

TRAFFIC DESIGN

PROJECT ENGINEER: T. MAAROUF, P.E.
SQUAD SUPERVISOR: R. SOLIZ

FOR SURVEY CONTROL DATA,
SEE SURVEY DATA SHEETS

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
STATE HIGHWAY
FEDERAL AID PROJECT NO. J3-1047(004)
WIDEN & RESURFACE
STATE HIGHWAY 48

FOR INDEX OF SHEETS
AND STANDARDS

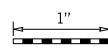
JOHNSTON & COAL COUNTY

CONTROL SECTION NO. 48-35-20, 48-15-16
STATE JOB NO. 31047(04)

ROADWAY DESIGN

ENGINEERING MANAGER: MOHAMED ELYAZGI, P.E.
ENGINEER: C. HENSON, P.E.
SQUAD SUPERVISOR: JAMES JONES
SQUAD MEMBERS: J. CUMMINGS, T. HERMAN, H. PHAM,
R. JOHNSON, R. WOMACK, K. HANEY, K. KILE, M. SMITHSON,
T. ABRAHAM, P.E.

DESIGN DATA	
ADT 2019	= 2,346
ADT 2039	= 3,366
DHV (2-WAY)	= 404
K (DHV/ADT)	= 12%
D	= 58%
T (% DHV)	= 22%
T (% ADT)	= 25%
T ³ (% ADT)	= 18%
V	= 65MPH
20 YR FLEXESALS	= 5.18M

SCALES 

PLAN 1" = 100'

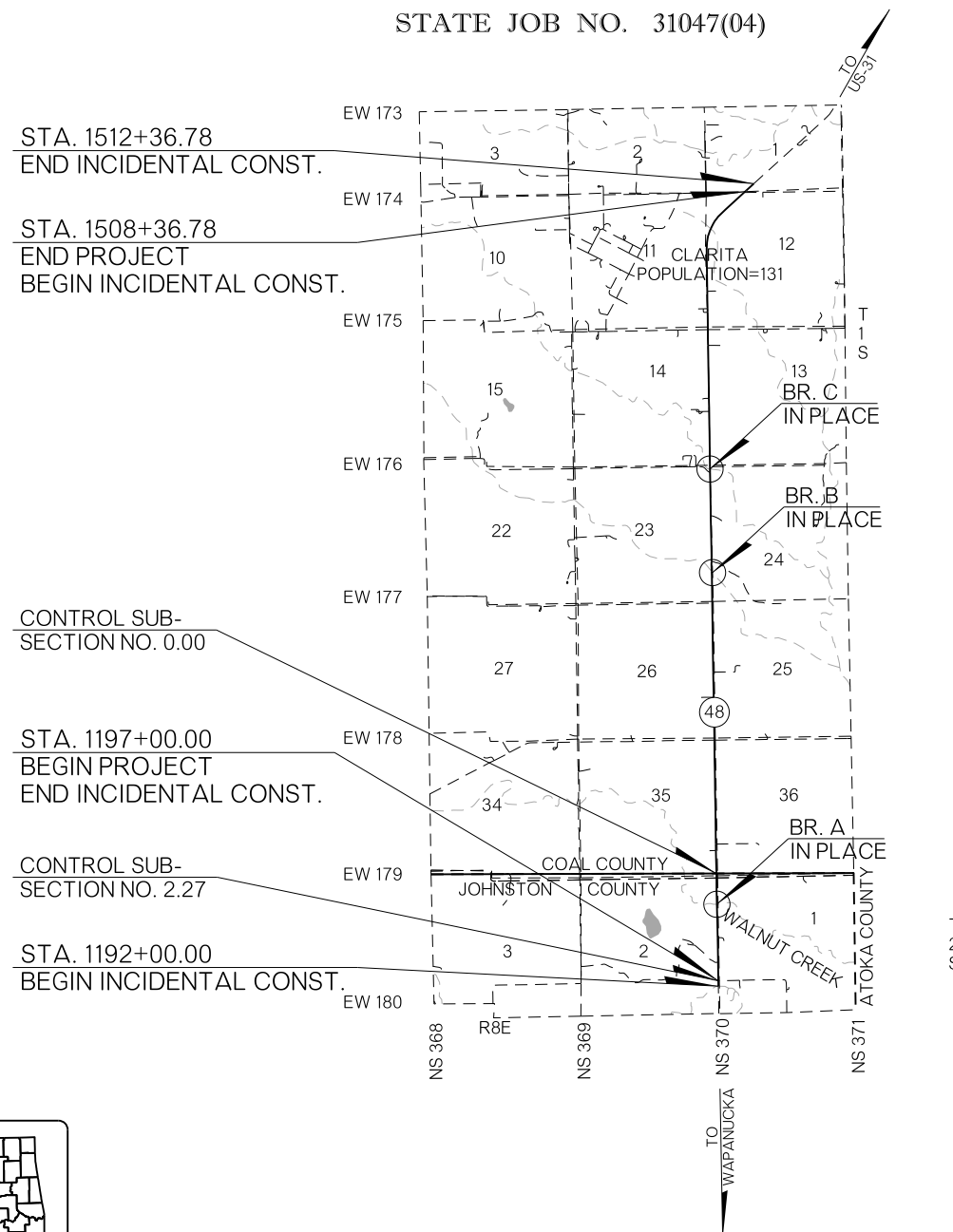
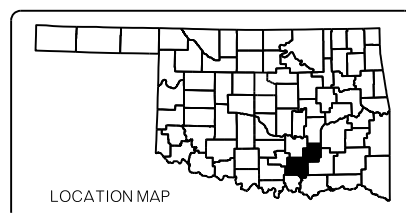
PROFILE HOR. 1" = 100'

