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8/1/2024

**PROPOSED
R/W**

8/1/2024

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT NO. J3-5217(004)
BRIDGE & APPROACHES
STATE HIGHWAY 66

LINCOLN COUNTY

CONTROL SECTION NO. 66-41-08
STATE JOB NO. 35217(04)
BRIDGE "A" LOCATION NO. 4108 0095X
EXISTING NBIS NO. 01751; NEW NBI NO. XXXXX

FOR SURVEY CONTROL DATA,
SEE SURVEY DATA SHEETS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
0001	TITLE SHEET
0002	TYPICAL SECTIONS
B001-B002	GENERAL PLAN AND ELEVATION
B003	TYPICAL SECTION
R001	PLAN AND PROFILE - SH-66
RW01	RIGHT-OF-WAY PLAN
S001 - S009	SURVEY DATA SHEETS
X001 - X012	CROSS SECTIONS

DESIGN DATA

AADT 2029	= 8,100
AADT 2049	= 8,500
DHV (2-WAY)	= 850
K (DHV/AADT)	= 10%
D	= 55%
T (% AADT)	= 11%
T3	= 7%
V	= 35 MPH
20 YR FLEXESALS	= 5.55 M

SCALES

PLAN 1" = 100'
PROFILE HOR. 1" = 100'
VER. 1" = 10'
LAYOUT MAP 1" = 2,640'

CONVENTIONAL SYMBOLS

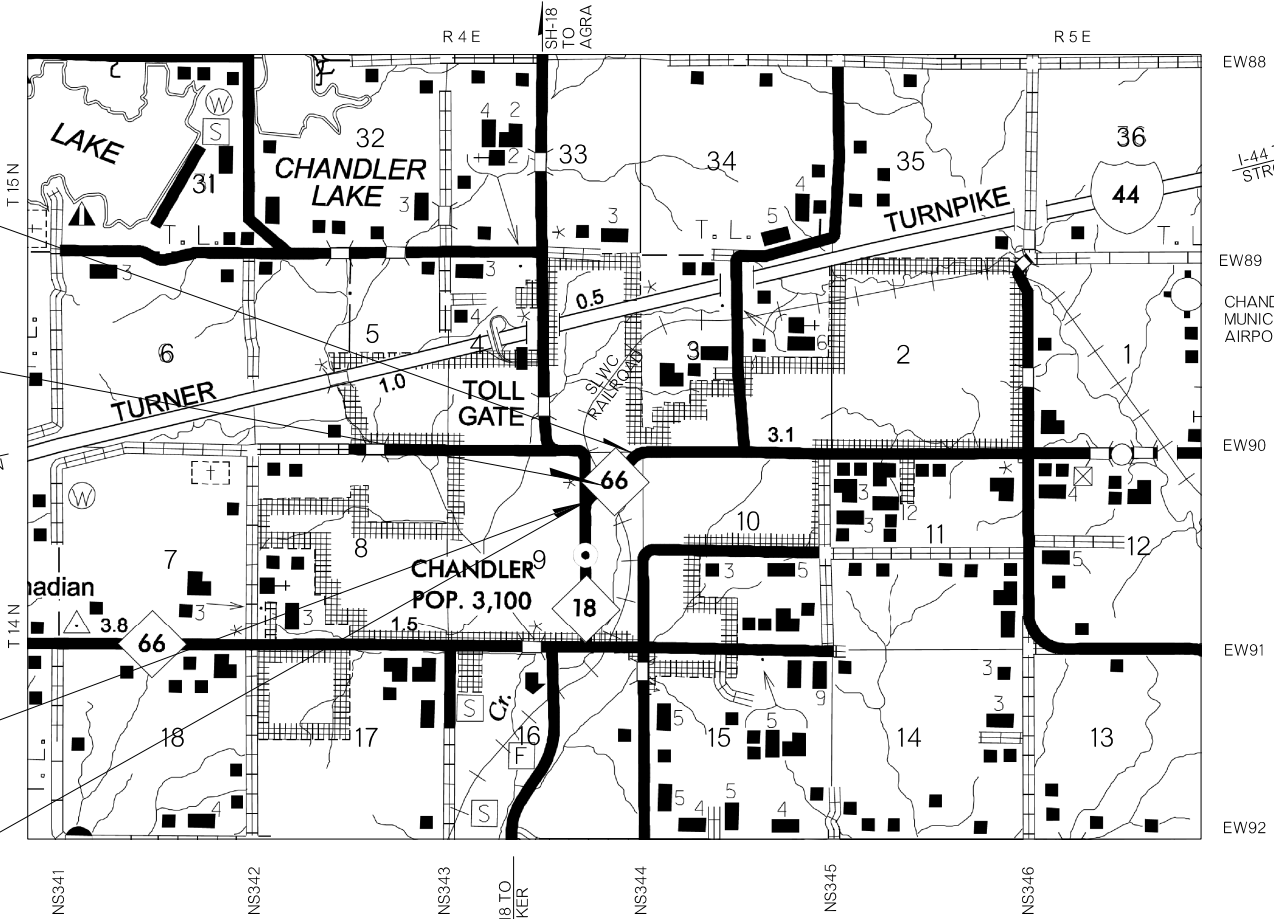
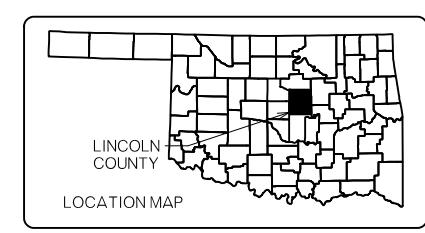
- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP
- SECTION LINES
- QUARTER SECTION LINES
- EXISTING FENCE
- PROPOSED FENCE
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- OIL WELL
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- RIGHT-OF-WAY LINES - EXISTING
- RIGHT-OF-WAY LINES - NEW
- CONTROLLED ACCESS
- RIGHT-OF-WAY FENCE

STA. 47+42.32
END PROJECT

BEGIN STA. 43+41.85
LENGTH = 140'-6"
BRIDGE "A"
END STA. 44+82.35

STA. 42+00.00
BEGIN PROJECT

CONTROL SUB-
SECTION NO. 0.96



NOTE: PROJECT LENGTH BASED ON CL SURVEY

ROADWAY LENGTH	401.82	FT.	0.076	MI.
BRIDGE LENGTH	140.50	FT.	0.026	MI.
PROJECT LENGTH			0.102	MI.

EQUATIONS : NONE
EXCEPTIONS : NONE

2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, DECEMBER 18, 2019.

stv
OKLA. REG. NO. 4006

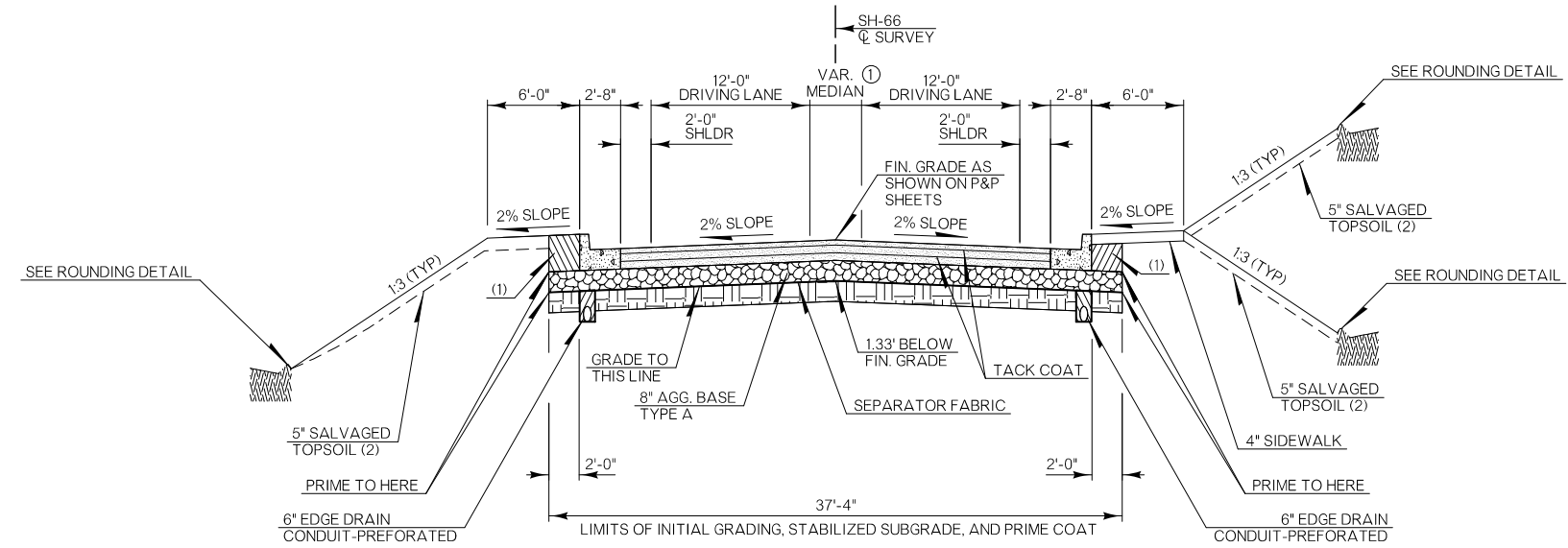
PREPARED BY:
CP&Y, INC dba STV Infrastructure
2000 N. CLASSEN BLVD., SUITE 1410
OKLAHOMA CITY, OK 73106
405-848-2346

DAVID M. NEUHAUSER, P.E.
OKLA. REG. NO. 19980

DATE _____

**OKLAHOMA
Transportation**

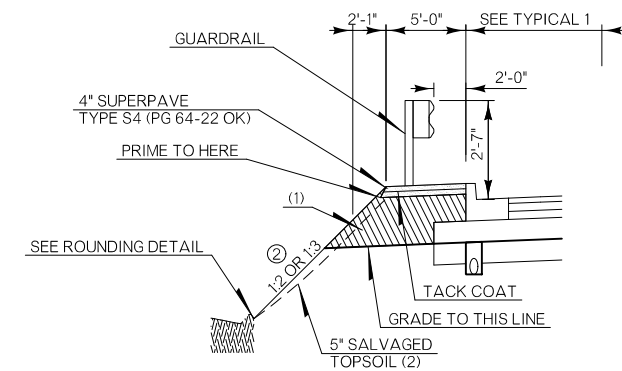
OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED _____	DATE APPROVED _____
BY _____ CHIEF ENGINEER	BY _____ DIVISION ADMINISTRATOR
SWO 5598(1)	PROJECT NO. J3-5217(004)
COUNTY LINCOLN	HIGHWAY SH-66
	SHEET NO. 0001



TYPICAL NO. 1
 STA. 42+00.00 TO STA. 43+21.85
 STA. 45+02.35 TO STA. 47+42.32

PAVEMENT REQUIREMENT		
	12'-0" DRIVING LANE	2'-0" PAVED SHOULDER
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 64-22 OK)	2" SUPERPAVE TYPE S4 (PG 64-22 OK)
BASE COURSE	3" SUPERPAVE TYPE S3 (PG 64-22 OK)	3" SUPERPAVE TYPE S3 (PG 64-22 OK)
SUB-BASE	8" AGGREGATE BASE TYPE A	8" AGGREGATE BASE TYPE A
SUBGRADE	8" STABILIZED SUBGRADE	8" STABILIZED SUBGRADE

① VARIABLE STRIPING MEDIAN:
 STA. 42+00.00 TO STA. 42+25.00, 2'-3" TO 0'-0"
 STA. 45+40.72 TO STA. 46+00.00, 0'-0" TO 4'-0"
 STA. 46+00.00 TO STA. 46+72.95, 4'-0"
 STA. 46+72.95 TO STA. 47+42.32, 4'-0" TO 6'-10"



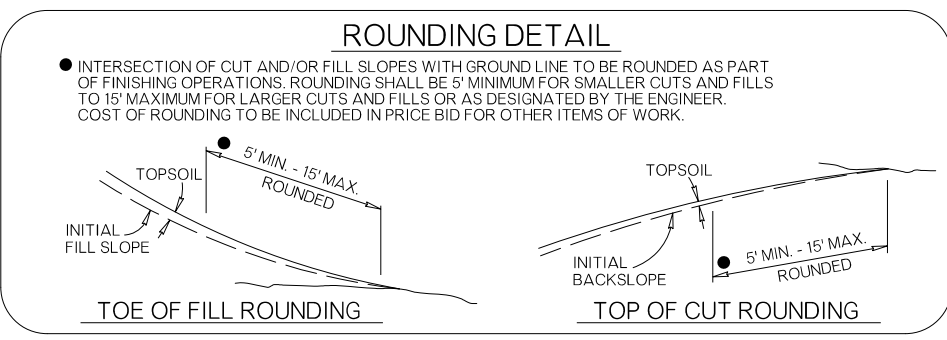
GUARDRAIL WIDENING DETAIL
 STA. 42+00.00 TO STA. 43+21.85
 STA. 45+02.35 TO STA. 46+50.00

② SIDE SLOPE:
 STA. 42+00.00 TO STA. 43+21.85, 1:2 SLOPE
 STA. 45+02.35 TO STA. 46+50.00, 1:3 SLOPE

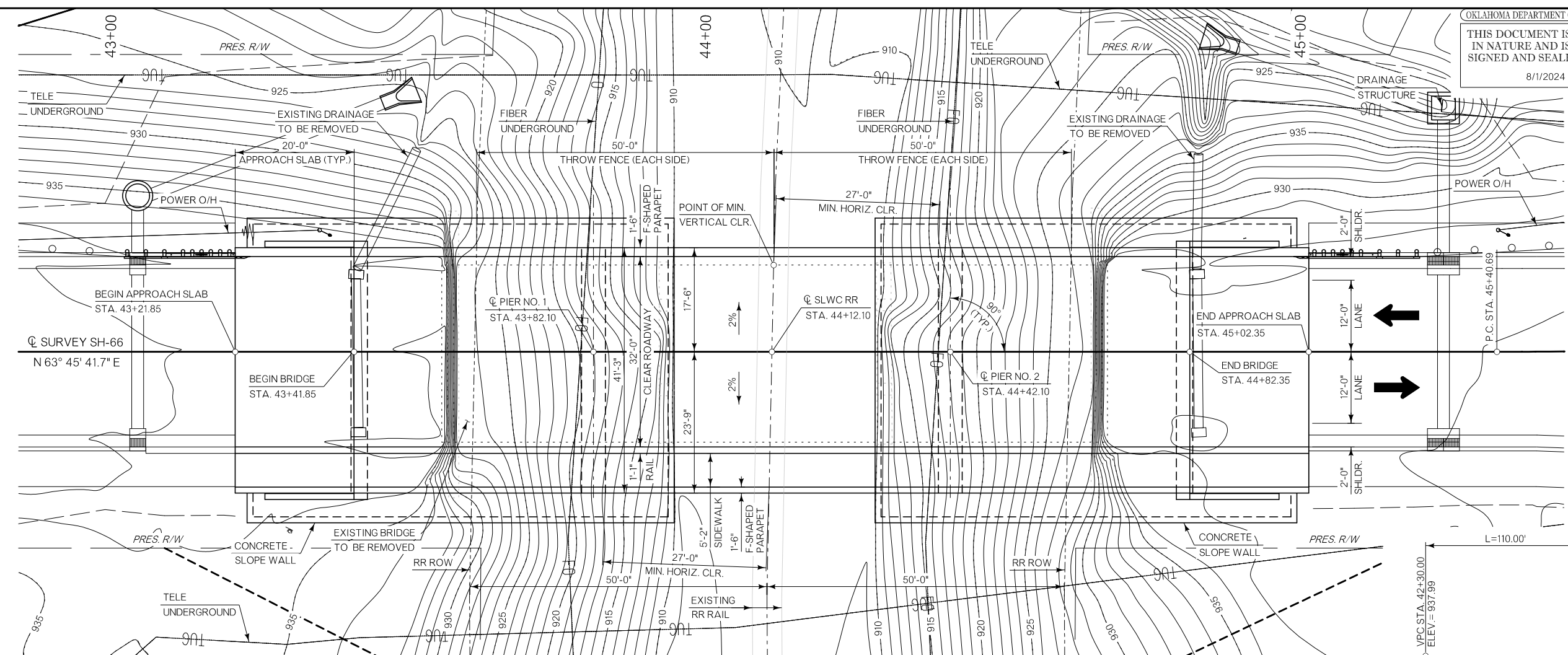
(1) BACKFILL NOTE:
 TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

(2) TOPSOIL NOTE:
 THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATIONS SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE MASS LINE BALANCE.

