

 = CORPORATE LIMITS
 = CENTERLINE

EXISTING

 = R.O.W.
 = PROPERTY LINE
 = UNDERGROUND TELEPHONE LINE
 = UNDERGROUND ELECTRIC LINE
 = UNDERGROUND ELECTRIC 3 PHASE
 = OVERHEAD ELECTRIC LINE
 = GAS MAIN
 = GASOLINE MAIN
 = UNDERGROUND CABLE TV
 = UNDERGROUND FIBER OPTIC LINE
 = TELEPHONE/CABLE TV PEDESTAL
 = CONTROL CABINET/TRANSFORMER
 = SIGN
 = CATCH BASIN
 = STORM SEWER MANHOLE
 = OUTLET CONTROL STRUCTURE
 = STORM SEWER LINE
 = CONCRETE CURB & GUTTER

 = CONCRETE CURB & GUTTER
 = CATCH BASIN
 = STORM SEWER LINE

1. THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, ELECTRIC, CABLE TV, AND PIPE LINES ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL (651-454-0002) BEFORE COMMENCING EXCAVATION.
2. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL 1. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/AGE 18-22, ENR 10 "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."
3. THESE PROJECTS AREA LOCATED WITHIN THE BOUNDARY OF THE LOWER RUM WATERSHED MANAGEMENT ORGANIZATION (LRRWMO)

2025 STREET RECONSTRUCTION
XENIA ST / VINTAGE ST / 161ST AVE (C.P. 25-02A)
INDIAN MEADOWS 4TH & 5TH ADDITION (C.P. 25-02B)
AND
2025 FULL DEPTH RECLAMATION
FOX MEADOWS & INDIAN MEADOWS (C.P. 25-11B)
~~PINE HILLS ADDITION (C.P. 25-11C)~~

OAK GROVE

OAK GROVE

EAST BETHEL

RAMSEY

Rum River

Central Park

Ward Lake

25-02A PROJECT LOCATION

25-11C PROJECT LOCATION

25-11B PROJECT LOCATION

25-02B PROJECT LOCATION

Round Lake

Coon Creek

ANOKA

ANOKA

COON RAPIDS

COON RAPIDS

BLAINE

HAM LAKE

HAM LAKE

BUNKER HILLS

PARK RESERVE

CP 25-11C Does Not abut any County roads-those plan sheets omitted from this set



PLAN REVISIONS SUMMARY			
NO.	BY	DATE	REVISIONS

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

<u>SHEET</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	PROJECT LOCATIONS (ALL PROJECTS)
3-4	DETAILS (ALL PROJECTS)
25-02A	- XENIA/VINTAGE/161ST
5	PROJECT LAYOUT (25-02A)
6	SEQ (25-02A)
7	EARTHWORK SUMMARY (25-02A)
8	CONSTRUCTION NOTES (25-02A)
9	TYPICAL SECTIONS (25-02A)
10-22	PLAN / PROFILES (25-02A)
23-25	CULVERT REPLACEMENTS (25-02A)
26	STRIPING PLAN (25-02A)
27-35	CROSS SECTIONS (25-02A)
25-02B	- INDIAN MEADOWS 4TH & 5TH
ADDITION	
36	PROJECT LAYOUT (25-02B)
37	SEQ (25-02B)
38	EARTHWORK SUMMARY (25-02B)
39	CONSTRUCTION NOTES (25-02B)
40	TYPICAL SECTIONS (25-02B)
41-52	PLAN / PROFILES (25-02B)
53	CULVERT & CB REPLACEMENTS (25-02B)
54-61	CROSS SECTIONS (25-02B)
25-11B	- FOX MEADOWS & INDIAN
MEADOWS	
62	PROJECT LAYOUT (25-11B)
63	SEQ (25-11B)
64	EARTHWORK SUMMARY (25-11B)
65	CONSTRUCTION NOTES (25-11B)
66	TYPICAL SECTIONS (25-11B)
67-79	REMOVALS, STREET PAVING (25-11B)
80-84	CULVERT PLAN / PROFILES (25-11B)
25-11C	- PINE HILLS ADDITION
85	PROJECT LAYOUT (25-11C)
86	SEQ (25-11C)
87	EARTHWORK SUMMARY (25-11C)
88	CONSTRUCTION NOTES (25-11C)
89	TYPICAL SECTIONS (25-11C)
90-93	REMOVALS, STREET PAVING (25-11C)
94-95	CULVERT PLAN / PROFILES (25-11C)

THIS PLAN CONTAINS 95 SHEETS



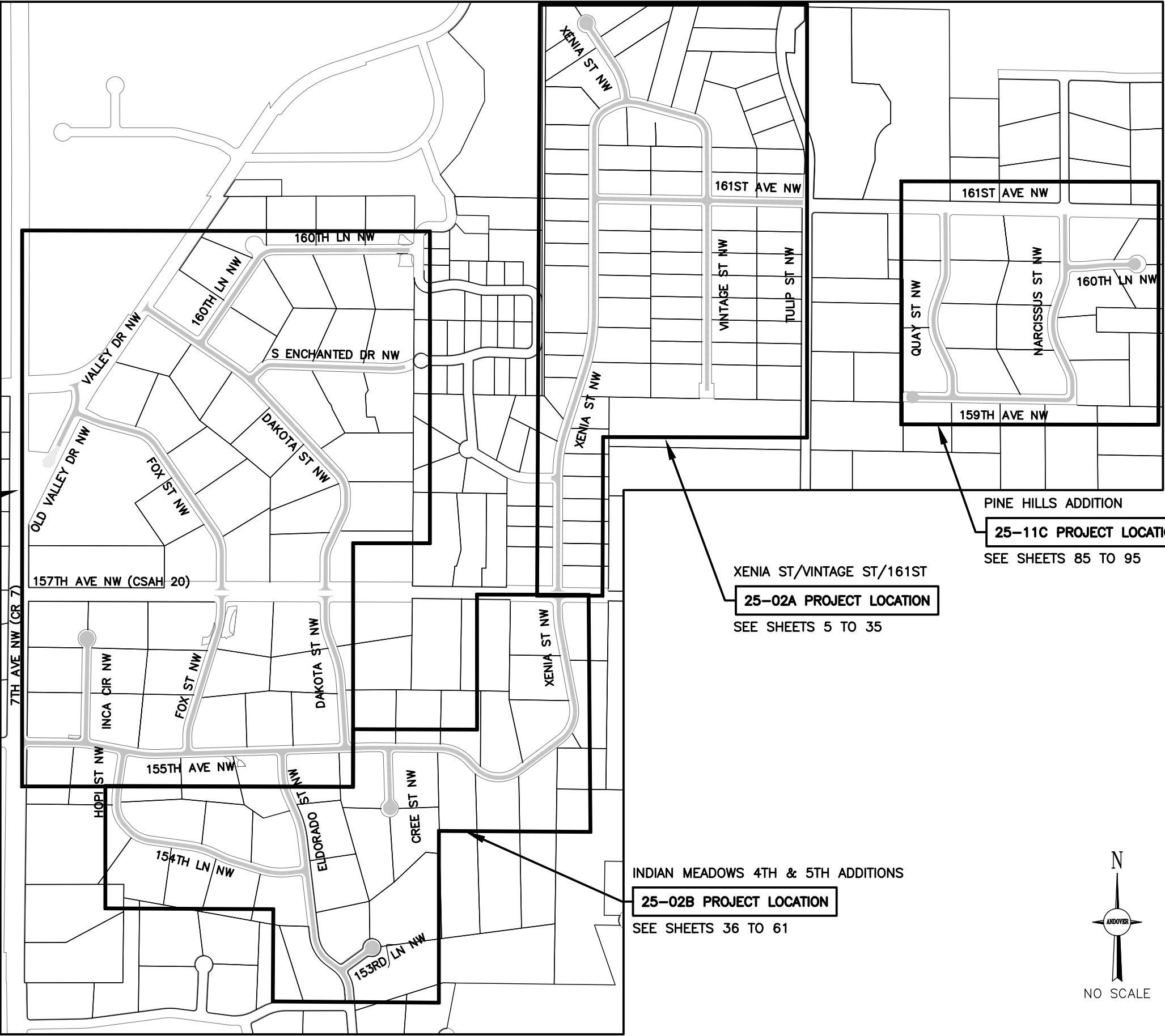
ANDOVER, MINNESOTA

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

David D. Berkowitz DAVID D. BERKOWITZ, PE
ANDOVER DIRECTOR OF PUBLIC WORKS CITY ENGINEER
DATE MARCH 4TH, 2025 LIC. NO. 26757

TITLE SHEET

SHEET NO. 1 OF 95 SHEETS



FOX MEADOWS & INDIAN MEADOWS
25-11B PROJECT LOCATION
SEE SHEETS 62 TO 84

XENIA ST/VINTAGE ST/161ST
25-02A PROJECT LOCATION
SEE SHEETS 5 TO 35

INDIAN MEADOWS 4TH & 5TH ADDITIONS
25-02B PROJECT LOCATION
SEE SHEETS 36 TO 61

PINE HILLS ADDITION
25-11C PROJECT LOCATION
SEE SHEETS 85 TO 95



2025 STREET RECONSTRUCTION
(C.P. 25-02A) & (C.P. 25-02B),
FULL DEPTH RECLAMATION
(C.P. 25-11B), & (C.P. 25-11C)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Bergowitz
DAVID D. BERGOWITZ
REG. NO. 26757
DATE MARCH 4TH, 2025

NO.	DATE	BY	DESCRIPTION OF REVISIONS
DESIGNED	JUL		
DRAWN			
CHECKED			
DDB			



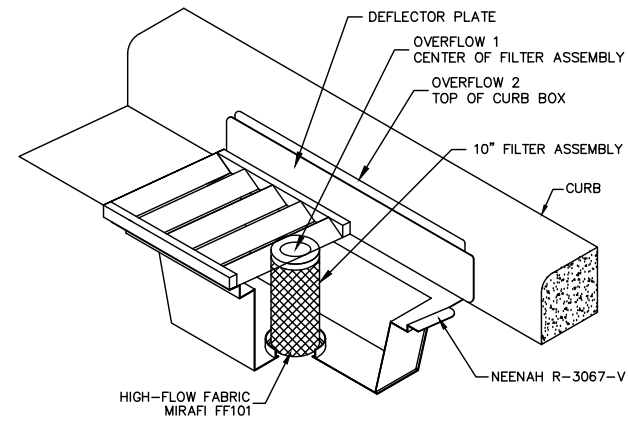
CITY OF ANDOVER

The image contains two technical drawings of a rock filter layer, labeled 'PLAN' and 'SECTION'.

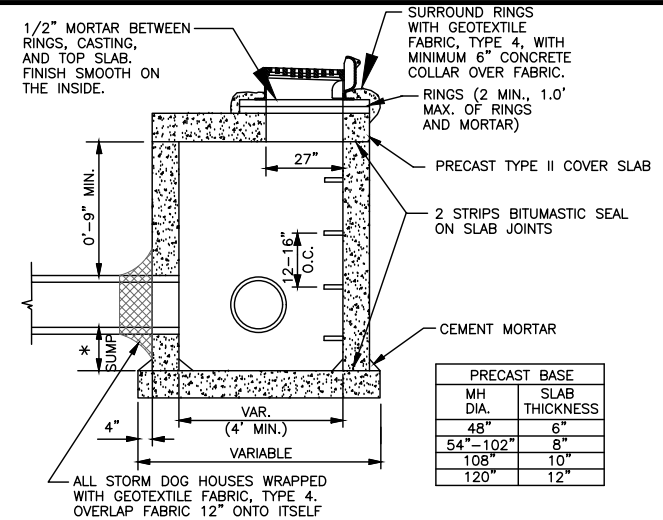
PLAN View: This is a top-down view of a rectangular filter layer. It is labeled '3/4" CRUSHED ROCK' at the top left and '1/2" HOLES 4" APART' at the bottom left. The filter layer is depicted as a rectangular area filled with a pattern of small circles, representing the crushed rock. A dashed rectangular outline is centered within the filter layer, and a diagonal line runs from the top right corner of the filter layer towards the center of this dashed rectangle.

SECTION View: This is a cross-sectional view of the filter layer. It is labeled 'SUBGRADE' on the left and '6" OF 3/4" CRUSHED ROCK OVER STEEL PLATE WITH 1/2" HOLES' on the right. The filter layer is shown as a trapezoidal shape with a stippled texture, resting on a solid horizontal line representing the subgrade. Below the filter layer is a cross-section of a concrete structure, which appears to be a wall or foundation, with a small rectangular opening or channel at its base.

CITY OF ANDOVER



WIMCO INLET PROTECTION
N.T.S.



MANHOLE STEPS SHALL BE CAST IRON, ALUMINUM, OR STEEL REINFORCED PLASTIC PER ASTM C478. LOCATION SHALL BE EASILY ACCESSIBLE.

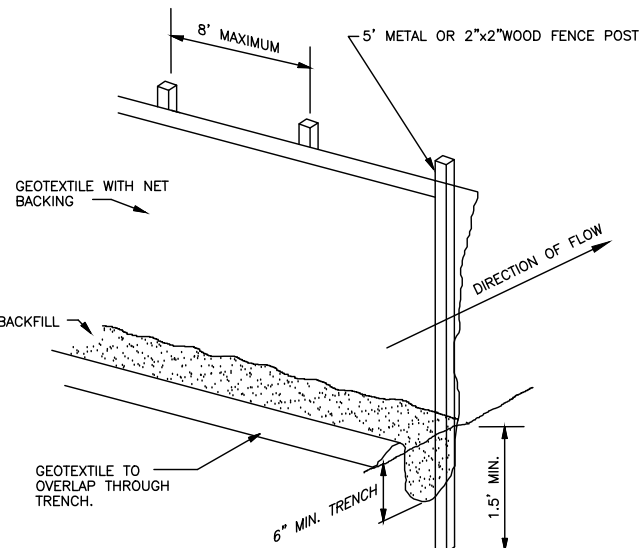
PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS & LUBRICANT.

FILL OPENING BETWEEN PIPE AND MANHOLE WALL WITH CEMENT MORTAR.
INSIDE SURFACE SHALL BE FINISHED SMOOTH. WRAP OUTSIDE OF DOGHOUSE WITH
GEOTEXTILE FABRIC, TYPE 4, OVERLAP FABRIC 12" ONTO ITSELF.

ALL MORTAR SHALL CONFORM TO ASTM C270 AND MEET THE REQUIREMENTS OF MNDOT 2506.2B.

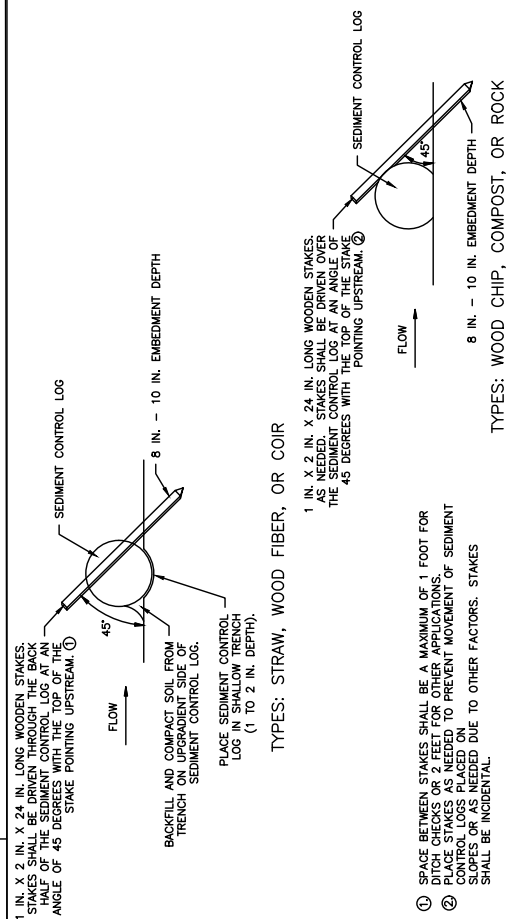
* REFER TO PLANS FOR SUMP DEPTH, IF ANY.

CITY OF ANDOVER



SILT FENCE

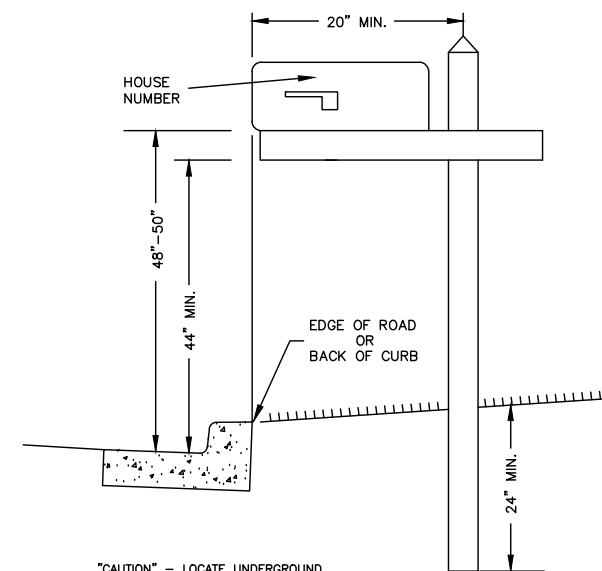
CITY OF ANDOVER



SEDIMENT CONTROL LOGS



CITY OF
ANDOVER



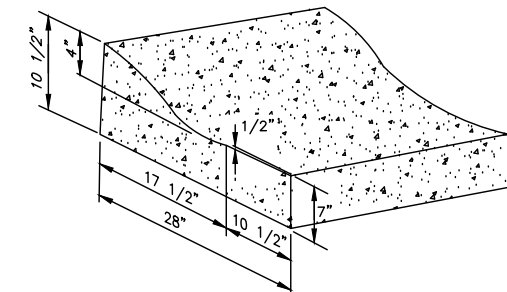
"CAUTION" - LOCATE UNDERGROUND UTILITIES; GAS, TELEPHONE, ELECTRICAL, CABLE TV

HAVE BOX EXTEND AS FAR IN FRONT OF SUPPORT POST AS POSSIBLE
(THIS PREVENTS POSSIBLE SNOW PLOW DAMAGE).

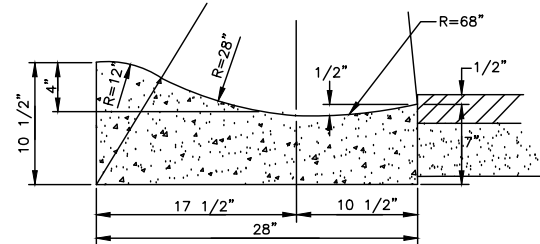
ADDRESS MUST BE ON SIDE OF BOX FROM WHICH CARRIER APPROACHES, IN LETTERS ABOUT ONE INCH HIGH OR ON FRONT WHERE BOXES ARE GROUPED.

BOX MUST BE LOCATED SO CARRIER CAN SERVE WITHOUT LEAVING VEHICLE.

FACE OF MAIL BOX TO LINE UP WITH BACK OF CURB.



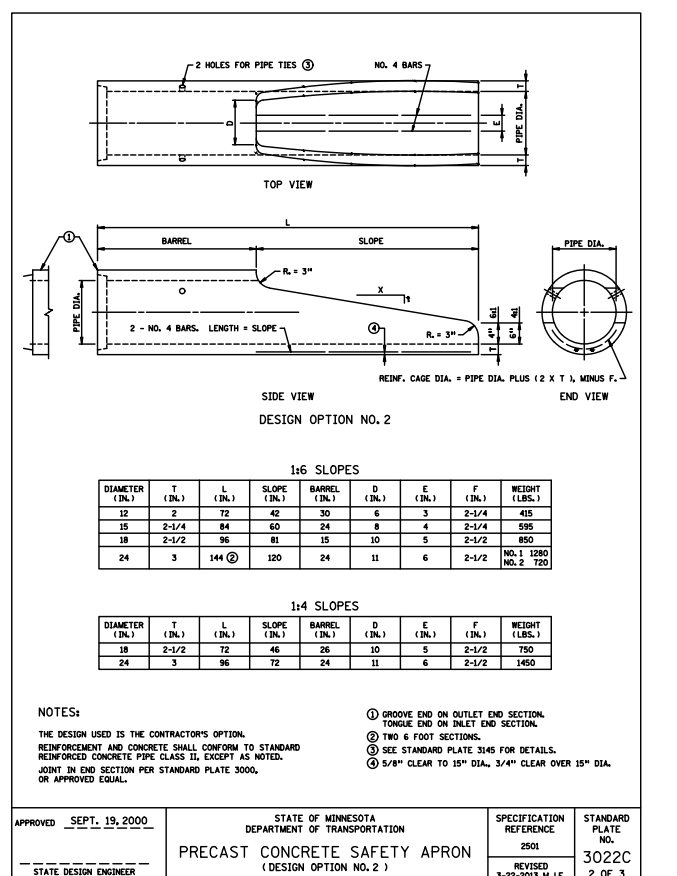
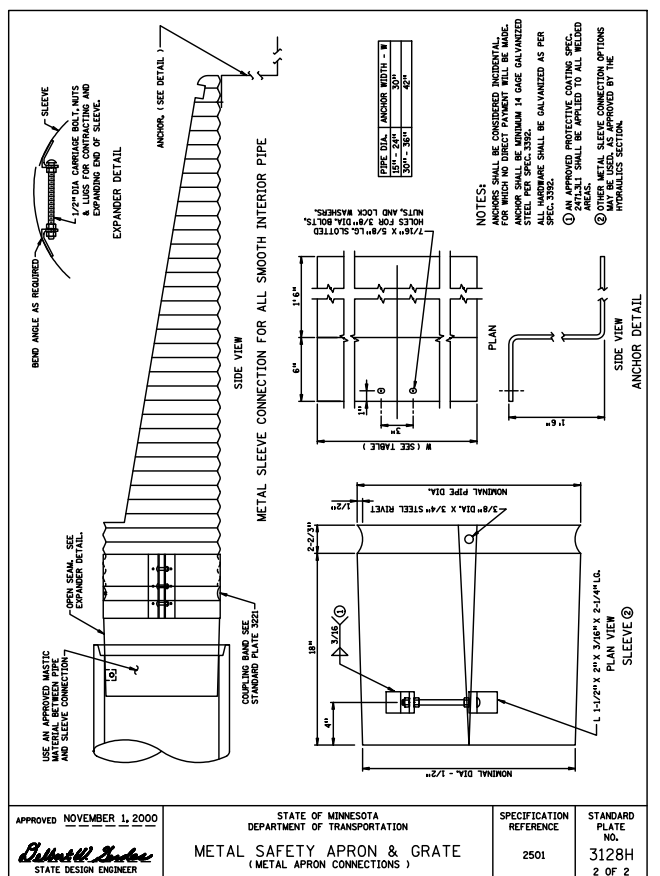
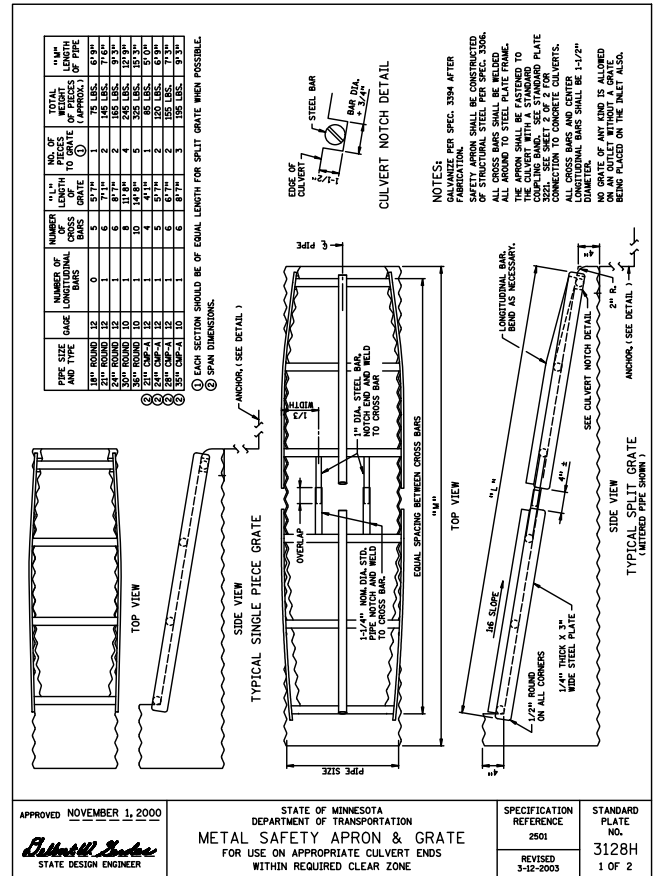
PERSPECTIVE

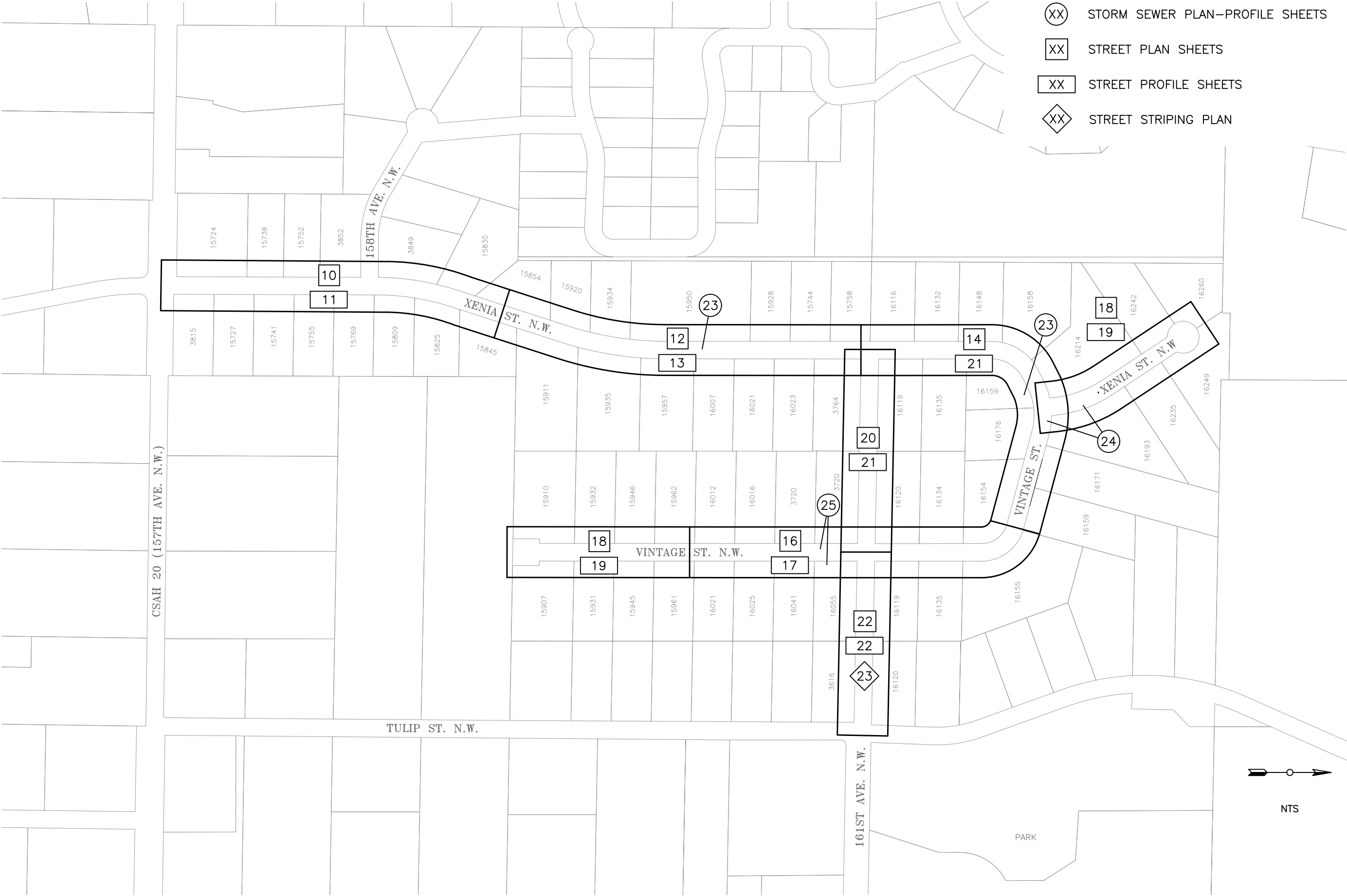


SECTION

SURMOUNTABLE CONCRETE CURB & GUTTER

CITY OF ANDOVER

[illegible]



- ⓧ STORM SEWER PLAN—PROFILE SHEETS
- ⓧ STREET PLAN SHEETS
- ⓧ STREET PROFILE SHEETS
- ⓧ STREET STRIPING PLAN

2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A

CITY OF
ANDOVER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David D. Berkowitz
DAVID D. BERKOWITZ
DATE MARCH 4, 2025 REG. NO. 26757

DESIGNED	DRAWN	CHECKED	NO.	DATE	BY	DESCRIPTION OF REVISIONS
JUL	AAK	DDB				

C.P. 25-02A Notes:

1. Regardless of depth.
2. Includes salvage and reinstall of existing mailbox, and temporary placement of mailbox in barrel at each existing location during construction.
3. For all excavation except subgrade excavation. Includes disposing excess or unsuitable material off-site. Utilize clean material for curb backfill.
4. For exc. beneath reclaimed agg. base where profile grade lowered or where unsuitable material discovered. Dispose unsuitable or excess material off-site.
5. For excavating/stockpiling/hauling reclaim material salvaged for subgrade exc. and areas with excess reclaim material. Dispose of excess off-site.
6. Only to be used if sufficient material not generated on-site for subgrade excavation backfill, if necessary.
7. Grade reclaim material from areas of excess to areas requiring material and/or under curb, fine grading, shape crown, and compacting reclaimed aggregate base.
8. For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
9. For material imported from outside project limits. Class 7 reclaim acceptable. Item includes furnishing, hauling, placing and compacting.
10. Includes loading/hauling/placing/grading/compacting salvaged reclaim material in areas of subgrade excavation.
11. For driveway aprons.
12. Rock shall be 1.5" nominal diameter. Use under utility pipe and structures if water table is high.
13. Based upon number or irrigation heads removed / replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged lines, heads, adjust systems, and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
14. Straw or wood fiber blanket is an acceptable alternative. Netting material shall be jute netting.
15. Only to be used if requested by engineer prior to or during site restoration.

STATEMENT OF ESTIMATED QUANTITIES

2025 STREET RECONSTRUCTION (C.P. 25-02A) Xenla St / Vintage St / 161st Ave					QUANTITIES	
NOTES	ITEM NO.		DESCRIPTION	UNIT	EST. QUAN.	ACT. QUAN.
	1	2021.501	Mobilization	LS	1.00	
	2	2101.502	Grubbing	EA	35	
	3	2104.502	Salvage Concrete Apron	EA	1	
1	4	2104.503	Sawing Concrete Pavement (Full Depth)	LF	420	
1	5	2104.503	Sawing Bit Pavement (Full Depth)	LF	6,190	
	6	2104.503	Remove Pipe Culvert / Storm Sewer	LF	180	
1	7	2104.518	Remove Concrete Pavement	SF	4,210	
1	8	2104.518	Remove Bituminous Pavement	SF	12,000	
2	9	2104.602	Salvage and Reinstall Mailbox	EA	68	
3	10	2105.607	Common Excavation (EV)	CY	1,240	
4	11	2105.607	Subgrade Excavation (EV)	CY	950	
5	12	2105.607	Salvage Reclaim Material (LV)	CY	2,350	
6	13	2105.607	Select Granular Borrow (LV)	CY	710	
7	14	2112.519	Subgrade Preparation	RDST	77.9	
8	15	2130.523	Water	MGAL	50	
9	16	2211.509	Aggregate Base Class 5	TN	90	
10	17	2211.607	Place Salvaged Reclaim Material (CV)	CY	440	
	18	2215.504	Full Depth Reclamation	SY	23,410	
	19	2232.504	Mill Bituminous Surface (1.5")	SY	20	
	20	2357.506	Bituminous Material For Tack Coat	Gal	1,110	
	21	2360.509	Type SP 9.5 Wearing Course Mix (2,C)	TN	2,190	
11	22	2360.509	Type SP 9.5 Bit Mixture for Patching (2,B)	TN	160	
	23	2360.509	Type SP 12.5 Wearing Course Mixture (2,C)	TN	2,280	
12	24	2451.607	Trench Stabilization Material (CV)	CY	20	
	25	2501.502	Install Concrete Apron	EA	1	
	26	2501.502	12" CS Pipe Apron & Grate	EA	2	
	27	2501.502	15" CS Pipe Apron & Grate	EA	6	
	28	2501.502	18" CS Pipe Apron & Grate	EA	2	
	29	2501.503	12" CS Pipe Culvert	LF	26	
	30	2501.503	12" Ductile Iron Pipe Culvert Class 52	LF	33	
	31	2501.503	14" Ductile Iron Pipe Culvert Class 52	LF	61	
	32	2501.503	18" Ductile Iron Pipe Culvert Class 52	LF	50	
	33	2503.503	15" RC Pipe Sewer Des 3006 Class V	LF	8	
	34	2503.602	Connect to Existing Culvert	EA	1	
13	35	2504.602	Irrigation System Modifications	EA	35	
	36	2511.507	Random Riprap Class III	CY	30	
	37	2531.503	Concrete Curb and Gutter Surmountable	LF	1,870	
	38	2531.504	6" Concrete Driveway Pavement	SY	470	
	39	2531.604	Concrete Drainage Flume	SY	40	
	40	2563.601	Traffic Control	LS	1.00	
	41	2573.502	Storm Drain Inlet Protection	EA	6	
	42	2573.503	Sediment Control Log Type Wood Chip	LF	550	
	43	2573.607	Rock Ditch Check - 1.5" Nom. Diameter	CY	30	
	44	2574.507	Loam Topsoil Borrow (LV)	CY	1,070	
	45	2574.508	Fertilizer Type 1	LB	460	
	46	2575.504	Sodding Type Lawn	SY	8,650	
14	47	2575.504	Rolled Erosion Prevention Category 20	SY	2,500	
15	48	2575.505	Weed Spraying	ACRE	0.50	
	49	2575.505	Seeding	ACRE	0.50	
	50	2575.508	Seed Mixture 25-151	LB	100	
	51	2582.503	4" Solid Line Paint	LF	390	
	52	2582.503	18" Solid Line Paint	LF	24	
	53	2582.503	4" Double Solid Line Paint	LF	990	
	54	2582.518	Pavement Message Paint	SF	210	

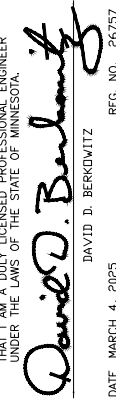
DESIGNED
JUL

DRAWN
AAK

CHECKED

DOB

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.



DAVID D. BERKOWITZ

REG. NO. 267571

DATE: MARCH 4, 2025



CITY OF ANDOVER

2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A

EARTH WORK TABLE

City Project 25-02A		
Aggregate Base Class 7 (Reclaim) Existing 3"+/- of bituminous and 4"+/- aggregate base Reclaim 6.5"+/- deep Salvaged Reclaim (Salvage Reclaim Pay Item) Volume of salvaged reclaim material =1,138 CY (CV) Volume in subgrade lowering areas =329 CY (CV) Volume in subgrade correction areas =55 CY (CV) Volume in Vintage St turnaround =42 CY (CV) Total Salvaged Reclaim =1,564 CY (CV) 2,350 CY (LV) Salvaged Reclaim Required (Place Salvaged Reclaim Pay Item) Volume in subgrade lowering areas =299 CY (CV) Volume in subgrade correction areas =50 CY (CV) Volume for Vintage St Cul De Sac =90 CY (CV) Total Place Salvage Reclaim =440 CY (CV) Salvaged Reclaim Required (part of Subgrade Prep Pay item) Volume required at crown for 3% cross-slope =264 CY (CV) Volume under and behind curb =38 CY (CV) Total =310 CY (CV) Subgrade Excavation (Subgrade Exc. Pay Item) Volume of subgrade exc. material for profile lowering =202 CY (EV) Volume of subgrade exc. material - correction areas =747 CY (EV) Total Subgrade Excavation =950 CY (EV) Common Excavation (Common Exc. Pay Item) Volume of Common Exc. For Curb260 CY (EV) Volume of Common Exc. For Vintage Cul De Sac =581 CY (EV) Volume of Common Exc. Blvd for Sod =340 CY (EV) Volume of Common Exc. For culvert daylights =50 CY (EV) Total Common Excavation =1,240 CY (EV) Topsoil Borrow 760 CY (CV) Roadway Length =7,782 LF Existing Roadway Area =23,409 SY		

EARTHWORK SUMMARY		
Reclaimed Aggregate Base Balance Volume of salvaged reclaim material available =2,350 CY (LV) Volume of required reclaim material =1,125 CY (LV) Balance of reclaim material =1,225 CY (LV) Common Excavation 1,240 CY (EV) Subgrade Excavation 950 CY (EV) Topsoil Borrow 760 CY (CV) 1,070 CY (LV) Select Granular Borrow 545 CY (EV) 710 CY (LV) Excess Excavation Material to Dispose of Off-Site 1,643 CY (EV) 2,140 CY (LV) 1.5 expansion factor assumed from CV to LV. Haul out and dispose of excess. Excess property of contractor Dispose of unsuitable and excess material off-site. Suitable material can be used as curb backfill where necessary. Dispose of unsuitable and excess material off-site. Suitable material can be used as curb backfill where necessary. For backfill of subgrade correction. Only used if sufficient material not available on-site. Use subgrade exc (lowering) material as backfill. Estimated: 75% of Common excavation material plus 75% of subgrade excavation material		

Swell Factors
EV to LV = 1.3
LV to CV = 1.4
1 CY Class 5 = 2 tons (147 #/CF)

DESIGNED
JUL

DRAWN
AAK

CHECKED

DOB

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David D. Berkowitz

DAVID D. BERKOWITZ

REG. NO. 26757

DATE MARCH 4, 2025

CITY OF ANDOVER

2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A

GENERAL NOTES:

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
CITY OF ANDOVER 2025 UTILITY AND STREET CONSTRUCTION SPECIFICATIONS SHALL APPLY.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD)" AND THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL", NEWEST ADDITIONS.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR IS REQUIRED TO CALL GOPHER ONE CALL AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. (651-454-2000)

CONSTRUCTION NOTES:

ROAD WORK AHEAD SIGNS SHALL BE MAINTAINED AT ALL INTERSECTING ROADS TO THE PROJECT. TYPE B CHANNELIZERS SHALL BE USED IN ALL NECESSARY LOCATIONS. TRAIL CLOSED SIGNS ON TYPE III BARRICADES SHALL BE PLACED AT ALL LOCATIONS IMPACTED BY PEDESTRIAN RAMP/SIDEWALK/TRAIL IMPROVEMENTS.

CONSTRUCTION SHALL BE STAGED SUCH THAT TRAFFIC IS MAINTAINED AT ALL TIMES. CONTRACTOR SHALL USE FLAG PERSON, IF NEEDED (INCIDENTAL TO TRAFFIC CONTROL).

COMPACTION OF ALL BITUMINOUS MIXTURE SHALL BE BY THE "SPECIFIED DENSITY METHOD" EXCEPT FOR PATCHES AND TRAILS, WHICH SHALL BE BY THE "ORDINARY COMPACTION METHOD".

THE CONTRACTOR SHALL USE FLAG PERSON'S AND APPROPRIATE TRAFFIC CONTROL DEVICES TO DIRECT TRAFFIC AT INTERSECTING COUNTY ROADS. ALL TRAFFIC CONTROL MUST BE ACCEPTABLE TO THE ANOKA COUNTY HIGHWAY DEPARTMENT. CONTRACTOR SHALL APPLY FOR A PERMIT FOR WORKING WITHIN ANOKA COUNTY RIGHT OF WAY. PROVIDE A COPY OF COUNTY PERMIT TO CITY INSPECTOR.

ABSENT A ROAD SCLOSURE, RECONSTRUCTION SHALL BE PERFORMED IN A MANNER TO ALLOW LOCAL TRAFFIC TO BE MAINTAINED TO A MINIMUM OF HALF THE ROADWAY WIDTH. THE CONTRACTOR SHALL USE FLAG PERSON'S TO DIRECT TRAFFIC AS NEEDED.

CONTRACTOR SHALL PROVIDE 3 DAY NOTICE PRIOR TO POTENTIAL ROAD CLOSURE FOR UNDERGROUND UTILITY CONSTRUCTION. TYPE 3 BARRICADES WITH "ROAD CLOSED" SHALL BE INSTALLED ON BOTH SIDES OF UTILITY CONSTRUCTION ACTIVITY. STAGE CONSTRUCTION TO ALLOW FOR LOCAL RESIDENT ACCESS AS NEEDED.

DURING ALL ASPECTS OF CONSTRUCTION DRIVEWAYS SHALL BE RAMPED WITH GRAVEL IN A TIMELY MANNER TO PROVIDE RESIDENTS ACCESS. UPON THREE DAYS OF CURE, CONC. CURBING AT DRIVEWAYS SHALL BE BACKFILLED & RAMPED WITH GRAVEL TO PROVIDE ACCESS.

DURING THE CONSTRUCTION OF CONC. CURB & DRIVEWAYS, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER TO NOTIFY RESIDENTS OF PENDING CONSTRUCTION ACTIVITY. A THREE DAY NOTICE IS REQUIRED PRIOR TO POURING CONC. CURB & DRIVEWAYS. IMMEDIATELY UPON COMPLETION THE ROADWAY SHALL BE GRADED TO ALLOW RESIDENTS TO PARK ON STREET ADJACENT TO THEIR PROPERTY.

CONCRETE CURBING SHALL BE KNOCKED DOWN AT ALL DRIVEWAY ENTRANCES (INCIDENTAL). CONSTRUCT B618 C&G ON ALL RADII, CATCH BASIN LOCATIONS & ADDITIONAL LOCATIONS AS NOTED ON PLAN. (PAID AS SURMOUNTABLE C&G).

EXISTING MAILBOXES SHALL BE SALVAGED AND REINSTALLED. DURING CONSTRUCTION TEMPORARY MAILBOXES SHALL BE PLACED NEAR THE ORIGINAL MAILBOX LOCATION. THE TEMPORARY MAILBOXES SHALL BE MOUNTED ON BARRELS TO BE PORTABLE. PROPERTY OWNER MAY SUPPLY NEW POST AND/OR BOX TO BE PLACED IN THE ORIGINAL LOCATION.

RESIDENTS WILL BE ASKED TO MARK SPRINKLER HEADS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SYSTEMS. WHERE BOULEVARD IRRIGATION MODIFICATIONS ARE REQUIRED THE IRRIGATION LINES/HEADS SHALL BE REMOVED & DISPOSED. REMAINING LINES SHALL BE PLUGGED & MARKED. ALL REPLACED IRRIGATION LINES/HEADS SHALL BE WITH NEW COMMERCIAL GRADE MATERIALS. CONTRACTOR WILL BE PAID A UNIT PER HEAD REPLACED. EXISTING LOCATIONS SHOWN ON PLANS ARE ONLY SCHEMATIC. ALL WORK SHALL BE BY AN IRRIGATION CONTRACTOR LICENSED TO WORK IN THE CITY OF ANDOVER.

THE CONTRACTOR SHALL PROTECT, SALVAGE AND REPAIR ALL EXISTING LANDSCAPING IN KIND. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE FOLLOWING CONSTRUCTION ITEM'S SHALL OCCUR PRIOR TO COMMENCING THE RECLAIMING OPERATION. INSTALL TRAFFIC CONTROL, REMOVE STREET SIGN'S (CITY), INSTALL TEMP. EROSION CONTROL MEASURES, IDENTIFY & CAP IRRIGATION SYSTEMS, SALVAGE LANDSCAPING, REMOVE EX. & INSTALL TEMP. MAILBOX'S, EXCAVATE BOULEVARD MATERIAL PER TYPICAL SECTION.

EXISTING DRIVEWAYS SHALL BE SAWCUT AS DIRECTED BY ENGINEER, REMOVED AND DISPOSED OF OFF SITE . BITUMINOUS AND CONCRETE DRIVEWAYS SHALL BE REPLACED IN KIND. GRAVEL DRIVEWAYS SHALL BE REPLACED WITH A 10-15' BITUMINOUS APRON. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY SHALL BE SAWCUT AND REPAIRED IN KIND AT THE CONTRACTORS EXPENSE.

WHERE SUBGRADE EXCAVATION UTILITY WORK OCCURS WITHIN THE ROADWAY THE RECLAIMED BASE SHALL BE SALVAGED & REPLACED PER THE TYPICAL SECTION (INCIDENTAL). THIS WORKSHALL BE DONE IN A MANNER SO RECLAIMED BASE IS NOT CONTAMINATED WITH SPOIL MATERIAL. COMPACTION OF THE RECLAIMED BASE MATERIAL SHALL BE ACHIEVED BY THE PENETRATION INDEX METHOD IN ACCORDANCE WITH MNDOT 2211.3C3. THE BOTTOM OF THE SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD"

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS TO BACKFILL PROPOSED CURB & GUTTERS. ANY EXCESS MATERIAL, OR MATERIAL WITH DEBRIS / SOD CHUCKS SHALL BE DISPOSED OF OFF-SITE.

ALL DISTURBED AREAS SHALL BE BACKFILLED WITH SALVAGED TOPSOIL, IF ANY. DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, & SOD. DISTURBED AREAS ADJACENT TO FLARED END SECTIONS, AREAS OF CHANNELIZED RUN OFF, AND UNMAINTAINED AREA'S SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, & EROSION CONTROL BLANKET CATEGORY 30. ALL RESTORATION SHALL OCCUR WITHIN 7 DAYS OF GRADING COMPLETION. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY (INCIDENTAL). RESTORATION WORK SHALL BE COMPLETED ADJACENT TO THE ROADWAY AFTER PAVING WEARING COURSE.

ALL EXISTING SIGNS SHALL BE REMOVED AND REPLACED BY THE ANDOVER SIGN DEPARTMENT UNLESS CALLED OUT OTHERWISE IN THE PLANS. COORDINATE WITH MINIMUM 48 HOUR NOTICE WITH ENGINEER IN FIELD.

CONCRETE WASHOUT SHALL BE CONTAINED WITHIN CONCRETE TRUCKS, NOT DISPOSED OF ON-SITE.

CONTRACTOR SHALL SWEEP ALL MATERIAL OFF ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY, DAILY AS NECESSARY (INCIDENTAL).

CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES (INCIDENTAL).

CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE VEGETATION IS RE-ESTABLISHED (INCIDENTAL).

REFER TO SWPPP IN PROJECT SPECIFICATION FOR ADDITIONAL CONSTRUCTION/EROSION CONTROL REQUIREMENTS.

THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL MATERIAL, IF ANY, FOR RE-USE (LITTLE IS EXPECTED). RE-USED TOPSOIL SHALL BE CLEAN WITH NO SOD CHUNKS / EXISTING VEGETATION. TOPSOIL STRIPING, IF ANY, SHALL BE CONSIDERED INCIDENTAL.

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS. MATERIAL FOR BACKFILL SHALL BE FREE OF DEBRIS. EXCESS MATERIAL GENERATED, IF ANY, SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.

WHEN CONNECTING NEW PAVED SURFACING TO ANY IN-PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE PAVEMENTS OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN AT 2(V):1(H) SLOPE TO THE TOP OF THE SUBGRADE.

EXCAVATION AND DISPOSAL OF SOIL/TURF MATERIAL SHALL BE INCIDENTAL TO REMOVAL PAY ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MINIMIZE EXCAVATION AND DISTURBANCE ALONG THE PROJECT CORRIDOR.

DESCRIPTION OF REVISIONS		BY	DATE	NO.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Berkowitz

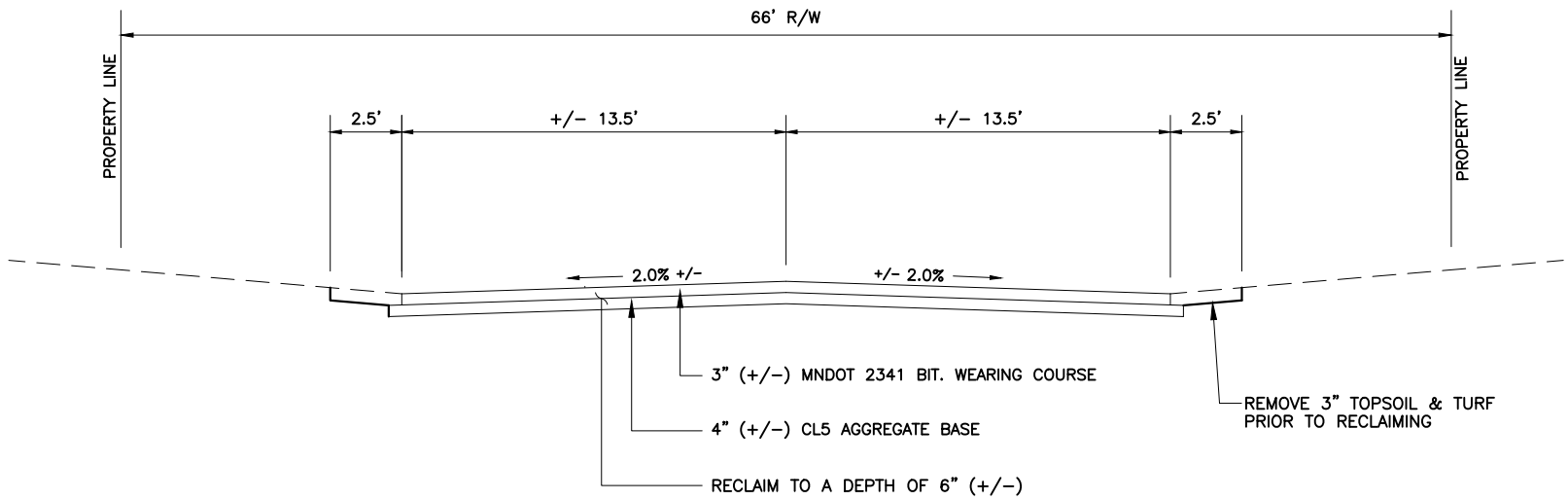
DAVID D. BERKOWITZ

DATE: MARCH 4, 2025

REG. NO. 26737

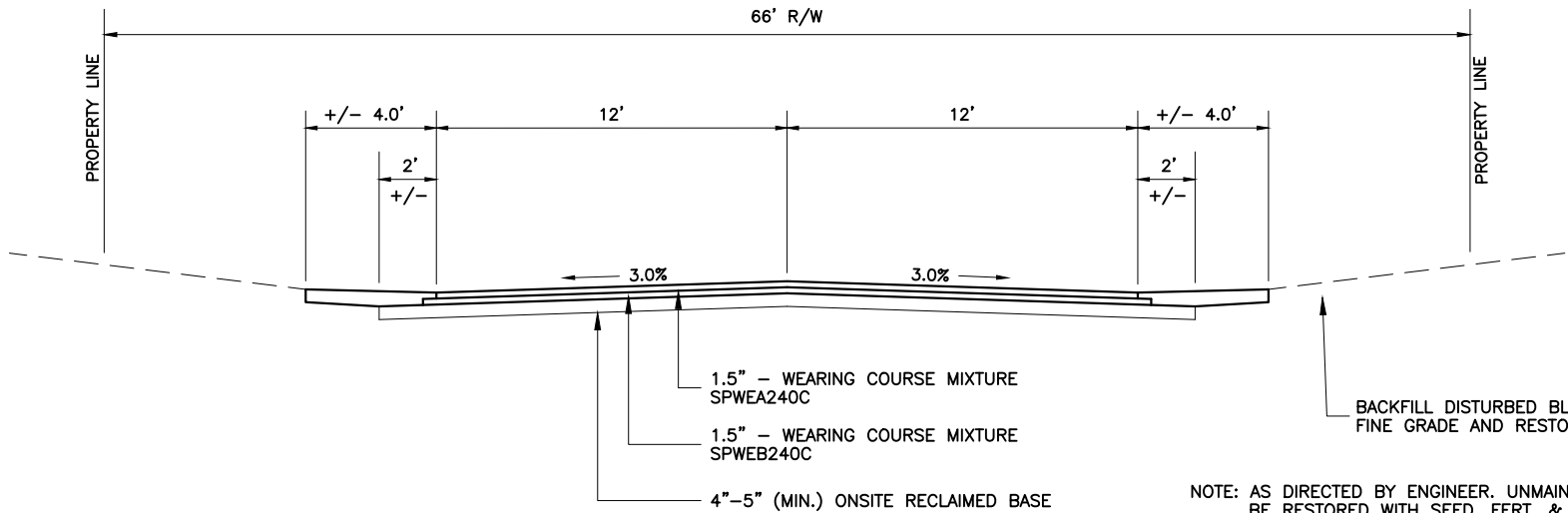


2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A



EXISTING TYPICAL SECTION
XENIA ST. – VINTAGE ST. – 161ST. AVE.

NOTE: PROJECTS 25-02A & 25-02B SHALL BE STAGED SO EXCESS RECLAIM FROM 25-02A CAN BE HAULED, PLACED AND USED FOR CURB GRADE ON 25-02B.



PROPOSED TYPICAL SECTION
XENIA ST. – VINTAGE ST. – 161ST. AVE.

NOTE: AS DIRECTED BY ENGINEER. UNMAINTAINED AREAS SHALL BE RESTORED WITH SEED, FERT. & EROSION BLANKET

NOTE: GENERALLY DRAINAGE ON THE SITE FLOWS ALONG THE EDGE OF THE ROADWAY. DURING BASE LIFT PAVING, FLAT PROFILE SEGMENTS OF ROADWAY SHALL BE PAVED WITH ELECTRONICS TRACKING ON STRINGLINE. PROFILE SEGMENTS THAT REQUIRE STRINGLINE ARE IDENTIFIED ON THE PROFILE SHEETS AND IS INCIDENTAL TO PAVING.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David D. Berkowitz
DAVID D. BERKOWITZ
DATE: MARCH 4, 2025
REG. NO. 26757

DESIGNED
JUL
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AAK
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DOB

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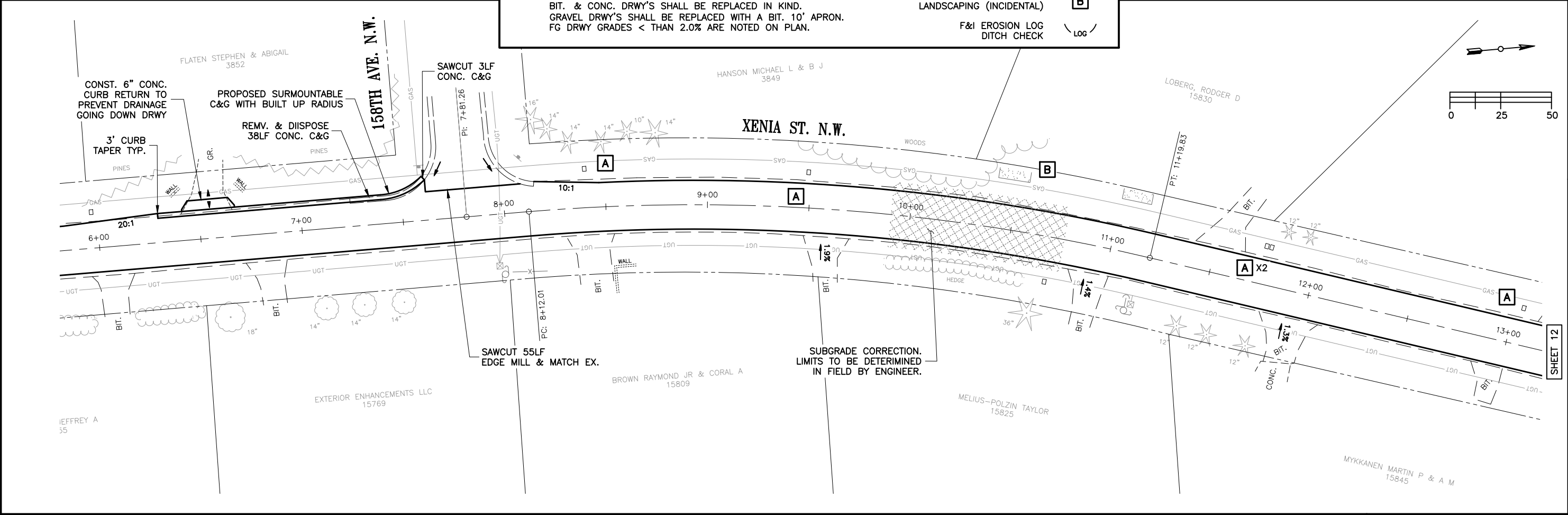
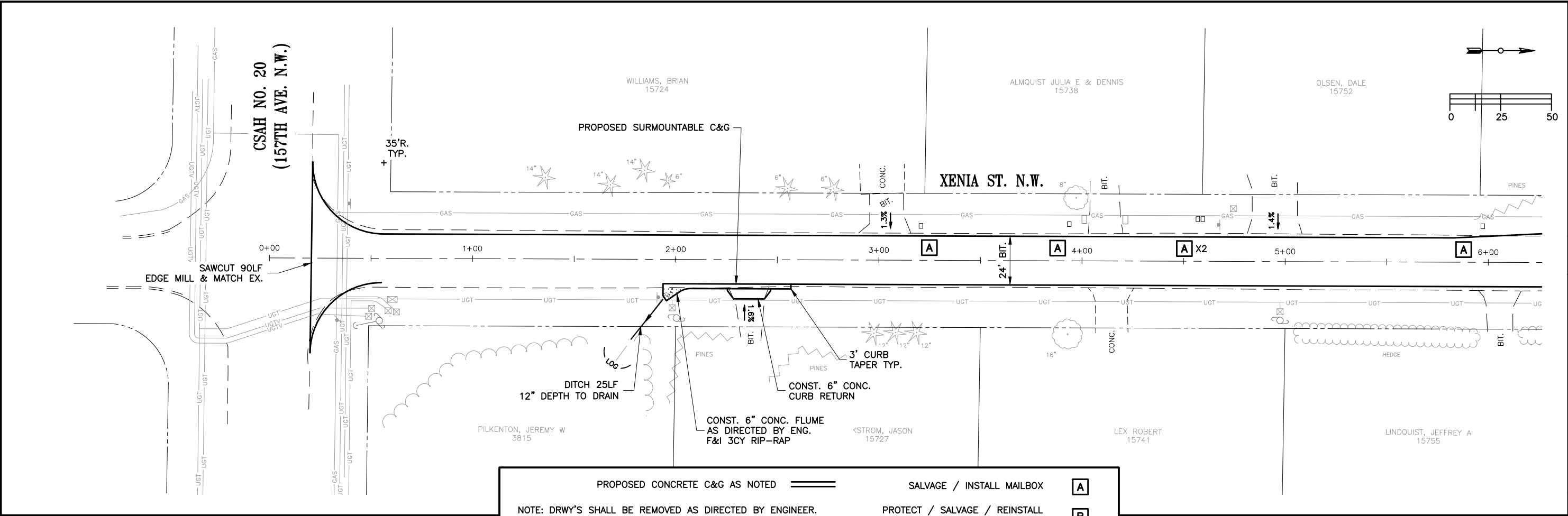
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BY

DESCRIPTION OF REVISIONS

CITY OF
ANDOVER

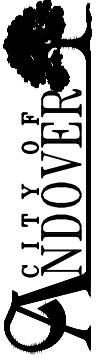
2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A



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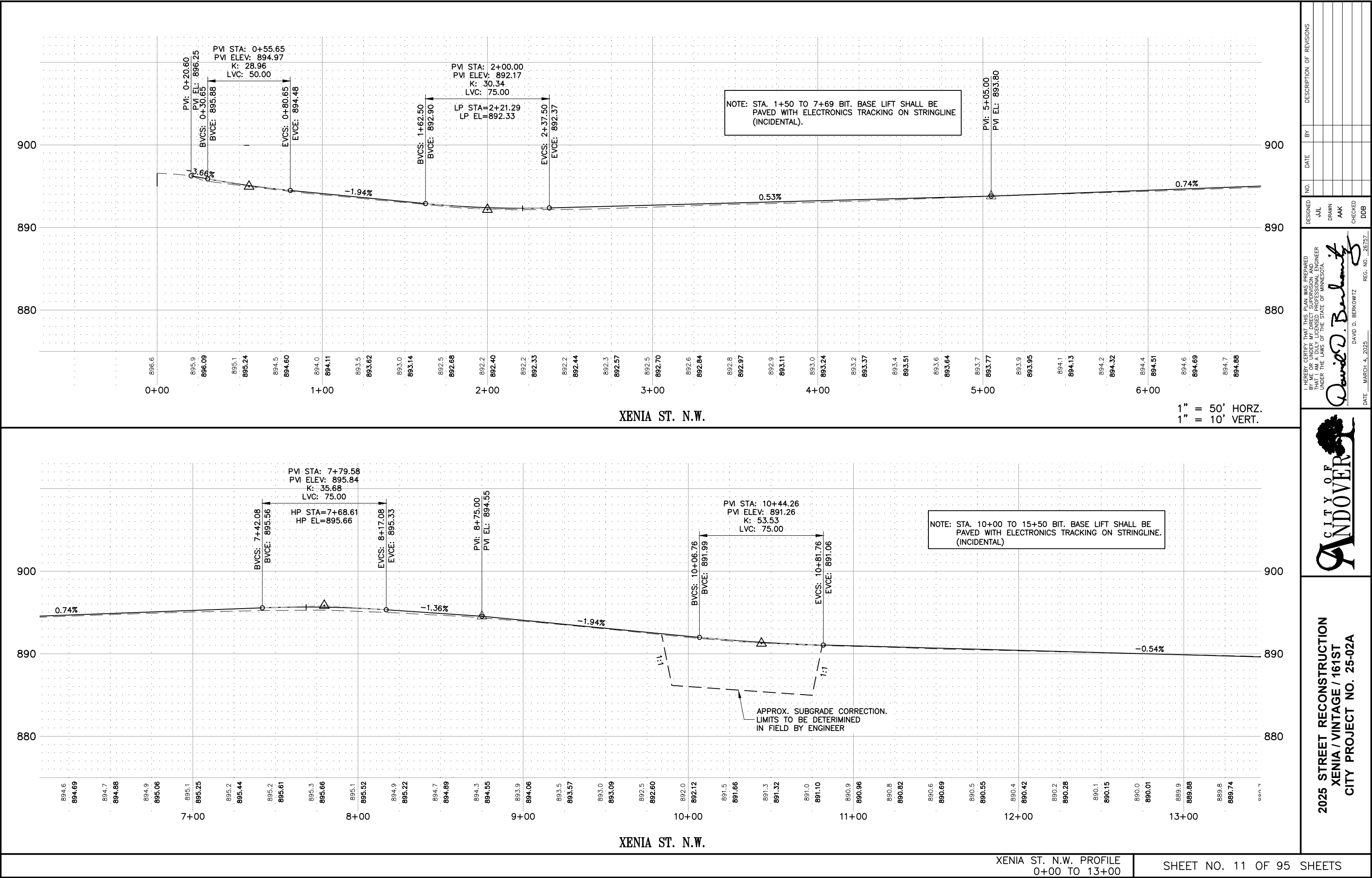
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CITY OF
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2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A