VER. 1" = 10'

LAYOUT MAP 1" = 3,520'

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
- OILWELL
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- RIGHT-OF-WAY LINES - EXISTING
- RIGHT-OF-WAY LINES - NEW
- CONTROLLED ACCESS
- RIGHT-OF-WAY FENCE




NOTE: STATIONING BASED ON Q. OF SURVEY

ROADWAY LENGTH	30,599.18'	FT.	5.795	MI.
BRIDGE LENGTH	0.00	FT.	0.000	MI.
PROJECT LENGTH	5.795			MI.

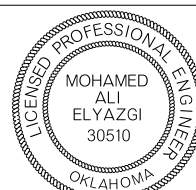
EXCEPTIONS: BRIDGE "C" STA. 1389+62.40 TO STA. 1395+00.00, TOTAL EXCEPTION = 537.60'

2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.



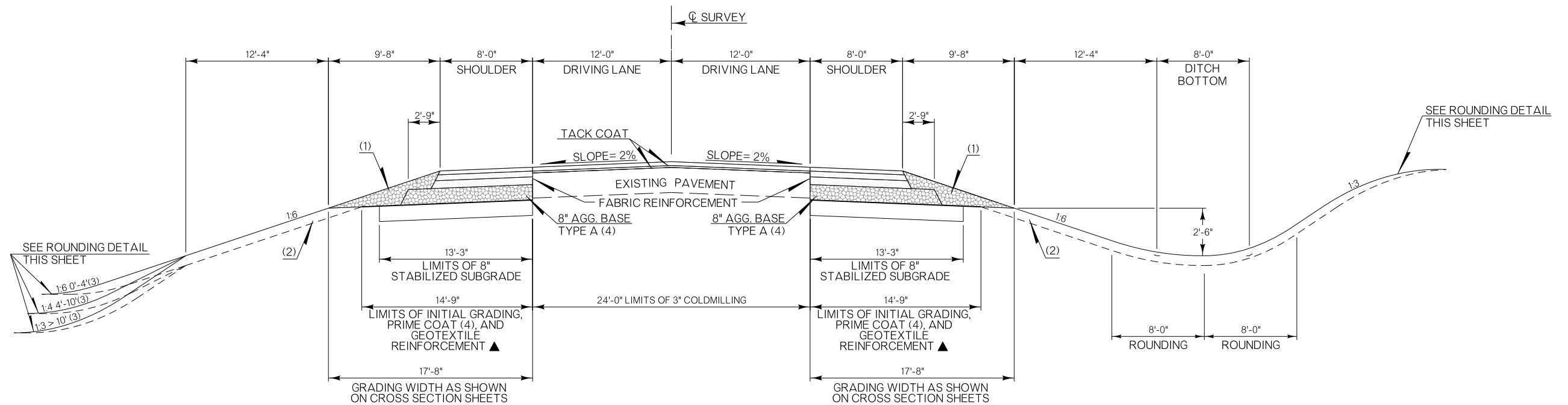
PREPARED BY:
OKLAHOMA DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION
MOHAMED ELYAZGI, P.E.
OKLA. LIC. NO. 30510

DATE _____



OKLAHOMA DEPARTMENT OF TRANSPORTATION DATE APPROVED _____ BY _____ CHIEF ENGINEER	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION DATE APPROVED _____ BY _____ DIVISION ADMINISTRATOR
SWO 5159(1) COUNTY JOHNSTON	PROJECT NO. J3-1047(004) HIGHWAY SH-48 SHEET NO. 001

P.E. NO. : 31047(01)



TYPICAL NO. 1

STA. 1197+00.00 TO STA. 1389+62.40

STA. 1395+00.00 TO STA. 1508+36.78

PAVEMENT REQUIREMENT		
9" PAVT. STRUCTURE	12'-0" DRIVING LANES	8'-0" PAVED SHOULDERS
SURFACE COURSE	2" SUPERPAVE TYPE S4 (PG 70-28 OK)	2" SUPERPAVE TYPE S4 (PG 70-28 OK)
BASE COURSE	1" SUPERPAVE TYPE S5 (PG 70-28 OK)	3" SUPERPAVE TYPE S3 (PG 70-28 OK)
		4" SUPERPAVE TYPE S3 (PG 64-22 OK)
		8" AGGREGATE BASE TYPE A

▲ USE RS380i OR APPROVED EQUAL

(1) BACKFILL NOTE:
TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN TBSC TYPE E.

