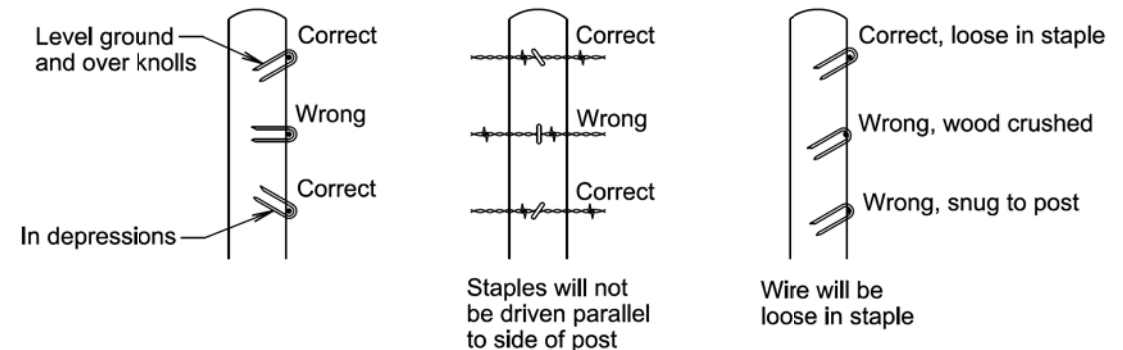
Fence types designated on the plans that are followed by the letter S will have smooth (barbless) wires.

When type 5S or 6S is designated the bottom wire may be barbed, smooth, or left off.

All degrees of curvature stated for fence are at centerline of roadway.

June 26, 2019

S D D O T	RIGHT-OF-WAY FENCE	PLATE NUMBER 620.01
	Published Date: 2025	Sheet 1 of 1



STAPLE INSTALLATION

GENERAL NOTES:

The Right-of-Way fence will consist of barbed wire or a combination of woven wire and barbed wire. The barbed wire and/or woven wire will be fastened to all wood posts or fastened to alternating wood and steel posts. Only wood posts will be used for brace panels. Gates will be of the type designated in the plans or as otherwise directed by the Engineer. Fence will be constructed conforming to the details on the standard plates and in the plans unless otherwise directed by the Engineer.

Right-of-Way fence on Interstate Projects will be constructed one foot within the Interstate Right-of-Way lines except at bridge openings, cattle passes, and as otherwise directed by the Engineer.

Right-of-Way fence other than on Interstate Projects will be constructed within one foot of the Right-of-Way on the Landowner's side except at bridge openings, cattle passes, and as otherwise directed by the Engineer.

Barbs will be fabricated from zinc coated 14 ga. wire. Two point barbs will be wrapped twice around one main strand at four-inch spacings and the four point barbs will be interlocked and wrapped around both main strands at five-inch spacings.

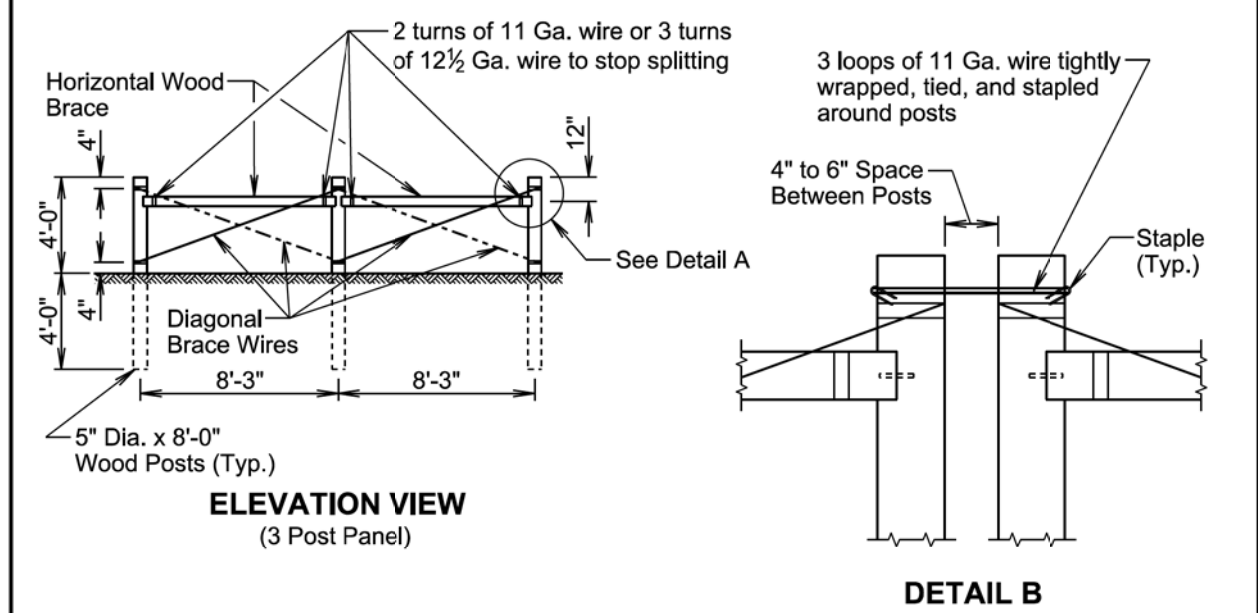
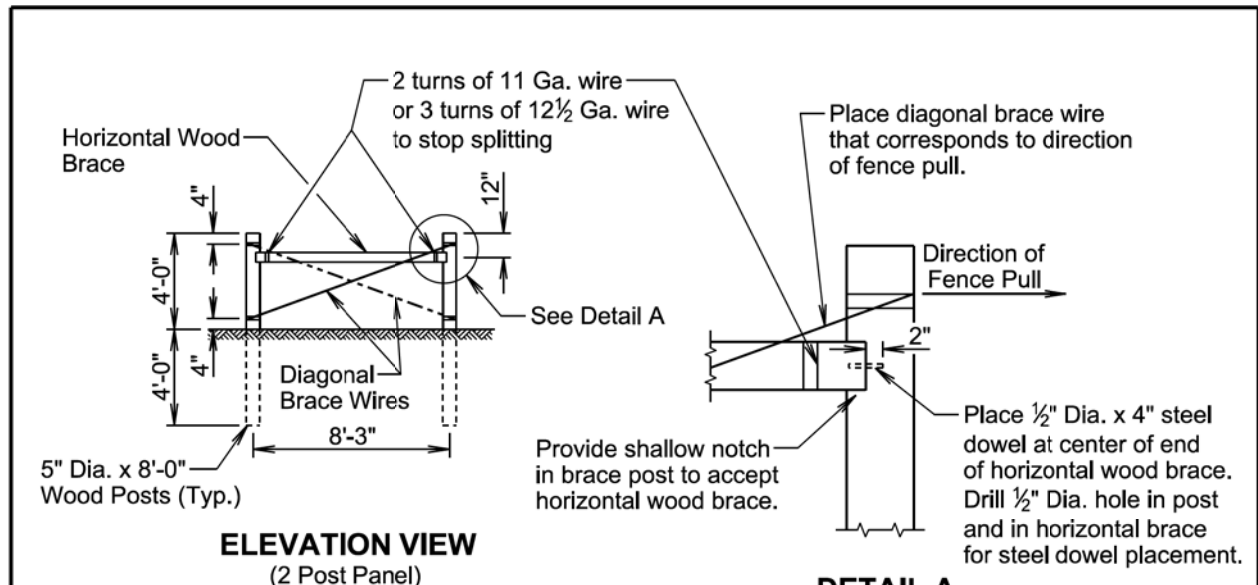
The gages of wire and wood post lengths and sizes are the minimum acceptable unless otherwise specified in the plans. The tolerances for steel posts will be as stated in AASHTO M281. Woven wire will conform to design and specifications of ASTM A116 and barbed wire will conform to ASTM A121.

June 26, 2019

S D D O T	STAPLE INSTALLATION AND GENERAL RIGHT-OF-WAY FENCE NOTES	PLATE NUMBER 620.02
	Published Date: 2025	Sheet 1 of 1

Plotted From: TRSF12139

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GENERAL NOTES:

Two Post Panels will be installed at least every 1320' between corners.

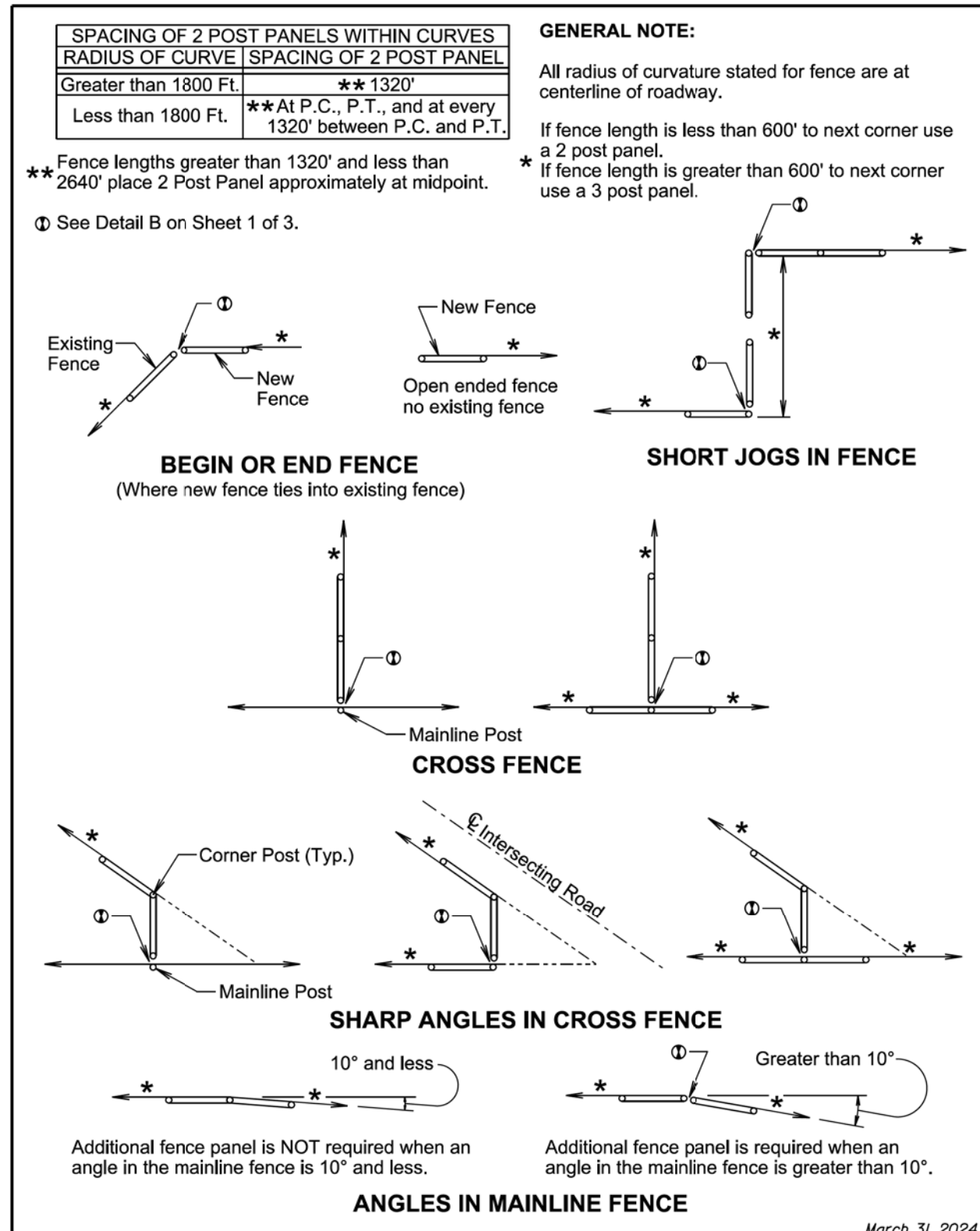
Two Post Panels will be installed at any sharp vertical angle crest points and as directed by the Engineer.

Horizontal wood braces will consist of 4" dia. x 8' wood posts or rough 4" x 4" x 8' timbers.

Diagonal brace wires will be fabricated with 4 strands of 9 Ga. galvanized wire twisted tight. The diagonal brace wires will be installed in accordance with the direction of the fence pull. Two diagonal brace wires are required if fence pull is in both directions.

March 31, 2024

S D D O T	BRACE PANELS AND APPLICATIONS OF BRACE PANELS	PLATE NUMBER 620.03
		Sheet 1 of 3



March 31, 2024

S D D O T	BRACE PANELS AND APPLICATIONS OF BRACE PANELS	PLATE NUMBER 620.03
		Sheet 2 of 3

Plot Scale - 1:200

Plotted From - TRSF12139

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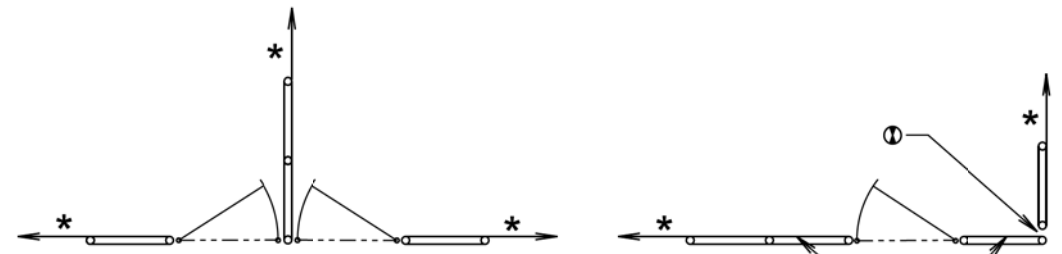
Plot Scale - 1:200

Plotted From - TRSF12139

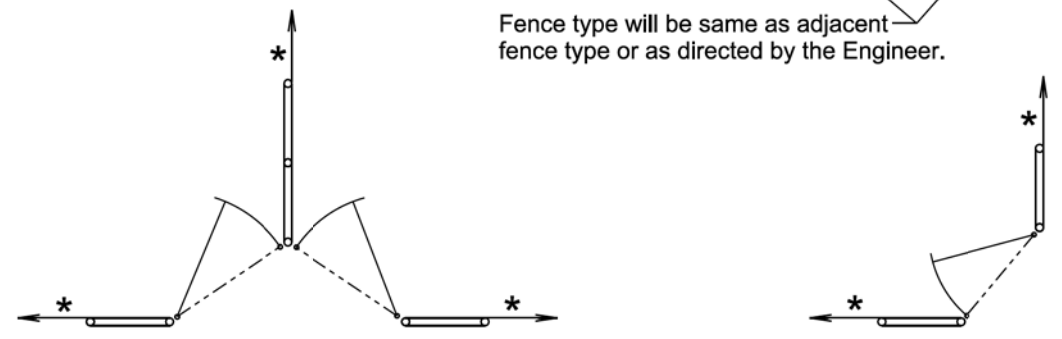
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ENTRANCE
(Not on corner)



Fence type will be same as adjacent fence type or as directed by the Engineer.



Fence type will be same as adjacent fence type or as directed by the Engineer.

DOUBLE ENTRANCES

ENTRANCES AT CORNERS

GATES

- * If fence length is less than 600' to next corner use a 2 post panel.
- * If fence length is greater than 600' to next corner use a 3 post panel.

① See Detail B on Sheet 1 of 3.

March 31, 2024

S D D O T	BRACE PANELS AND APPLICATIONS OF BRACE PANELS	PLATE NUMBER 620.03
		Sheet 3 of 3

Published Date: 2025

SECTION D ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	37.7	CuYd
110E1693	Remove Erosion Control Wattle	98	Ft
110E1695	Remove Sediment Filter Bag	5,516	Ft
110E1700	Remove Silt Fence	1,600	Ft
120E6300	Water for Vegetation	397.0	MGal
230E0010	Placing Topsoil	3,749	CuYd
730E0100	Cover Crop Seeding	2.4	Bu
730E0206	Type D Permanent Seed Mixture	1,390	Lb
730E0212	Type G Permanent Seed Mixture	63	Lb
731E0200	Fertilizing	3.60	Ton
732E0100	Mulching	4.8	Ton
732E0200	Fiber Mulching	8.3	Ton
734E0044	Soil Stabilizer	3.5	Acre
734E0103	Type 3 Erosion Control Blanket	2,052	SqYd
734E0154	12" Diameter Erosion Control Wattle	390	Ft
734E0165	Remove and Reset Erosion Control Wattle	98	Ft
734E0180	Sediment Filter Bag	5,516	Ft
734E0185	Remove and Reset Sediment Filter Bag	1,379	Ft
734E0510	Shaping for Erosion Control Blanket	812	Ft
734E0602	Low Flow Silt Fence	1,445	Ft
734E0604	High Flow Silt Fence	4,954	Ft
734E0610	Mucking Silt Fence	444	CuYd
734E0620	Repair Silt Fence	1,600	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	77	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	760	Ft
734E5005	Dewatering	Lump Sum	LS
734E5010	Sweeping	20	Hour
900E1320	Construction Entrance	2	Each

PLACING TOPSOIL

The thickness will be approximately 4 inches within the right-of-way on temporary easements.

The estimated amount of topsoil to be placed is as follows:

Station	to Station	Topsoil (CuYd)
9+55	14+00	101
14+00	20+00	199
20+00	26+00	797
26+00	32+00	567
32+00	38+00	473
38+00	44+00	387
44+00	50+00	133
50+00	56+00	141
56+00	62+00	33
62+00	68+00	22
68+00	74+00	11
74+00	80+00	20
80+00	86+00	52
86+00	92+00	53
92+00	98+00	52
98+00	104+00	72
104+00	110+00	71
110+00	116+00	255
116+00	122+00	223
122+00	125+07	87
Total:		3,749

COVER CROP SEEDING

Cover crop seeding may be used on this project as a temporary erosion control measure. The actual limits and use of cover crop seeding will be determined by the Engineer during construction.

PERMANENT SEEDING

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways and temporary easements under cultivation.

Lawn and turf seed, such as the Type D Permanent Seed Mixture, will be tested within 12 months prior to planting, exclusive of the calendar month in which the test was completed.

Type D Permanent Seed Mixture will consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/1000 SqFt)
Kentucky Bluegrass	Avalanche, Appalachian, Wildhorse, Blue Bonnet, Action	1.4
Perennial Ryegrass	Turf Type Varieties	1.4
Creeping Red Fescue	Epic, Boreal, Chantilly	1.4
Chewings Fescue	Ambrose, K2, Zodiac, Shadow III	1.4
Alkali Grass	Fults, Fults II, Quill, Salty	1.4
Total:		7

Type G Permanent Seed Mixture will consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	7
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
Indiangrass	Holt, Tomahawk, Chief, Nebraska 54	3
Big Bluestem	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	3
Oats or Spring Wheat: April through May; Winter Wheat: August through November		10
Total:		26

MYCORRHIZAL INOCULUM

Mycorrhizal inoculum will consist of mycorrhizal fungi spores and mycorrhizal fungi-infected root fragments in a solid carrier. The carrier may include organic materials, calcinated clay, or other materials consistent with application and good plant growth. The supplier will provide certification of the fungal species claimed and the live propagule count. The inoculum will include a minimum 25% the fungal species *Rhizophagus intraradices*. The remaining 75% may include other endomycorrhizal fungal species.

All Type G Permanent Seed will be inoculated by the seed supplier with a minimum of 100,000 live propagules of mycorrhizal fungi per acre. All costs of inoculating the seed will be incidental to the contract unit price per pound for the corresponding permanent seed mixture.

All Type D Permanent Seed will be inoculated by the seed supplier with a minimum of 20,000 live propagules of mycorrhizal fungi per 1,000 square feet. All costs of inoculating the seed will be incidental to the contract unit price per pound for the corresponding permanent seed mixture.

The Mycorrhizal Inoculum provided will be from the approved product list. The approved product list may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

FIBER MULCHING

Fiber mulch will be applied in a separate operation following permanent seeding.

Fiber mulch will be applied at the rate of 3,000 pounds per acre.

The Contractor will allow the fiber mulch to cure a minimum of 18 hours prior to watering or any storm event to ensure proper cohesion between the soil and fiber particles.

All costs for the additional tackifier added to the fiber mulch including labor, equipment, and materials will be incidental to the contract unit price per ton for "Fiber Mulching".