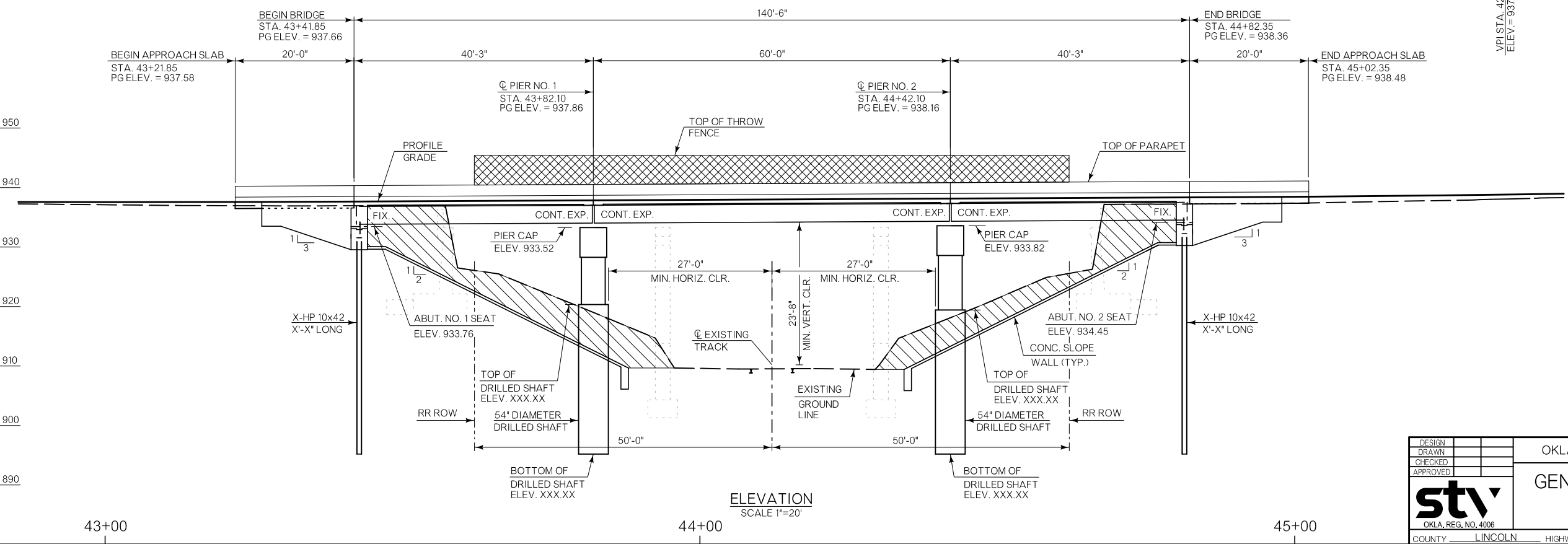
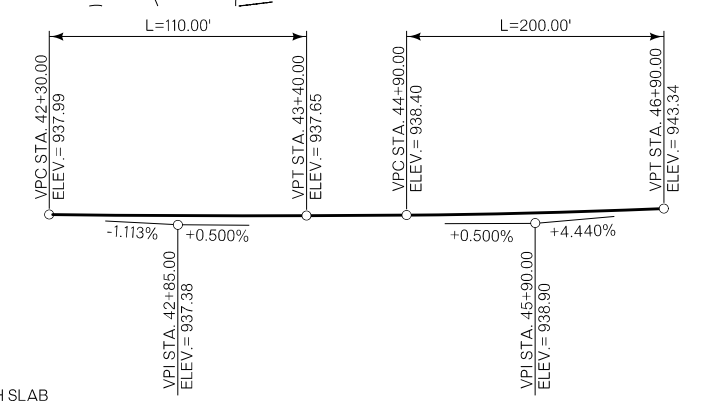


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BM #3
 "L" ON CONCRETE CURB, 14.7' RT.
 STA. 42+93.7 ELEV. 937.46

BM #2
 "L" ON CONCRETE CURB, 16.0' LT.
 STA. 46+05.7 ELEV. 939.57



EXCAVATION

DESIGN
 DRAWN
 CHECKED
 APPROVED

stv
 OKLA. REG. NO. 4006

OKLAHOMA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 40'-60'-40" STEEL I-BEAMS
 32.00' CLR. RDY. WITH F-SHAPED PARAPET
 @ STA. 44+12.10

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DESIGN DATA

CLASS AA CONCRETE f'c = 4 ksi
CLASS A CONCRETE f'c = 3 ksi
REINFORCING STEEL (GRADE 60) fy = 60 ksi
STRUCTURAL STEEL M270 (GRADE 50W) fy = 50 ksi

INDEX OF SHEETS

SHEET NO. DESCRIPTION
B001-B002 GENERAL PLAN AND ELEVATION
B003 TYPICAL SECTION

LOADING:

HL93 LOADING
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE FORMS

DESIGN:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
8TH EDITION

ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE

LRFR INVENTORY RATING FACTOR: X.XXX
LRFR OPERATING RATING FACTOR: X.XXX

LOW BEAM ELEV. = XXX.XX

REQUIRED STANDARDS:

EJ-DTL-02E
EJ-SQ-04E

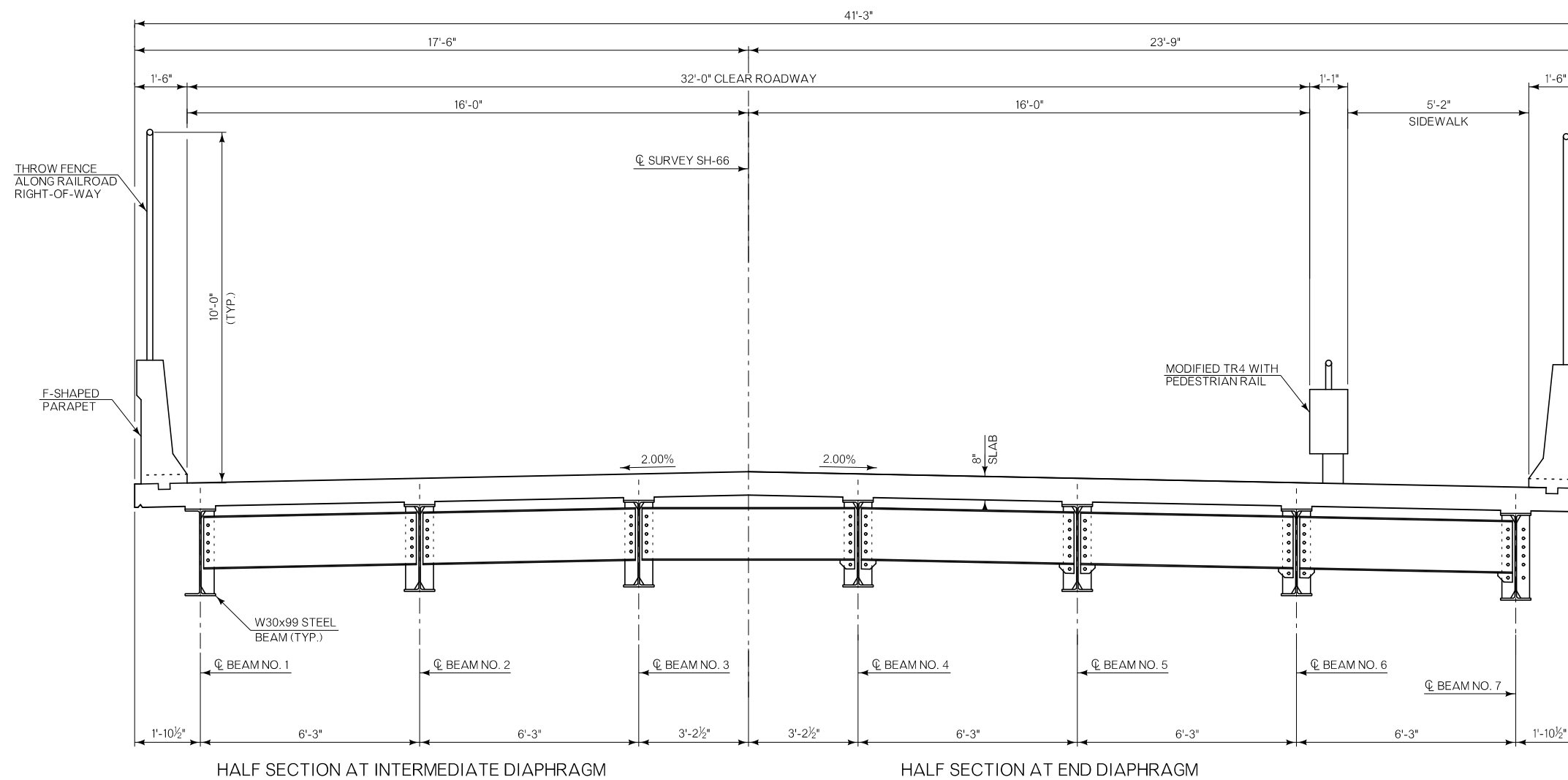
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\$FILEL\$ \$PENTBLSS
\$USERNAMES

DESIGN		
DRAWN		
CHECKED		
APPROVED		

OKLAHOMA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

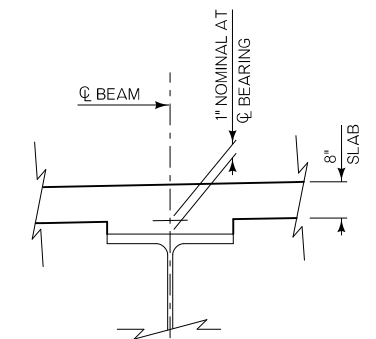
40'- 60'-40' STEEL I-BEAMS
32.00' CLR. RDY. WITH F-SHAPED PARAPET
@ STA. 44+12.10



HALF SECTION AT INTERMEDIATE DIAPHRAGM

HALF SECTION AT END DIAPHRAGM

TYPICAL SECTION



BEAM HAUNCH DETAIL

NOTE:
 PLAN QUANTITIES FOR CLASS AA CONCRETE INCLUDE BEAM HAUNCHES. THE HAUNCH HEIGHT SHOWN IS THE THEORETICAL HAUNCH HEIGHT AT THE CENTERLINE BEARING ONLY, MEASURED FROM THE BOTTOM OF THE DECK SLAB TO THE TOP OF THE BEAM, AND VARIES ACROSS THE SPAN. DETERMINE THE ACTUAL HAUNCH HEIGHT (ACCOUNTING FOR BEAM CAMBER, DEAD LOAD DEFLECTION AND ROADWAY GRADE) AFTER ERECTION OF THE BEAMS AND SUBMIT TO THE ENGINEER FOR APPROVAL. THE ENGINEER WILL NOT MEASURE DIFFERENCE BETWEEN THE THEORETICAL AND THE ACTUAL HAUNCH HEIGHTS FOR PAYMENT.

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DESIGN	
DRAWN	
CHECKED	
APPROVED	

OKLAHOMA DEPARTMENT OF TRANSPORTATION

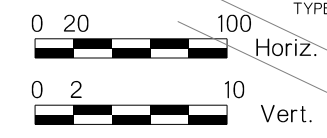
TYPICAL SECTION

SEC. 9
 T-14-N, R-4-E

SEC. 9
 T-14-N, R-4-E

LEGEND

- FULL DEPTH PAVEMENT
- SIDEWALK
- PROP FLOW LINE

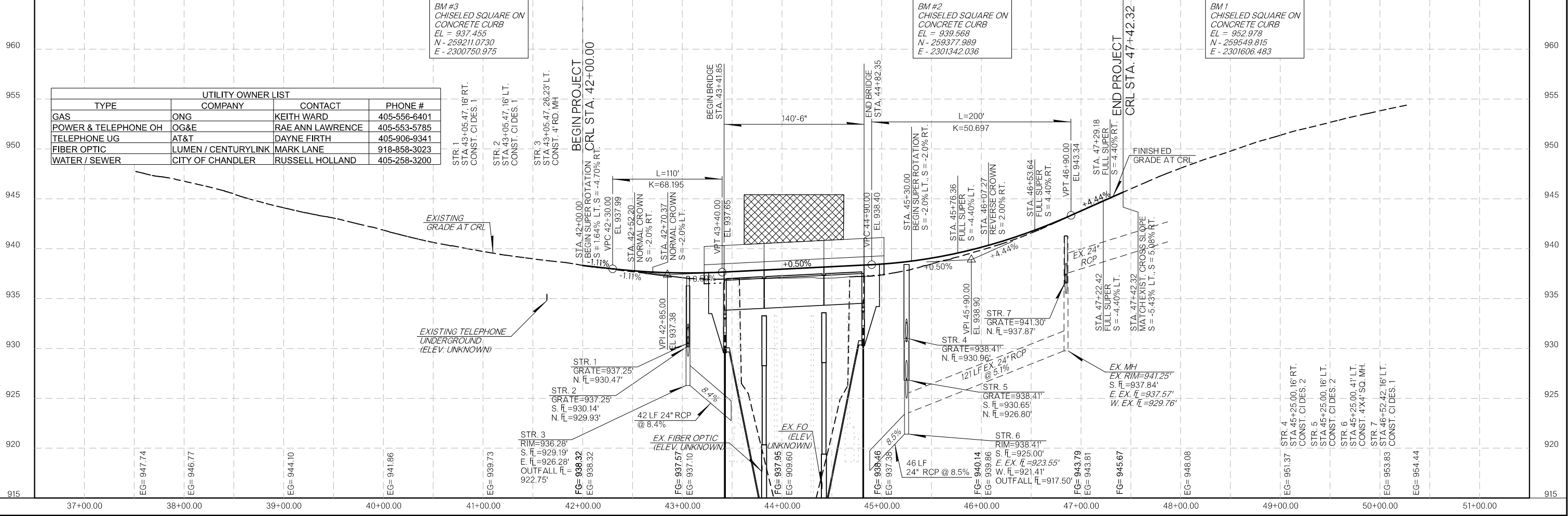


TYPE	UTILITY OWNER LIST	COMPANY	CONTACT	PHONE #
GAS	ONG	KEITH WARD	405-556-6401	
POWER & TELEPHONE OH	OG&E	RAE ANN LAWRENCE	405-553-5785	
TELEPHONE UG	AT&T	DAYNE FIRTH	405-906-9341	
FIBER OPTIC	LUMEN / CENTURYLINK	MARK LANE	918-858-3023	
WATER / SEWER	CITY OF CHANDLER	RUSSELL HOLLAND	405-258-3200	