(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.

(3) DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE SHOULDER.

(4) PRIME COAT ON TOP OF AGGREGATE BASE.

ROUNDING DETAIL

● INTERSECTION OF CUT AND/OR FILL SLOPES WITH GROUND LINE TO BE ROUNDED AS PART OF FINISHING OPERATIONS. ROUNDED SHALL BE 5' MINIMUM FOR SMALLER CUTS AND FILLS TO 15' MAXIMUM FOR LARGER CUTS AND FILLS OR AS DESIGNATED BY THE ENGINEER. COST OF ROUNDED TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.



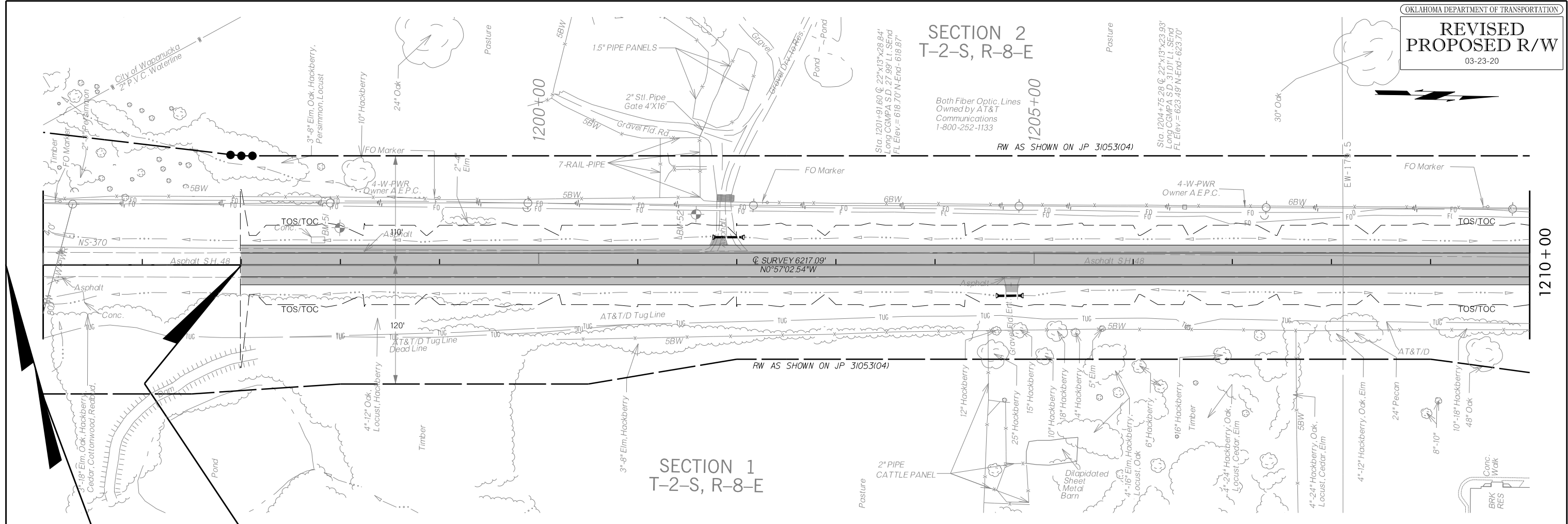
DESIGN			OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION				
DRAWN	KRH	KRH	TYPICAL SECTION				
CHECKED							
APPROVED							
SQUAD	JONES						
COUNTY	JOHNSTON/COAL	HIGHWAY	SH-48	STATE JOB NO.	31047(04)	SHEET NO.	002