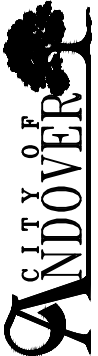


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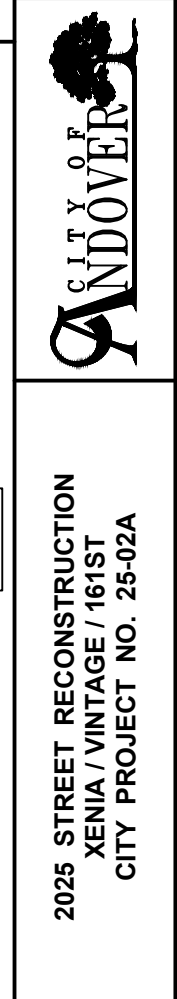
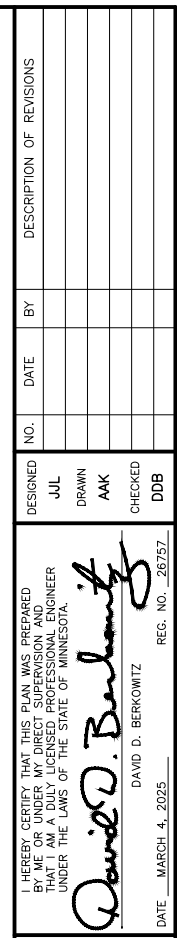
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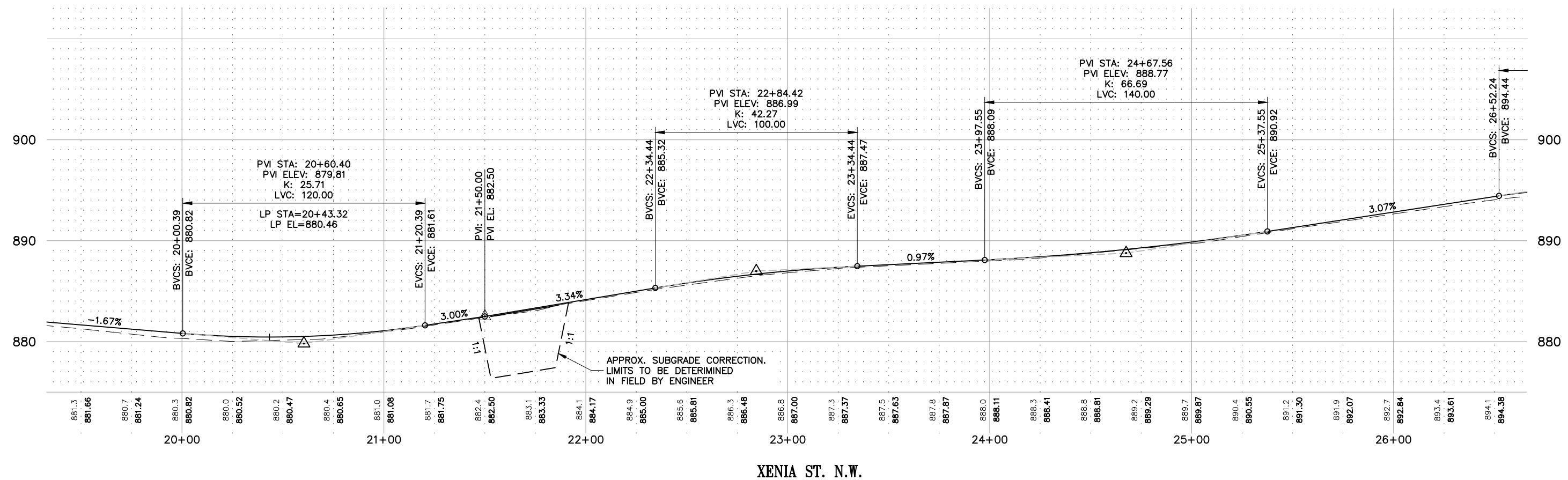
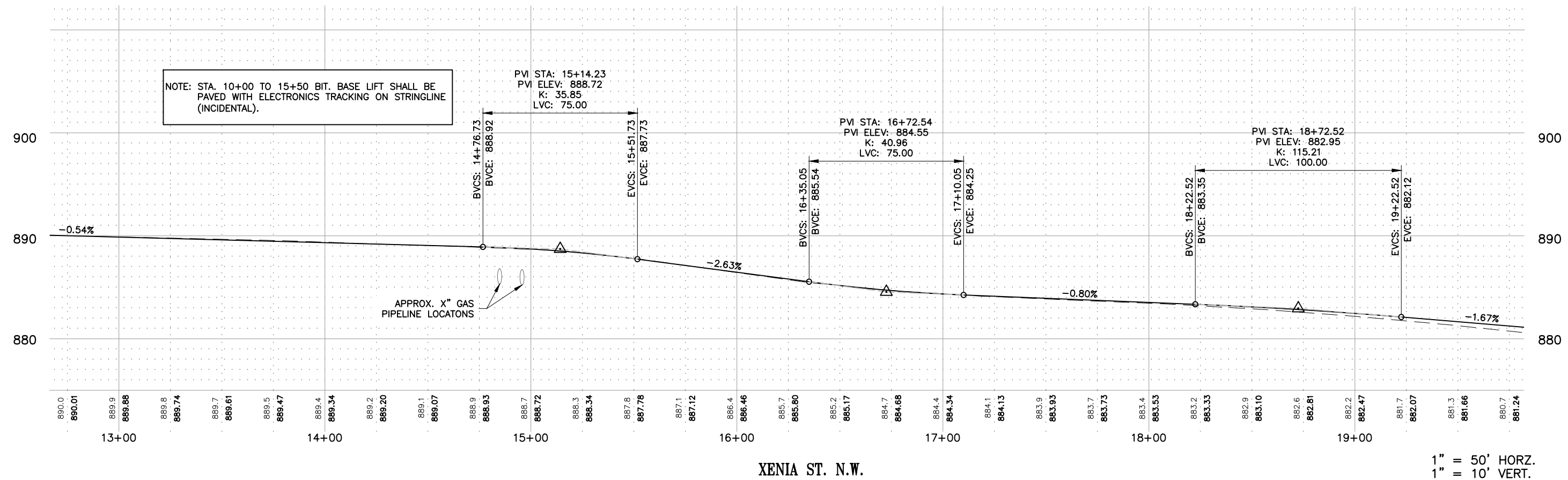
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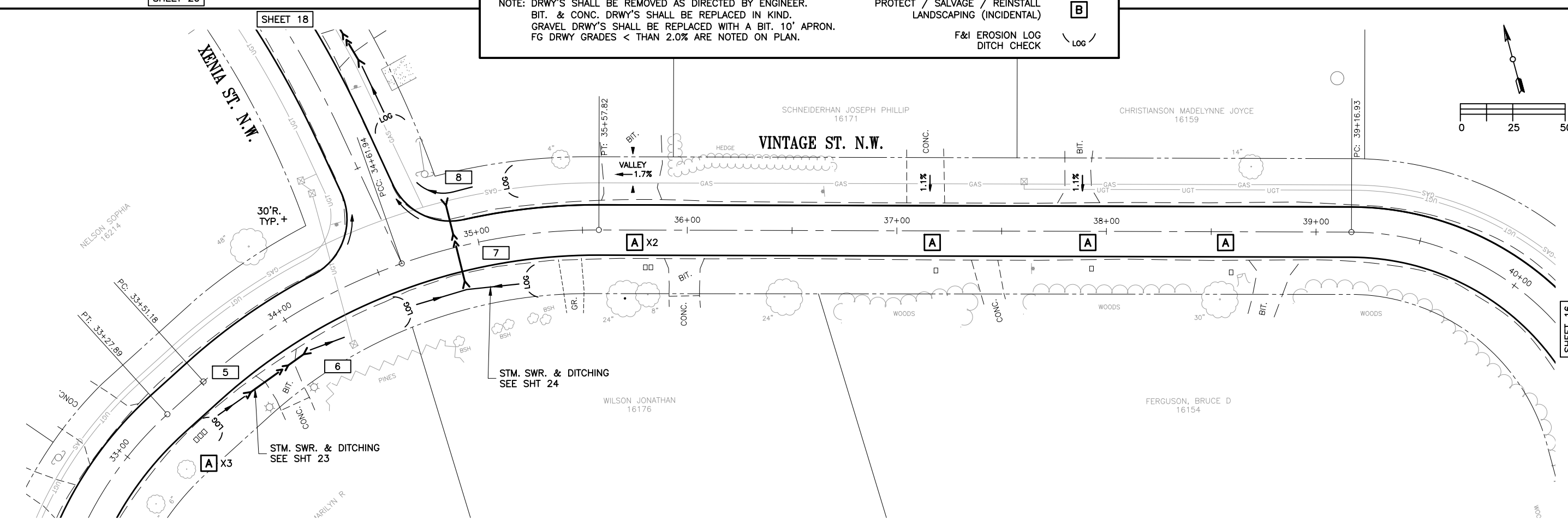
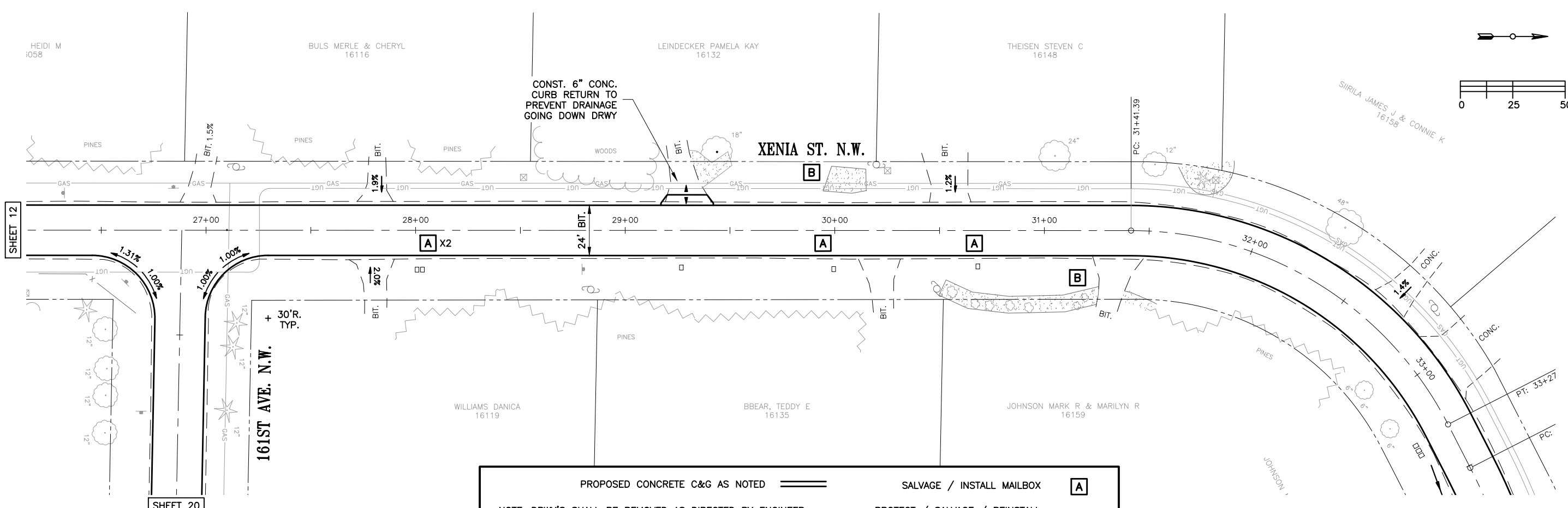


2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A





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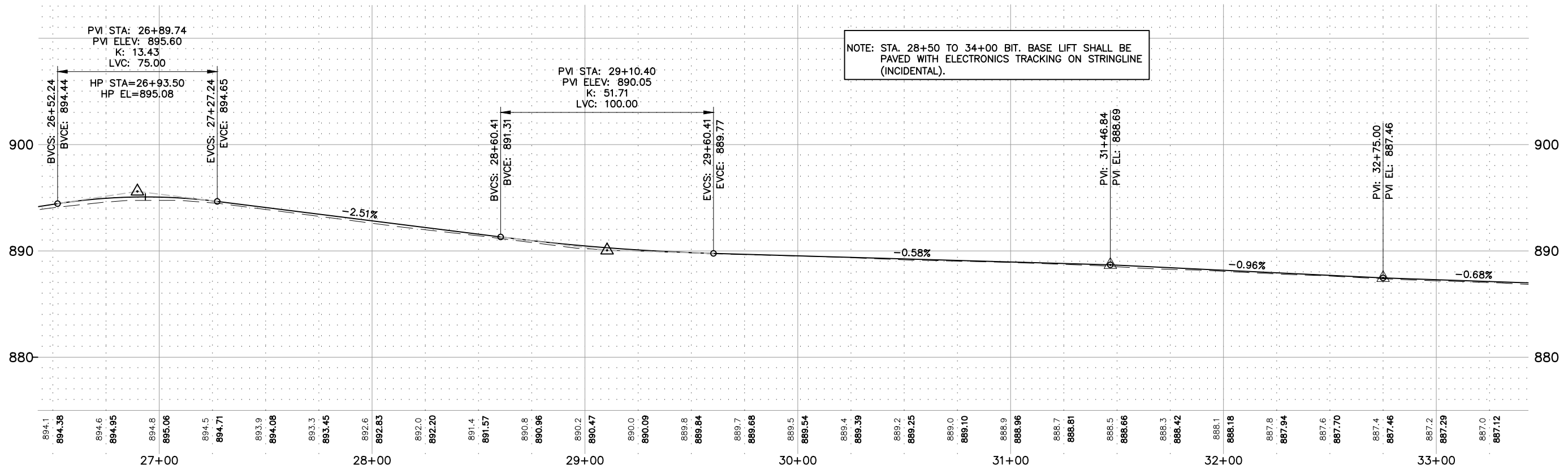
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JUL	AAK	DOB	MARCH 4, 2025

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DAVID D. BERKOWITZ
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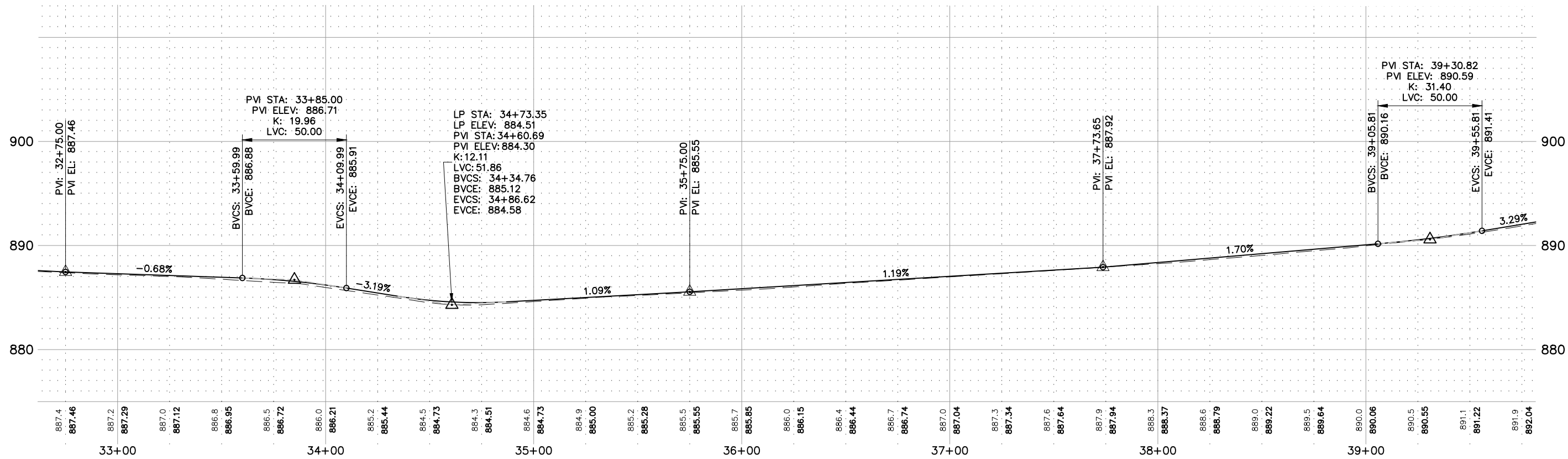
CITY OF ANDOVER

**2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A**



XENIA ST. N.W.

1" = 50' HORZ.
1" = 10' VERT.



VINTAGE ST. N.W.

XENIA ST. N.W. / VINTAGE ST. N.W. PROFILE
26+50 TO 39+00

SHEET NO. 15 OF 95 SHEETS

DESIGNED	NO.	DATE	BY	DESCRIPTION OF REVISIONS
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David D. Berkowitz

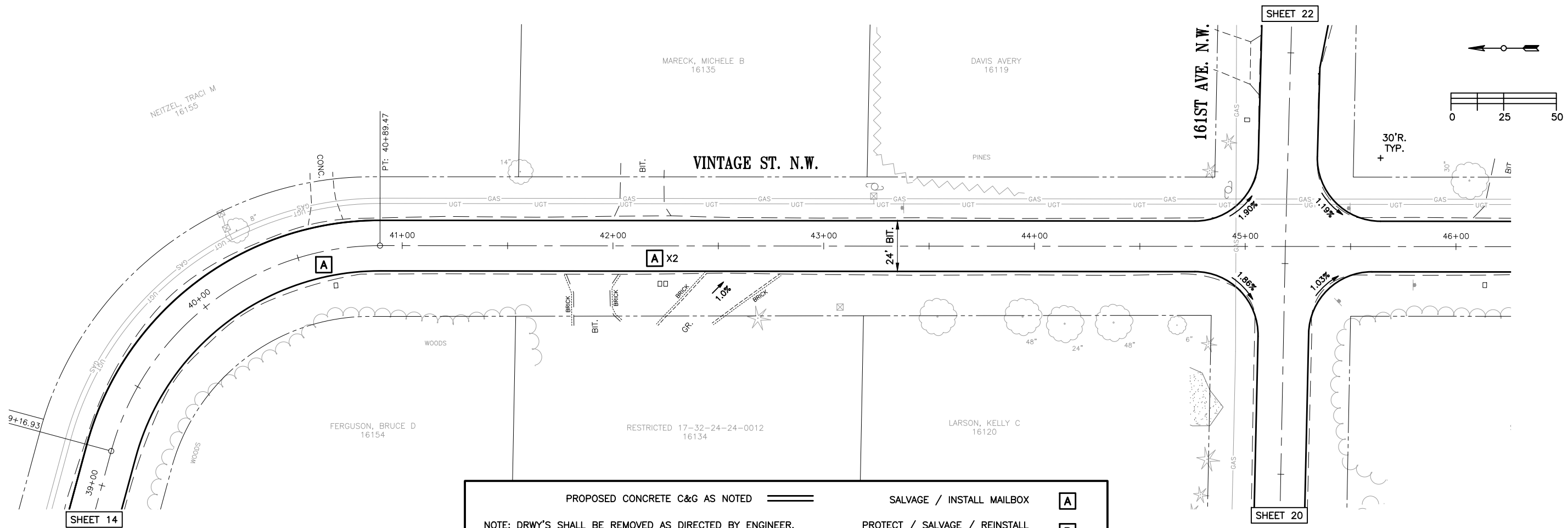
DAVID D. BERKOWITZ

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REG. NO. 26757

CITY OF
ANDOVER

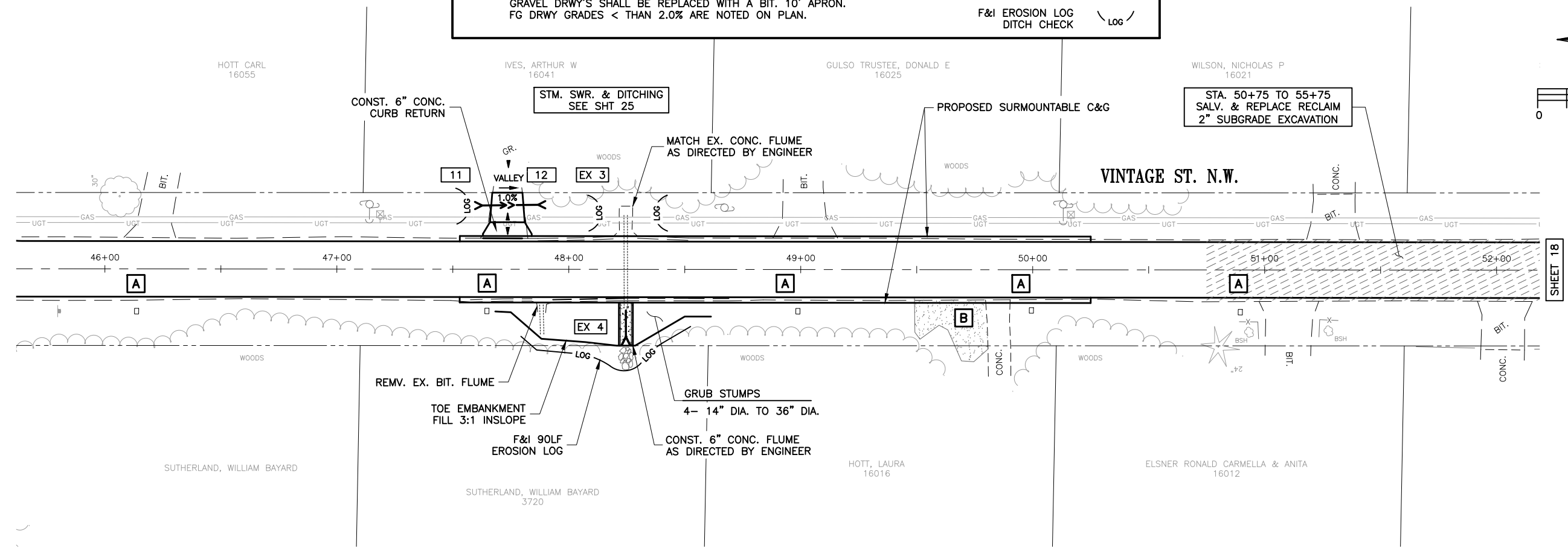
2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A



PROPOSED CONCRETE C&G AS NOTED

NOTE: DRWY'S SHALL BE REMOVED AS DIRECTED BY ENGINEER.
BIT. & CONC. DRWY'S SHALL BE REPLACED IN KIND.
GRAVEL DRWY'S SHALL BE REPLACED WITH A BIT. 10' APRON.
FG DRWY GRADES < THAN 2.0% ARE NOTED ON PLAN.

SALVAGE / INSTALL MAILBOX [A]
PROTECT / SALVAGE / REINSTALL LANDSCAPING (INCIDENTAL) [B]
F&I EROSION LOG DITCH CHECK [Log]



DESCRIPTION OF REVISIONS	
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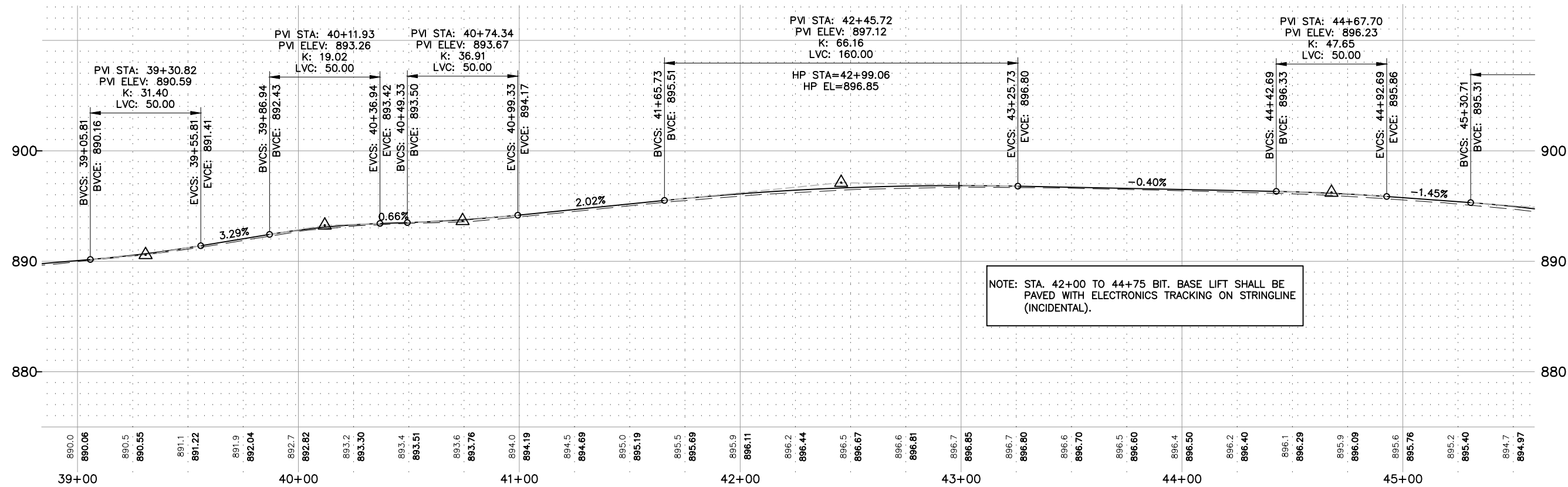
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DAVID D. BERKOWITZ
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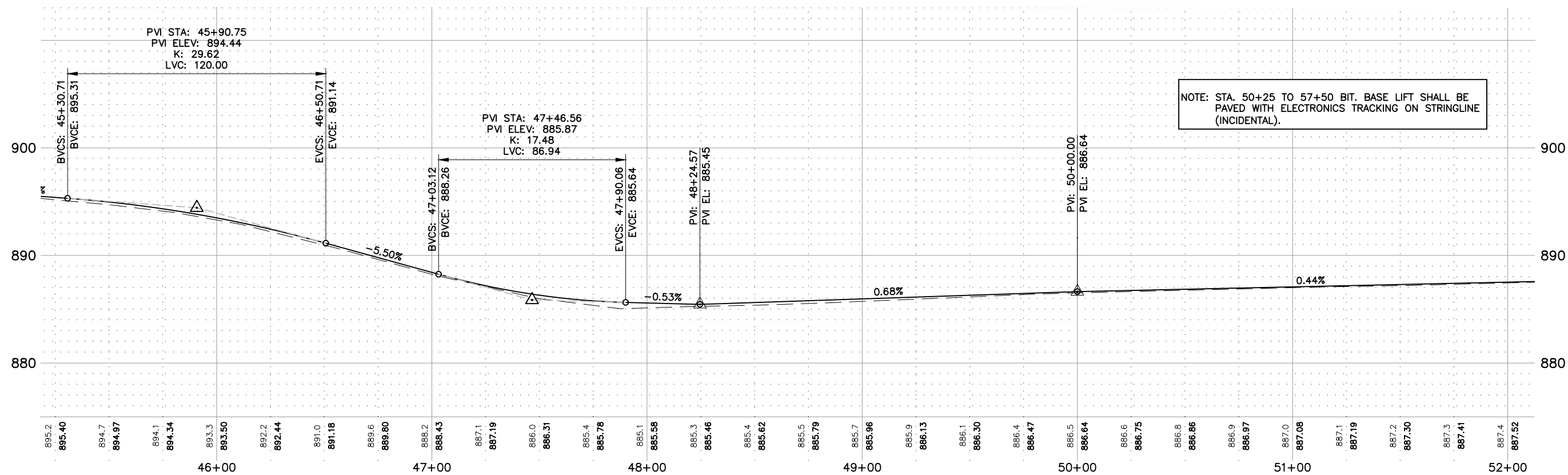
CITY OF ANDOVER

**2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A**



VINTAGE ST. N.W.

1" = 50' HORZ.
1" = 10' VERT.



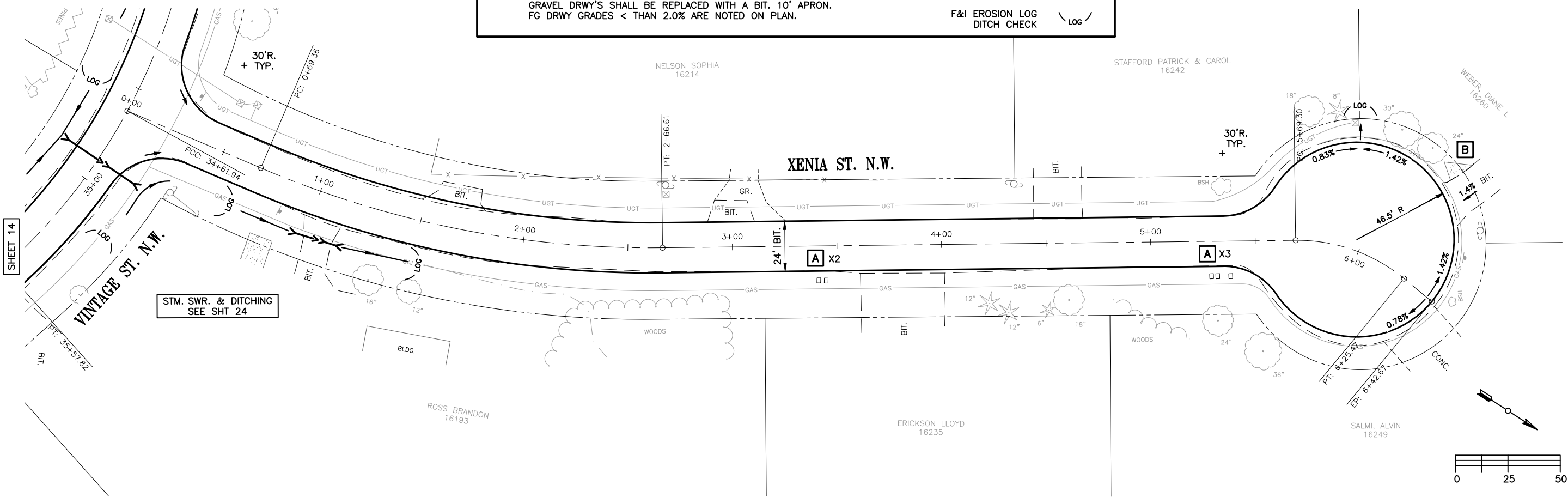
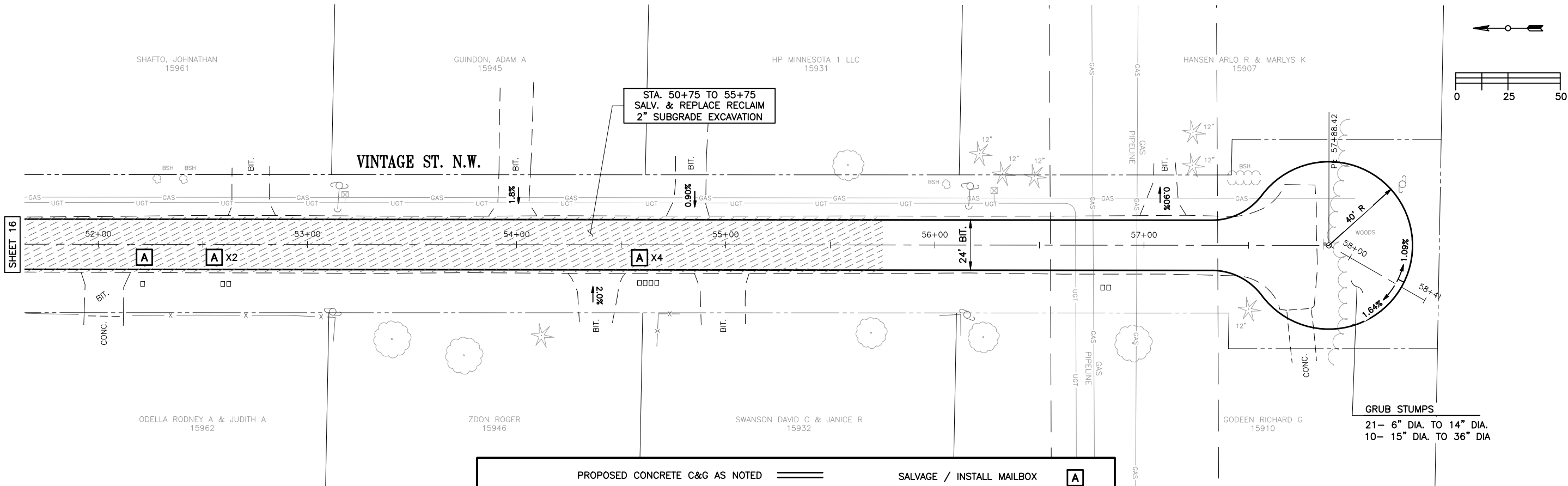
VINTAGE ST. N.W.

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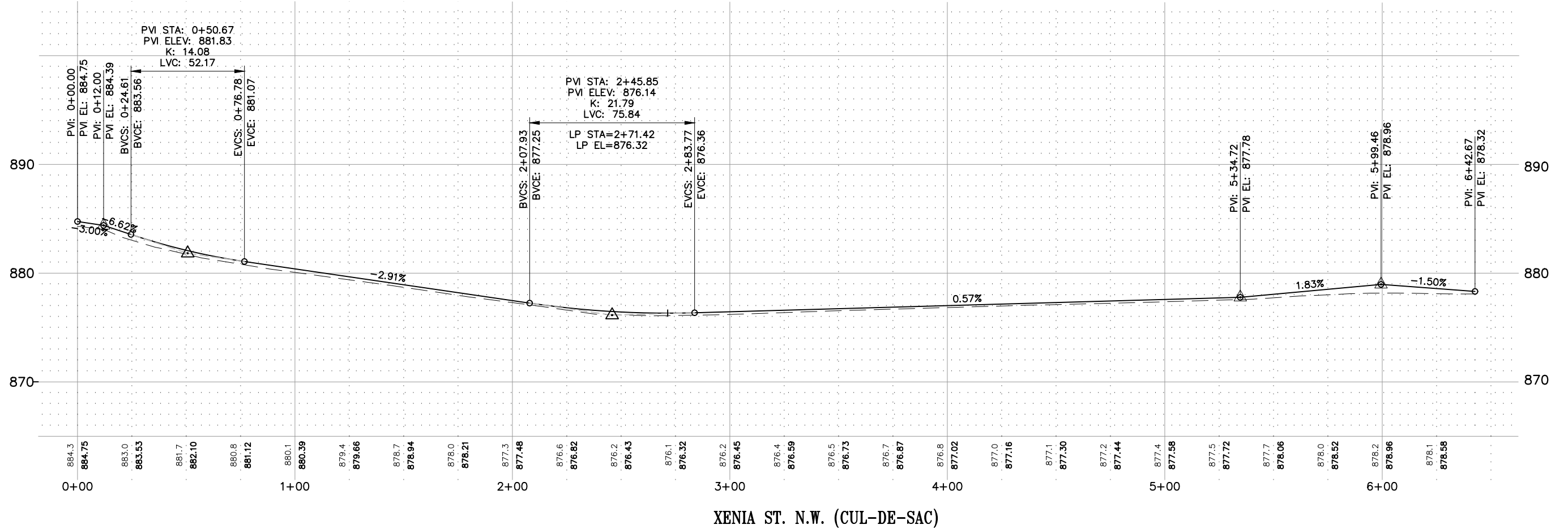
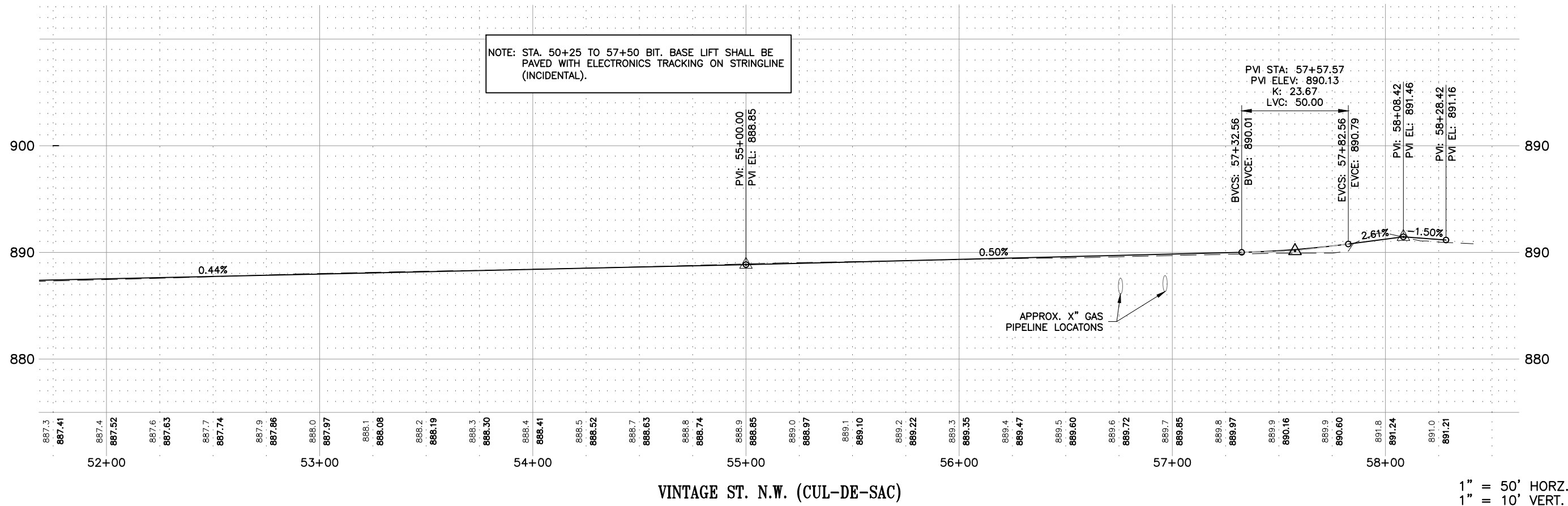
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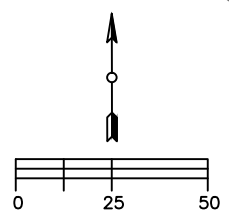
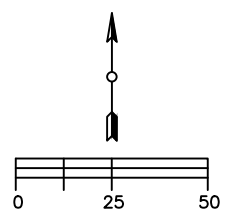
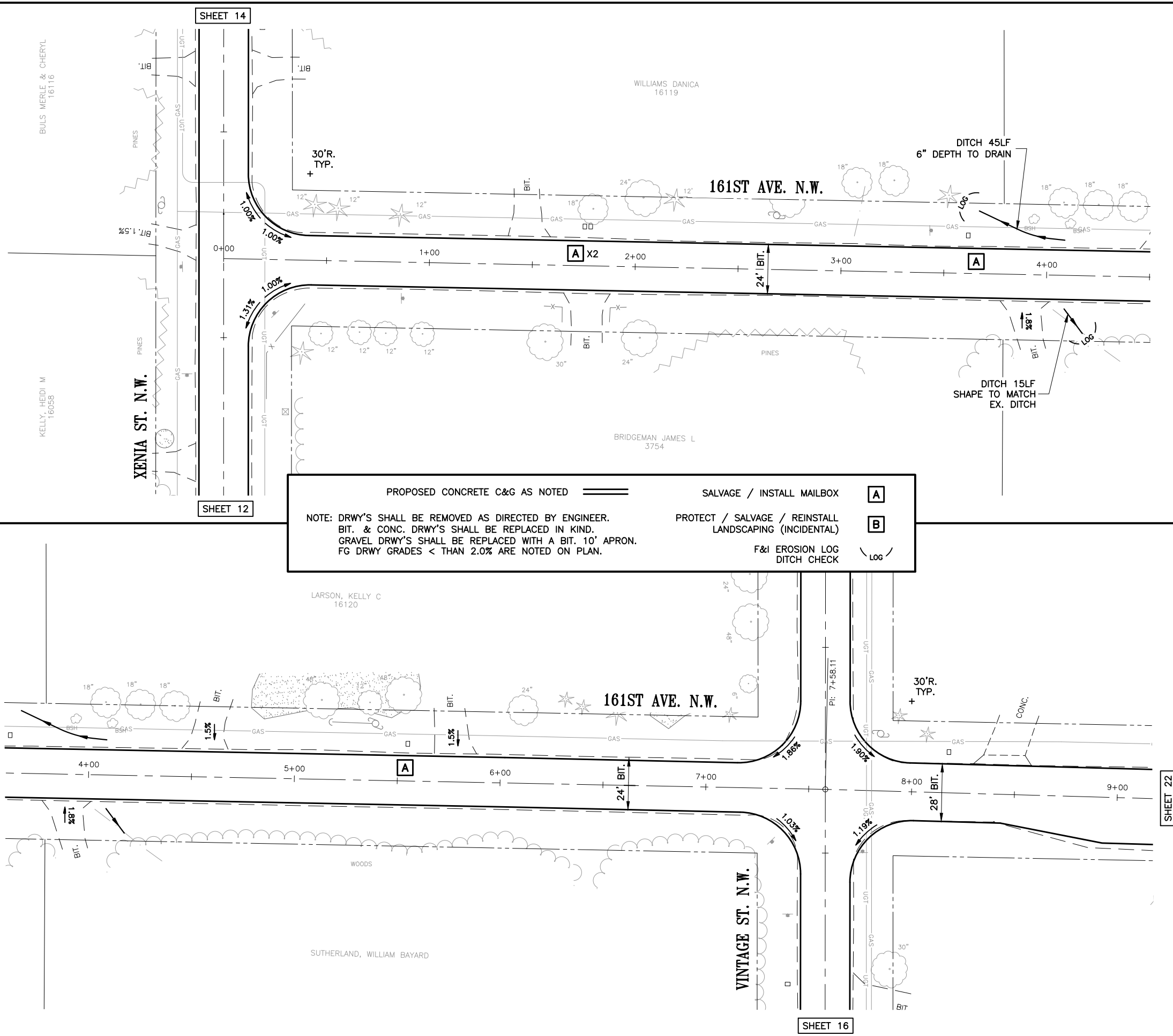
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CITY OF ANDOVER

**2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A**

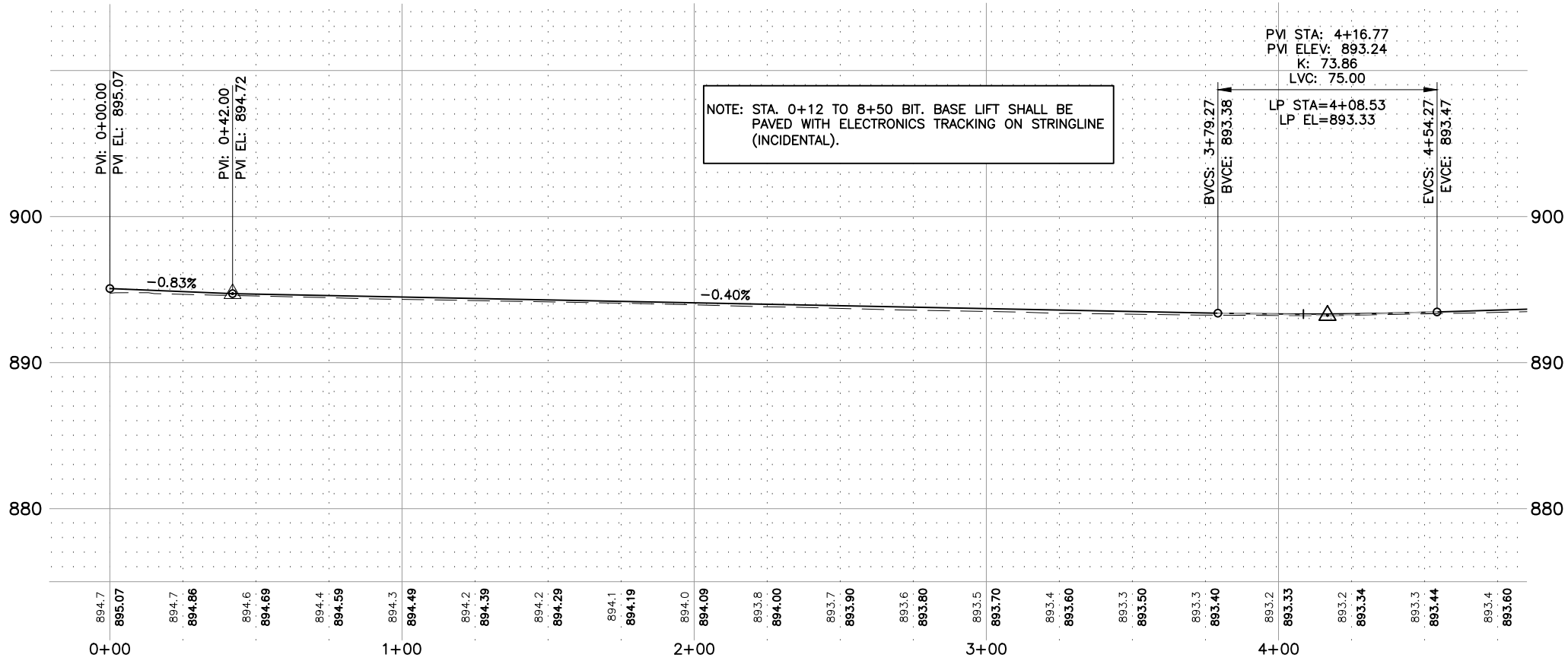




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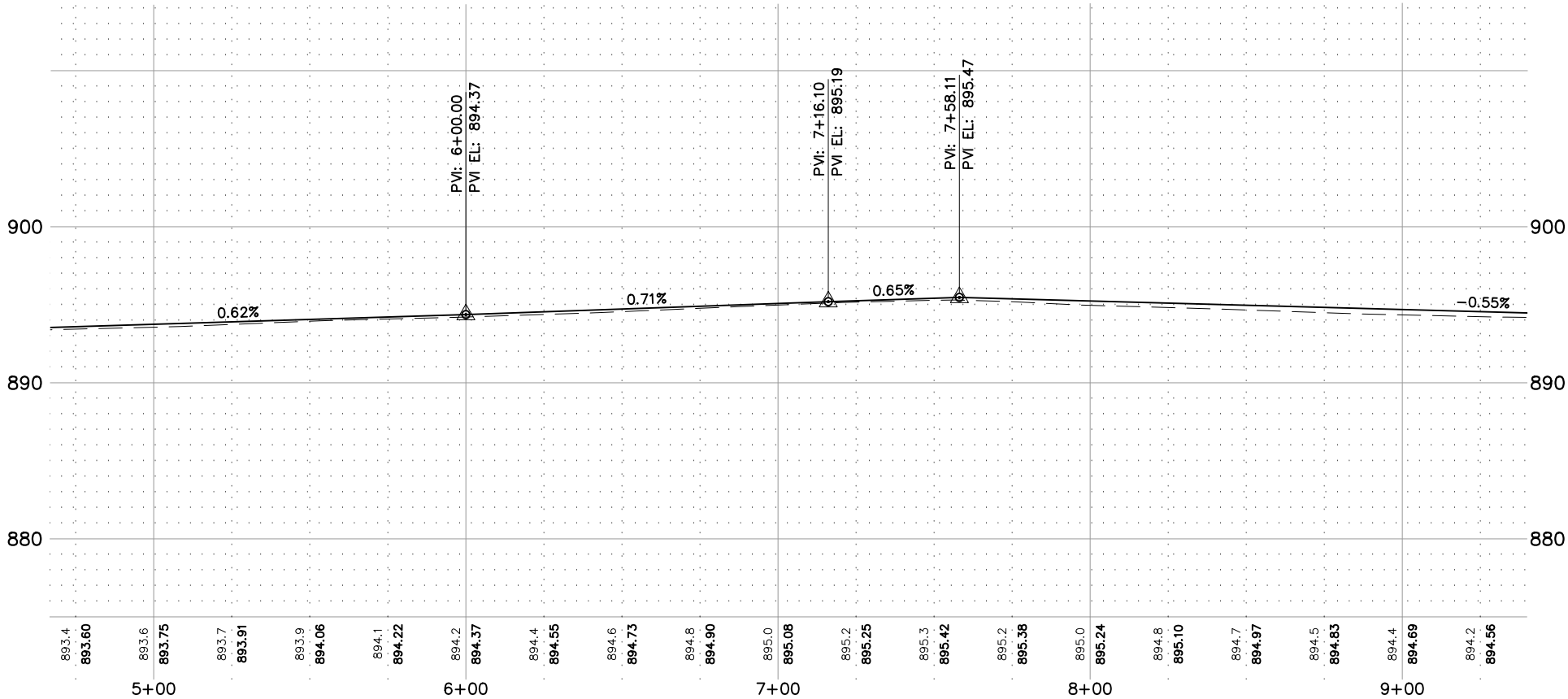


2025 STREET RECONSTRUCTION
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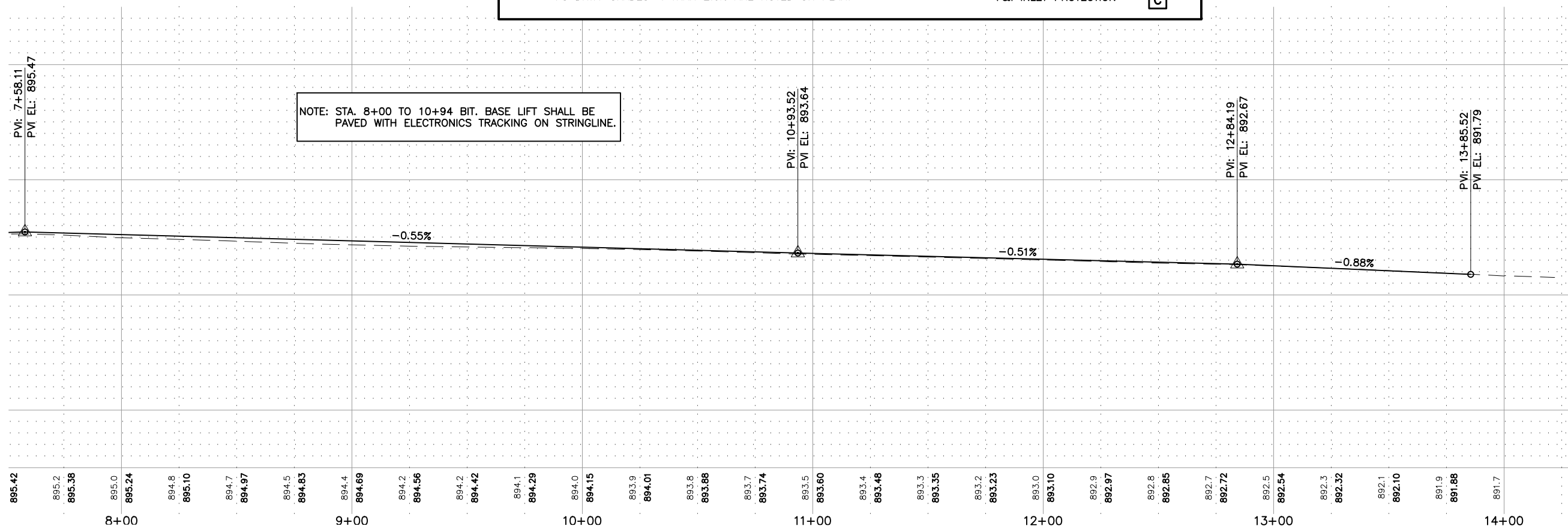
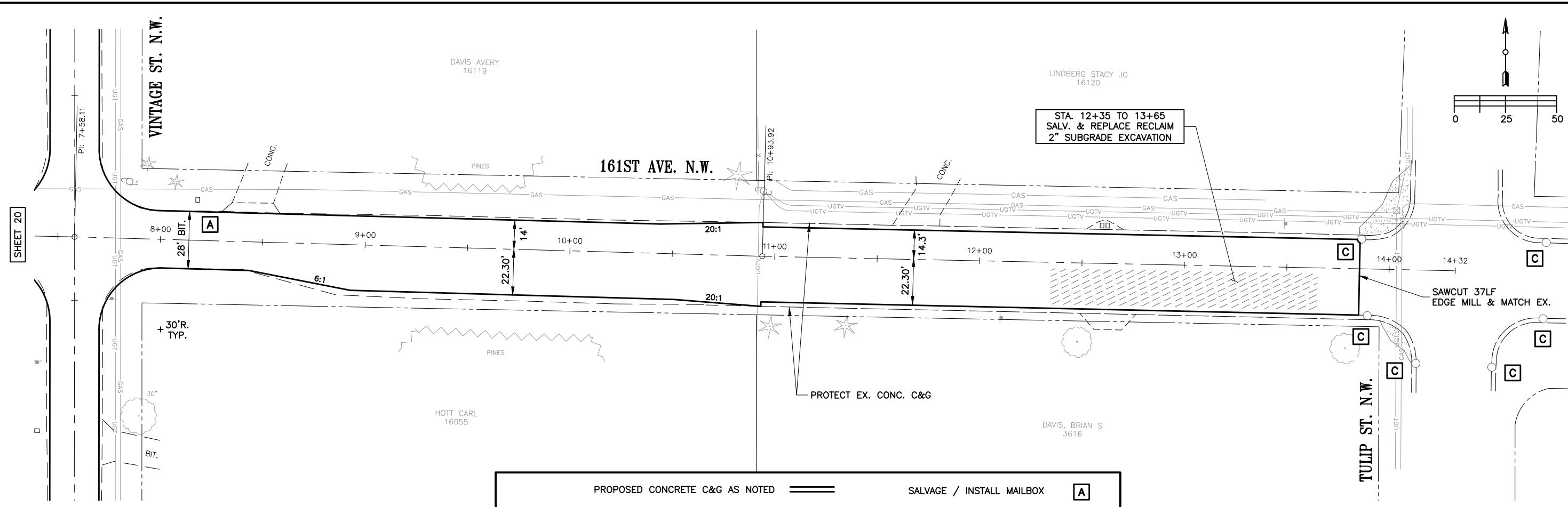
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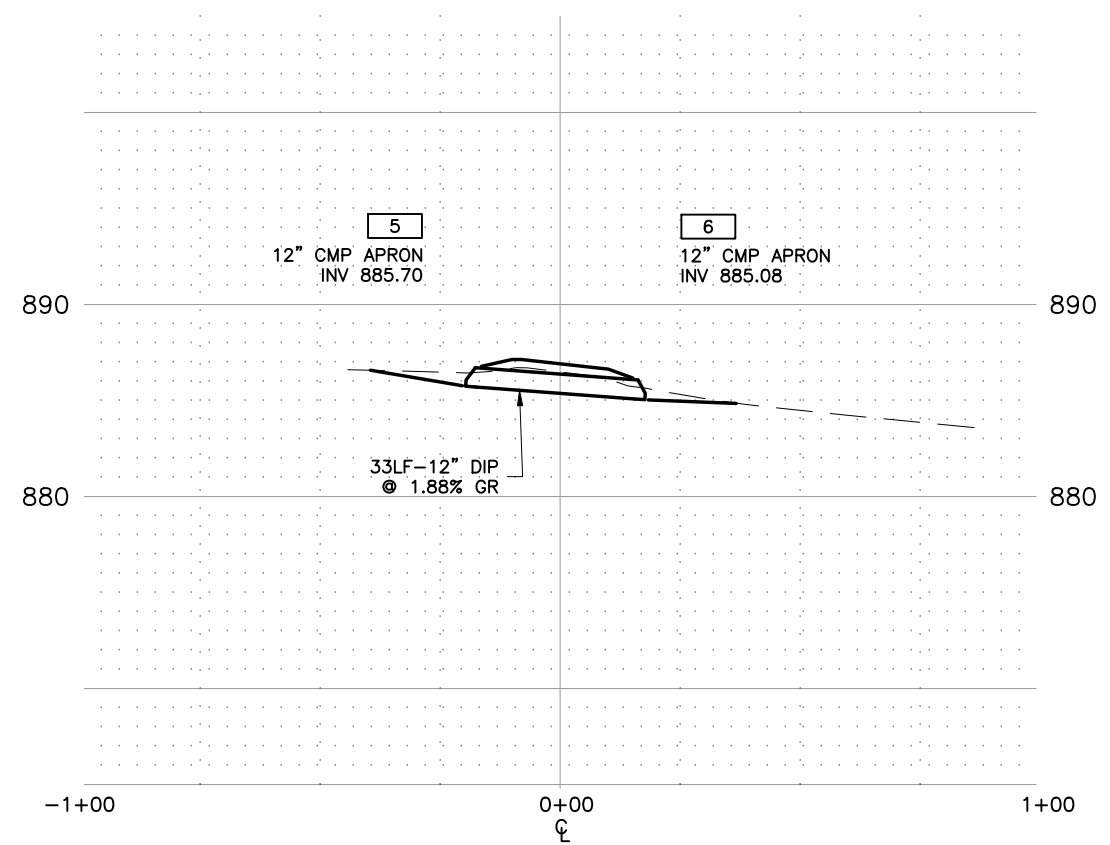
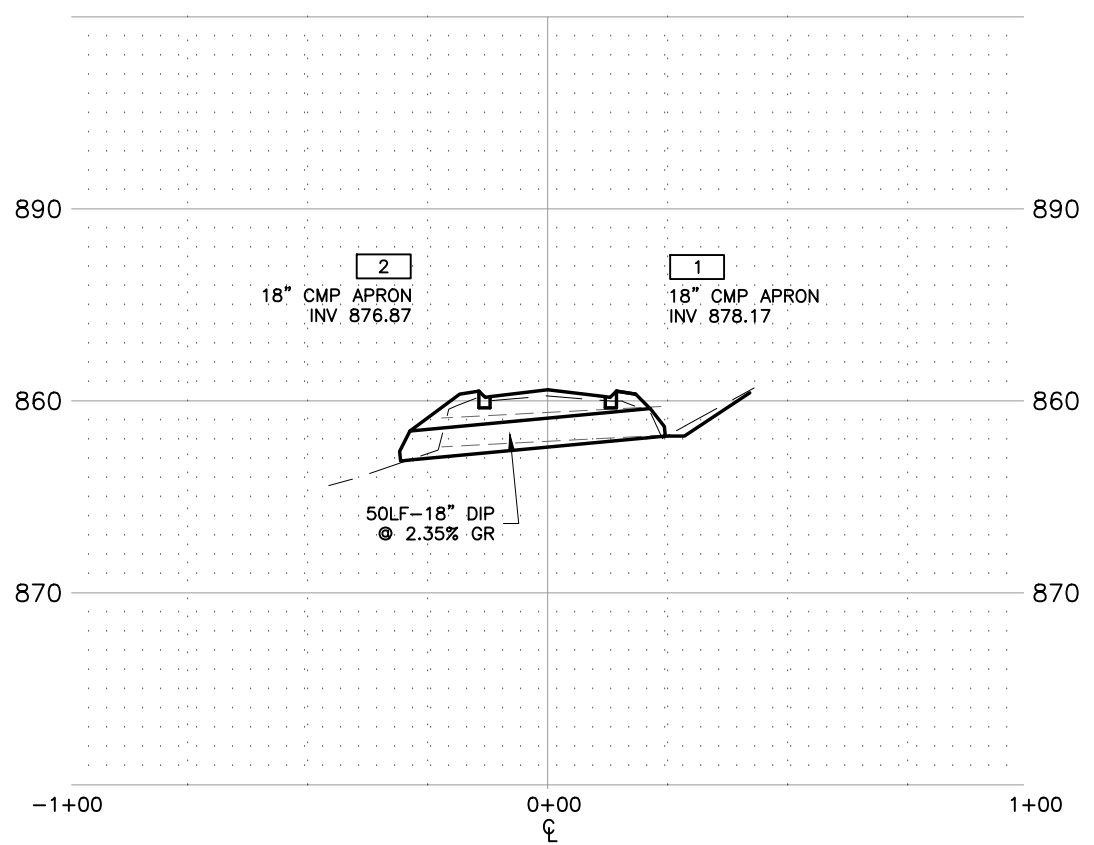
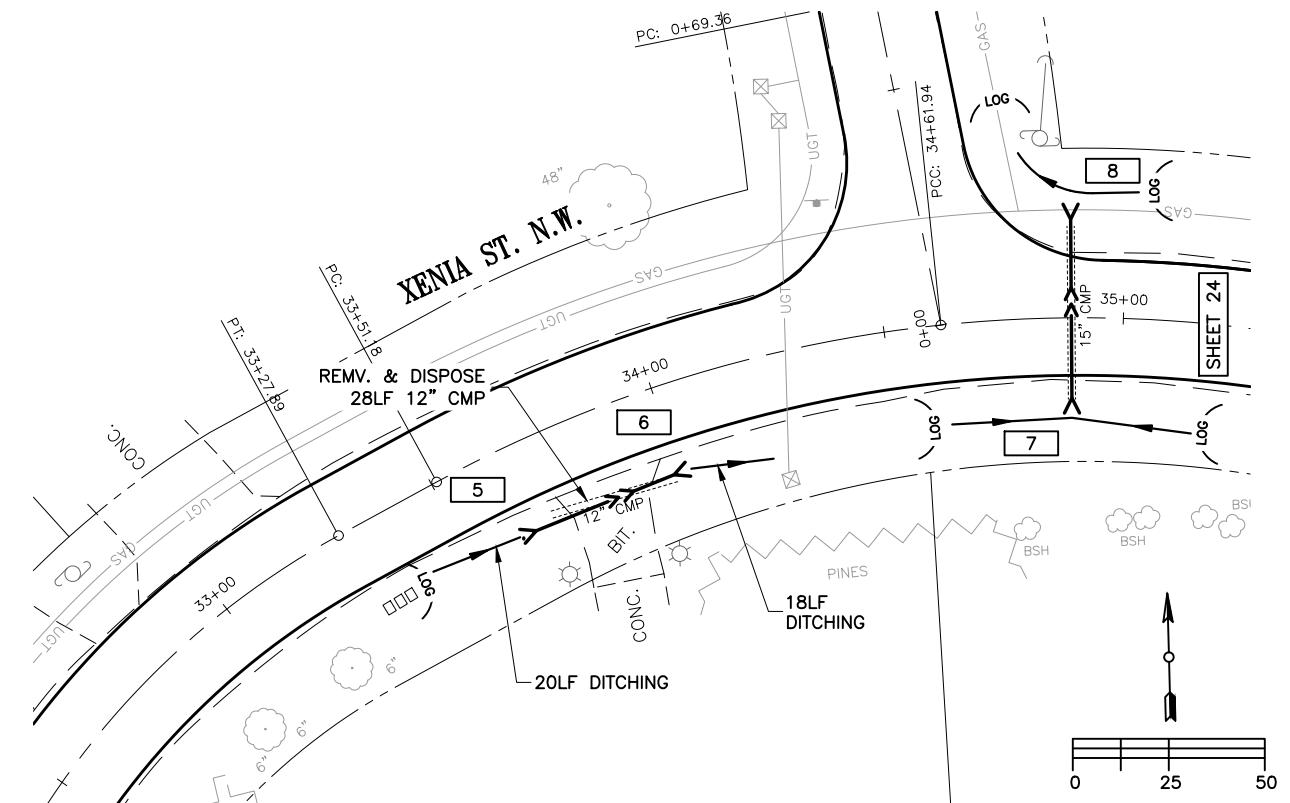
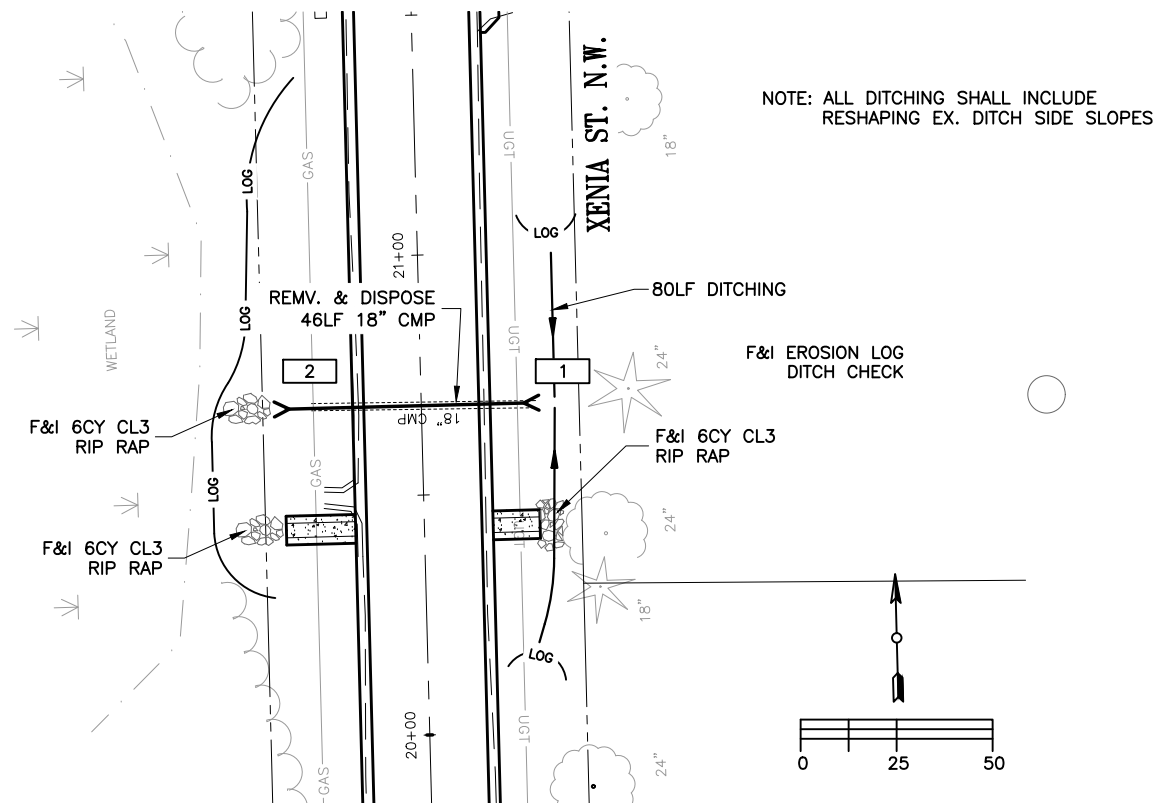
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161ST ST. N.W.