The fiber mulch provided will be from the approved product list. The approved product list for fiber mulch may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

TABLE OF FIBER MULCHING

Location	Quantity (Ton)
Area to be seeded with Type D Permanent Seed Mixture	6.8
Additional Quantity:	1.5
Total:	8.3

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET D2	TOTAL SHEETS D38
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Plotting Date: 01/27/2025 Rev. 1/27/25 EF

Plot Scale - 1:200

Plotted From - Inpr17200

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FERTILIZING

The Contractor will apply an all-natural slow-release fertilizer prior to seeding or placing sod. The all-natural fertilizer will have a minimum guaranteed analysis of 4-4-4 and be USDA Certified BioBased. It should provide a minimum of 4% (N) nitrogen with a minimum water insoluble nitrogen (WIN) fraction of 2.07%, a minimum of 4% (P2O5) available phosphate, a minimum of 4% (K2O) soluble potash, and a maximum carbon to nitrogen ratio (C:N ratio) of 5:1. The all-natural fertilizer will be free of weed-seed and pathogens accomplished through thermophilic composting, and not mechanical or chemical sterilization, to assure presence of beneficial soil microbiology. The fertilizer will have a near neutral pH, a low salt index, a low biological oxygen demand, contain organic humic and fulvic acids, and have high aerobic organism counts. The fertilizer will also be stable, free of bad odors, and be unattractive as a food source for animals. It should also be in a granular form that is easily spread.

For Type G Permanent Seed Mixture the fertilizer will be applied at a rate of 1,000 pounds per acre in accordance with the manufacturer's recommended method of application.

For Type D Permanent Seed Mixture the application rate is 34 pounds per 1,000 square feet.

The Fertilizer provided will be from the approved product list. The approved product list may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

STREET SWEEPING

Vehicle tracking of sediment from the construction site will be minimized. Street sweeping will be used if erosion and sediment control best management practices are not adequate to prevent sediment from being tracked onto the street.

The Contractor will use a pickup broom having integral self-contained storage to clean the roadway. The pickup broom used will be a minimum of 6 feet wide and have working gutter brooms.

At a minimum, sweeping will be required:

1. Prior to opening any segment or roadway to traffic.
2. Following pavement grooving operations and prior to the application of the pavement marking tape.
3. When sawing operations are underway in the inside driving lanes, the outside driving lanes and gutter may need to be swept to control dust.
4. When directed by the Engineer.

All costs for cleaning the roadway with a pickup broom will be incidental to the contract unit price per hour for "Sweeping".

SOIL STABILIZER

An estimated quantity of 3.5 acres of soil stabilizer has been included in the Estimate of Quantities. The soil stabilizer will be applied on permanently seeded areas and areas deemed necessary by the Engineer.

The Contractor will apply soil stabilizer in accordance with the manufacturer's application instructions and at the rate specified in the list of approved soil stabilizers.

Wood fiber mulch that contains a green dye will be mixed with the soil stabilizer to be used as a tracer when the soil stabilizer is applied

hydraulically. Wood fiber mulch will be added at a rate of 300 pounds per acre to all of the approved soil stabilizers listed in the table except for the Pam-12 Plus product. The wood fiber mulch will be a 100% wood fiber product and does not need to contain a tackifier.

All costs for furnishing and applying the soil stabilizer including wood fiber mulch, hauling, materials, equipment, labor, and incidentals necessary will be paid for at the contract unit price per Acre for "Soil Stabilizer".

The Soil Stabilizer provided will be from the approved product list. The approved product list may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

LOW FLOW SILT FENCE

The low flow silt fence fabric provided will be from the approved product list. The approved product list for low flow silt fence may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

Low flow silt fence will be placed at the locations noted in the table and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.04 for details.

An additional quantity of Low Flow Silt Fence has been added to the Estimate of Quantities for temporary sediment control.

TABLE OF LOW FLOW SILT FENCE

Station	Location	Quantity (Ft)
10+90 to 12+20	L Perimeter control	145
14+00 to 16+00	L Perimeter control	200
14+75 to 16+00	R Perimeter control	125
114+85 to 115+65	L Perimeter control	100
116+50 to 117+50	L Perimeter control	100
119+00 to 120+00	L Perimeter control	100
120+75 to 121+50	L Perimeter control	75
123+00 to 124+00	L Perimeter control	100
		Additional Quantity: 500
Total:		1,445

HIGH FLOW SILT FENCE

The high flow silt fence fabric provided will be from the approved product list. The approved product list for high flow silt fence may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

High flow silt fence will be placed at the locations noted in the table and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.05 for details.

An additional quantity of high flow silt fence has been added to the Estimate of Quantities for temporary sediment control.

TABLE OF HIGH FLOW SILT FENCE

Station	Location	Quantity (Ft)
15+08	R Inlet end of pipe	18
21+32	R Inlet end of pipe	18
21+32	L Inlet end of pipe	18
21+84	R Inlet end of pipe	18
23+90	R Inlet end of pipe	18
25+52	L Inlet end of pipe	18
27+04	R Across ditch at inlet end of pipe	30
29+20	L Inlet end of pipe	18
29+20	R Inlet end of pipe	18
30+78	L Inlet end of pipe	18
30+78	R Inlet end of pipe	18
32+77	L Inlet end of pipe	18
35+54	R Inlet end of pipe	18
37+86	L Inlet end of pipe	18
40+29	L Inlet end of pipe	18
41+34	R Inlet end of pipe	18
41+57	R Inlet end of pipe	18
42+79	L Inlet end of pipe	18
111+09	L Inlet end of pipe	18
113+00	L Inlet end of pipe	18
118+02	R Inlet end of pipe	18
Quantity from Interim Sediment Control at Inlets:		4,264
Additional Quantity:		300
Total:		4,954

EROSION CONTROL WATTLE

Erosion control wattles for restraining the flow of runoff and sediment will be installed at locations noted in the table and at locations determined by the Engineer during construction. Refer to Standard Plate 734.06 for details.

The Contractor will provide certification that the erosion control wattles do not contain noxious weed seeds.

Erosion control wattles will remain on the project until vegetation has been established and then they will be removed in accordance with the Engineer.

An additional quantity of 12" Diameter Erosion Control Wattles has been added to the Estimate of Quantities for temporary erosion and sediment control in highway ditch channels and as an alternative to low flow or high flow silt fence at wetland areas adjacent to the highway.

The erosion control wattle provided will be from the approved product list. The approved product list for erosion control wattle may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

Plot Scale - 1:200

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TABLE OF EROSION CONTROL WATTLE

Station	Location	Quantity (Ft)
20+92 – 120' L	Inlet and outlet ends of pipe	40
	Additional Quantity:	350
Total:		390

42+02 L	Outlet end of pipe	27
111+92 L	Outlet end of pipe	27
113+70 to 114+90 R	Ditch channel	270
113+91 L	Outlet end of pipe	27
119+03 R	Outlet end of pipe	27
119+25 L	Outlet end of pipe	27
	Additional Quantity:	500

Total Type 3 Erosion Control Blanket: 2,052

SHAPING FOR EROSION CONTROL BLANKET

The ditches will be shaped for the erosion control blanket as specified on Standard Plate 734.01.

EROSION CONTROL BLANKET

Erosion control blanket will be installed 16 feet wide at the locations noted in the table and at locations determined by the Engineer during construction.

The erosion control blanket provided will be from the approved product list. The approved product list for erosion control blanket may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

An additional quantity of Type 3 Erosion Control Blanket has been added to the Estimate of Quantities for temporary erosion control.

TABLE OF EROSION CONTROL BLANKET

Station	Location	Quantity (SqYd)
11+09 L	Outlet end of pipe	27
15+08 L	Outlet end of pipe	27
18+53 L	Outlet end of pipe	27
21+32 L	Outlet end of pipe	27
21+32 R	Outlet end of pipe	27
21+84 L	Outlet end of pipe	27
23+90 R	Outlet end of pipe	27
25+52 L	Outlet end of pipe	27
0+00 to 1+59 L/R (ch022)	Disturbed area	465
27+04 R	Outlet end of pipe	27
27+63 L	Outlet end of pipe	27
28+33 R	Outlet end of pipe	27
28+38 L	Outlet end of pipe	27
29+20 R	Outlet end of pipe	27
30+78 L	Outlet end of pipe	27
30+78 R	Outlet end of pipe	27
32+77 L	Outlet end of pipe	27
33+18 to 33+57 R	Ditch bottom	34
35+37 R	Outlet end of pipe	27
36+20 R	Outlet end of pipe	27
37+86 L	Outlet end of pipe	27
38+53 R	Outlet end of pipe	27
40+29 L	Outlet end of pipe	27
41+34 L	Outlet end of pipe	27
41+57 L	Outlet end of pipe	27
41+96 R	Outlet end of pipe	27

INTERIM SEDIMENT CONTROL AT INLETS, MANHOLES, AND JUNCTION BOXES AFTER SURFACING REMOVAL AND BEFORE PLACEMENT OF SURFACING

Refer to Standard Plate 734.05 for details of installation of high flow silt fence at drop inlets, manholes, and junction boxes.

The high flow silt fence fabric provided will be from the approved product list. The approved product list for high flow silt fence may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

In addition, the Contractor will do the following for this installation:

- A space of at least 1' will be provided between the silt fence installation and the inlet. This space will be filled completely with a 2" depth of aggregate, 2" minus or smaller.
- The top elevation of the silt fence will be such that a 12" horizontal flap of silt fence will remain at the bottom.
- The base of the silt fence will conform to the natural ground profile but does not need to be trenched in at the bottom.
- The extra 12" of the silt fence material may be cut so that the material will lay flat upon the subgrade.
- Sediment filter bags will be placed on the 12" flap around the perimeter of the silt fence installation. The sediment filter bags will overlap 6" at the ends and be placed tightly together.
- The sediment filter bags will be filled with clean aggregate 2" minus or smaller.

The Sediment Filter Bag provided will be from the approved product list. The approved product list may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

All costs for furnishing and installing the sediment filter bags will be incidental to the contract unit price per foot for "Sediment Filter Bag."

All costs for removing the sediment filter bags will be incidental to the contract unit price per foot for "Remove Sediment Filter Bag".

Payment for high flow silt fence will be as stated in Section 734.5 of the Specifications.

All costs for furnishing, installing, and removing the 2" depth of aggregate will be incidental to other erosion and sediment control contract items.

All costs for removing and disposing of sediment collected by the sediment control device will be incidental to the contract unit price per cubic yard for "Remove Sediment".

The removed sediment will be placed at a location away from the drop inlet where the sediment will not be washed back into the drop inlet or other storm sewer system.

The Contractor and Engineer will inspect and maintain the sediment control device once every week and within 24 hours after every rainfall event greater than 1/2".

TABLE OF INTERIM SEDIMENT CONTROL AT INLETS, MANHOLES, AND JUNCTION BOXES AFTER SURFACING REMOVAL AND BEFORE PLACEMENT OF SURFACING

Station	High Flow Silt Fence Quantity (Ft)	Sediment Filter Bag Quantity (Ft)	Remove Sediment Quantity (CuYd)
11+09 – 26' L	18	24	0.25
11+09 – 23' R	18	24	0.25
15+08 – 30' L	18	24	0.25
15+08 – 30' R	18	24	0.25
18+53 – 35' L	42	52	0.25
18+53 – 35' R	42	52	0.25
21+84 – 35' L	32	44	0.25
21+84 – 35' R	32	44	0.25
27+63 – 35' L	42	52	0.25
27+63 – 35' R	42	52	0.25
28+59 – 73' L	18	24	0.25
28+61 – 73' R	18	24	0.25
28+93 – 72' R	18	24	0.25
28+98 – 73' L	18	24	0.25
29+34 – 35' L	32	44	0.25
29+34 – 35' R	32	44	0.25
35+37 – 35' L	32	44	0.25
35+37 – 35' R	32	44	0.25
35+76 – 70' R	18	24	0.25
35+99 – 70' R	18	24	0.25
38+53 – 35' L	32	44	0.25
38+53 – 35' R	32	44	0.25
41+57 – 35' L	42	52	0.25
41+57 – 35' R	42	52	0.25
42+18 – 80' R	42	52	0.25
42+19 – 90' L	18	24	0.25
42+62 – 90' L	18	24	0.25
42+90 – 32' R	18	24	0.25
43+62 – 64' R	42	52	0.25
44+67 – 35' L	32	44	0.25
44+95 – 35' R	42	52	0.25
46+33 – 35' R	32	44	0.25
47+65 – 35' R	42	52	0.25
47+93 – 62' R	42	52	0.25
48+33 – 58' R	18	24	0.25
50+02 – 52' R	22	28	0.25

Plot Scale - 1:200

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(Continued)				79+65 - 24' R	25	32	0.25
50+12 - 35' L	42	52	0.25	80+24 - 24' L	18	24	0.25
50+12 - 35' R	42	52	0.25	80+24 - 24' R	25	32	0.25
52+44 - 47' R	22	28	0.25	80+43 - 24' R	25	32	0.25
52+54 - 35' L	32	44	0.25	80+50 - 26' L	42	52	0.25
52+54 - 35' R	32	44	0.25	80+50 - 24' R	25	32	0.25
53+34 - 47' R	22	28	0.25	80+57 - 24' R	25	32	0.25
53+79 - 35' R	42	52	0.25	80+73 - 24' L	18	24	0.25
54+35 - 35' R	32	44	0.25	80+73 - 24' R	25	32	0.25
54+35 - 47' R	22	28	0.25	81+61 - 78' R	18	24	0.25
55+09 - 47' R	22	28	0.25	82+08 - 76' R	18	24	0.25
55+75 - 35' L	32	44	0.25	82+80 - 26' L	32	44	0.25
55+81 - 35' R	32	44	0.25	83+00 - 28' R	50	60	0.25
57+94 - 31' R	32	44	0.25	83+00 - 40' R	22	28	0.25
57+95 - 26' L	32	44	0.25	85+00 - 24' L	18	24	0.25
58+96 - 24' L	18	24	0.25	85+00 - 24' R	25	32	0.25
59+23 - 26' L	42	52	0.25	87+75 - 24' R	25	32	0.25
59+23 - 26' R	42	52	0.25	90+36 - 51' R	22	28	0.25
59+50 - 31' R	30	40	0.25	90+58 - 24' L	18	24	0.25
59+50 - 24' L	18	24	0.25	90+58 - 24' R	25	32	0.25
59+73 - 73' R	32	44	0.25	91+52 - 24' L	18	24	0.25
59+77 - 93' R	42	52	0.25	91+64 - 24' R	24	32	0.25
59+81 - 51' L	18	24	0.25	92+04 - 26' L	42	52	0.25
59+96 - 24' R	24	32	0.25	92+04 - 28' R	50	60	0.25
60+19 - 51' L	18	24	0.25	92+04 - 41' R	22	28	0.25
60+22 - 78' R	32	44	0.25	92+36 - 24' L	18	24	0.25
61+62 - 23' R	24	32	0.25	92+36 - 24' R	25	32	0.25
63+13 - 26' L	32	44	0.25	93+63 - 24' L	18	24	0.25
63+16 - 26' R	32	44	0.25	93+63 - 24' R	25	32	0.25
63+45 - 55' R	42	52	0.25	96+38 - 24' R	18	24	0.25
63+84 - 51' R	18	24	0.25	98+76 - 26' L	32	44	0.25
64+22 - 26' R	32	44	0.25	99+09 - 85' R	22	28	0.25
66+90 - 26' L	42	52	0.25	99+50 - 50' L	22	28	0.25
66+90 - 26' R	42	52	0.25	99+52 - 27' R	48	60	0.25
67+10 - 67' R	42	52	0.25	99+53 - 66' R	22	28	0.25
67+85 - 63' R	18	24	0.25	101+00 - 24' R	25	32	0.25
68+15 - 26' R	42	52	0.25	103+27 - 26' L	42	52	0.25
69+05 - 26' R	42	52	0.25	103+27 - 26' R	42	52	0.25
70+47 - 26' L	42	52	0.25	103+27 - 51' R	22	28	0.25
70+78 - 26' R	42	52	0.25	105+50 - 24' R	25	32	0.25
71+10 - 56' R	42	52	0.25	107+77 - 26' L	32	44	0.25
71+52 - 41' R	22	28	0.25	107+77 - 27' R	42	52	0.25
72+77 - 24' R	24	32	0.25	107+77 - 47' R	22	28	0.25
74+44 - 26' R	32	44	0.25	110+75 - 24' R	25	32	0.25
74+79 - 26' L	42	52	0.25	110+85 - 26' L	42	52	0.25
75+17 - 51' R	18	24	0.25	111+27 - 59' L	18	24	0.25
75+60 - 26' R	32	44	0.25	111+71 - 59' L	18	24	0.25
76+36 - 24' R	25	32	0.25	112+80 - 24' R	25	32	0.25
77+59 - 26' L	42	52	0.25	112+80 - 67' L	18	24	0.25
78+09 - 26' R	32	44	0.25	113+24 - 59' L	18	24	0.25
78+42 - 55' R	42	52	0.25	113+68 - 59' L	18	24	0.25
78+90 - 51' R	18	24	0.25	114+48 - 65' R	22	28	0.25
79+65 - 26' L	42	52	0.25	114+68 - 28' R	50	60	0.25

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117+94 - 24' L	18	24	0.25
117+94 - 24' R	18	24	0.25
118+31 - 60' R	18	24	0.25
118+75 - 60' R	18	24	0.25
119+25 - 26' L	32	44	0.25
119+25 - 26' R	32	44	0.25
Totals:	4,264	5,516	36.75

SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

This type of sediment control device should be used where there is pavement in the vicinity of the drop inlets and storm water or sediment could possibly enter the frame and grate. Sediment Control at Inlet with Frame and Grate will be installed prior to working in the vicinity of the drop inlets.

The Contractor will be responsible for maintaining and repairing the sediment control devices for the duration of the project for which sediment control measures are required. Maintenance will be scheduled to prevent storm water from backing up into the driving lane.

"Sediment Control at Inlet with Frame and Grate" will be paid for one time at each location, regardless of the number of times the sediment control devices are installed, inspected, cleaned, removed, repaired, or replaced. All costs associated with furnishing, installing, inspecting, maintaining, cleaning, sediment removal, and repairing Sediment Control at Inlet with Frame and Grate will be incidental to the contract unit price per each for "Sediment Control at Inlet with Frame and Grate".

Sediment collection devices will be:

A commercial made sediment collection device from the "Sediment Control at Inlet with Frame and Grate" list or an approved equal. The device will be installed in reinforced concrete drop inlets in accordance with the manufacturer's recommendations.