SECTION 2
T-2-S, R-8-E

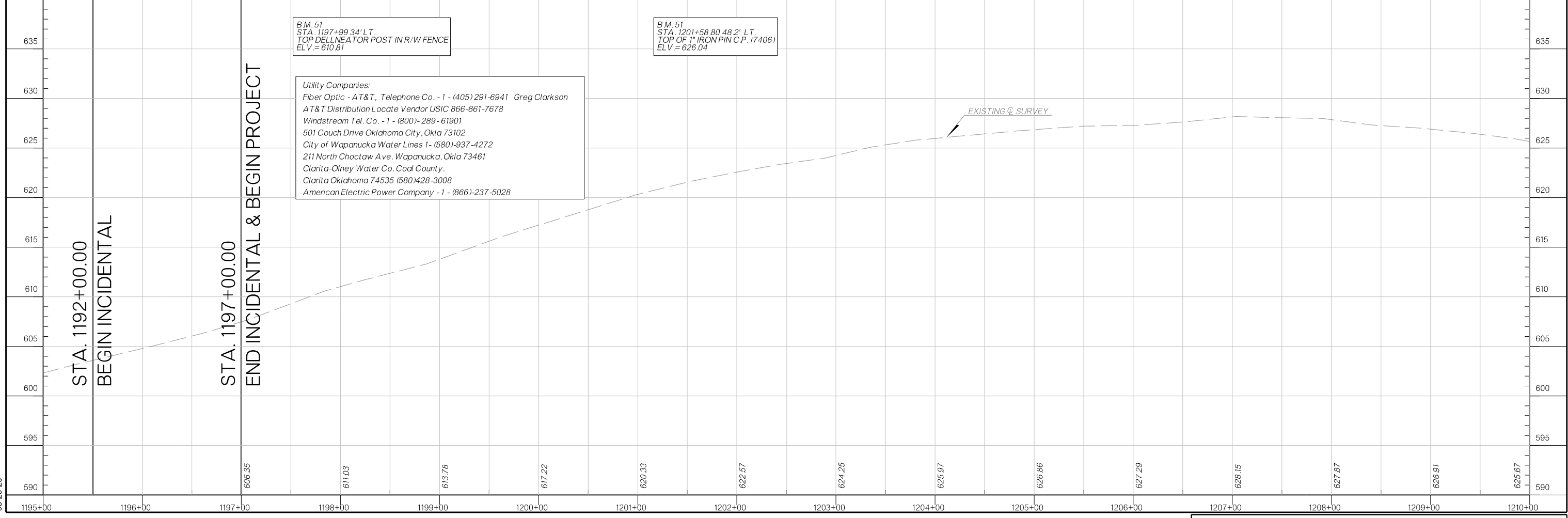
Both Fiber Optic Lines
Owned by AT&T
Communications
1-800-252-1133

Sta. 1201+91.60 C. 22°13'28.84"
Long COMPASS S.D. 27.9911 L. SE End
FL Elev.= 618.70' N End - 618.87'

Sta. 1204+75.26 C. 22°13'23.93"