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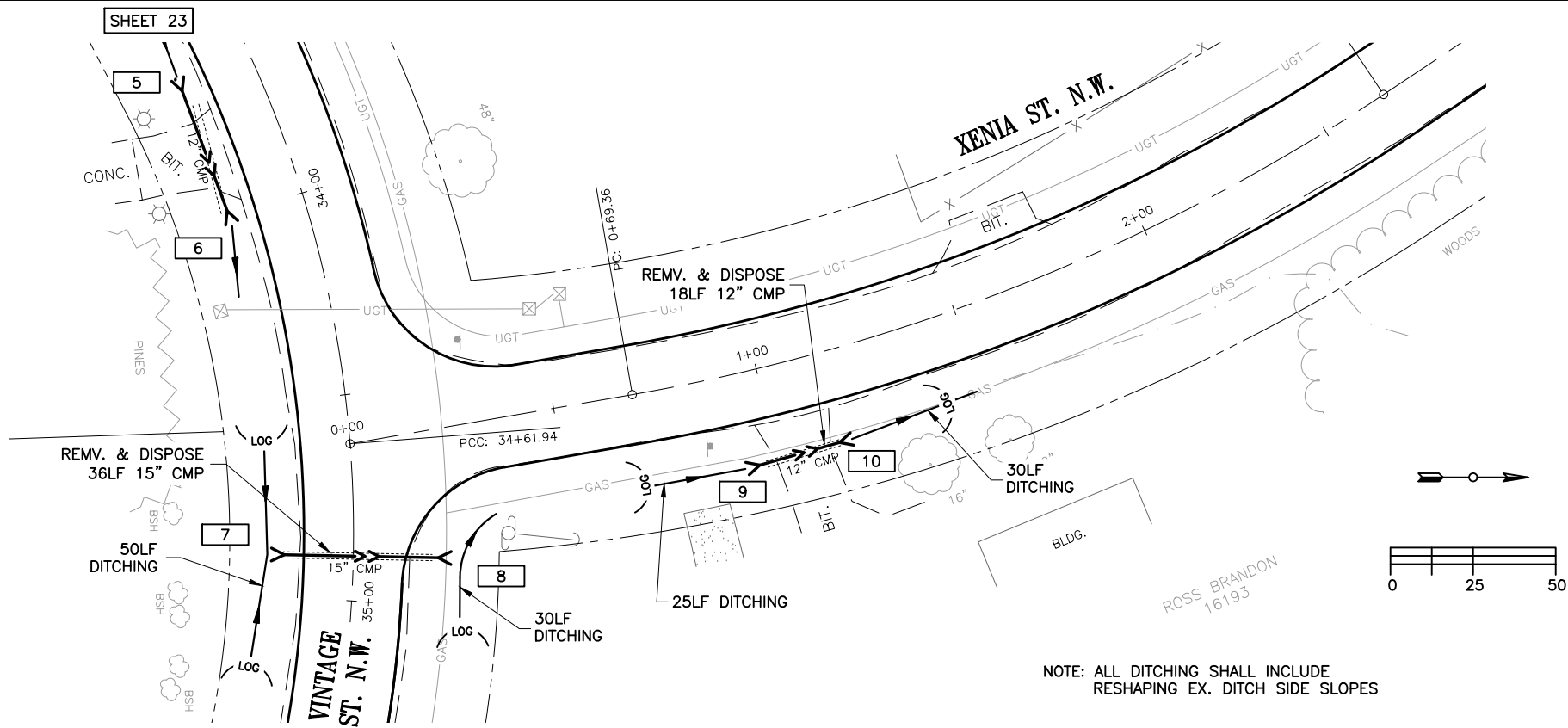
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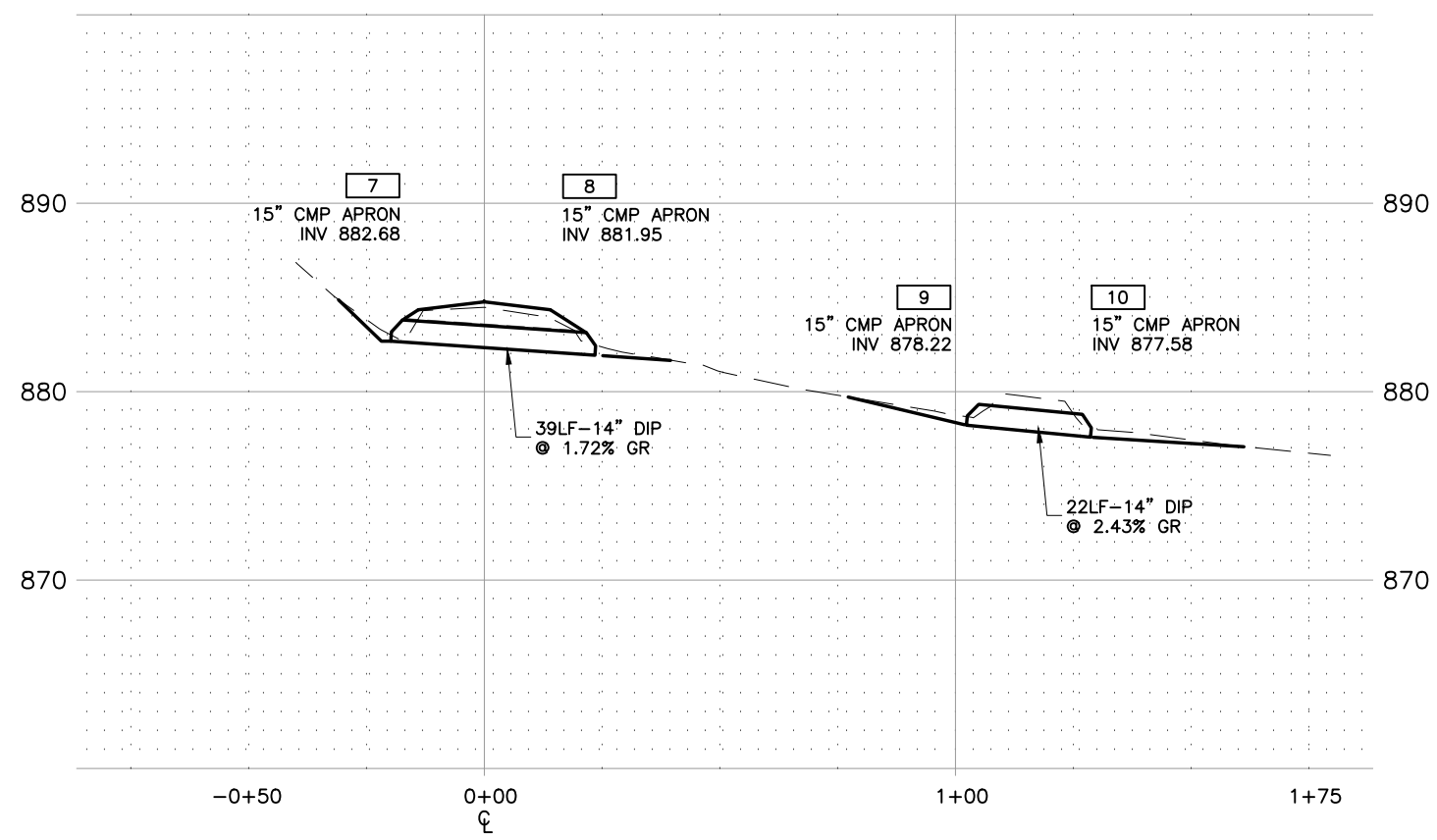
David D. Berkowitz
DAVID D. BERKOWITZ
DATE: MARCH 4, 2025
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CITY OF ANDOVER

**2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A**



34+90 VINTAGE ST. N.W. CULVERT REPLACEMENT
1+07 XENIA ST. N.W. DRWY. CULVERT REPLACEMENT



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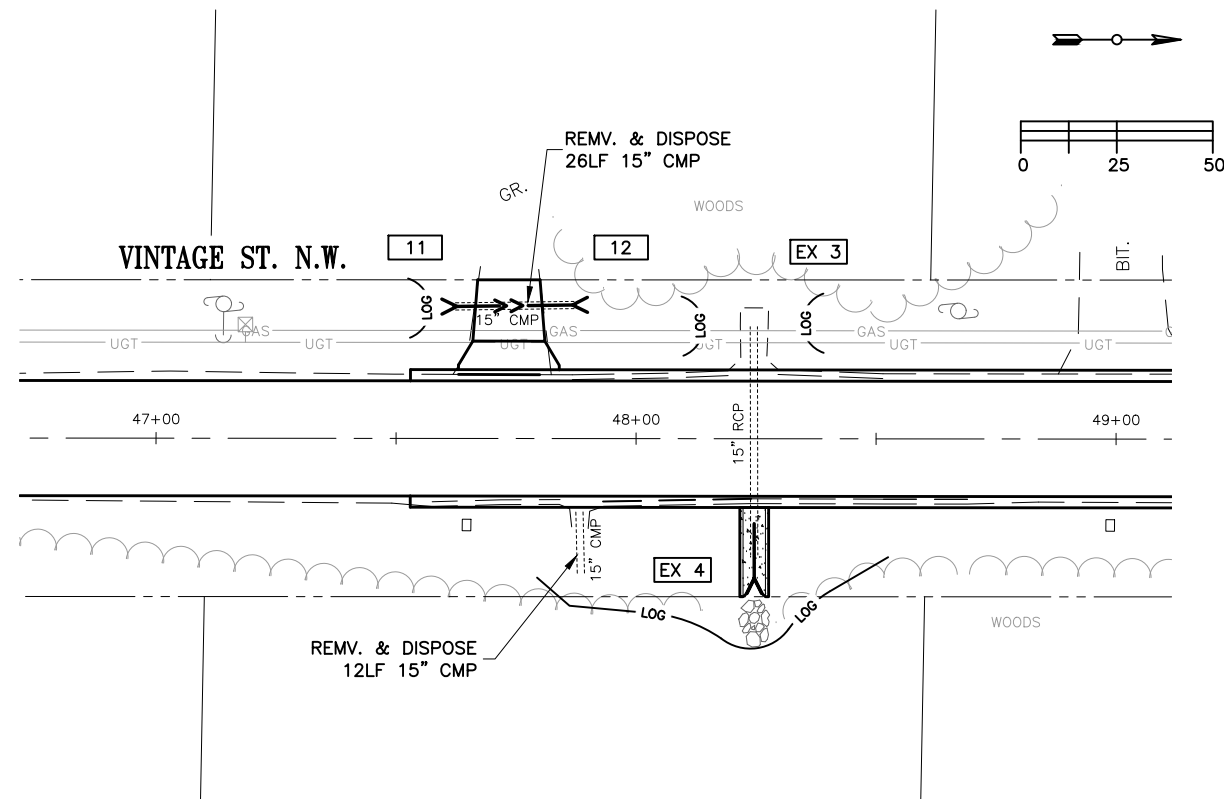
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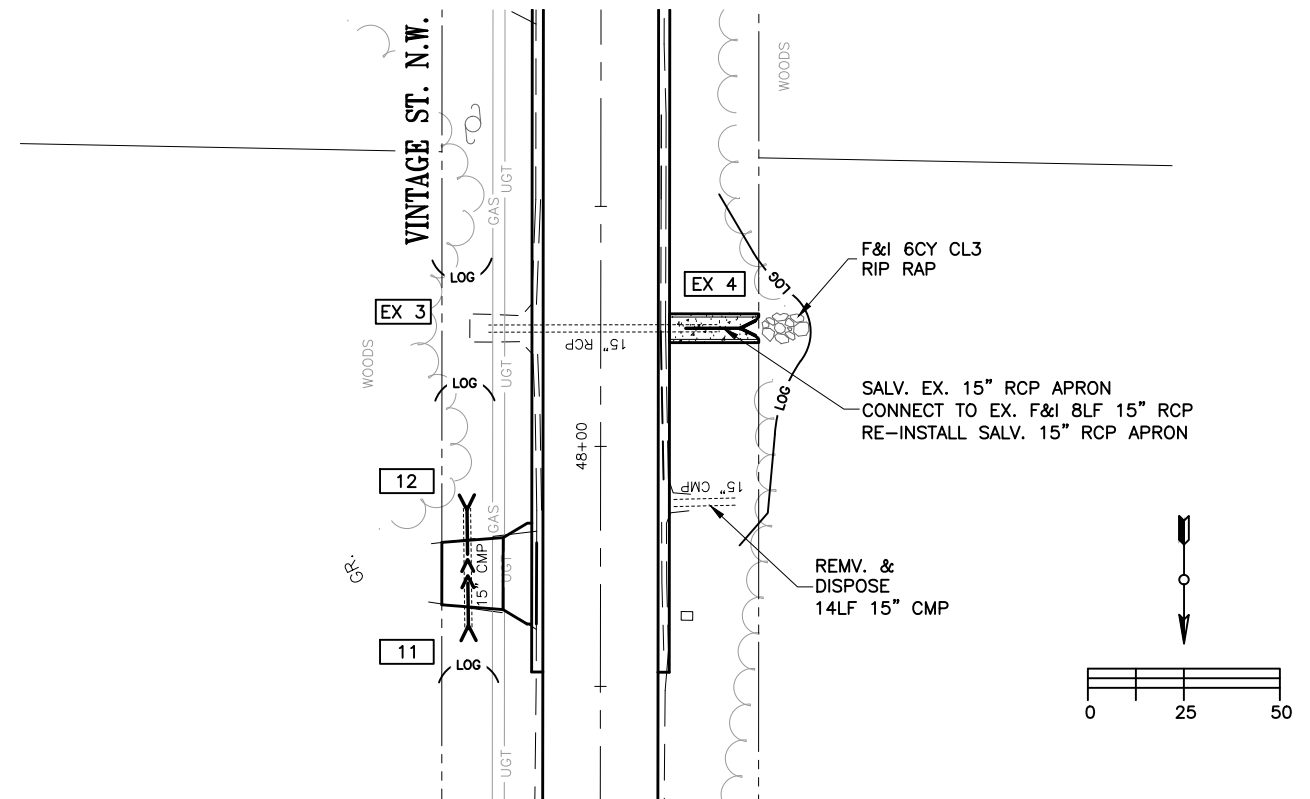


CITY OF
ANDOVER

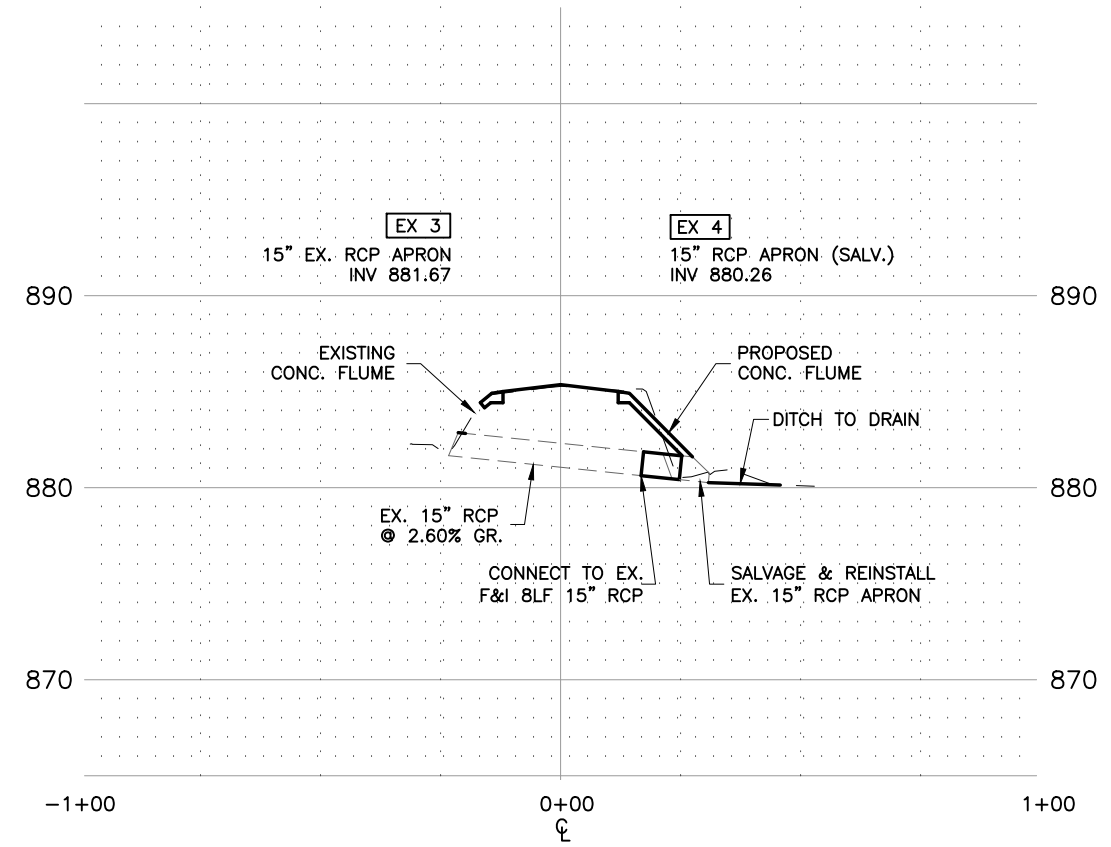
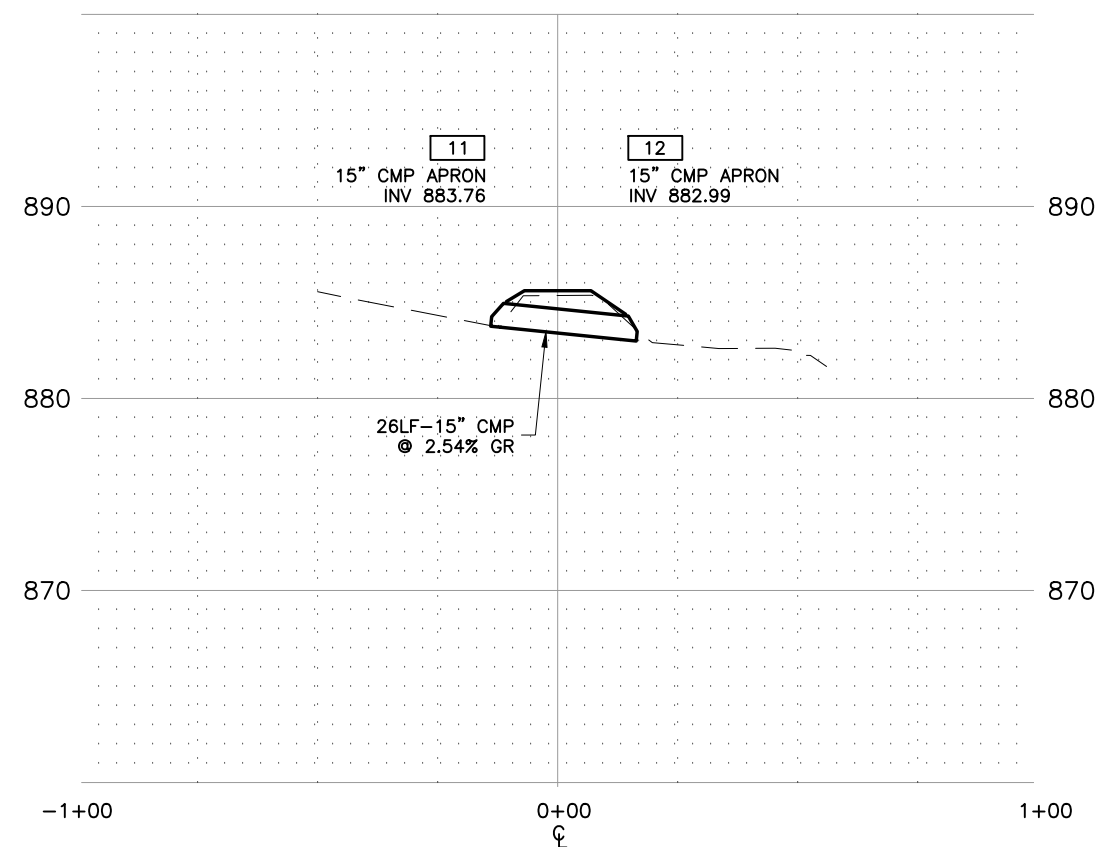
2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A



47+74 VINTAGE ST. N.W. DRWY.
CULVERT REPLACEMENT



48+24 VINTAGE ST. N.W.
CULVERT REPLACEMENT



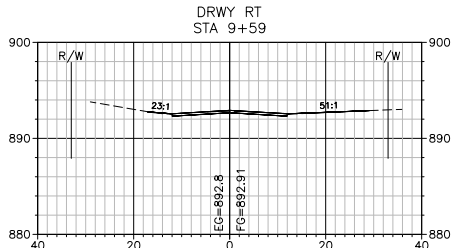
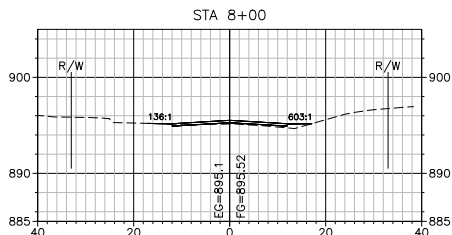
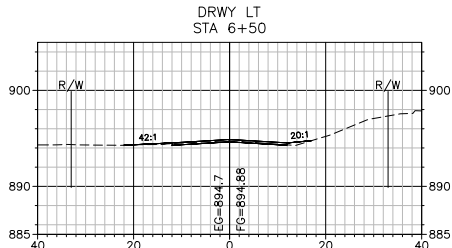
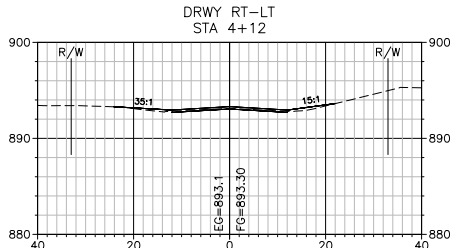
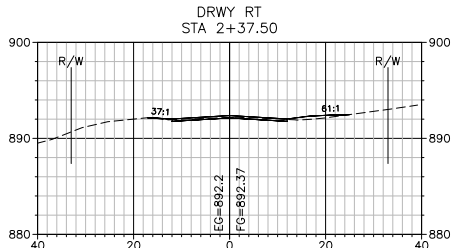
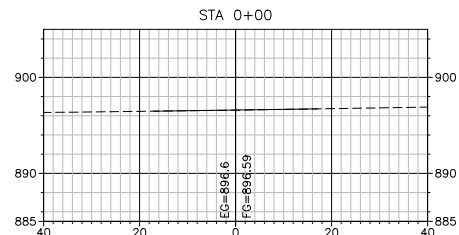
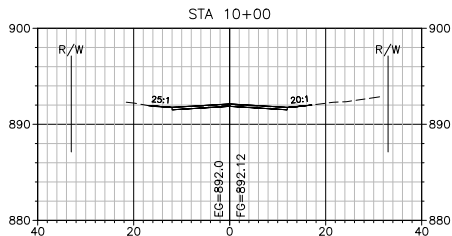
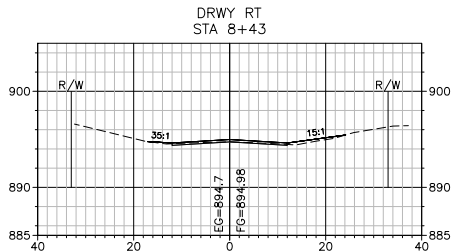
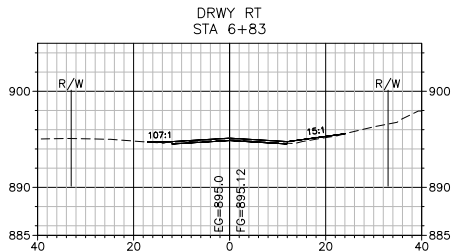
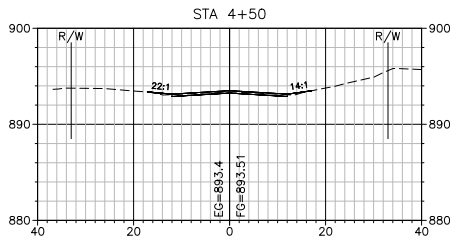
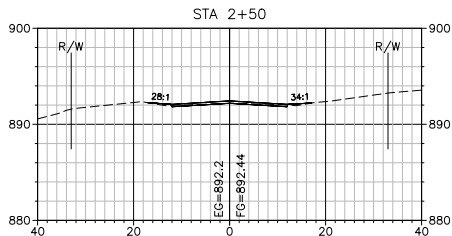
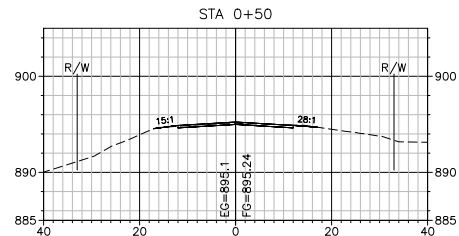
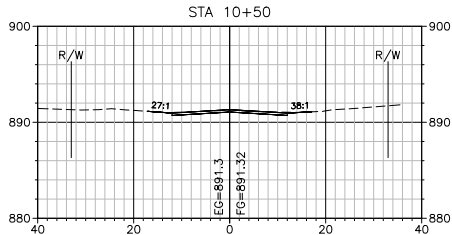
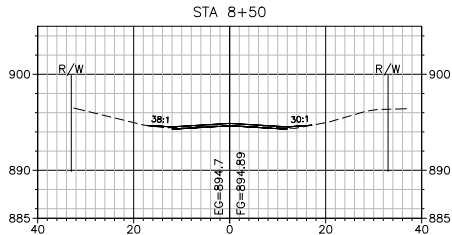
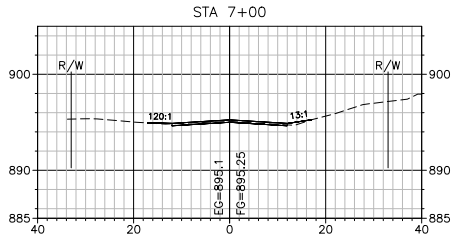
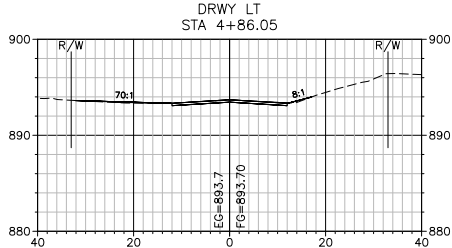
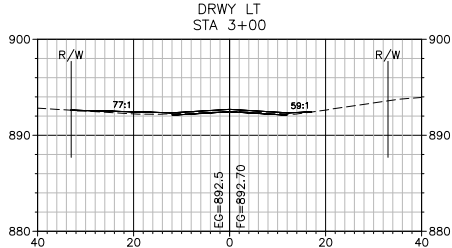
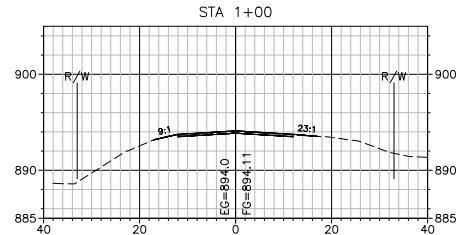
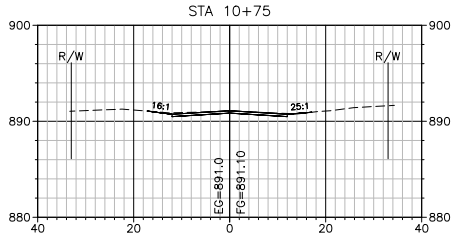
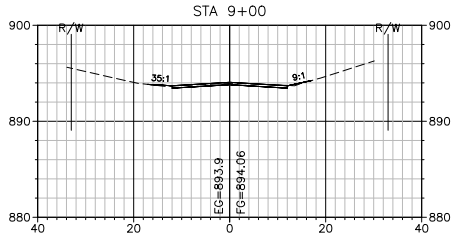
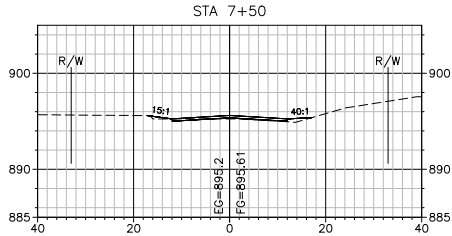
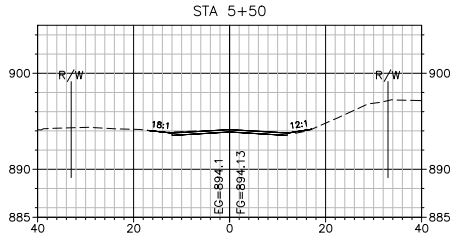
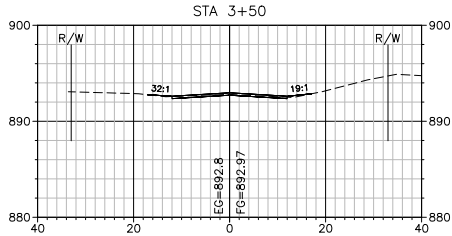
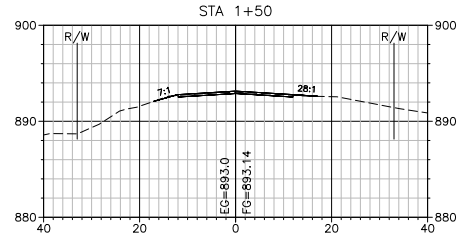
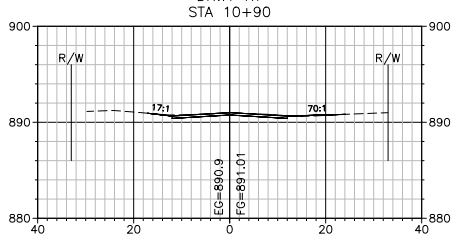
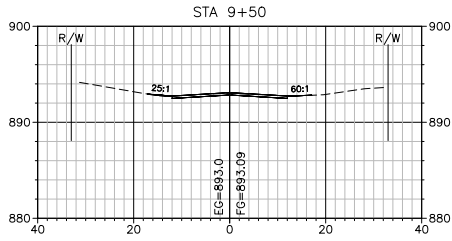
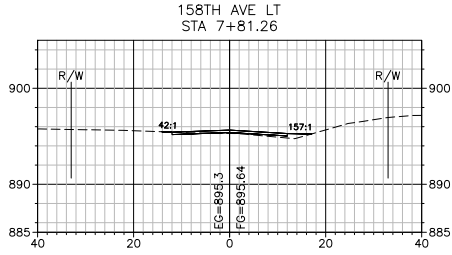
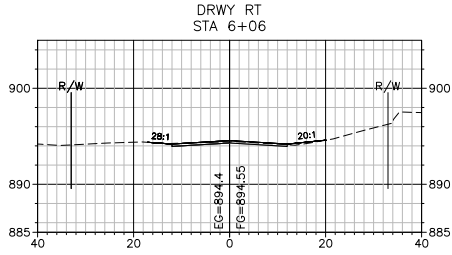
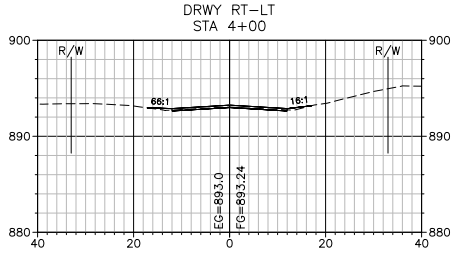
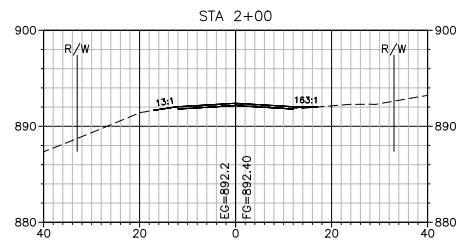
DESIGNED	DRAWN	CHECKED	DATE	BY	DESCRIPTION OF REVISIONS
JUL	AAK	DOB			

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Berkowitz
DAVID D. BERKOWITZ
DATE: MARCH 4, 2025
REG. NO. 26757

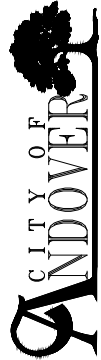


2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST.
CITY PROJECT NO. 25-02A



1" = 10' VERT.
1" = 40' HORIZ.

2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A



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DESIGNED
JUL

DRAWN
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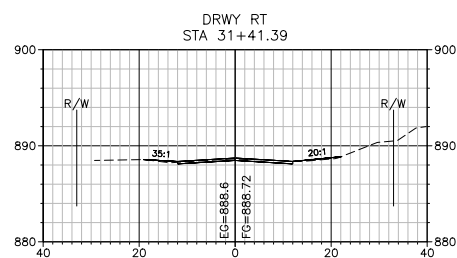
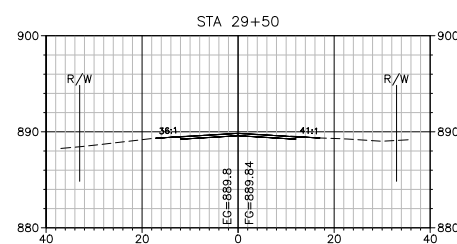
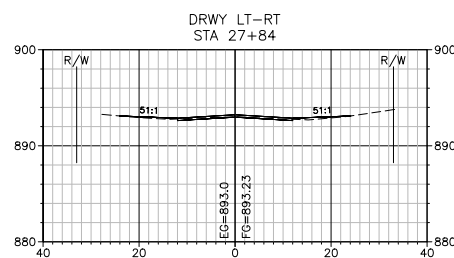
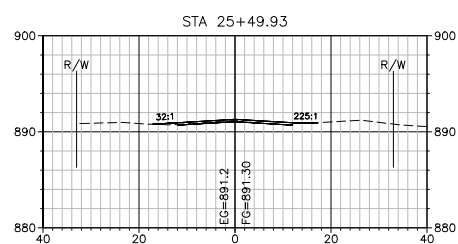
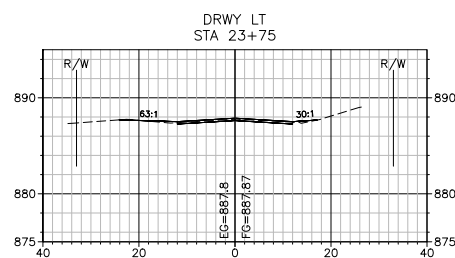
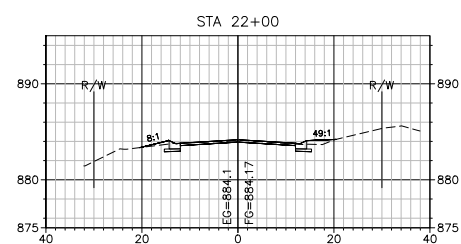
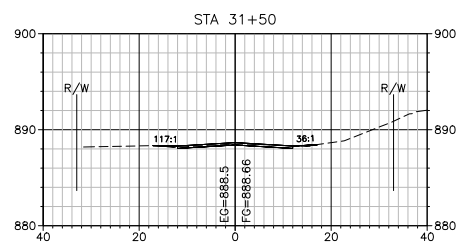
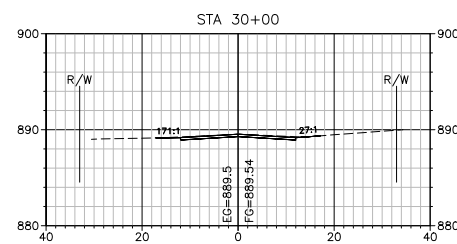
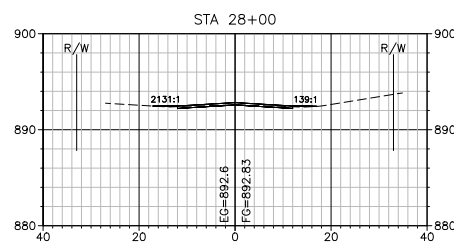
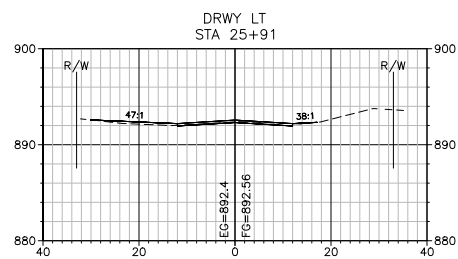
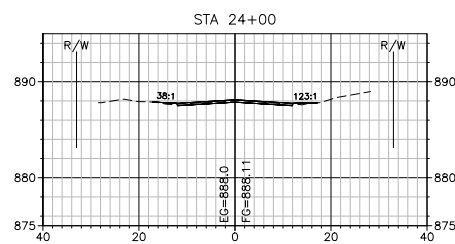
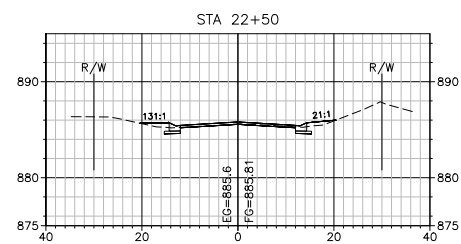
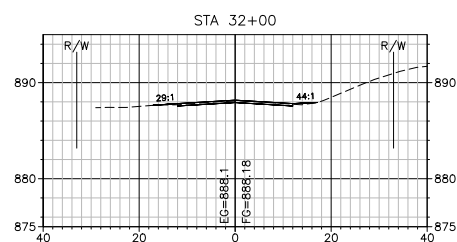
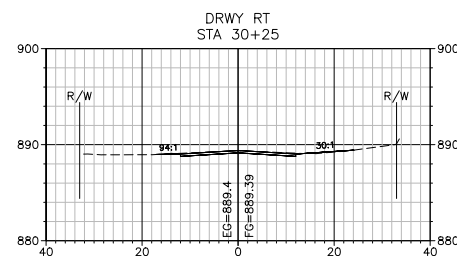
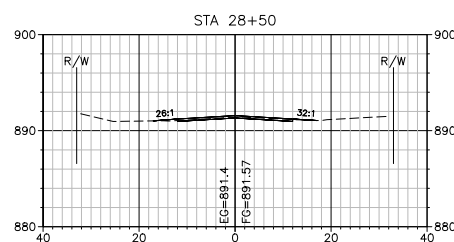
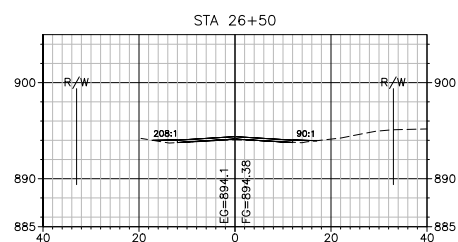
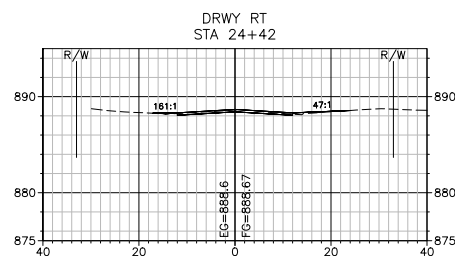
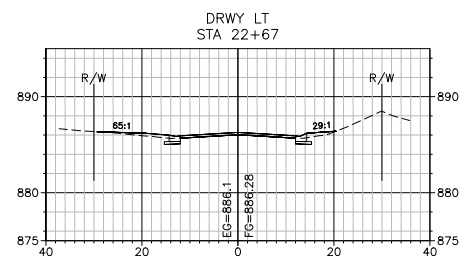
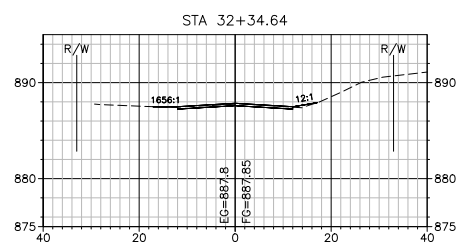
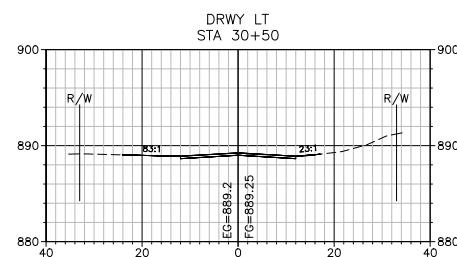
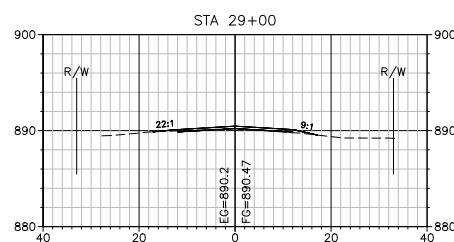
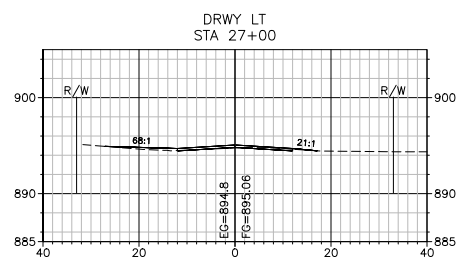
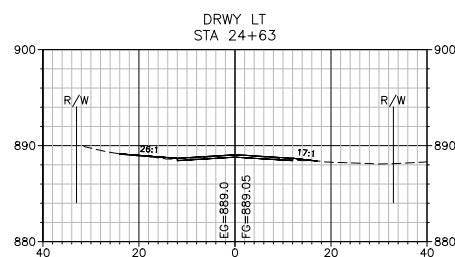
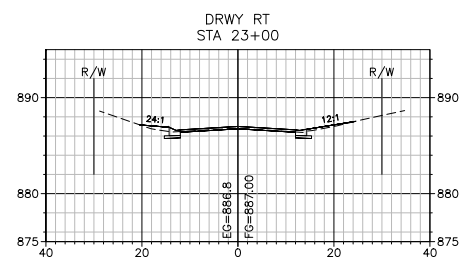
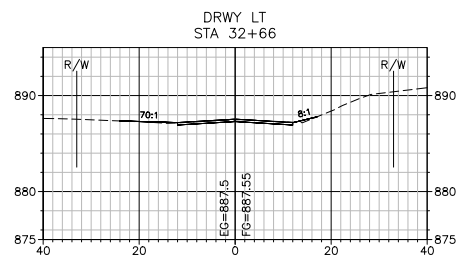
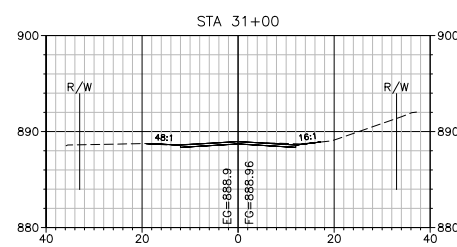
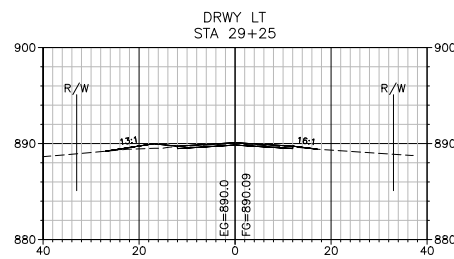
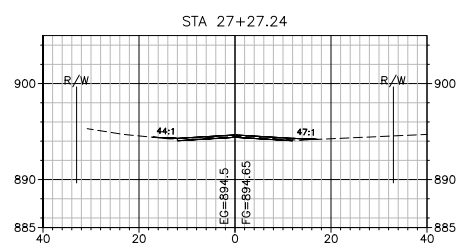
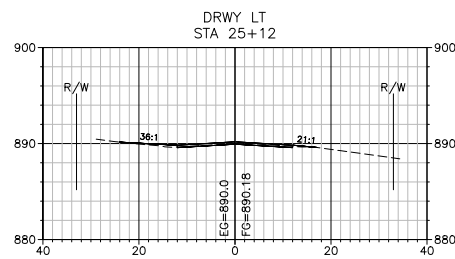
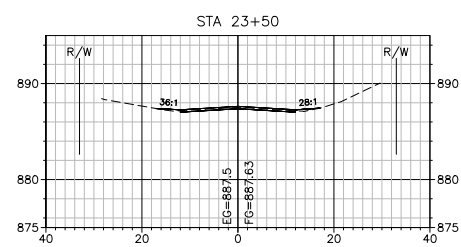
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DESCRIPTION OF REVISIONS

BY

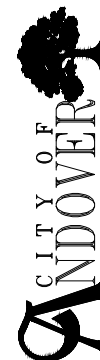
DATE

NO.



1" = 10' VERT.
1" = 40' HORZ.

**2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A**



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DATE: MARCH 4, 2025 REG. NO. 96757

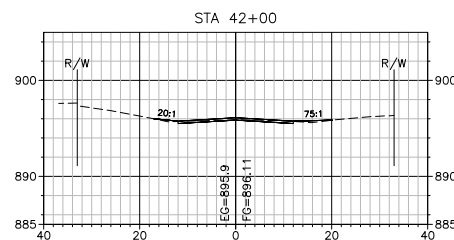
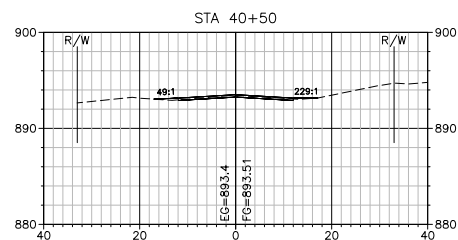
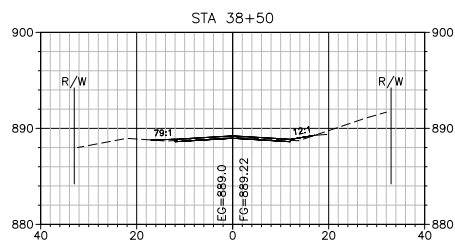
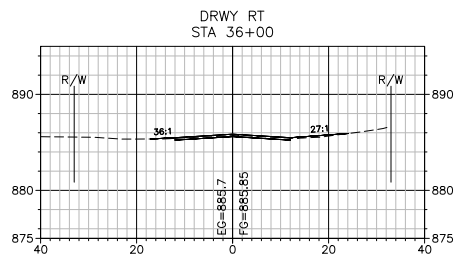
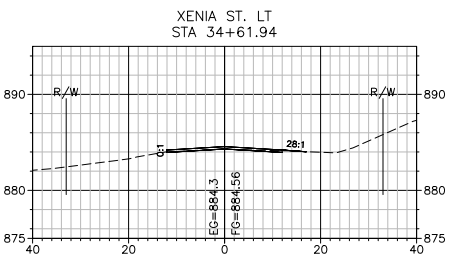
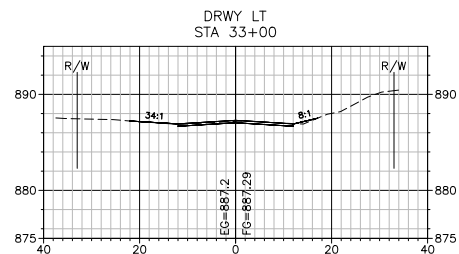
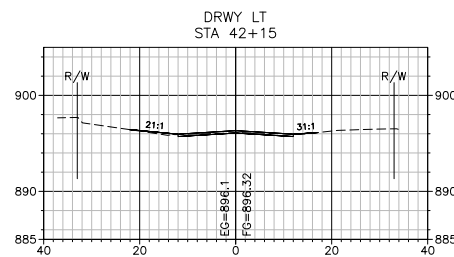
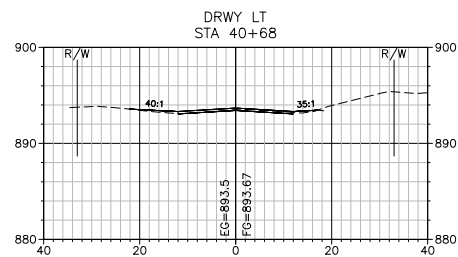
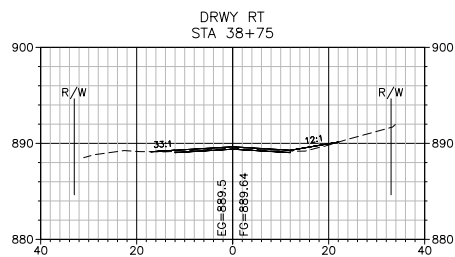
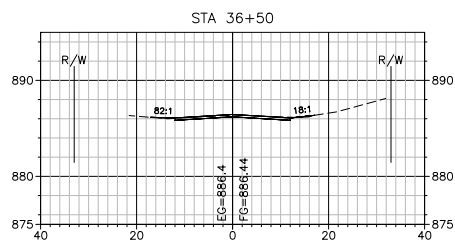
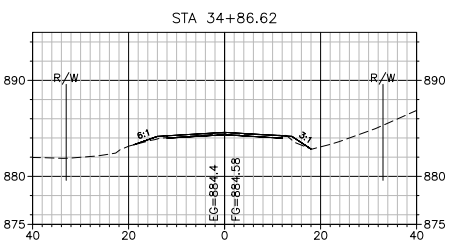
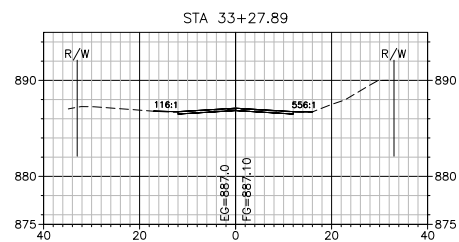
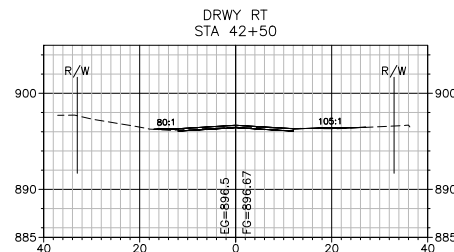
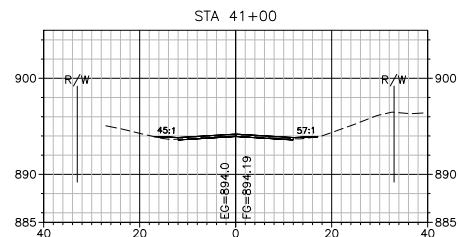
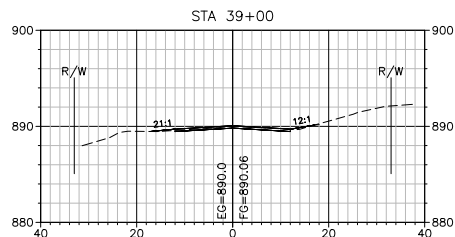
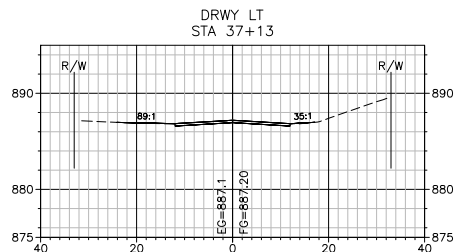
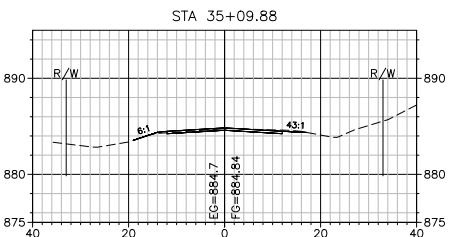
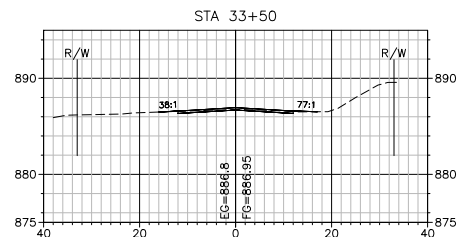
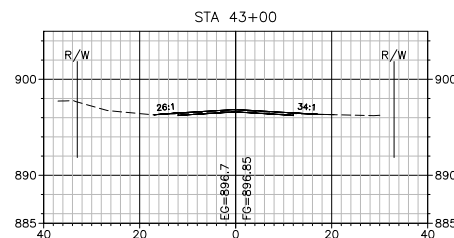
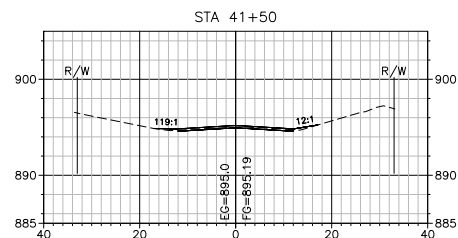
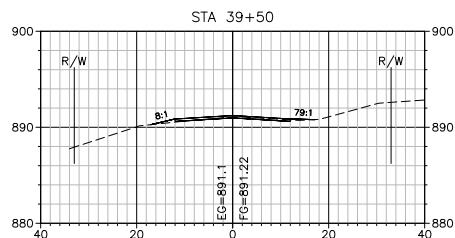
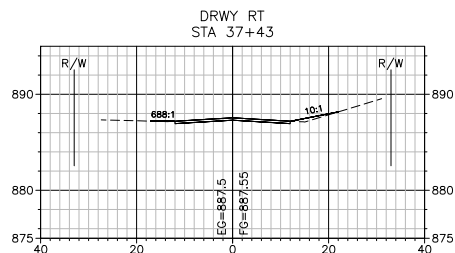
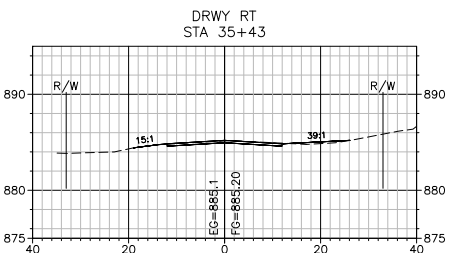
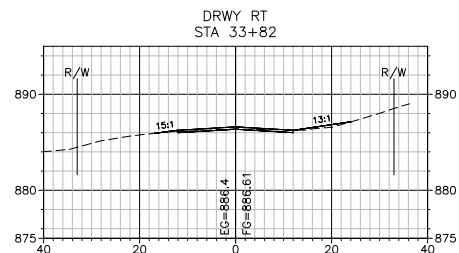
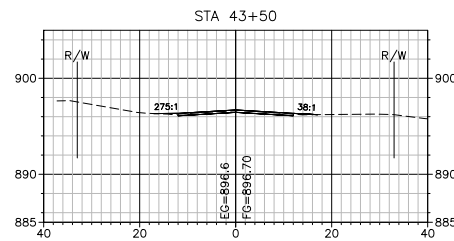
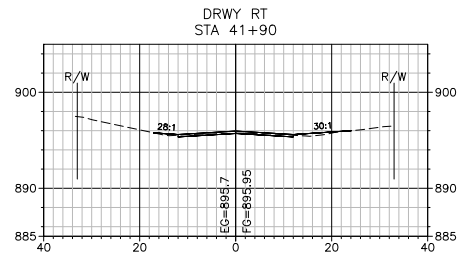
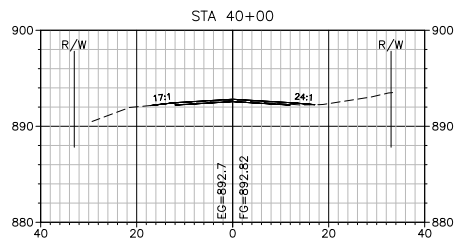
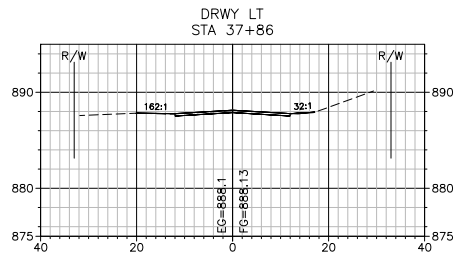
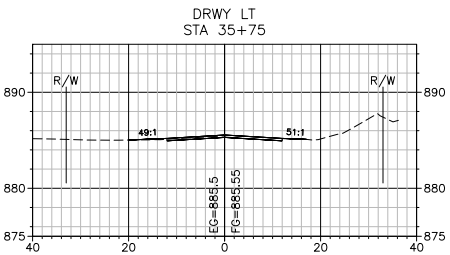
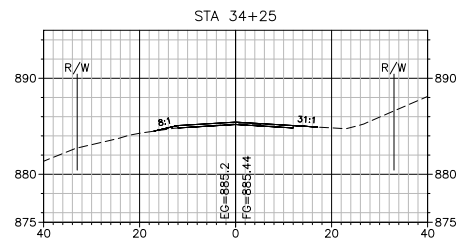
David D. Berkowitz

DAVID D. BERKOWITZ

THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.

DESIGNED
JLJ
DRAWN
AAK
CHECKED
DDB

NO.	DATE	BY	DESCRIPTION OF REVISIONS
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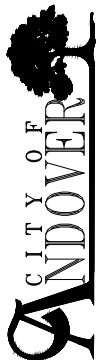


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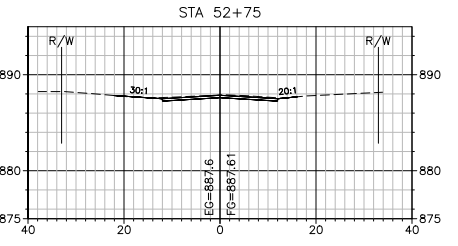
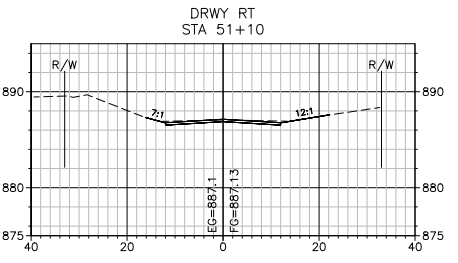
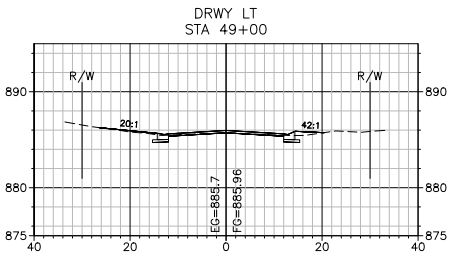
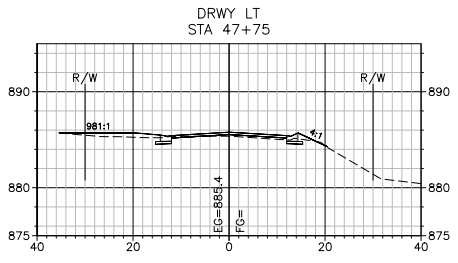
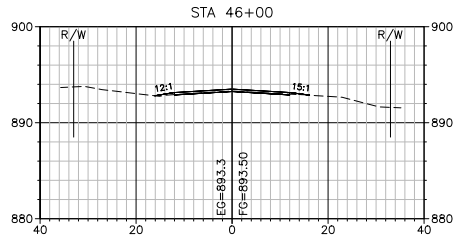
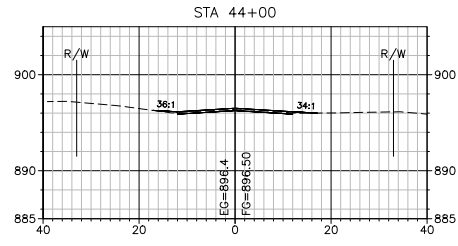
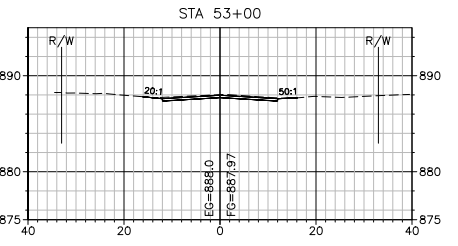
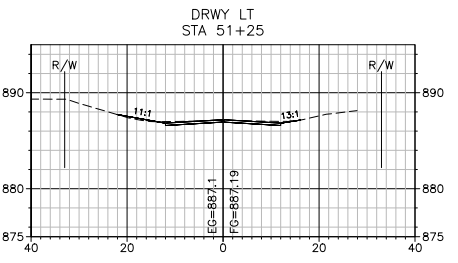
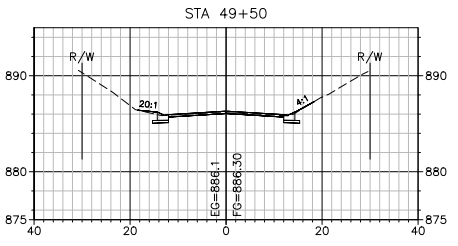
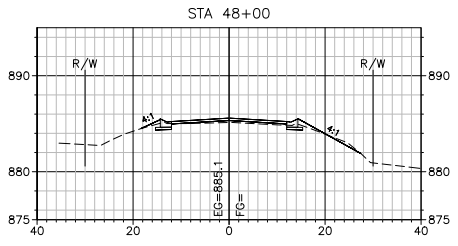
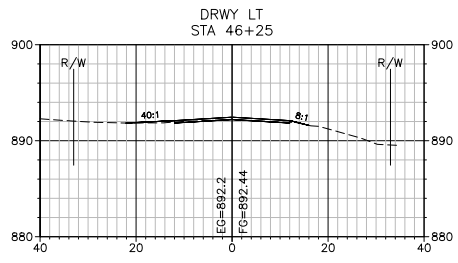
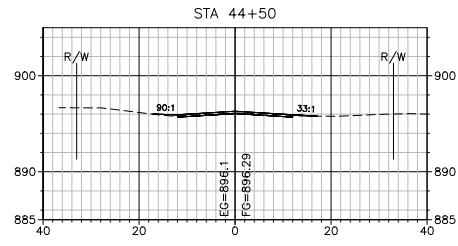
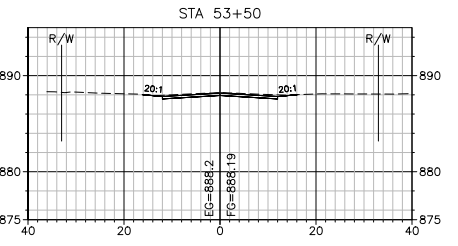
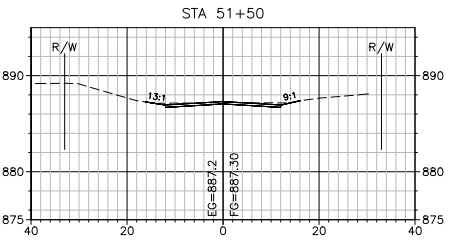
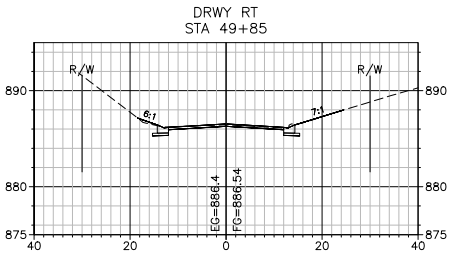
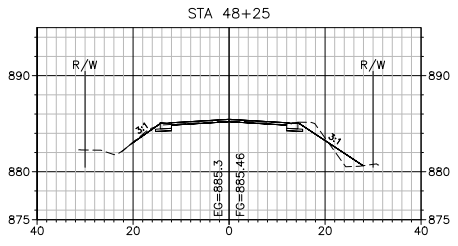
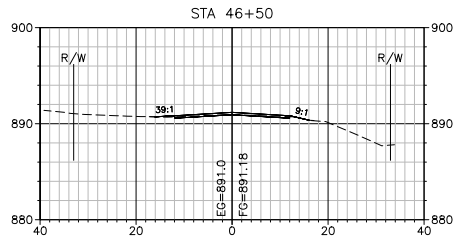
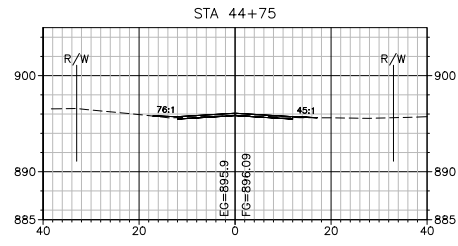
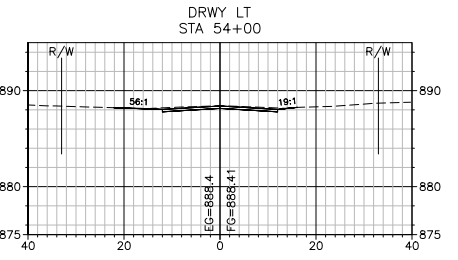
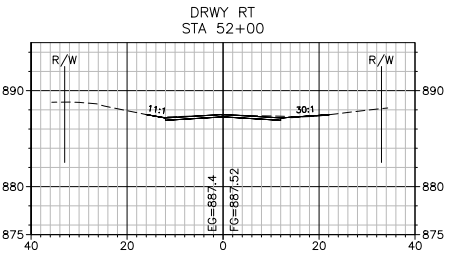
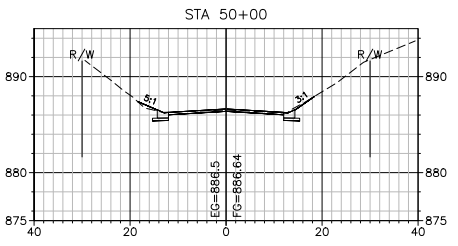
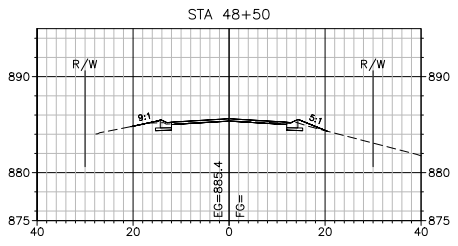
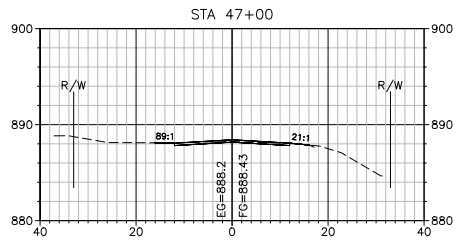
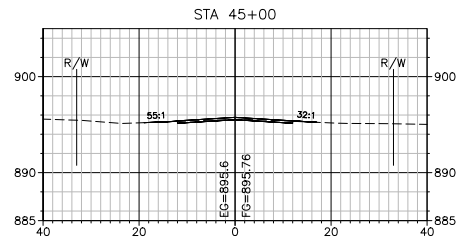
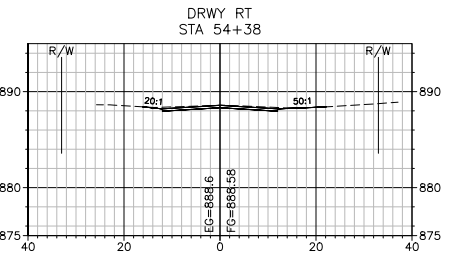
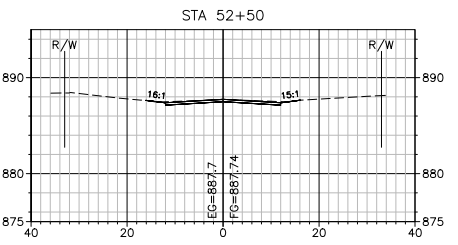
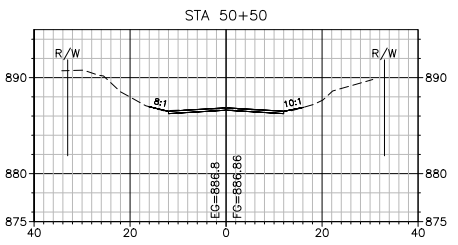
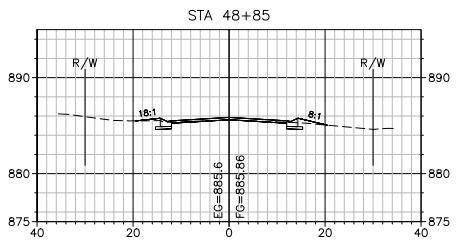
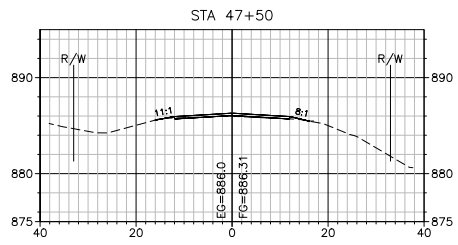
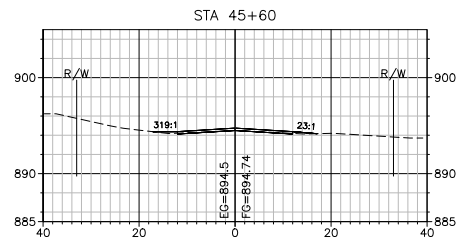
DESIGNER		BY		DATE		NO.	
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AAK							
CHECKED							
DDB							

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David D. Berkowitz
DAVID D. BERKOWITZ
REG. NO. 26757
DATE: MARCH 4, 2025