BM #3
 CHISELED SQUARE ON
 CONCRETE CURB
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 N - 259211.0730
 E - 2300750.975

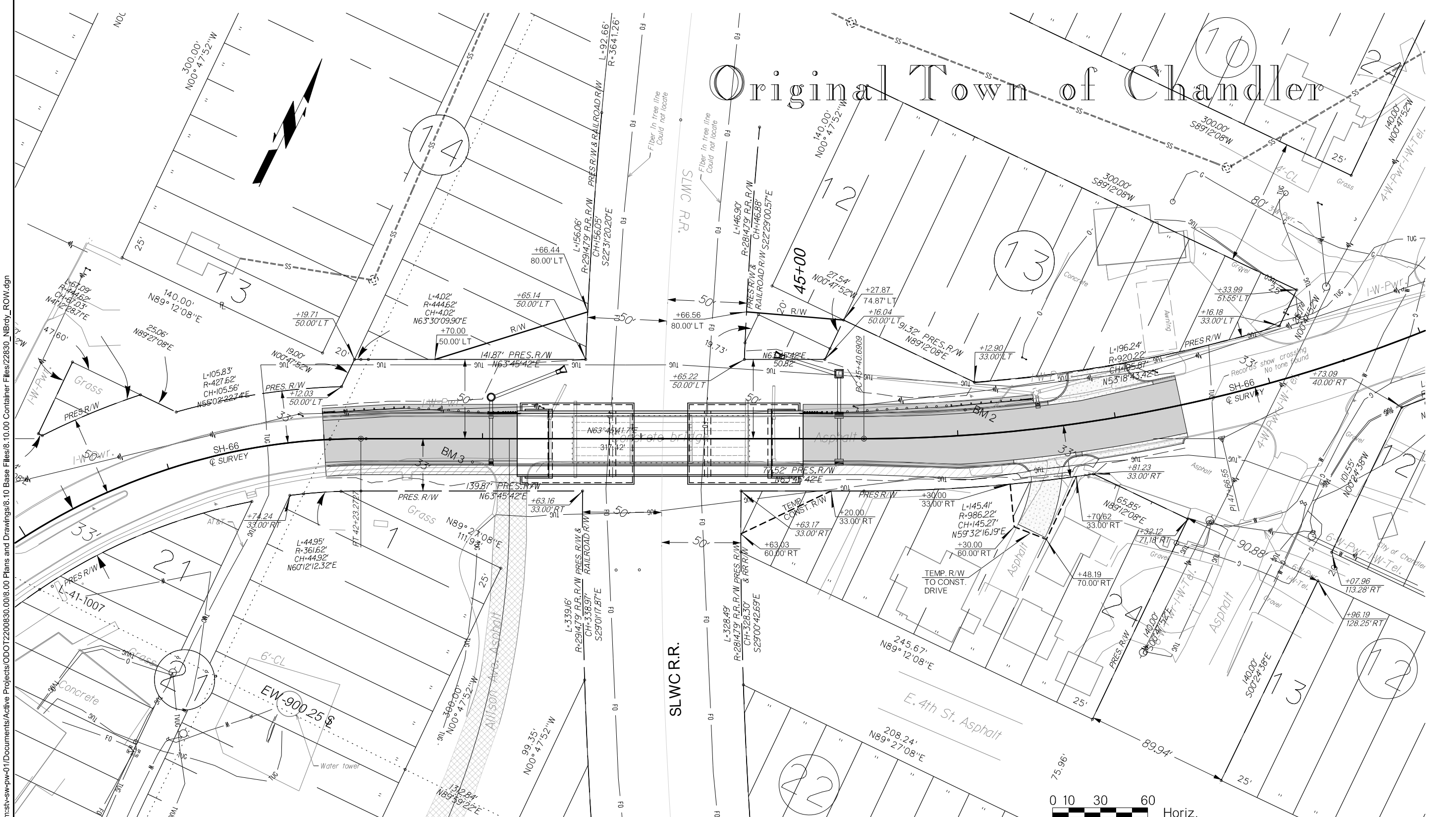
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 CHISELED SQUARE ON
 CONCRETE CURB
 EL = 939.568
 N - 259377.989
 E - 2301342.036

BM #1
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 CONCRETE CURB
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 N - 259549.815
 E - 2301606.483



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Original Town of Chandler



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DESIGN		OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN		
CHECKED		
APPROVED		

stv
 OKLA. REG. NO. 4006

RIGHT-OF-WAY PLAN

COUNTY LINCORN HIGHWAY SH-66 STATE JOB NO. 35217(04) SHEET NO. RW01

SURVEY CONTROL DATA

1. POSITIONAL CONTROL:

A. POSITIONAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD83 (1993), LAMBERT PROJECTION (NORTH ZONE).

B. ACCURACY - THE POSITIONAL CONTROLS FOR THIS SURVEY MEETS OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:
 1. NETWORK ACCURACY: 0.10 FOOT
 2. LOCAL ACCURACY: 0.05 FOOT

2. BEARINGS:

THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL. THE ANGLE OF VARIANCE BETWEEN GRID NORTH (GN) AND THE ASTRONOMICAL TRUE NORTH (TN) IS DEPICTED DIAGRAMMATICALLY.

3. VERTICAL CONTROLS:

A. LEVEL DATUM IS NAVD 88 FROM STATIC GPS.

B. ACCURACY - VERTICAL CONTROL FOR THIS SURVEY MEETS OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:
 1. NETWORK ACCURACY (FROM GPS OR LEVELING): 0.10 FOOT
 2. LOCAL ACCURACY (CONFIRMED BY LEVELING): 0.02 FOOT

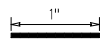
SURVEY BEGAN: May 17, 2022
 SURVEY COMPLETED: July 18, 2022

SURVEY CREW MEMBERS:

Tony Robison, Professional Land Surveyor
 Jerry Townsend, Professional Land Surveyor
 Ryan Thomson, Party Chief
 Dakota Robison, Draftsman/Survey Technician
 Tanner Thomson, Survey Technician
 Anthony Carney, Survey Technician

EQUIPMENT:

2 TRIMBLE R10 GPS RECIEVER
 2 TRIMBLE R10-2 GPS RECIEVER
 2 TRIMBLE R12i GPS RECIEVER
 1 TRIMBLE TSC3 DATA COLLECTOR
 1 TRIMBLE TDC600 DATA COLLECTOR
 2 TRIMBLE TSC5 DATA COLLECTOR
 1 TRIMBLE S5 ROBOTIC TOTAL STATION
 1 NIKON N 2" TOTAL STATION
 1 TRIMBLE M3 TOTAL STATION
 1 TRIMBLE DINI DIGITAL LEVEL

SCALES 
 SURVEY DATA SHEETS 1" = 50' TOWN
 SURVEY DATA SHEETS 1" = 100'
 GEOMETRIC DATA SHEETS 1" = 500'

THIS SURVEY MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, NOVEMBER 01, 2020.

SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED JANUARY, 2022 GOVERN.

SURVEY DATA SHEETS

LINCOLN COUNTY

S.H. 66

SWO 5598(1)

STATE JOB NO. 35217(04)

PROJECT LOCATION

INDEX OF SURVEY SHEETS

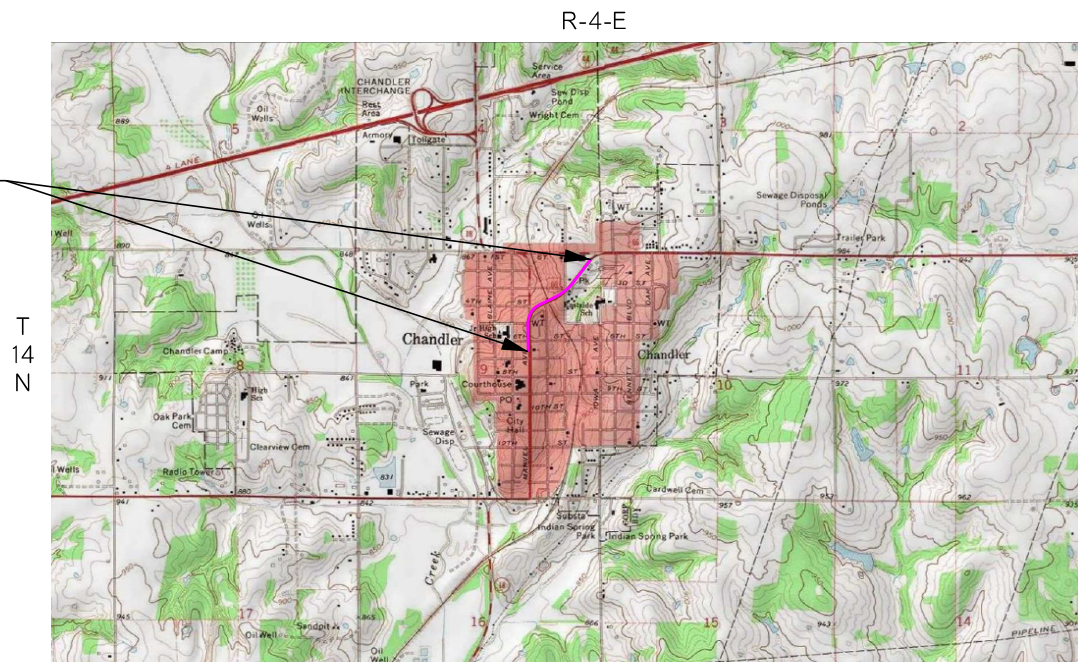
S001. TITLE SHEET
 S002-S006. SURVEY REPORTS
 S007-S008. SURVEY DATA SHEETS
 S009. LAND TIES

UTILITY COMPANY OWNER'S LIST

City of Chandler	405-258-3200
ONG	800-664-5463
OG&E	800-522-6870
AT&T	866-308-7214

"CALL BEFORE YOU DIG"
 THE NEW NATIONAL LOCATE NUMBER
 811

SURVEY EXTENTS



LINCOLN CO.
 PROJECT LENGTH 2,206 Ft. 0.42 MI.

A001 BEGINNING STATION : 32+78.63
 A001 ENDING STATION : 54+84.23

STATE OF OKLAHOMA
 DEPARTMENT OF TRANSPORTATION

SWO 5598(1) Job/Piece 35217(04) Engr. Contract No. 2321E

LAND SURVEYOR'S CERTIFICATION

I hereby certify that all land and property sub-division distances, angles, corners, and monumentation made or used in conjunction with this survey and depicted or recorded herein or hereon were recovered, established or re-established in substantial conformity with:

- Applicable instructions contained in the U.S. Government Bureau of Land Management publication "Manual of Survey Instruction",
- Its supplement, "Restoration of Lost or Obliterated Corners and Sub-division of Sections",
- "Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by the State Board of Licensure for Professional Engineers and Land Surveyors; and
- Sound land surveying practices;

including a thorough search, study, analysis and consideration of all existing records and field evidence.

I further certify that all survey monuments depicted exist and that all land survey work was done by me or under my direct supervision.

Dated this 14 day of July, 2022.

Land Surveyor Tony Robison (seal)
 Signature



Tony Robison
 Printed Name

Oklahoma Licensed Land Surveyor No. 1686

Certificate of Authorization No. 4849

Heartland Surveying & Mapping, PLLC

CA #4849
 600 Emporia St., Ste. "C"
 Muskogee, Oklahoma 74401
 (918) 682-7796



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PLS	TR	OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DR	
CHECKED	TR	
APPROVED	TR	
CREW	HL	
COUNTY LINCOLN HIGHWAY SH.66 STATE JOB NO. 35217(04) SHEET NO. S001		SURVEY DATA SHEET SWO 5598(1)

SWO5598(1) – J/P No. 35217(04)
 S.H. 66 Lincoln County
 Bridge over S.W.C. Railroad,
 0.9 miles East of Jct. Sh-18
 Historical Letter & Written Report

1. GENERAL:
 Survey Began: May 17, 2022
 Survey Completed: July 18, 2022

Personnel on this survey:

Tony Robison	Licensed Land Surveyor
Jerry Townsend	Licensed Land Surveyor
Ryan Thomson	Party Chief
Dakota Robison	Survey Technician / Draftsman
Tanner Thomson	Survey Technician
Anthony Carney	Survey Technician

2. ASSIGNMENT:

This survey was assigned to me by Mr. Geoffrey King of the ODOT Survey Department, via email dated 04/27/2022. Heartland Surveying and Mapping, PLLC, under the direct supervision of Mr. Tony Robison, began work on the project on 05/17/2022.

3. PURPOSE:

The purpose of this survey was to furnish sufficient data to develop Preliminary Engineering and Preparation of Construction plans. The survey included the Alignment, Right-of-Way, Topographic/Planimetric data, Surface Features, Land Ties, Utilities, Drainage, and all other pertinent information needed to aid in design.

4. LIMITS:

The survey began at the intersection of S.H. 66 and W. 5th St. The survey ended 2,206 feet Northeast along S.H. 66 at 100 feet Northeast of the intersection of S.H. 66 and E. 3rd St.

The survey width is 150 feet left and right of centerline along S.H. 66.

5. ALIGNMENT:

S.H. 66: The centerline of survey (A001) is from S.A.P. No. 132(3) provided by ODOT personnel. Under the direction of Geoffrey King, we used recovered centerline references to determine the original location of centerline. Summary of recovery as described below:

We used found block corners from W. 7th St. to W. 4th St. to place the bearing of the tangent from POB Sta. 32+78.63 to PI Sta. 40+27.90. We held 1 found Chiseled "X" reference to place PI Sta. 40+27.90. From PI Sta. 40+27.90 we used 1 found Building Corner reference to place PI Sta. 47+66.55. This location of centerline was confirmed by 1 found #4 Rebar reference at PC Sta. 45+40.69. From PI Sta. 47+66.55 we held 1 found #4 Rebar reference at PT Sta. 49+84.23 to place the bearing of the tangent that extends to POE Sta. 54+84.23.