Long COMPASS S.D. 31.0171 L. SE End
FL Elev.= 623.49' N End - 623.70'



SECTION 1
T-2-S, R-8-E



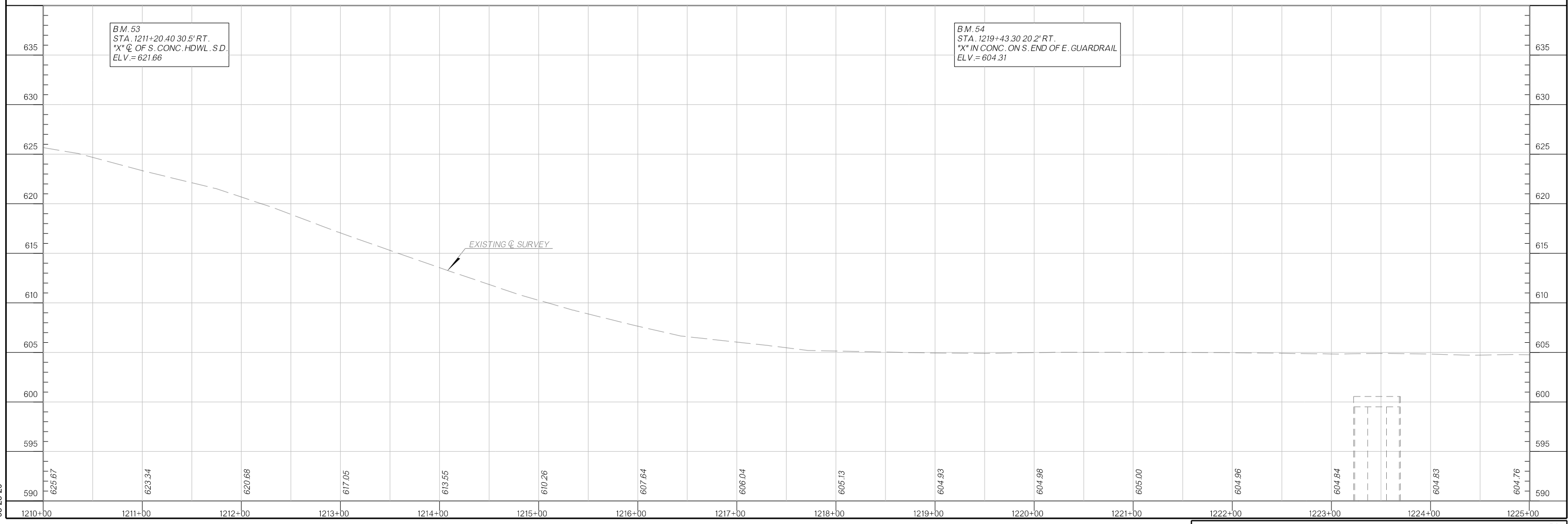
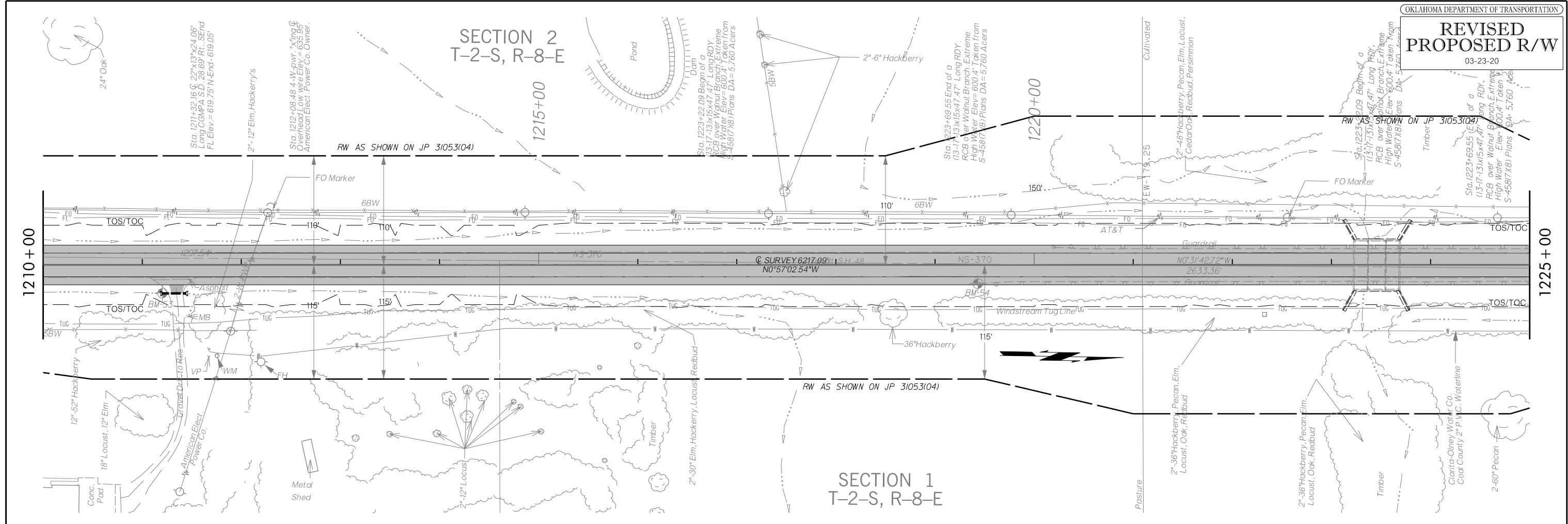
B.M. 51
STA. 1197+99.34' LT.
TOP DELLNEATOR POST IN R/W FENCE
ELV. = 610.81