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

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TABLE OF SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

Station	Quantity (each)
11+09 - 26' L	1
11+09 - 23' R	1
15+08 - 30' L	1
15+08 - 30' R	1
28+59 - 73' L	1
28+61 - 73' R	1
28+93 - 72' R	1
28+98 - 73' L	1
35+76 - 70' R	1
35+99 - 70' R	1
42+19 - 90' L	1
42+62 - 90' L	1
42+90 - 32' R	1
48+33 - 58' R	1
50+02 - 52' R	1
52+44 - 47' R	1
53+34 - 47' R	1
54+35 - 47' R	1
55+09 - 47' R	1
58+96 - 24' L	1
59+50 - 31' R	1
59+50 - 24' L	1
59+81 - 51' L	1
59+96 - 24' R	1
60+19 - 51' L	1
61+62 - 23' R	1
63+84 - 51' R	1
67+85 - 63' R	1
71+52 - 41' R	1
72+77 - 24' R	1
75+17 - 51' R	1
76+36 - 24' R	1
78+90 - 51' R	1
79+65 - 24' R	1
80+24 - 24' L	1
80+24 - 24' R	1
80+43 - 24' R	1
80+50 - 24' R	1
80+57 - 24' R	1
80+73 - 24' L	1
80+73 - 24' R	1
81+61 - 78' R	1
82+08 - 76' R	1
83+00 - 40' R	1
85+00 - 24' L	1
85+00 - 24' R	1
87+75 - 24' R	1
90+36 - 51' R	1
90+58 - 24' L	1

90+58 - 24' R	1
91+52 - 24' L	1
91+64 - 24' R	1
92+04 - 41' R	1
92+36 - 24' L	1
92+36 - 24' R	1
93+63 - 24' L	1
93+63 - 24' R	1
96+38 - 24' R	1
99+09 - 85' R	1
99+50 - 50' L	1
99+53 - 66' R	1
101+00 - 24' R	1
103+27 - 51' R	1
105+50 - 24' R	1
107+77 - 47' R	1
110+75 - 24' R	1
111+27 - 59' L	1
111+71 - 59' L	1
112+80 - 24' R	1
112+80 - 67' L	1
113+24 - 59' L	1
113+68 - 59' L	1
114+48 - 65' R	1
117+94 - 24' L	1
117+94 - 24' R	1
118+31 - 60' R	1
118+75 - 60' R	1
Totals:	77

SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

The Sediment Control Device at Type S Inlets provided will be from the approved product list. The approved product list may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

TABLE OF SEDIMENT CONTROL AT TYPE S REINFORCED CONCRETE DROP INLETS

Station	Clear Opening Width (Ft)	Quantity*
18+53 - 35' L	11	13
18+53 - 35' R	11	13
21+84 - 35' L	6	8
21+84 - 35' R	6	8
27+63 - 35' L	11	13
27+63 - 35' R	11	13
29+34 - 35' L	6	8
29+34 - 35' R	6	8
35+37 - 35' L	6	8
35+37 - 35' R	6	8

38+53 - 35' L	6	8
38+53 - 35' R	6	8
41+57 - 35' L	11	13
41+57 - 35' R	11	13
42+18 - 80' R	11	13
43+62 - 64' R	11	13
44+67 - 35' L	6	8
44+95 - 35' R	11	13
46+33 - 35' R	6	8
47+65 - 35' R	11	13
47+93 - 62' R	11	13
50+12 - 35' L	11	13
50+12 - 35' R	11	13
52+54 - 35' L	6	8
52+54 - 35' R	6	8
53+79 - 35' R	11	13
54+35 - 35' R	6	8
55+75 - 35' L	6	8
55+81 - 35' R	6	8
57+94 - 31' R	6	8
57+95 - 26' L	6	8
59+23 - 26' L	11	13
59+23 - 26' R	11	13
59+73 - 73' R	6	8
59+77 - 93' R	11	13
60+22 - 78' R	6	8
63+13 - 26' L	6	8
63+16 - 26' R	6	8
63+45 - 55' R	11	13
64+22 - 26' R	6	8
66+90 - 26' L	11	13
66+90 - 26' R	11	13
67+10 - 67' R	11	13
68+15 - 26' R	11	13
69+05 - 26' R	11	13
70+47 - 26' L	11	13
70+78 - 26' R	11	13
71+10 - 56' R	11	13
74+44 - 26' R	6	8
74+79 - 26' L	11	13
75+60 - 26' R	6	8
77+59 - 26' L	11	13
78+09 - 26' R	6	8
78+42 - 55' R	11	13
79+65 - 26' L	11	13
80+50 - 26' L	11	13
82+80 - 26' L	6	8
83+00 - 28' R	11	13
92+04 - 26' L	11	13
92+04 - 28' R	11	13

Plot Scale - 1:200

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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(Continued)

98+76 – 26' L	6	8
99+52 – 27' R	11	13
103+27 – 26' L	11	13
103+27 – 26' R	11	13
107+77 – 26' L	6	8
107+77 – 27' R	11	13
110+85 – 26' L	11	13
114+68 – 28' R	11	13
119+25 – 26' L	6	8
119+25 – 26' R	1	8

Totals: 615 760

* Quantity shown is the minimum length required and will be the basis of payment.

WATER FOR VEGETATION

Water for vegetation is calculated only for areas that are to be seeded with Type D Permanent Seed Mixture.

Water for vegetation consists of applying water to seeded areas to enhance germination and/or root growth. When watering, use the following guidelines:

Immediately after seeding:

- Keep the topsoil moist but not excessively wet until the seed has germinated.
- Water a minimum of 3 days a week for 2 weeks preferably watering 2 or 3 times a day in small quantities.
- Use fine spray and low pressure to avoid topsoil wash and to prevent uncovering buried seeds.

After emergence:

- Topsoil will be kept thoroughly moistened by sprinkling, as necessary, for 6 weeks. After the 6-week period, an inspection will be made to determine if grass is established enough to suspend watering. Continue watering until grass has been thoroughly established.
- Never apply water at a rate faster than the topsoil can absorb.
- Water during early morning hours or early evening hours.
- Do not water when rain is forecasted for the area.
- If rainfall occurs, suspend watering according to rainfall amount.

An estimated 18 Gallons of water per square yard of seeding area was used to compute the quantity for the bid item "Water for Vegetation".

All costs for furnishing and applying the water including hauling, materials, equipment, labor, and incidentals necessary will be paid for at the contract unit price per MGal for "Water for Vegetation".

CONSTRUCTION ENTRANCE

The Contractor will install a Construction Entrance at locations where there is a potential for mud tracking and sediment flow from the construction site and work area onto a paved public roadway.

It is the Contractor's option to use the SDDOT Construction Entrance (See SDDOT Construction Entrance notes and details), a product from the list provided in these notes, or other products or processes as approved by the Engineer during construction.

If the Contractor elects to use one of the products listed in the table, then the Contractor will install the construction entrance product in accordance with the manufacturer's installation instructions or as directed by the Engineer.

The Contractor will maintain the construction entrance such that mud tracking and sediment flow will not enter the roadway or adjacent drainage areas. The construction entrance will be routinely inspected, and the Contractor will repair or replace material as deemed necessary by the Engineer.

All costs for furnishing, installing, maintaining, and removal of the construction entrance including equipment, labor, materials, and incidentals will be included in the contract unit price per each for "Construction Entrance".

The Construction Entrance provided will be from the approved product list. The approved product list may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

SDDOT CONSTRUCTION ENTRANCE

If the SDDOT Construction Entrance is utilized, then the Contractor will install the SDDOT Construction Entrance in accordance with these notes and the detail drawings.

Pit run material will be obtained from a granular source and will conform to the following gradation:

<u>Sieve Size</u>	<u>Percent Passing</u>
6"	100%
#4	0-60%
#200	0-20%

The pit run material will be compacted to the satisfaction of the Engineer.

The aggregate for the granular material will conform to the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
3"	100%
2 1/2"	90-100%
1 1/2"	25-60%
3/4"	0-10%
1/2"	0-5%

The granular material will be placed in 6" maximum lifts.

It is anticipated that the granular material will need to be periodically removed and replaced as it becomes inundated with mud and sediment.

The Reinforcement Fabric (MSE) will be in conformance with Section 831 of the Specifications. The Reinforcement Fabric (MSE) will be on the Approved Products List for this material or will be certified by the supplier to meet this specification prior to installation.

The Reinforcement Fabric (MSE) should be kept as taut as possible prior to placing.

Equipment will not be allowed on the Reinforcement Fabric (MSE) until the first lift of granular material is in place.

All seams in the Reinforcement Fabric (MSE) will be overlapped at least 2' and shingled.

DEWATERING AND SEDIMENT COLLECTING

Dewatering and Sediment Collection is expected to be necessary on this project due to underground construction of storm sewers and other underground utilities.

The Contractor has the option to treat sediment laden water trapped within the project limits or the Contractor may elect to transport sediment laden water off the project. Refer to the OPTIONS FOR DEWATERING AND SEDIMENT COLLECTING detail sheet for more information.

Water transported off the project limits will not be disposed of in an area where it can enter a waterway. The disposal site must be approved by the Engineer.

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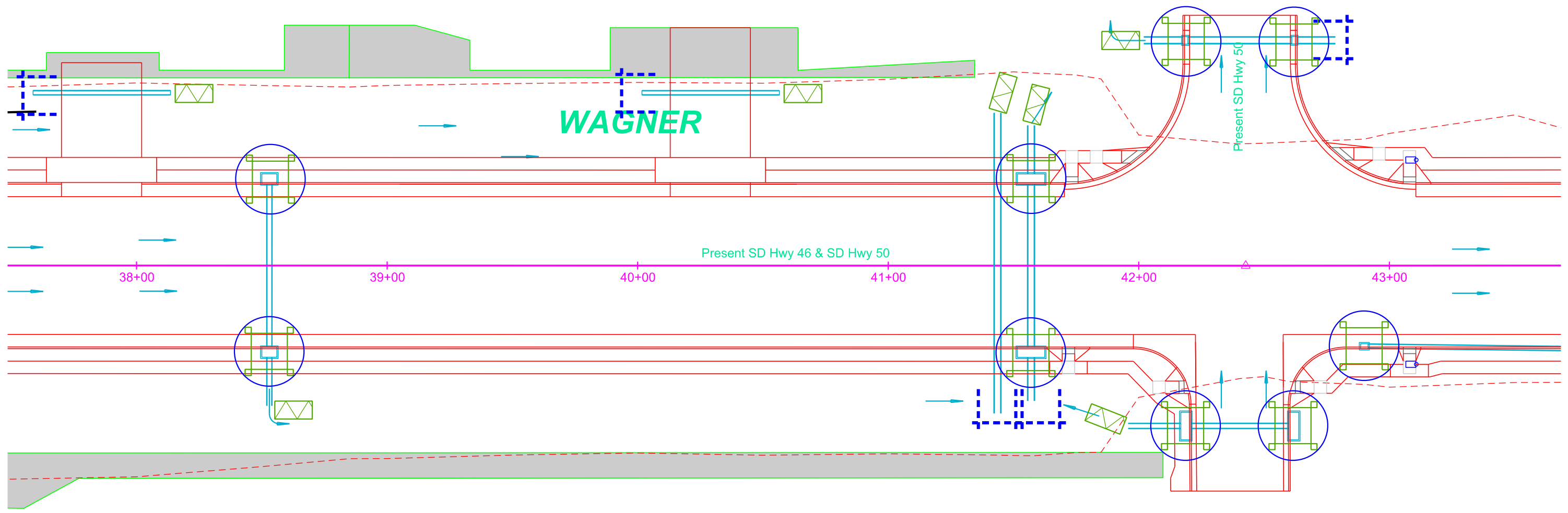


Install Interim Sediment Control at Inlets, Manholes, and Junction Boxes before the placement of surfacing at the following locations:

38+53 - 35' L	32 Ft High Flow Silt Fence	44 Ft Sediment Filter Bags
38+53 - 35' R	32 Ft High Flow Silt Fence	44 Ft Sediment Filter Bags
41+57 - 35' L	42 Ft High Flow Silt Fence	52 Ft Sediment Filter Bags
41+57 - 35' R	42 Ft High Flow Silt Fence	52 Ft Sediment Filter Bags
42+18 - 80' R	42 Ft High Flow Silt Fence	52 Ft Sediment Filter Bags
42+19 - 90' L	18 Ft High Flow Silt Fence	24 Ft Sediment Filter Bags
42+62 - 90' L	18 Ft High Flow Silt Fence	24 Ft Sediment Filter Bags
42+90 - 32' R	18 Ft High Flow Silt Fence	24 Ft Sediment Filter Bags
43+62 - 64' R	42 Ft High Flow Silt Fence	52 Ft Sediment Filter Bags

Install High Flow Silt Fence at the following locations:

37+86 L	Inlet end of pipe	18 Ft
40+29 L	Inlet end of pipe	18 Ft
41+34 R	Inlet end of pipe	18 Ft
41+57 R	Inlet end of pipe	18 Ft
42+79 L	Inlet end of pipe	18 Ft



Install Sediment Control at Type S Drop Inlets after the placement of surfacing at the following locations:

38+53 - 35' L	8 Ft
38+53 - 35' R	8 Ft
41+57 - 35' L	13 Ft
41+57 - 35' R	13 Ft
42+18 - 80' R	13 Ft
43+62 - 64' R	13 Ft

Install Sediment Control at Inlets with Frames and Grates after the placement of surfacing at the following locations:

42+19 - 90' L	1 Each
42+62 - 90' L	1 Each
42+90 - 32' R	1 Each

Install Type 3 Erosion Control Blanket at the following locations:

37+86 L	Outlet end of pipe	27 SqYd
38+53 R	Outlet end of pipe	27 SqYd
40+29 L	Outlet end of pipe	27 SqYd
41+34 L	Outlet end of pipe	27 SqYd
41+57 L	Outlet end of pipe	27 SqYd
41+96 R	Outlet end of pipe	27 SqYd
42+02 L	Outlet end of pipe	27 SqYd

Plot Scale - 1"=40'

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Plot Scale - 1:200

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SECTION F ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
120E6200	Water for Granular Material	363.9	MGal
260E1010	Base Course	2,814.1	Ton
260E1030	Base Course, Salvaged	2,285.0	Ton
260E2010	Gravel Cushion	2,114.8	Ton
260E2030	Gravel Cushion, Salvaged	21,803.0	Ton
260E3500	Temporary Gravel Surfacing	1,371.0	Ton
320E1200	Asphalt Concrete Composite	3,801.4	Ton
380E0050	8" Nonreinforced PCC Pavement	60,488.6	SqYd
380E0800	PCC Shoulder Pavement	751.8	SqYd
380E3020	6" PCC Driveway Pavement	292.8	SqYd
380E3040	8" PCC Driveway Pavement	4,137.5	SqYd
380E6000	Dowel Bar	41,521	Each
380E6110	Insert Steel Bar in PCC Pavement	260	Each
831E0300	Reinforcement Fabric (MSE)	6,390	SqYd

SURFACING THICKNESS DIMENSIONS

Plans tonnage will be applied even though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans tonnage may be varied to achieve the required elevation.

SAWING IN EXISTING SURFACING

Where new Portland Cement Concrete Pavement (PCCP) or new asphalt concrete is placed adjacent to existing asphalt concrete or PCCP, the existing pavement shall be sawed full depth to a true line with a vertical face. No separate payment shall be made for sawing.

CHECKING SPREAD RATES

The Contractor will be responsible for checking the Base Course, Gravel Cushion, Salvaged, Gravel Cushion and Asphalt Concrete Composite spread rates and taking the weigh delivery tickets as the surfacing material arrives on the project and is placed onto the roadway.

The Contractor will compute the required spread rates for each typical surfacing section and create a spread chart prior to the start of material delivery and placement. The Engineer will review and check the Contractor's calculations and spread charts. The station to station spread will be written on each ticket as the surfacing material is delivered to the roadway.

At the end of each day's shift, the Contractor will verify the following:

- All tickets are present and accounted for,
- The quantity summary for each item is calculated,
- The amount of material wasted if any,
- Each day's ticket summary is marked with the corresponding 'computed by',
- The ticket summary is initialed and certified that the delivered and placed quantity is correct.

All daily tickets and the summary by item will be given to the Engineer no later than the following morning.

If the checker is not properly and accurately performing the required duties, the Contractor will correct the problem or replace the checker with an individual capable of performing the duties to the satisfaction of the Engineer. Failure to do so will result in suspension of the work.

The Department will perform depth checks. The Contractor will be responsible for placement of material to the correct depth unless otherwise directed by the Engineer. If the placed material is not within a tolerance of $\pm 1/2$ inch of the plan shown depth, the Contractor will correct the problem at no additional cost to the Department. Excess material above the tolerance will not be paid for. Achieving the correct depth may require picking up and moving material or other action as required by the Engineer. All costs for providing the Contractor furnished checker and performing all related duties will be incidental to the contract lump sum price for the "Checker". No allowances will be made to the contract lump sum price for "Checker" due to authorized quantity variations unless the quantities for the material being checked vary above or below the estimated quantities by more than 25 percent. Payment for the Checker will then be increased or decreased by the same proportion as the placed material quantity bears to the estimated material quantity.

BASE COURSE, SALVAGED

Base Course, Salvaged will be obtained from the stockpile site(s) provided by the Contractor from the salvaged granular material produced on this project and may be used without further gradation testing.

The Contractor will ensure the Base Course, Salvaged material contains no more than 50% salvaged asphalt mix material and at least 50% granular material (salvaged or virgin). Salvaged Asphalt Mix and Granular Base Material will be blended to the satisfaction of the Engineer.

All other requirements for Base Course, Salvaged will apply.

GRAVEL CUSHION, SALVAGED

The Gravel Cushion, Salvaged will be obtained from the stockpile site(s) provided by the Contractor from the salvaged granular material produced on this project and may be used without further gradation testing.

The Contractor will ensure the Gravel Cushion, Salvaged material contains no more than 50% salvaged asphalt mix material and at least 50% granular material (salvaged or virgin). Salvaged Asphalt Mix and Granular Base Material will be blended to the satisfaction of the Engineer.

All other requirements for Gravel Cushion, Salvaged will apply.

TEMPORARY GRAVEL SURFACING

Temporary Gravel Surfacing will be required for surfacing transitions from the new pavement to the existing pavement to allow for continued traffic flow and access to driveways during and between phases as stated in the plans.

The Temporary Gravel Surfacing used in Phase 1 will be reused in Phase 2. The Temporary Gravel Surfacing used in Phase 3 will be reused in Phase 4. Temporary Gravel Surfacing used for transitions will meet all Base Course specifications and will be compacted to the satisfaction of the Engineer. All costs to furnish, install, compact, remove & relocate the Temporary Gravel Surfacing will be incidental to the contract unit price per ton for "Temporary Gravel Surfacing".

See Section C for Temporary Gravel Surfacing notes and details.

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	F2	F38

Plotting Date: 01/29/2025

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TABLE OF TEMPORARY GRAVEL SURFACING

TEMPORARY GRAVEL SURFACING			
PHASE	LOCATION	NUMBER	GRAVEL SURFACING (Ton)
Phase 1	Intersecting Streets	8	272
	Businesses	8	168
	Residences	10	210
	Cross Walks	8	80
Total Tons Phase 1			730
Phase 2	Intersecting Streets	5	170
	Businesses	18	378
	Residences	5	105
	Cross Walks	8	80
Total Tons Phase 2			733
Total Tons to be Paid for Phase 1 & Phase 2			733
Phase 3	Intersecting Streets	7	238
	Businesses	13	273
	Residences	1	21
	Cross Walks	8	80
Total Tons Phase 3			612
Phase 4	Intersecting Streets	9	306
	Businesses	10	210
	Residences	2	42
	Cross Walks	8	80
Total Tons Phase 4			638
Total Tons to be Paid for Phase 1 & Phase 2			638
TOTAL GRAVEL SURFACING			1371

Temporary cross walks – Locations will depend on the Contractor's sequence of operations and the direction of the Engineer. Estimated 10 tons for each cross walk. Intersecting Streets – Estimated 34 tons each at 40' wide. Business Access – Estimated 21 tons for each access 24' wide. Residences – Estimated 21 tons for each access 24' wide.

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TABLE OF 8" PCC PAVEMENT FOR DRIVEWAYS

Location	8" PCC DRIVEWAY PAVEMENT (SqYd)
Sta. 16+36 R	191.1
Sta. 19+10 R	149.9
Sta. 23+90 R	261.6
Sta. 27+04 R	194.4
Sta. 30+78 L	199.3
Sta. 30+78 R	184.2
Sta. 32+77 R	186.0
Sta. 35+88 R	210.6
Sta. 36+55 L	163.8
Sta. 44+36 L	19.4
Sta. 45+23 R	37.6
Sta. 47+64 L	40.1
Sta. 49+09 L	56.3
Sta. 50+46 R	45.4
Sta. 50+73 L	50.1
Sta. 52+84 R	88.4
Sta. 52+94 L	51.3
Sta. 57+34 L	20.9
Sta. 58+64R	122.9
Sta. 60+18, 105' R	53.2
Sta. 61+82 R	20.8
Sta. 66+00 L	49.0
Sta. 66+49 R	76.1
Sta. 67+14, 64' L	49.6
Sta. 67+85, 64' L	102.9
Sta. 68+93 L	35.6
Sta. 69+39 R	61.6
Sta. 72+80 L	22.4
Sta. 73+80 L	44.2
Sta. 75+90 L	81.1
Sta. 76+98 L	84.7
Sta. 77+93 L	44.6
Sta. 78+56 L	10.8
Sta. 88+19 L	21.4
Sta. 89+34 R	34.0
Sta. 89+61 L	19.3
Sta. 91+77 L	20.9
Sta. 111+50 L	295.1
Sta. 113+46 L	295.1
Sta. 118+54 R	441.8
Total:	4,137.5

TABLE OF 6" PCC PAVEMENT FOR DRIVEWAYS

Location	6" PCC DRIVEWAY PAVEMENT (SqYd)
Sta. 13+45 L	87.4
Sta. 71+85 L	23.6
Sta. 76+60 R	17.4
Sta. 79+97 L	43.3
Sta. 84+19 R	23.3
Sta. 85+69 R	22.2
Sta. 86+60 R	14.2
Sta. 87+29 R	27.4
Sta. 89+34 R	34.0
Total:	292.8

TABLE OF DOWEL BARS

Location	1 1/4" Bars
US 46	
Bars in Mainline	39,148
Bars in intersecting streets	2,373
Total Dowel Bars:	41,521

STEEL BAR INSERTION

The Contractor will insert the Steel Bars (1 1/4 inch x 18 inch epoxy coated plain round dowel bars) into drilled holes in the existing concrete pavement. An epoxy resin adhesive must be used to anchor the steel bar in the drilled hole.

The steel bars will be cut to the specified length by sawing or shearing and will be free from burring or other deformations.