6. STATIONING:

A001: The stationing for this alignment was given a value of 37+78.63 at the PC North of the intersection of S.H. 66 and W. 5th St. to match stationing from S.A.P. No. 132(3). The stationing begins at station 32+78.63 102 feet South of the intersection of S.H. 66 and W. 6th St. and ends at station 54+84.23 543 feet Northeast of the intersection of S.H. 66 and E. 3rd St.

7. HORIZONTAL CONTROL:

Horizontal control for this survey is Oklahoma State Plane Coordinate System, NAD83(2011), North Zone (3501) and was derived from the ODOT Real-Time Network.

The primary control points were established by Heartland Surveying and Mapping, PLLC.

Primary control points established:

7401	3"x5/8" Iron Pin with Aluminum Cap. (ODOT No. L-41-1007)
7402	3"x5/8" Iron Pin with Aluminum Cap. (ODOT No. L-41-1008)

8. VERTICAL CONTROL:

a.) Vertical control for this survey is NAVD88, derived from ODOT monument L-41-540 from SWO4199(1).

b.) All differential leveling was conducted by Heartland Surveying and Mapping, PLLC, and were run to all existing benchmarks set by Heartland personnel.

A benchmark list depicting all established benchmarks, as well as results of the control leveling has been placed in the archived Design File.

9. MEASUREMENT UNITS:

The distances, coordinates, and elevations shown on this survey are in U.S. Survey Feet. All angles and bearings shown are in degrees, minutes, and seconds.

10. PHOTO CONTROLS:

Thirteen mobile targets were placed by CEC Corporation prior to acquisition of mobile LiDAR.

11. TOPOGRAPHY/PLANIMETRICS:

Topography information was obtained during this survey by field conventional, RTK GPS, and mobile LiDAR methods along the present right-of-way of S.H. 66.

Mapping limits are as follows:

The mapping width is 150 feet left and right of centerline along S.H. 66.

12. TERRAIN MODEL:

All surface feature information was obtained during this survey by field conventional, RTK GPS, and mobile LiDAR methods.

13. ENVIRONMENTAL CONCERNS:

No evidence was found of hazardous waste sites during this survey.
 No evidence was found of cemeteries during this survey.

14. UTILITIES:

All underground utilities servicing the project extents were located by the SUE services of CEC Corporation. Underground utilities were tied to the survey and submitted in DGN format by CEC Corporation.

15. LAND TIES:

Complete land ties for this survey consisted of the following section:

Section 9, Township 14 North, Range 4 East, LB.&M., Lincoln County, State of Oklahoma.

A search was made at all corner locations for any trace of the original monuments and/or accessories. The original government survey was completed by the surveyors listed below:

Surveyor	Date	Organization
Eliud N. Darling	Oct. 21 – Oct. 28, 1871,	U.S. General Land Office
Henry C.F. Hackbusch	Mar. 6 – May 19, 1875,	U.S. General Land Office

Original survey notes and plats were obtained from the Bureau of Land Management for the section being surveyed and adjoining sections. Records were obtained of current filed section and quarter section corners from Hub Task.

Existing ODOT monument numbers have been retained for corners set in previous ODOT surveys. A Land Tie Data Sheet showing all findings and actions at each section and quarter section corner has been created and archived.

16. PROPERTY OWNERS RIGHT-OF-WAY:

Information on property ownership shown on this survey was obtained from records at the Lincoln County Clerk's Office.

Right-of-way for S.H. 66 was re-established using S.A.P. No. 132(3) and records from the Lincoln County Clerk's Office.

17. DRAINAGE:

Drainage/Hydraulic information for this survey was calculated from field data and USGS quadrangle maps. None of the crossing drains on this survey have drainage areas greater than three acres. The project is in Flood Zone X, according to FEMA Map Number 40081C0360D with an effective date of August 19, 2010.

PLS	TR		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
DRAWN	DR		SURVEY DATA SHEET SWO <u>5598(1)</u>	
CHECKED	TR			
APPROVED	TR			
CREW	HL			
COUNTY	LINCOLN	HIGHWAY	SH.66	STATE JOB NO. 35217(04) SHEET NO. S002

18. SUBMITTED DATA:

REPORTS

1. ODOT form SD-20, Survey Control.
2. ODOT form SD-41, Surveyor's Certification.
3. ODOT form SD-7, Public & Privately-owned Utilities List.
4. ODOT form SD-11, Monument Position and Description.
5. Oklahoma Certified Corner Records.
6. Benchmark and Check Level List.
7. Alignment Report.
8. COGO List.
9. OSSDA Form.

DGN

10. Topography File.
11. Main Design File.
12. Mobile LiDAR File.
13. SUE Utilities File.
14. Final Terrain File.

Tony Polison 7/26/2022

POINT	EASTING	NORTHING	ELEVATION	POINT	EASTING	NORTHING	ELEVATION
1000	2301023.53800	259679.59820		7622	2300982.38000	259236.17960	
1001	2301189.15500	259189.97840		7623	2300985.97600	259237.97190	
1002	2301483.06600	258764.80480		7624	2301113.22700	259300.69340	
1003	2301100.13790	259462.74610		7625	2301148.14700	259225.37040	
1004	2301202.25560	259196.55940		7626	2301053.45500	259444.83710	
1005	2301354.83230	258955.71990		7627	2301202.03400	259118.97120	
1006	2301162.36740	259269.17060		7628	2301257.14300	259020.14260	
1007	2301172.48630	259274.15810		7629	2301268.85100	259000.25360	
1008	2301307.82760	259018.30550		7630	2301312.59500	258928.96160	
1009	2301315.18220	259018.30680		7631	2301202.99100	259344.93740	
1010	2301316.29820	259018.30700		7632	2301198.75200	259354.51520	
101	2301606.48300	259549.81500	952.978	7633	2301146.82100	259480.65500	
102	2301342.03600	259377.98900	939.568	7634	2301237.84700	259269.58320	
103	2301077.70400	259211.07300	937.455	7635	2301254.75200	259235.01590	
104	2300750.97500	258801.17500	948.43	7636	2301293.22400	259160.49400	
300	2300794.92800	258333.72230		7637	2301372.94600	259021.24980	
301	2300787.96600	258833.67380		7638	2301385.20800	259001.36620	
302	2301182.54300	258839.16850		7639	2301397.07000	258982.47810	
303	2300784.49500	259082.91970		7640	2301248.57800	259367.40680	
304	2301008.08100	259193.12380		7641	2301248.47300	259374.94210	
305	2301292.79300	259333.45670		7642	2301248.19400	259394.94010	
306	2300871.36800	260188.45830		7643	2301307.38300	259303.85690	
307	2301495.38100	259433.31100		7644	2301339.50100	259396.21160	
308	2301631.62600	259613.44990		7645	2301432.60300	259377.50620	
309	2301933.24000	260012.23440		7646	2301498.44800	259378.42310	
310	2300793.51100	258435.50890		7647	2301500.39700	259238.43660	
311	2300788.22100	258815.36160		7648	2301590.32700	259239.68890	
312	2300830.88600	259018.21670		7649	2301589.32300	259379.68850	
313	2300785.39600	259018.20830		7650	2301589.18000	259399.68850	
314	2300990.71800	259184.02300		7651	2301588.45200	259501.23610	
315	2300990.71400	259184.56340		7652	2301496.57100	259513.23670	
316	2301011.05800	259194.59090		7653	2301496.22100	259538.40760	
317	2301178.86700	259277.30310		7654	2301623.84800	259540.18480	
318	2301542.48800	259511.53520		7655	2301196.25000	259534.23040	
319	2301605.06900	259579.92720		7656	2301888.14800	259543.86530	
7300	2300761.52400	260282.21970	910.95000	7657	2301587.58800	259621.89110	
7401	2300874.56400	259023.54050	943.348	7658	2301712.89200	259621.43260	
7402	2301898.35900	260083.42950	968.453	7659	2301195.13700	259614.22260	
7600	2300758.24900	258094.98490		7660	2301495.10700	259618.39980	
7601	2300838.24100	258096.09880		7661	2301493.15800	259758.38630	
7602	2300754.07200	258394.95580		7662	2302267.79600	259629.15980	
7603	2300834.06400	258396.06980		7663	2301599.72300	259637.57900	
7604	2300752.95800	258474.94810		7664	2301735.57000	259817.19160	
7605	2300832.95000	258476.06200		7665	2301727.59500	259823.22380	
7606	2300748.78000	258774.91900		7666	2301739.65900	259839.17520	
7607	2300828.77300	258776.03580		7667	2301747.63500	259833.14290	
7608	2300747.66600	258854.91120		7668	2301884.69800	259848.58920	
7609	2300827.65900	258856.02880		7669	2301868.74700	259860.65380	
7610	2300826.97600	258905.03090		7670	2301997.55200	260163.57570	
7611	2300743.48900	259154.88220		7671	2302061.35800	260115.31750	
7612	2300824.17800	259106.00690		7672	2300745.39300	259018.20080	
7613	2300823.48100	259156.00260		7673	2300868.37000	259018.22370	
7614	2300826.92200	259106.03320		7674	2300991.05800	259145.92410	
7615	2300871.07800	259156.45770		7675	2300990.21900	259240.06350	
7616	2300896.13400	259156.69720		7676	2301258.22100	259018.29620	
7617	2300963.89600	259127.19490		7677	2301374.73900	259018.31790	
7618	2300983.70300	259141.20870		7678	2301582.73400	260299.25460	
7619	2301011.54800	259157.80080		8000	2300458.27800	258090.80770	
7620	2301022.68800	259163.53280		8001	2300598.26400	258092.75710	
7621	2300982.64500	259217.18400		8002	2300618.26200	258093.03560	

POINT	EASTING	NORTHING	ELEVATION	POINT	EASTING	NORTHING	ELEVATION
8003	2300978.22700	258098.04820		8063	2301505.63100	258862.51120	
8004	2300998.22500	258098.32670		8064	2301203.69600	258999.63060	
8005	2301138.21200	258100.27610		8065	2301503.68200	259002.49900	
8006	2300454.10100	258390.77860		8066	2301203.41700	259019.62890	
8007	2300594.08700	258392.72800		8067	2301503.40400	259022.49720	
8008	2300614.08500	258393.00650		8068	2301501.45500	259162.48500	
8009	2300974.05000	258398.01910		8069	2301890.29700	259243.86610	
8010	2300994.04800	258398.29760		8070	2301198.47800	259374.24590	
8011	2300995.08700	258323.70760		8071	2301889.29400	259383.86580	
8012	2300994.77600	258398.30770		8072	2301198.19900	259394.24390	
8013	2301134.03500	258400.24700		8073	2301889.15100	259403.86570	
8014	2300452.98700	258470.77090		8074	2301193.18800	259754.20910	
8015	2300592.97300	258472.72020		8075	2301192.90900	259774.20710	
8016	2300612.97100	258472.99870		8076	2301492.88000	259778.38430	
8017	2300972.94500	258477.40060		8077	2301190.96000	259914.19350	
8018	2300992.94400	258477.59180		8078	2301490.93100	259918.37070	
8019	2300994.44600	258477.60610		8079	2302159.38800	260306.99330	
8020	2301132.93900	258478.93030		8080	2302202.72900	260239.63880	
8021	2300448.80900	258770.74180		8081	2302207.69200	260230.95750	
8022	2300588.79600	258772.69120		8082	2302263.42700	260258.01000	
8023	2300608.79400	258772.96960		9000	2297134.00500	255041.49900	
8024	2300968.76800	258777.37430		9001	2299687.49900	255035.65600	
8025	2300988.76700	258777.56560		9002	2302321.59700	255079.37600	
8026	2300993.19700	258777.60790		9003	2297074.98900	257679.24100	
8027	2301128.76200	258778.90410		9004	2299681.32000	257661.90000	
8028	2300447.69600	258850.73400		9005	2302314.21900	257697.15400	
8029	2300587.68200	258852.68340		9006	2297032.33400	260355.78700	
8030	2300607.68000	258852.96190		9007	2299664.90200	260349.87900	
8031	2300967.65400	258857.36730		9008	2302295.85900	260339.82800	
8032	2300987.65300	258857.55860		9009	2298410.75200	255038.57750	
8033	2300992.86400	258857.60840		9010	2301004.54800	255057.51600	
8034	2301127.64800	258858.89710		9011	2297104.49700	256360.37000	
8035	2300445.36400	259018.14500		9012	2298407.85000	256367.34380	
8036	2300585.37800	259018.17110		9013	2299711.20300	256374.31750	
8037	2300605.37900	259018.17480		9014	2301014.55500	256381.29130	
8038	2300965.41300	259018.24180		9015	2302317.90800	256388.26500	
8039	2300985.41500	259018.24550		9016	2298378.15500	257670.57050	
8040	2301125.42800	259018.27150		9017	2300997.77000	257679.52700	
8041	2300443.51800	259150.70500		9018	2297053.66200	259017.51400	
8042	2300583.50500	259152.65430		9019	2298366.50600	259017.75820	
8043	2300603.50300	259152.93280		9020	2299679.35000	259018.00250	
8044	2301123.47100	259158.87090		9021	2300992.19500	259018.24680	
8045	2300442.50200	259223.69790		9022	2302305.03900	259018.49100	
8046	2300582.48800	259225.64720		9023	2298348.61800	260352.83300	
8047	2300602.48600	259225.92570		9024	2300980.38100	260344.85350	
8048	2300742.47300	259227.87510					
8049	2300822.46500	259228.99620					
8050	2300962.45100	259230.94550					
8051	2300438.32500	259233.66880					
8052	2300578.31100	259235.61820					
8053	2300598.30900	259235.89660					
8054	2300738.29600	259237.84600					
8055	2300818.28800	259238.96710					
8056	2300958.27400	259239.91650					
8057	2300978.27200	259239.91650					
8058	2300987.62500	259239.91650					
8059	2301021.46500	259239.91650					
8060	2301205.64500	258859.64290					
8061	2301356.77200	258861.08790					
8062	2301476.68000	258862.23440					

Project Name: SWO5598_1_V1
 Horizontal Alignment Name: A001
 Description: SH 66
 Style: Centerline