B.M. 51
STA. 1201+58.80' LT.
TOP OF 1" IRON PIN C.P. (7406)
ELV. = 626.04

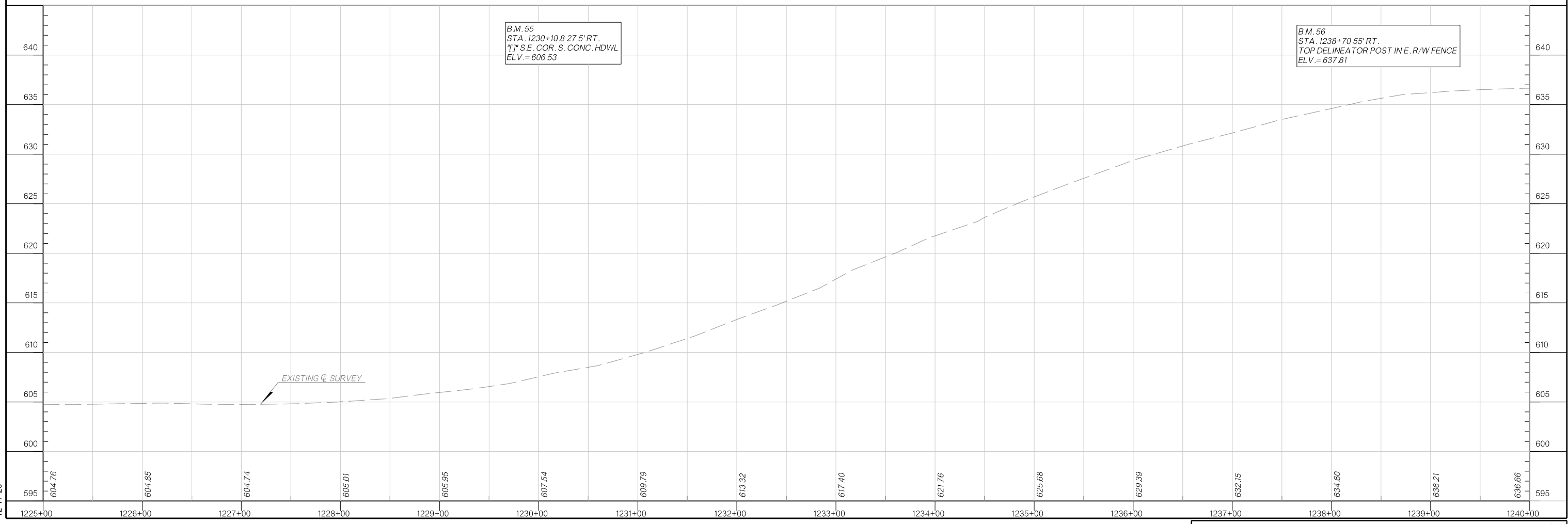
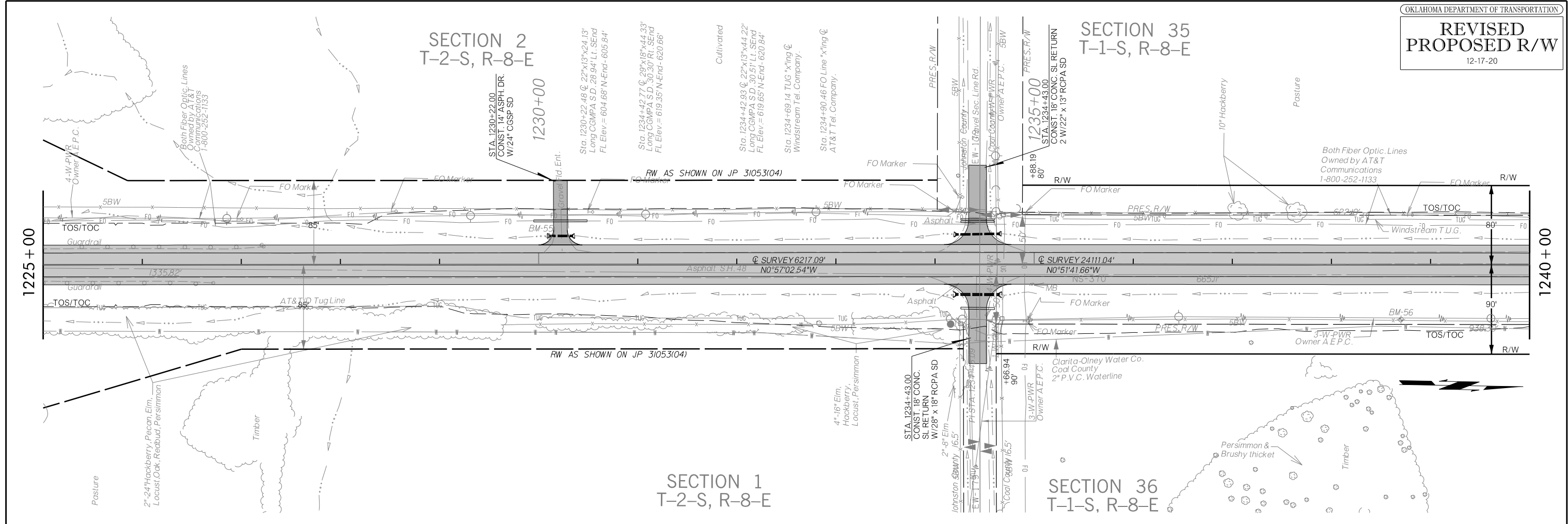
Utility Companies:
Fiber Optic - AT&T, Telephone Co. - 1 - (405) 291-6941 Greg Clarkson
AT&T Distribution Locate Vendor USIC 866-861-7678
Windstream Tel. Co. - 1 - (800)-289-61901
501 Couch Drive Oklahoma City, Okla 73102
City of Wapanucka Water Lines 1 - (580)-937-4272
211 North Choctaw Ave. Wapanucka, Okla 73461
Clarita-Olney Water Co. Coal County,
Clarita Oklahoma 74535 (580) 428-3008
American Electric Power Company - 1 - (866)-237-5028