Epoxy coated plain round steel bars will be inserted on 12 inch centers in the transverse joint. The first steel bar will be placed a minimum of 3 inches and a maximum of 9 inches from the outside edge of the slab.

TABLE OF STEEL BAR INSERTION

LOCATION	1-1/4" x 18" Plain Round Dowel Bars
Sta. 11+00	37
Sta. 28+79 - 85' L	35
Sta. 32+77 - 82' L	36
Sta. 42+40 - 100' L	40
Sta. 67+50- 88' R	70
Sta. 124+66	42
Total:	260

Plotting Date: 01/29/2025

Revised 01-29-2025 LLA

TABLE OF MATERIALS QUANTITIES

LOCATION		WATER FOR GRANULAR MATERIAL (MGal)	GRAVEL CUSHION, SALVAGED/ GRAVEL CUSHION (Ton)	BASE COURSE, SALVAGED (Ton)	BASE COURSE (Ton)	GRAVEL SURFACING (Ton)	ASPHALT CONCRETE COMPOSITE	
Station	to Station						1st Lift (Ton)	Top Lift (Ton)
MAINLINE								
11+00.00	to 56+34.00	113.1	9,425.0					
56+34.00	to 119+36.00	122.6	10,214.0					
119+36.00	to 124+66.00	10.4	870.0					
INTERSECTING STREETS								
394th Avenue - North		0.9	72.0					
394th Avenue - South		0.9	74.0				19.0	19.0
Lane Street - North		0.8	68.0					
Old Highway 50 - North		1.5	122.0					
Walnut Avenue SW - South		0.9	77.0					
Birch Avenue SW - South		0.7	55.0				9.0	9.0
Washington Avenue NW - North		0.8	63.0				11.0	11.0
High Avenue NW - North		0.5	44.0				5.0	5.0
High Avenue SW - South		2.1	172.0				28.0	28.0
West Avenue NW - North		0.5	44.0				5.0	5.0
West Avenue SW - South		0.6	51.0				8.0	8.0
Main Street - North		1.4	118.0				40.0	40.0
Main Street - South		1.6	131.0					
East Avenue SE - South		0.8	70.0				16.0	16.0
Grant Avenue SE - South		0.6	51.0				8.0	8.0
Grant Avenue NE - North		0.7	56.0				9.0	9.0
Sheridan Avenue SE - South		0.7	58.0				9.0	9.0
Front Avenue NE - North		1.9	162.0				20.0	20.0
Front Avenue SE - South		2.0	168.0				23.0	23.0
Tenth Avenue NE - North		0.4	34.0					
Harr Avenue - South		0.6	50.0					
8" PCC DRIVEWAY PAVEMENT (40)		12.0	960.0					
6" PCC DRIVEWAY PAVEMENT (9)		0.9	63.0					
ASPHALT CONCRETE COMPOSITE DRIVEWAYS (3)		1.5			126.0		96.0	96.0
GRANULAR DRIVEWAYS (33)		3.3	396.0					
TRAFFIC CONTROL QUANTITIES								
9+55.00	to 10+00.00	0.1		8.2			1.9	2.1
10+00.00	to 20+25.00	3.6		297.7			86.4	86.4
20+25.00	to 28+52.43	7.8		646.4			214.1	214.1
28+52.43	to 40+72.43	5.3		439.8			133.3	133.3
40+72.43	to 42+62.47	0.8		68.5			20.8	20.8
42+62.47	to 65+50.00	9.9		824.4			250.0	250.0
65+50.00	to 66+50.00	3.0	249.8				47.3	47.3
66+50.00	to 81+82.69	6.6			552.4		167.5	167.5
81+82.69	to 108+26.39	11.4			952.8		288.9	288.9
108+26.39	to 112+46.39	2.5			210.4		66.9	66.9
112+46.39	to 125+66.00	11.3			938.4		308.6	308.6
125+66.00	to 126+42.55	0.4			34.1		8.5	9.3
TEMPORARY GRAVEL SURFACING - TRAFFIC CONTROL		16.5				1,371.0		
Totals		363.9	23,917.8	2,285.0	2,814.1	1,371.0	3,801.4	

Plot Scale - 1:200

Plotted From - TRPR13462

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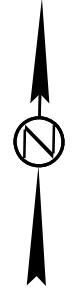
PCC PAVEMENT JOINT LAYOUTS

Scale 1 Inch = 40 Feet
Sheet 6 of 20 Sheets

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	F16	F38

Plotting Date: 01/29/2025

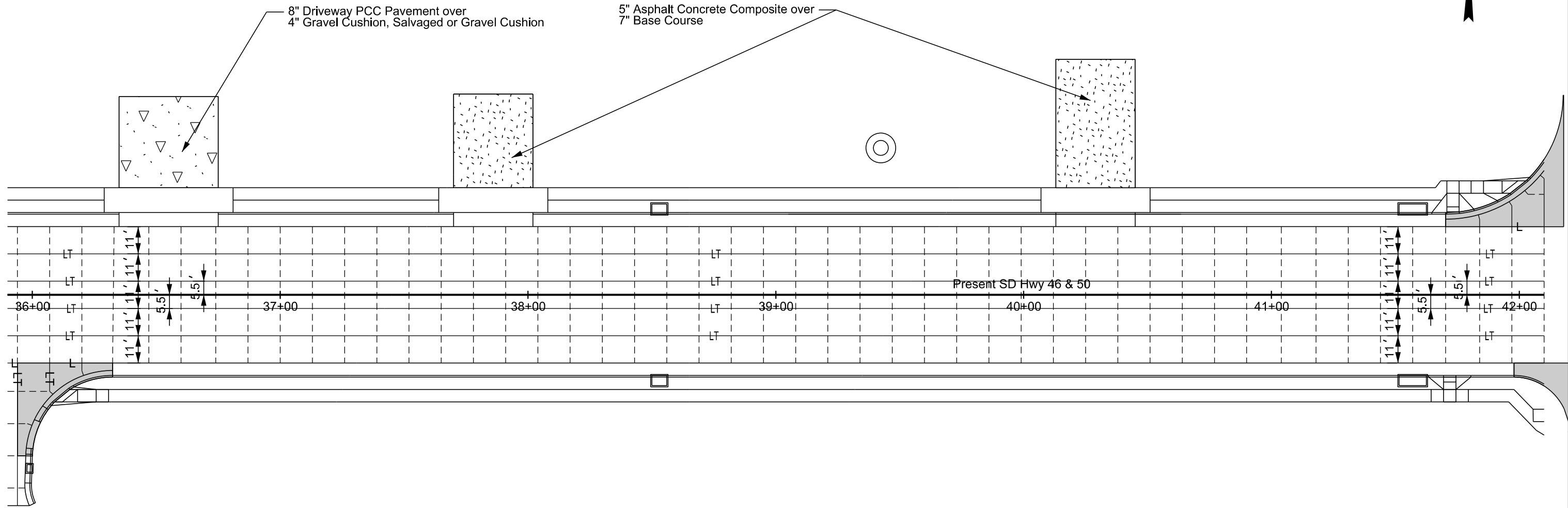
Revised: 01/24/2025 RTS



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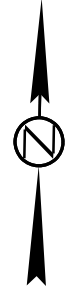
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Sheet 9 of 20 Sheets

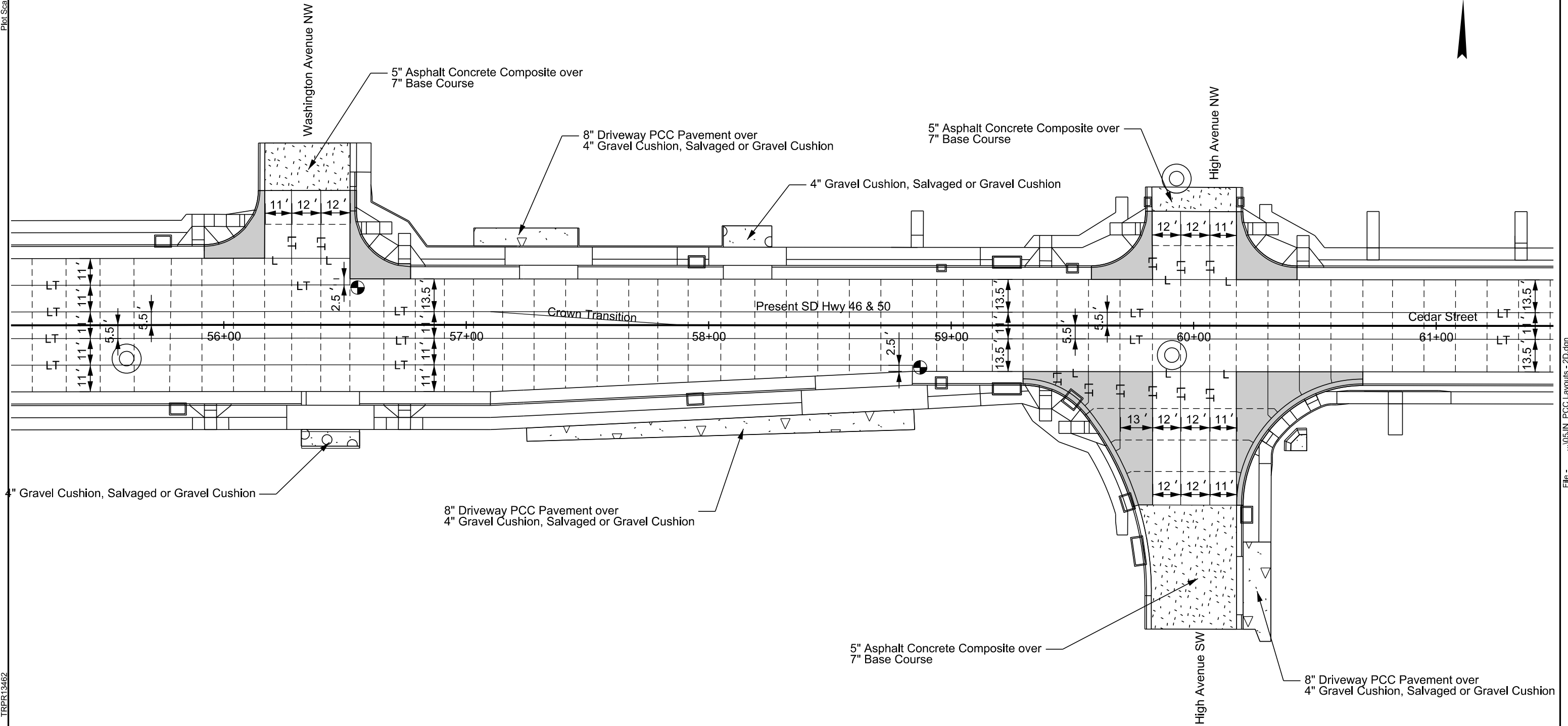
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	F19	F38

Plotting Date: 01/29/2025

Revised: 01/28/2025 RTS



Plot Scale - 1:40



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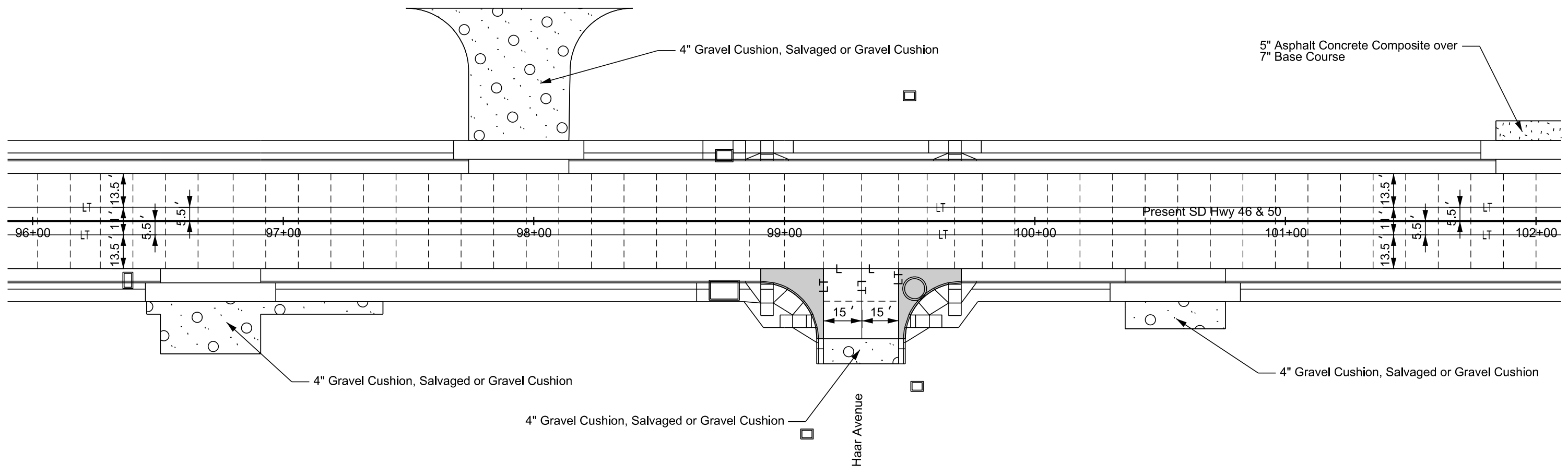
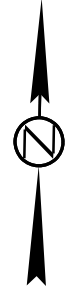
PCC PAVEMENT JOINT LAYOUTS

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Sheet 16 of 20 Sheets

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	F26	F38

Plotting Date: 01/29/2025

Revised: 01/24/2025 RTS



Plot Scale - 1:40

Plotted From - TRPR13462

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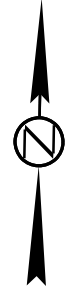
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Scale 1 Inch = 40 Feet
Sheet 17 of 20 Sheets

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	F27	F38

Plotting Date: 01/29/2025

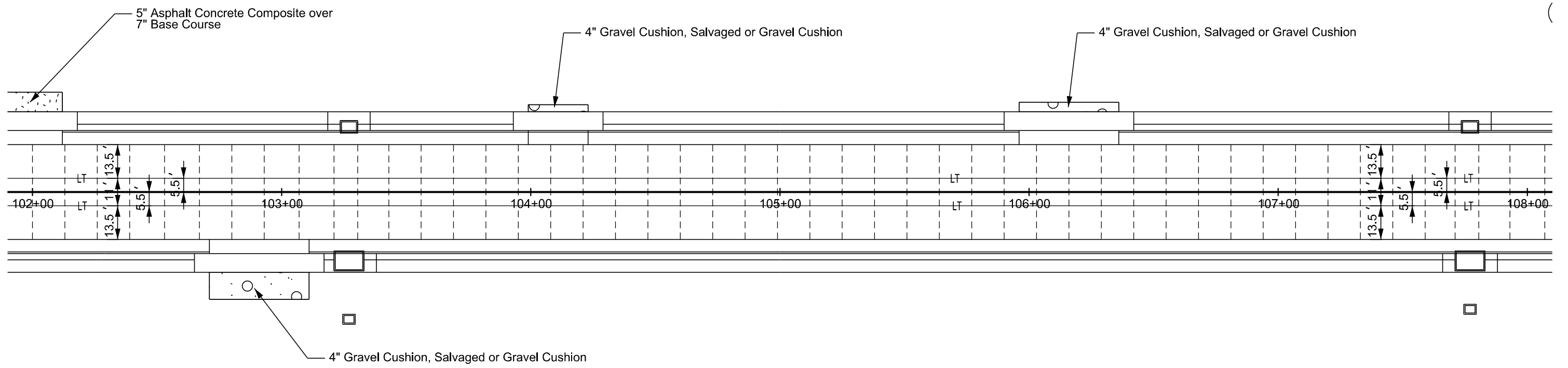
Revised: 01/24/2025 RTS



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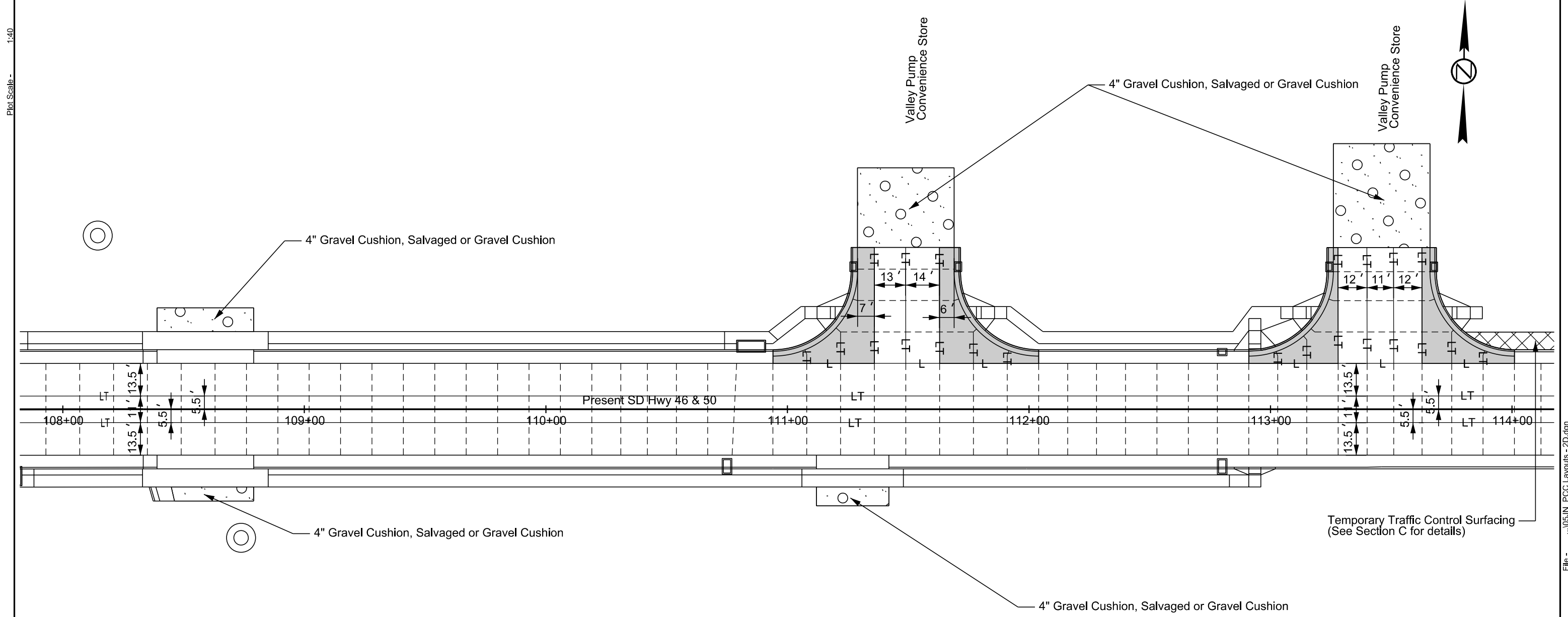
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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	F28	F38

Plotting Date: 01/29/2025

Revised: 01/24/2025 RTS

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Plotted From - TRPR13462

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CONDUIT LAYOUT SD HWY 46

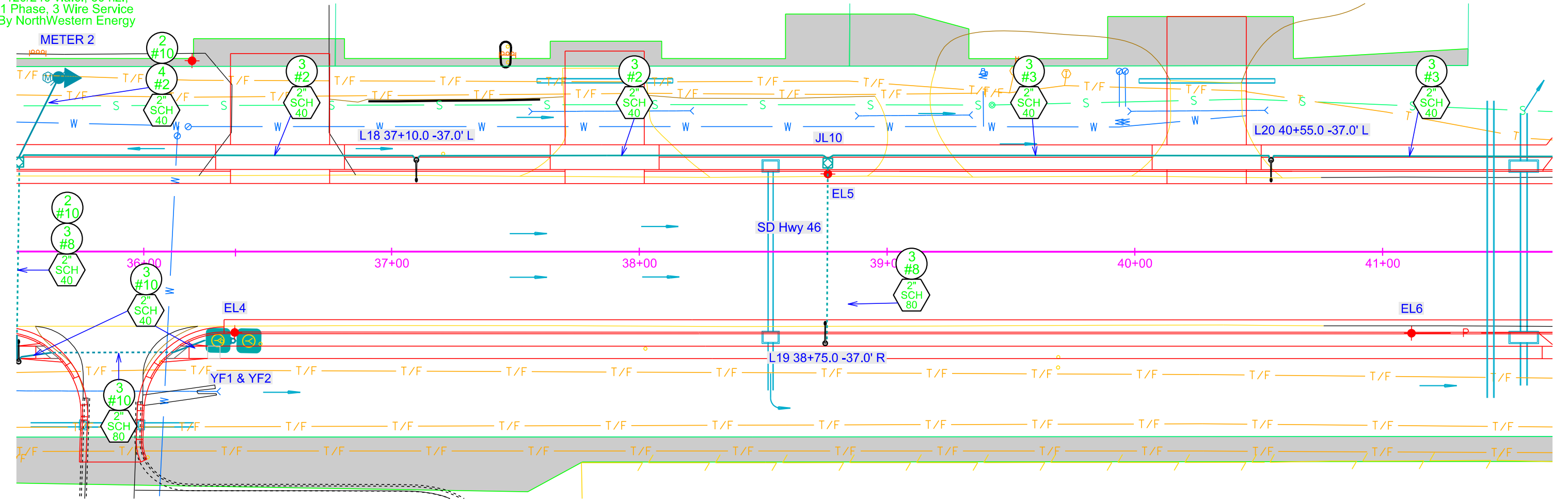
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	NH-CR 0046(69)288	L21	L54