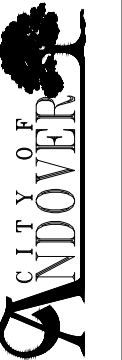


2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A



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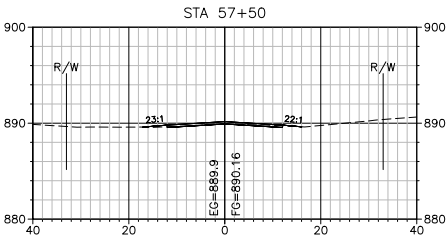
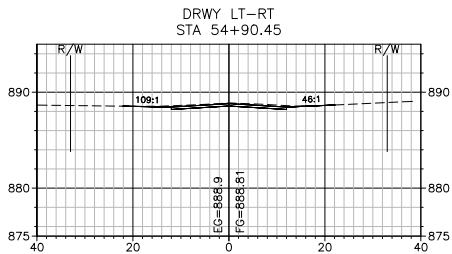
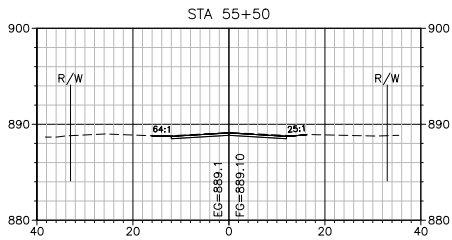
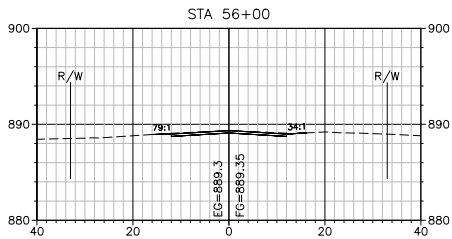
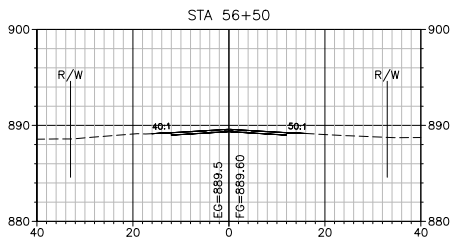
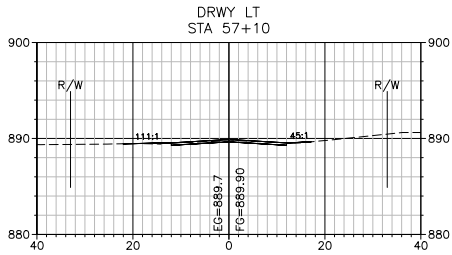
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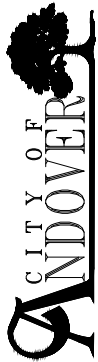
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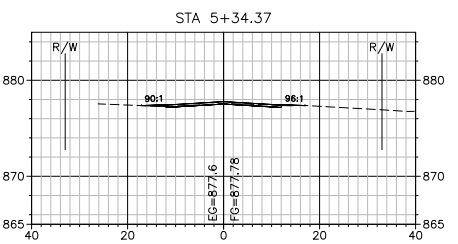
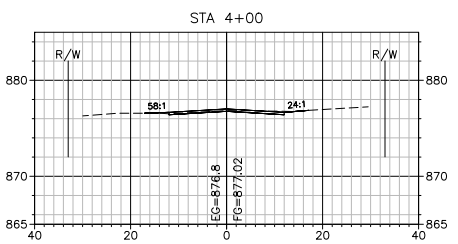
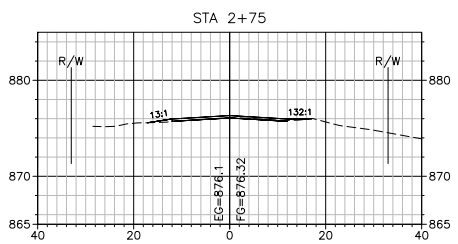
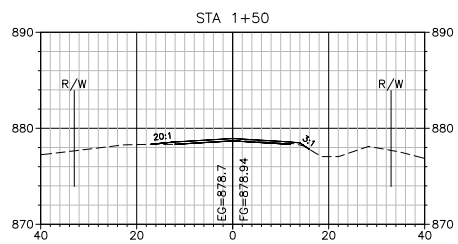
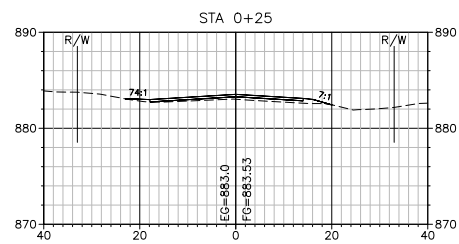
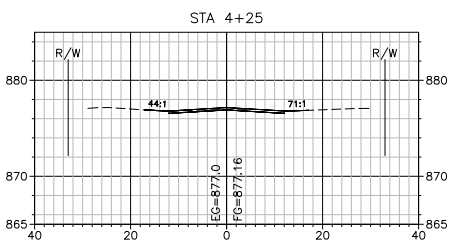
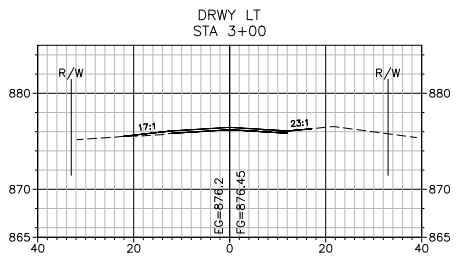
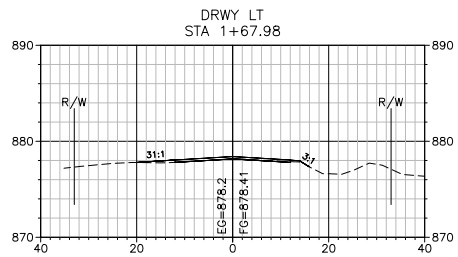
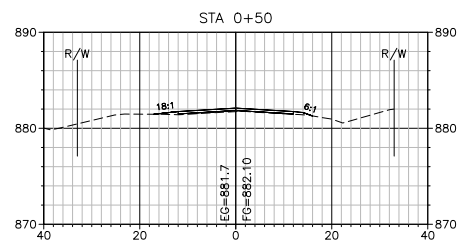
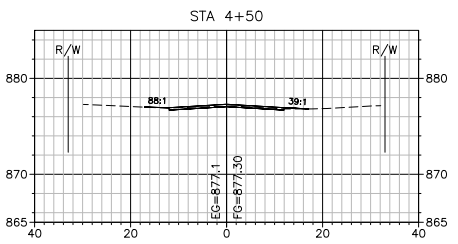
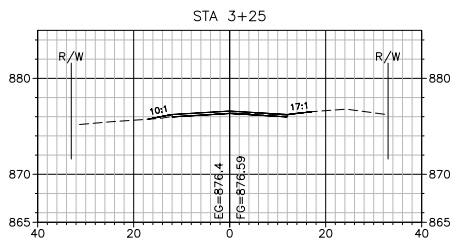
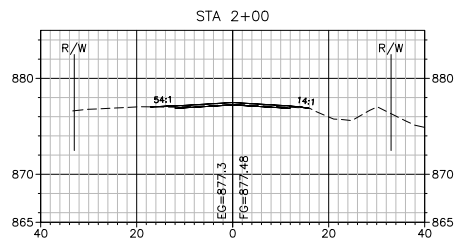
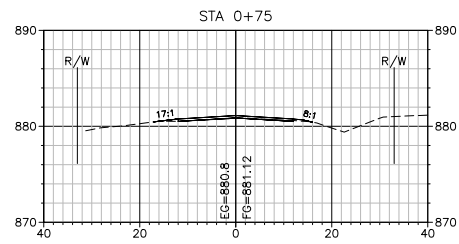
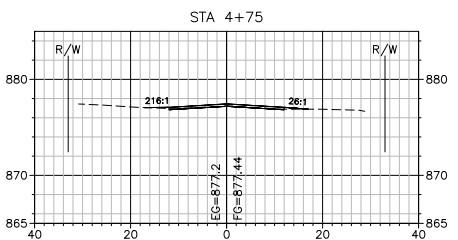
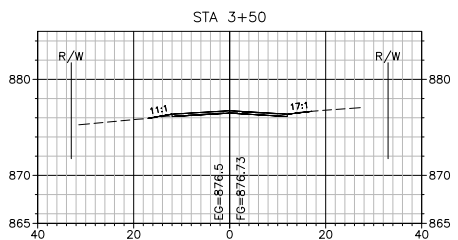
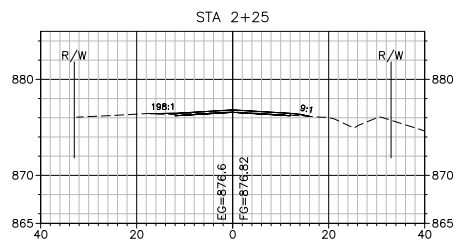
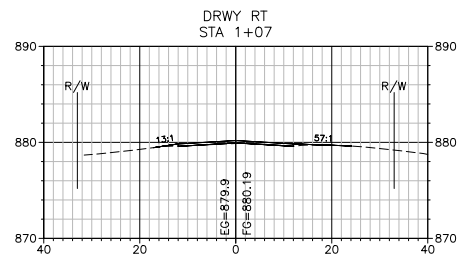
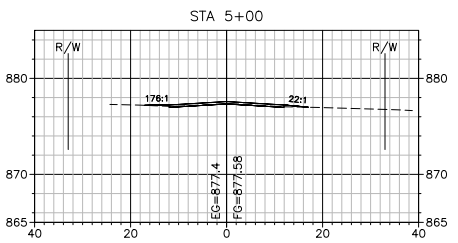
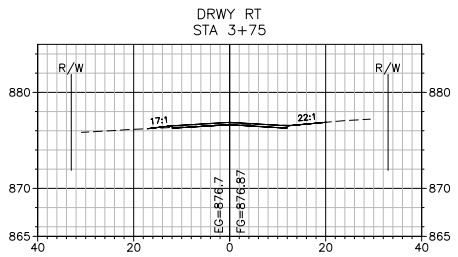
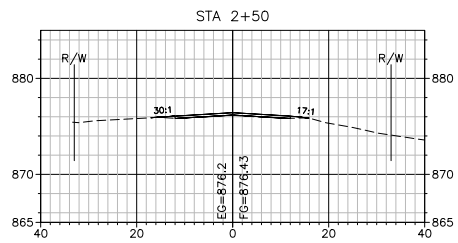
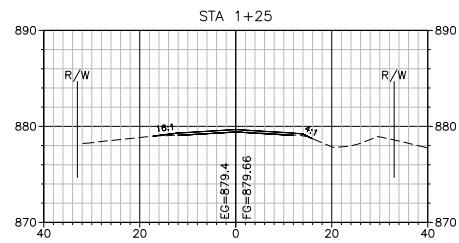
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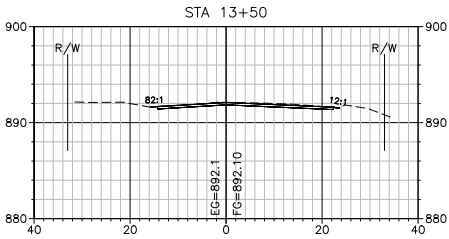
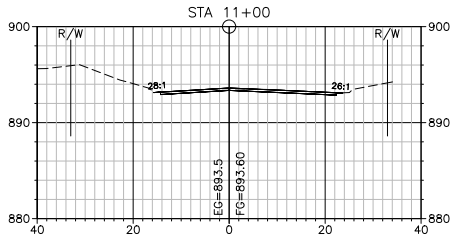
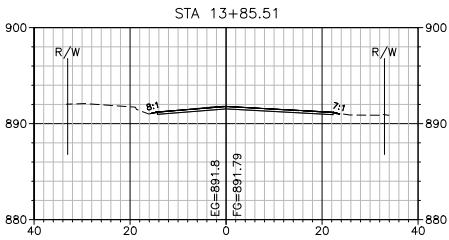
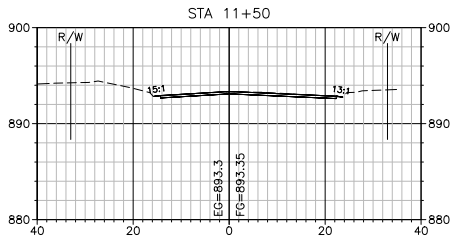
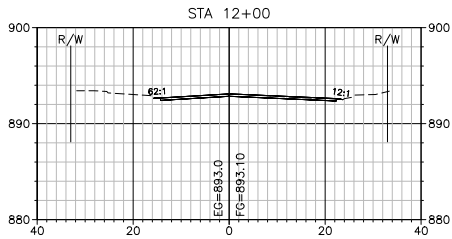
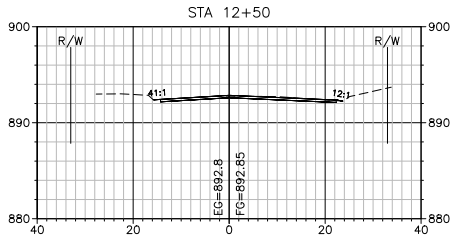
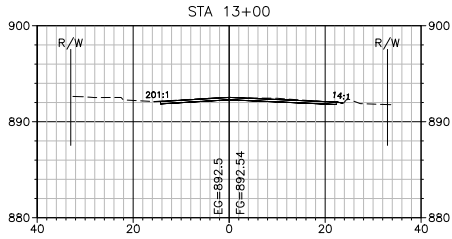
2025 STREET RECONSTRUCTION
XENIA / VINTAGE / 161ST
CITY PROJECT NO. 25-02A



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David D. Berkowitz
DAVID D. BERKOWITZ
REG. NO. 26737
DATE: MARCH 4, 2025

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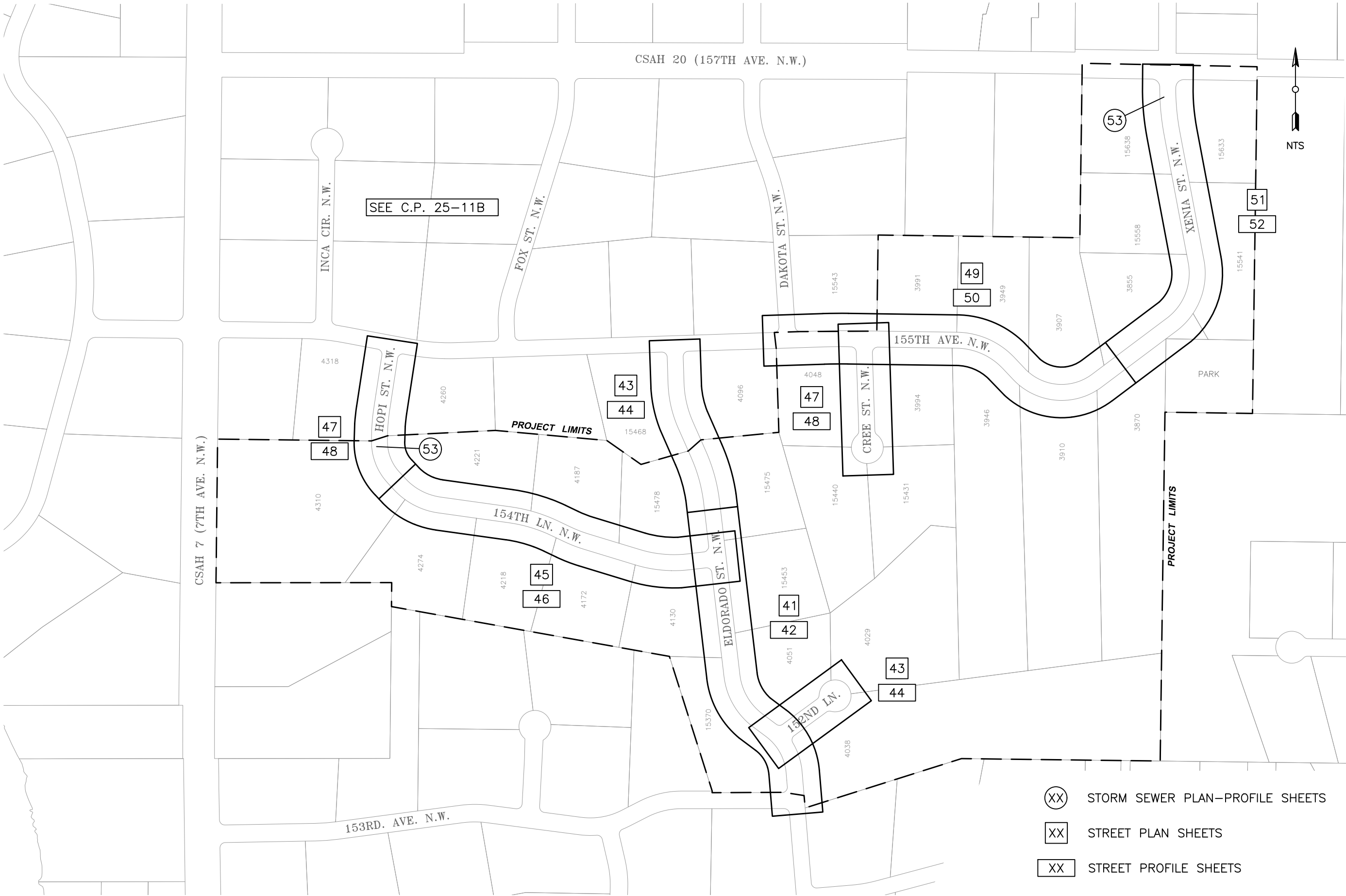
REG. NO. 26757



2025 STREET RECONSTRUCTION

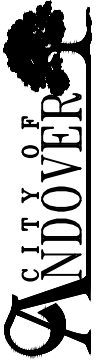
XENIA / VINTAGE / 161ST

CITY PROJECT NO. 25-02A



- (XX) STORM SEWER PLAN-PROFILE SHEETS
- [XX] STREET PLAN SHEETS
- [XX] STREET PROFILE SHEETS

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



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David D. Berkowitz
DAVID D. BERKOWITZ
REG. NO. 26757
DATE: MARCH 4, 2025

DESIGNED	NO.	DATE	BY	DESCRIPTION OF REVISIONS
JUL				
DRAWN				
AAK				
CHECKED				
DOB				

C.P. 25-02B Notes:

1. Item includes temporary plating of structure if necessary.
2. Regardless of depth.
3. Includes salvage and reinstall of existing mailbox, and temporary placement of mailbox in barrel at each existing location during construction.
4. For all excavation except subgrade excavation. Includes disposing excess or unsuitable material off-site. Utilize clean material for curb backfill.
5. For excavation beneath reclaimed aggregate base layer where profile grade lowered or where unsuitable material discovered.
Includes disposing unsuitable or excess material off-site.
6. For excavating/stockpiling/hauling reclaim material salvaged for subgrade exc. and areas with excess reclaim material. Dispose of excess off-site.
7. Only to be used if sufficient material not generated on-site for subgrade excavation backfill, if necessary.
8. Grade reclaim material from areas of excess to areas requiring material and/or under curb, fine grading, shape crown, and compacting reclaimed aggregate base.
9. For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
10. For material imported from outside project limits. Class 7 reclaim acceptable. Item includes furnishing, hauling, placing and compacting.
11. Includes loading/hauling/placing/grading/compacting salvaged reclaim material in areas of subgrade excavation.
12. For driveway aprons.
13. Only clean and televise RCP culverts. DIP culverts are not to be televised.
14. Based upon number or irrigation heads removed / replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged lines, heads, adjust systems, and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
15. Includes new concrete adjusting rings regardless of depth, Infi-Shield Gator Wrap (manholes), or wrap rings with geotextile fabric and concrete collar (catch basins).
16. For use if salvaged casting breaks or is unuseable or new casting required per plans.
17. Protect casting, touch up mud on existing concrete adjustment rings inside structure.
18. Item shall include regrouting all doghouses within structure. The "Each" item refers to each structure regardless of the number of doghouses in the structure.
19. Includes filling sump with redi-mix, pouring invert, constructing benches to 1/3 of pipe diameter. Includes regrouting doghouses as necessary.
20. Straw or wood fiber blanket is an acceptable alternative. Netting material shall be jute netting.
21. Only to be used if requested by engineer prior to or during site restoration.

2025 Street Reconstruction - (C.P. 25-02B)								
Storm Sewer Structure Table								
CB-MH #	FILL SUMP	DIAM (FT)	DEPTH (FT)	VOLUME (CY) (2)	DH MUD	RINGS MUD	CASTING	# EXIST. RINGS (1)
599	Y	4	1	0.7			Salvage/Reinstall	8
1066	Y	4	1	0.7		Y	-	?
2922		4	1.5	0.9	Y		Salvage/Reinstall	2
2923	Y	4	1	0.7			Remove/Replace	16
2924	Y	4	1	0.7			Salvage/Reinstall	6
2639	Y	4	1	0.7			Salvage/Reinstall	14
2640	Y	4	1	0.7			Salvage/Reinstall	10
2641	Y	4	1	0.7			Salvage/Reinstall	8
2642		4	1	0.7	Y		Salvage/Reinstall	12
2637	Y	4	1	0.7			Salvage/Reinstall	10
2638		4	1	0.7	Y		Salvage/Reinstall	12
2914		4	1		Y		Salvage/Reinstall	18
2913	Y	4	1	0.7			Salvage/Reinstall	16
2915	Y	4	1	0.7			Remove/Replace	14
2916		4	1	0.7	Y		Salvage/Reinstall	12
2917	Y	4	1	0.7			Salvage/Reinstall	12
2918	Y	4	1	0.7			Salvage/Reinstall	10
2919	Y	4	1	0.7			Salvage/Reinstall	12
2920		4	1	0.7	Y		Salvage/Reinstall	2
2921	Y	4	1	0.7			Salvage/Reinstall	2
2644	Y	4	1	0.7			Salvage/Reinstall	10
2645	REMOVE & REPLACE STRUCTURE						Salvage/Reinstall	
Total	15			14.2	6	1		

Notes 1): When installing casting, 6" and 1' rings shall be used so that there are no more than 5 rings per casting.
2) Mudding of doghouses incidental to filling CB sump.

STATEMENT OF ESTIMATED QUANTITIES

2025 STREET RECONSTRUCTION (C.P. 25-02B)					QUANTITIES	
Indian Meadows 4th & 5th Additions					EST. QUAN.	ACT. QUAN.
NOTES	ITEM NO.		DESCRIPTION	UNIT		
	1	2021.501	Mobilization	LS	1.00	
1	2	2104.502	Salvage Casting (Storm)	EA	19	
1	3	2104.502	Remove Casting (Storm)	EA	2	
	4	2104.502	Remove Drainage Structure	EA	1	
2	5	2104.503	Sawing Concrete Pavement (Full Depth)	LF	240	
2	6	2104.503	Sawing Bit Pavement (Full Depth)	LF	690	
	7	2104.503	Remove Curb & Gutter	LF	40	
	8	2104.503	Remove Pipe Culvert / Storm Sewer	LF	90	
2	9	2104.518	Remove Concrete Pavement	SF	2,880	
2	10	2104.518	Remove Bituminous Pavement	SF	6,730	
3	11	2104.602	Salvage and Reinstall Mailbox	EA	32	
4	12	2105.607	Common Excavation (EV)	CY	1,520	
5	13	2105.607	Subgrade Excavation (EV)	CY	90	
6	14	2105.607	Salvage Reclaim Material (LV)	CY	1,360	
7	15	2105.607	Select Granular Borrow (LV)	CY	120	
	16	2106.601	Dewatering	LS	1.00	
8	17	2112.519	Subgrade Preparation	RDST	64.2	
9	18	2130.523	Water	MGAL	50	
10	19	2211.509	Aggregate Base Class 5	TN	60	
11	20	2211.607	Place Salvaged Reclaim Material (CV)	CY	10	
	21	2215.504	Full Depth Reclamation	SY	19,420	
	22	2232.504	Mill Bituminous Surface (1.5")	SY	20	
	23	2357.506	Bituminous Material For Tack Coat	Gal	870	
	24	2360.509	Type SP 9.5 Wearing Course Mix (2,C)	TN	1,710	
12	25	2360.509	Type SP 9.5 Bit Mixture for Patching (2,B)	TN	90	
	26	2360.509	Type SP 12.5 Wearing Course Mixture (2,C)	TN	1,710	
	27	2501.502	18" CS Safety Apron and Grate Des 3128	EA	2	
	28	2501.503	18" Ductile Iron Pipe Culvert CL 52	LF	69	
	29	2503.503	15" RC Pipe Sewer Des 3006 Class V	LF	16	
	30	2503.602	Connect to Existing Storm Sewer	EA	2	
13	31	2503.603	Clean & Televise Storm Sewer and Culverts	LF	100	
14	32	2504.602	Irrigation System Modifications	EA	200	
15,16	33	2506.502	Casting Assembly - Storm	EA	3	
15	34	2506.502	Install Casting - Storm	EA	19	
	35	2506.602	Construct Drainage Structure, Type 405 - 48" Dia.	EA	1	
17	36	2506.602	Mud Existing Casting Rings	EA	1	
18	37	2506.602	Mud Doghouse	EA	6	
19	38	2506.607	Fill Catch Basin Sump-Pour Invert	CY	15	
	39	2531.503	Concrete Curb and Gutter Surmountable	LF	11,500	
	40	2531.504	6" Concrete Driveway Pavement	SY	320	
	41	2531.604	8" Concrete Valley Gutter	SY	25	
	42	2563.601	Traffic Control	LS	1.00	
	43	2573.502	Storm Drain Inlet Protection	EA	22	
	44	2573.503	Sediment Control Log Type Wood Chip	LF	1,000	
	45	2573.607	Rock Ditch Check - 1.5' Nom. Diameter	CY	20	
	46	2574.507	Loam Topsoil Borrow (LV)	CY	1,420	
	47	2574.508	Fertilizer Type 1	LB	340	
	48	2575.504	Sodding Type Lawn	SY	6,710	
20	49	2575.504	Rolled Erosion Prevention Category 20	SY	1,500	
21	50	2575.505	Weed Spraying	ACRE	0.30	
	51	2575.505	Seeding	ACRE	0.30	
	52	2575.508	Seed Mixture 25-151	LB	60	

DESIGNED
JUL

DRAWN
AAK

CHECKED
DOB

NO.

DATE

BY

DESCRIPTION OF REVISIONS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IT COMPLIES WITH ALL REQUIREMENTS OF THE LAWS OF THE STATE OF MINNESOTA.

David D. Bernowitz

DAVID D. BERGOWITZ

REG. NO. 66757

DATE: MARCH 4, 2025

CITY OF ANDOVER

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B

EARTH WORK TABLE

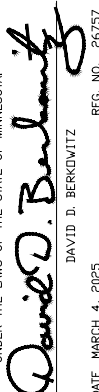
City Project 25-02B			
Aggregate Base Class 7 (Reclaim)		Roadway Length =	6,412 LF
Existing 3" +/- of bituminous and 4" +/- aggregate base based on road cores		Existing Roadway Area (26' b/b) =	19,412 SY
Reclaim 7" +/- deep			
Salvaged Reclaim (Salvage Reclaim Pay Item)			
Volume of salvaged reclaim material =	539 CY (CV)	Average 1" salvaged over entire project limits	
Volume narrowing bit section =	356 CY (CV)	4.5" salvaged going from 26' b/b bit to 22' wide bit section (keep 2" under curb)	
Volume in subgrade correction areas =	10 CY (CV)	6.5" salvage in area of subgrade correction, if any areas encountered	20 LF x 26' wide
Total Salvaged Reclaim =	905 CY (CV)	Available material to be re-used on-site or hauled out	
	1,360 CY (LV)	1.5 expansion factor assumed from CV to LV.	
Salvaged Reclaim Required (Place Salvaged Reclaim Pay Item)			
Volume in subgrade correction areas =	10 CY (EV)	5" minimum, if any areas encountered	
Total Place Salvage Reclaim =	10 CY (EV)		
Salvaged Reclaim Required (part of Subgrade Prep Pay item)			
Volume required at crown for 3% cross-slope =	163 CY (CV)	0.75" additional at road crown from 2.5% to 3% cross-slope entire project	
Volume under and behind curb =	106 CY (CV)	2" under curb, extend 1' behind curb	
Total =	270 CY (CV)		
Subgrade Excavation (Subgrade Exc. Pay Item)			
Volume of subgrade exc. material - correction areas =	90 CY (EV)	Assume 4' depth of correction excavation, if any areas encountered	
Total Subgrade Excavation =	90 CY (EV)	Dispose of unsuitable and excess material off-site	
Common Excavation (Common Exc. Pay Item)			
Volume of common exc. material road edge =	1,500 CY (EV)	Assume 3.5' x curb length x 1'. Dispose unsuitable off-site, use clean material for curb backfill	
Volume of common exc. material - culvert daylights =	20 CY (EV)	Excavate culvert aprons to drain as necessary	
Total Common Excvatation =	1,520 CY (EV)		
Topsoil Borrow	1,010 CY (CV)	Curb length x 3' x 0.75' deep. Utilize salvaged common ex. if suitable. 4" min. in all disturbed areas.	

EARTHWORK SUMMARY			
Reclaimed Aggregate Base Balance			
Volume of salvaged reclaim material available =	1,360 CY (LV)	1.5 expansion factor assumed from CV to LV.	
Volume of required reclaim material =	405 CY (LV)	Haul out and dispose of excess. Excess property of contractor	
Balance of reclaim material =	960 CY (LV)		
Common Excavation	1,520 CY (EV)	Dispose of unsuitable and excess material off-site. Suitable material can be used as curb backfill where necessary.	
Subgrade Excavation	90 CY (EV)	Dispose of unsuitable and excess material off-site. Suitable material can be used as curb backfill where necessary.	
Topsoil Borrow	1,010 CY (CV)		
	1,420 CY (LV)		
Select Granular Borrow	120 CY (LV)	For backfill of subgrade correction. Only used if sufficient material not available on-site.	
Excess Excavation Material to Dispose of Off-Site	1,208 CY (EV)	Estimated: 75% of Common excavation material plus 75% of subgrade excavation material	
	1,580 CY (LV)		

Swell Factors
EV to LV = 1.3
LV to CV = 1.4
1 CY Class 5 = 2 tons (147 #/CF)

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B

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DAVID D. BERKOVITZ

DATE: MARCH 4, 2025

REG. NO. 26737

DESIGNED
JUL

DRAWN
AAK

CHECKED
DDB

DESCRIPTION OF REVISIONS

BY

DATE

NO.

EARTH WORK SUMMARY

SHEET NO. 38 OF 95 SHEETS

GENERAL NOTES:

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
CITY OF ANDOVER 2025 UTILITY AND STREET CONSTRUCTION SPECIFICATIONS SHALL APPLY.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD)" AND THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL", NEWEST ADDITIONS.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR IS REQUIRED TO CALL GOPHER ONE CALL AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. (651-454-2000)

CONSTRUCTION NOTES:

ROAD WORK AHEAD SIGNS SHALL BE MAINTAINED AT ALL INTERSECTING ROADS TO THE PROJECT. TYPE B CHANNELIZERS SHALL BE USED IN ALL NECESSARY LOCATIONS. TRAIL CLOSED SIGNS ON TYPE III BARRICADES SHALL BE PLACED AT ALL LOCATIONS IMPACTED BY PEDESTRIAN RAMP/SIDEWALK/TRAIL IMPROVEMENTS.

CONSTRUCTION SHALL BE STAGED SUCH THAT TRAFFIC IS MAINTAINED AT ALL TIMES. CONTRACTOR SHALL USE FLAG PERSON, IF NEEDED (INCIDENTAL TO TRAFFIC CONTROL).

COMPACTION OF ALL BITUMINOUS MIXTURE SHALL BE BY THE "SPECIFIED DENSITY METHOD" EXCEPT FOR PATCHES AND TRAILS, WHICH SHALL BE BY THE "ORDINARY COMPACTION METHOD".

THE CONTRACTOR SHALL USE FLAG PERSON'S AND APPROPRIATE TRAFFIC CONTROL DEVICES TO DIRECT TRAFFIC AT INTERSECTING COUNTY ROADS. ALL TRAFFIC CONTROL MUST BE ACCEPTABLE TO THE ANOKA COUNTY HIGHWAY DEPARTMENT. CONTRACTOR SHALL APPLY FOR A PERMIT FOR WORKING WITHIN ANOKA COUNTY RIGHT OF WAY. PROVIDE A COPY OF COUNTY PERMIT TO CITY INSPECTOR.

ABSENT A ROAD SCLOSURE, RECONSTRUCTION SHALL BE PERFORMED IN A MANNER TO ALLOW LOCAL TRAFFIC TO BE MAINTAINED TO A MINIMUM OF HALF THE ROADWAY WIDTH. THE CONTRACTOR SHALL USE FLAG PERSON'S TO DIRECT TRAFFIC AS NEEDED.

CONTRACTOR SHALL PROVIDE 3 DAY NOTICE PRIOR TO POTENTIAL ROAD CLOSURE FOR UNDERGROUND UTILITY CONSTRUCTION. TYPE 3 BARRICADES WITH "ROAD CLOSED" SHALL BE INSTALLED ON BOTH SIDES OF UTILITY CONSTRUCTION ACTIVITY. STAGE CONSTRUCTION TO ALLOW FOR LOCAL RESIDENT ACCESS AS NEEDED.

DURING ALL ASPECTS OF CONSTRUCTION DRIVEWAYS SHALL BE RAMPED WITH GRAVEL IN A TIMELY MANNER TO PROVIDE RESIDENTS ACCESS. UPON THREE DAYS OF CURE, CONC. CURBING AT DRIVEWAYS SHALL BE BACKFILLED & RAMPED WITH GRAVEL TO PROVIDE ACCESS.

DURING THE CONSTRUCTION OF CONC. CURB & DRIVEWAYS, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER TO NOTIFY RESIDENTS OF PENDING CONSTRUCTION ACTIVITY. A THREE DAY NOTICE IS REQUIRED PRIOR TO POURING CONC. CURB & DRIVEWAYS. IMMEDIATELY UPON COMPLETION THE ROADWAY SHALL BE GRADED TO ALLOW RESIDENTS TO PARK ON STREET ADJACENT TO THEIR PROPERTY.

CONCRETE CURBING SHALL BE KNOCKED DOWN AT ALL DRIVEWAY ENTRANCES (INCIDENTAL). CONSTRUCT B618 C&G ON ALL RADII, CATCH BASIN LOCATIONS & ADDITIONAL LOCATIONS AS NOTED ON PLAN. (PAID AS SURMOUNTABLE C&G).

EXISTING MAILBOXES SHALL BE SALVAGED AND REINSTALLED. DURING CONSTRUCTION TEMPORARY MAILBOXES SHALL BE PLACED NEAR THE ORIGINAL MAILBOX LOCATION. THE TEMPORARY MAILBOXES SHALL BE MOUNTED ON BARRELS TO BE PORTABLE. PROPERTY OWNER MAY SUPPLY NEW POST AND/OR BOX TO BE PLACED IN THE ORIGINAL LOCATION.

RESIDENTS WILL BE ASKED TO MARK SPRINKLER HEADS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SYSTEMS. WHERE BOULEVARD IRRIGATION MODIFICATIONS ARE REQUIRED THE IRRIGATION LINES/HEADS SHALL BE REMOVED & DISPOSED. REMAINING LINES SHALL BE PLUGGED & MARKED. ALL REPLACED IRRIGATION LINES/HEADS SHALL BE WITH NEW COMMERCIAL GRADE MATERIALS. CONTRACTOR WILL BE PAID A UNIT PER HEAD REPLACED. EXISTING LOCATIONS SHOWN ON PLANS ARE ONLY SCHEMATIC. ALL WORK SHALL BE BY AN IRRIGATION CONTRACTOR LICENSED TO WORK IN THE CITY OF ANDOVER.

THE CONTRACTOR SHALL PROTECT, SALVAGE AND REPAIR ALL EXISTING LANDSCAPING IN KIND. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE FOLLOWING CONSTRUCTION ITEM'S SHALL OCCUR PRIOR TO COMMENCING THE RECLAIMING OPERATION. INSTALL TRAFFIC CONTROL, REMOVE STREET SIGN'S (CITY), INSTALL TEMP. EROSION CONTROL MEASURES, IDENTIFY & CAP IRRIGATION SYSTEMS, SALVAGE LANDSCAPING, REMOVE EX. & INSTALL TEMP. MAILBOX'S, EXCAVATE BOULEVARD MATERIAL PER TYPICAL SECTION.

EXISTING DRIVEWAYS SHALL BE SAWCUT AS DIRECTED BY ENGINEER, REMOVED AND DISPOSED OF OFF SITE . BITUMINOUS AND CONCRETE DRIVEWAYS SHALL BE REPLACED IN KIND. GRAVEL DRIVEWAYS SHALL BE REPLACED WITH A 10-15' BITUMINOUS APRON. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY SHALL BE SAWCUT AND REPAIRED IN KIND AT THE CONTRACTORS EXPENSE.

WHERE SUBGRADE EXCAVATION UTILITY WORK OCCURS WITHIN THE ROADWAY THE RECLAIMED BASE SHALL BE SALVAGED & REPLACED PER THE TYPICAL SECTION (INCIDENTAL). THIS WORKSHALL BE DONE IN A MANNER SO RECLAIMED BASE IS NOT CONTAMINATED WITH SPOIL MATERIAL. COMPACTION OF THE RECLAIMED BASE MATERIAL SHALL BE ACHIEVED BY THE PENETRATION INDEX METHOD IN ACCORDANCE WITH MNDOT 2211.3C3. THE BOTTOM OF THE SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD"

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS TO BACKFILL PROPOSED CURB & GUTTERS. ANY EXCESS MATERIAL, OR MATERIAL WITH DEBRIS / SOD CHUCKS SHALL BE DISPOSED OF OFF-SITE.

ALL DISTURBED AREAS SHALL BE BACKFILLED WITH SALVAGED TOPSOIL, IF ANY. DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, & SOD. DISTURBED AREAS ADJACENT TO FLARED END SECTIONS, AREAS OF CHANNELIZED RUN OFF, AND UNMAINTAINED AREA'S SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, & EROSION CONTROL BLANKET CATEGORY 30. ALL RESTORATION SHALL OCCUR WITHIN 7 DAYS OF GRADING COMPLETION. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY (INCIDENTAL). RESTORATION WORK SHALL BE COMPLETED ADJACENT TO THE ROADWAY AFTER PAVING WEARING COURSE.

ALL EXISTING SIGNS SHALL BE REMOVED AND REPLACED BY THE ANDOVER SIGN DEPARTMENT UNLESS CALLED OUT OTHERWISE IN THE PLANS. COORDINATE WITH MINIMUM 48 HOUR NOTICE WITH ENGINEER IN FIELD.

CONCRETE WASHOUT SHALL BE CONTAINED WITHIN CONCRETE TRUCKS, NOT DISPOSED OF ON-SITE.

CONTRACTOR SHALL SWEEP ALL MATERIAL OFF ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY, DAILY AS NECESSARY (INCIDENTAL).

CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES (INCIDENTAL).

CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE VEGETATION IS RE-ESTABLISHED (INCIDENTAL).

REFER TO SWPPP IN PROJECT SPECIFICATION FOR ADDITIONAL CONSTRUCTION/EROSION CONTROL REQUIREMENTS.

THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL MATERIAL, IF ANY, FOR RE-USE (LITTLE IS EXPECTED). RE-USED TOPSOIL SHALL BE CLEAN WITH NO SOD CHUNKS / EXISTING VEGETATION. TOPSOIL STRIPING, IF ANY, SHALL BE CONSIDERED INCIDENTAL.

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS. MATERIAL FOR BACKFILL SHALL BE FREE OF DEBRIS. EXCESS MATERIAL GENERATED, IF ANY, SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.

WHEN CONNECTING NEW PAVED SURFACING TO ANY IN-PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE PAVEMENTS OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN AT 2(V):1(H) SLOPE TO THE TOP OF THE SUBGRADE.

EXCAVATION AND DISPOSAL OF SOIL/TURF MATERIAL SHALL BE INCIDENTAL TO REMOVAL PAY ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MINIMIZE EXCAVATION AND DISTURBANCE ALONG THE PROJECT CORRIDOR.

OFFSET CURB AND GUTTER AT CATCHBAISIN LOCATIONS. BUILD UP B6 CURB AROUND CURB BOX. INCIDENTAL TO CURB AND GUTTER PAY ITEM.

DESCRIPTION OF REVISIONS		BY	DATE	NO.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Berkowitz

DAVID D. BERKOWITZ

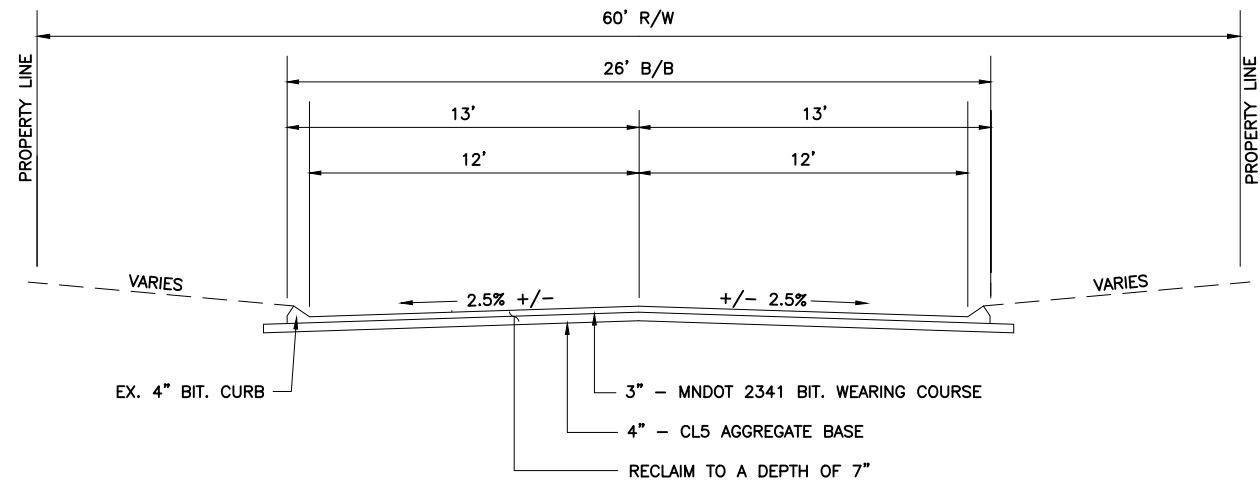
DATE: MARCH 4, 2025

REG. NO. 267571

DESIGNED	JUL
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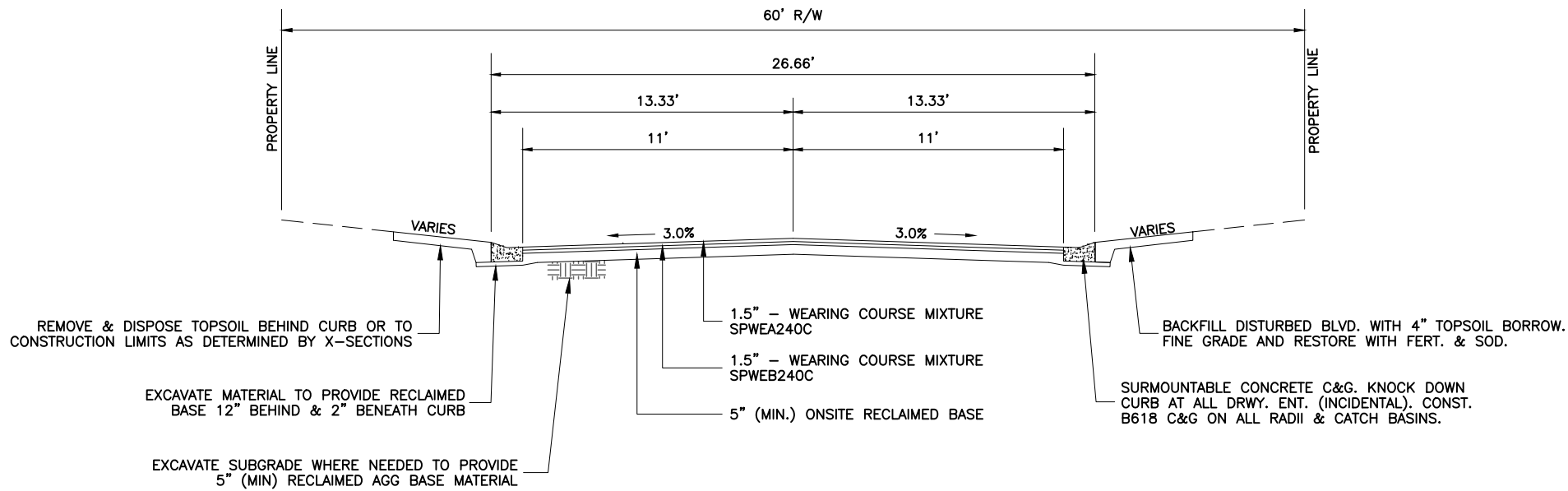


2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



NOTE: PROJECTS 25-02A & 25-02B SHALL BE STAGED SO EXCESS RECLAIM FROM 25-02A CAN BE HAULED, PLACED AND USED FOR CURB GRADE ON 25-02B.

EXISTING TYPICAL SECTION
INDIAN MEADOWS 4TH & 5TH ADDITION



PROPOSED TYPICAL SECTION
INDIAN MEADOWS 4TH & 5TH ADDITION

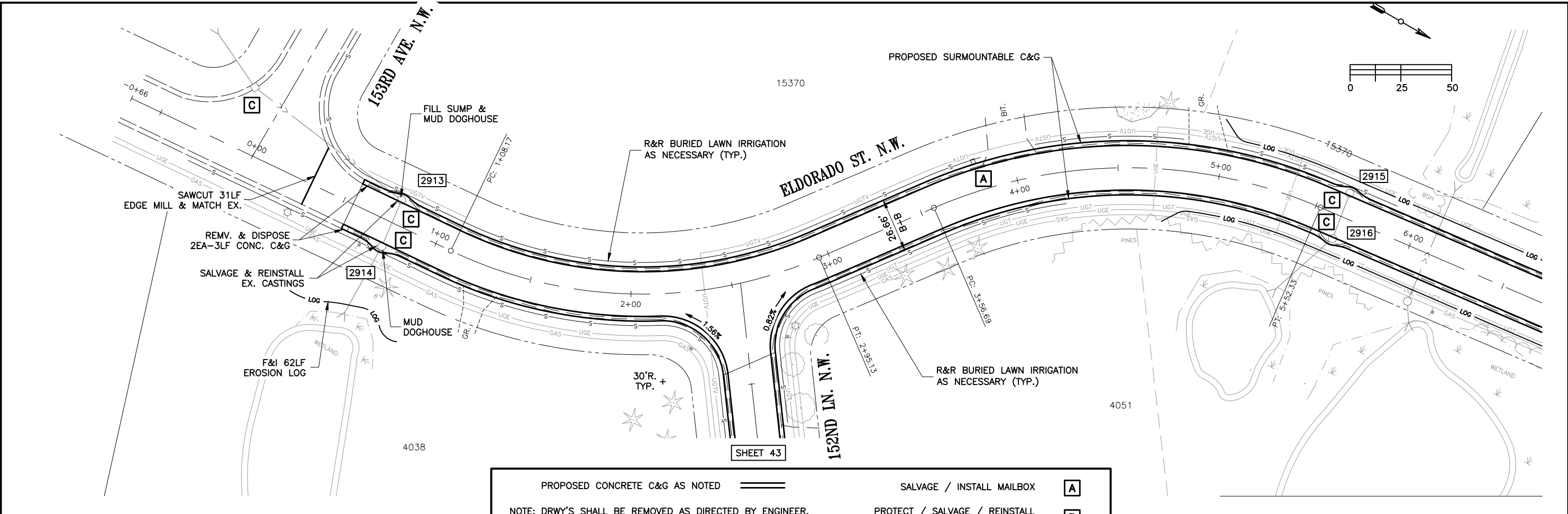
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David D. Berkowitz
DAVID D. BERKOWITZ
REG. NO. 26737
DATE MARCH 4, 2025



2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



PROPOSED CONCRETE C&G AS NOTED

NOTE: DRWY'S SHALL BE REMOVED AS DIRECTED BY ENGINEER.
BIT. & CONC. DRWY'S SHALL BE REPLACED IN KIND.
GRAVEL DRWY'S SHALL BE REPLACED WITH A BIT. 15' APRON.
FG DRWY GRADES < THAN 2.0% ARE NOTED ON PLAN.

SALVAGE / INSTALL MAILBOX

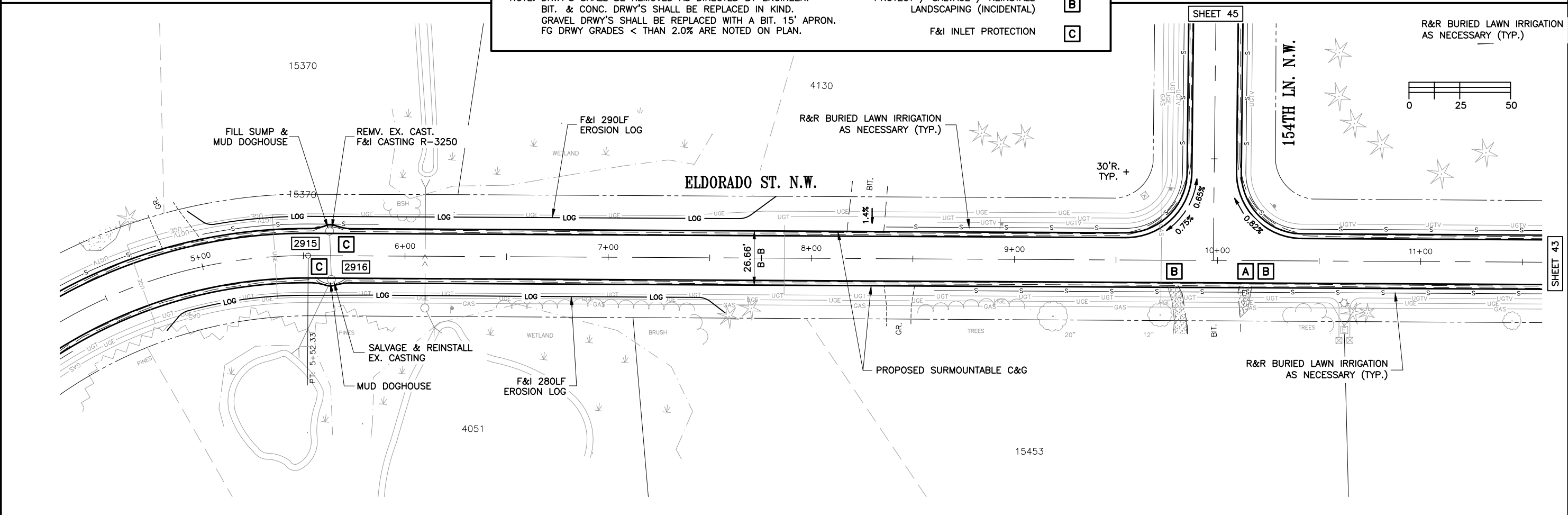
PROTECT / SALVAGE / REINSTALL LANDSCAPING (INCIDENTAL)

F&I INLET PROTECTION

A

B

C



DESCRIPTION OF REVISIONS			
NO.	DATE	BY	
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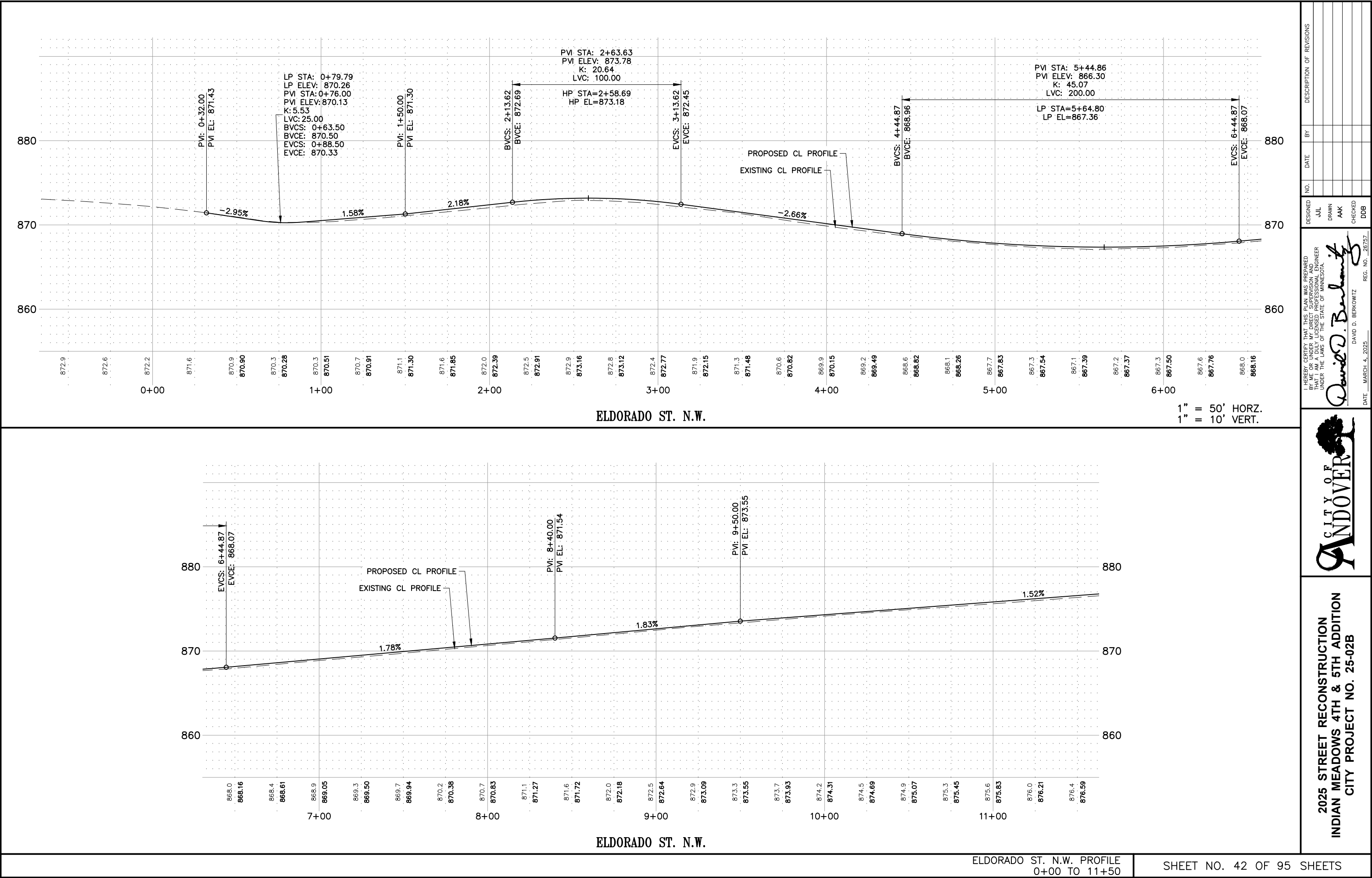
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David D. Berkowitz

DAVID D. BERKOWITZ
DATE: MARCH 4, 2025
REG. NO. 26757

CITY OF ANDOVER

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B

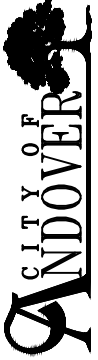


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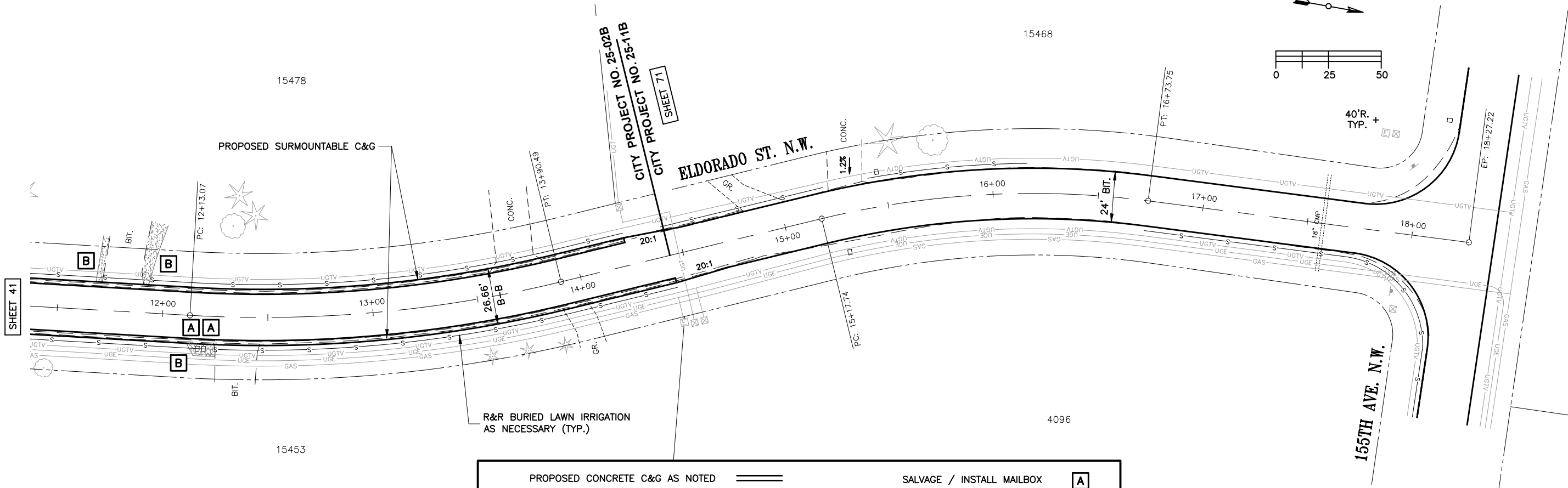
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CITY OF ANDOVER

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
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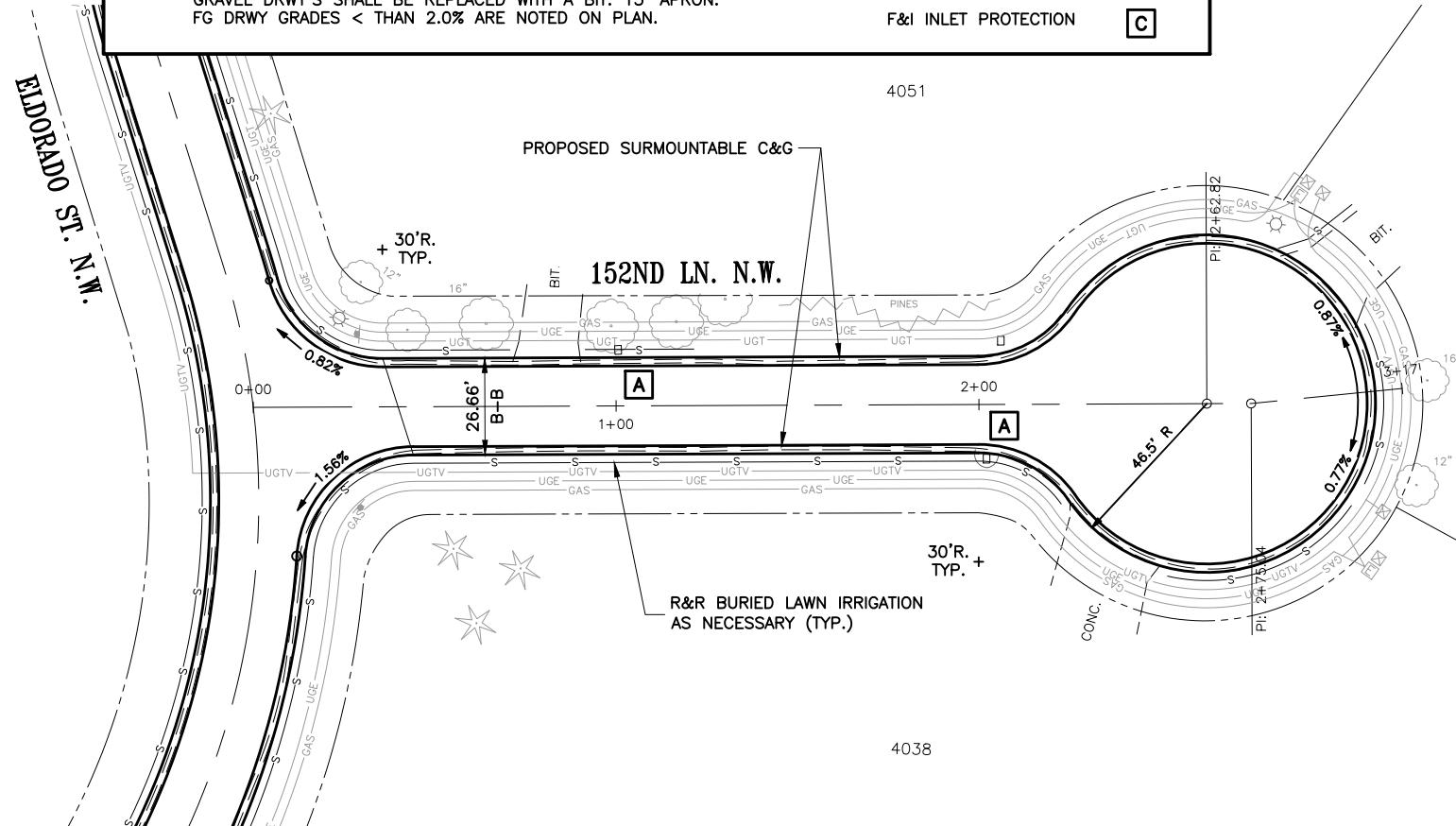
SHEET 41



PROPOSED CONCRETE C&G AS NOTED

NOTE: DRWY'S SHALL BE REMOVED AS DIRECTED BY ENGINEER.
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GRAVEL DRWY'S SHALL BE REPLACED WITH A BIT. 15' APRON.
FG DRWY GRADES < THAN 2.0% ARE NOTED ON PLAN.