STA. 1192+00.00
BEGIN INCIDENTAL

STA. 1197+00.00
END INCIDENTAL & BEGIN PROJECT



03-23-20



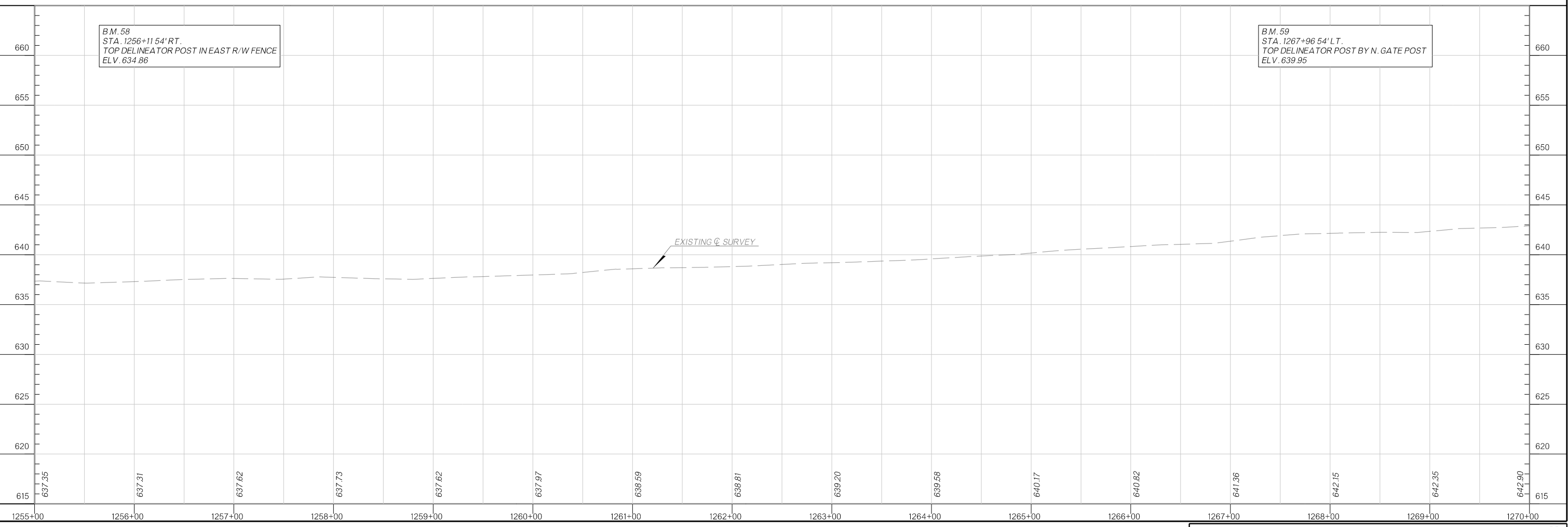
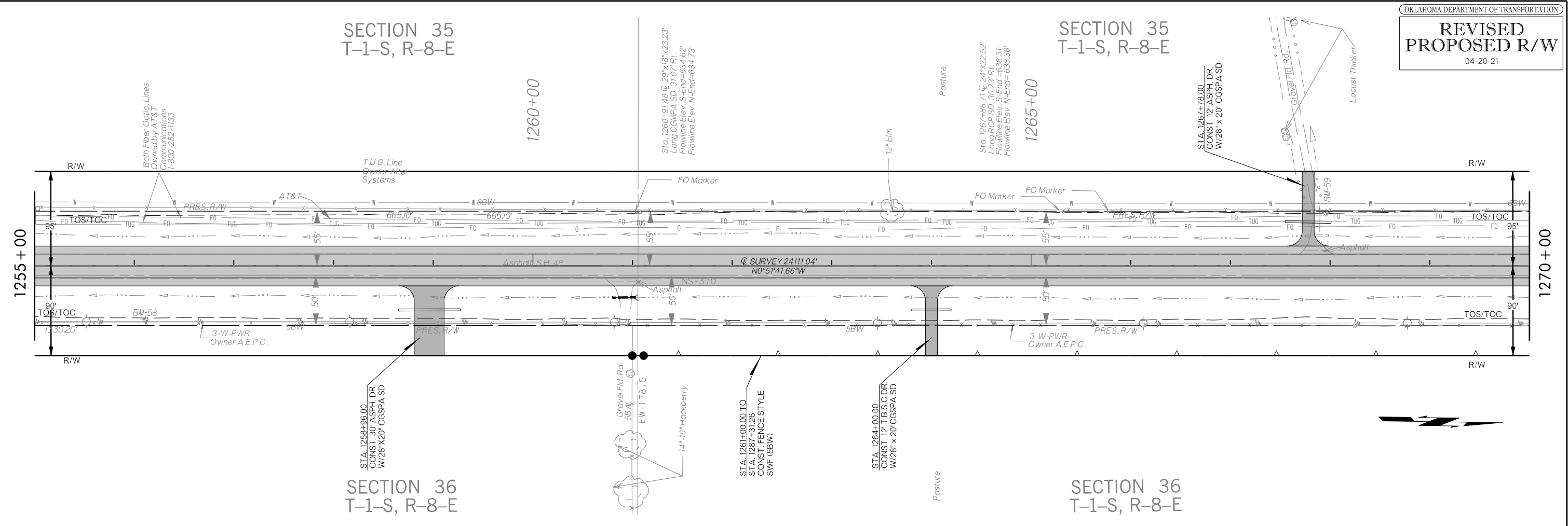
12-17-20