Plotting Date: 01/27/2025

Plot Scale - 1"=40'



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1 Phase, 3 Wire Service
By NorthWestern Energy



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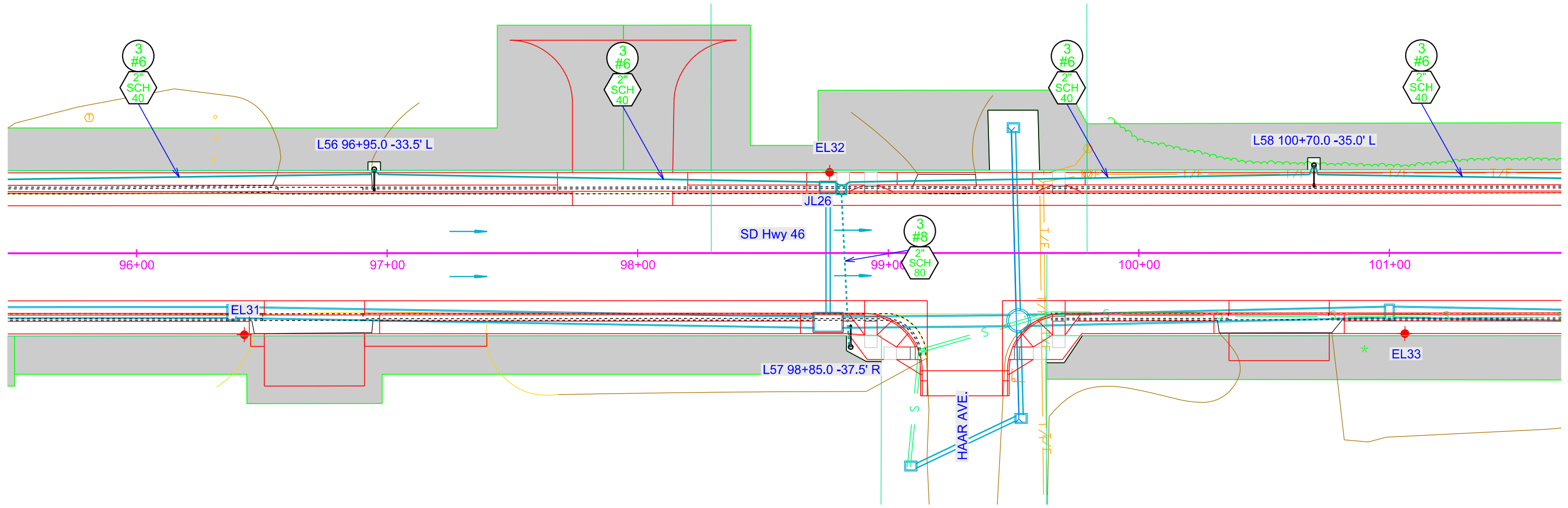
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CONDUIT LAYOUT SD HWY 46

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	L33	L54

Plotting Date: 01/24/2025

Revised 01/24/2025 - JU



Plot Scale - 1"=40'

Plotted From - TTR011715

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CONDUIT LAYOUT SD HWY 46

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	L34	L54

Plotting Date: 01/24/2025

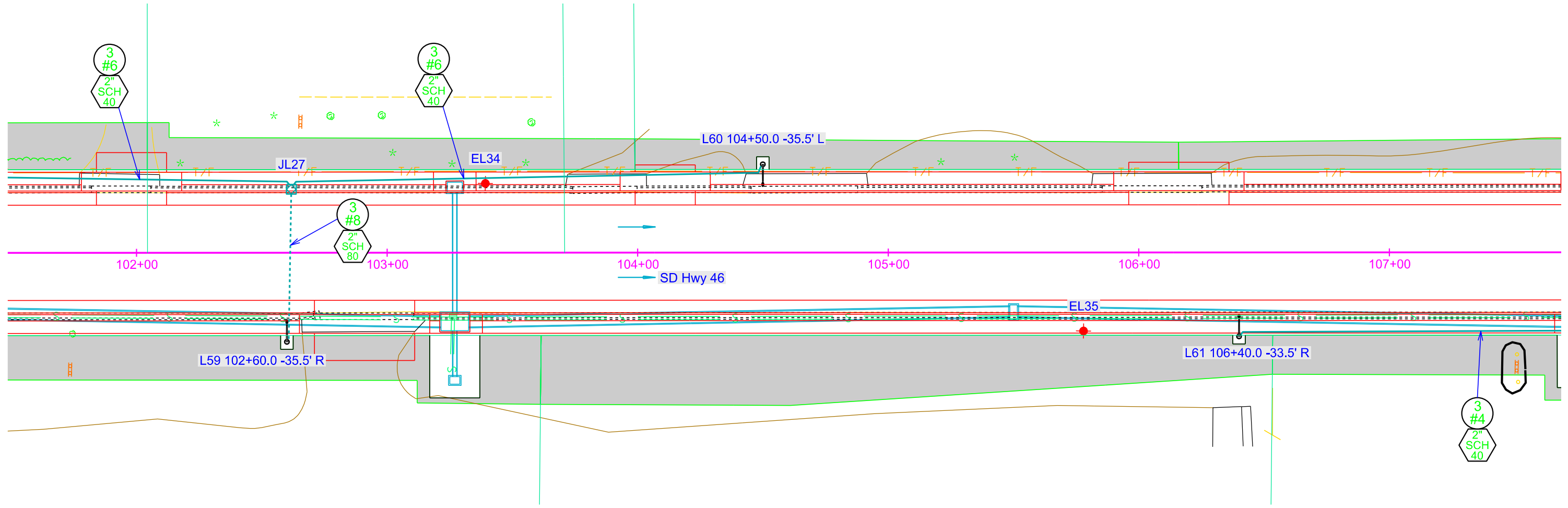
Revised 01/24/2025 - JU



Plot Scale - 1"=40'

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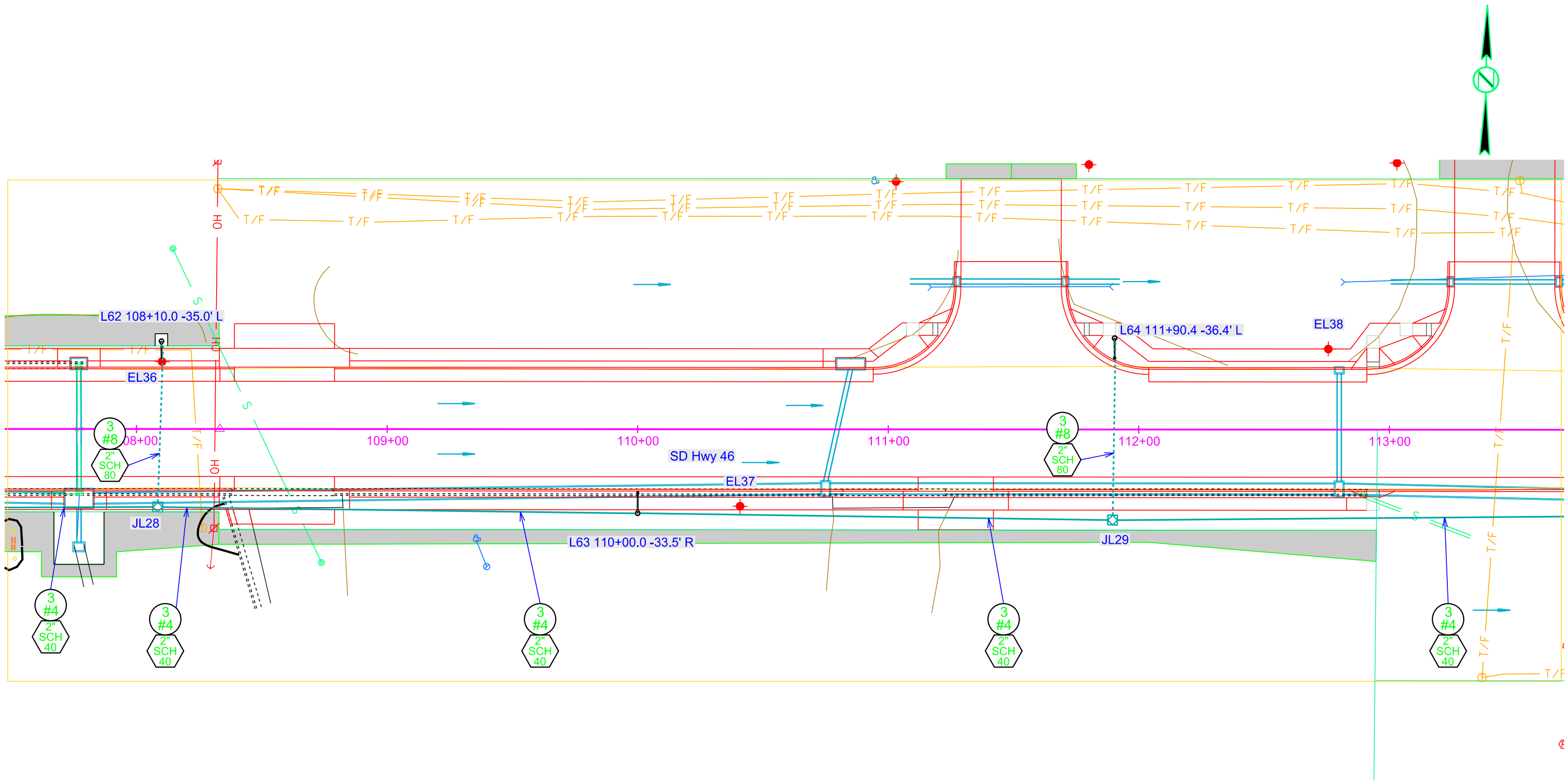
CONDUIT LAYOUT SD HWY 46

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0046(69)288	L35	L54

Plotting Date: 01/24/2025
Revised 01/24/2025 - JU

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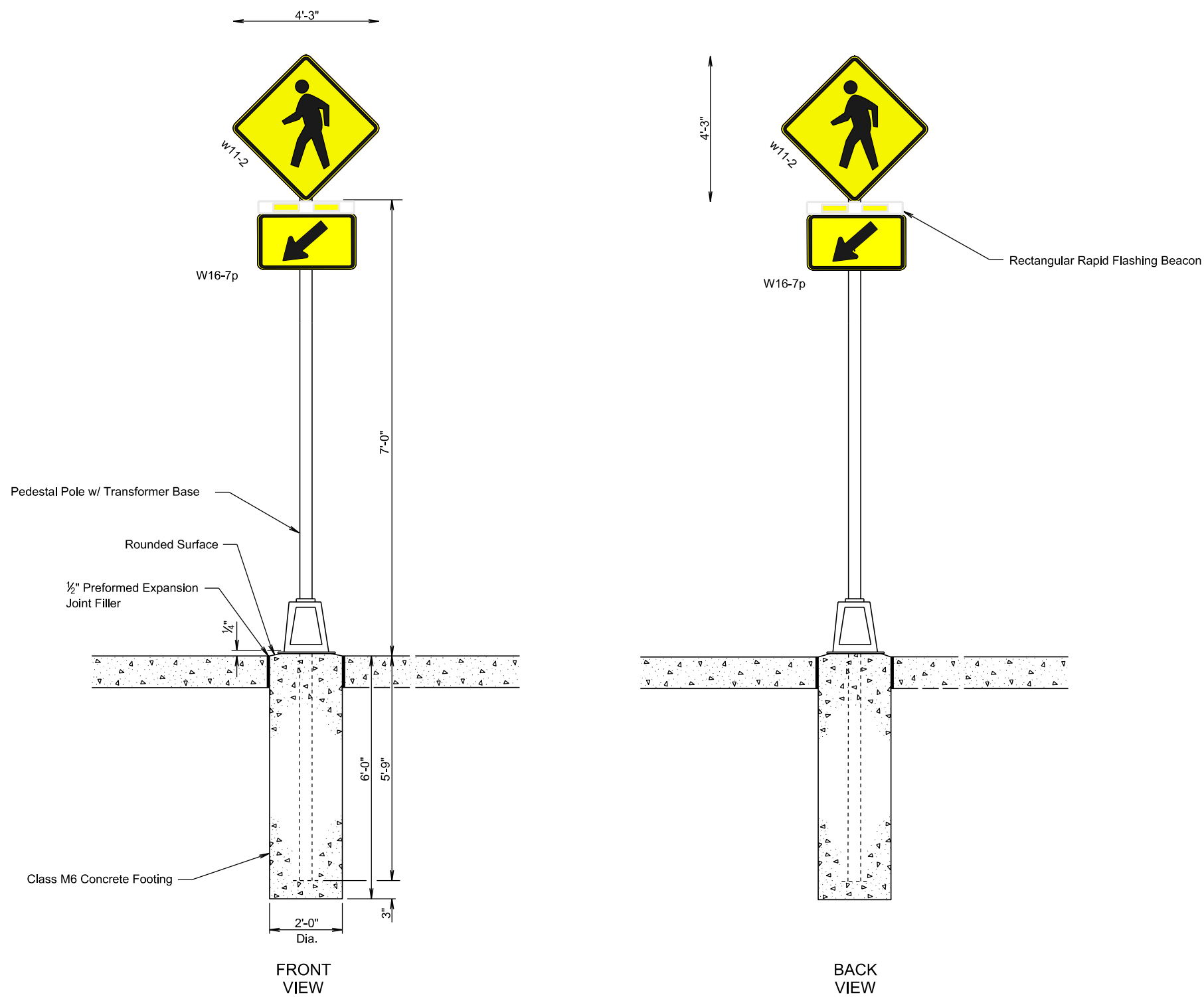


SPECIAL DETAIL

RECTANGULAR RAPID FLASHING BEACONS & SIGNS

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET L47-A	TOTAL SHEETS L54
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Revised 1/30/2025 - RR



Plot Scale - 1:200

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Plotted From -

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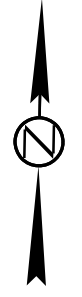
PAVEMENT MARKINGS

SD HWY 46

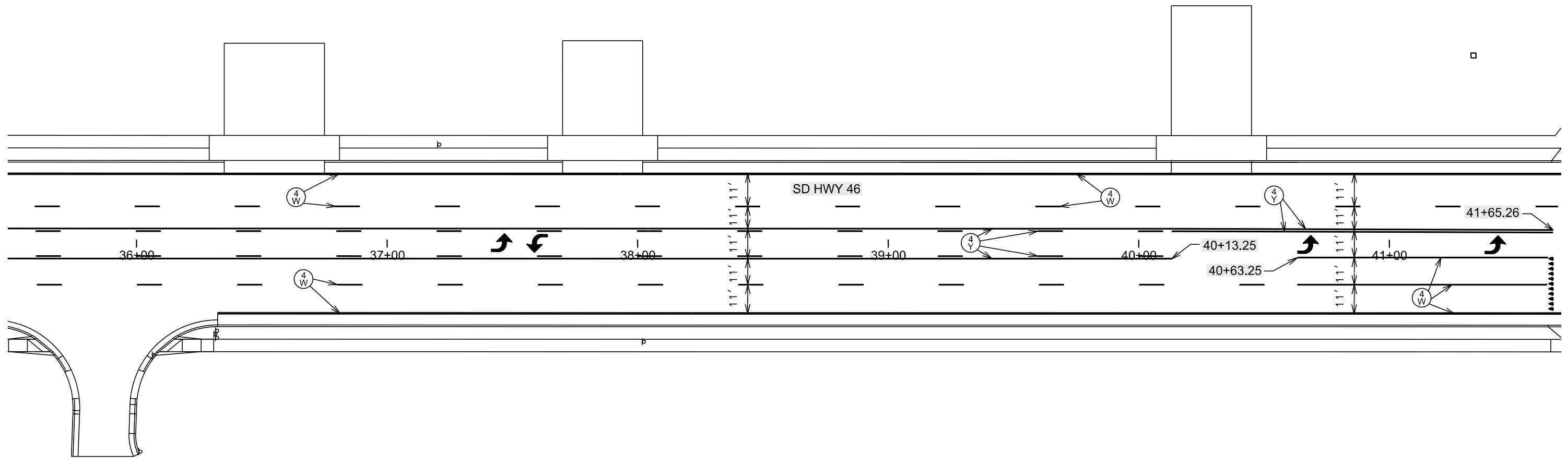
WAGNER, SD

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET M10	TOTAL SHEETS M26
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Plotting Date: 01/24/2025
 Revised 01/24/25-JU



Plot Scale - 1:40



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PAVEMENT MARKINGS

SD HWY 46

WAGNER, SD

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET M20	TOTAL SHEETS M26
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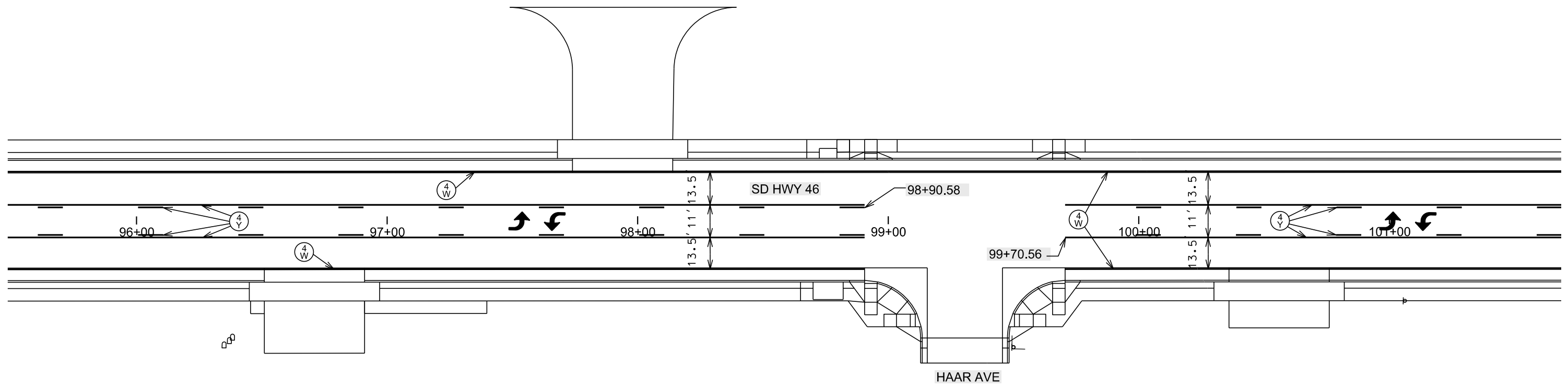
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Revised 01/24/25-JU



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PAVEMENT MARKINGS

SD HWY 46

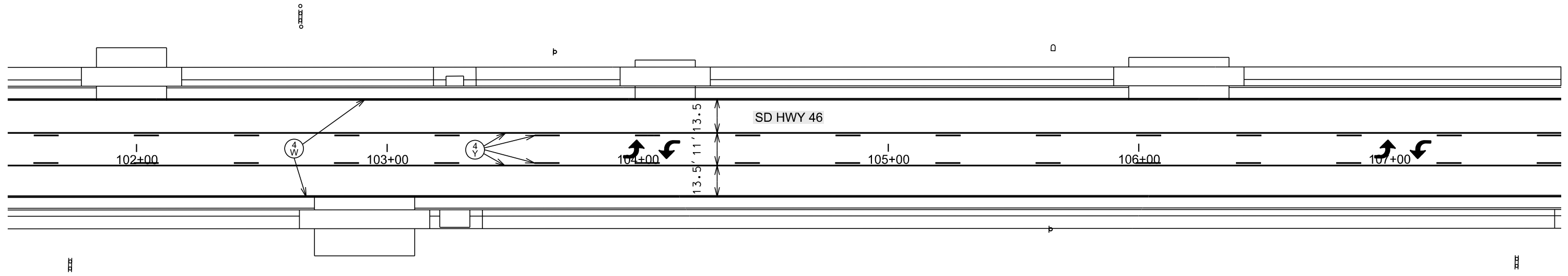
WAGNER, SD

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET M21	TOTAL SHEETS M26
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Plotting Date: 01/24/2025
 Revised 01/24/25-JU