SALVAGE / INSTALL MAILBOX [A]
PROTECT / SALVAGE / REINSTALL LANDSCAPING (INCIDENTAL) [B]
F&I INLET PROTECTION [C]



SHEET 41

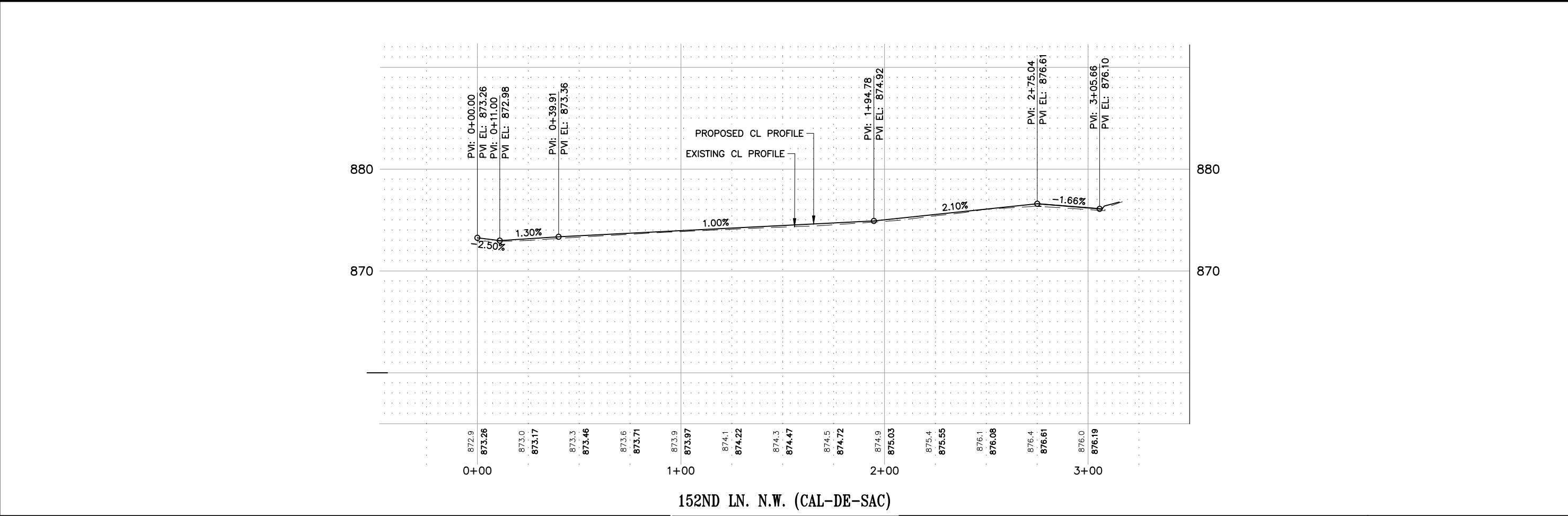
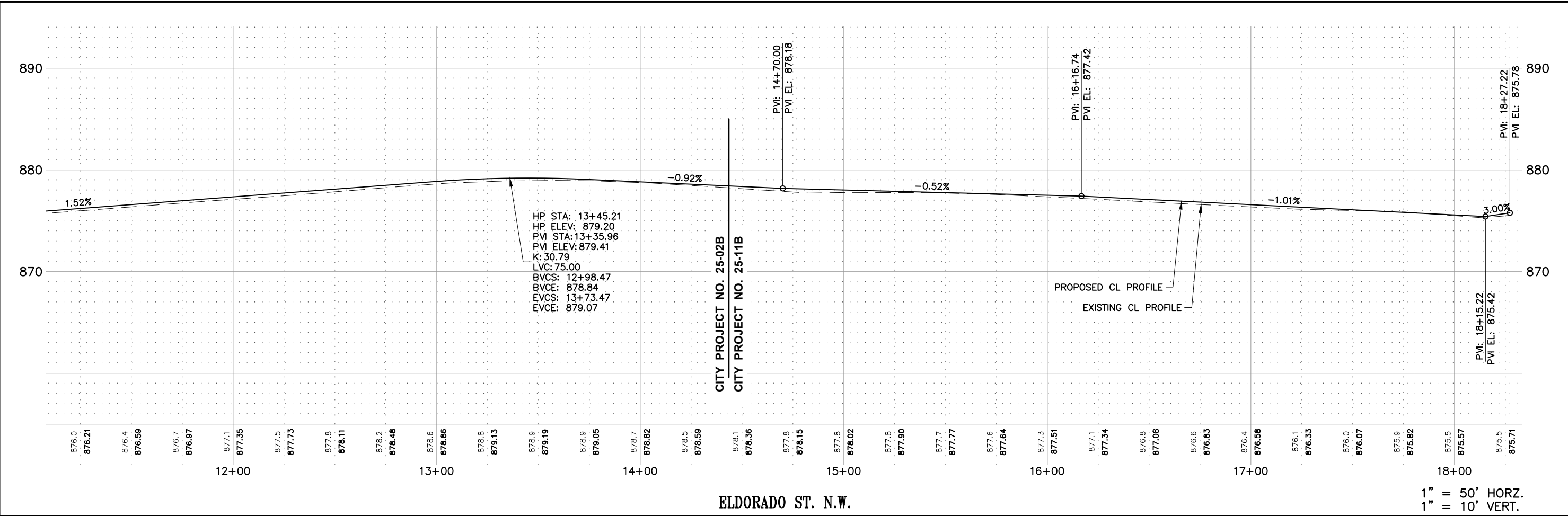
2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
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CITY OF
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DAVID D. BERKOWITZ
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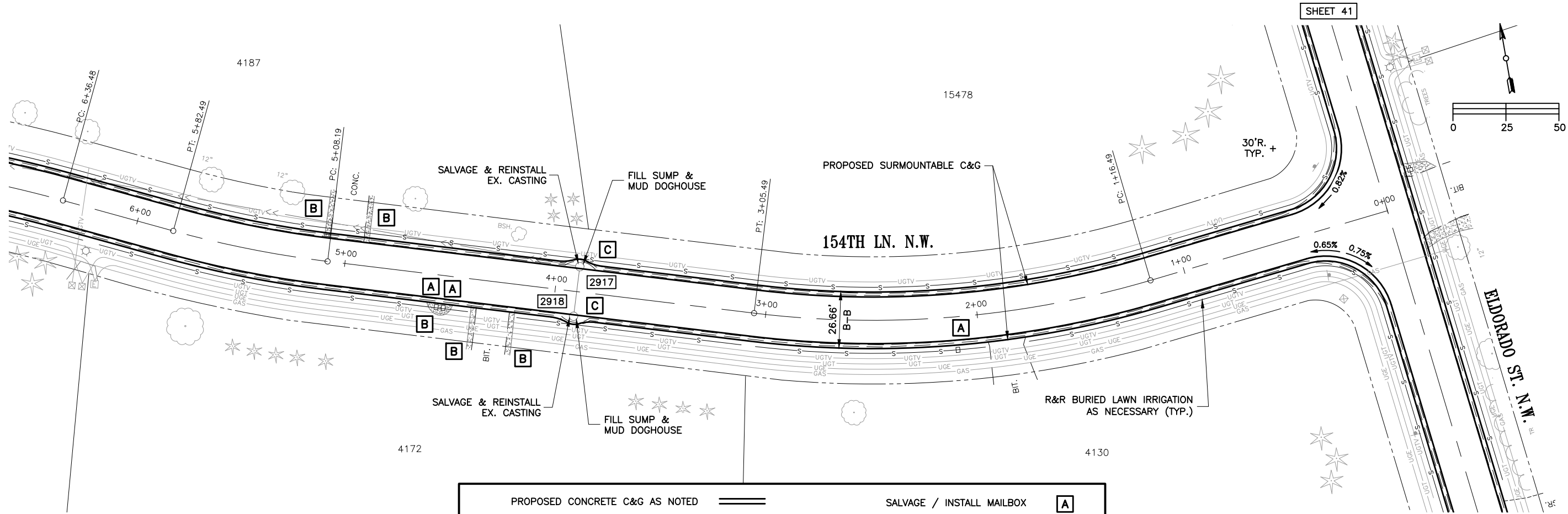
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SALVAGE / INSTALL MAILBOX

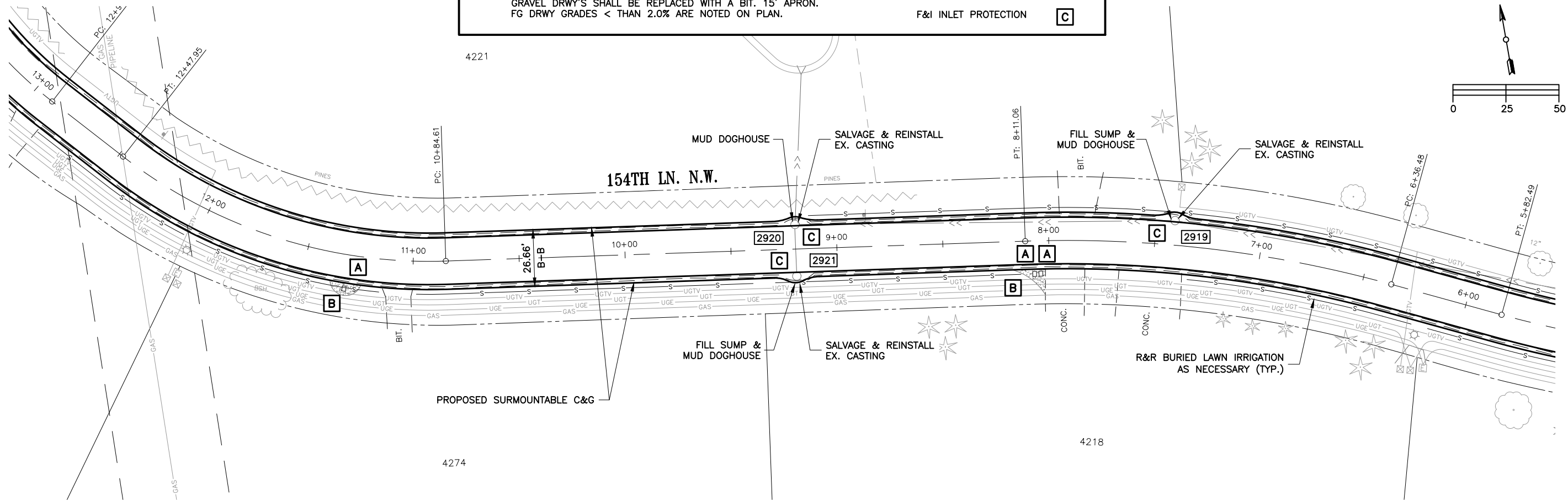
PROTECT / SALVAGE / REINSTALL
LANDSCAPING (INCIDENTAL)

F&I INLET PROTECTION

A

B

C



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CHECKED
DOB

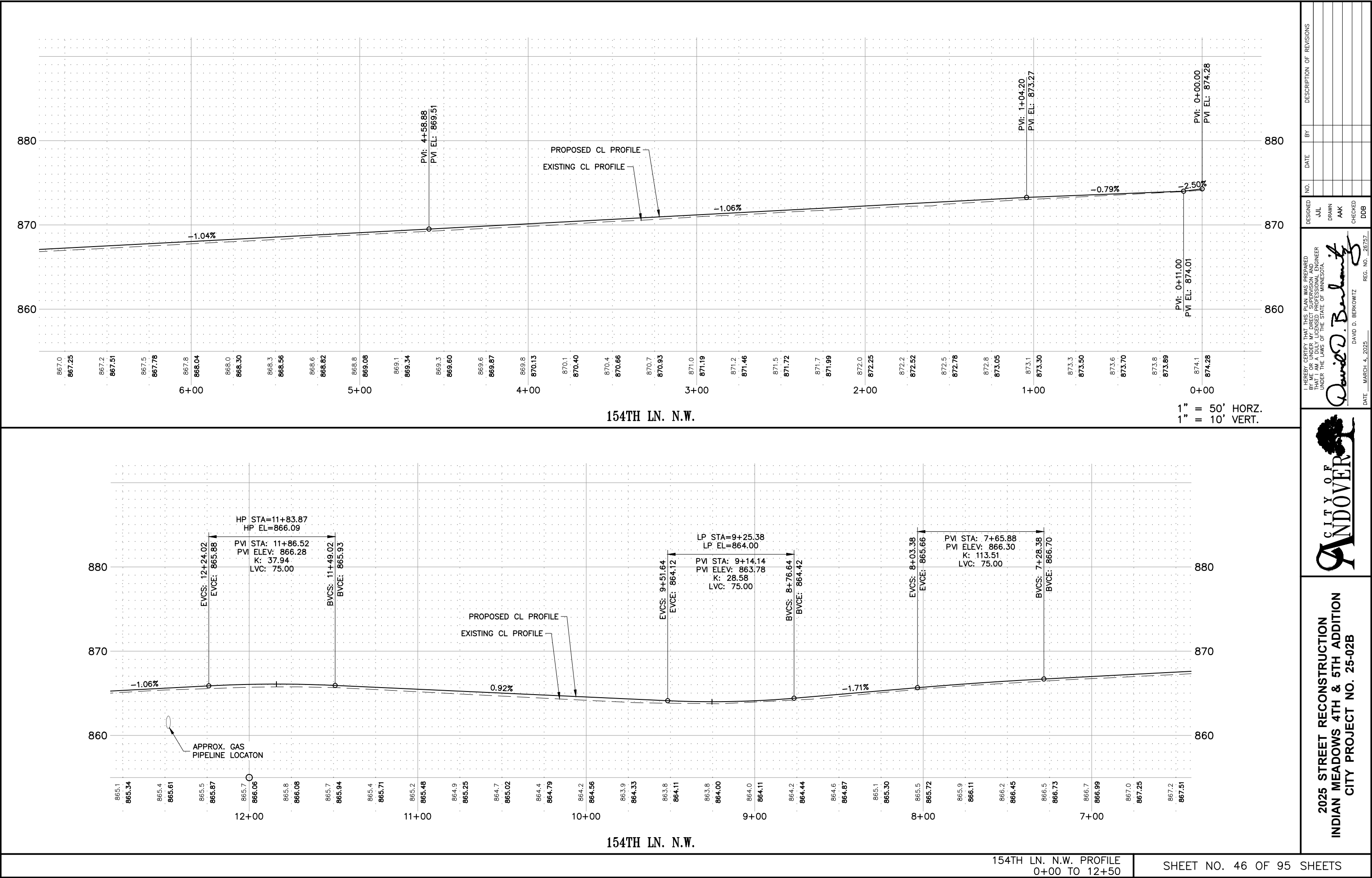
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Berkowitz

DAVID D. BERKOWITZ
DATE: MARCH 4, 2025
REG. NO. 26757

CITY OF
ANDOVER

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



DESIGNED	NO.	DATE	BY	DESCRIPTION OF REVISIONS
JUL				
DRAWN				
AAK				
CHECKED				
DDB				

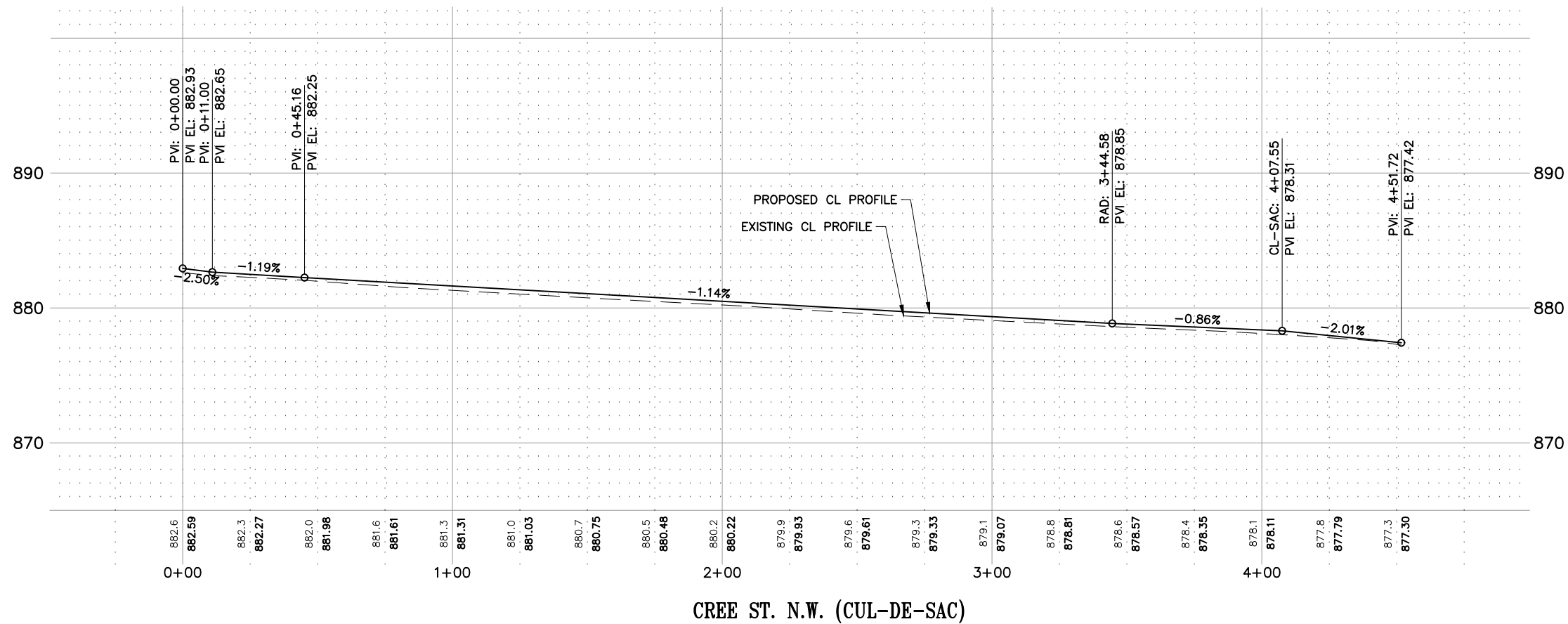
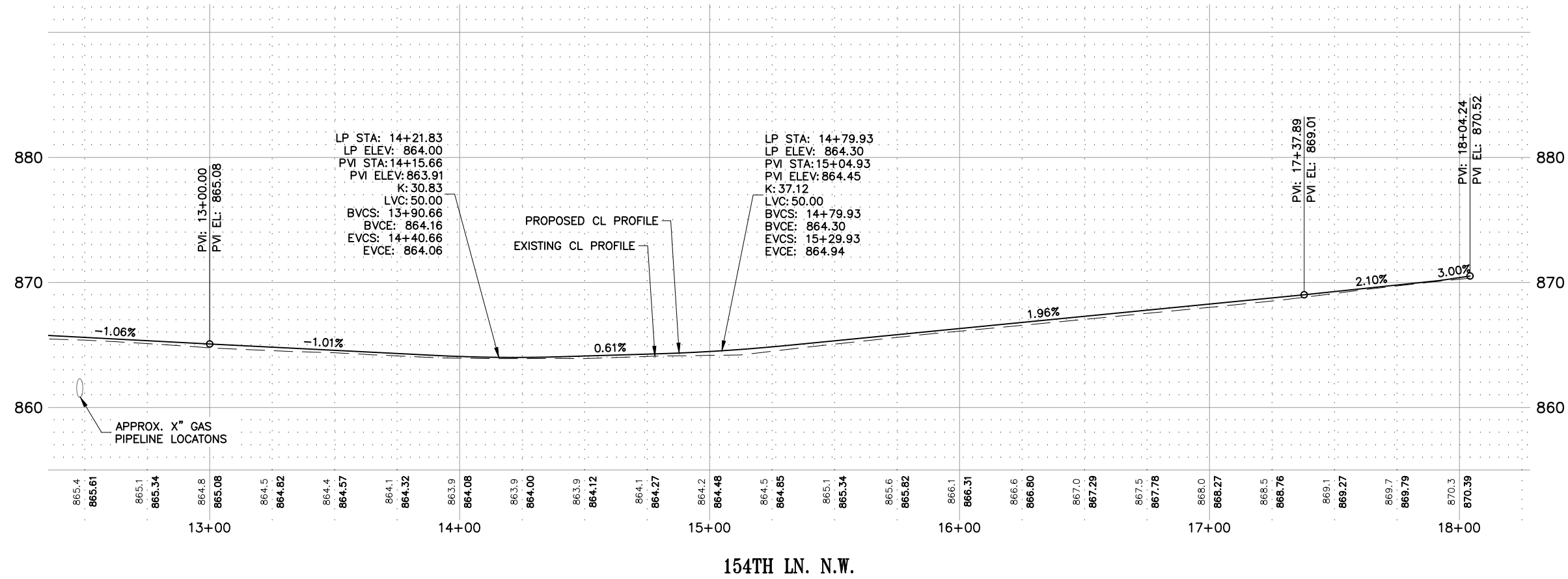
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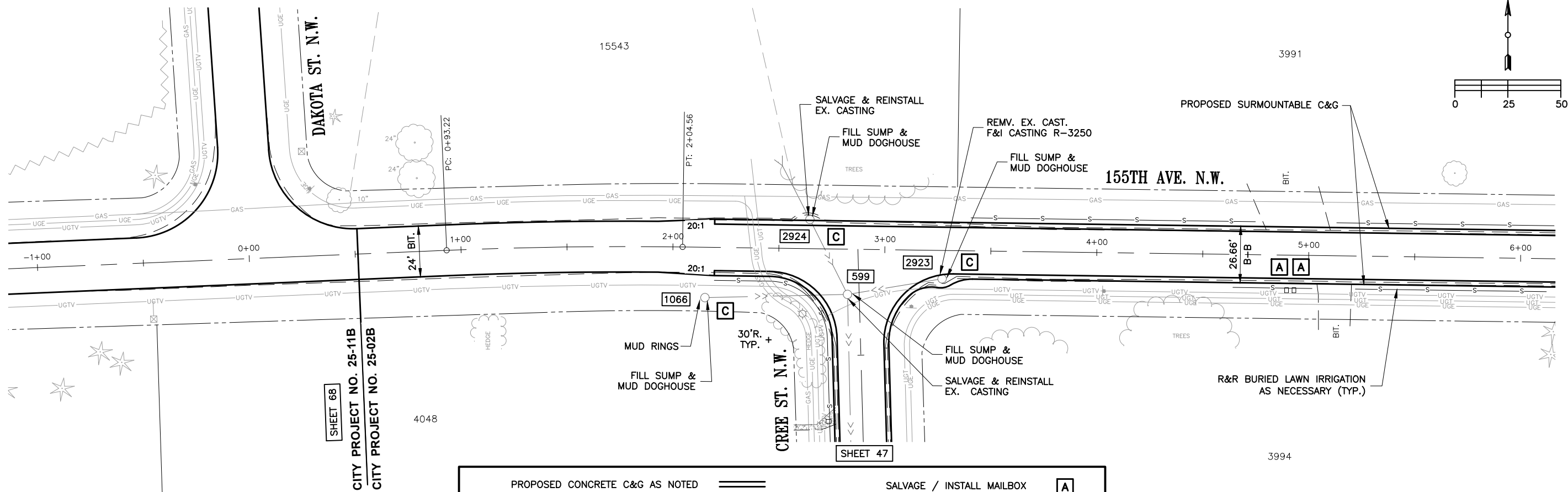
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INDIAN MEADOWS 4TH & 5TH ADDITION
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CITY OF
ANDOVER





PROPOSED CONCRETE C&G AS NOTED

NOTE: DRWY'S SHALL BE REMOVED AS DIRECTED BY ENGINEER.
BIT. & CONC. DRWY'S SHALL BE REPLACED IN KIND.
GRAVEL DRWY'S SHALL BE REPLACED WITH A BIT. 15' APRON.
FG DRWY GRADES < THAN 2.0% ARE NOTED ON PLAN.

SALVAGE / INSTALL MAILBOX

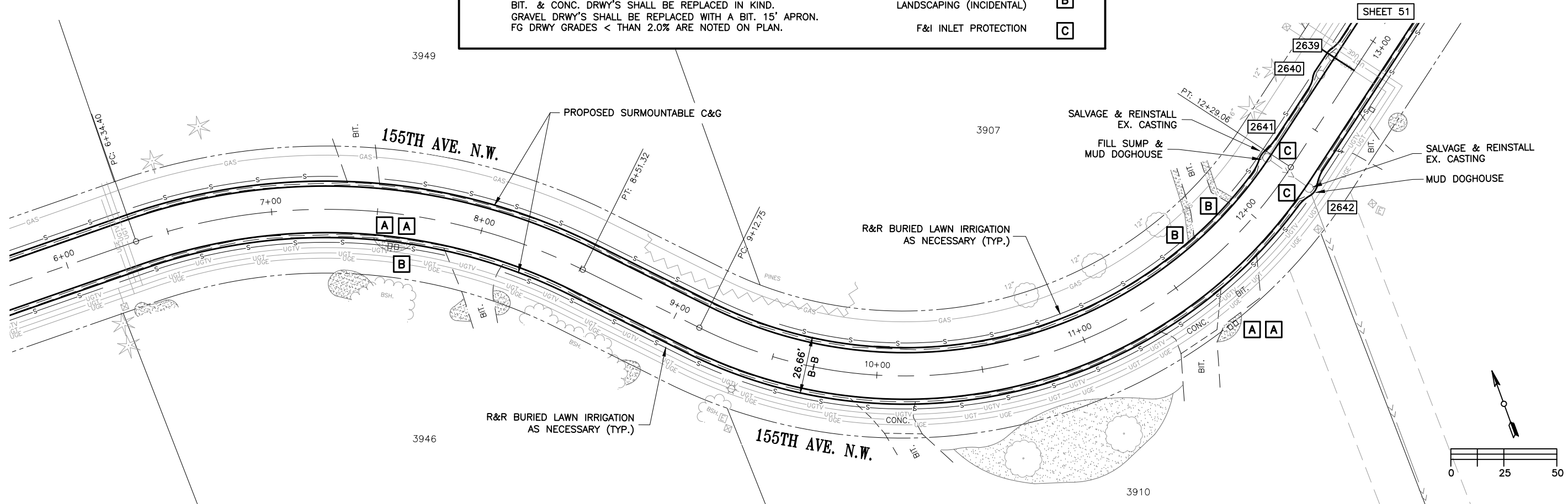
PROTECT / SALVAGE / REINSTALL
LANDSCAPING (INCIDENTAL)

F&I INLET PROTECTION

A

B

C



DESCRIPTION OF REVISIONS

NO.	DATE	BY

DESIGNED
JUL

DRAWN
AAK

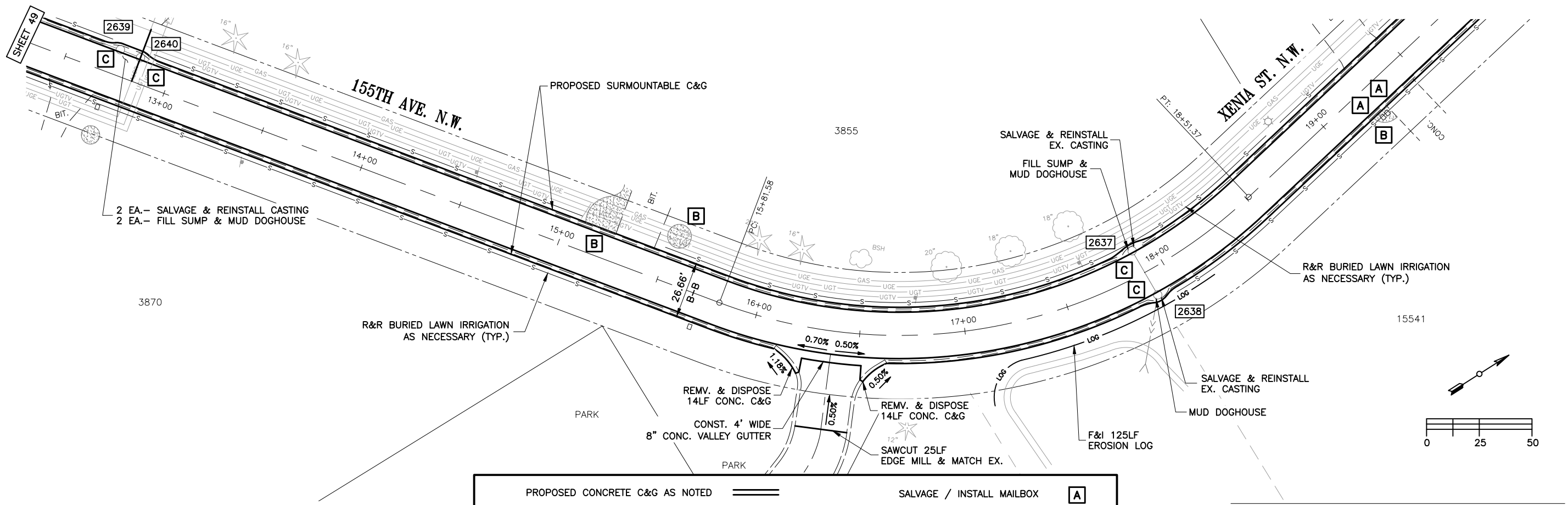
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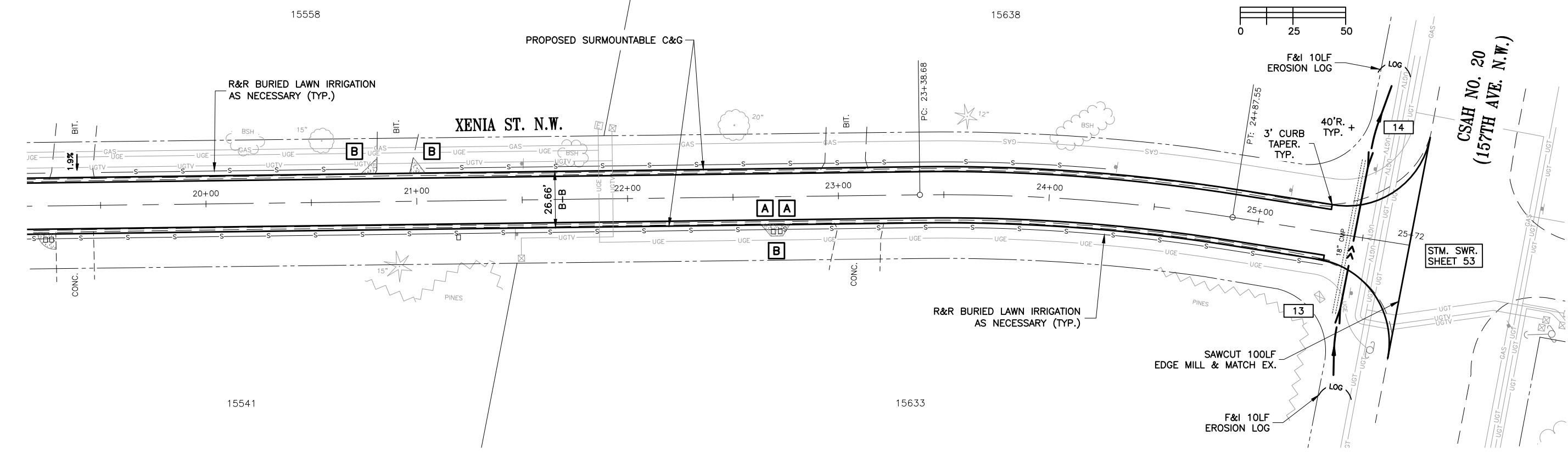
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C



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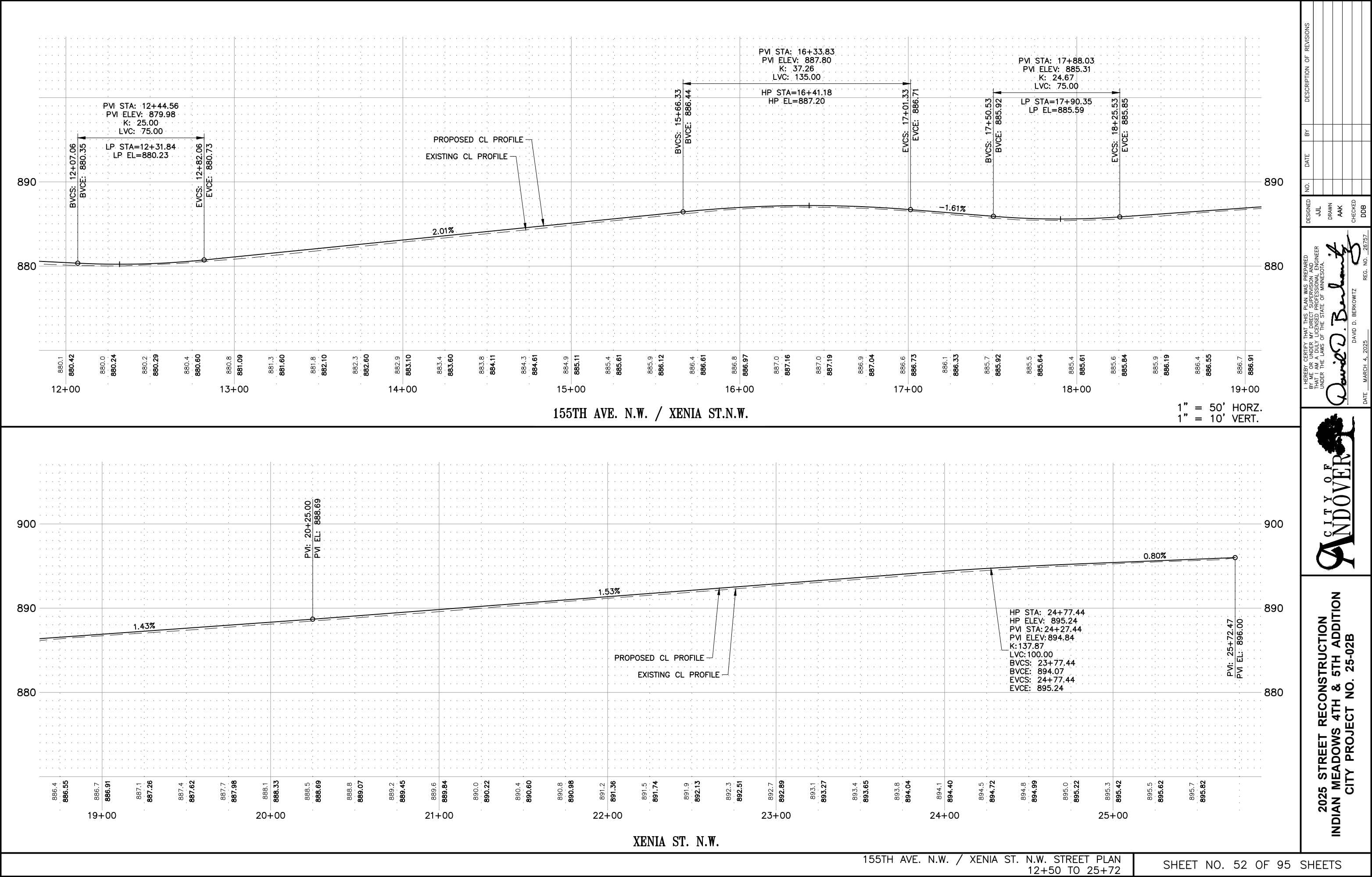
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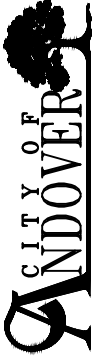


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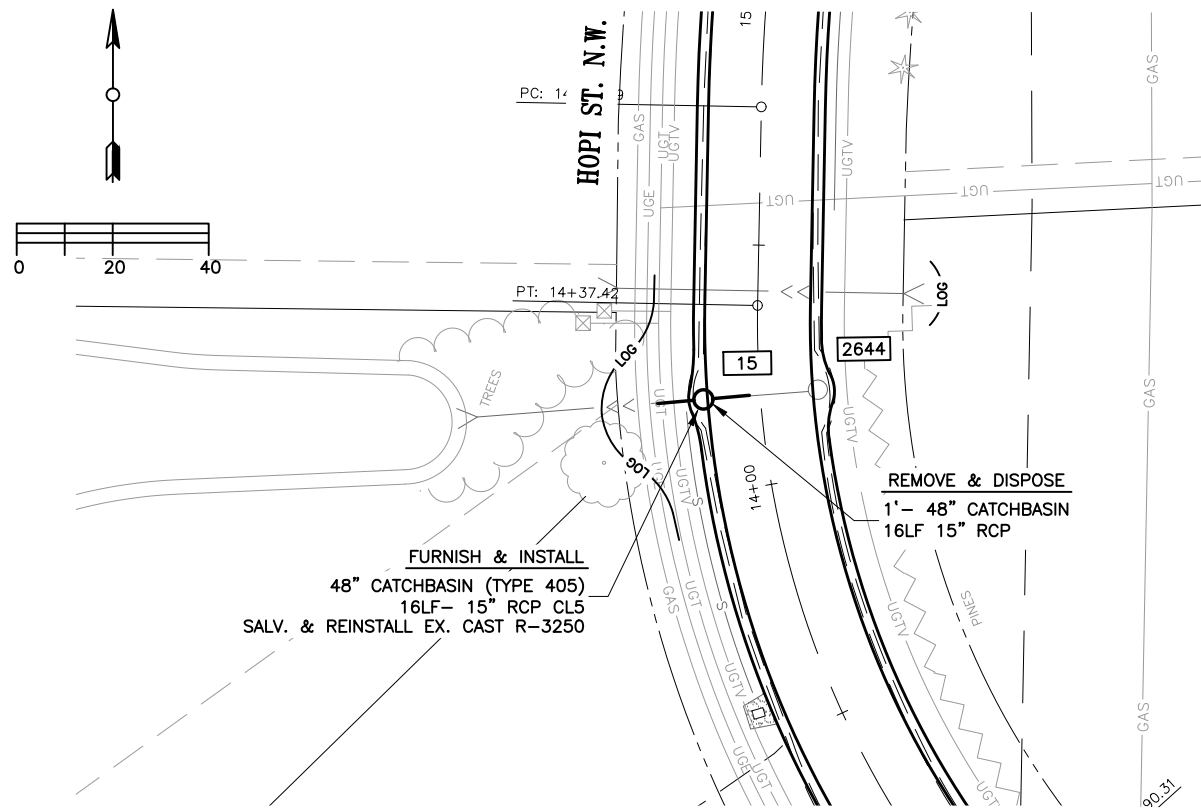
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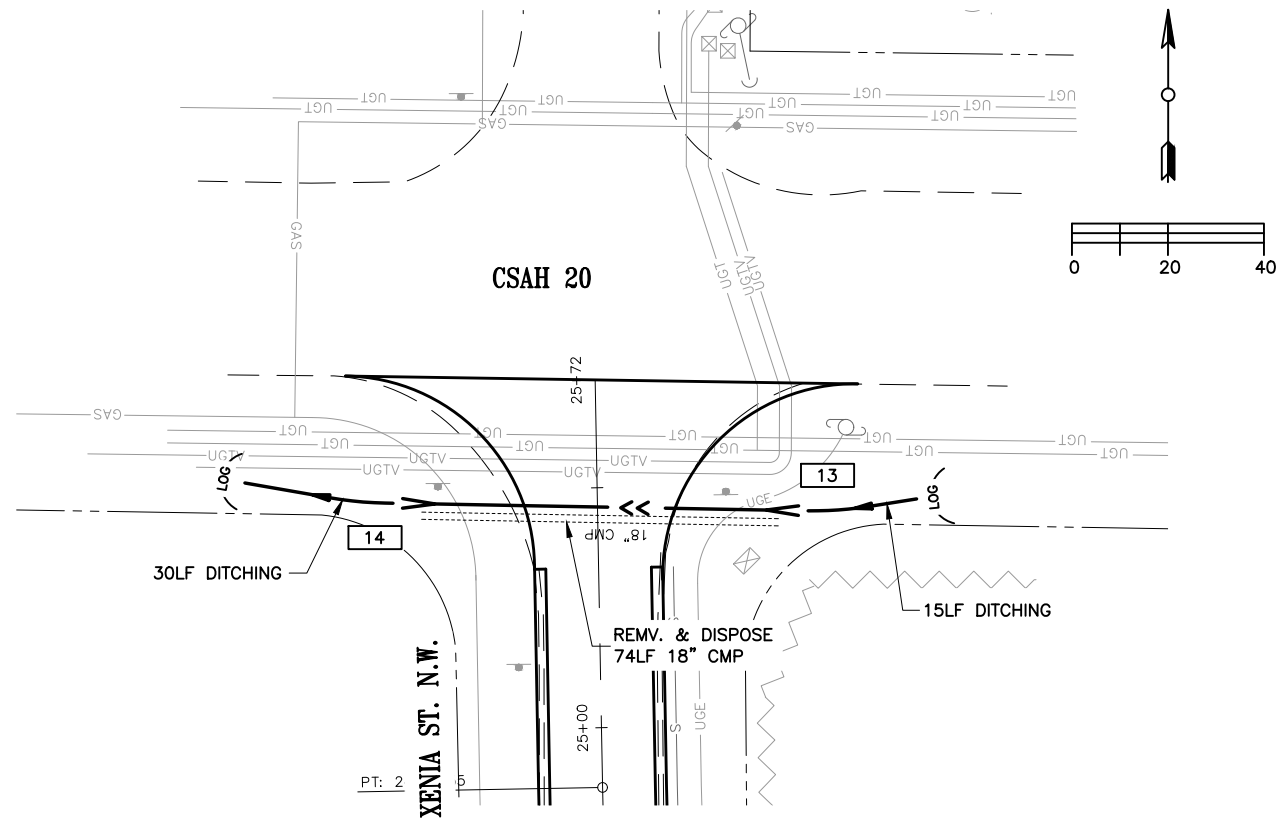


CITY OF ANDOVER

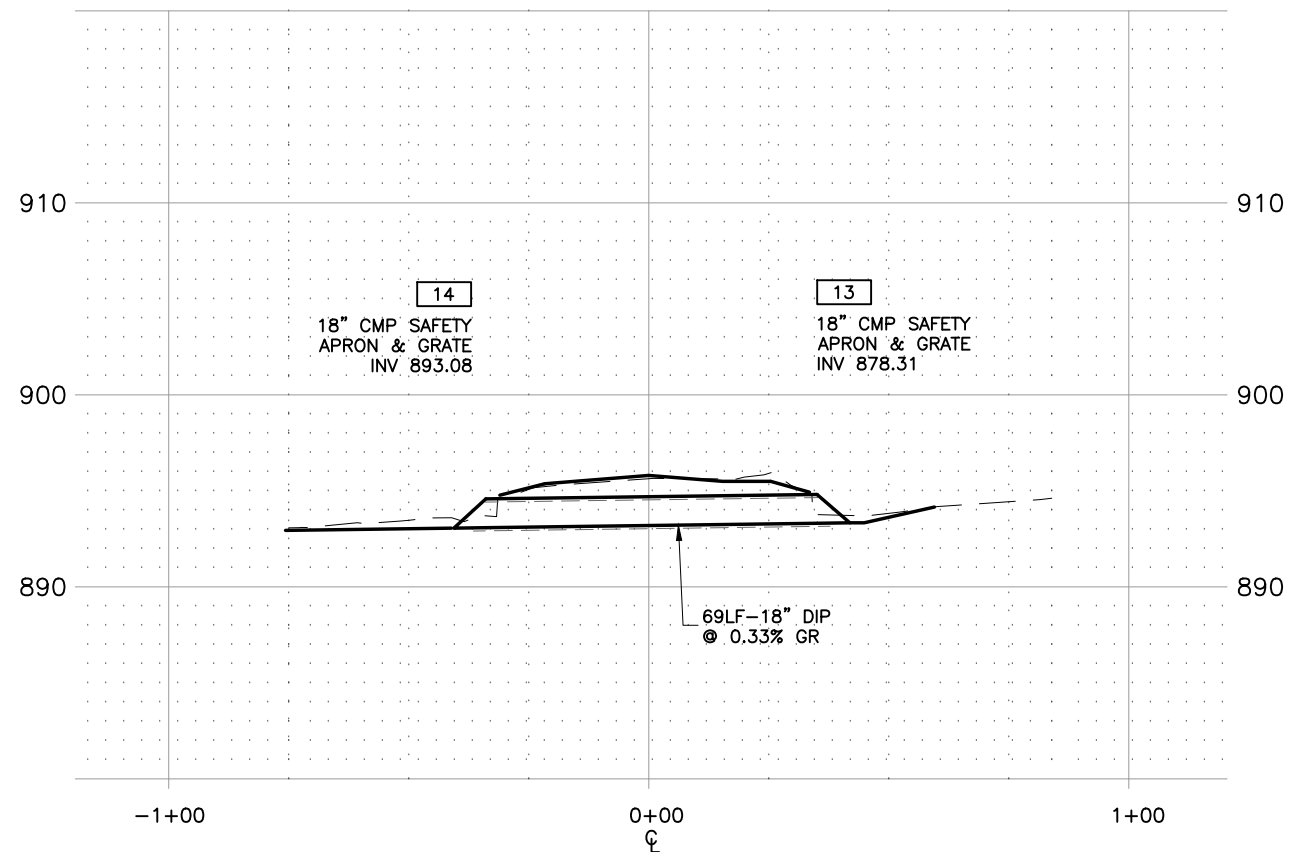
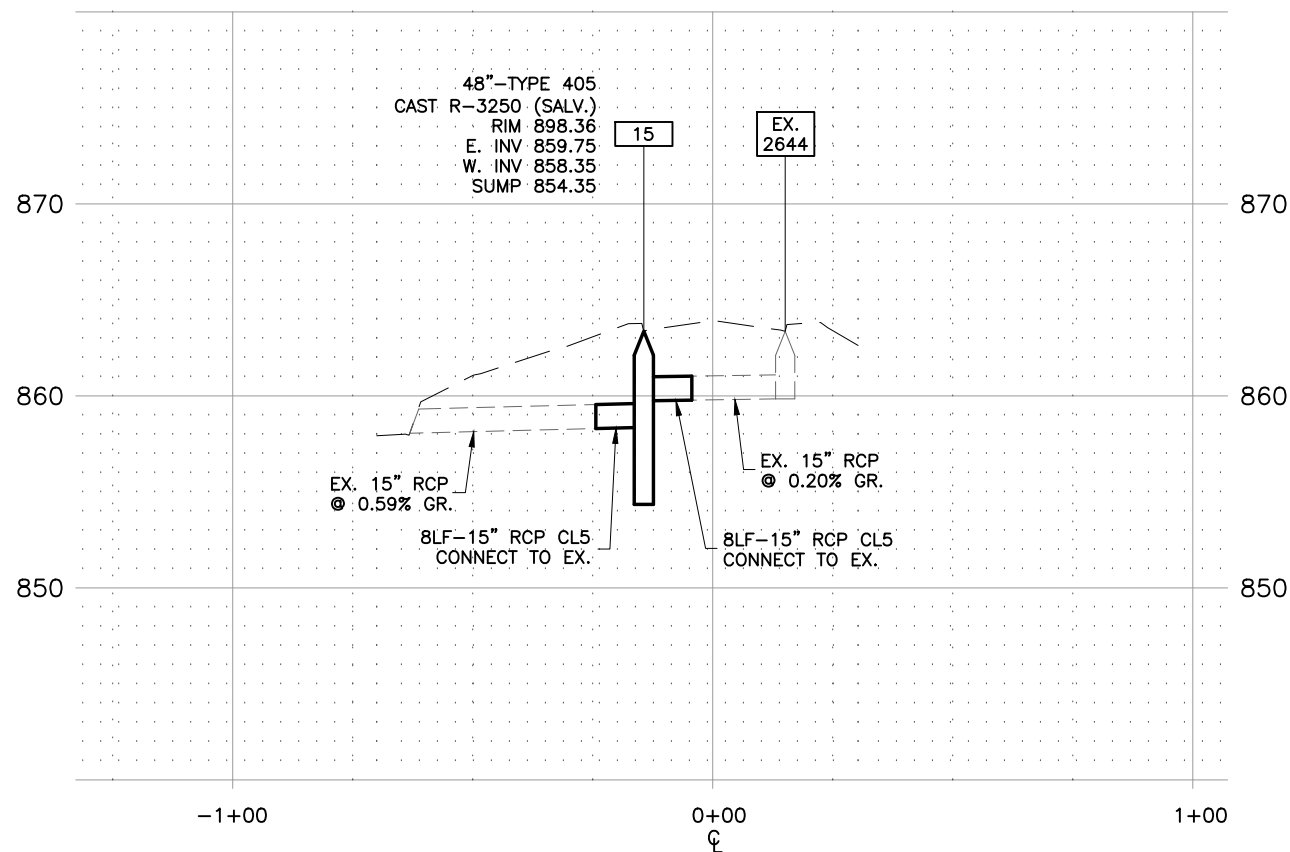
2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



HOPI ST. N.W.
CATCH BASIN REPLACEMENT



XENIA ST. N.W. & CSAH 20 (157 TH AVE. N.W.)
CULVERT REPLACEMENT



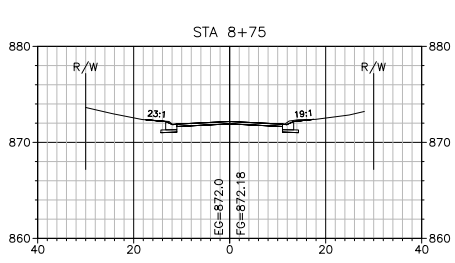
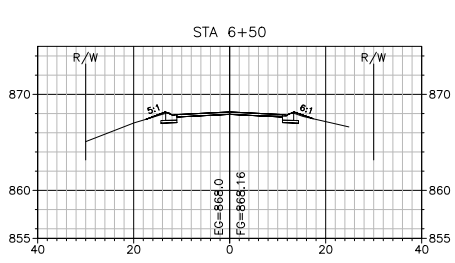
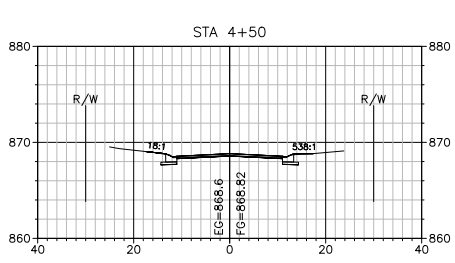
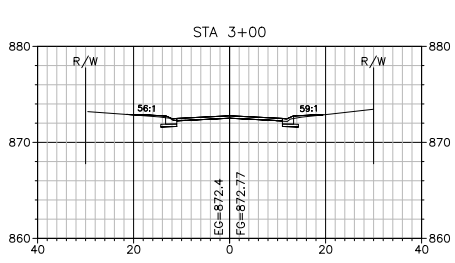
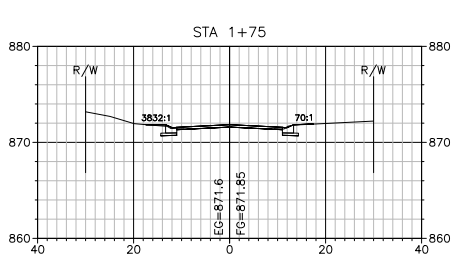
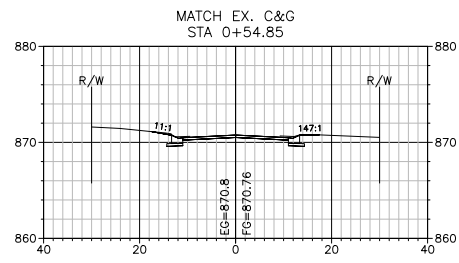
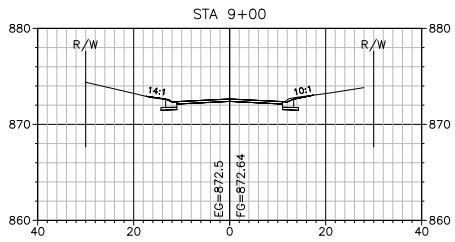
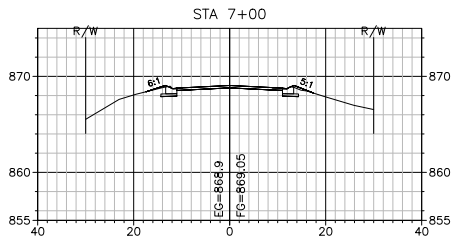
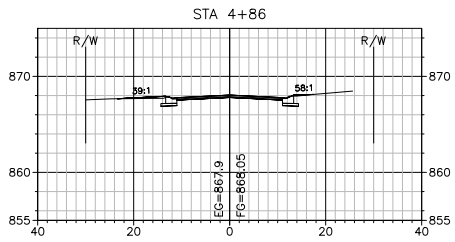
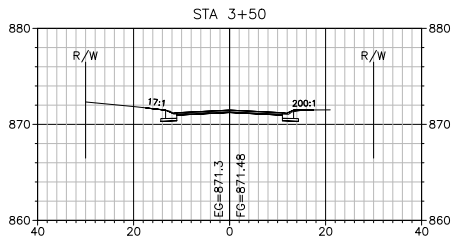
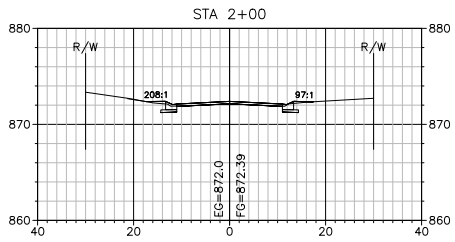
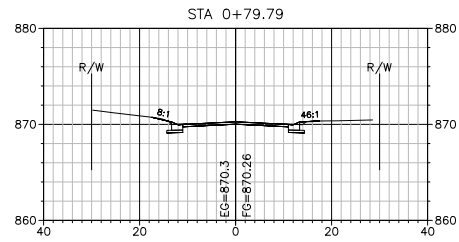
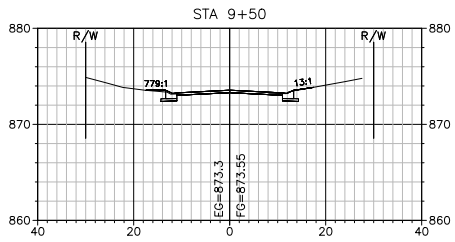
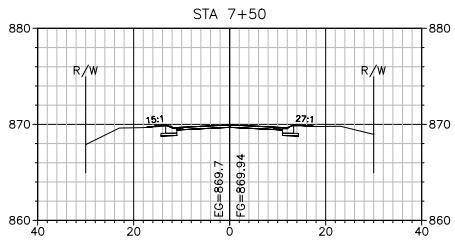
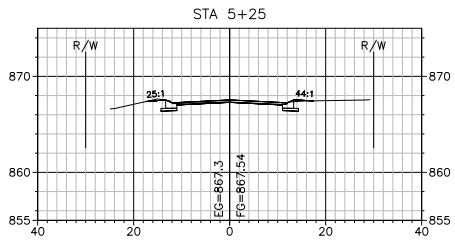
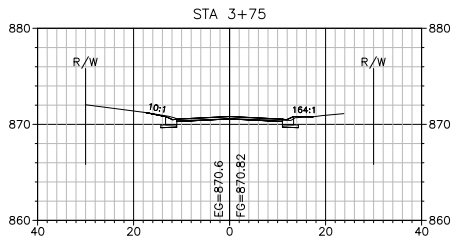
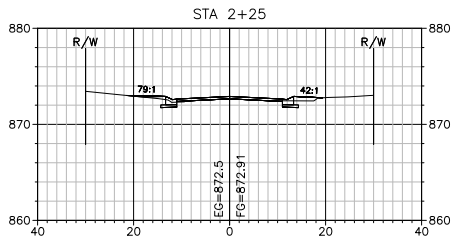
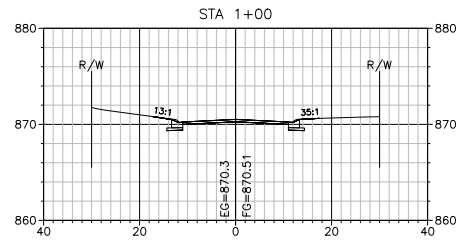
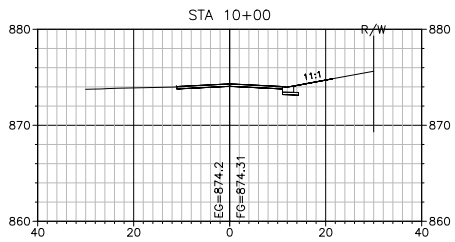
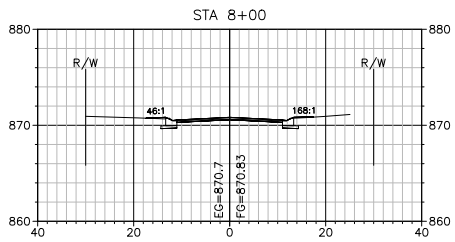
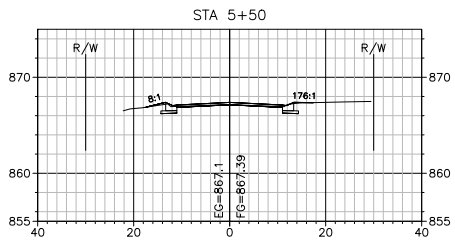
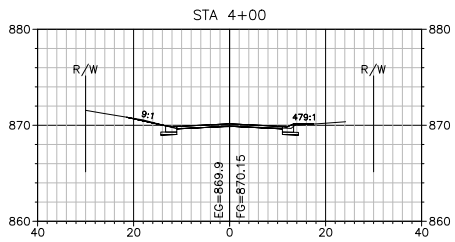
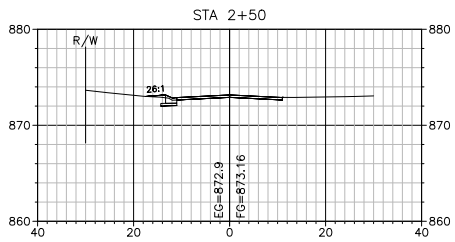
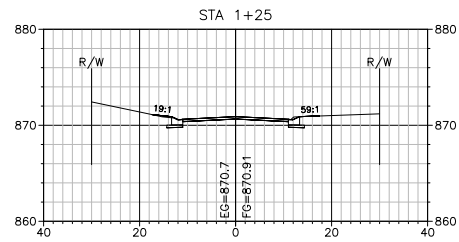
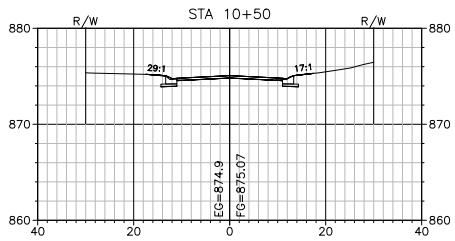
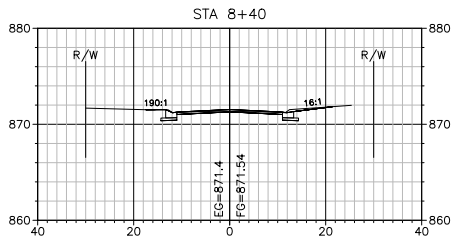
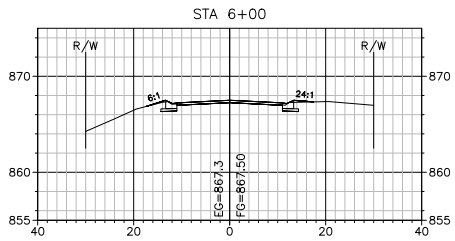
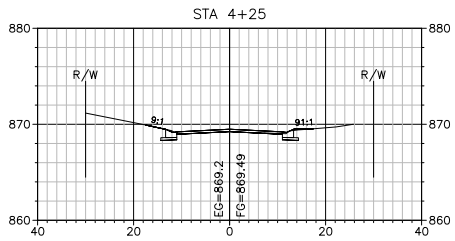
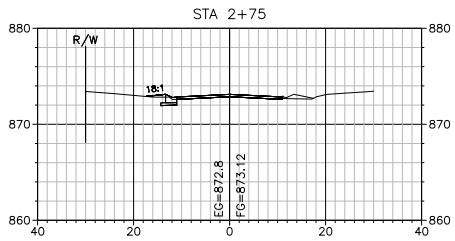
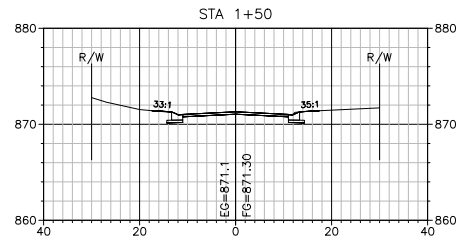
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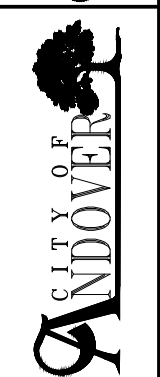
1" = 10' VERT.
1" = 40' HORZ.

DESCRIPTION OF REVISIONS	
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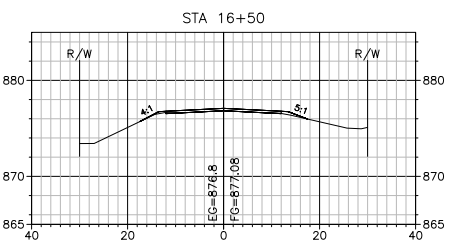
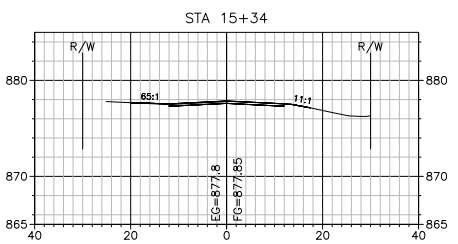
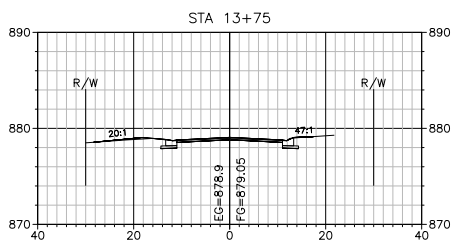
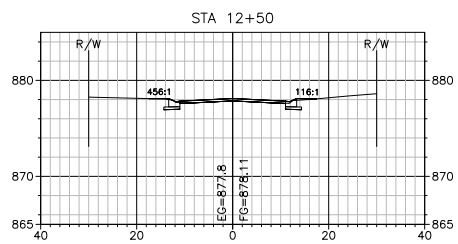
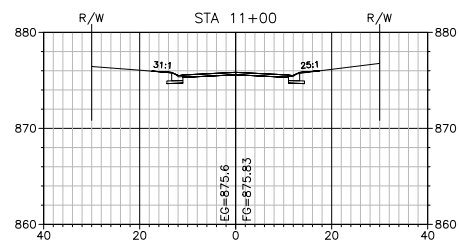
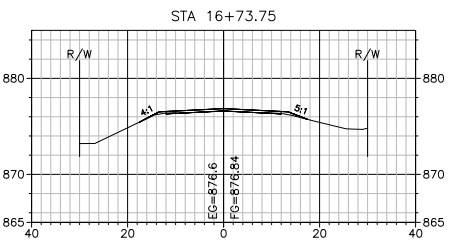
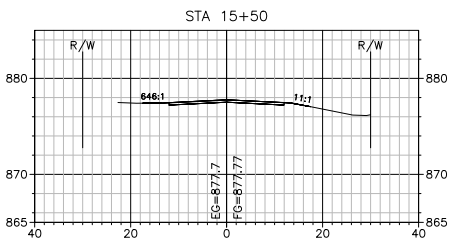
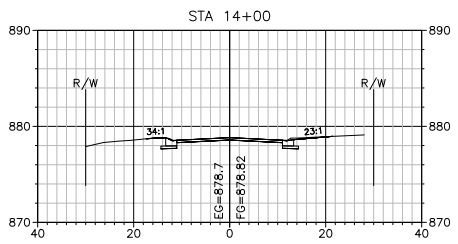
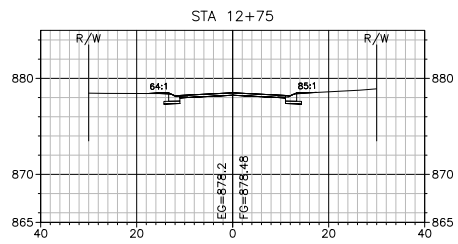
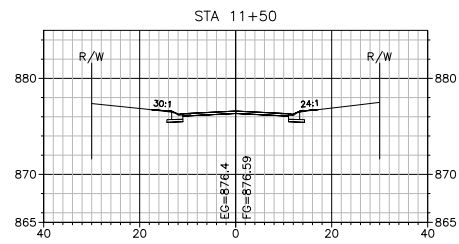
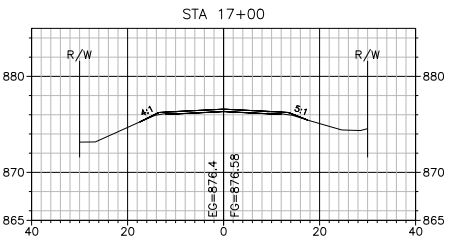
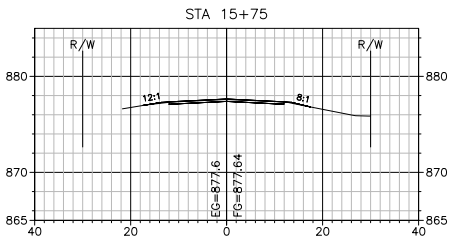
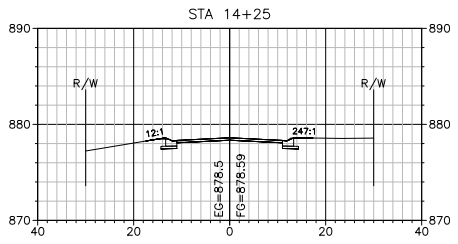
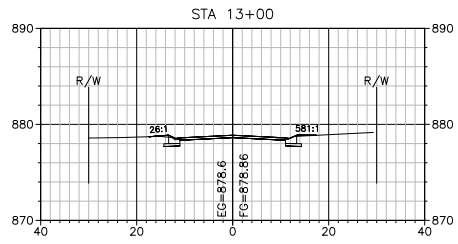
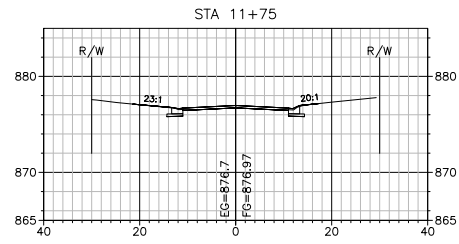
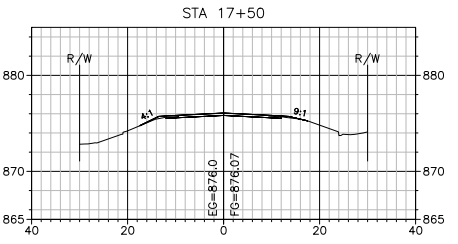
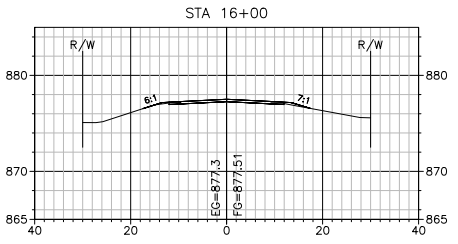
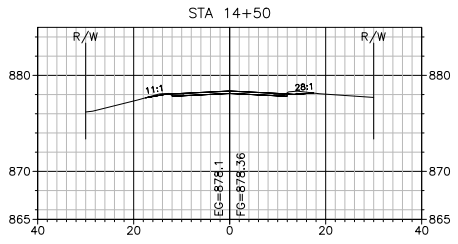
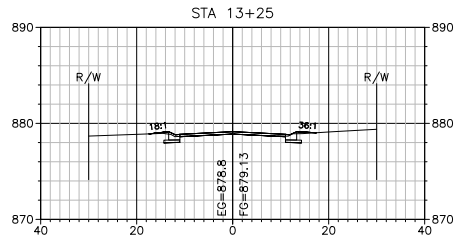
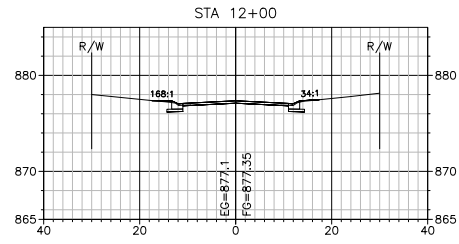
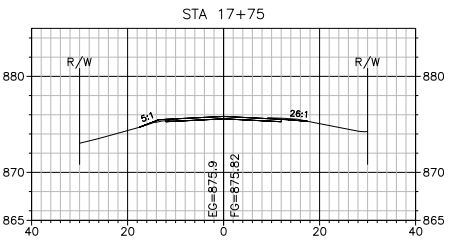
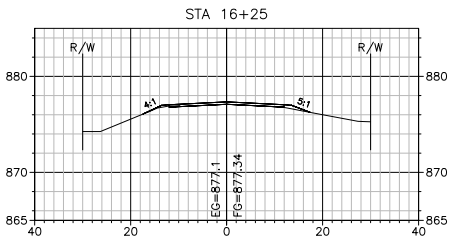
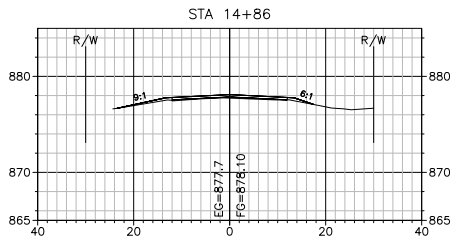
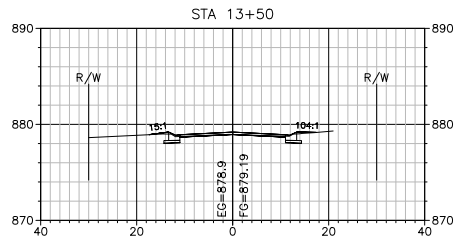
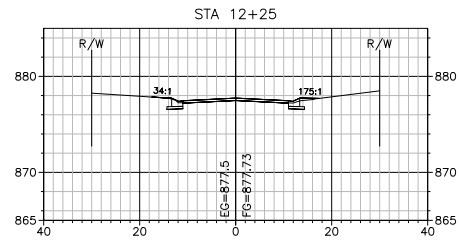
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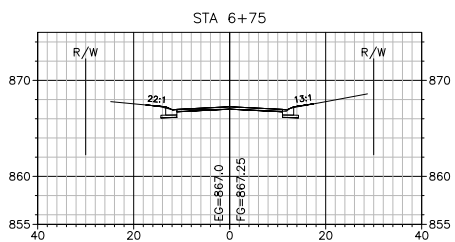
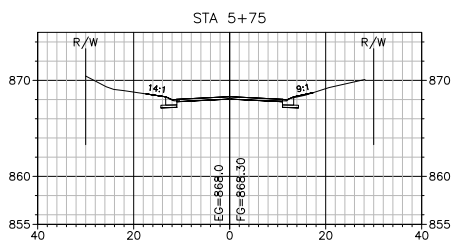
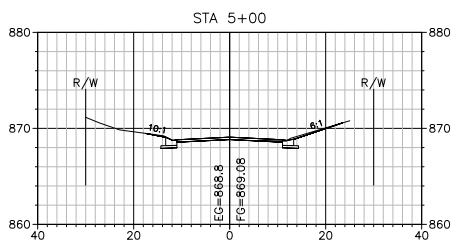
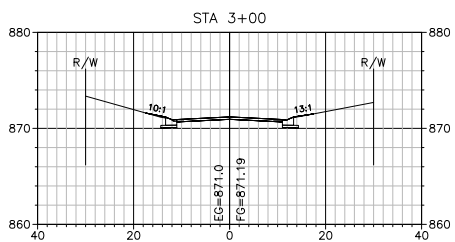
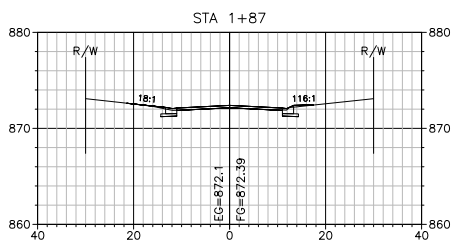
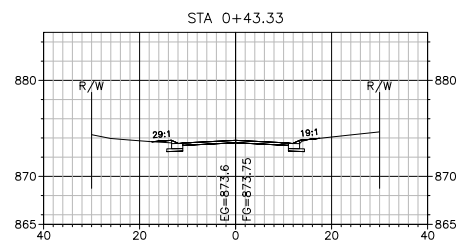
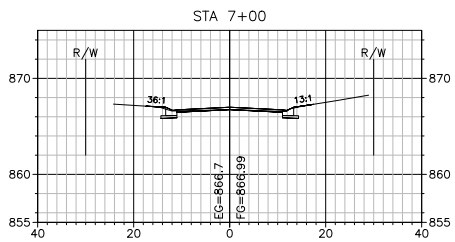
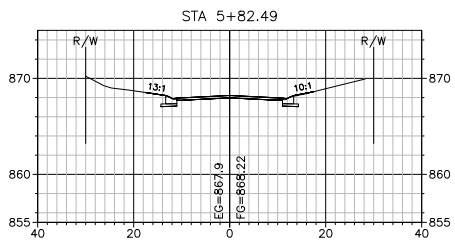
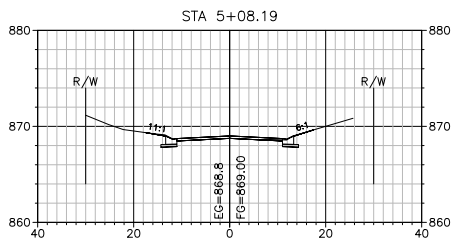
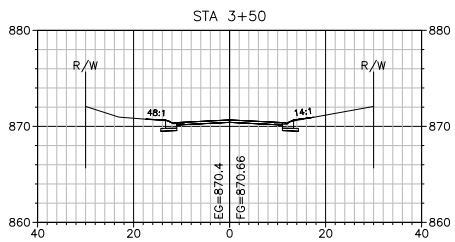
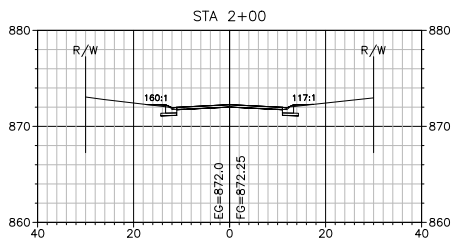
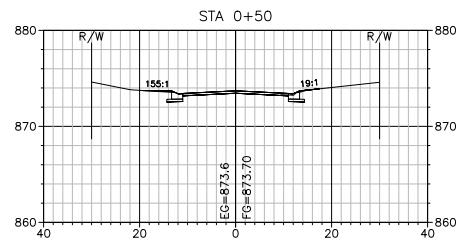
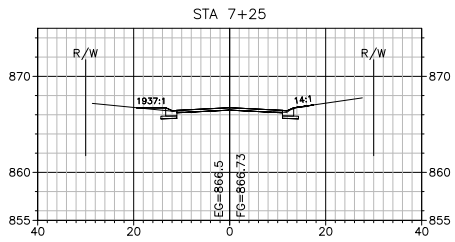
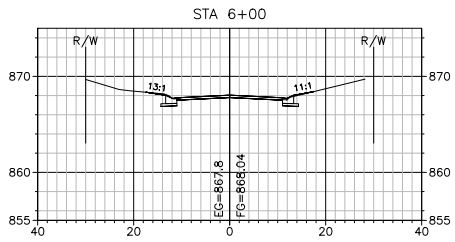
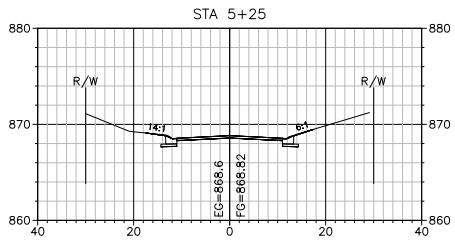
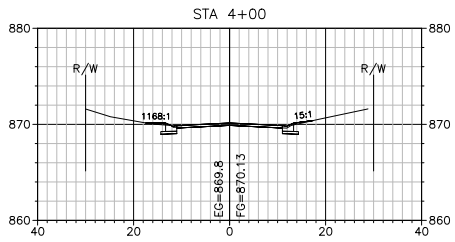
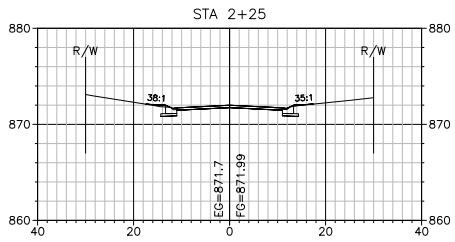
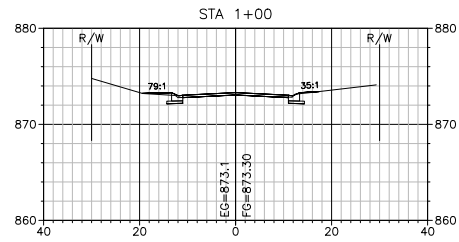
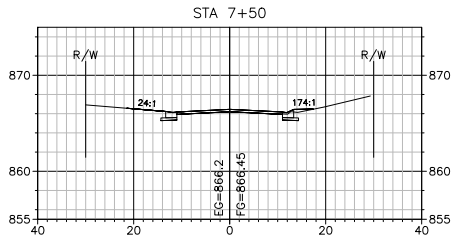
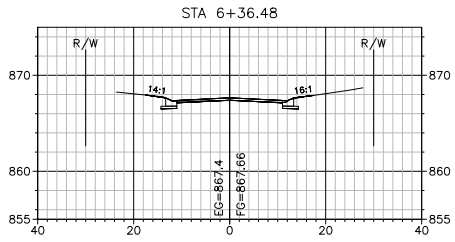
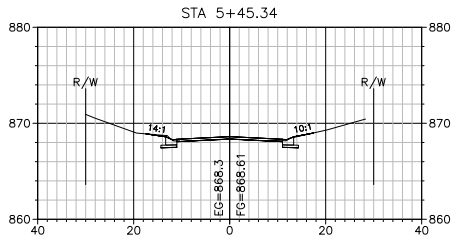
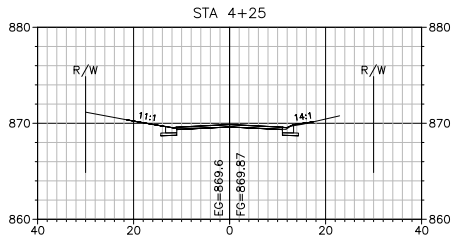
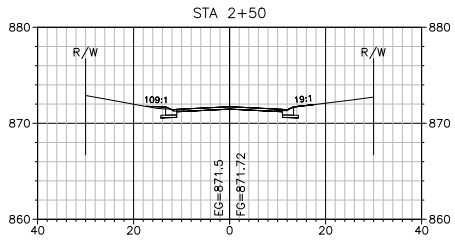
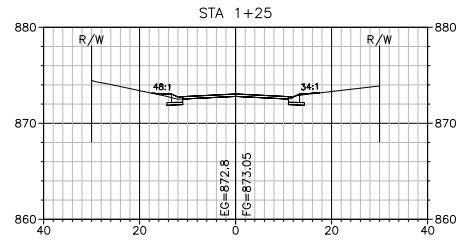
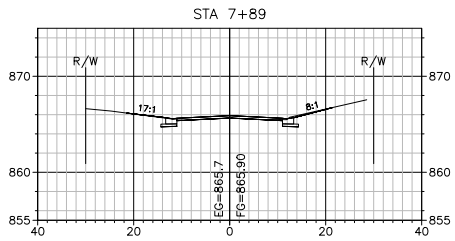
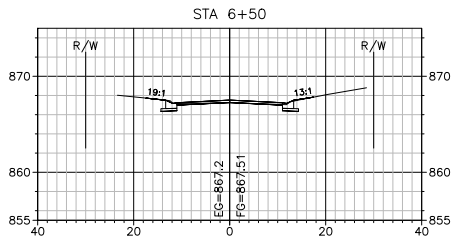
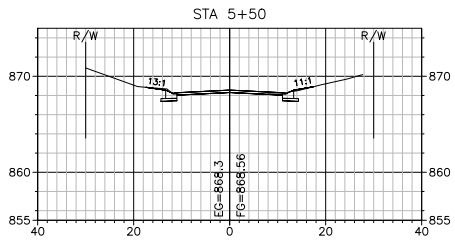
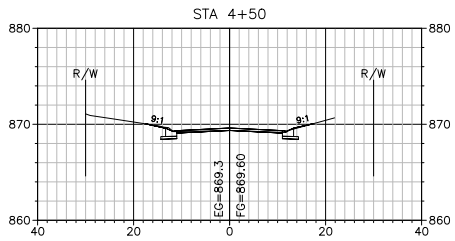
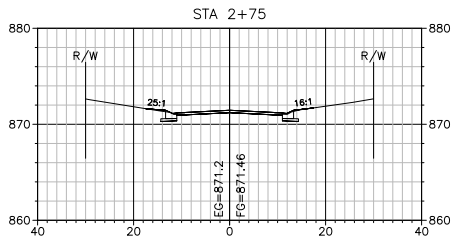
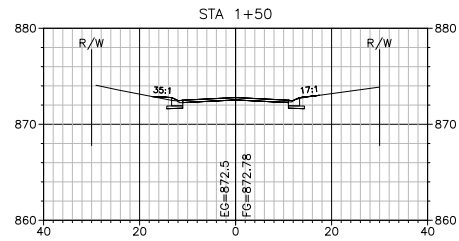
DAVID D. BERKOWITZ
REG. NO. 26757
DATE: MARCH 4, 2023



2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



1" = 10' VERT.
1" = 40' HORZ.