	STATION	EASTING	NORTHING
Element: Linear			
POB (300)	32+78.63	258333.7223	2300794.9281
PC (301)	37+78.63	258833.6738	2300787.9661
Tangential Direction:	N00°47'52.13"W		
Tangential Length:	500.00		
Element: Circular			
PC (301)	37+78.63	258833.6738	2300787.9661
PI (303)	40+27.90	259082.9197	2300784.4952
CC (302)		258839.1685	2301182.5434
PT (304)	42+23.27	259193.1238	2301008.0810
Radius:	394.62		
Delta:	64°33'33.85" Right		
Degree of Curvature (Arc):	14°31'09.81"		
Length:	444.64		
Tangent:	249.27		
Chord:	421.49		
Middle Ordinate:	60.99		
External:	72.14		
Back Tangent Direction:	N00°47'52.13"W		
Back Radial Direction:	N89°12'07.87"E		
Chord Direction:	N31°28'54.80"E		
Ahead Radial Direction:	S26°14'18.28"E		
Ahead Tangent Direction:	N63°45'41.72"E		
Element: Linear			
PT (304)	42+23.27	259193.1238	2301008.0810
PC (305)	45+40.69	259333.4567	2301292.7931
Tangential Direction:	N63°45'41.72"E		
Tangential Length:	317.42		
Element: Circular			
PC (305)	45+40.69	259333.4567	2301292.7931
PI (307)	47+66.55	259433.3110	2301495.3810
CC (306)		260188.4583	2300871.3680
PT (308)	49+84.23	259613.4499	2301631.6260
Radius:	953.22		
Delta:	26°39'36.60" Left		
Degree of Curvature (Arc):	06°00'38.76"		
Length:	443.54		
Tangent:	225.86		
Chord:	439.55		
Middle Ordinate:	25.68		
External:	26.39		
Back Tangent Direction:	N63°45'41.72"E		

Back Radial Direction: S26°14'18.28"E
 Chord Direction: N50°25'53.43"E
 Ahead Radial Direction: S52°53'54.87"E
 Ahead Tangent Direction: N37°06'05.13"E

Element: Linear			
PT (308)	49+84.23	259613.4499	2301631.6260
POE (309)	54+84.23	260012.2344	2301933.2399
Tangential Direction:	N37°06'05.13"E		
Tangential Length:	500.00		

PLS	TR		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DR		
CHECKED	TR		
APPROVED	TR		
CREW	HL		
SURVEY DATA SHEET			
SWO_5598(1)			
COUNTY	LINCOLN	HIGHWAY	SH.66 STATE JOB NO. 35217(04) SHEET NO. S004

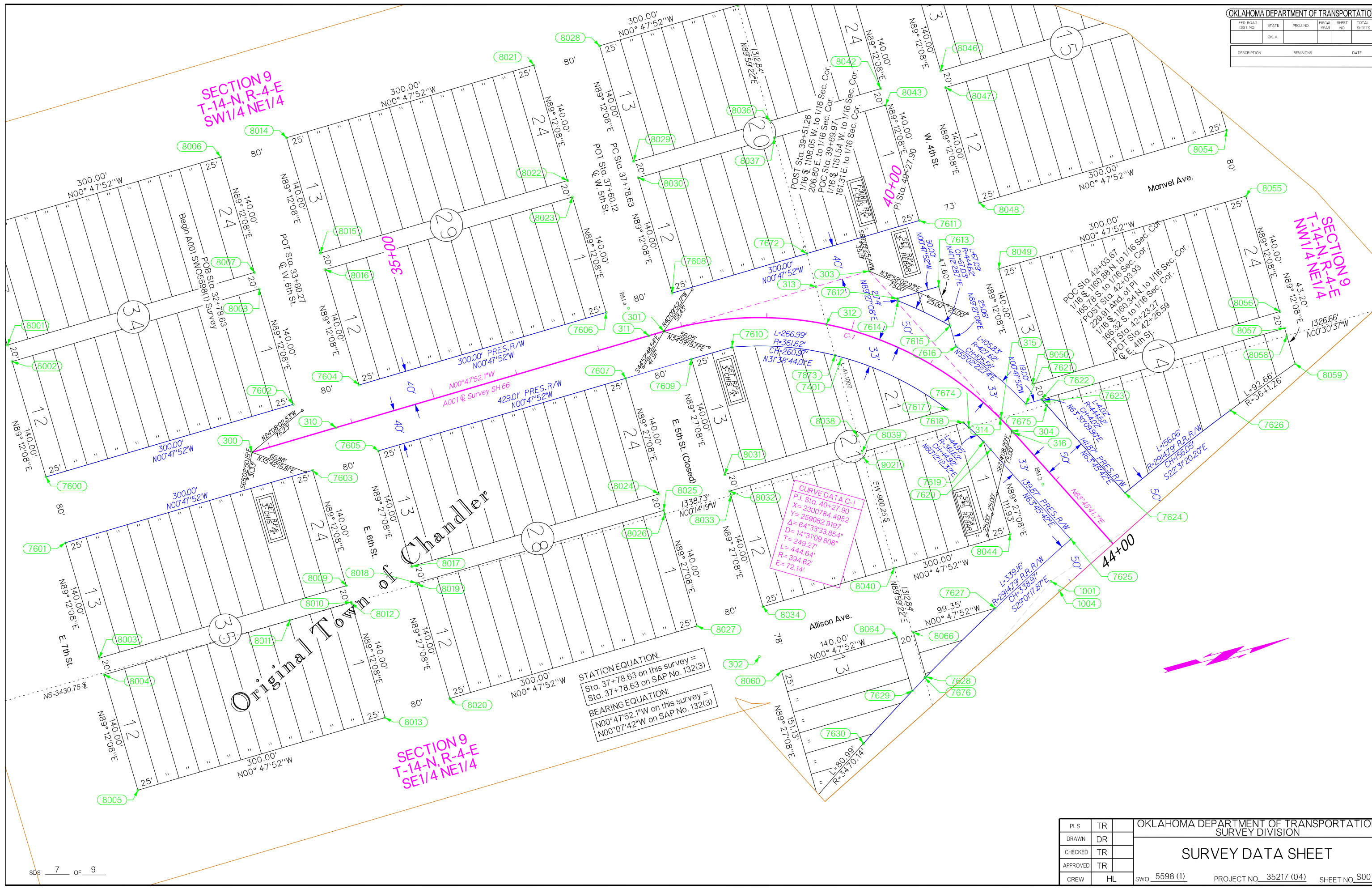
S.H. 66
 BRIDGE OVER SLWC RAILROAD, 0.9 MILES EAST OF JCT. SH-18
 SWO 5598(1) J/P 35217(04)
 LINCOLN COUNTY

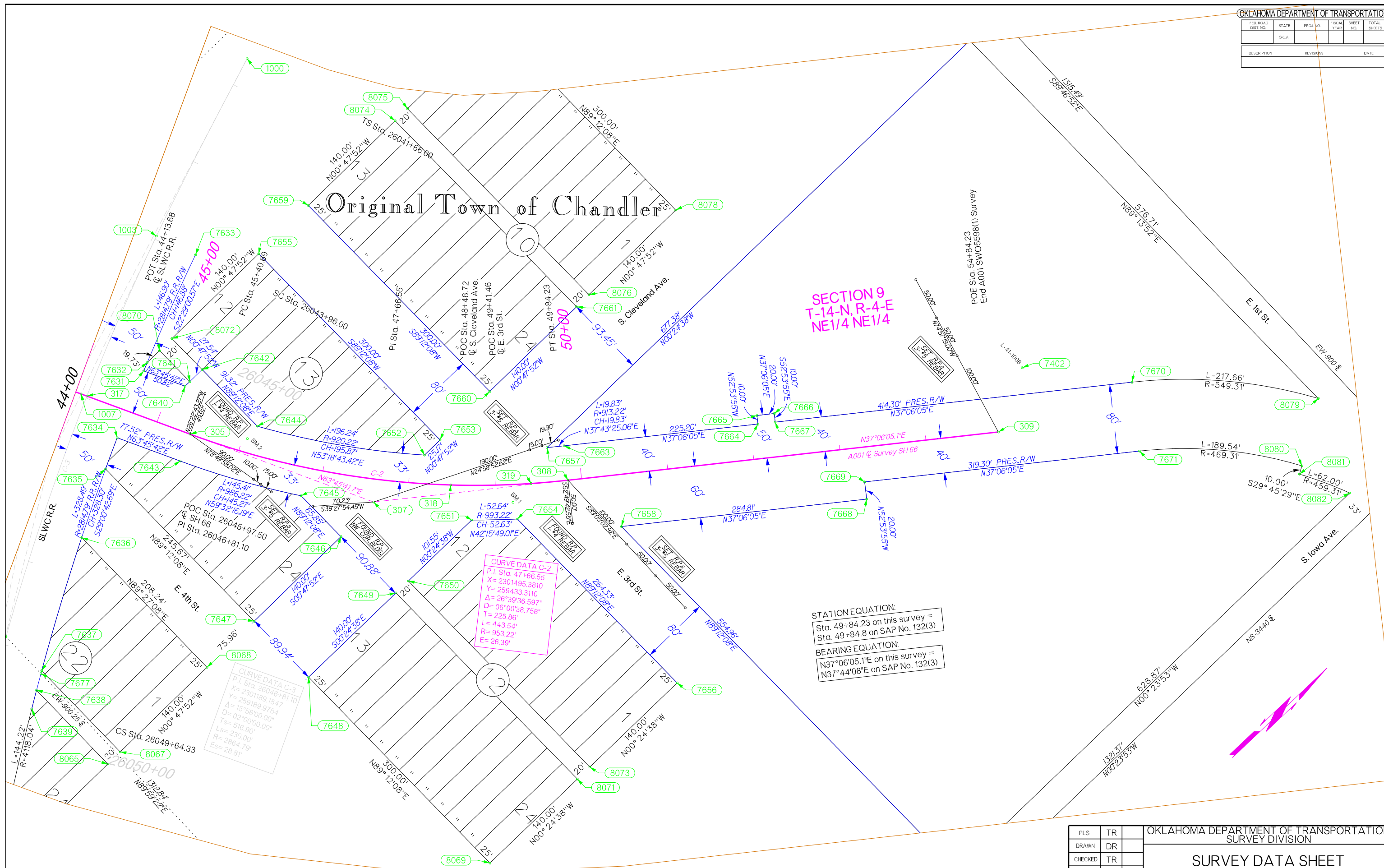
DATUM: NAVD88

BENCH MARK AND CHECK LEVEL LIST

STATION	DIFF. EL. 1ST RUN	DIFF. EL. 2ND RUN	MEAN DIFF. ELEVATION	UNADJUSTED ELEVATION	ADJUSTED ELEVATION	STATION	OFFSET	DESCRIPTION
7300*	57.4972	-57.5044	57.5008		910.9500			FENO MARKER & BRASS CAP (L-41-540) (SWO4199) SOURCE
7402	-15.4779	15.4750	-15.4765	968.4508	968.4530			ALUMINUM CAP ON 3' x 5/8" IRON PIN (L-41-1008)
BM1	-13.4113	13.4121	-13.4117	952.9744	952.9780	49+19.7	20.6 R	CHISELED SQUARE ON CONCRETE CURB
BM2	-2.1157	2.1141	-2.1149	939.5627	939.5680	46+05.7	16.0 L	CHISELED SQUARE ON CONCRETE CURB
BM3	5.8914	-5.8910	5.8912	937.4478	937.4550	42+93.7	14.7 R	CHISELED SQUARE ON CONCRETE CURB
7401	5.0799	-5.0802	5.0801	943.3390	943.3480	39+97.0	35.7 R	ALUMINUM CAP ON 3' x 5/8" IRON PIN (L-41-1007)
BM4				948.4190	948.4300	37+46.6	37.4 L	CHISELED SQUARE ON CONCRETE CURB

PLS	TR		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DR		
CHECKED	TR		SURVEY DATA SHEET
APPROVED	TR		
CREW	HL		SWO 5598(1)
COUNTY	LINCOLN	HIGHWAY	SH.66 STATE JOB NO. 35217(04) SHEET NO. 5005





SECTION 9
T-14-N, R-4-E
NE1/4 NE1/4

CURVE DATA C-2
 P.I. Sta. 47+66.55
 X= 2301495.3810
 Y= 259433.3110
 Δ= 26°39'36.597"
 D= 06°00'38.758"
 T= 225.86'
 L= 443.54'
 R= 953.22'
 E= 26.39'

CURVE DATA C-3
 P.I. Sta. 26046+81.10
 X= 2301189.1547
 Y= 259189.9784
 Δ= 15°58'00.00"
 D= 02°00'00.00"
 Ts= 516.90'
 Ls= 230.00'
 R= 2864.79'
 Es= 28.81'

STATION EQUATION:
 Sta. 49+84.23 on this survey =
 Sta. 49+84.8 on SAP No. 132(3)

BEARING EQUATION:
 N37°06'05.1"E on this survey =
 N37°44'08"E on SAP No. 132(3)

North Quarter Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-545
 Found 80D Spike filed by PLS#1365 in OCCR dated 7/13/2006. Found 3 references set by PLS#1365.
 Used as found.

Northwest Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-542
 Found 1/2" Iron Pin filed by PLS#1365 in OCCR dated 7/13/2006. Found 2 references set by PLS#1365.
 Used as found.

Northeast Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-546R
 Found Mag Nail filed by PLS#1663 in OCCR dated 7/13/2017. Found 3 references set by PLS#1663.
 Used as found.