Plot Scale - 1:40



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PAVEMENT MARKINGS

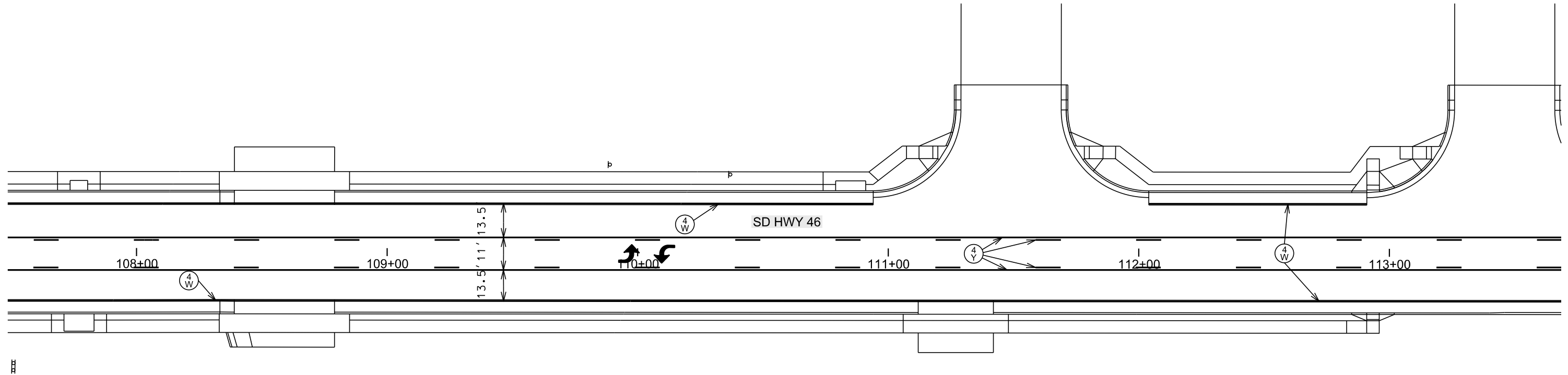
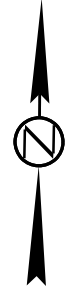
SD HWY 46

WAGNER, SD

STATE OF SOUTH DAKOTA	PROJECT NH-CR 0046(69)288	SHEET M22	TOTAL SHEETS M26
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Plotting Date: 01/24/2025

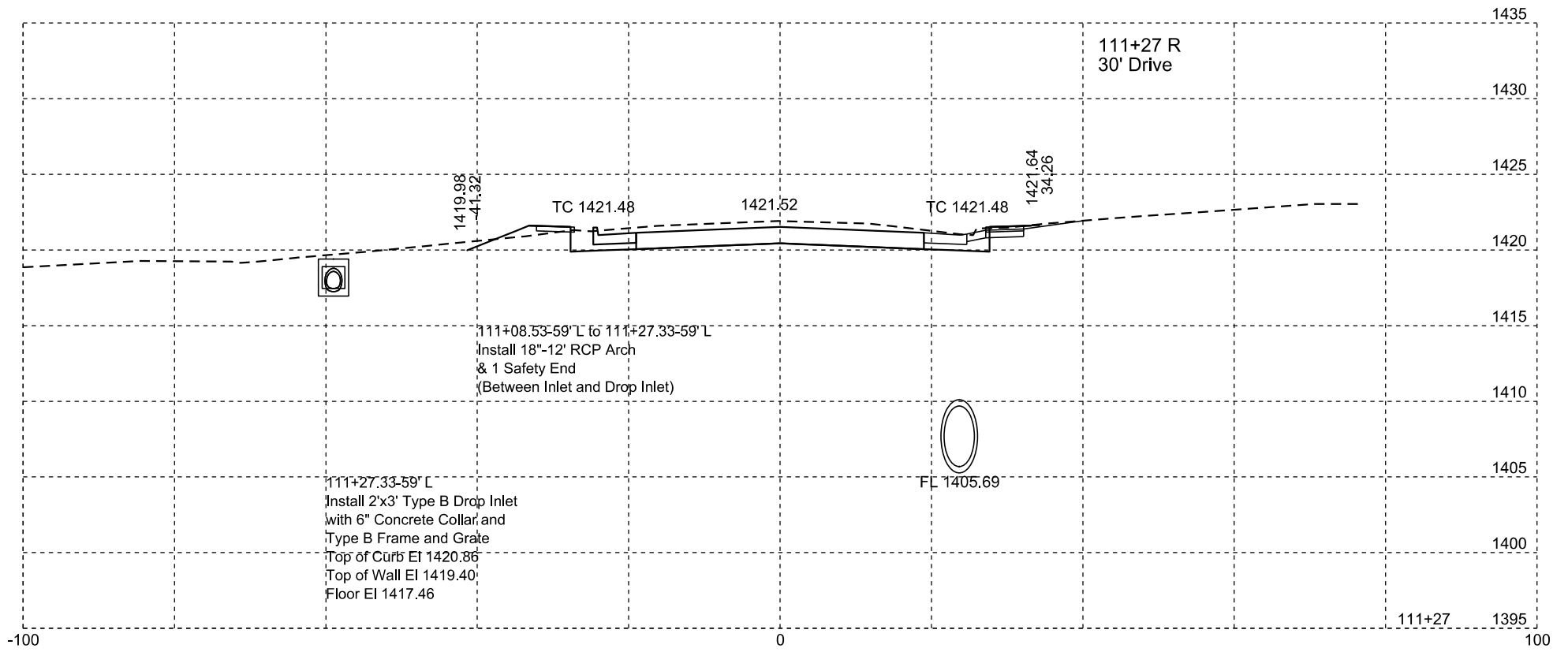
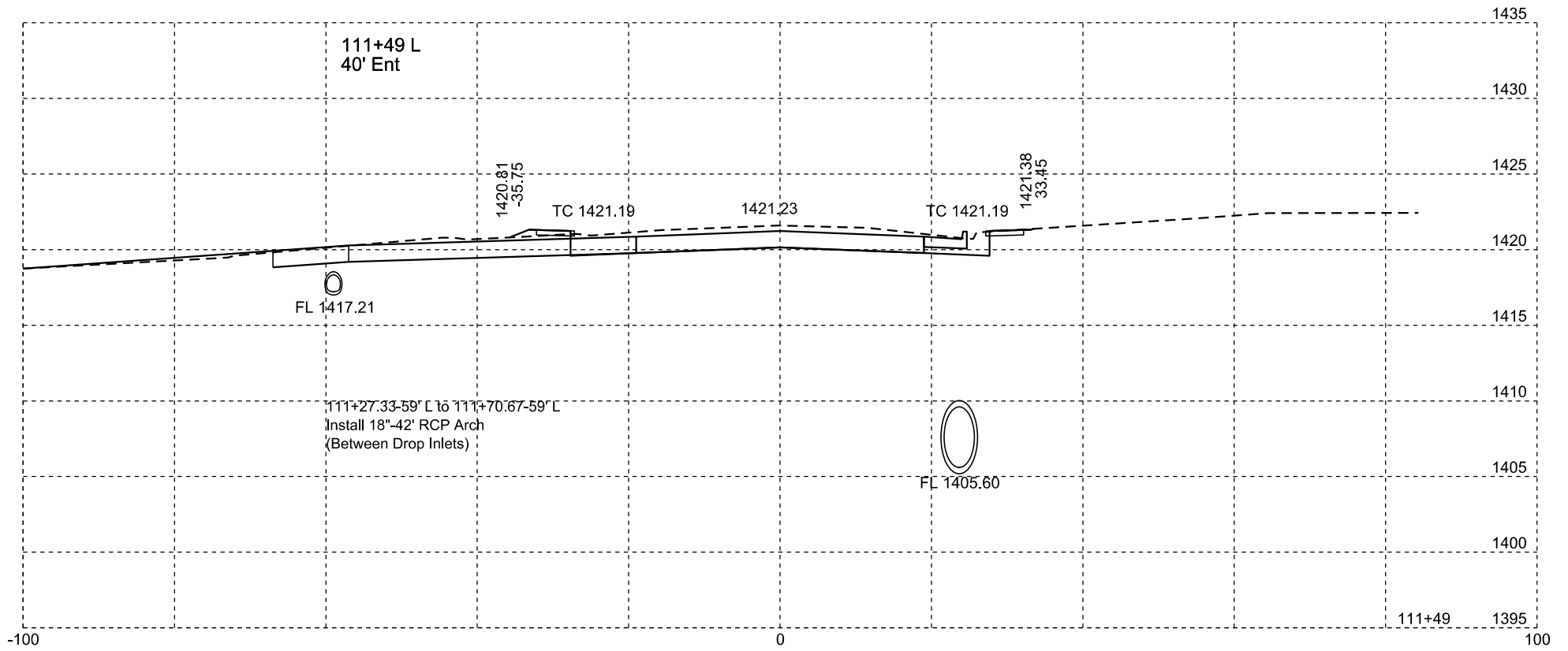
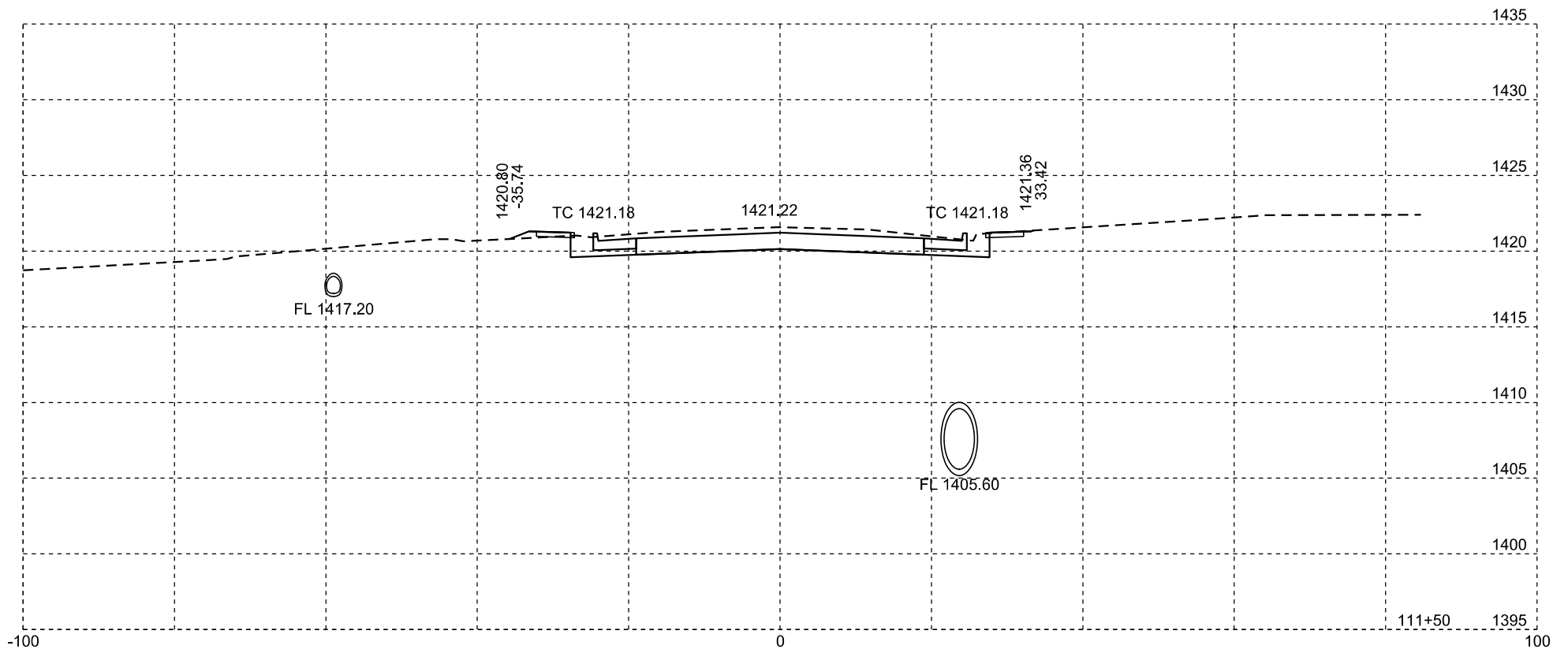
Revised 01/24/25-JU

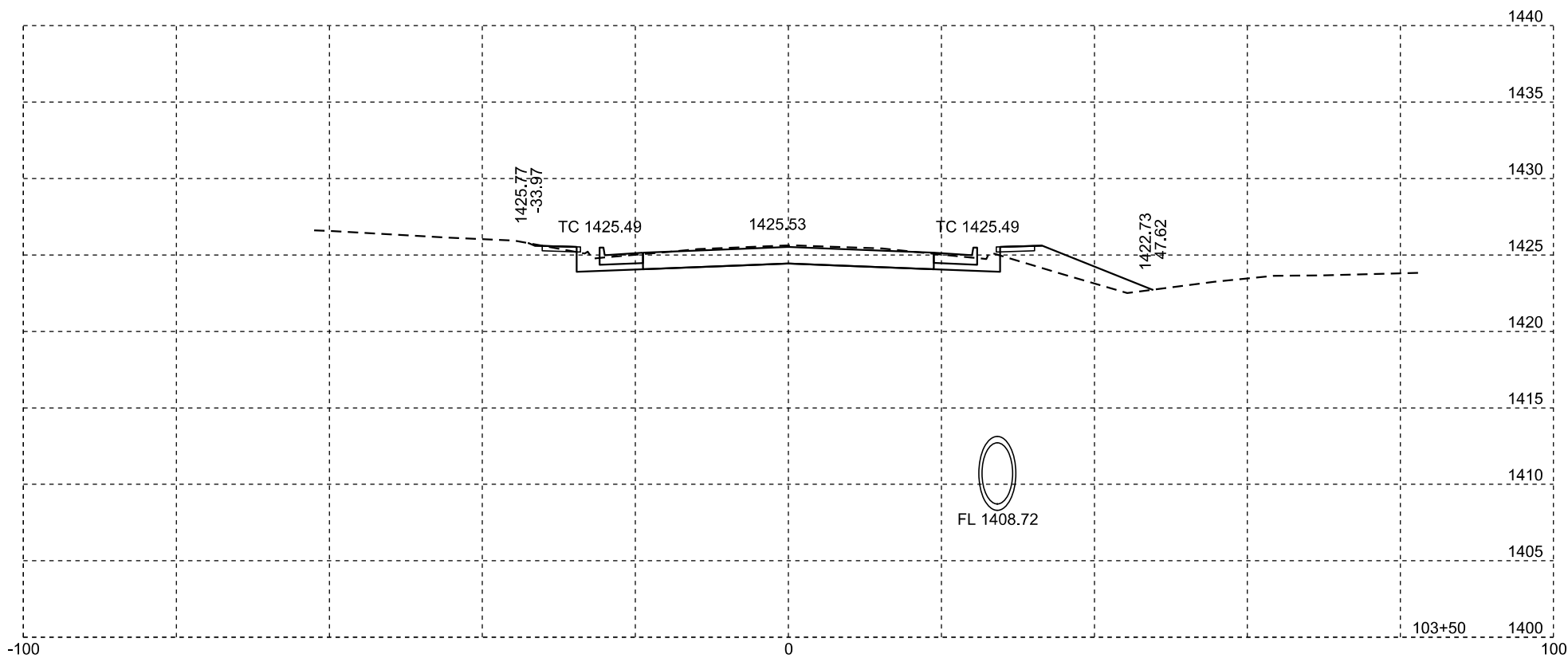
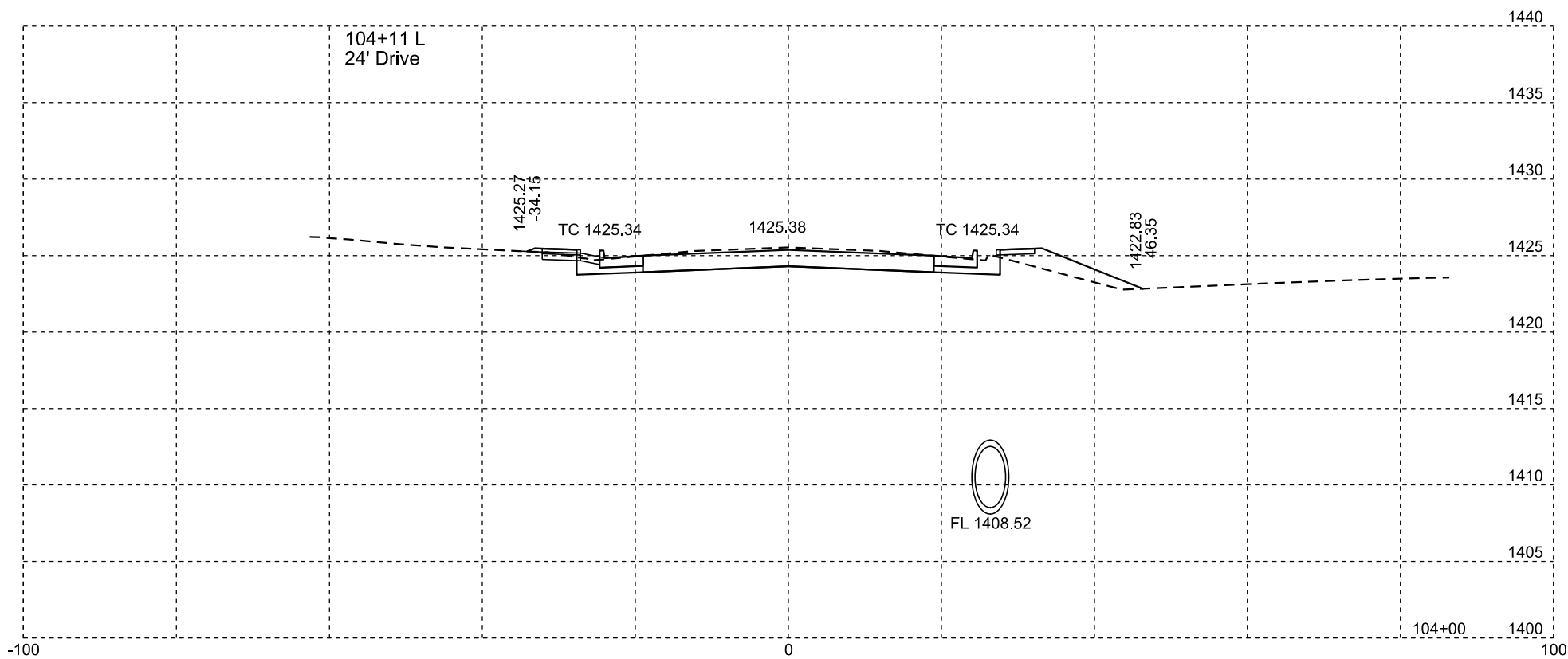
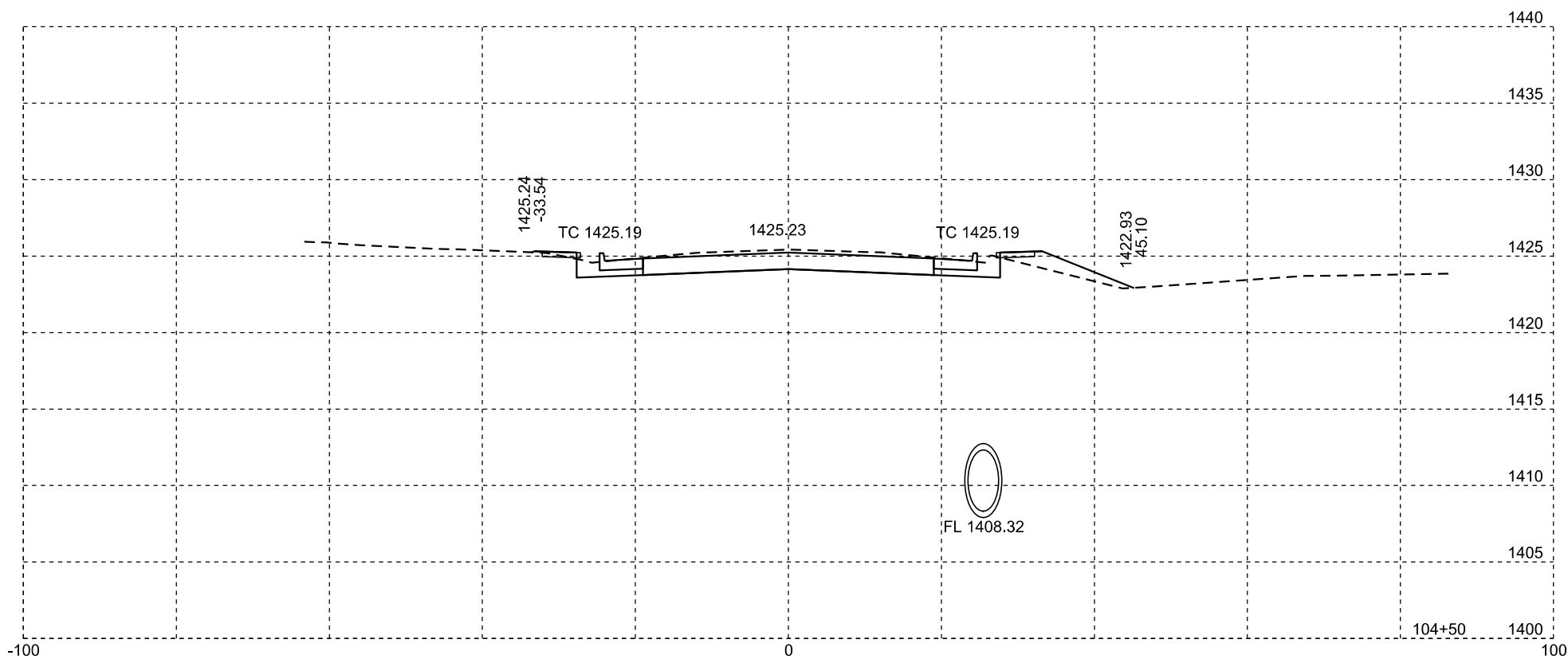