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1" = 40' HORZ.

154TH LN. N.W. CROSS SECTIONS
0+43 TO 7+89

SHEET NO. 56 OF 95 SHEETS

2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B

DESIGNED
JUL

DRAWN
AAK

CHECKED
DDB

DATE
MARCH 4, 2023

REG. NO.
26737

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UNDER THE LAWS OF THE STATE OF MINNESOTA

David D. Berkowitz

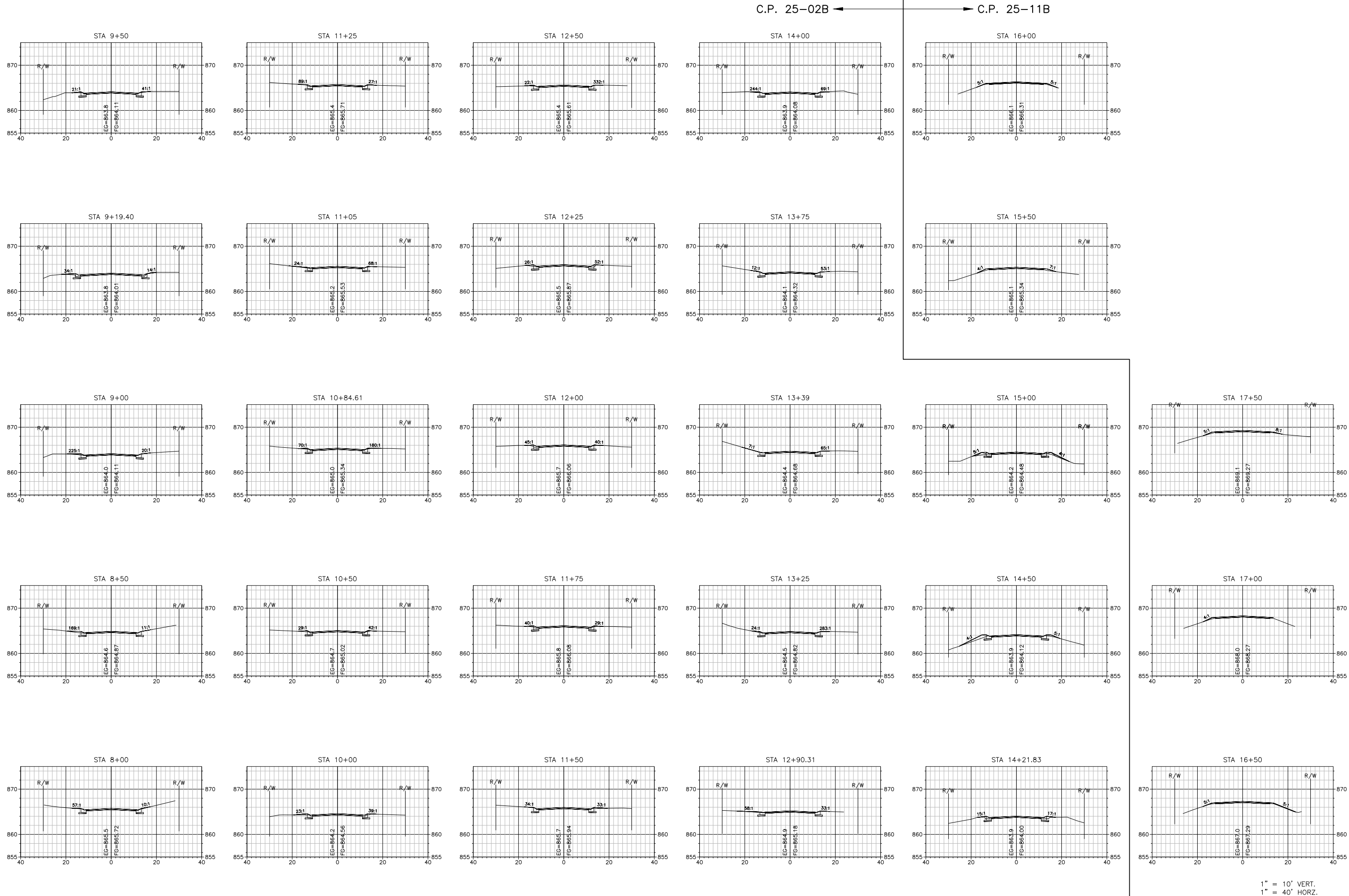
DAVID D. BERKOWITZ

NO.

DATE

BY

DESCRIPTION OF REVISIONS



DESCRIPTION OF REVISIONS	
NO.	DATE

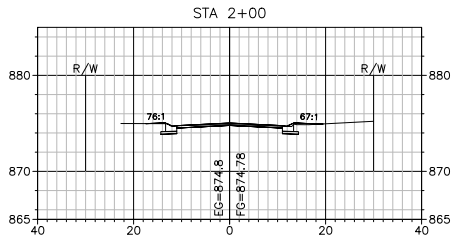
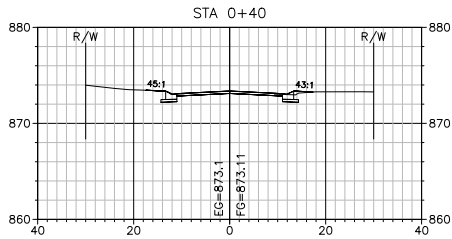
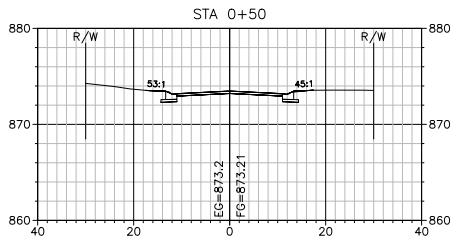
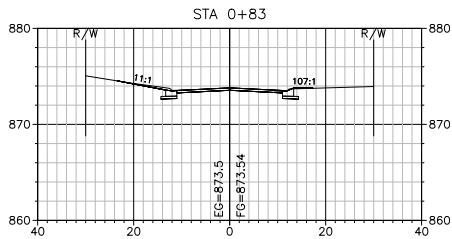
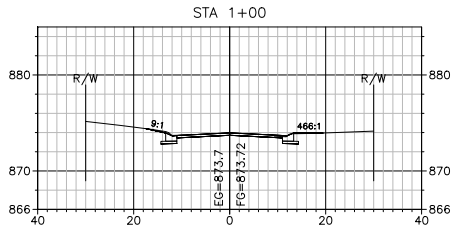
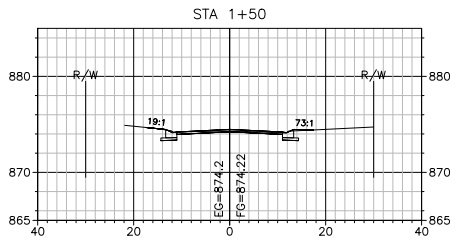
DESIGNED	DRAWN	CHECKED	DDB
JUL	AAK		

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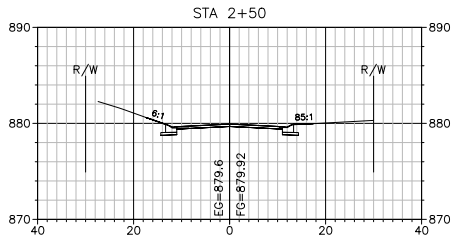
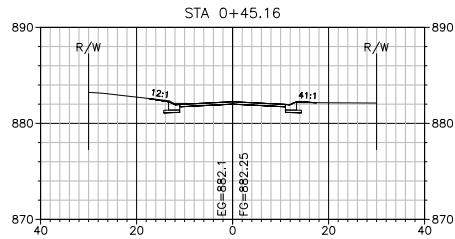
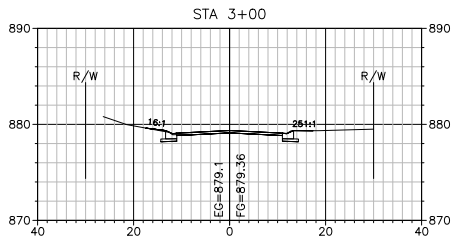
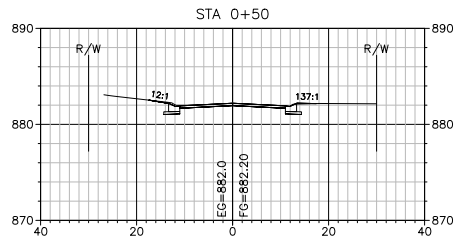
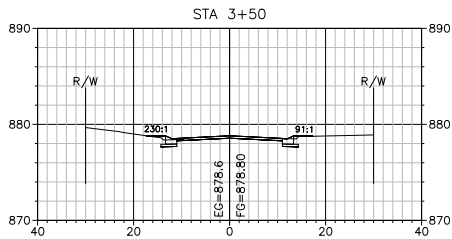
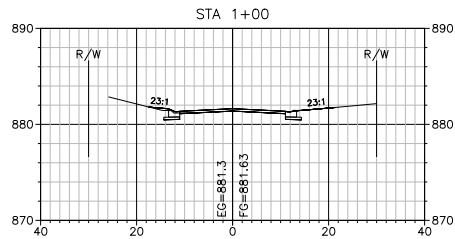
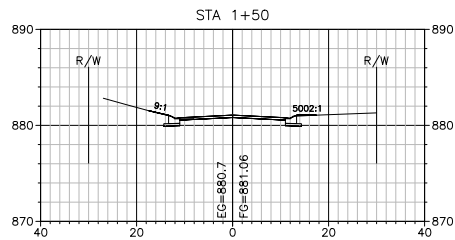
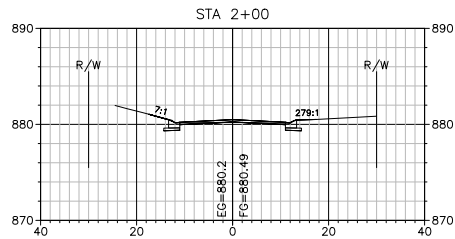
David D. Berkowitz
DAVID D. BERKOWITZ
REG. NO. 26737
DATE: MARCH 4, 2023

CITY OF ANDOVER

**2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B**



152ND LN. N.W. (CUL-DE-SAC)



CREE ST. N.W. (CAL-DE-SAC)

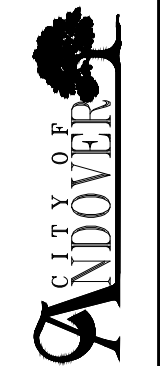
1" = 10' VERT.
1" = 40' HORZ.

NO.	DATE	BY	DESCRIPTION OF REVISIONS

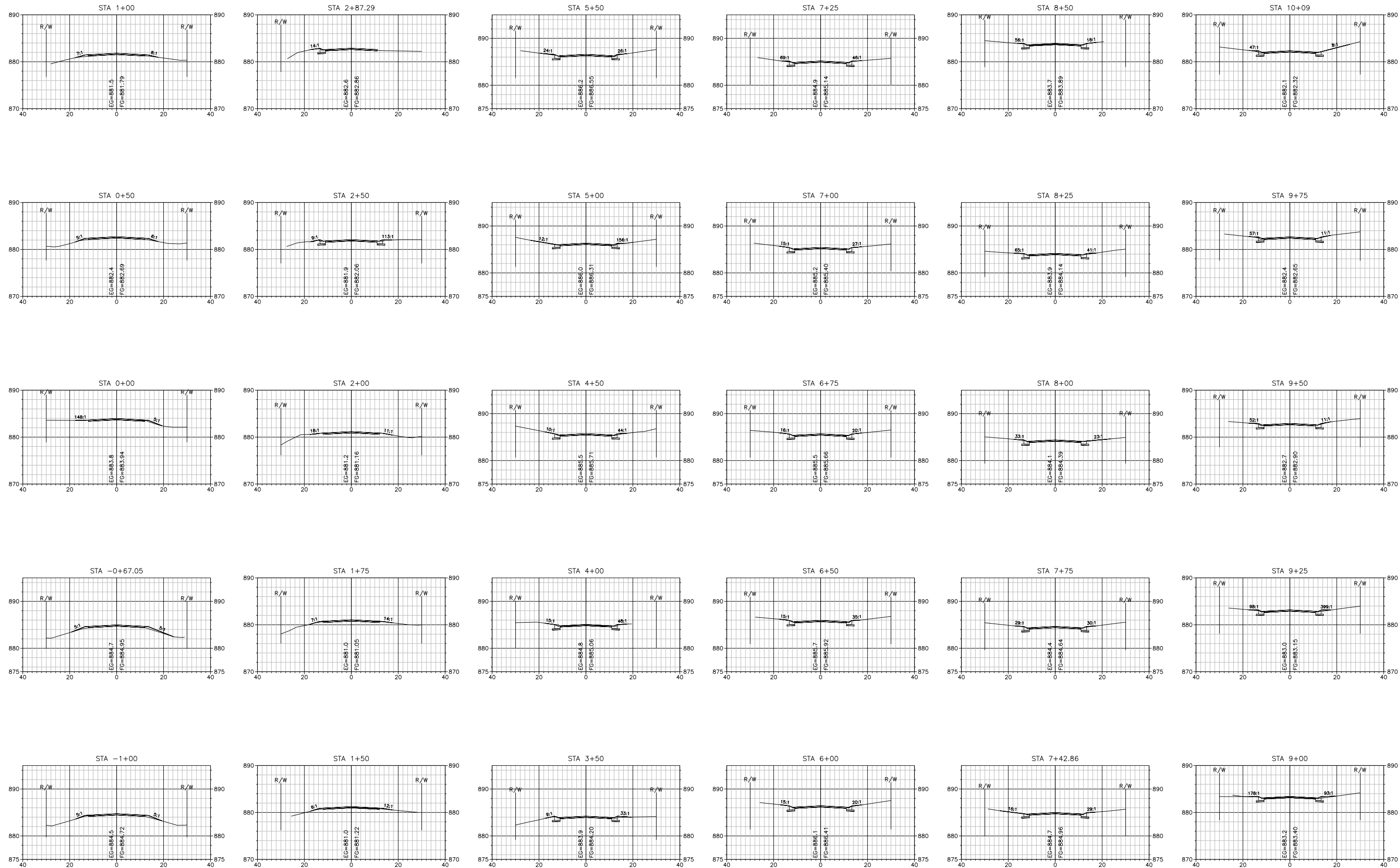
DESIGNED	JUL
DRAWN	AAK
CHECKED	DDB

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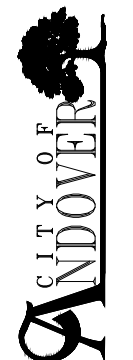


2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



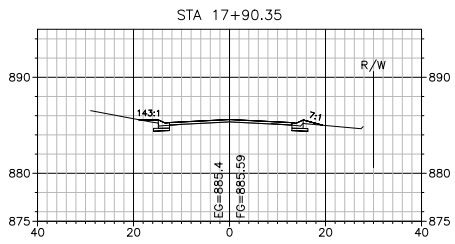
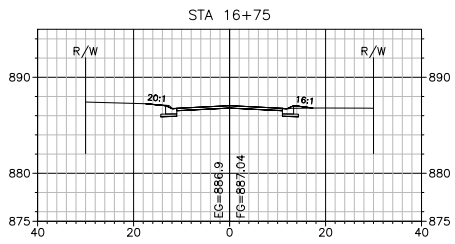
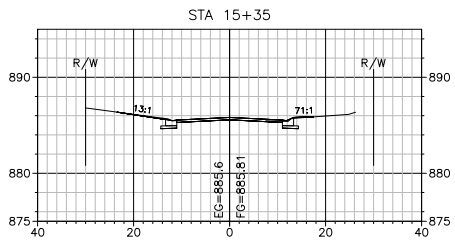
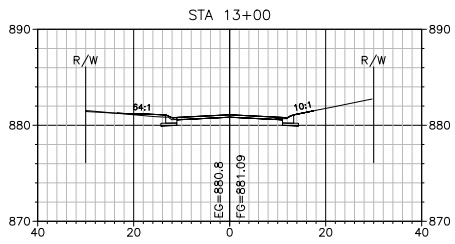
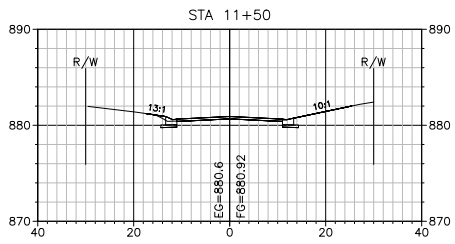
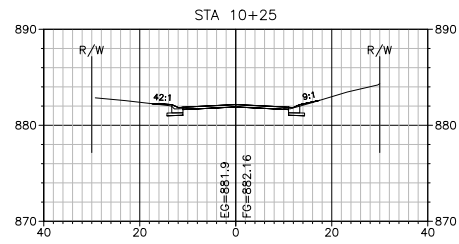
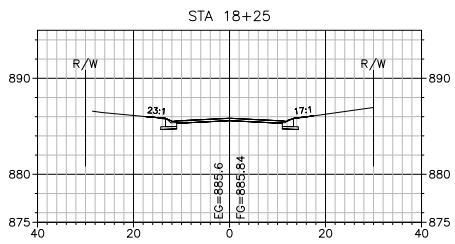
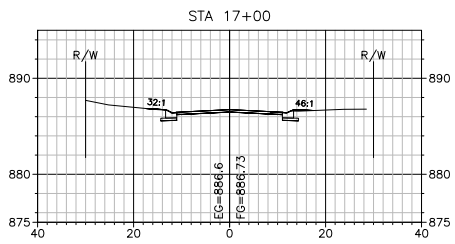
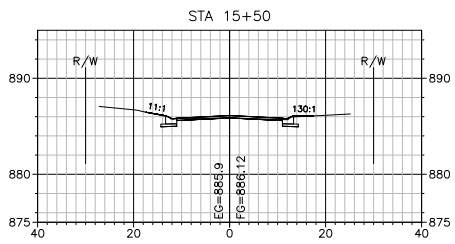
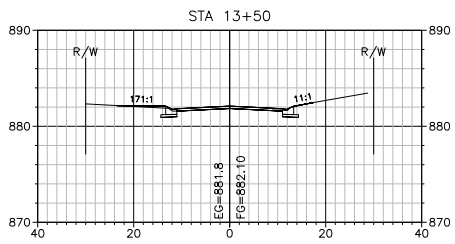
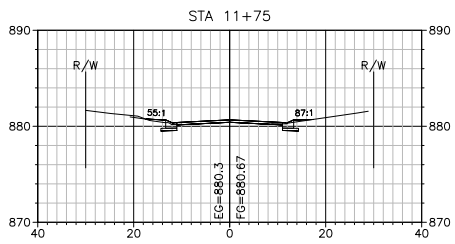
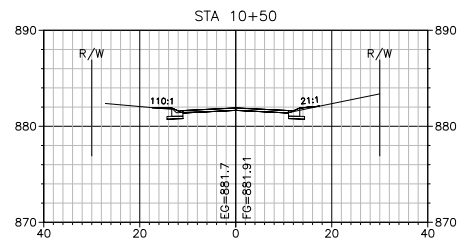
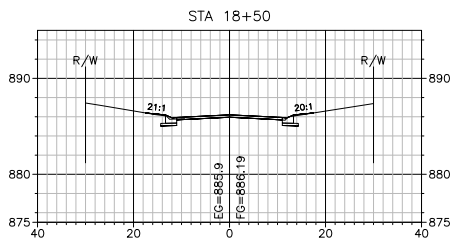
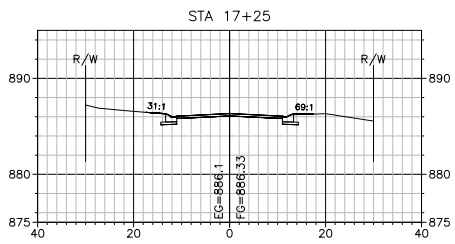
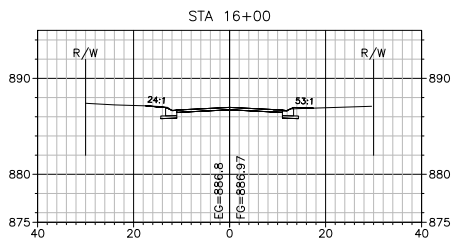
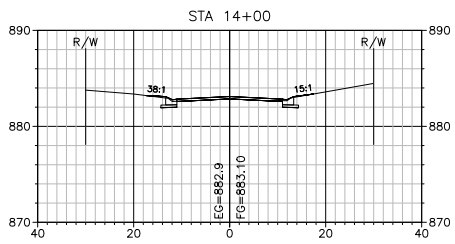
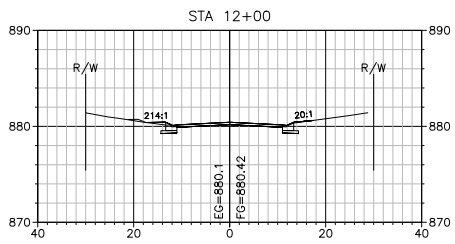
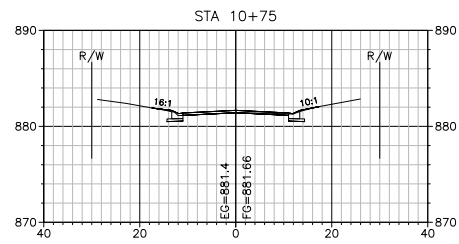
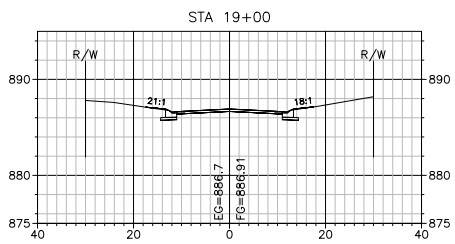
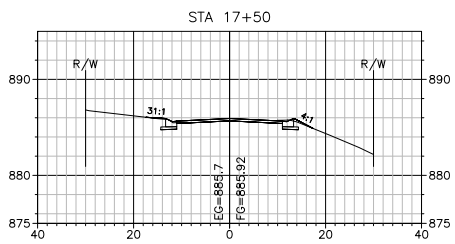
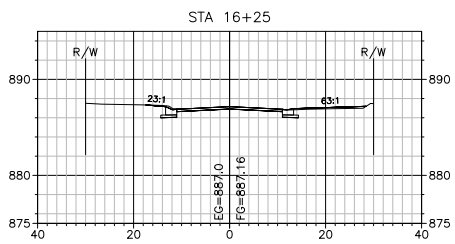
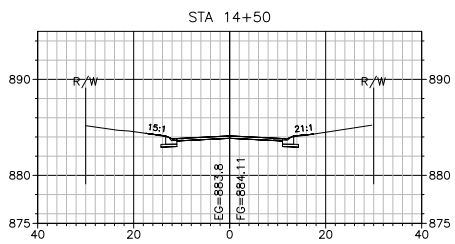
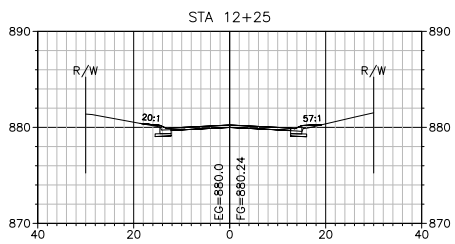
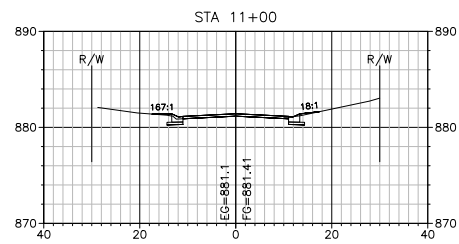
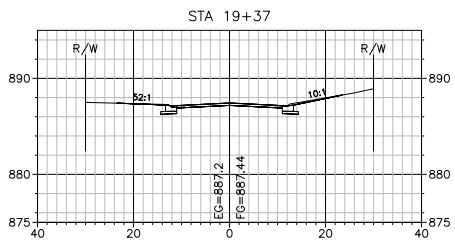
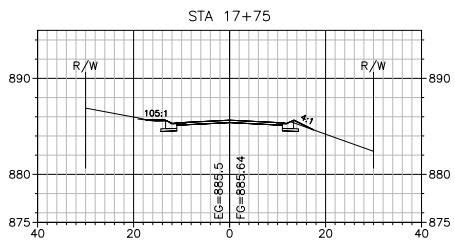
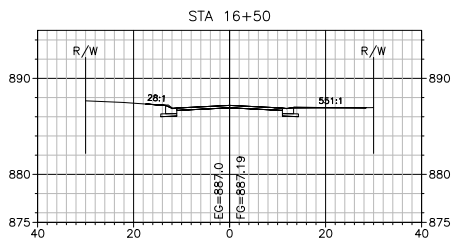
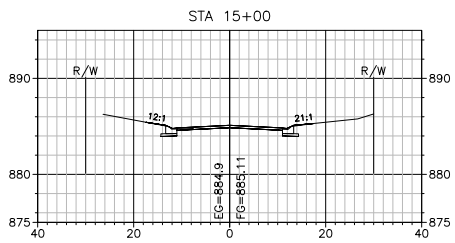
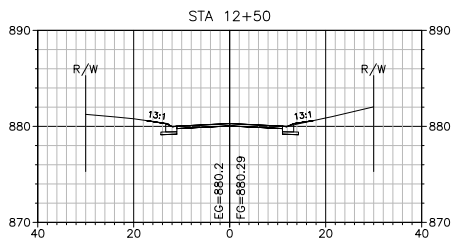
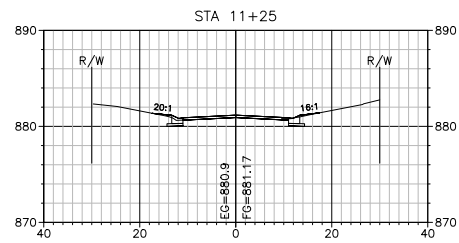
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2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
CITY PROJECT NO. 25-02B



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DAVID D. BERKOWITZ
REG. NO. 26737
DATE: MARCH 4, 2023

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DRAWN	AAK		
CHECKED			
DDB			



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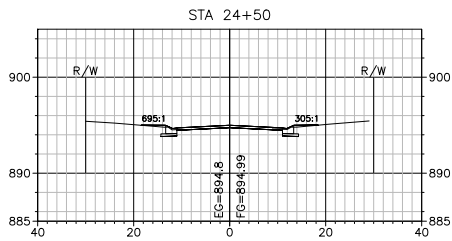
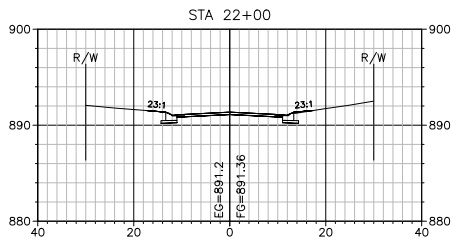
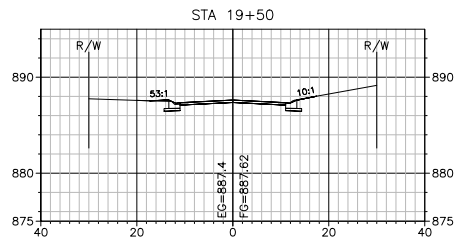
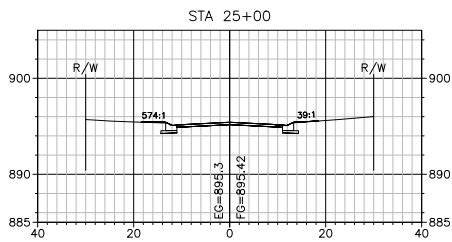
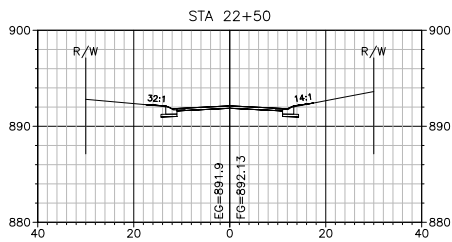
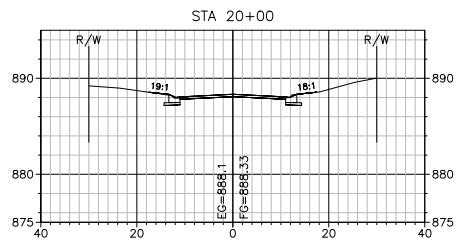
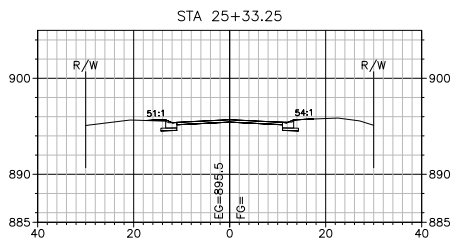
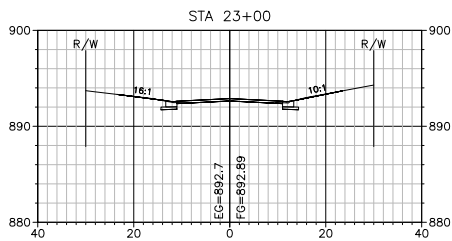
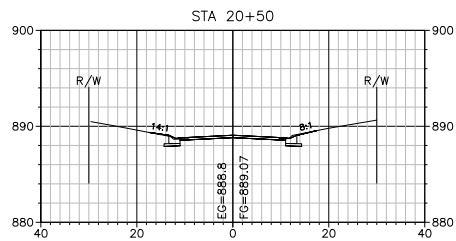
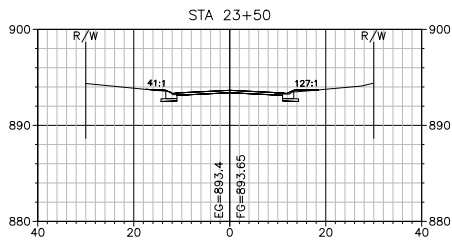
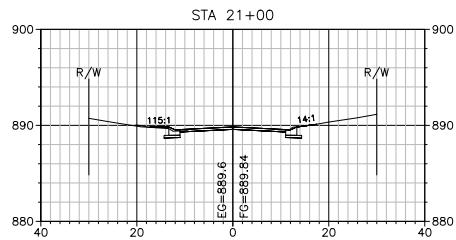
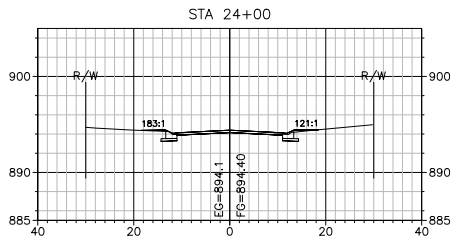
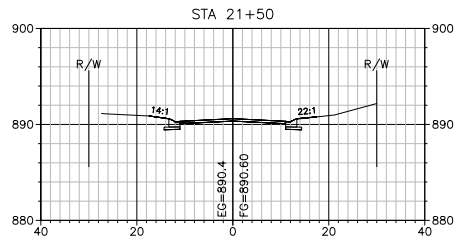
2025 STREET RECONSTRUCTION
INDIAN MEADOWS 4TH & 5TH ADDITION
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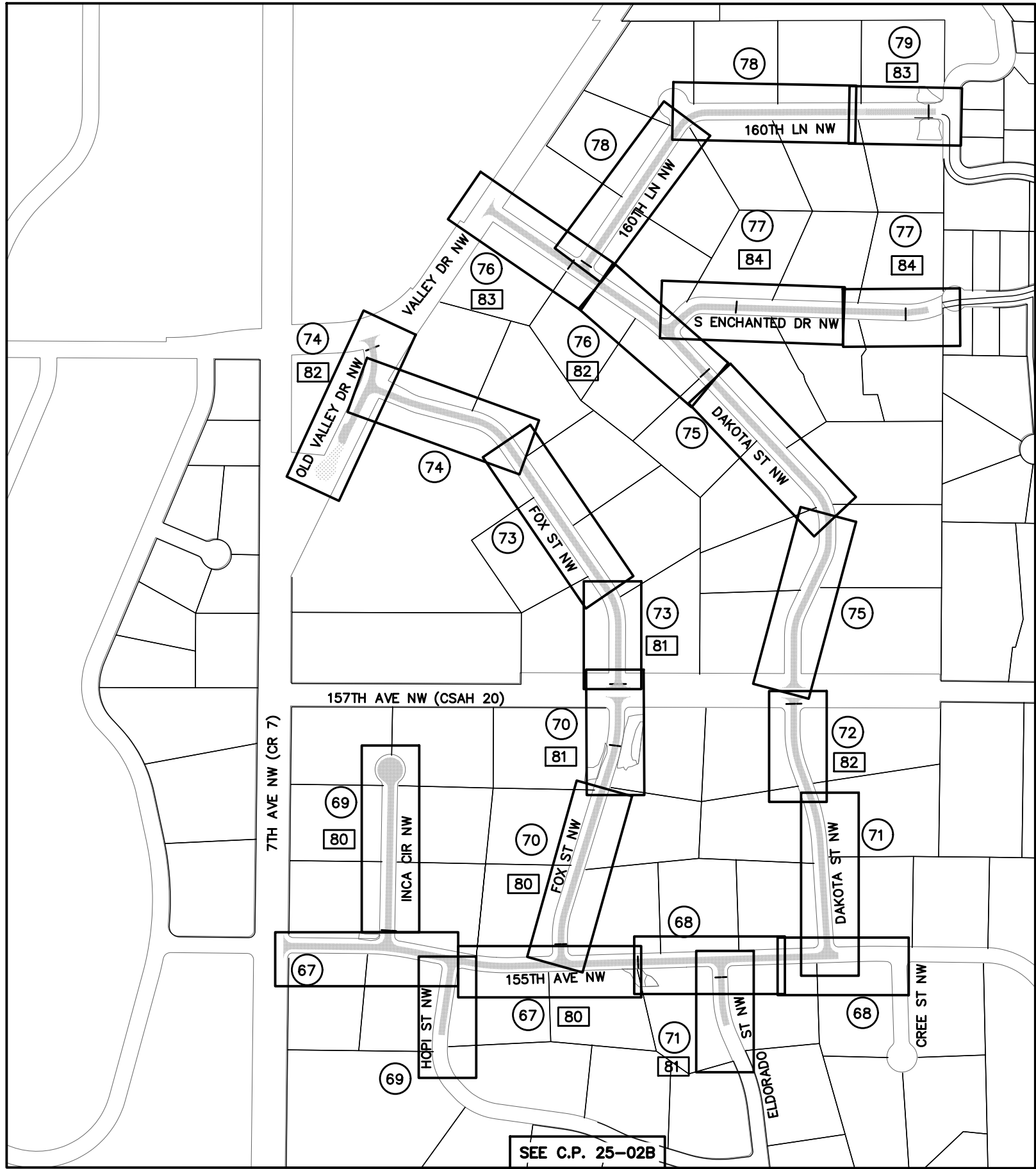
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DDB			



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- (XX) = REMOVALS,
STREET PAVING
- [XX] = CULVERT
PLAN/PROFILES

FOX MEADOWS
↑
↓
INDIAN MEADOWS



2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

CITY OF
ANDOVER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David D. Bergowitz
DAVID D. BERGOWITZ
DATE MARCH 4TH, 2025 REG. NO. 26757

DESIGNED	NO.	DATE	BY	DESCRIPTION OF REVISIONS
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STATEMENT OF ESTIMATED QUANTITIES

2025 FULL DEPTH RECLAMATION (C.P. 25-11B) Indian Meadows & Fox Meadows				TOTAL QUANTITIES	
NOTES	ITEM NO.	DESCRIPTION	UNIT	EST. QUAN.	ACT. QUAN.
	1	2021.501 Mobilization	LS	1.00	
1	2	2104.503 Sawing Concrete Pavement (Full Depth)	LF	200	
1	3	2104.503 Sawing Bit Pavement (Full Depth)	LF	1,820	
	4	2104.503 Remove Pipe Culvert / Storm Sewer	LF	660	
	5	2104.503 Salvage Wood Rail Fence	LF	25	
1	6	2104.518 Remove Concrete Pavement	SF	2,410	
1	7	2104.518 Remove Bituminous Pavement	SF	13,680	
2	8	2104.602 Salvage and Reinstall Mailbox	EA	66	
	9	2104.618 Salvage Brick Driveway Pavers	SF	150	
3	10	2105.607 Common Excavation (EV)	CY	630	
4	11	2105.607 Subgrade Excavation (EV)	CY	280	
5	12	2105.607 Salvage Reclaim Material (LV)	CY	80	
6	13	2105.607 Select Granular Borrow (LV)	CY	370	
7	14	2112.519 Subgrade Preparation	RDST	136.7	
8	15	2130.523 Water	MGAL	50	
9	16	2211.509 Aggregate Base Class 5	TN	100	
10	17	2211.607 Place Salvaged Reclaim Material (CV)	CY	40	
	18	2215.504 Full Depth Reclamation	SY	37,600	
	19	2232.504 Mill Bituminous Surface (1.5")	SY	80	
	20	2357.506 Bituminous Material For Tack Coat	Gal	1,900	
	21	2360.509 Type SP 9.5 Wearing Course Mix (2,C)	TN	3,760	
11	22	2360.509 Type SP 9.5 Bit Mixture for Patching (2,B)	TN	190	
	23	2360.509 Type SP 12.5 Wearing Course Mixture (2,C)	TN	3,920	
12	24	2451.607 Trench Stabilization Material (CV)	CY	20	
	25	2501.502 18" RC Pipe Apron & Grate	EA	18	
	26	2501.502 18" RC Safety Apron & Grate	EA	2	
	27	2501.502 18" CS Pipe Apron & Grate	EA	4	
	28	2501.502 18" CS Safety Apron and Grate Des 3128	EA	4	
	29	2501.503 18" RC Pipe Culvert Class V	LF	420	
	30	2501.503 18" Ductile Iron Pipe Culvert CL 52	LF	180	
13	31	2503.603 Clean & Televisе Storm Sewer and Culverts	LF	420	
14	32	2504.602 Irrigation System Modifications	EA	120	
	33	2531.504 6" Concrete Driveway Pavement	SY	290	
	34	2540.618 Install Brick Pavers	SF	150	
	35	2557.603 Install Wood Rail Fence	LF	25	
	36	2563.601 Traffic Control	LS	1.00	
	37	2573.502 Storm Drain Inlet Protection	EA	5	
	38	2573.503 Sediment Control Log Type Wood Chip	LF	600	
	39	2573.607 Rock Ditch Check - 1.5" Nom. Diameter	CY	10	
15	40	2574.507 Loam Topsoil Borrow (LV)	CY	1,250	
16	41	2574.508 Fertilizer Type 3	LB	520	
17	42	2575.504 Rolled Erosion Prevention Category 30	SY	770	
18	43	2575.505 Weed Spraying	ACRE	2.60	
	44	2575.505 Seeding	ACRE	2.60	
	45	2575.508 Hydraulic Mulch Matrix	LB	6,500	
	46	2575.508 Seed Mixture 25-151	LB	520	

C.P. 25-11B Notes:

1. Regardless of depth.
2. Includes salvage and reinstall of existing mailbox, and temporary placement of mailbox in barrel at each existing location during construction.
3. For all excavation except subgrade excavation. Dispose excess and/or unsuitable material off-site.
4. For exc. beneath reclaimed agg. base where profile lowered or unsuitable material discovered. Dispose excess and/or unsuitable material off-site.
5. For excavating / hauling / stockpiling and disposing (if excess) reclaim material in areas of subgrade correction or excess material.
6. Only to be used if sufficient material not generated on-site for subgrade excavation backfill, if necessary.
7. Includes grading reclaim material from areas of excess to areas requiring material, under curb/shoulder, fine grading, and compacting reclaimed aggregate base.
8. For dust control only as directed by the engineer. Water to achieve compaction shall be incidental.
9. For material imported from outside project limits. Class 7 reclaim acceptable. Item includes furnishing, hauling, placing and compacting.
10. Includes loading / hauling / placing / grading / compacting salvaged reclaim material in areas of subgrade exc. or correction.
11. Type SP 9.5 for driveway aprons.
12. Rock shall be 1.5" nominal diameter. Use under utility pipe and structures if water table is high.
13. Only clean and televisе RCP culverts. DIP culverts are not to be televised.
14. Based upon number or irrigation heads removed / replaced. Item shall include all items necessary to temporarily cap existing systems, replace damaged lines, heads, adjust systems, and return them to pre-project condition or better. Work shall be performed by a licensed irrigation contractor.
15. Topsoil placed along bituminous edge shall be installed with shouldering machine after wear course is paved
16. Application rate 200 lb/acre. Analysis 22-5-10.
17. Straw or wood fiber blanket is an acceptable alternative. Netting material shall be jute netting.
18. Only to be used if requested by engineer prior to or during site restoration.

BASIS OF ESTIMATED QUANTITIES

Bituminous Wear Course	120	# / SY / inch
Bit. Non-Wear Course	120	# / SY / inch
Aggregate Base, Class 5	110	# / SY / inch
Tack Coat	0.05	Gal / SY
Hydraulic Mulch Matrix	2500	# / acre
Fertilizer Type 3 (Analysis 22-5-10)	200	# / acre
Seed Mixture 25-151	200	# / acre

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DATE MARCH 4TH, 2025

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

EARTH WORK TABLE

City Project 25-11B - Indian Meadows and Fox Meadows

Aggregate Base Class 7 (Reclaim)

Existing 2.5" +/- of bituminous and 4"-5" +/- aggregate base based on road cores
Reclaim 6"-7" deep

Roadway Length = 13,670 LF
Existing Bituminous Area (24') = 37,600 SY

Salvaged Reclaim

Volume of salvaged reclaim material = 0 CY (CV)
Volume of salvaged reclaim material = 47 CY (CV)
Total Salvaged Reclaim = 47 CY (CV)
80 CY (LV)

6" salvage in areas of subgrade / profile lowering 0 LF x 24' wide
6" salvage in areas of subgrade correction, if necessary 90 LF x 24' wide
Available material to be re-used on-site
1.5 expansion factor assumed from CV to LV.

Salvaged Reclaim / Class 5 Required

Volume required in subgrade exc. Areas (5" min.) = 0 CY (CV)
Volume required in subgrade correction Areas (5" min.) = 39 CY (CV)
Total Salvaged Reclaim / Class 5 Required 39 CY (CV)

5" minimum
5" minimum

Subgrade Excavation

Volume of subgrade exc. material for profile lowering = 0 CY (EV)
Volume of subgrade exc. material - correction areas = 280 CY (EV)
Total Salvaged Reclaim = 280 CY (EV)

Assume 3' depth in correction excavation

Common Excavation

Volume of common exc. material road edge = 540 CY (EV)
Volume of common exc. material - culvert daylight = 90 CY (EV)
Total Common Excavation = 630 CY (EV)

Excavate 2' wide x 3" along all existing bituminous edges.
Excavate culvert aprons to daylight as necessary

Topsoil Borrow

Volume of topsoil borrow along road edge = 800 CY (CV)
Volume of topsoil borrow adjacent to culverts = 90 CY (CV)
Total Loam Topsoil Borrow = 890 CY (CV)

3' wide x 3" deep along rural edges. Utilize any salvaged excavation material if suitable.
Assume 3 CY at each flared end section / ditch area to daylight

EARTHWORK SUMMARY

Reclaimed Aggregate Base

Volume of salvaged reclaim material available = 47 CY (CV)
Volume of required reclaim material = 39 CY (CV)
Balance of reclaim material = 8 CY (CV)
20 CY (LV)

Haul out and dispose of excess. Excess property of contractor

Common Excavation

630 CY (EV)

Haul out and dispose of unsuitable and excess material off-site.

Subgrade Excavation

280 CY (EV)

Haul out and dispose of unsuitable and excess material off-site.

Topsoil Borrow

890 CY (CV)
1,250 CY (LV)

Select Granular Borrow

370 CY (LV)

For backfill of subgrade correction. Only used if sufficient material not generated on-site.

Excess Excavation Material to Dispose of Off-Site

740 CY (EV)
970 CY (LV)

Excess reclaim, and assumed 80% of common exc material and subgrade exc material

Swell Factors

EV to LV = 1.3

LV to CV = 1.4

LV to CV = 1.5 (For reclaimed material)

1 CY Class 5 = 2 tons (147 #/CF)

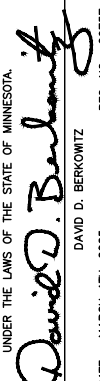
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CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

GENERAL NOTES:

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. CITY OF ANDOVER 2025 UTILITY AND STREET CONSTRUCTION SPECIFICATIONS SHALL APPLY.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD)" AND THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL", NEWEST ADDITIONS.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR IS REQUIRED TO CALL GOPHER ONE CALL AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. (651-454-2000)

CONSTRUCTION NOTES:

ROAD WORK AHEAD SIGNS SHALL BE MAINTAINED AT ALL INTERSECTING ROADS TO THE PROJECT. TYPE B CHANNELIZERS SHALL BE USED IN ALL NECESSARY LOCATIONS. TRAIL CLOSED SIGNS ON TYPE III BARRICADES SHALL BE PLACED AT ALL LOCATIONS IMPACTED BY PEDESTRIAN RAMP/SIDEWALK/TRAIL IMPROVEMENTS.

CONSTRUCTION SHALL BE STAGED SUCH THAT TRAFFIC IS MAINTAINED AT ALL TIMES. CONTRACTOR SHALL USE FLAG PERSON, IF NEEDED (INCIDENTAL TO TRAFFIC CONTROL).

COMPACTION OF ALL BITUMINOUS MIXTURE SHALL BE BY THE "SPECIFIED DENSITY METHOD" EXCEPT FOR PATCHES AND TRAILS, WHICH SHALL BE BY THE "ORDINARY COMPACTION METHOD".

THE CONTRACTOR SHALL USE FLAG PERSON'S AND APPROPRIATE TRAFFIC CONTROL DEVICES TO DIRECT TRAFFIC AT INTERSECTING COUNTY ROADS. ALL TRAFFIC CONTROL MUST BE ACCEPTABLE TO THE ANOKA COUNTY HIGHWAY DEPARTMENT. CONTRACTOR SHALL APPLY FOR A PERMIT FOR WORKING WITHIN ANOKA COUNTY RIGHT OF WAY. PROVIDE A COPY OF COUNTY PERMIT TO CITY INSPECTOR.

ABSENT A ROAD SCLOSURE, RECONSTRUCTION SHALL BE PERFORMED IN A MANNER TO ALLOW LOCAL TRAFFIC TO BE MAINTAINED TO A MINIMUM OF HALF THE ROADWAY WIDTH. THE CONTRACTOR SHALL USE FLAG PERSON'S TO DIRECT TRAFFIC AS NEEDED.

CONTRACTOR SHALL PROVIDE 3 DAY NOTICE PRIOR TO POTENTIAL ROAD CLOSURE FOR UNDERGROUND UTILITY CONSTRUCTION. TYPE 3 BARRICADES WITH "ROAD CLOSED" SHALL BE INSTALLED ON BOTH SIDES OF UTILITY CONSTRUCTION ACTIVITY. STAGE CONSTRUCTION TO ALLOW FOR LOCAL RESIDENT ACCESS AS NEEDED.

DURING ALL ASPECTS OF CONSTRUCTION DRIVEWAYS SHALL BE RAMPED WITH GRAVEL IN A TIMELY MANNER TO PROVIDE RESIDENTS ACCESS. UPON THREE DAYS OF CURE, CONC. CURBING AT DRIVEWAYS SHALL BE BACKFILLED & RAMPED WITH GRAVEL TO PROVIDE ACCESS.

DURING THE CONSTRUCTION OF CONC. CURB & DRIVEWAYS, THE CONTRACTOR SHALL COORDINATE WITH ENGINEER TO NOTIFY RESIDENTS OF PENDING CONSTRUCTION ACTIVITY. A THREE DAY NOTICE IS REQUIRED PRIOR TO POURING CONC. CURB & DRIVEWAYS. IMMEDIATELY UPON COMPLETION THE ROADWAY SHALL BE GRADED TO ALLOW RESIDENTS TO PARK ON STREET ADJACENT TO THEIR PROPERTY.

CONCRETE CURBING SHALL BE KNOCKED DOWN AT ALL DRIVEWAY ENTRANCES (INCIDENTAL). CONSTRUCT B618 C&G ON ALL RADII, CATCH BASIN LOCATIONS & ADDITIONAL LOCATIONS AS NOTED ON PLAN. (PAID AS SURMOUNTABLE C&G).

EXISTING MAILBOXES SHALL BE SALVAGED AND REINSTALLED. DURING CONSTRUCTION TEMPORARY MAILBOXES SHALL BE PLACED NEAR THE ORIGINAL MAILBOX LOCATION. THE TEMPORARY MAILBOXES SHALL BE MOUNTED ON BARRELS TO BE PORTABLE. PROPERTY OWNER MAY SUPPLY NEW POST AND/OR BOX TO BE PLACED IN THE ORIGINAL LOCATION.

RESIDENTS WILL BE ASKED TO MARK SPRINKLER HEADS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SYSTEMS. WHERE BOULEVARD IRRIGATION MODIFICATIONS ARE REQUIRED THE IRRIGATION LINES/HEADS SHALL BE REMOVED & DISPOSED. REMAINING LINES SHALL BE PLUGGED & MARKED. ALL REPLACED IRRIGATION LINES/HEADS SHALL BE WITH NEW COMMERCIAL GRADE MATERIALS. CONTRACTOR WILL BE PAID A UNIT PER HEAD REPLACED. EXISTING LOCATIONS SHOWN ON PLANS ARE ONLY SCHEMATIC. ALL WORK SHALL BE BY AN IRRIGATION CONTRACTOR LICENSED TO WORK IN THE CITY OF ANDOVER.

THE CONTRACTOR SHALL PROTECT, SALVAGE AND REPAIR ALL EXISTING LANDSCAPING IN KIND. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE FOLLOWING CONSTRUCTION ITEM'S SHALL OCCUR PRIOR TO COMMENCING THE RECLAIMING OPERATION. INSTALL TRAFFIC CONTROL, REMOVE STREET SIGN'S (CITY), INSTALL TEMP. EROSION CONTROL MEASURES, IDENTIFY & CAP IRRIGATION SYSTEMS, SALVAGE LANDSCAPING, REMOVE EX. & INSTALL TEMP. MAILBOX'S, EXCAVATE BOULEVARD MATERIAL PER TYPICAL SECTION.

EXISTING DRIVEWAYS SHALL BE SAWCUT AS DIRECTED BY ENGINEER, REMOVED AND DISPOSED OF OFF SITE . BITUMINOUS AND CONCRETE DRIVEWAYS SHALL BE REPLACED IN KIND. GRAVEL DRIVEWAYS SHALL BE REPLACED WITH A 10-15' BITUMINOUS APRON. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITY SHALL BE SAWCUT AND REPAIRED IN KIND AT THE CONTRACTORS EXPENSE.

WHERE SUBGRADE EXCAVATION UTILITY WORK OCCURS WITHIN THE ROADWAY THE RECLAIMED BASE SHALL BE SALVAGED & REPLACED PER THE TYPICAL SECTION (INCIDENTAL). THIS WORKSHALL BE DONE IN A MANNER SO RECLAIMED BASE IS NOT CONTAMINATED WITH SPOIL MATERIAL. COMPACTION OF THE RECLAIMED BASE MATERIAL SHALL BE ACHIEVED BY THE PENETRATION INDEX METHOD IN ACCORDANCE WITH MNDOT 2211.3C3. THE BOTTOM OF THE SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD"

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS TO BACKFILL PROPOSED CURB & GUTTERS. ANY EXCESS MATERIAL, OR MATERIAL WITH DEBRIS / SOD CHUCKS SHALL BE DISPOSED OF OFF-SITE.

ALL DISTURBED AREAS SHALL BE BACKFILLED WITH SALVAGED TOPSOIL, IF ANY. DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, & HYDRAULIC MULCH MATRIX. DISTURBED AREAS ADJACENT TO FLARED END SECTIONS OR AREAS OF CHANNELIZED RUN OFF SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, & EROSION CONTROL BLANKET CATEGORY 30. ALL RESTORATION SHALL OCCUR WITHIN 7 DAYS OF GRADING COMPLETION. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY (INCIDENTAL). RESTORATION WORK SHALL BE COMPLETED ADJACENT TO THE ROADWAY AFTER PAVING WEARING COURSE.

ALL EXISTING SIGNS SHALL BE REMOVED AND REPLACED BY THE ANDOVER SIGN DEPARTMENT UNLESS CALLED OUT OTHERWISE IN THE PLANS. COORDINATE WITH MINIMUM 48 HOUR NOTICE WITH ENGINEER IN FIELD.

CONCRETE WASHOUT SHALL BE CONTAINED WITHIN CONCRETE TRUCKS, NOT DISPOSED OF ON-SITE.

CONTRACTOR SHALL SWEEP ALL MATERIAL OFF ADJACENT STREETS DUE TO CONSTRUCTION ACTIVITY, DAILY AS NECESSARY (INCIDENTAL).

CONTRACTOR IS REQUIRED TO REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES (INCIDENTAL).

CONTRACTOR SHALL REMOVE ALL TEMPORARY SEDIMENT CONTROL PRACTICES ONCE VEGETATION IS RE-ESTABLISHED (INCIDENTAL).

REFER TO SWPPP IN PROJECT SPECIFICATION FOR ADDITIONAL CONSTRUCTION/EROSION CONTROL REQUIREMENTS.

THE CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL MATERIAL, IF ANY, FOR RE-USE (LITTLE IS EXPECTED). RE-USED TOPSOIL SHALL BE CLEAN WITH NO SOD CHUNKS / EXISTING VEGETATION. TOPSOIL STRIPING, IF ANY, SHALL BE CONSIDERED INCIDENTAL.

SELECT EXCAVATED MATERIALS SHALL BE UTILIZED TO THE FULLEST EXTENT WITHIN THE PROJECT LIMITS. MATERIAL FOR BACKFILL SHALL BE FREE OF DEBRIS. EXCESS MATERIAL GENERATED, IF ANY, SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.

WHEN CONNECTING NEW PAVED SURFACING TO ANY IN-PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE PAVEMENTS OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN AT 2(V):1(H) SLOPE TO THE TOP OF THE SUBGRADE.

EXCAVATION AND DISPOSAL OF SOIL/TURF MATERIAL SHALL BE INCIDENTAL TO REMOVAL PAY ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL MINIMIZE EXCAVATION AND DISTURBANCE ALONG THE PROJECT CORRIDOR.

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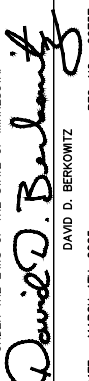
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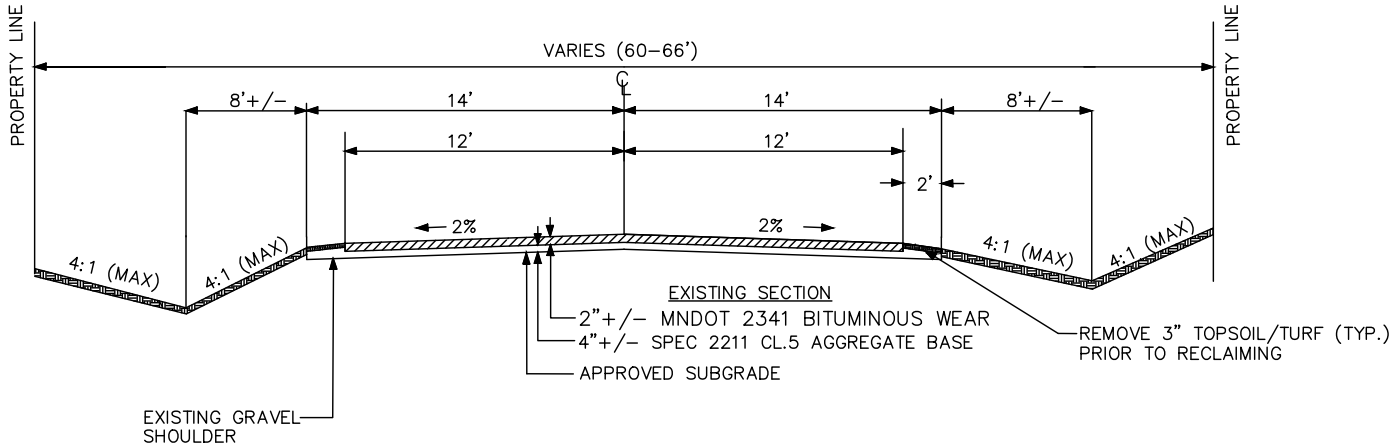
CITY OF
ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

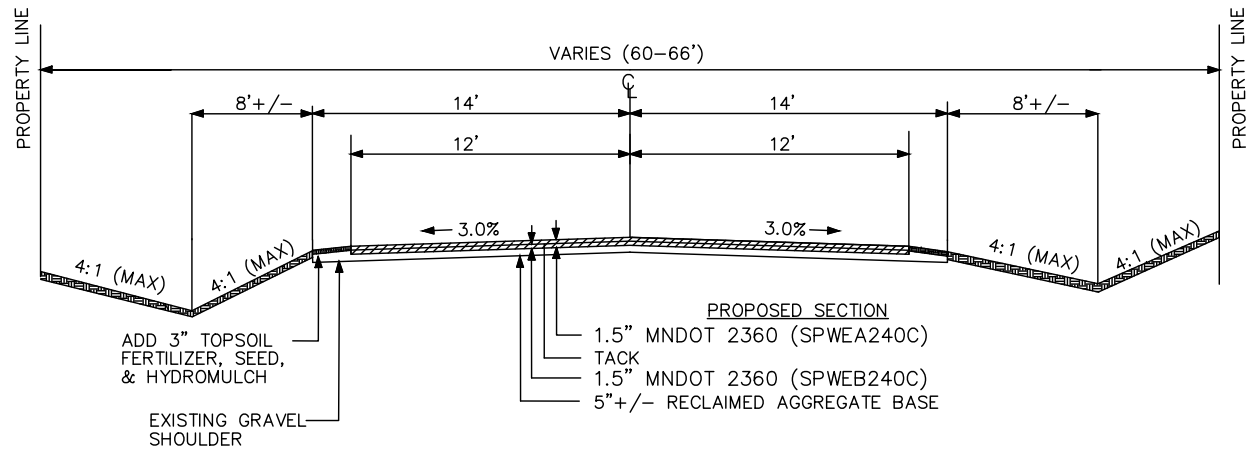
CONSTRUCTION NOTES

SHEET NO. 65 OF 95 SHEETS

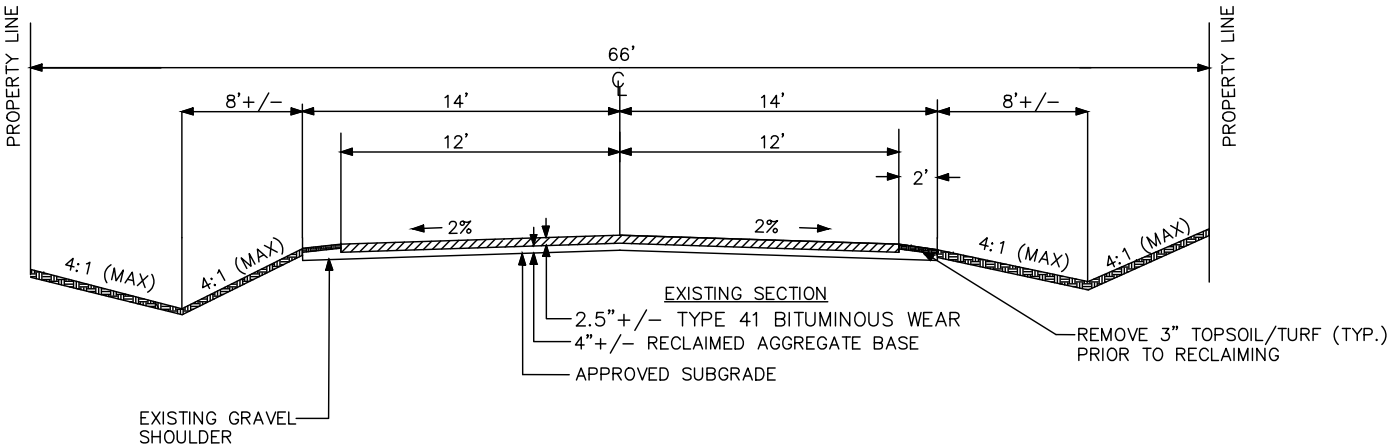
RECLAIM 6" +/- DEPTH, OR AS NECESSARY TO PROVIDE HOMOGENEOUS MIXTURE MEETING GRADATION SPEC IN MNDOT 2215.