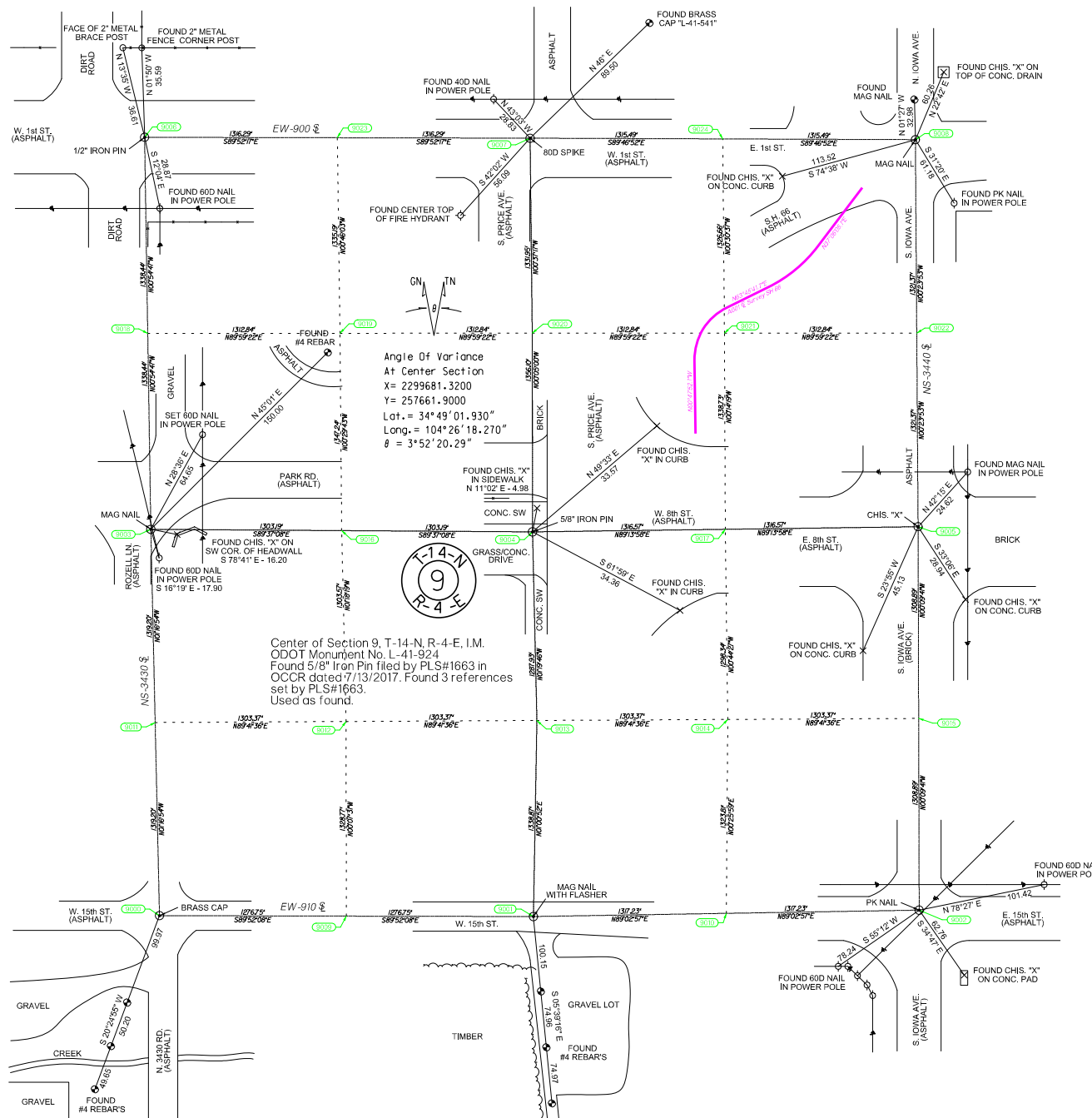
Southwest Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-923
 Found Mag Nail filed by PLS#1591 in OCCR dated 8/20/2010. Found 1 reference set by PLS#1591, and 2 references set by PLS#1663.
 Used as found.

East Quarter Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-925
 Found Chiseled "X" in brick paving filed by PLS#1663 in OCCR dated 7/13/2017. Found 2 references set by PLS#1663, and 1 reference set by PLS#1335.
 Used as found.

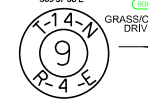
Southwest Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-204
 Found ODOT Brass Monument set by PLS#1080 in OCCR dated 2/6/1991. Found 3 References set by PLS#1551.
 Used as found.

Southeast Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-199
 Found PK Nail over ODOT Brass Monument filed by PLS#1551 in OCCR dated 2/27/2014.
 Found 3 references set by PLS#1200.
 Used as found.

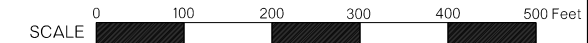
South Quarter Corner of Section 9, T-14-N, R-4-E, I.M.
 ODOT Monument No. L-41-205
 Found 3 references set by PLS#1551
 Set Mag Nail with Flasher stamped "CA4849" using 3 found references set by PLS#1551 in OCCR dated 2/27/2014.



Angle of Variance
 At Center Section
 X = 2299681.3200
 Y = 257661.9000
 Lat. = 34° 49' 01.930"
 Long. = 104° 26' 18.270"
 θ = 3° 52' 20.29"



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

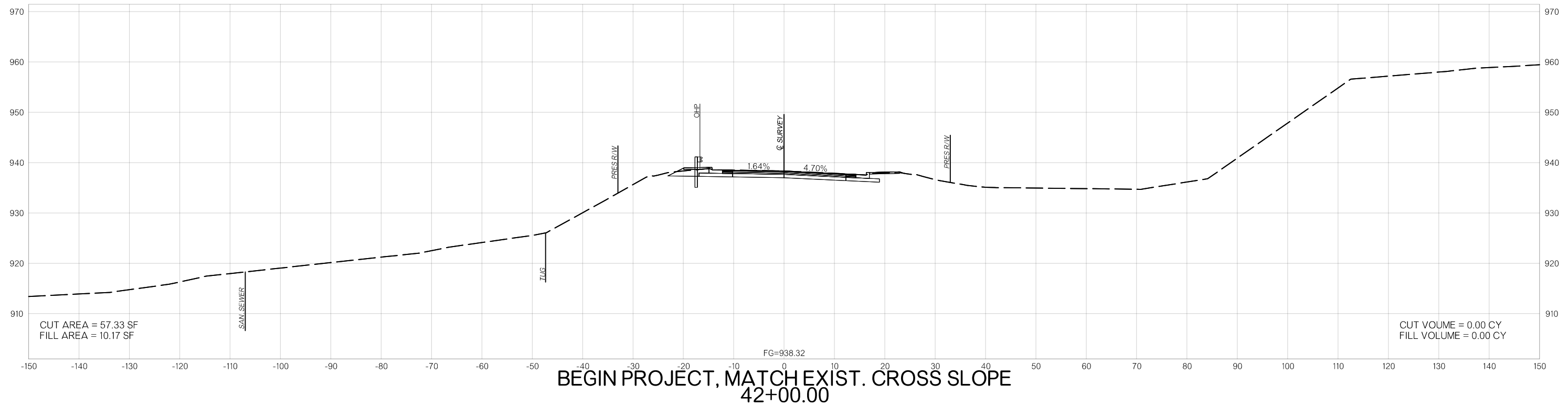
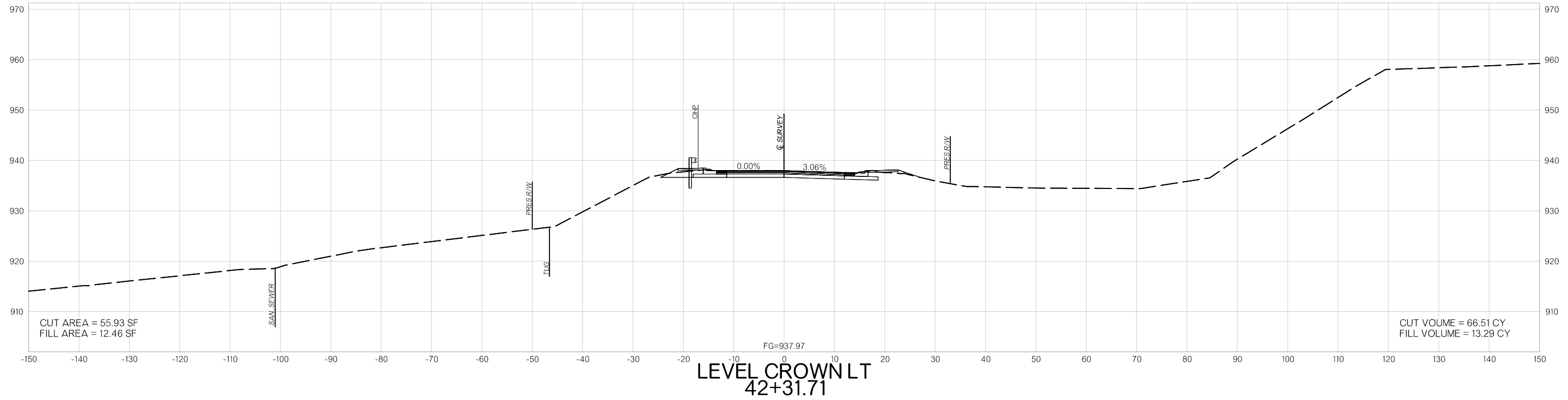


PLS	TR		OKLAHOMA DEPARTMENT OF TRANSPORTATION				
DRAWN	DR		SURVEY DIVISION				
CHECKED	TR		SURVEY DATA SHEET				
APPROVED	TR						
CREW	HL		SWO_5598(1)				
COUNTY	LINCOLN	HIGHWAY	SH 66	STATE JOB NO.	35217(04)	SHEET NO.	S009



END AREAS (SF)

VOLUMES (CY)



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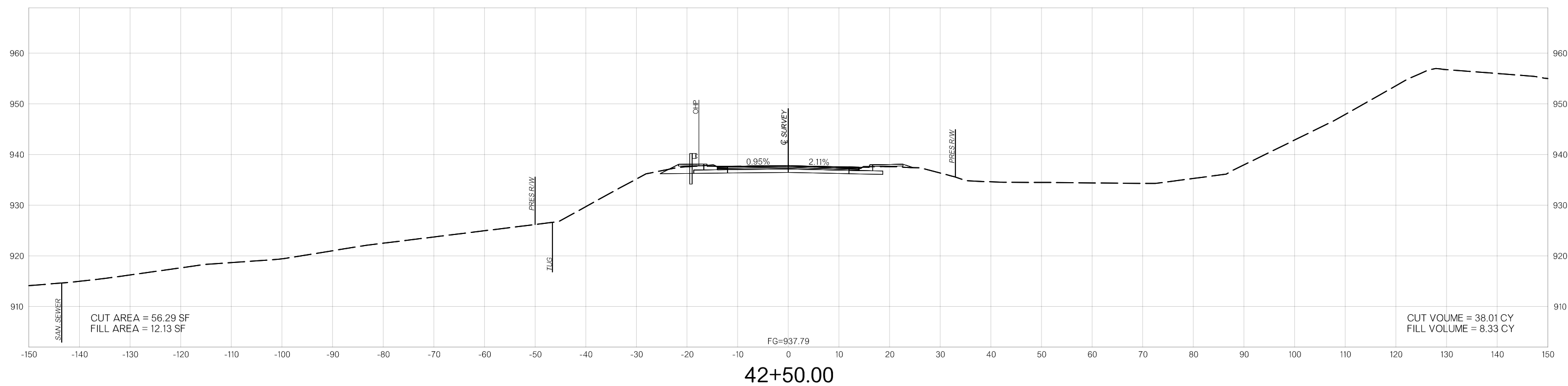
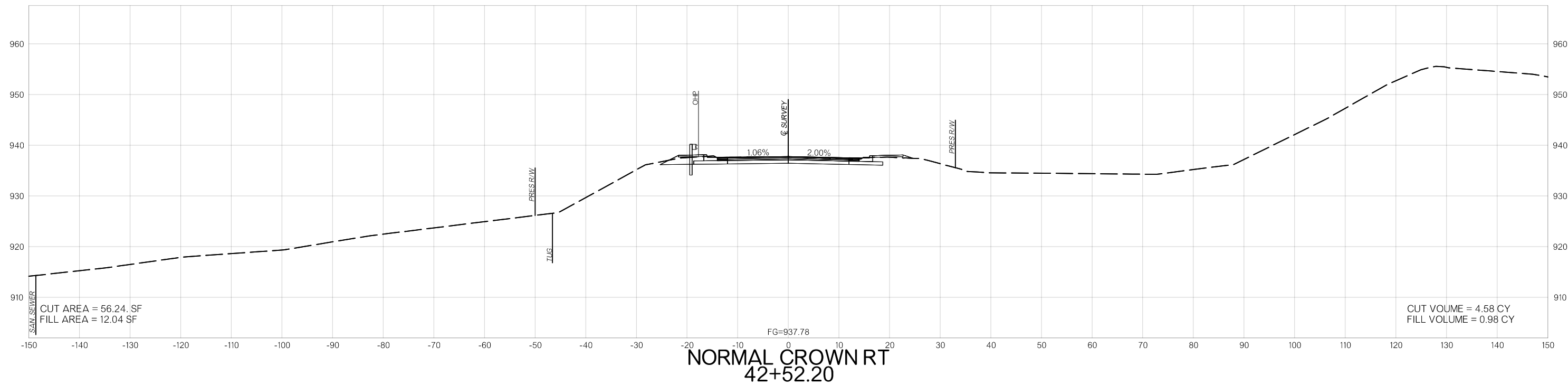
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PROPOSED
R/W

8/1/2024

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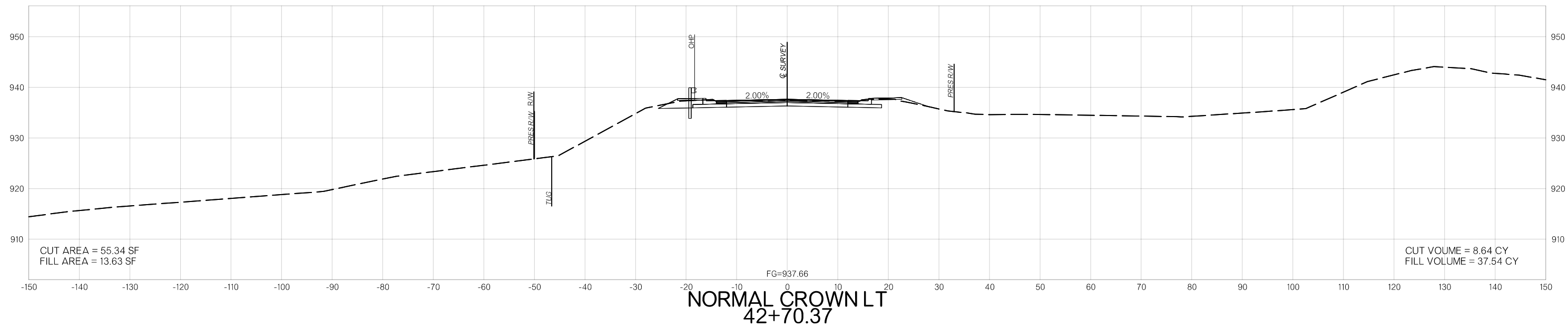
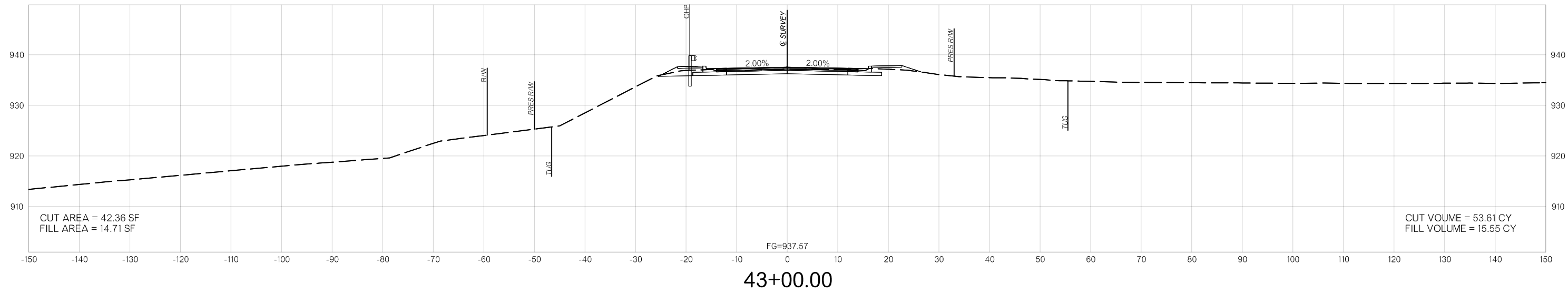
VOLUMES (CY)