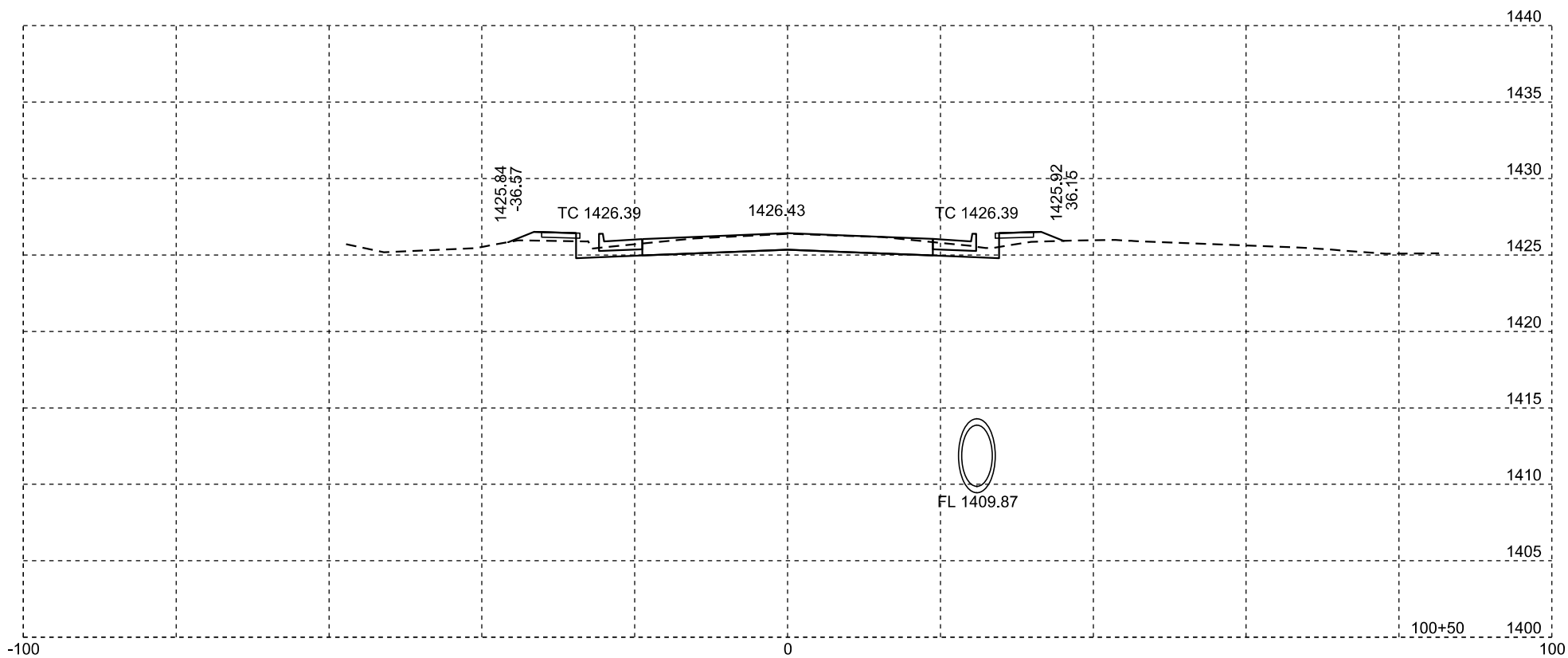
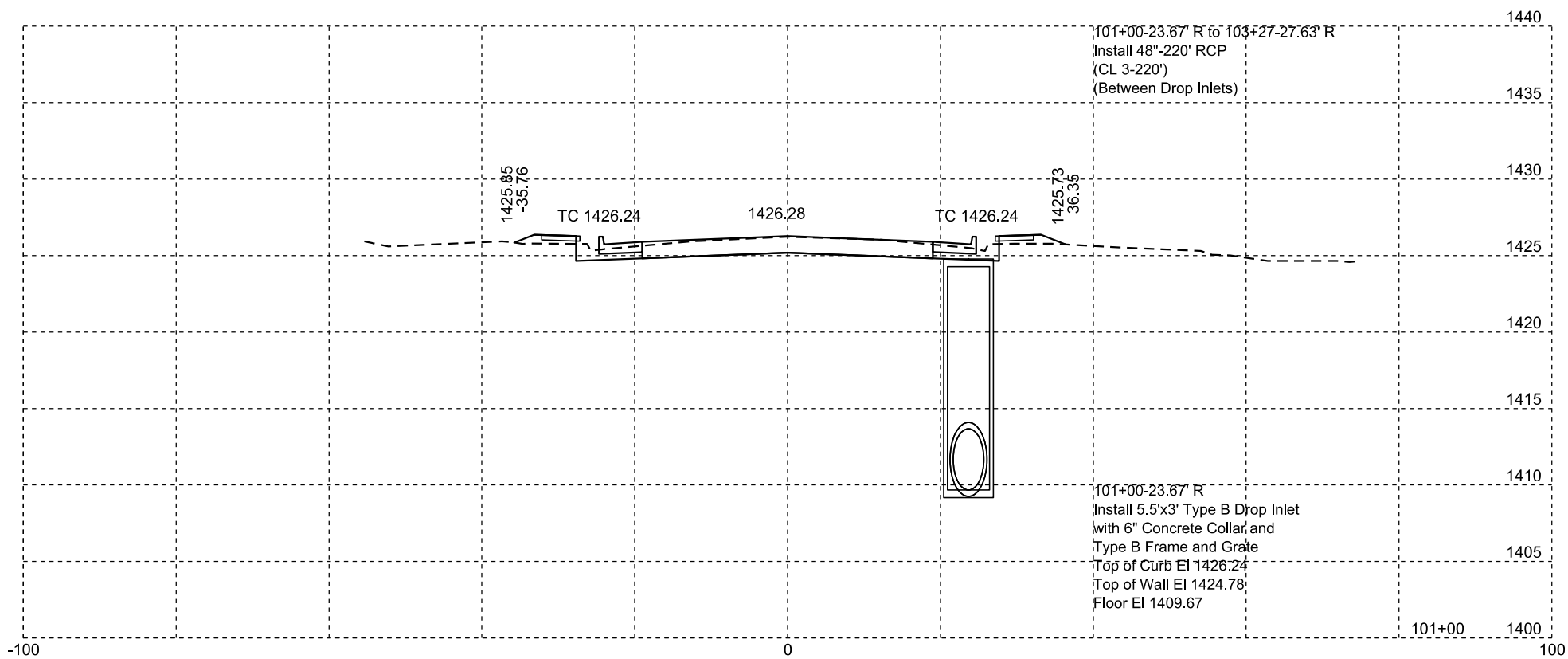
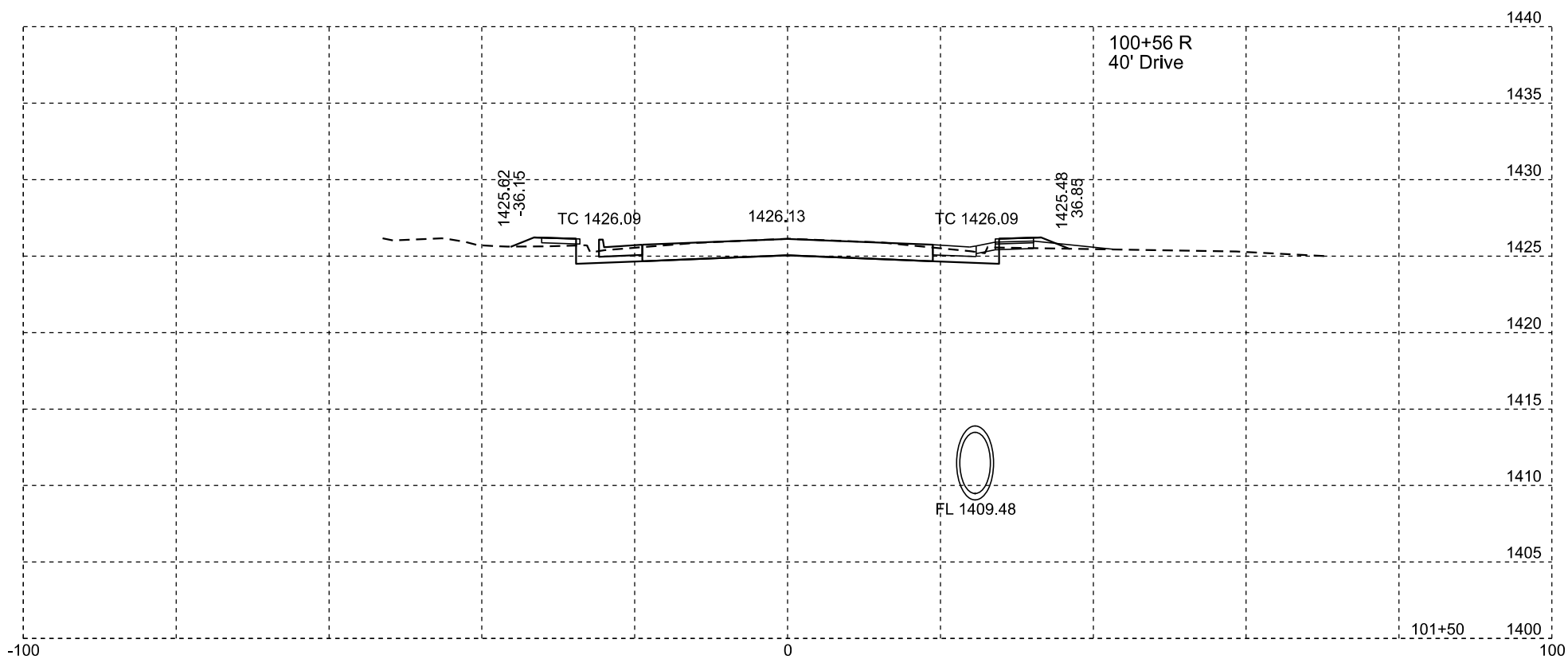
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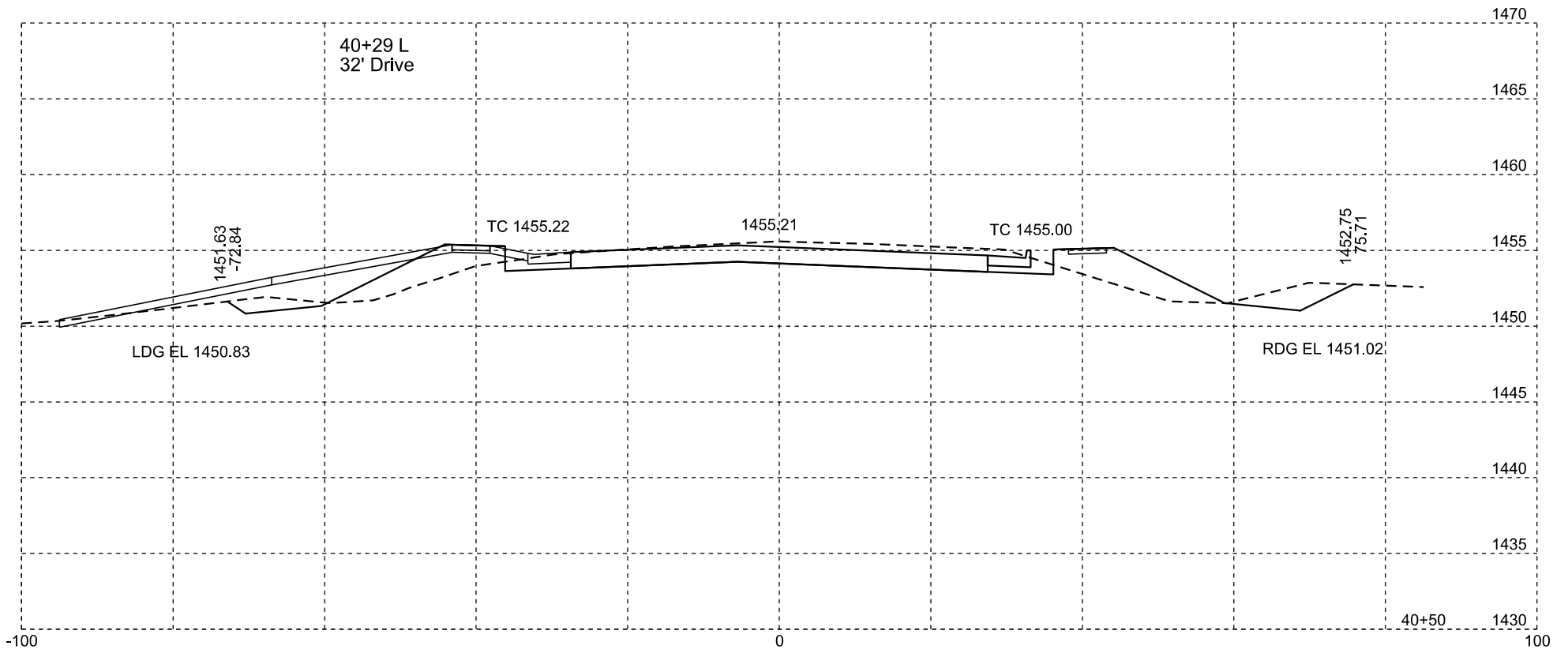
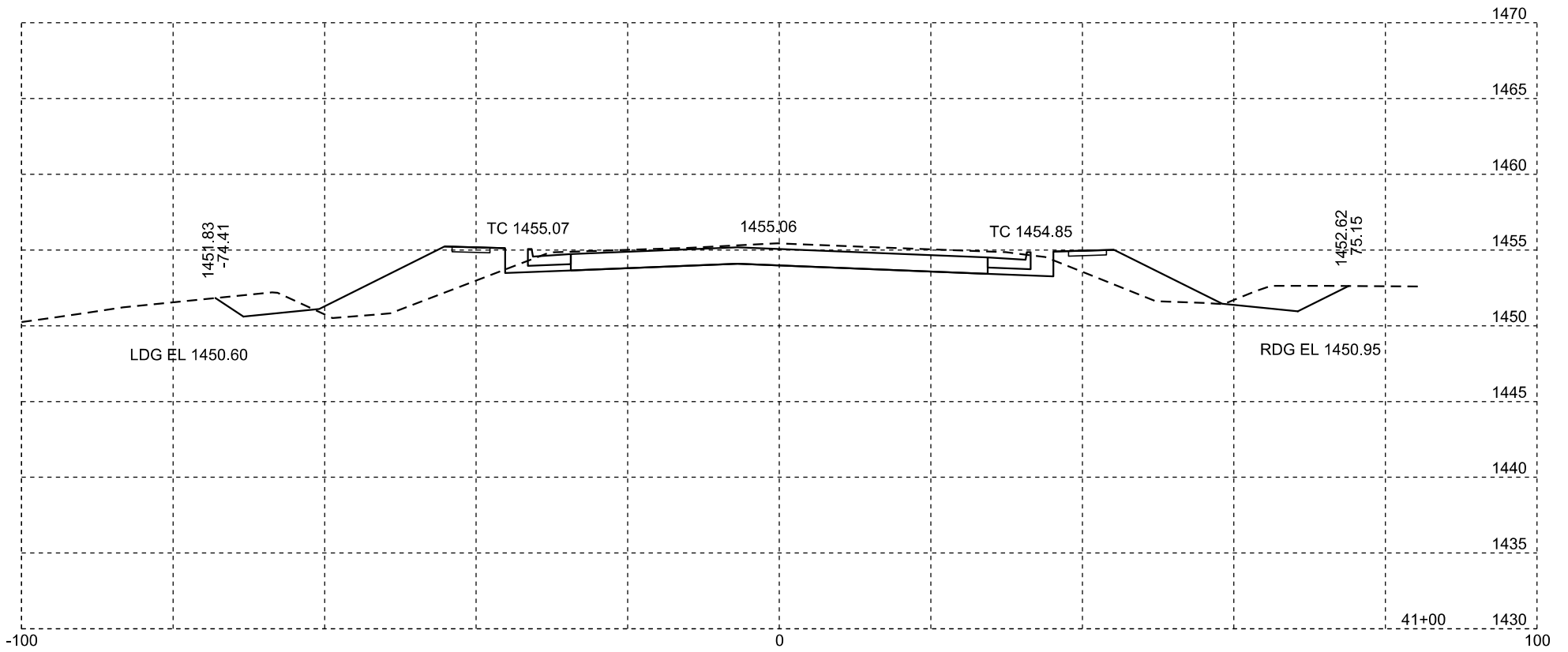
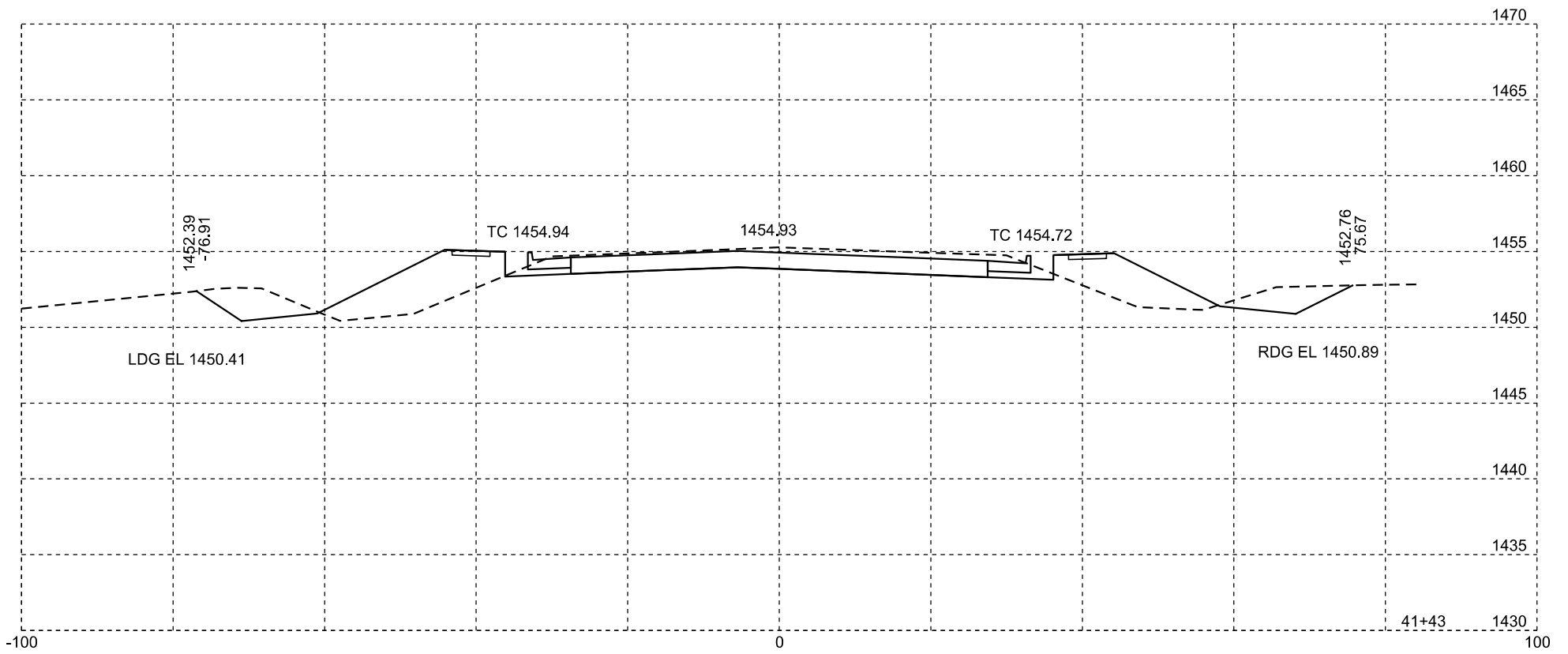
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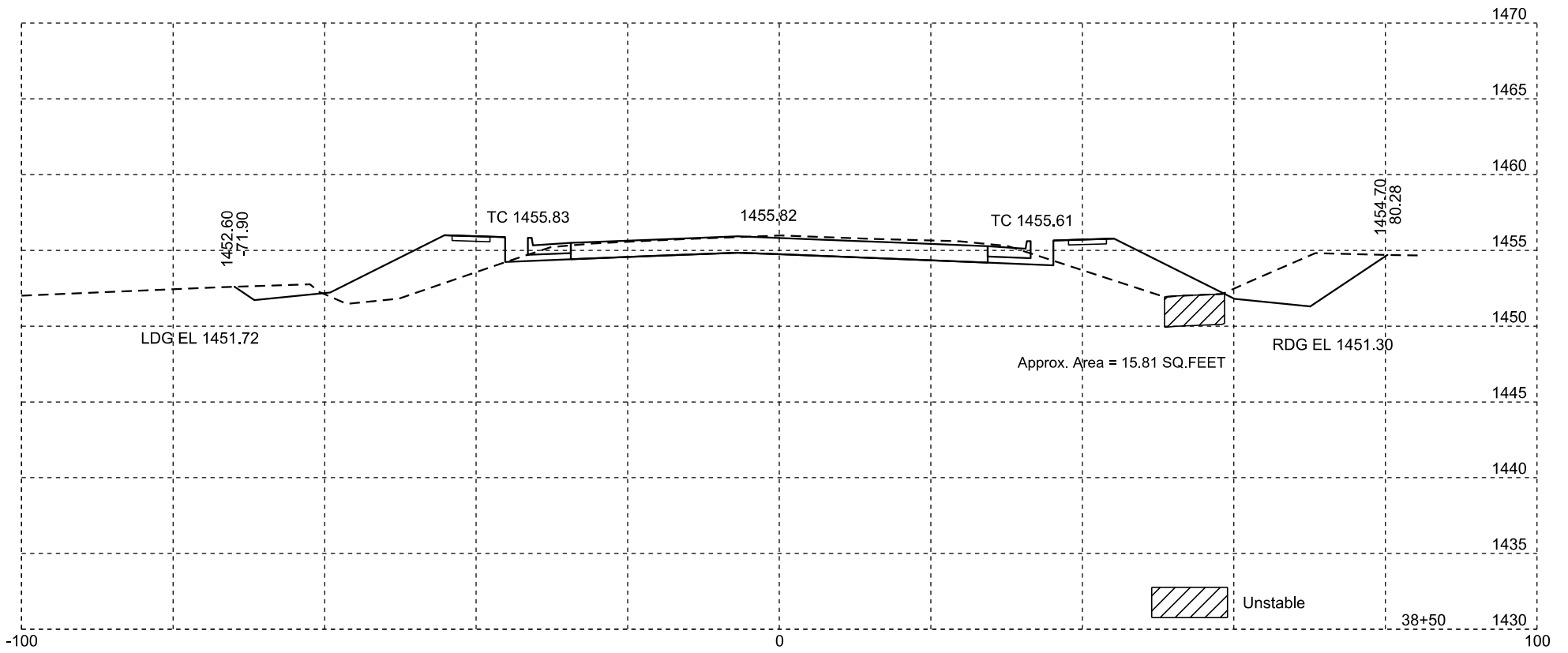