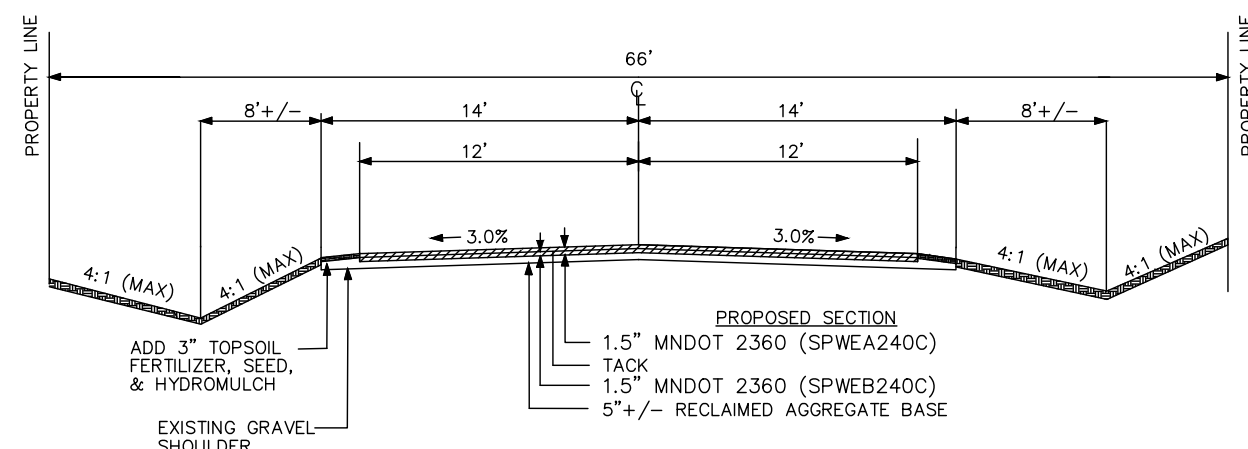
25-11B EXISTING STREET SECTION
FOX MEADOWS



25-11B PROPOSED STREET SECTION
FOX MEADOWS



25-11B EXISTING STREET SECTION
INDIAN MEADOWS



25-11B PROPOSED STREET SECTION
INDIAN MEADOWS

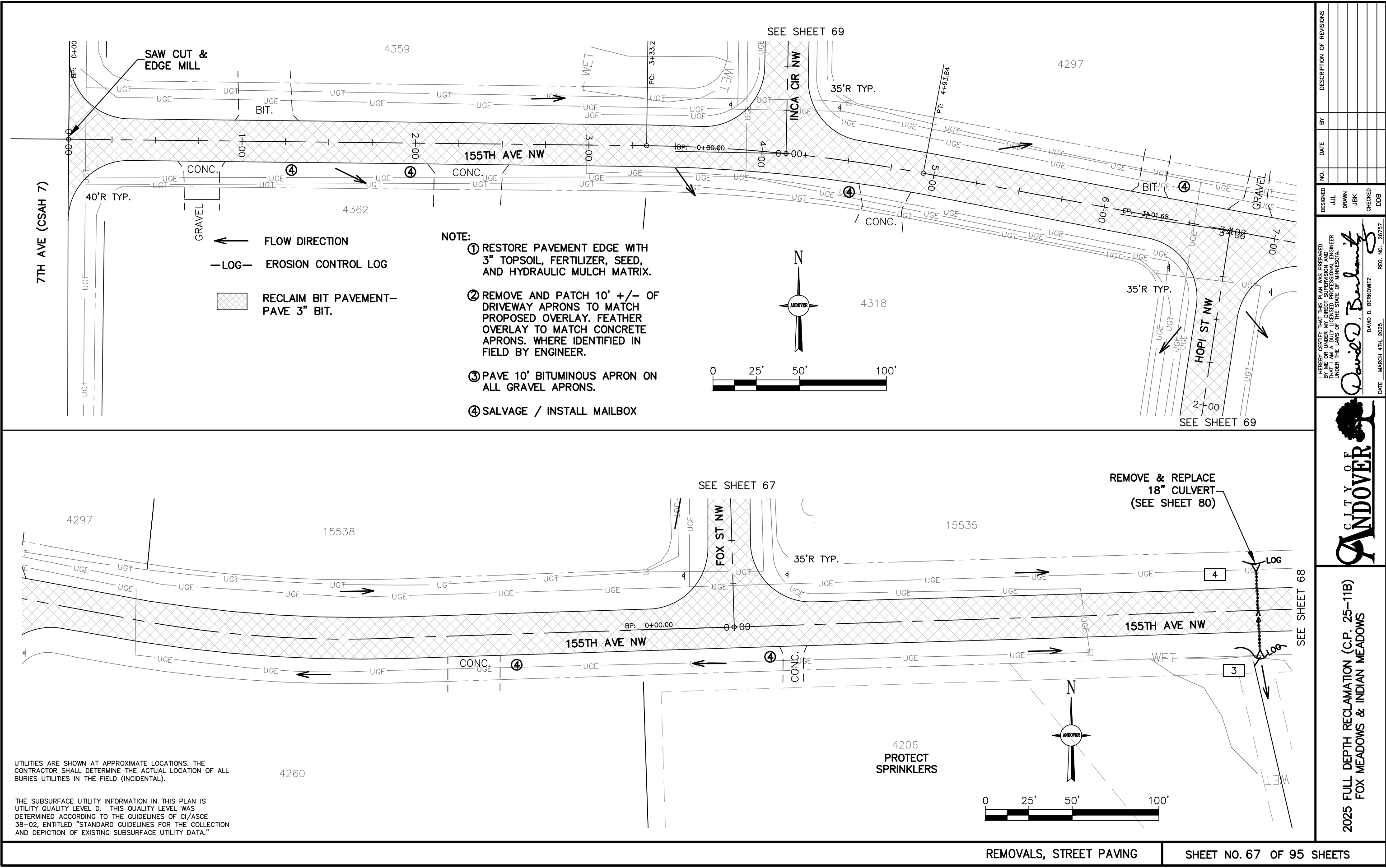
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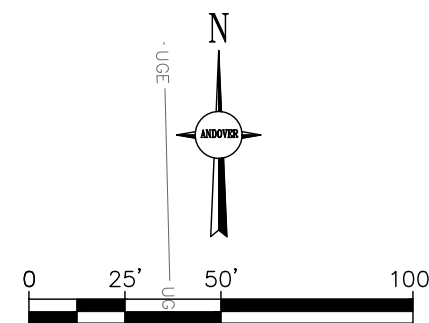
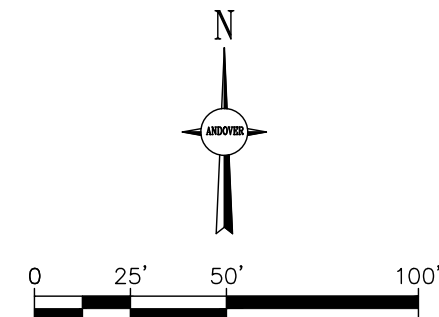
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CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
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REMOVALS, STREET PAVING

SHEET NO. 67 OF 95 SHEETS



THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

- ← FLOW DIRECTION
-  RECLAIM BIT PAVEMENT—
PAVE 3" BIT.
- NOTE:
- ① RESTORE PAVEMENT EDGE WITH 3" TOPSOIL, FERTILIZER, SEED, AND HYDRAULIC MULCH MATRIX.
 - ② REMOVE AND PATCH 10' +/- OF DRIVEWAY APRONS TO MATCH PROPOSED OVERLAY. FEATHER OVERLAY TO MATCH CONCRETE APRONS. WHERE IDENTIFIED IN FIELD BY ENGINEER.
 - ③ PAVE 10' BITUMINOUS APRON ON ALL GRAVEL APRONS.
 - ④ SALVAGE / INSTALL MAILBOX

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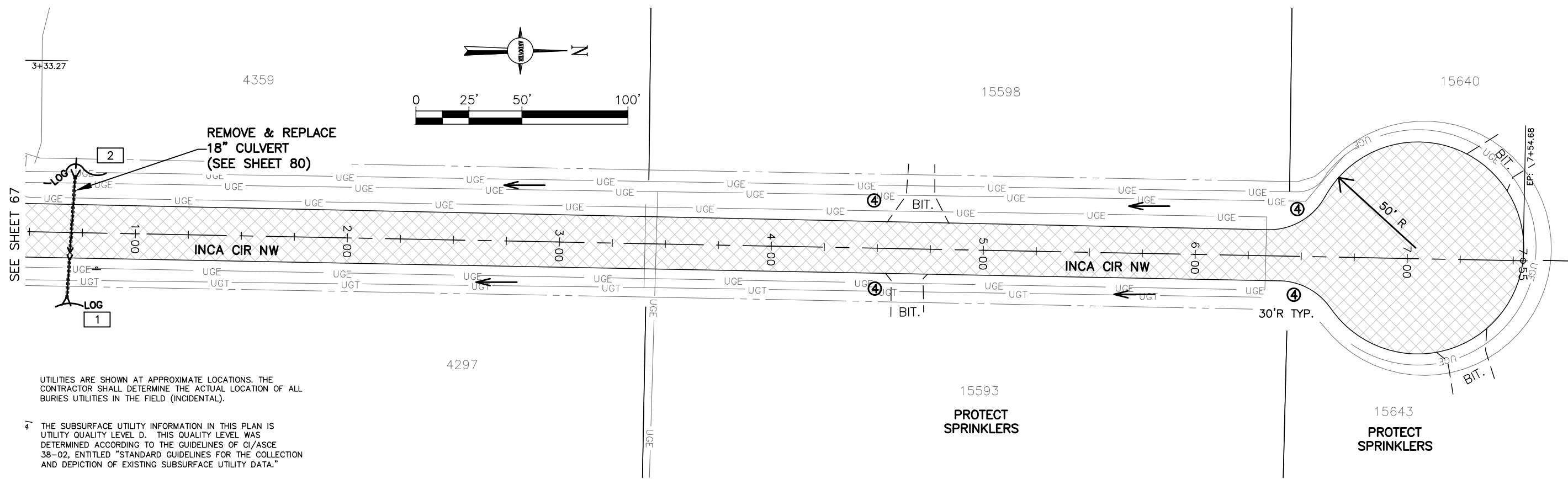
David D. Berkowitz

THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.



2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

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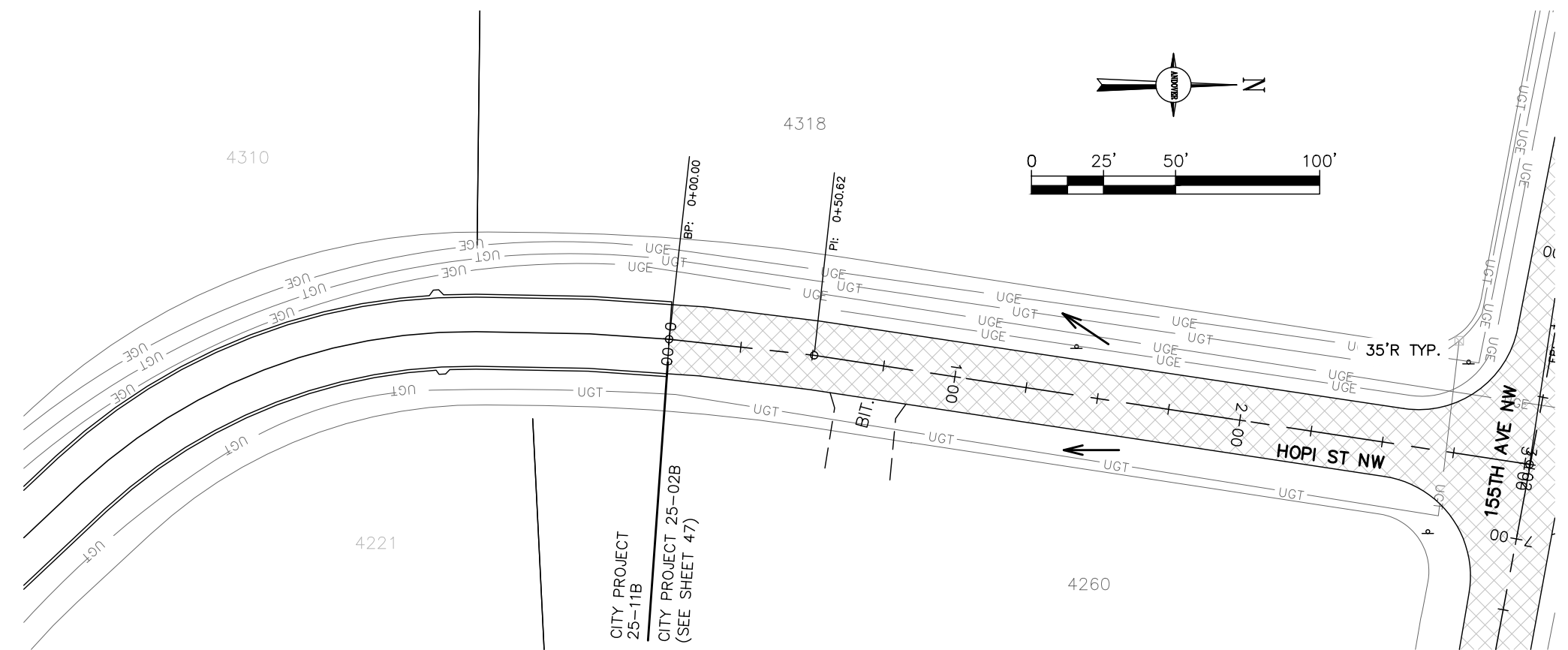


UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL BURIED UTILITIES IN THE FIELD (INCIDENTAL).

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- ← FLOW DIRECTION
- LOG— EROSION CONTROL LOG
- RECLAIM BIT PAVEMENT—PAVE 3" BIT.

- NOTE:
- ① RESTORE PAVEMENT EDGE WITH 3" TOPSOIL, FERTILIZER, SEED, AND HYDRAULIC MULCH MATRIX.
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 - ③ PAVE 10' BITUMINOUS APRON ON ALL GRAVEL APRONS.
 - ④ SALVAGE / INSTALL MAILBOX



2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

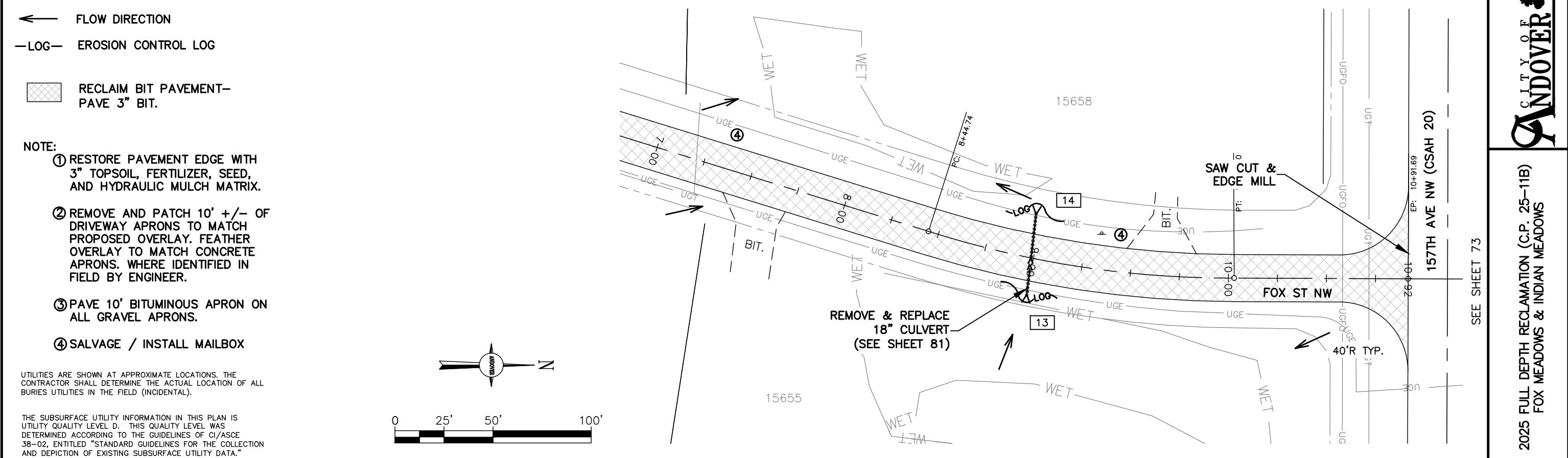
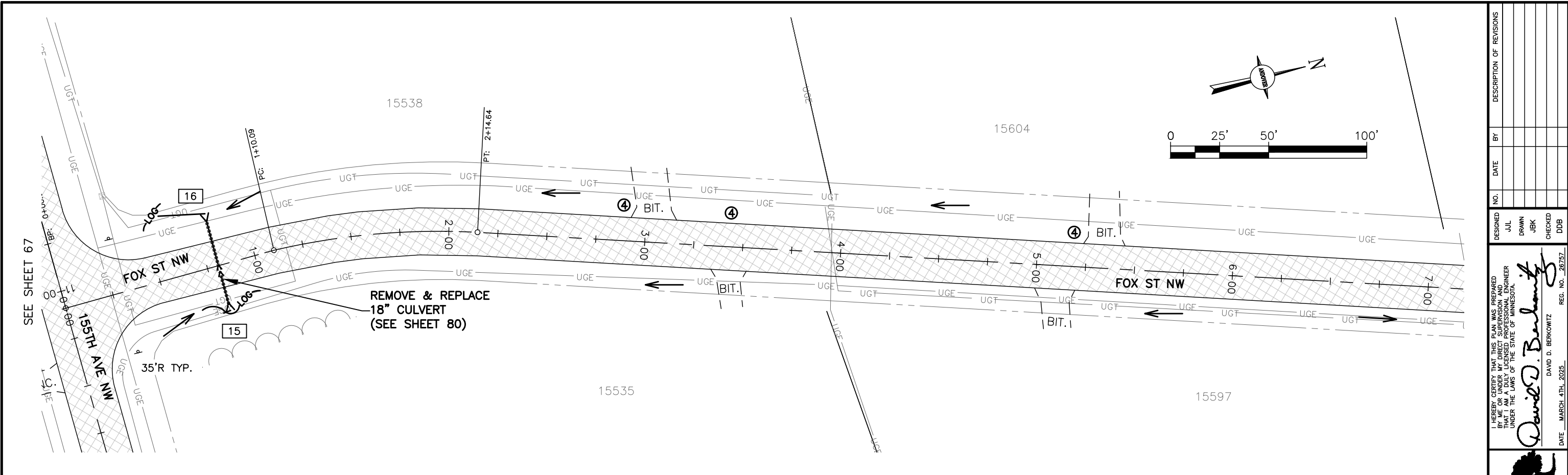
DESIGNED JUL
DRAWN JKB
CHECKED DDB

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Bergowitz

DAVID D. BERGOWITZ
REG. NO. 26757

NO. DATE BY DESCRIPTION OF REVISIONS



← FLOW DIRECTION
—LOG— EROSION CONTROL LOG

RECLAIM BIT PAVEMENT—
PAVE 3" BIT.

NOTE:

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DESIGNED		BY		DATE		NO.		DESCRIPTION OF REVISIONS	
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DRAWN									
CHECKED									
DD									

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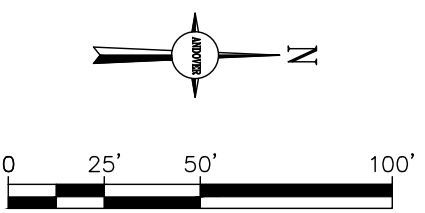
David D. Bergowitz
DAVID D. BERGOWITZ
DATE: MARCH 4TH, 2025
REG. NO. 26757

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

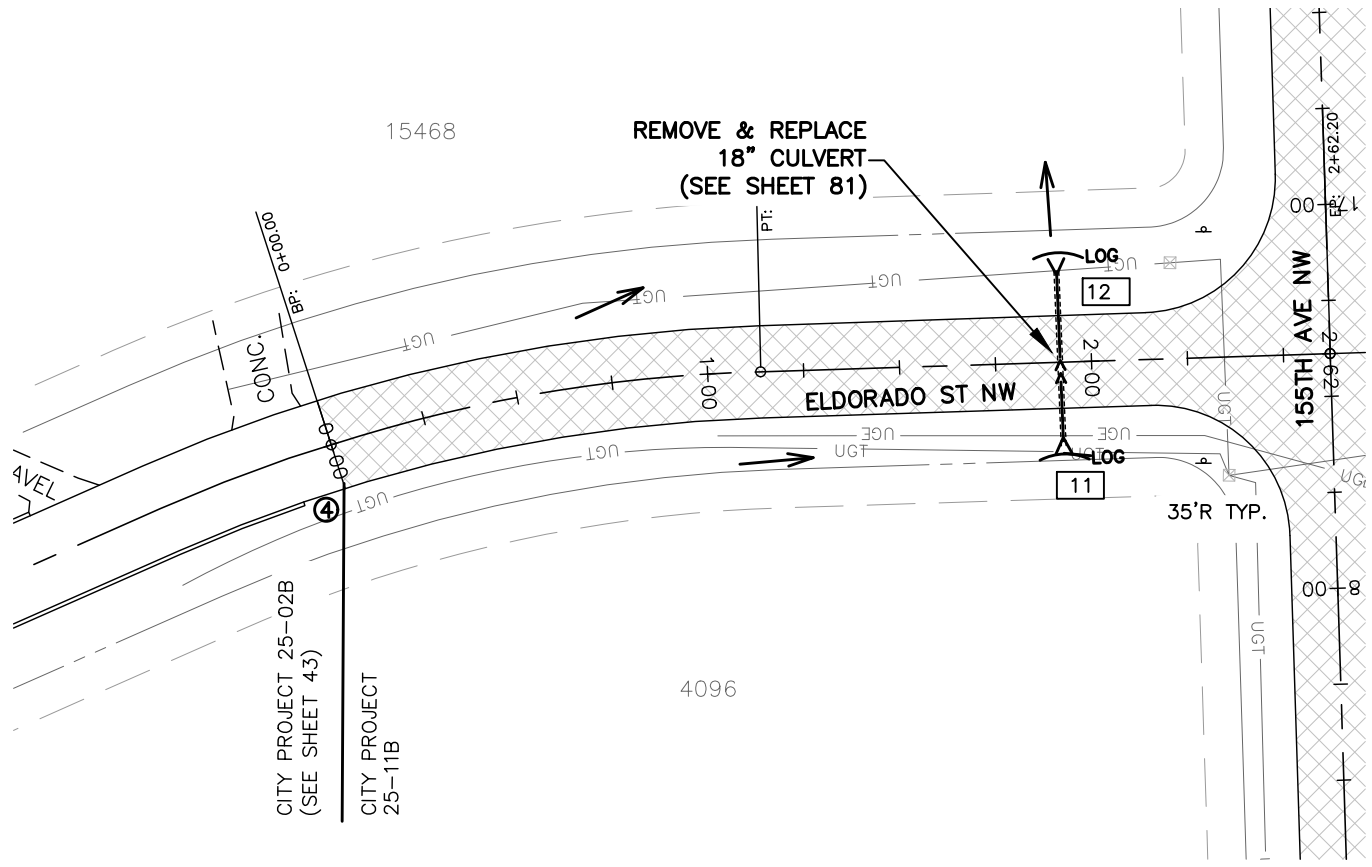
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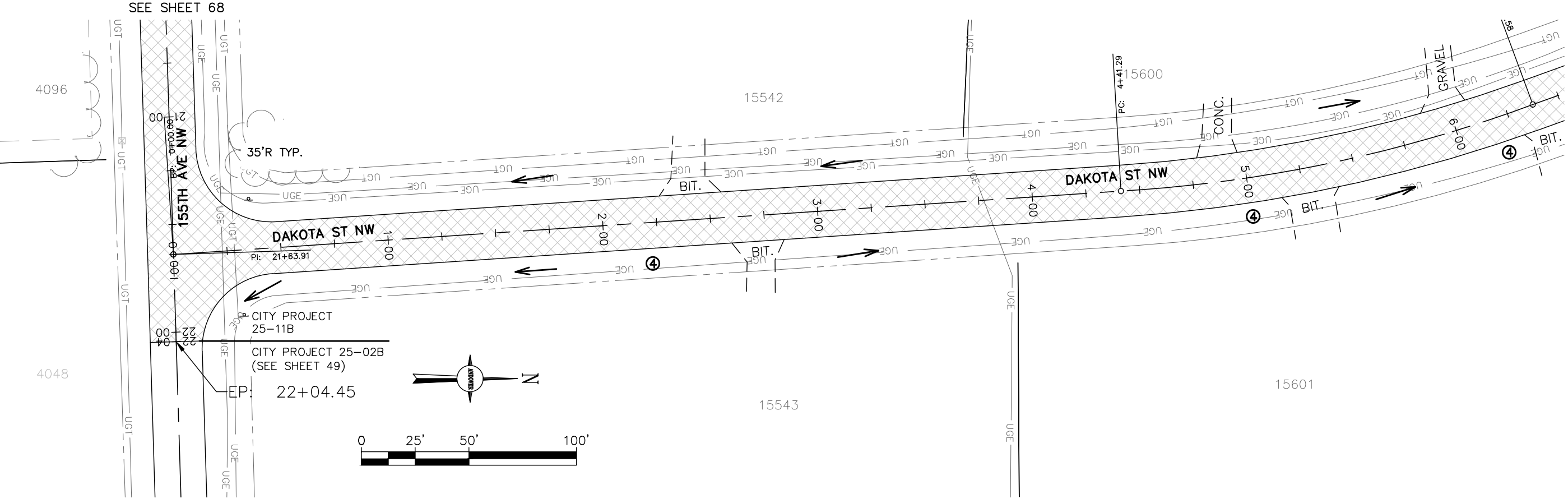


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SEE SHEET 68



SEE SHEET 72

DESIGNED
JUL

DRAWN
JBK

CHECKED
DDB

DATE
MARCH 4TH, 2025

BY
DAVID D. BERKOWITZ

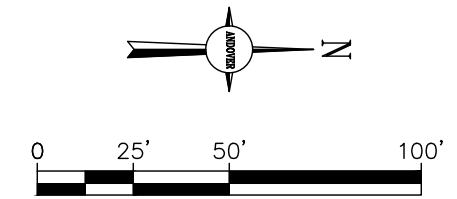
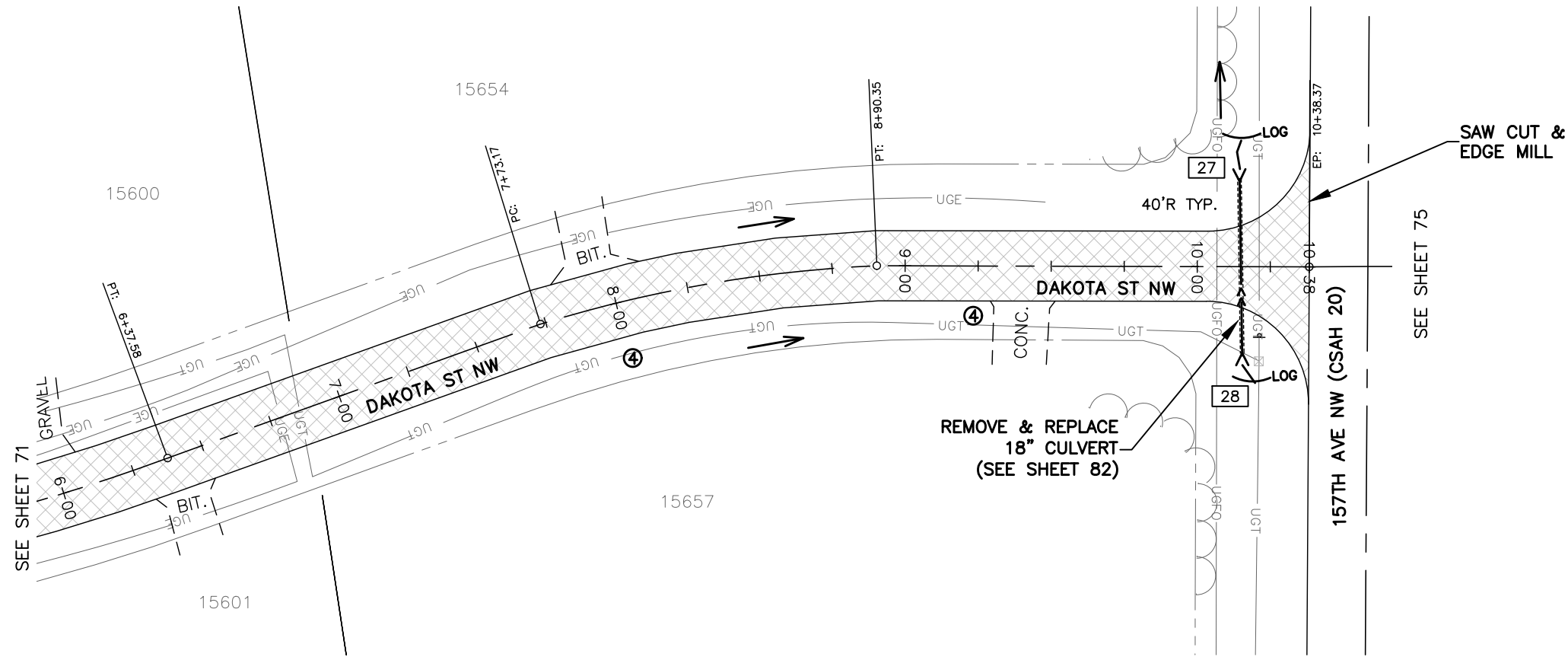
DESCRIPTION OF REVISIONS


CITY OF
ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

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David D. Berkowitz
DAVID D. BERKOWITZ
REG. NO. 26757

DATE
MARCH 4TH, 2025



- ← FLOW DIRECTION
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2025 FULL DEPTH RECLAMATION (C.P. 25-11B)

FOX MEADOWS & INDIAN MEADOWS

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David D. Bergwitz

DAVID D. BERGWITZ

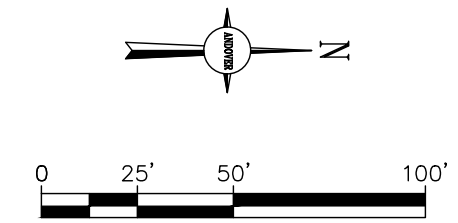
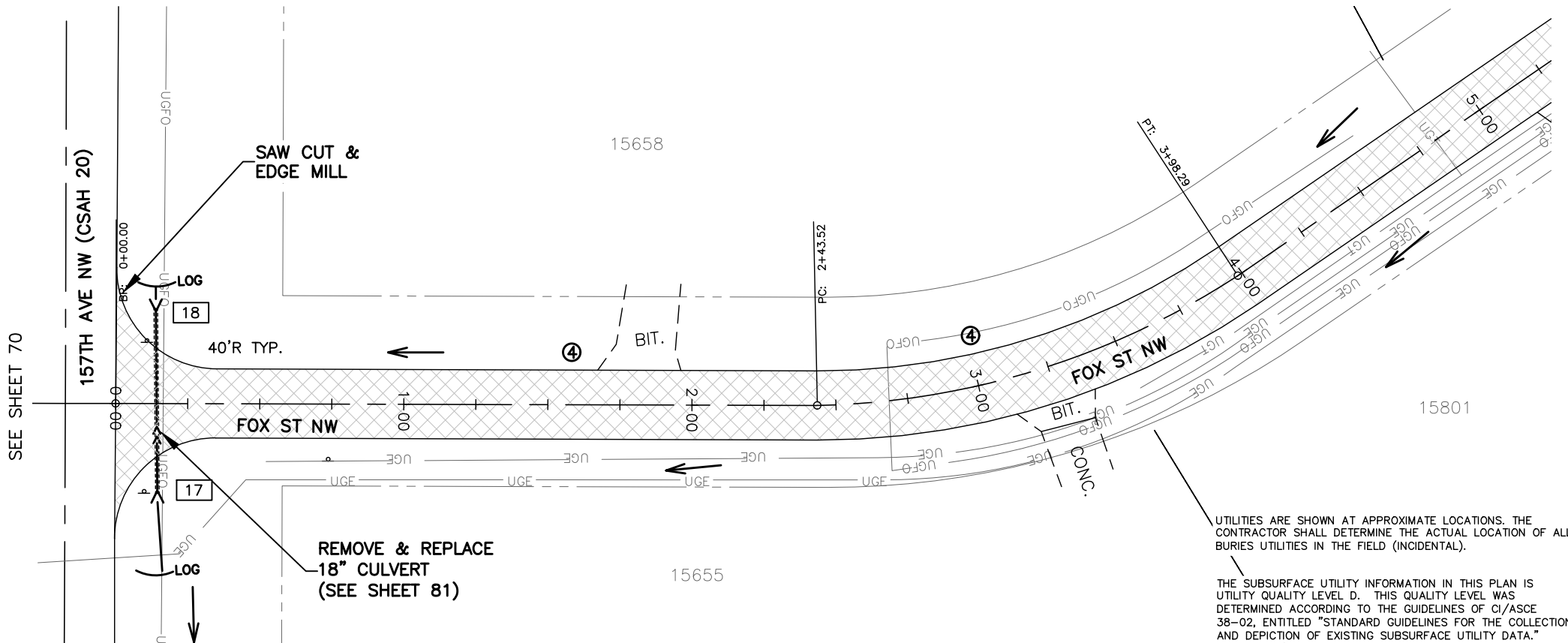
REG. NO. 26757

DATE

MARCH 4TH, 2025

REMOVALS, STREET PAVING

SHEET NO. 72 OF 95 SHEETS



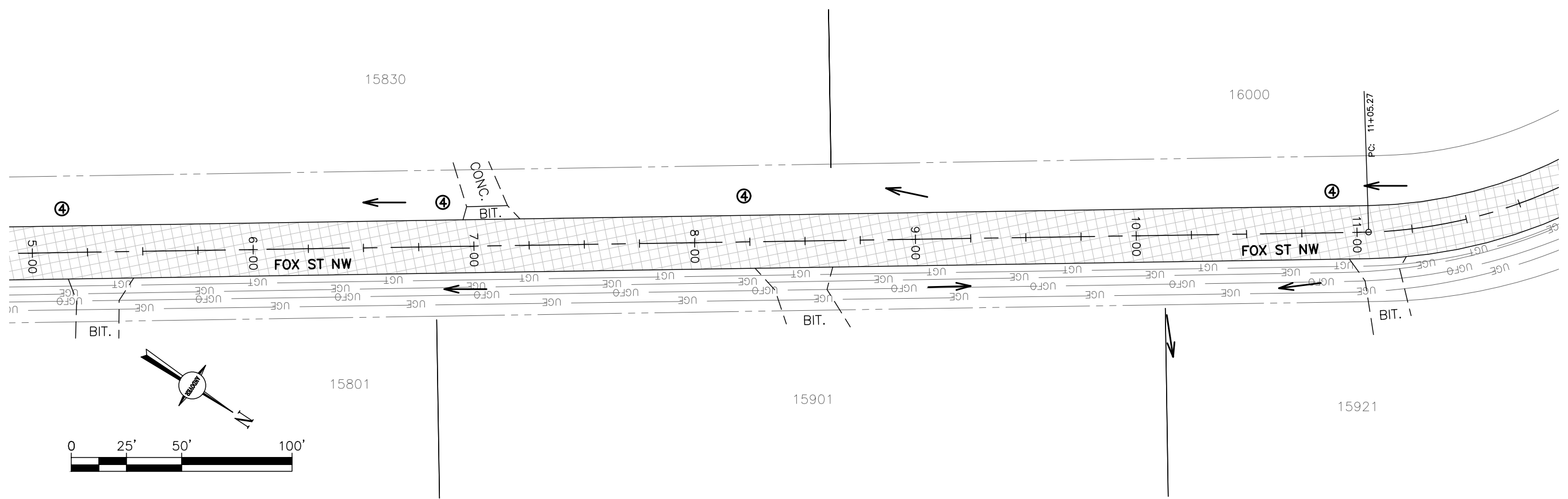
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SEE SHEET 74

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

CITY OF ANDOVER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

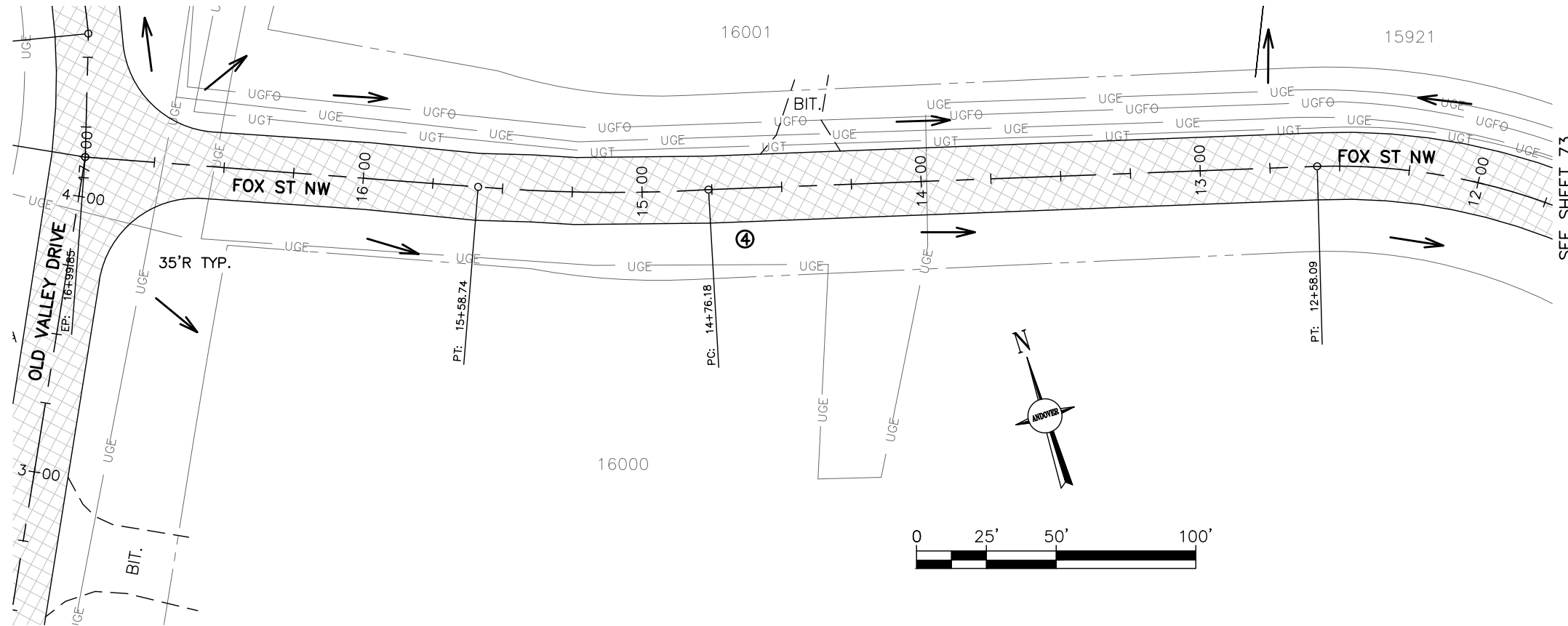
David D. Bergowitz
DAVID D. BERGOWITZ
DATE: MARCH 4TH, 2025 REG. NO. 26757

DESCRIPTION OF REVISIONS	
NO.	BY

DESIGNED	DRAWN	CHECKED	DDB
JUL	JBK		

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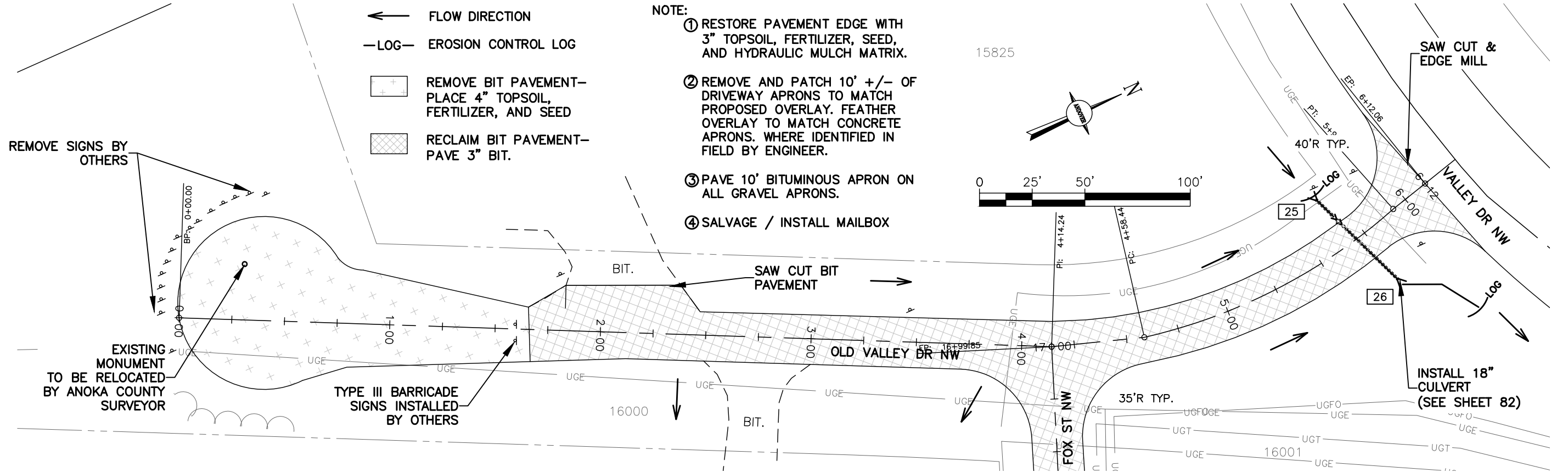


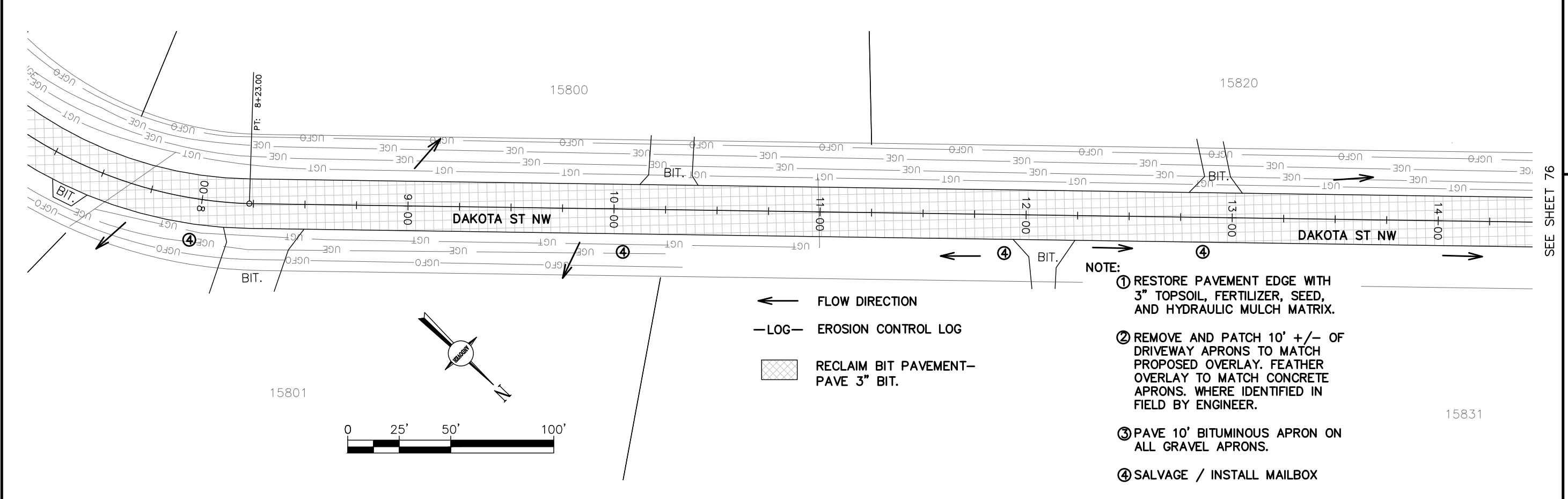
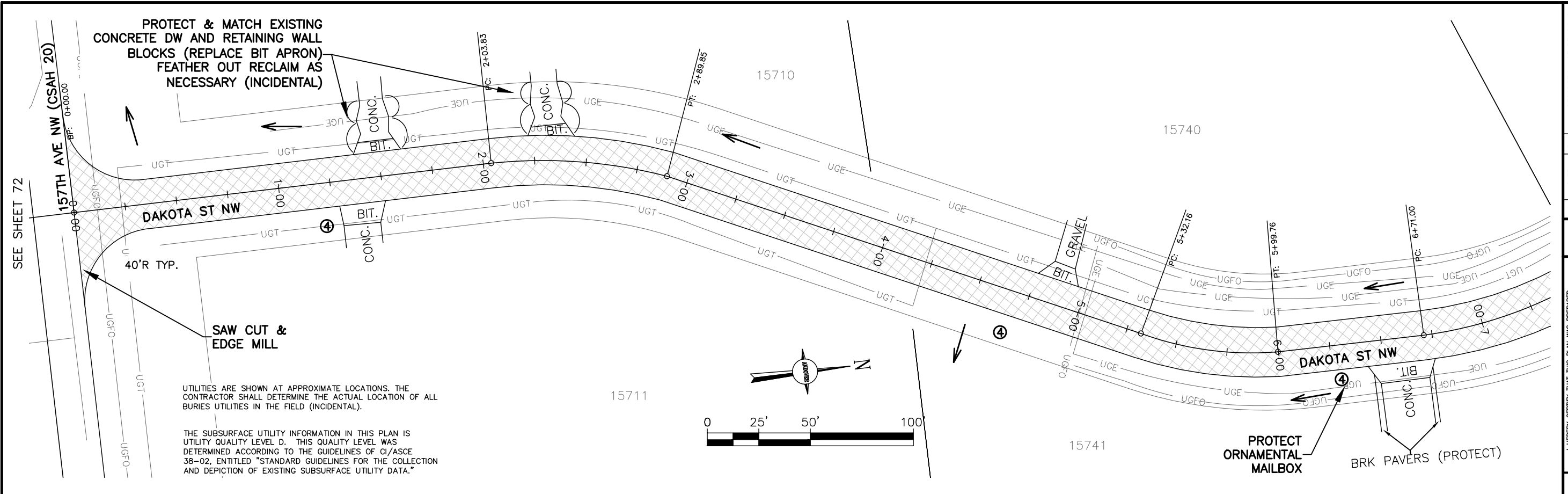
SEE SHEET 73

DESIGNED		DESCRIPTION OF REVISIONS	
NO.	DATE	BY	
1	JUL		
2	DRAWN		
3	JBK		
4	CHECKED		
5	DDB		

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David D. Berkmowitz
DAVID D. BERKMOWITZ
REG. NO. 26757
DATE MARCH 4TH, 2025





- ← FLOW DIRECTION
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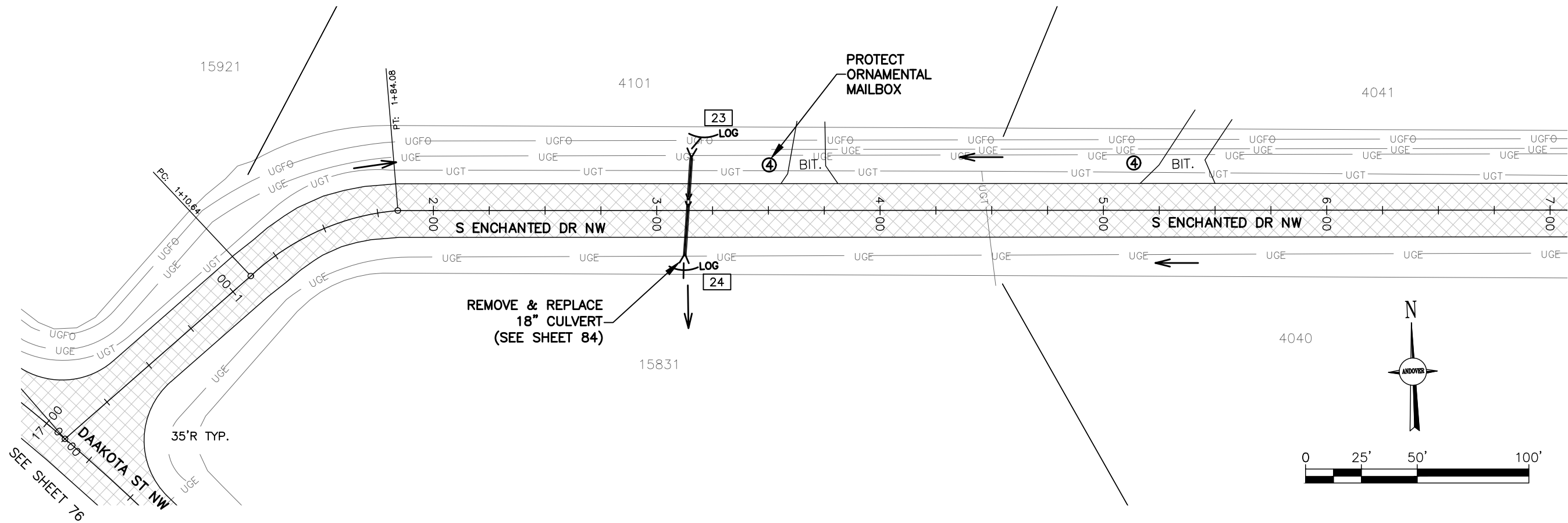
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David D. Bergowitz

DAVID D. BERGOWITZ
DATE: MARCH 4TH, 2025
REG. NO. 26757

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



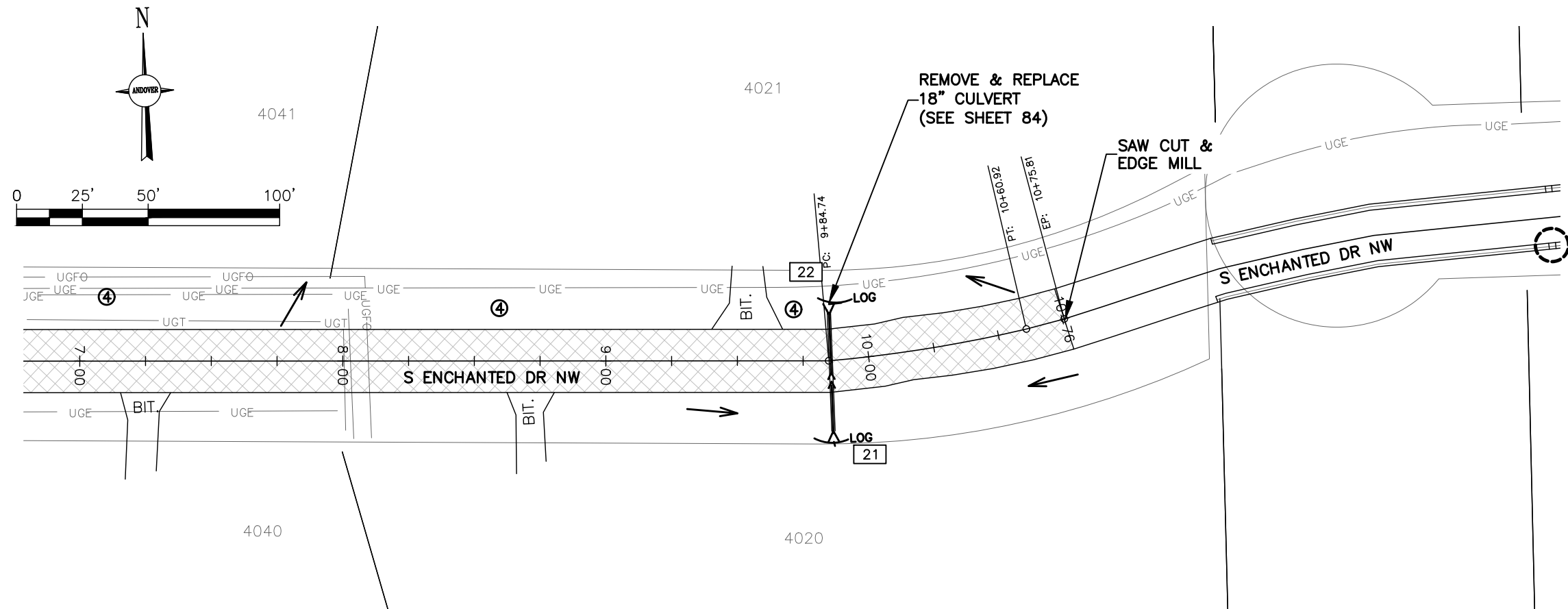
- ← FLOW DIRECTION
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DD			

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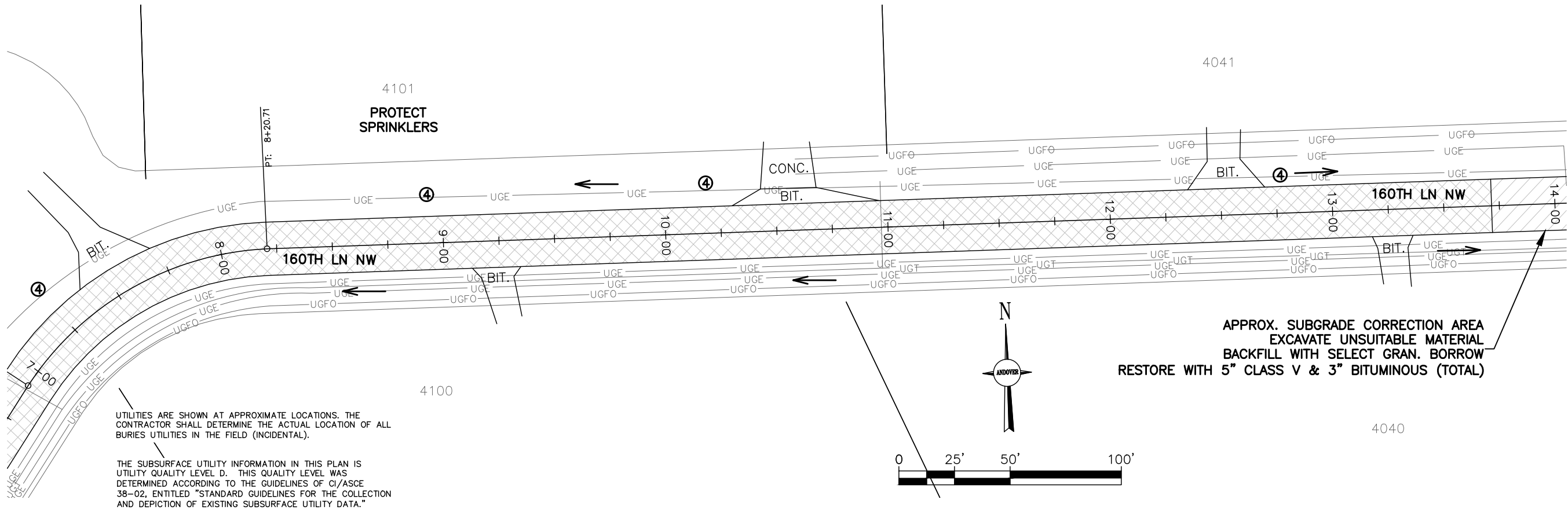
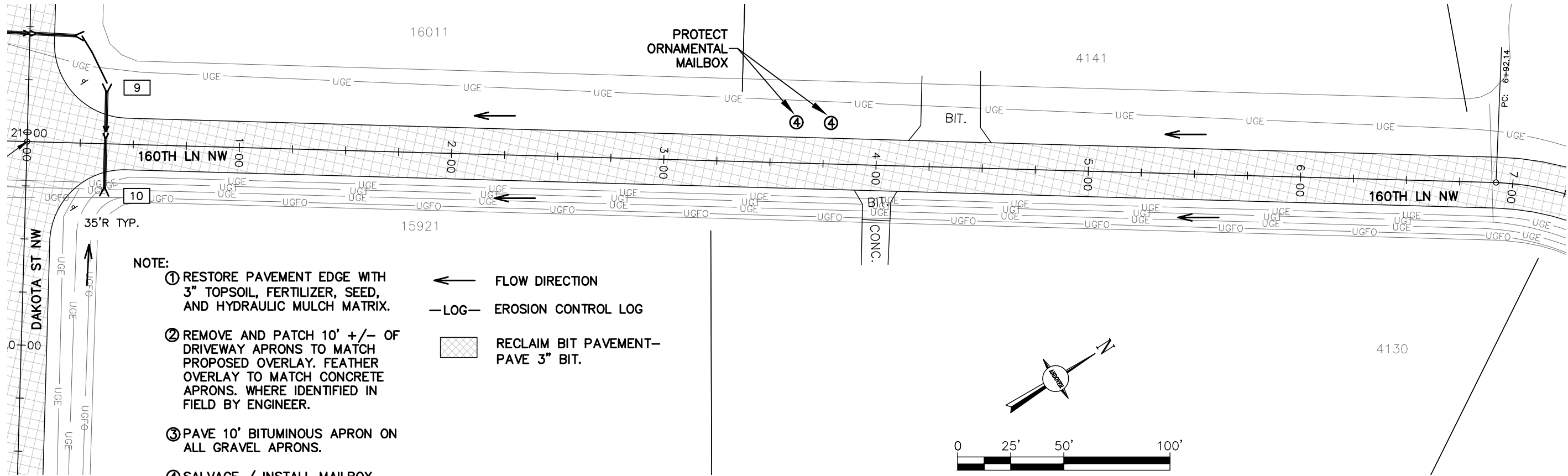
David D. Bergwitz

DAVID D. BERGWITZ
REG. NO. 26757
DATE: MARCH 4TH, 2025



2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

SEE SHEET 76



DESIGNED		BY		DATE		NO.		DESCRIPTION OF REVISIONS	
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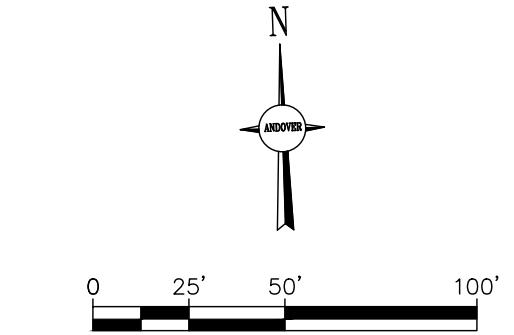
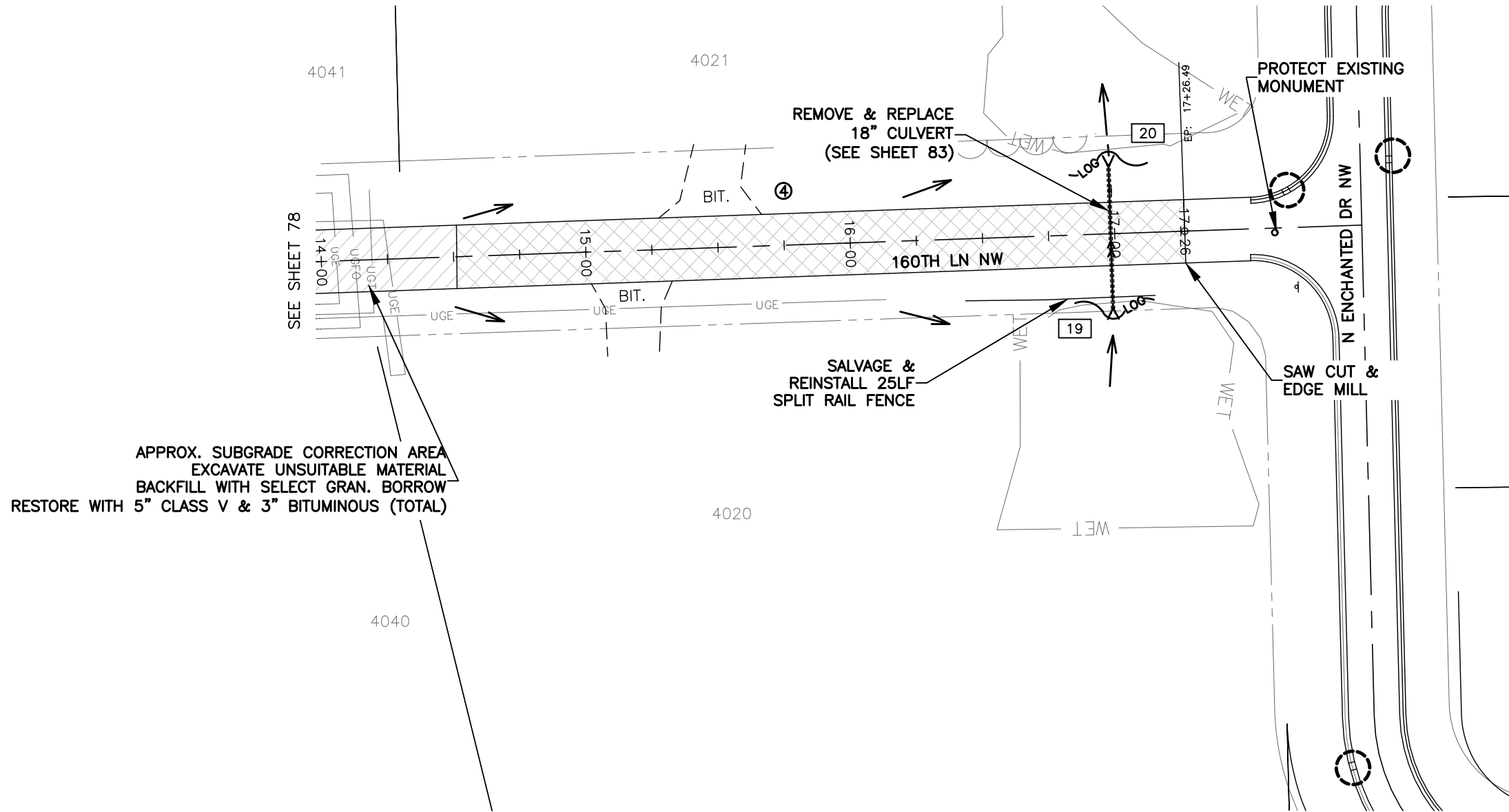
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David D. Berkey