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END AREAS (SF)

VOLUMES (CY)

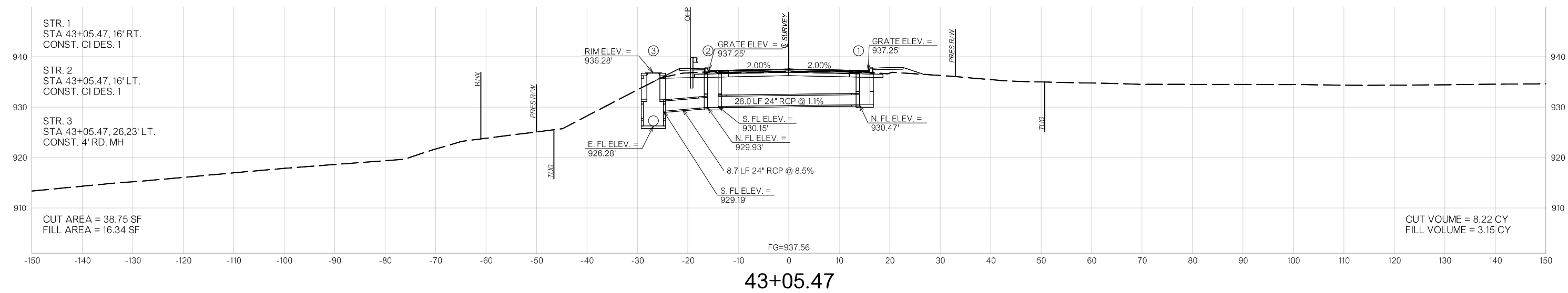
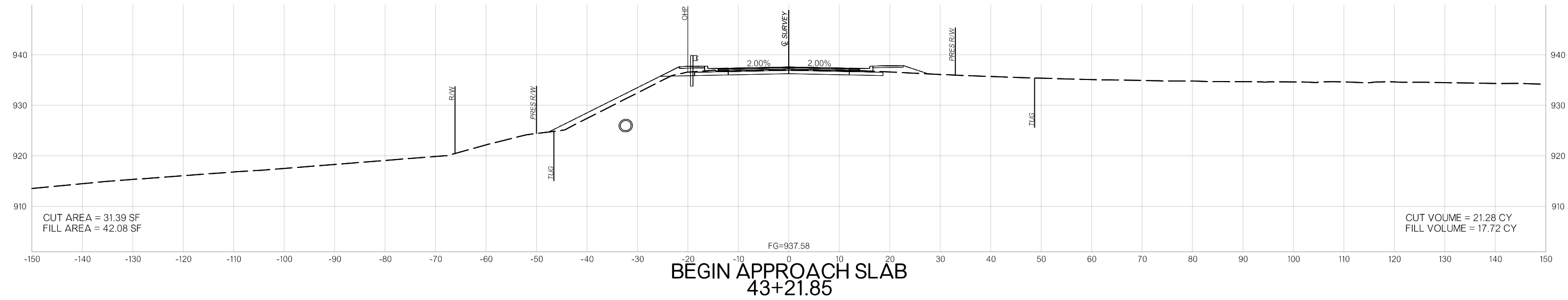


NORMAL CROWN LT
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END AREAS (SF)

VOLUMES (CY)

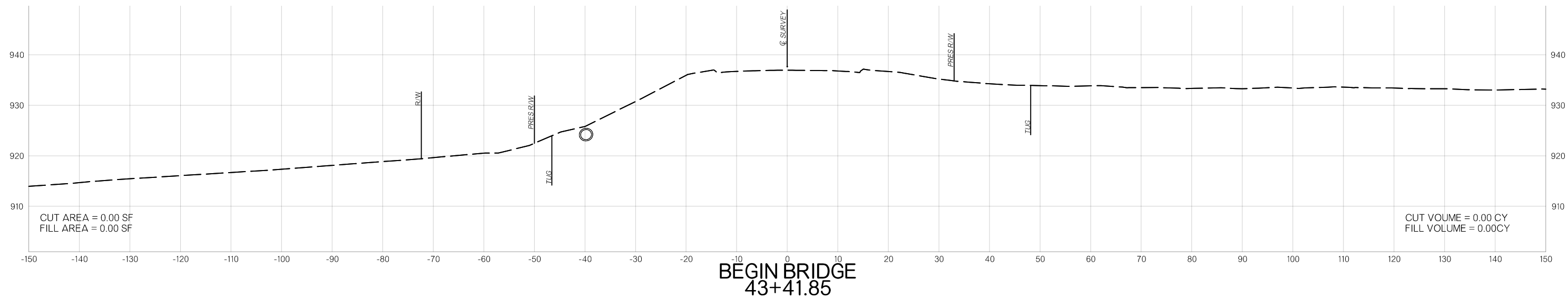
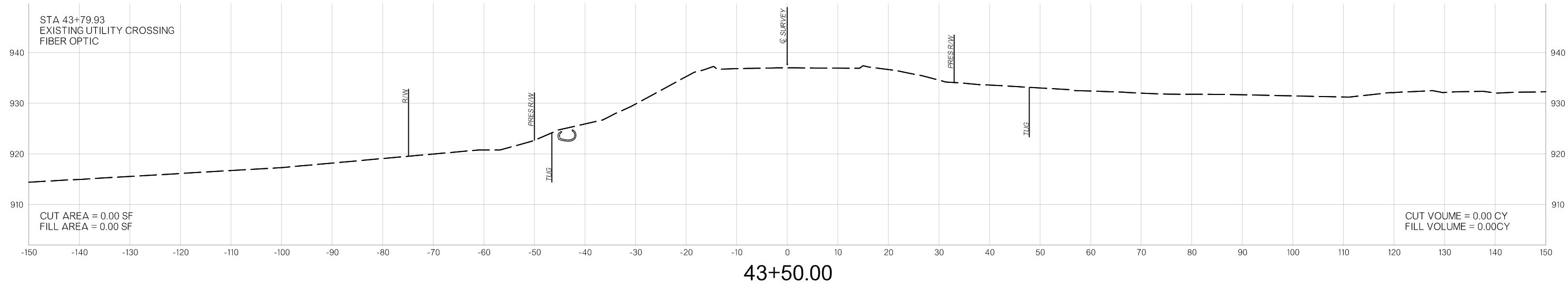


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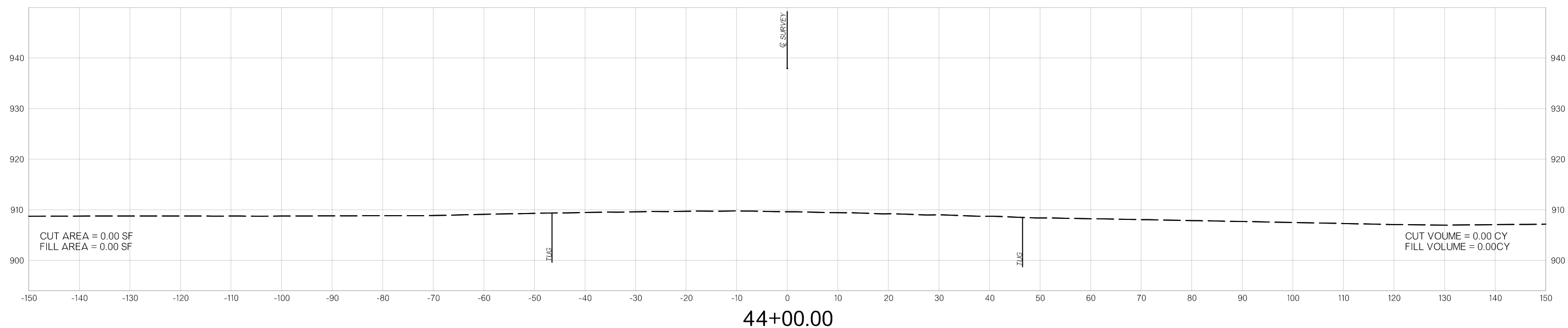
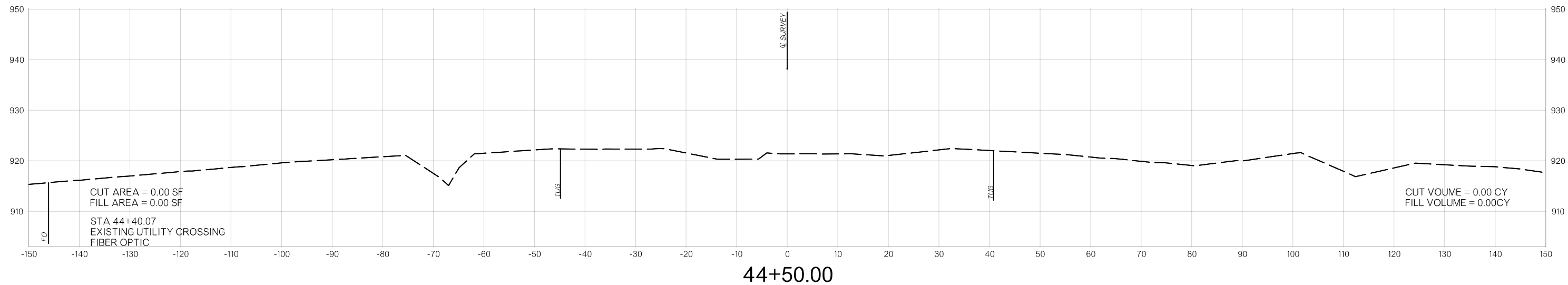
VOLUMES (CY)

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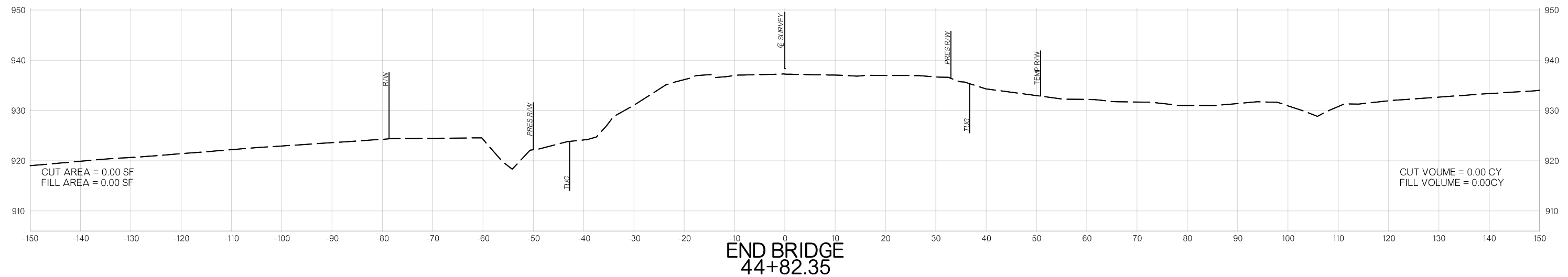
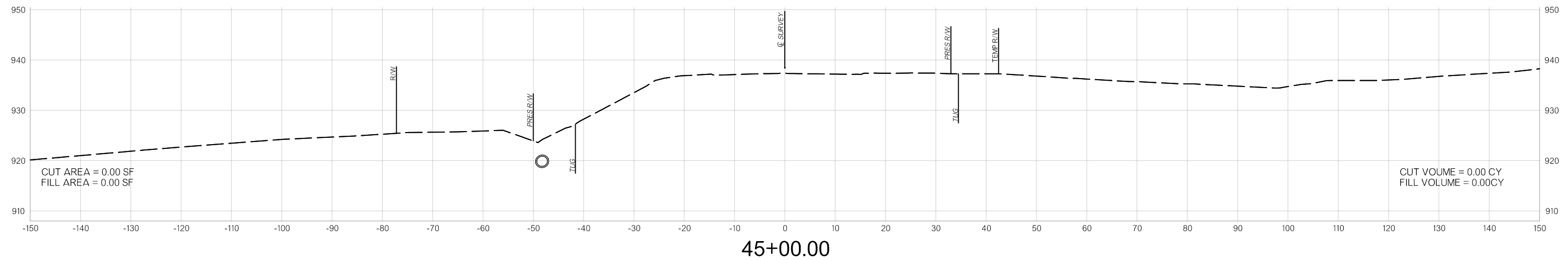
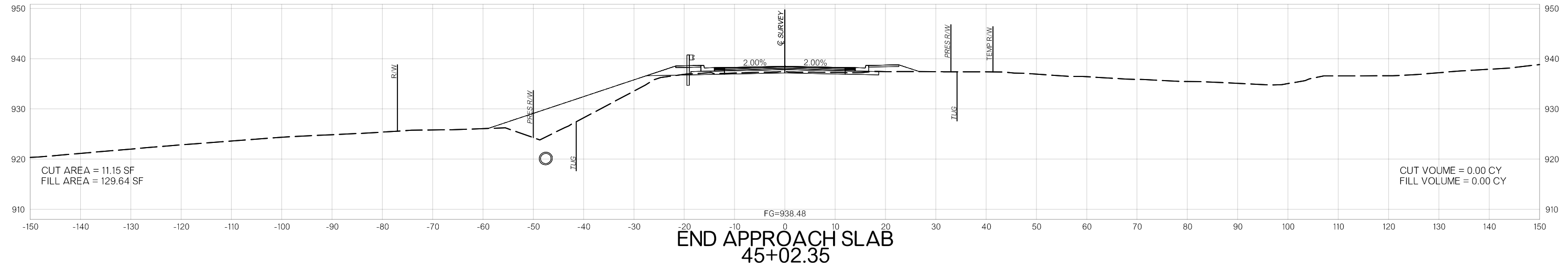
VOLUMES (CY)