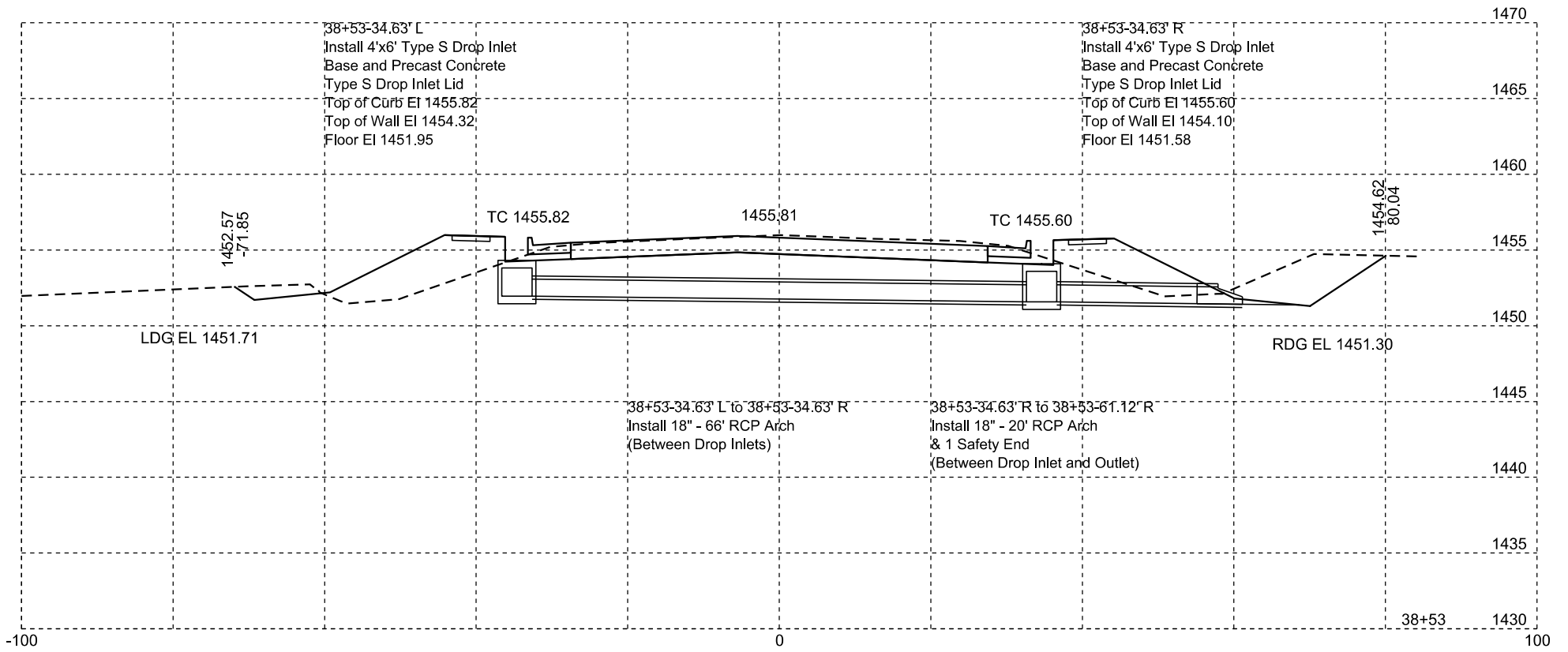
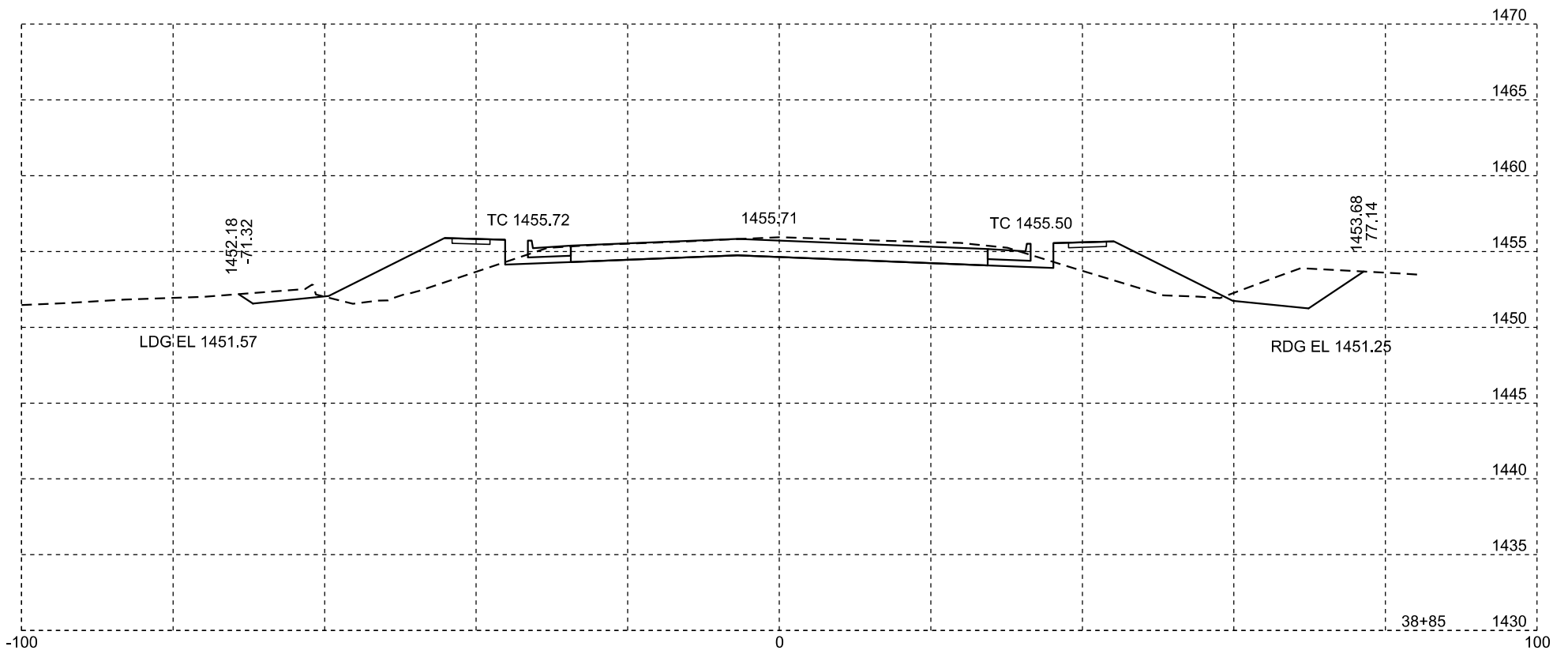
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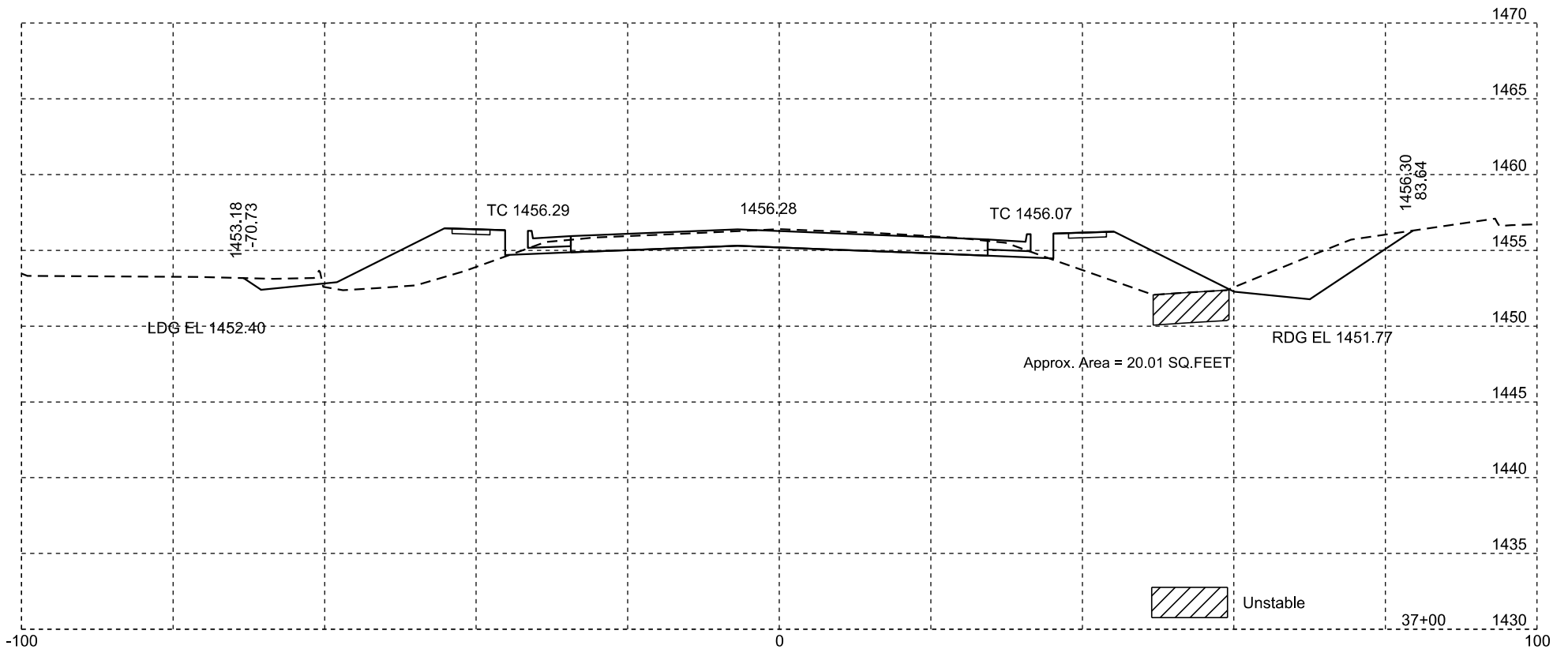
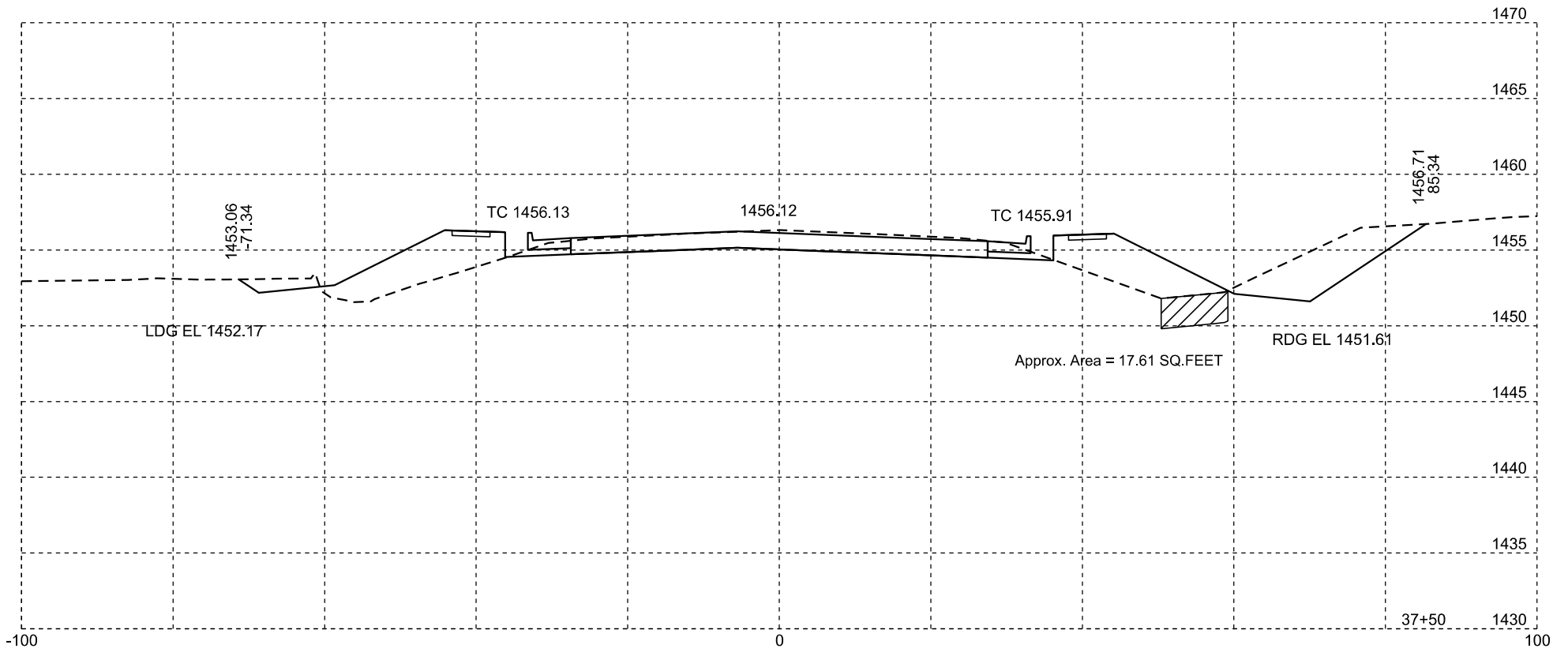
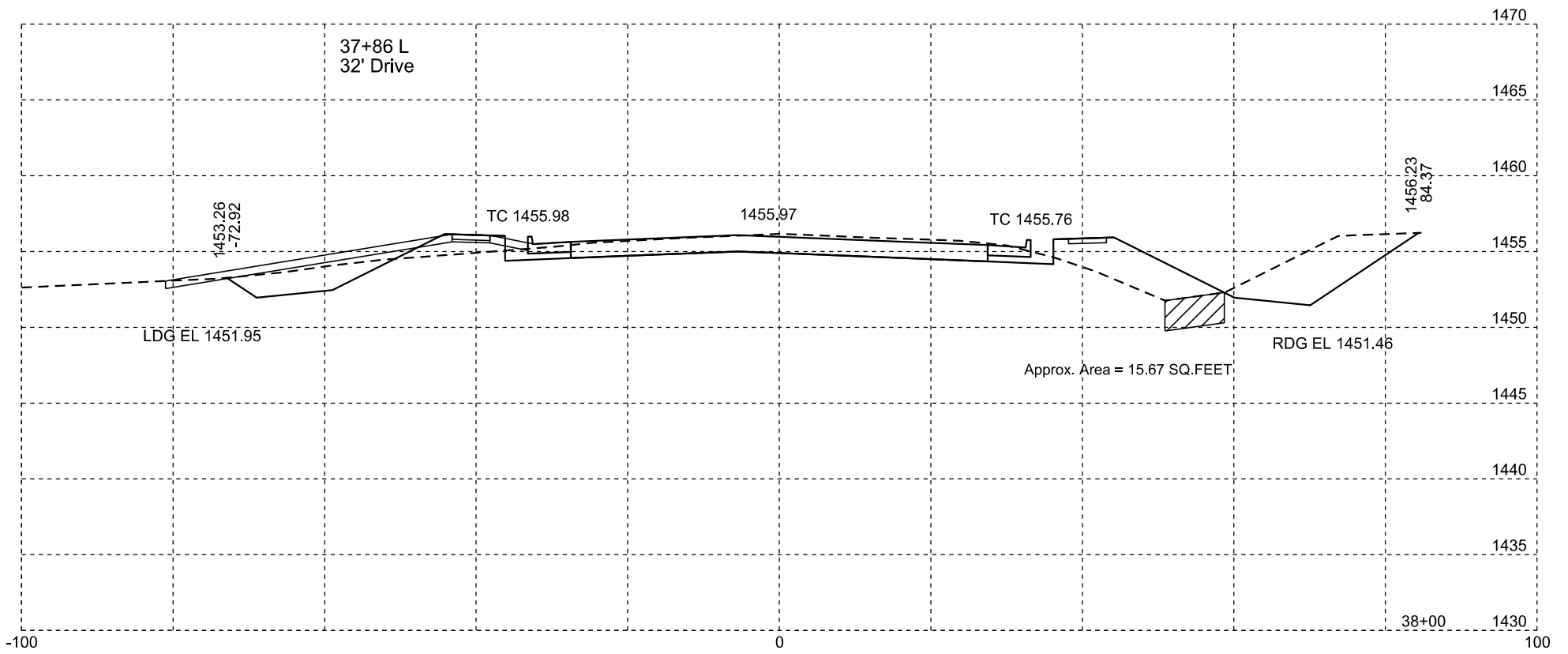








STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	NH-CR 0046(69)288	X106	X139



 Unstable