DAVID D. BERKEY
DATE: MARCH 4TH, 2025
REG. NO. 26757

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



- ← FLOW DIRECTION
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- INLET PROTECTION
- ▨ RECLAIM BIT PAVEMENT—
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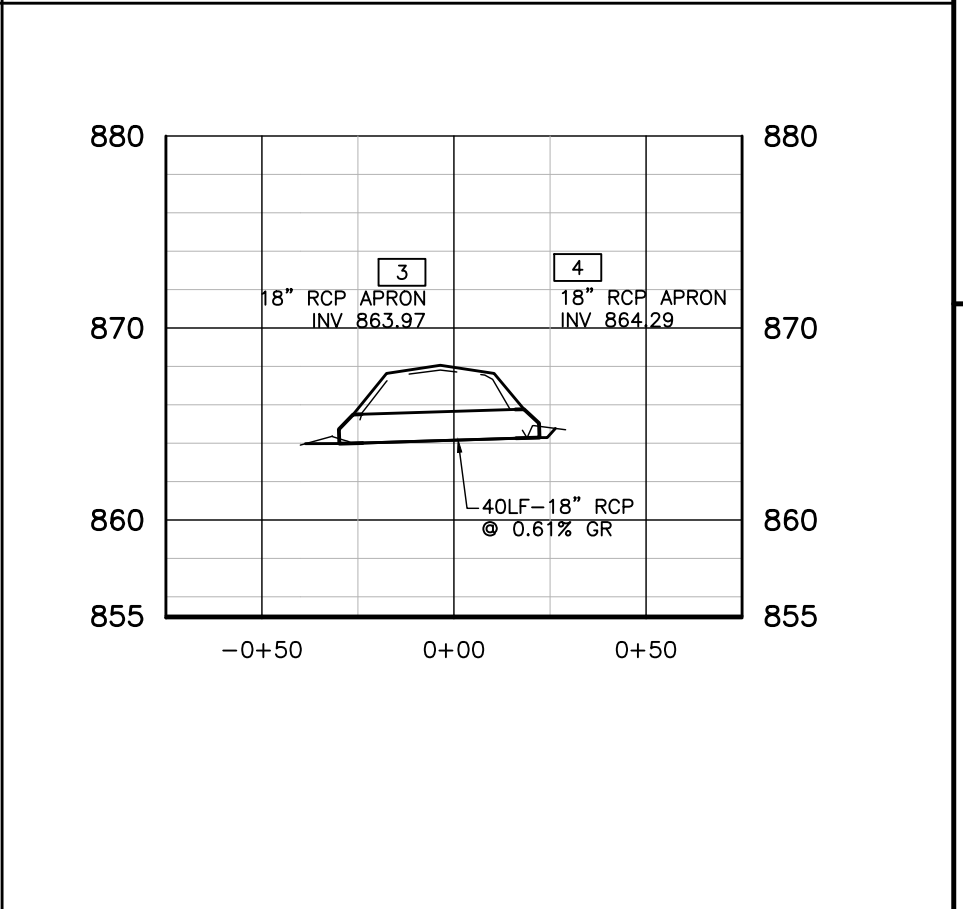
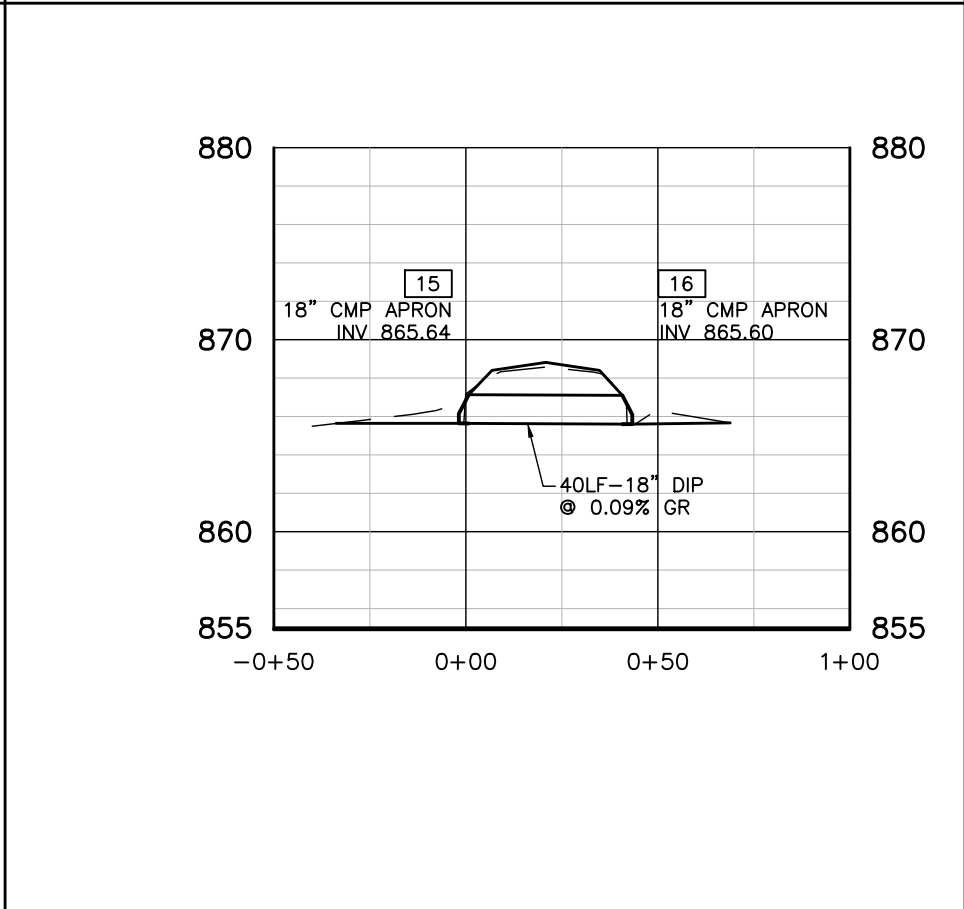
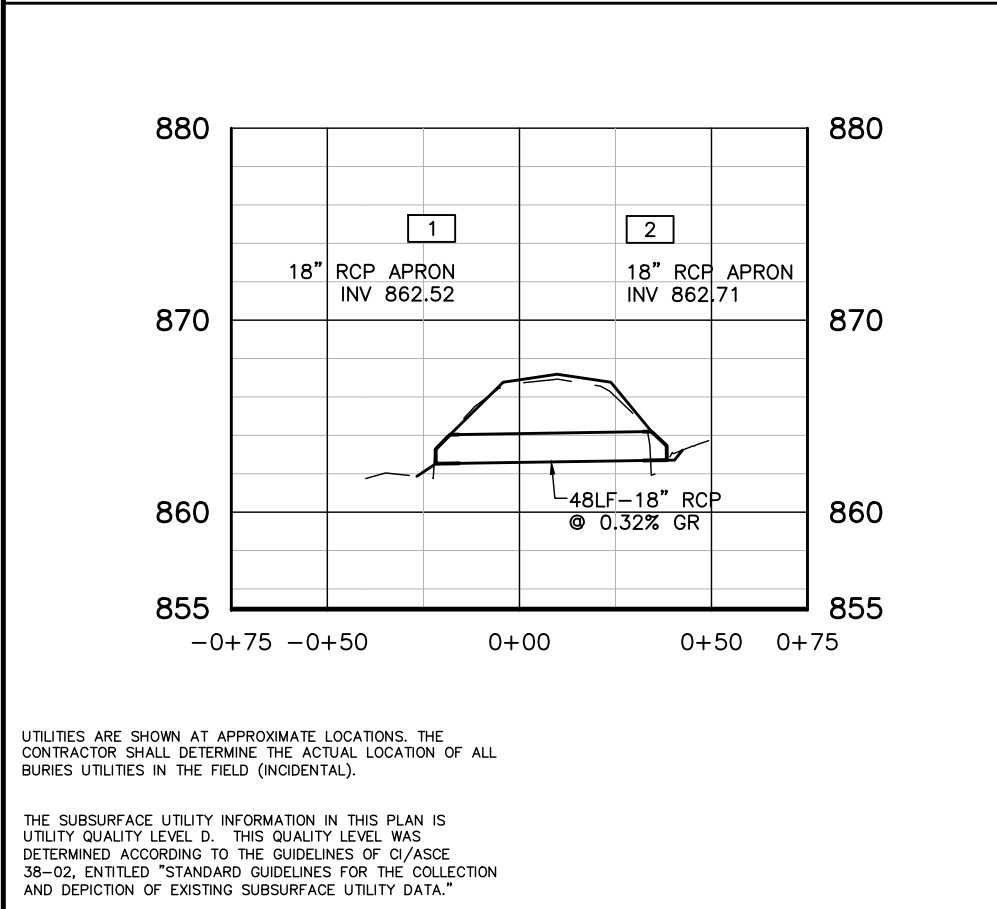
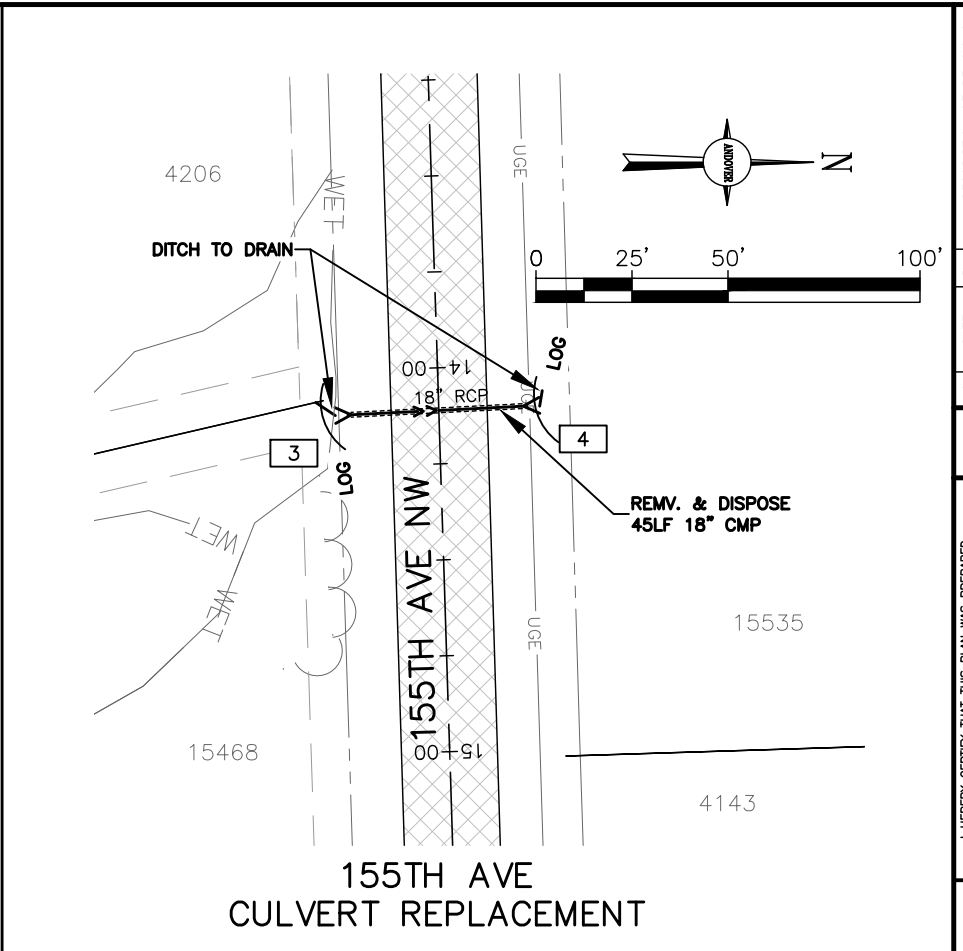
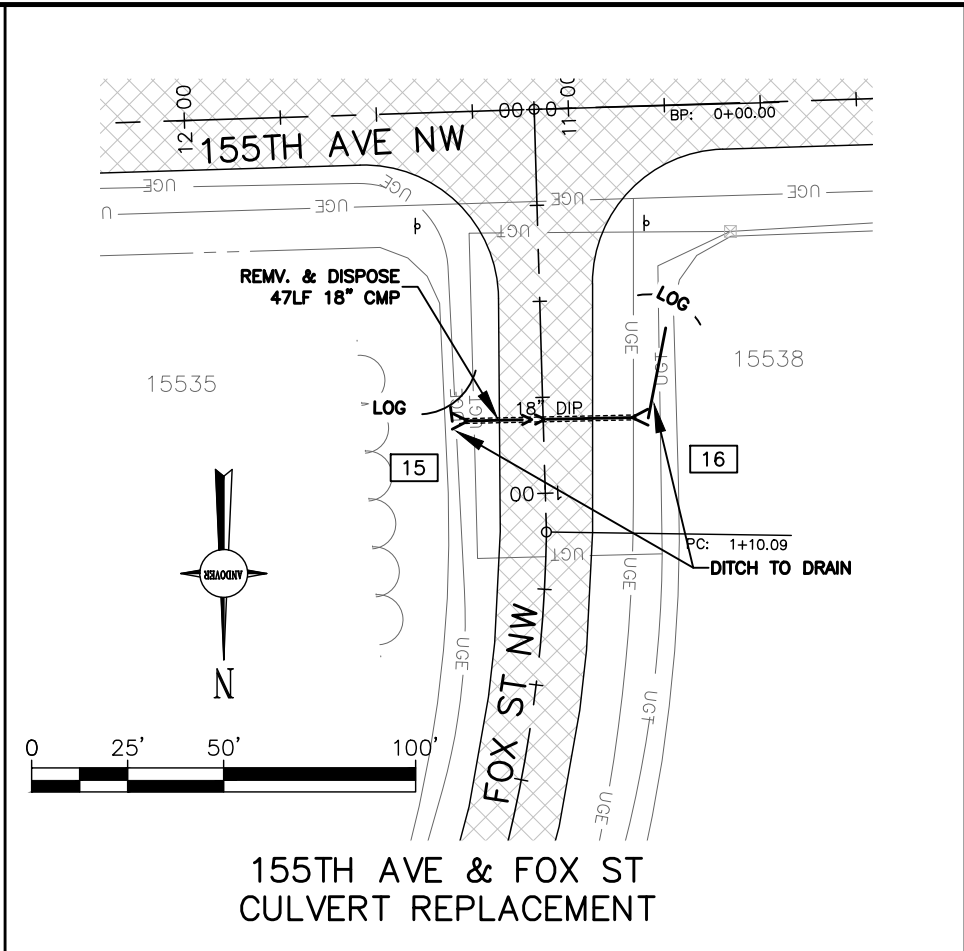
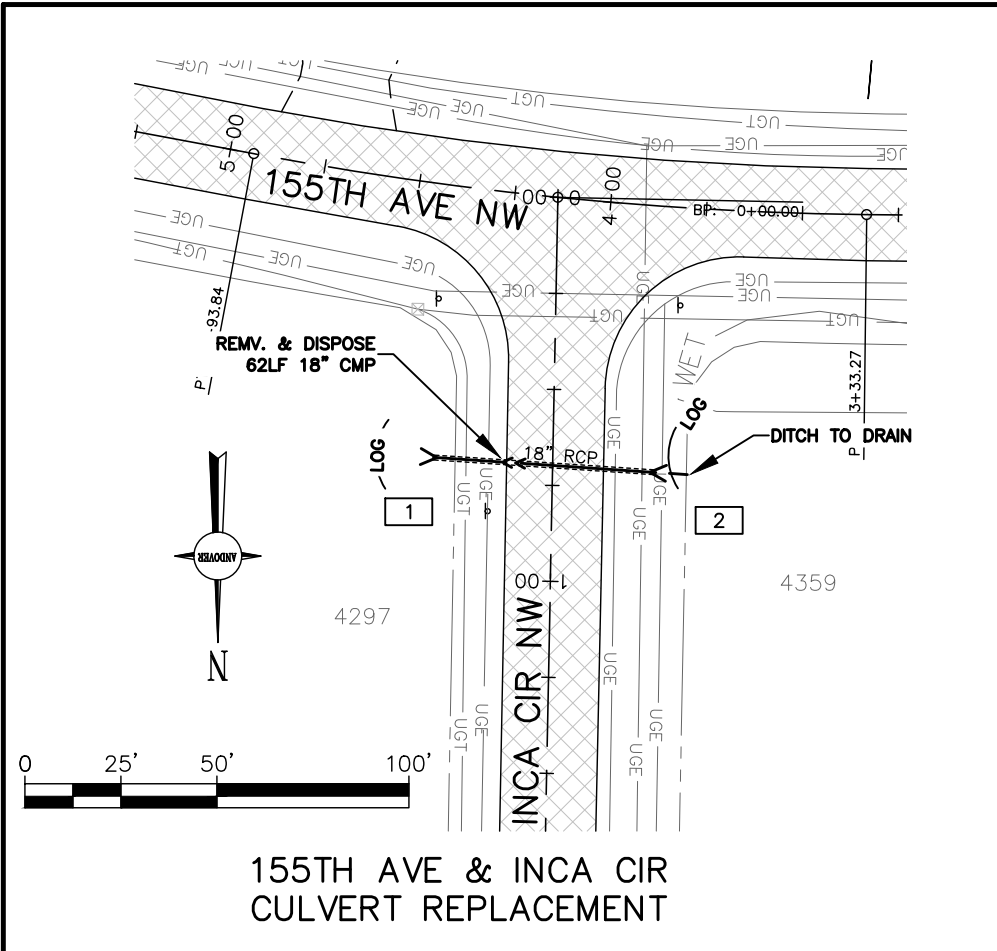
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David D. Bergowitz

DAVID D. BERGOWITZ
REG. NO. 26757
DATE MARCH 4TH, 2025

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



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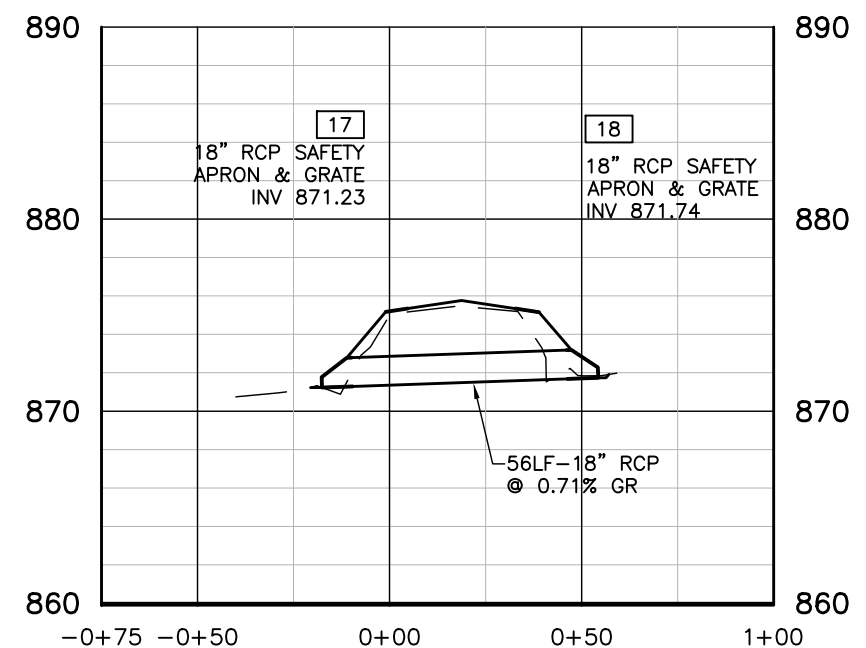
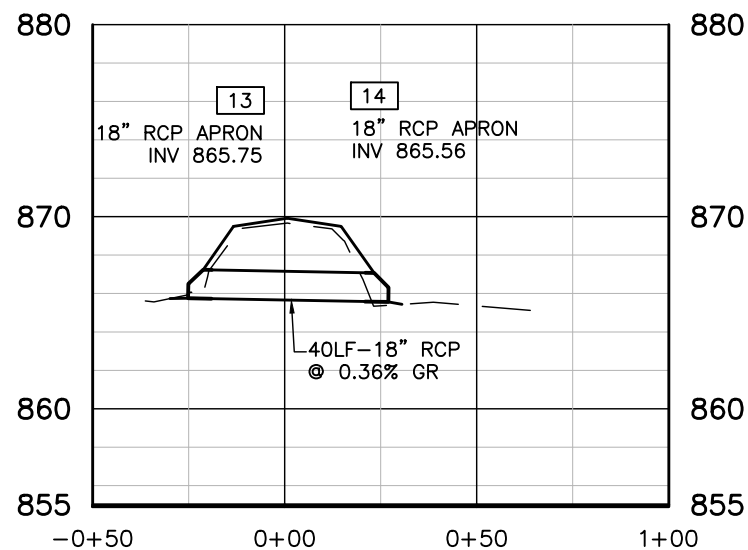
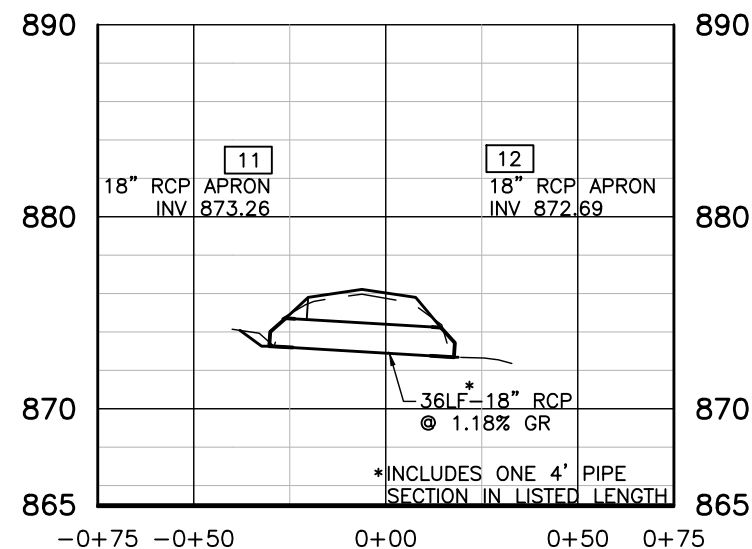
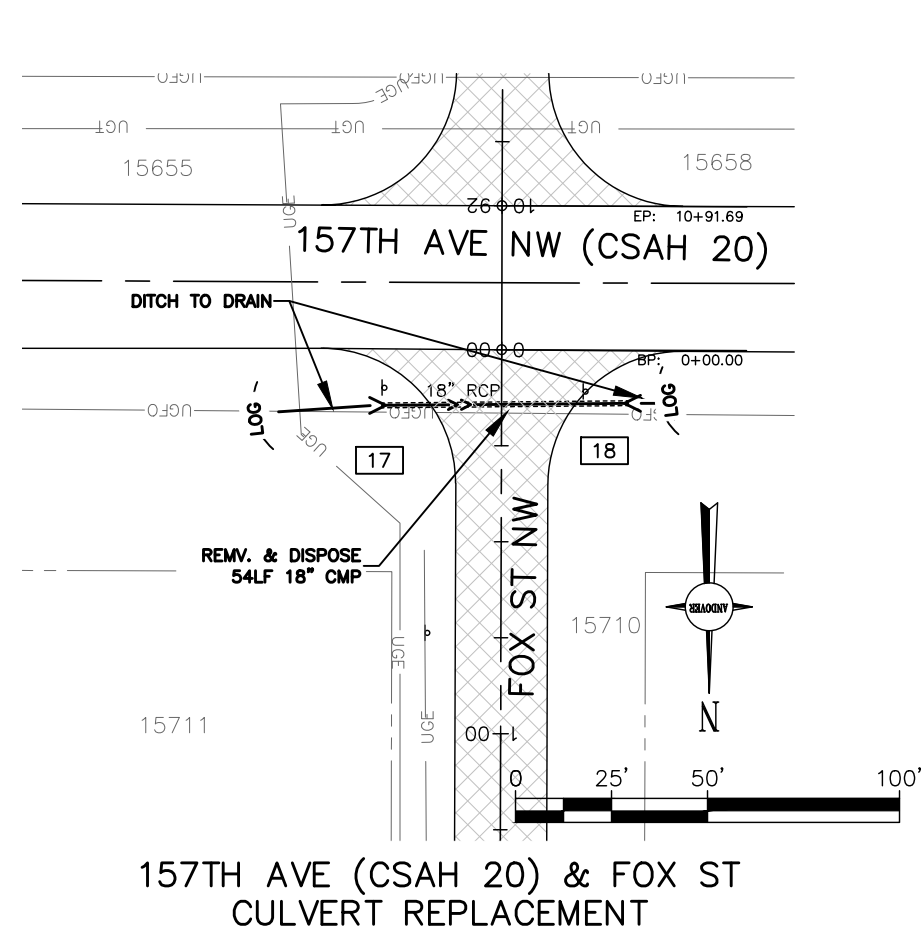
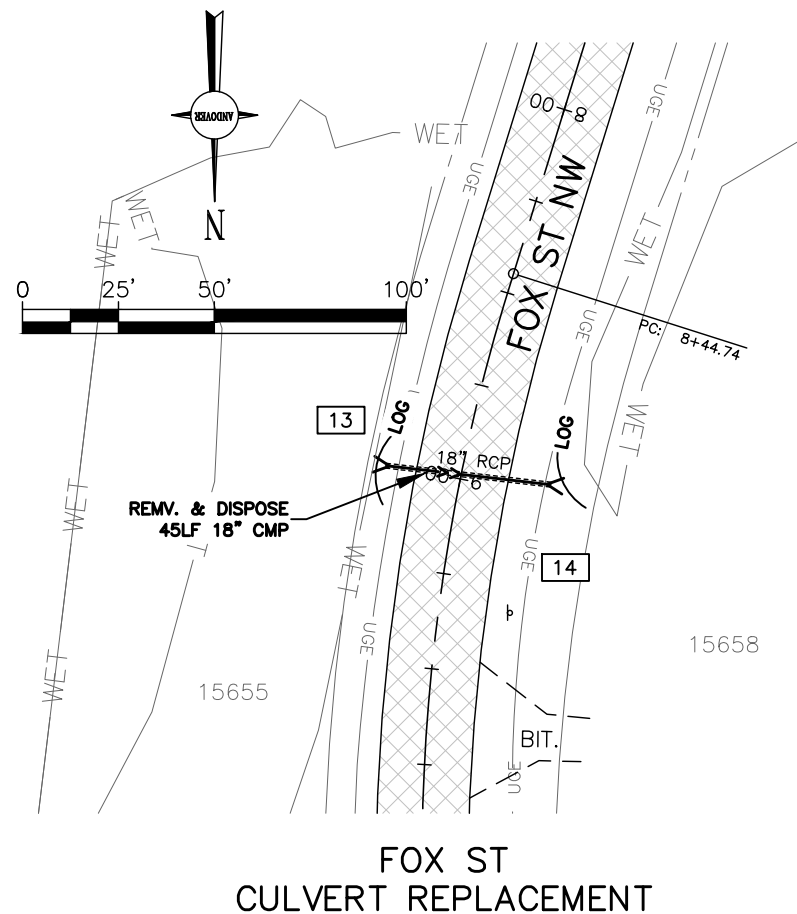
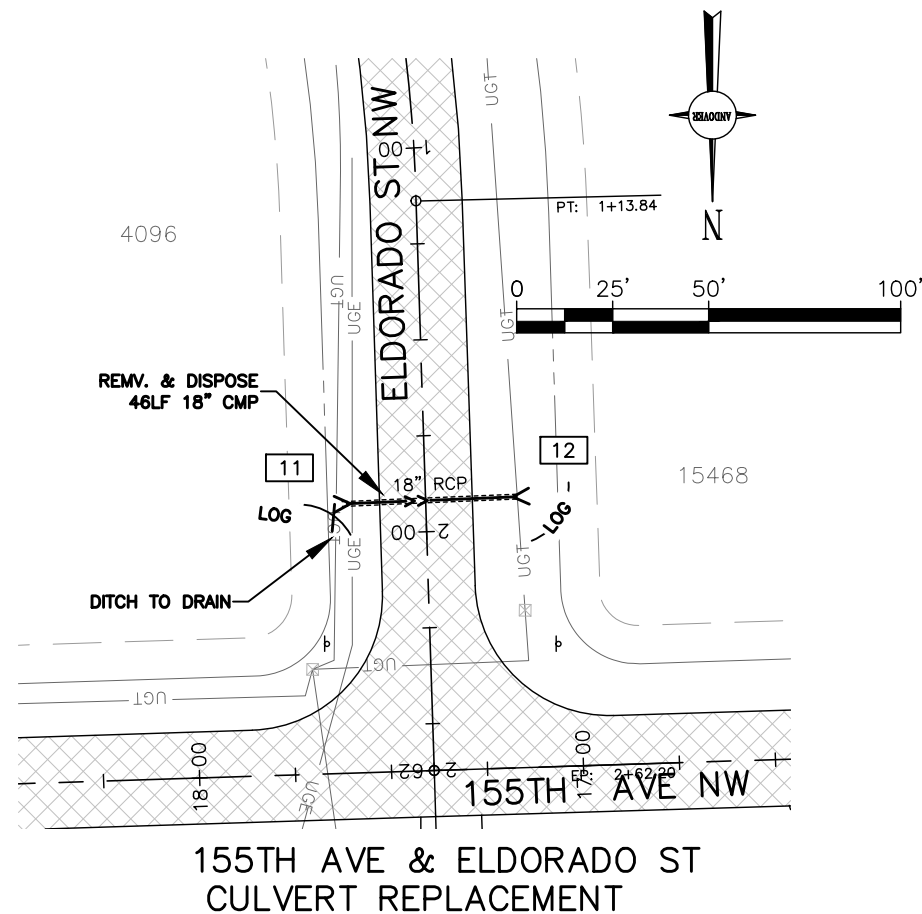
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David D. Berkey
DAVID D. BERKEY
REG. NO. 26757
DATE: MARCH 4TH, 2025

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



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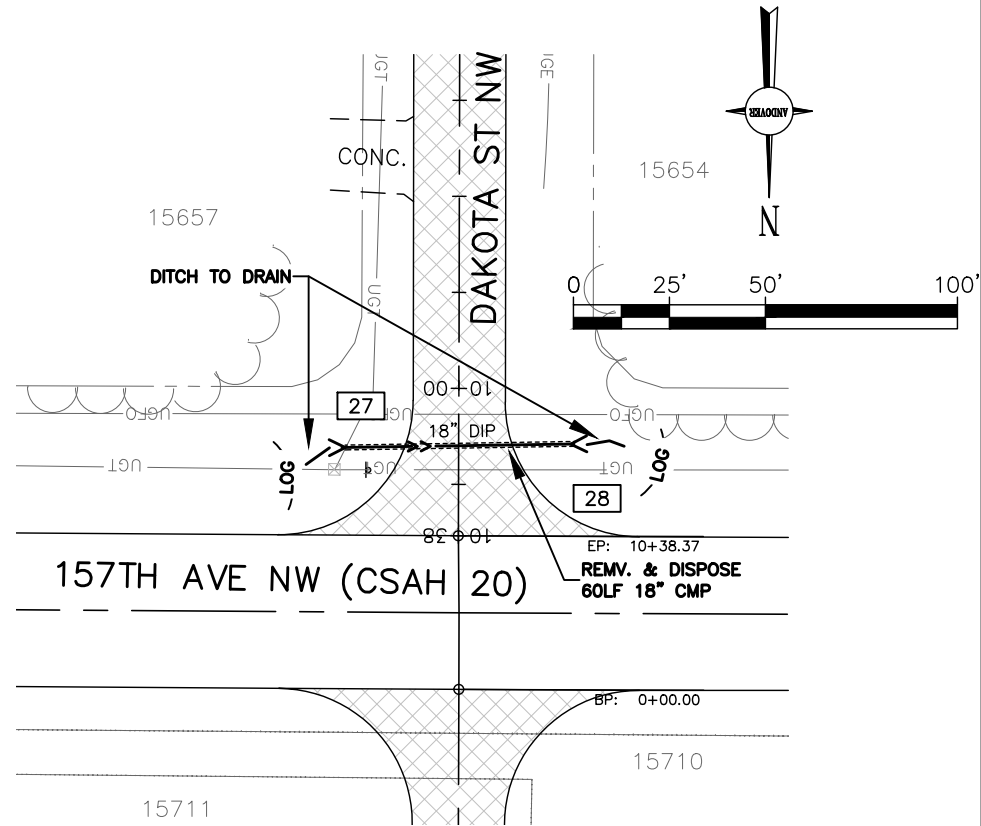
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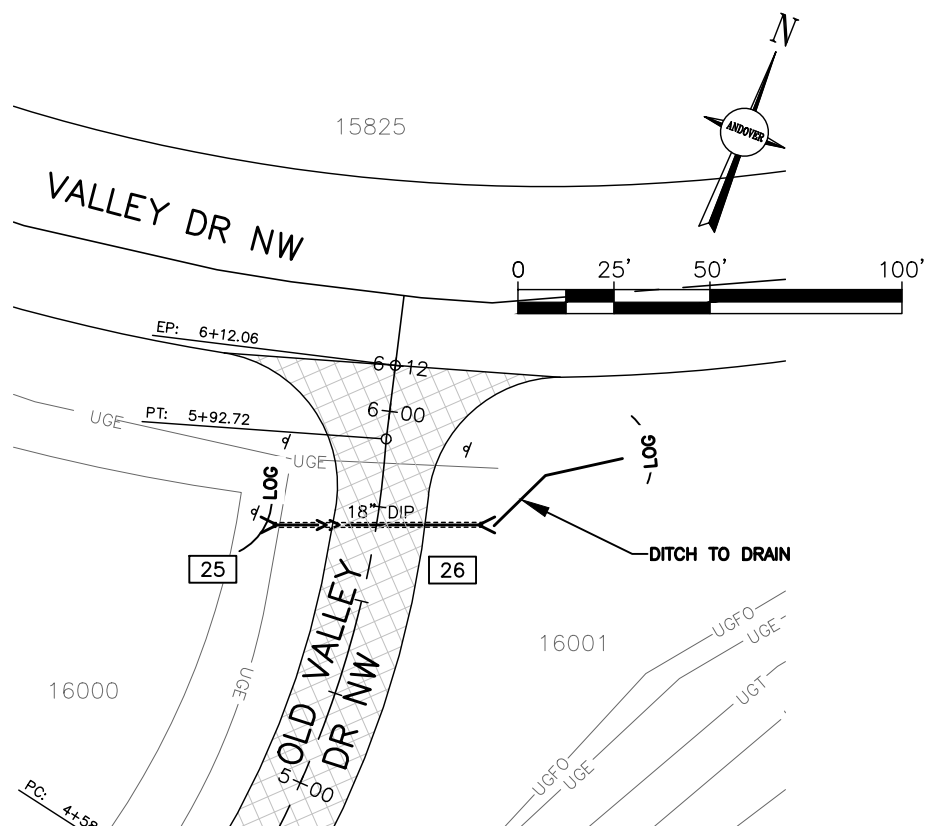
David D. Bergowitz
DAVID D. BERGOWITZ
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DATE MARCH 4TH, 2025



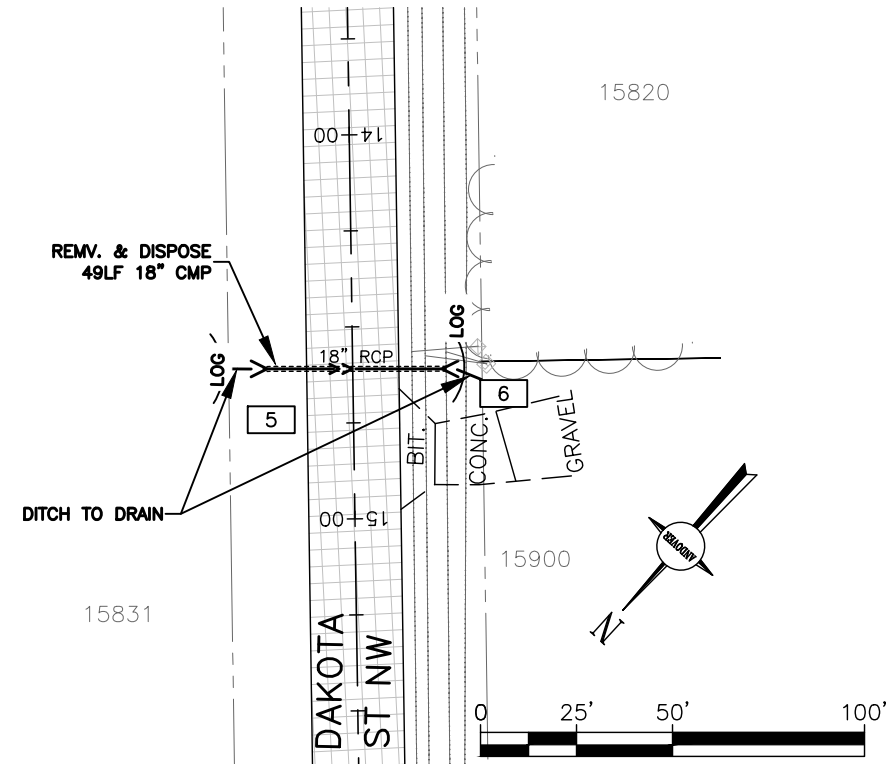
2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



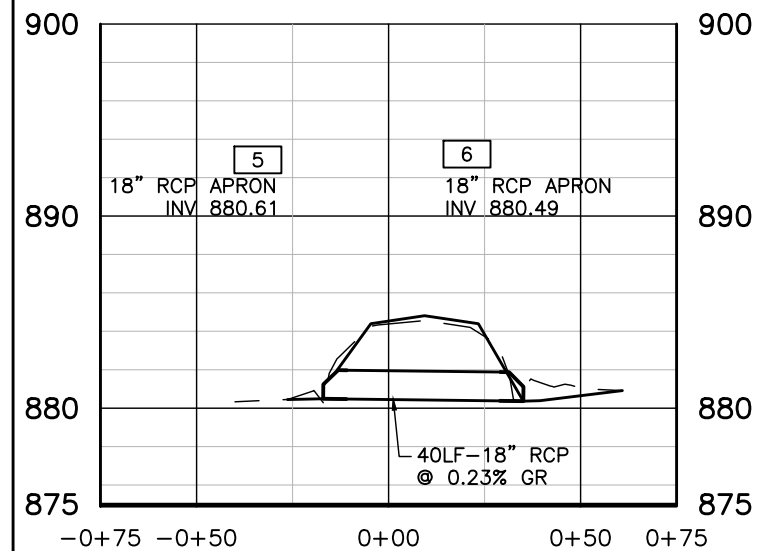
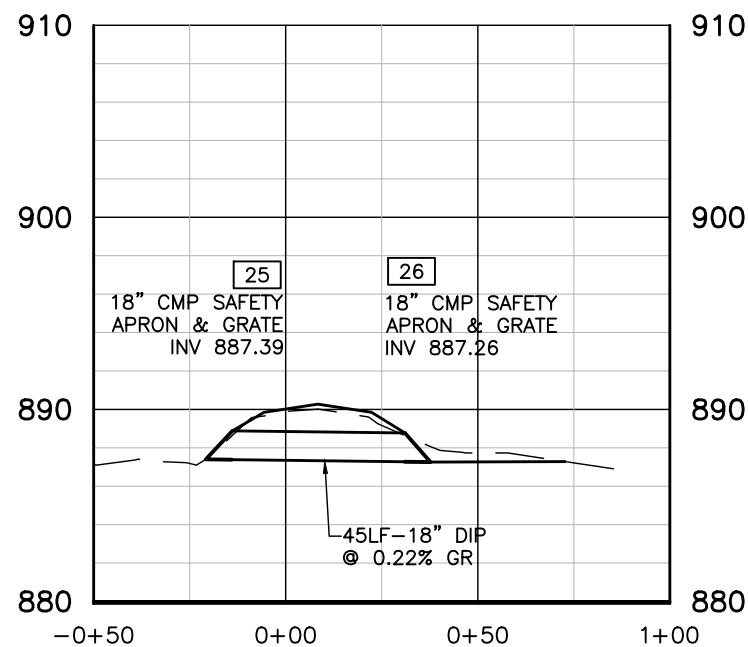
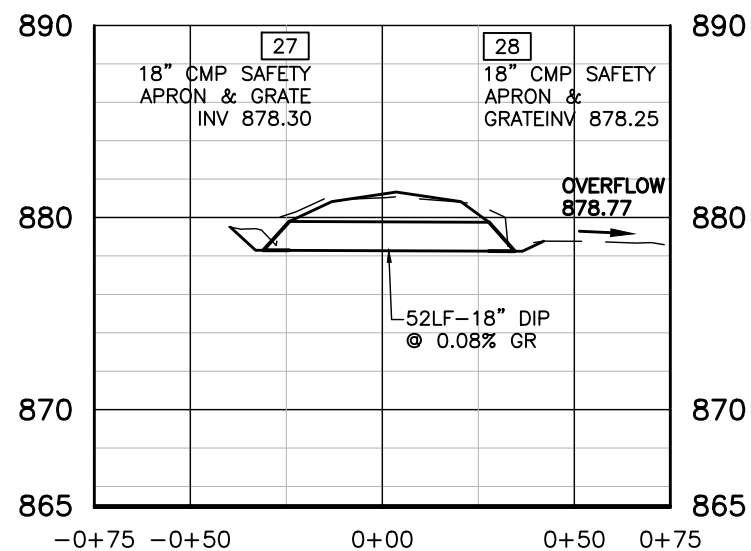
157TH AVE NW (CSAH 20) & DAKOTA ST
CULVERT REPLACEMENT



OLD VALLEY DR & VALLEY DR
CULVERT INSTALLMENT



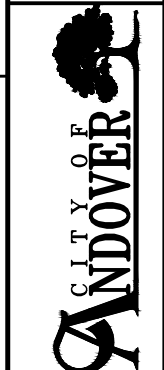
DAKOTA ST
CULVERT REPLACEMENT



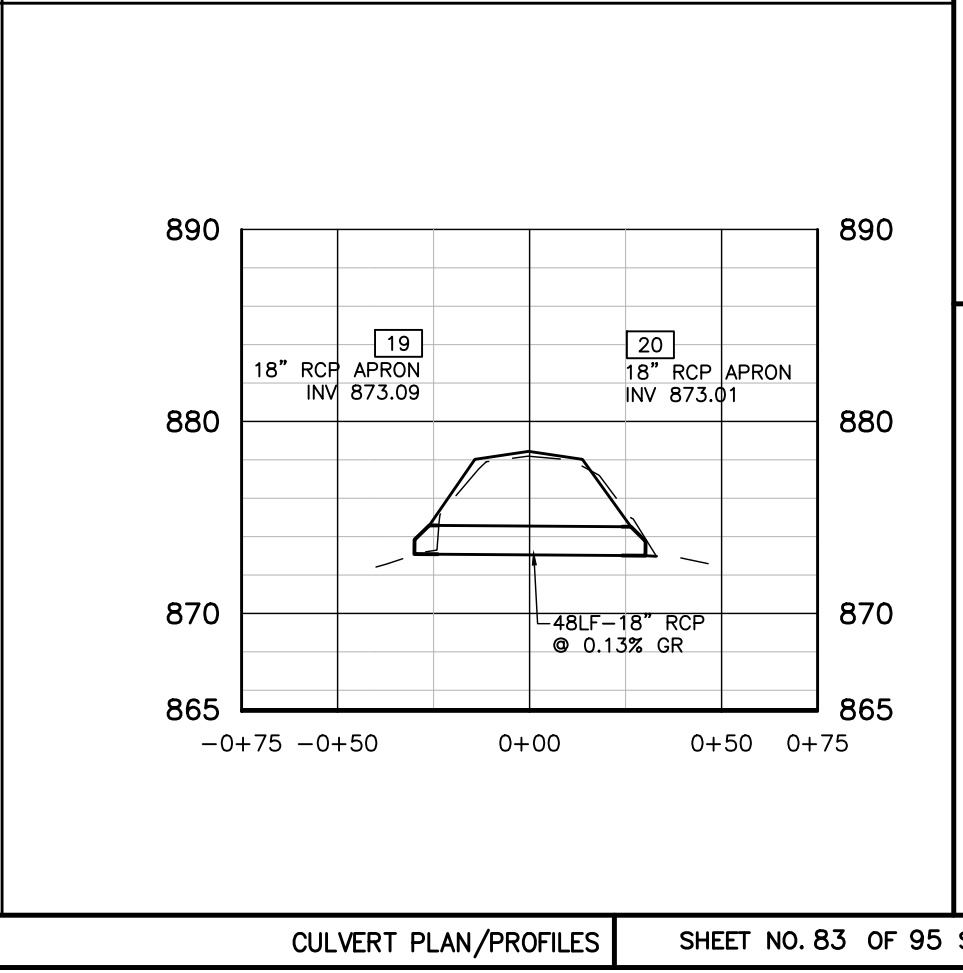
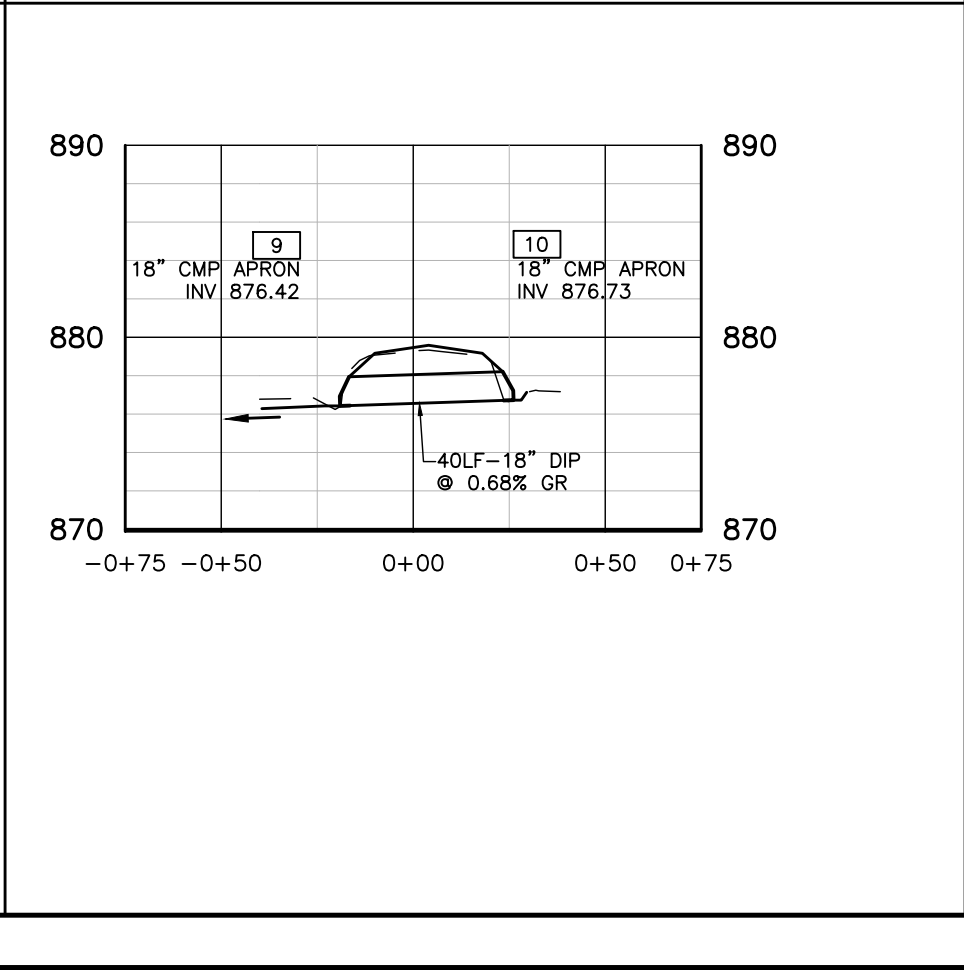
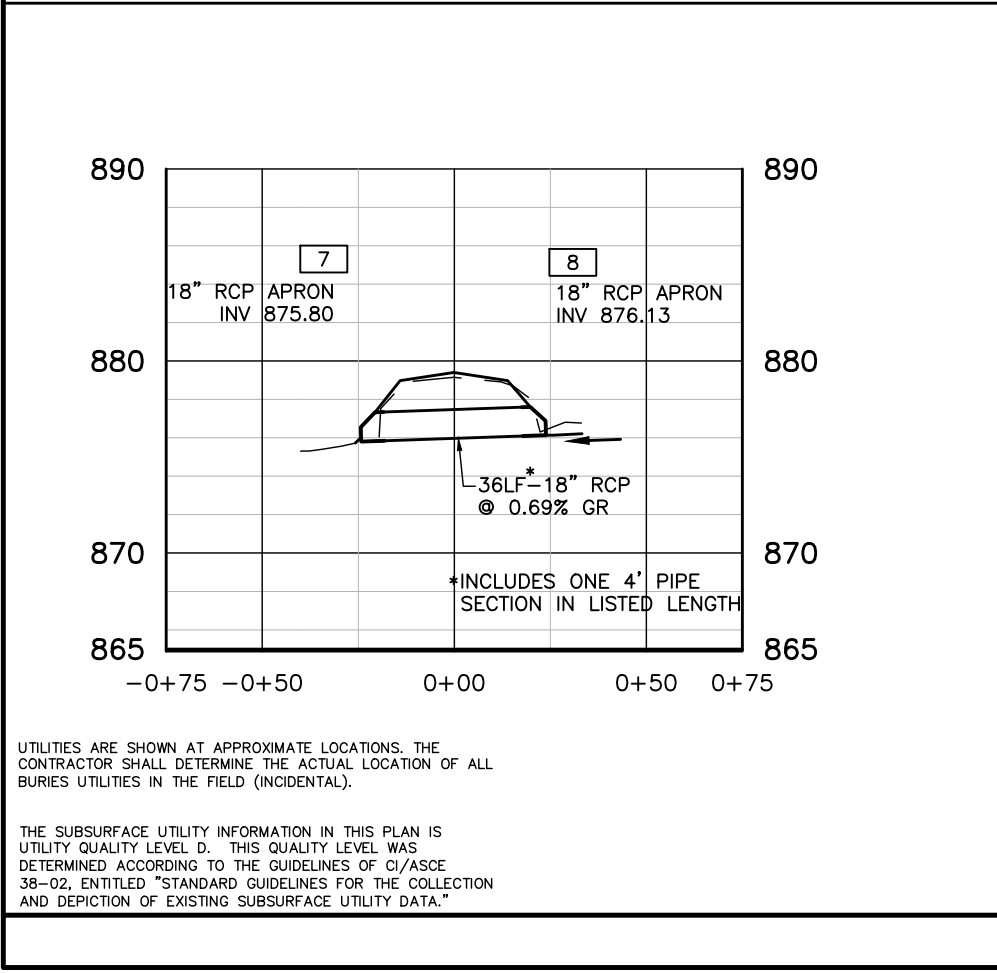
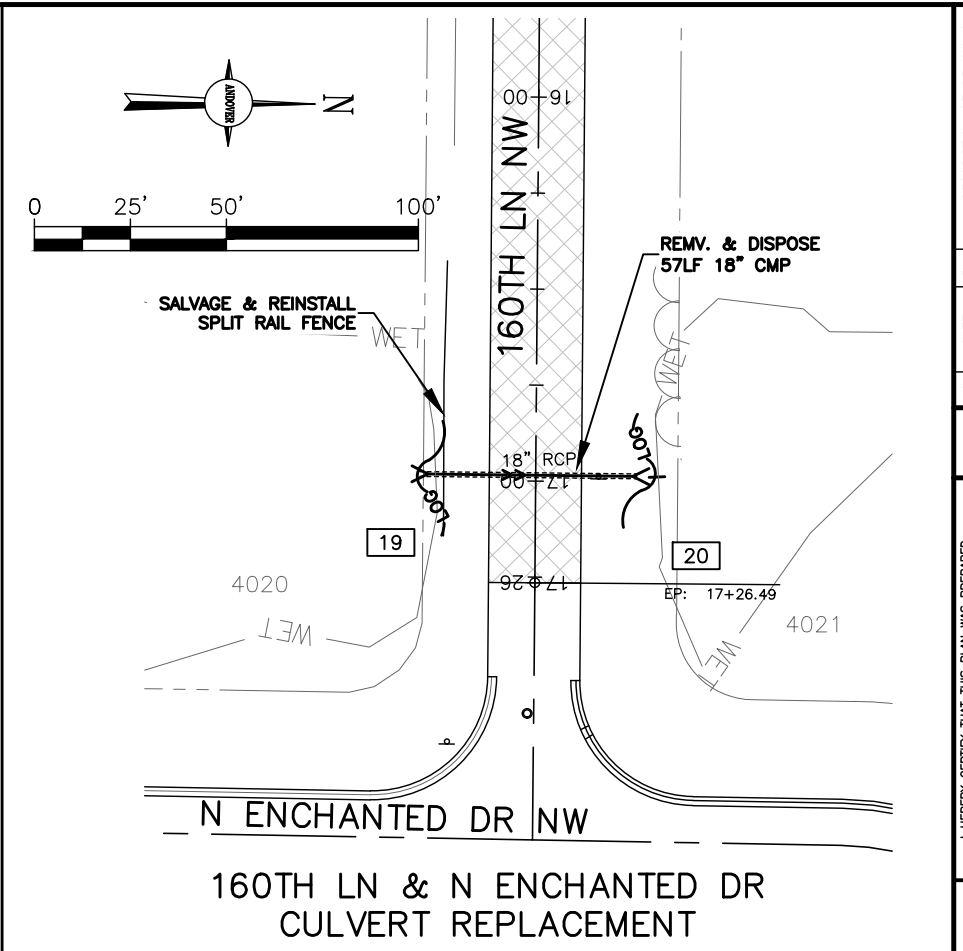
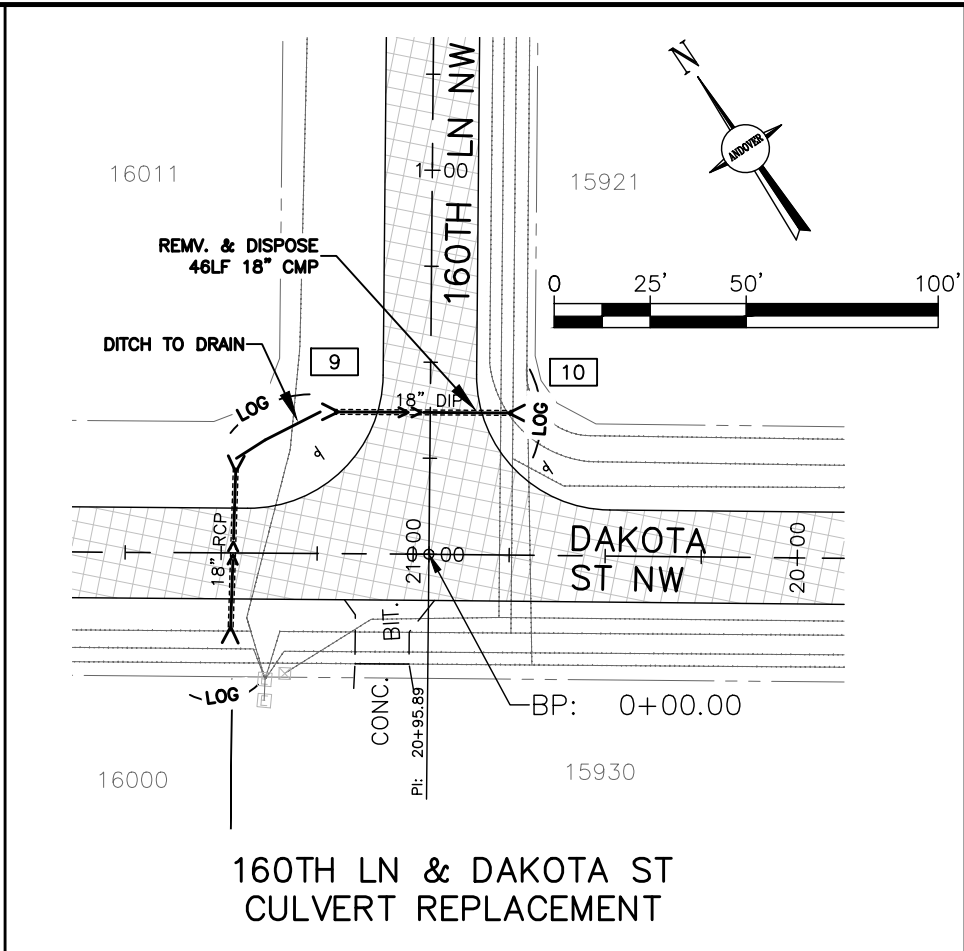
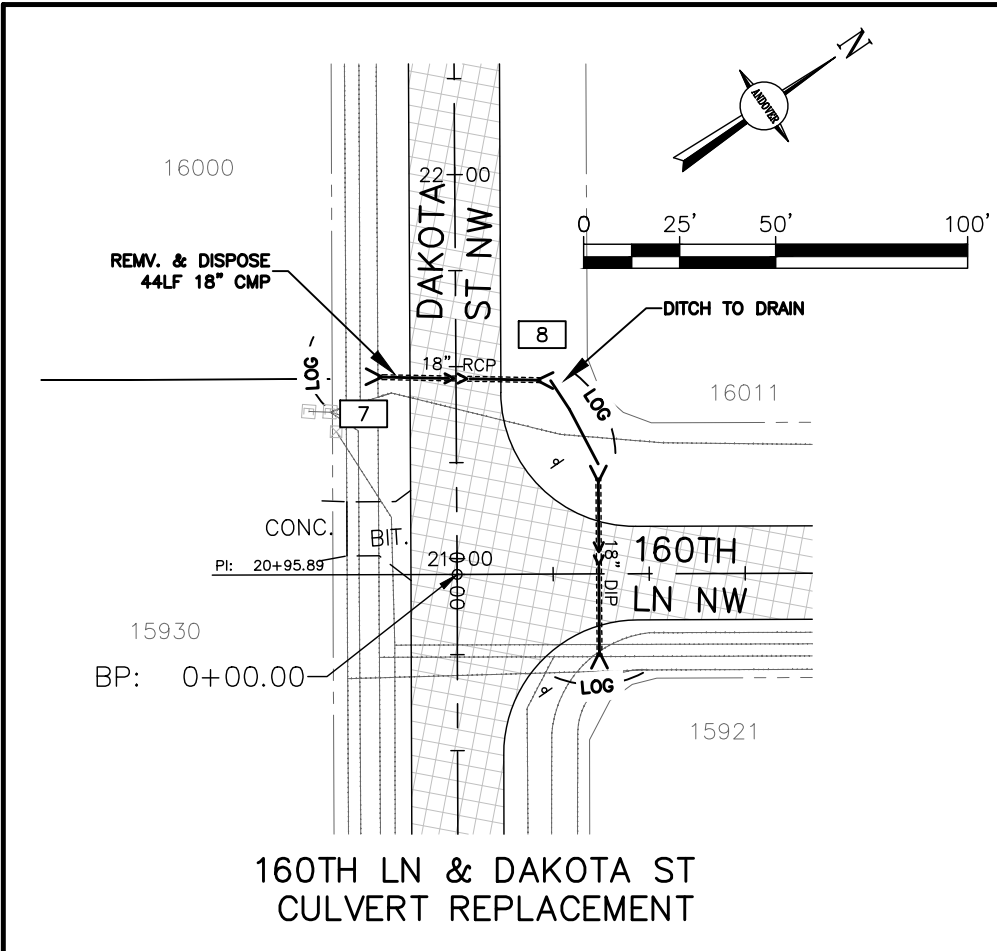
UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL BURIED UTILITIES IN THE FIELD (INCIDENTAL).

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

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2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



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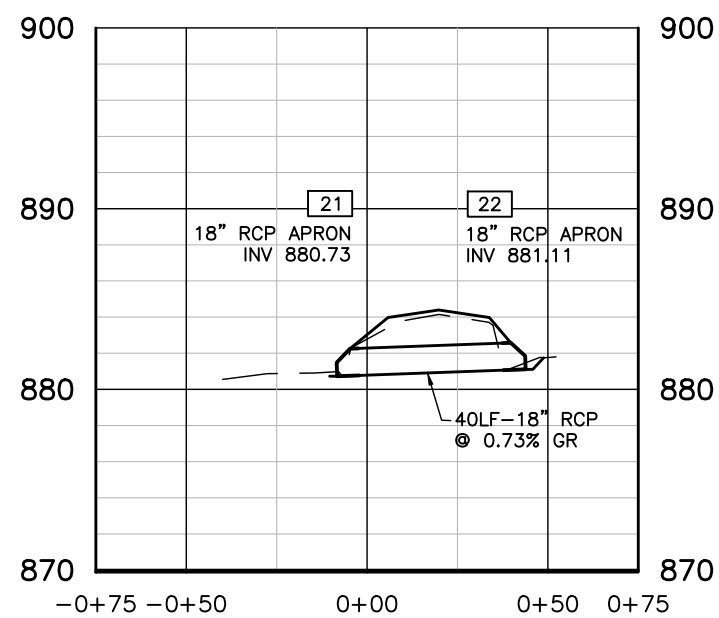
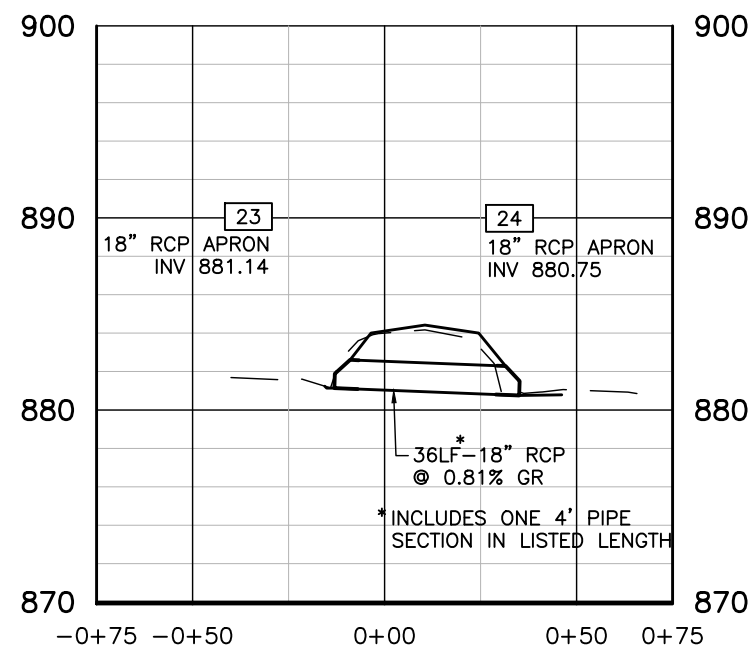
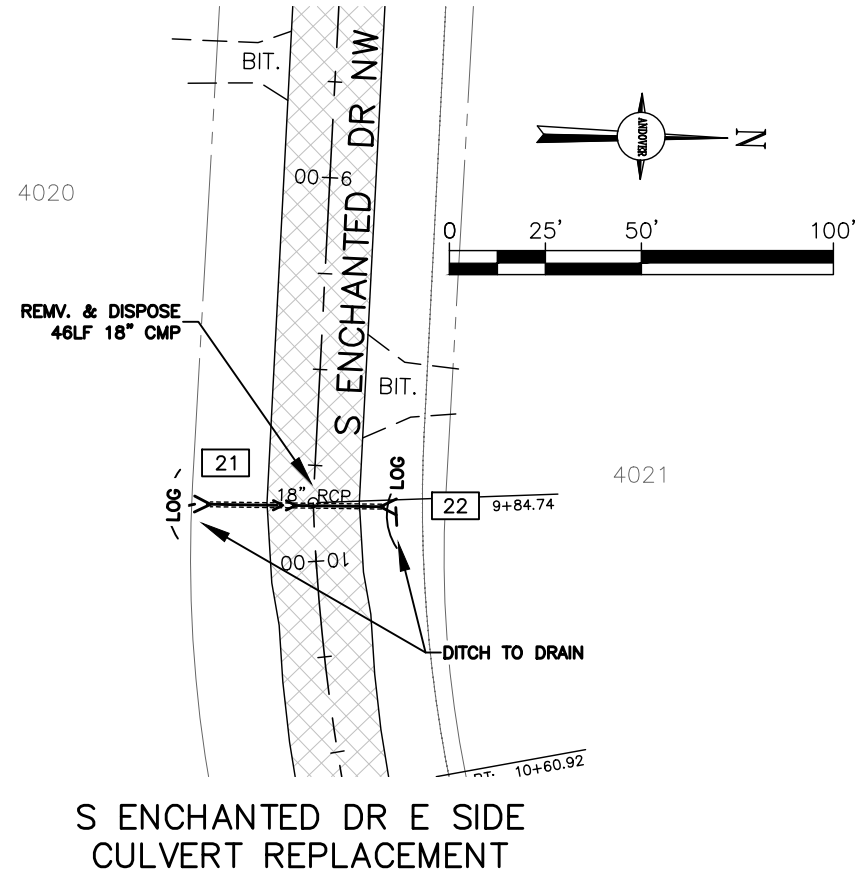
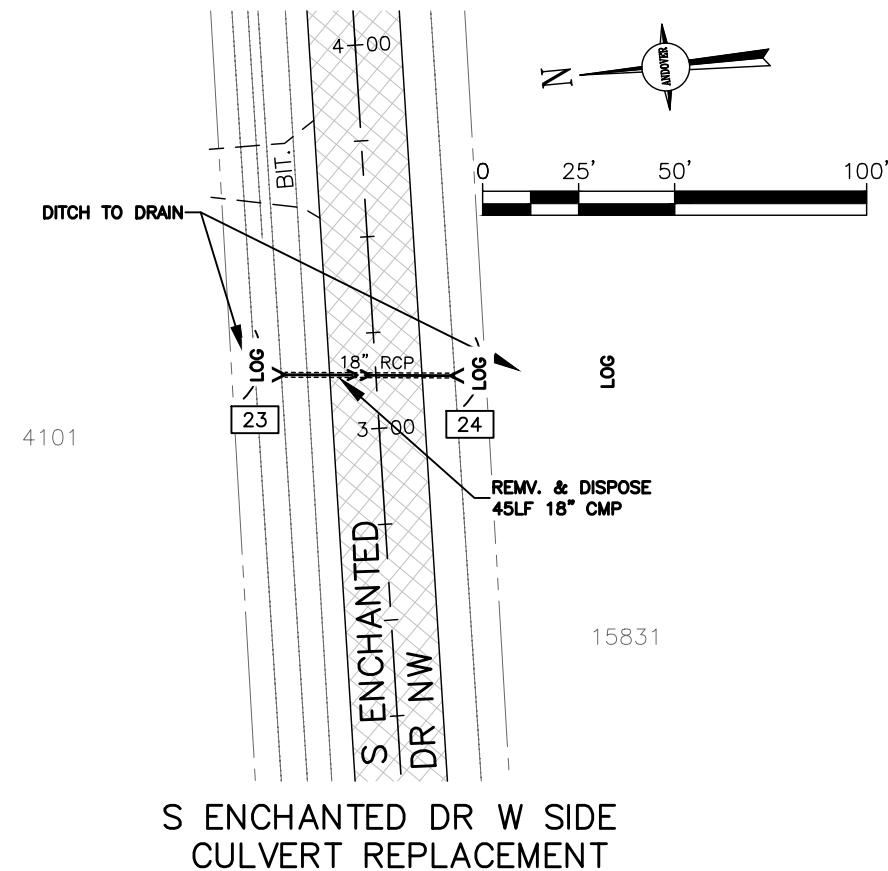
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IN ACCORDANCE WITH THE ENGINEERING STANDARDS AND UNDER THE LAWS OF THE STATE OF MINNESOTA.

David D. Berkwitz
DAVID D. BERKWITZ
REG. NO. 26757
DATE: MARCH 4TH, 2025

CITY OF ANDOVER

2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS



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2025 FULL DEPTH RECLAMATION (C.P. 25-11B)
FOX MEADOWS & INDIAN MEADOWS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DAVID D. BERGOWITZ
DATE: MARCH 4TH, 2025
REG. NO. 26757

NO.	DATE	BY	DESCRIPTION OF REVISIONS