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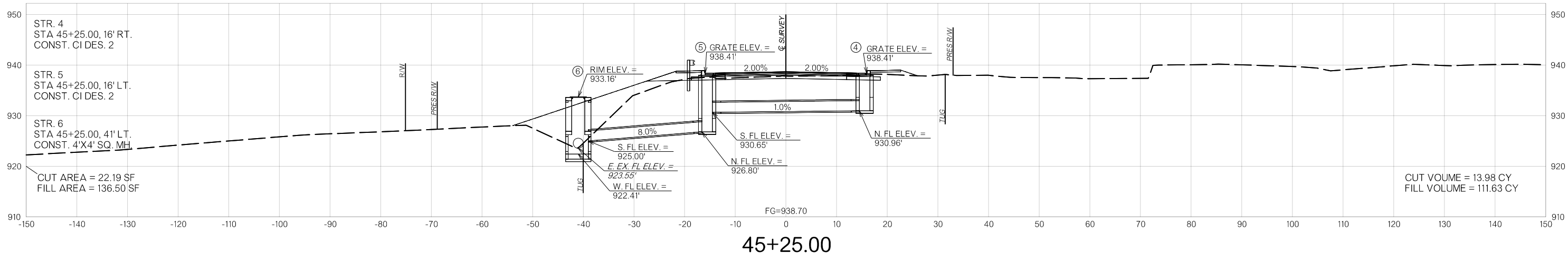
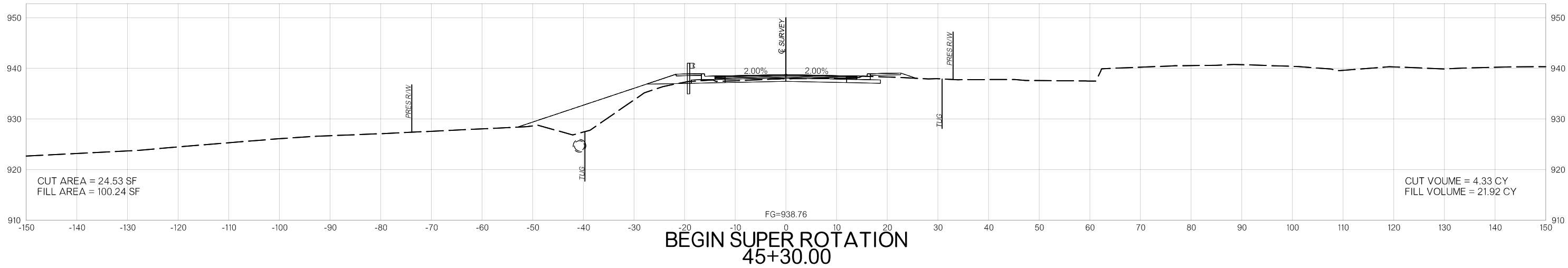
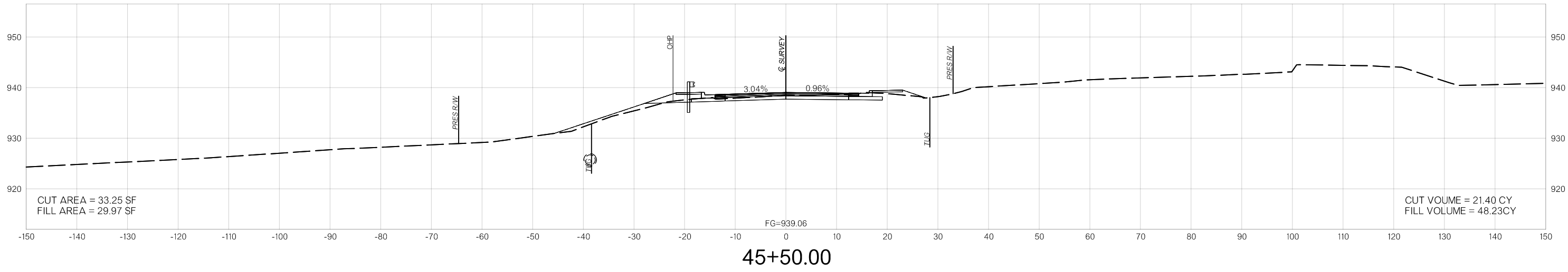
VOLUMES (CY)



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END AREAS (SF)

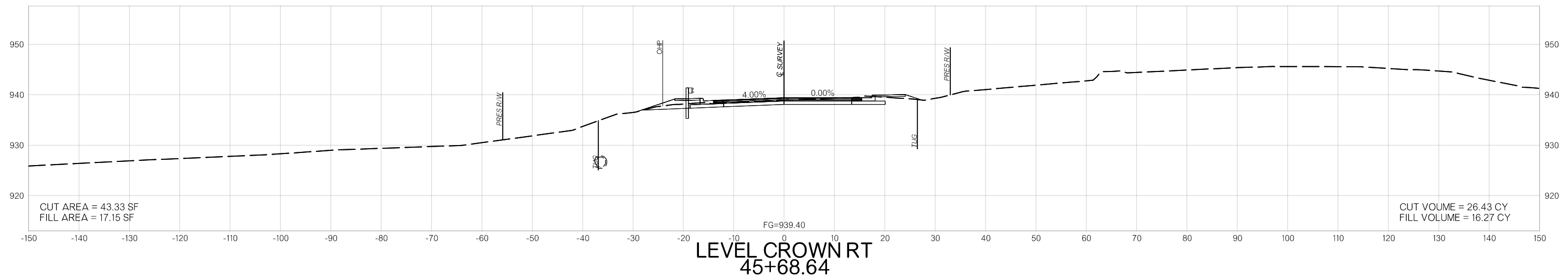
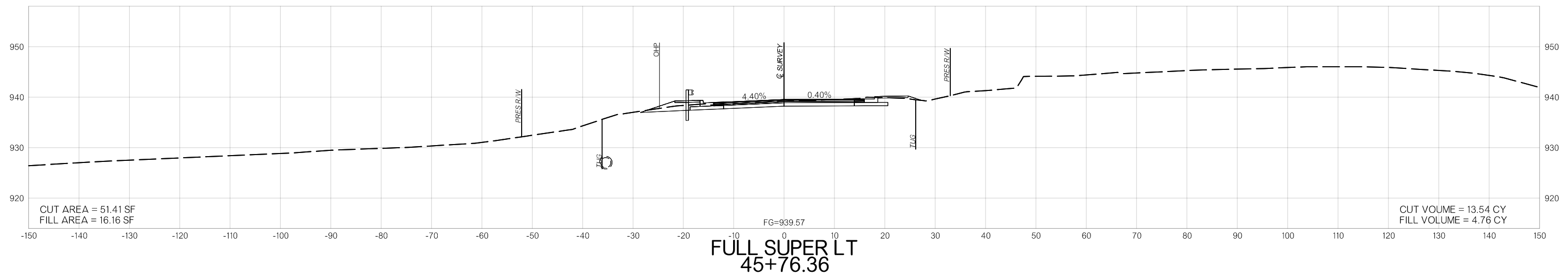
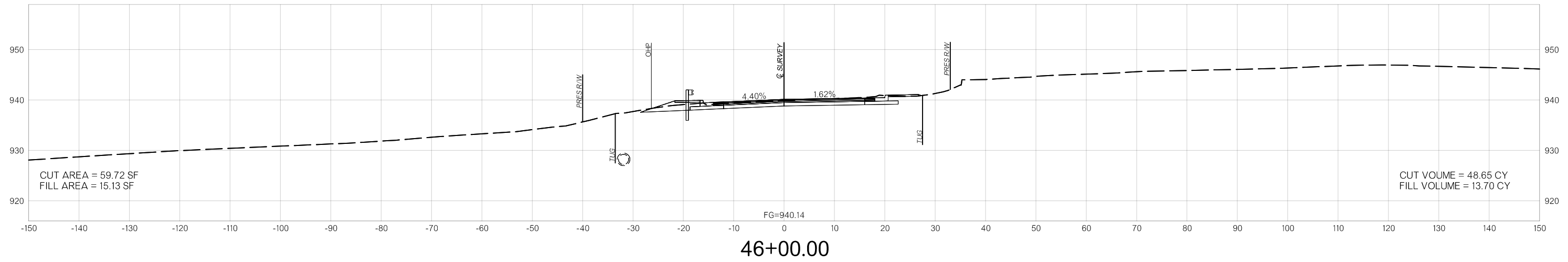
VOLUMES (CY)



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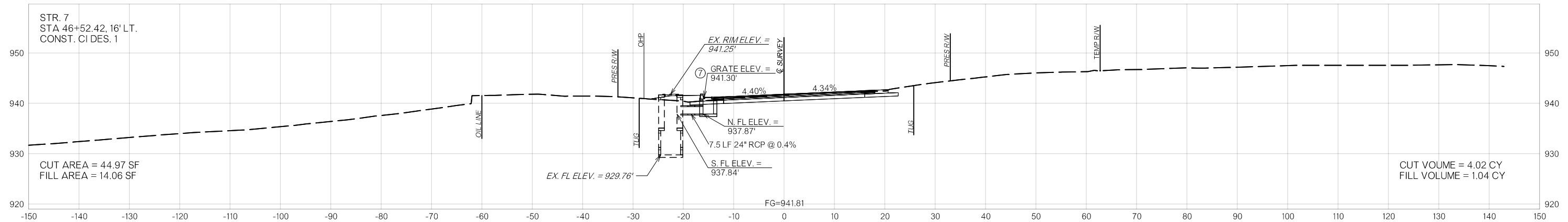
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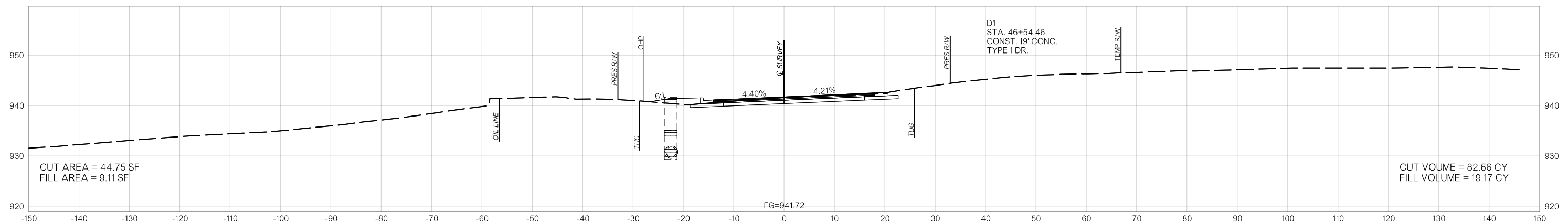
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END AREAS (SF)

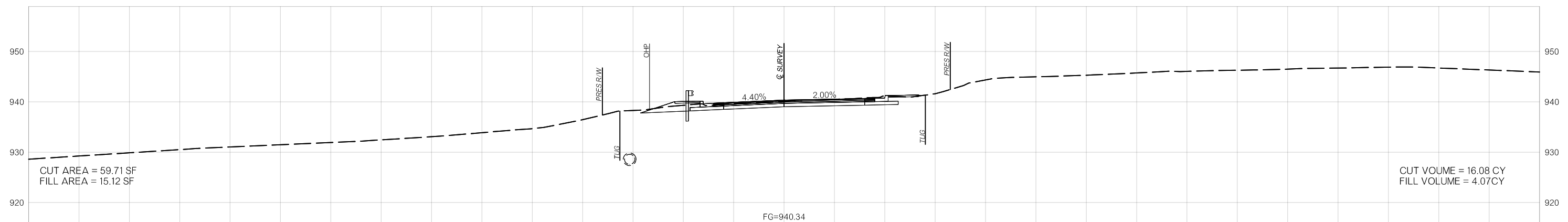
VOLUMES (CY)



46+52.42



46+50.00

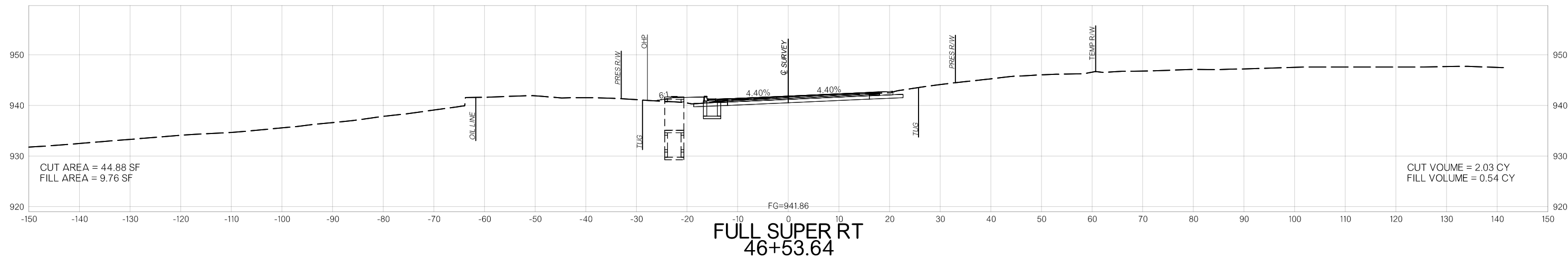
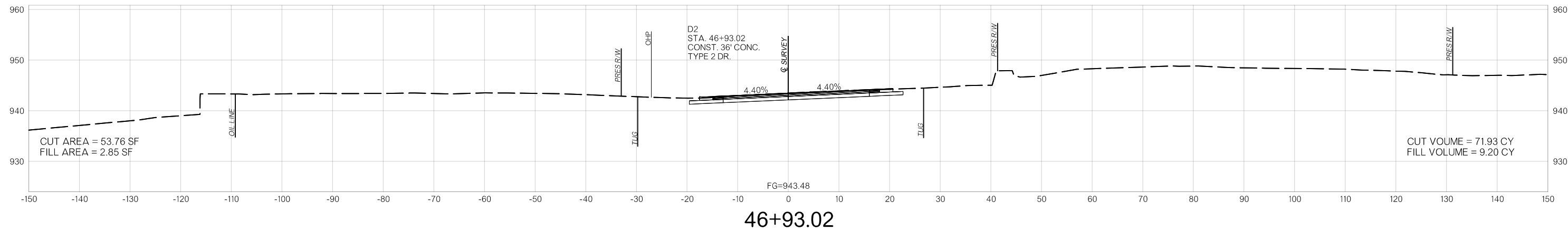
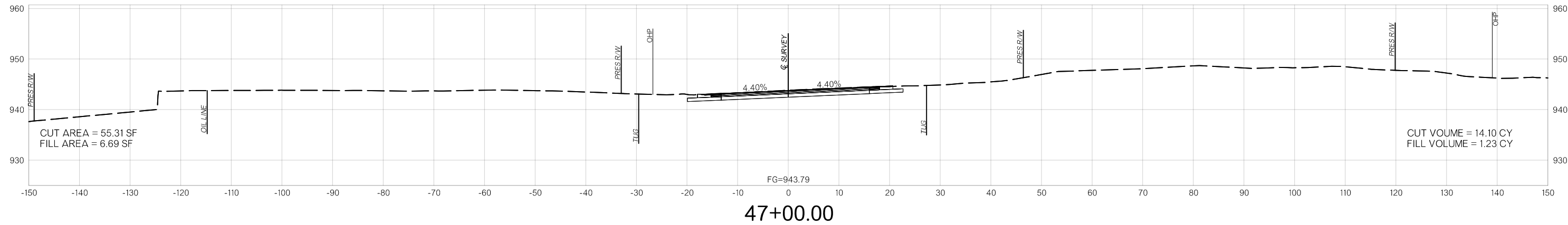


REVERSE CROWN RT
 46+07.27

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END AREAS (SF)

VOLUMES (CY)



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END AREAS (SF)

VOLUMES (CY)

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