SECTION 35
 T-1-S, R-8-E

SECTION 35
 T-1-S, R-8-E

SECTION 36
 T-1-S, R-8-E

SECTION 36
 T-1-S, R-8-E



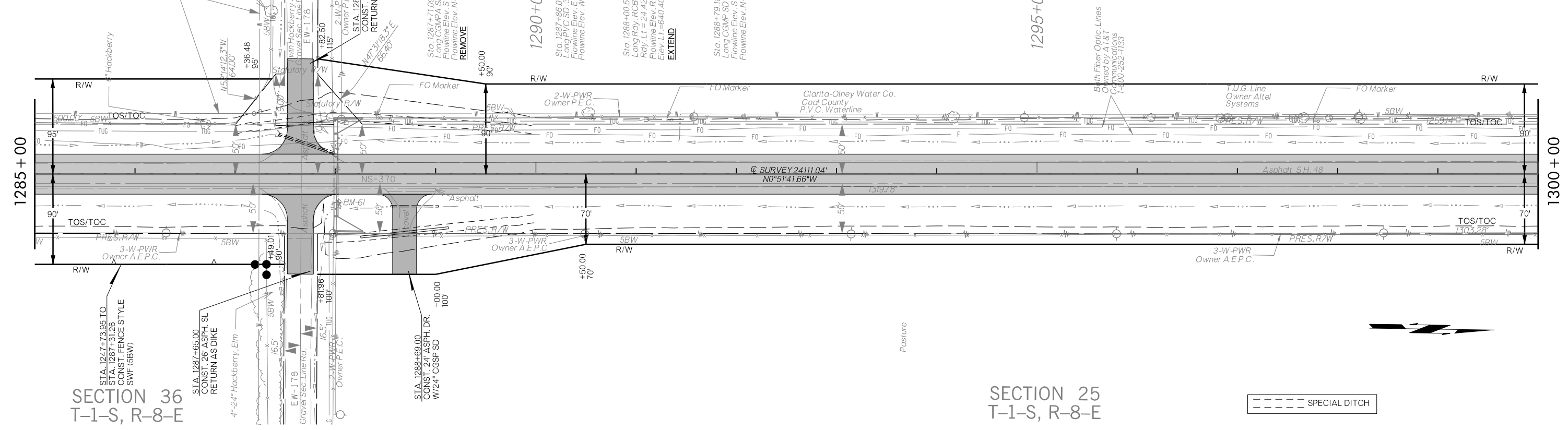
04-20-21

SECTION 35
 T-1-S, R-8-E

SECTION 26
 T-1-S, R-8-E

Clarita-Olney Water Co.
 Coal County
 2" P.V.C. Waterline

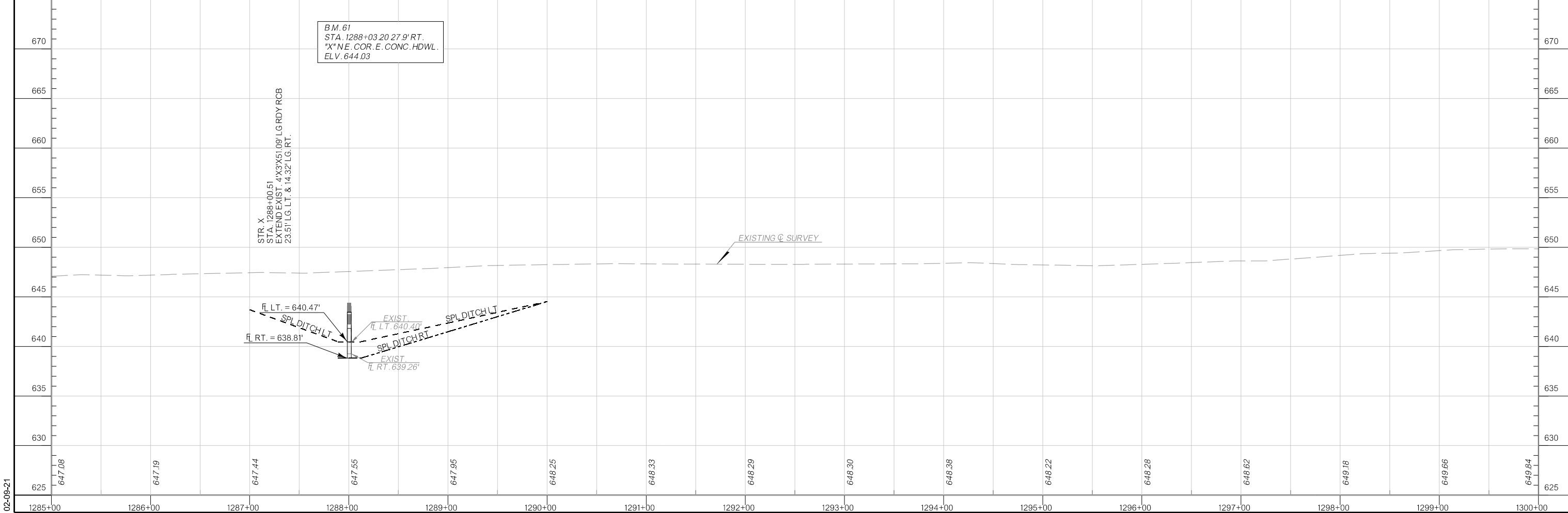
Cultivated



SECTION 36
 T-1-S, R-8-E

SECTION 25
 T-1-S, R-8-E

--- SPECIAL DITCH



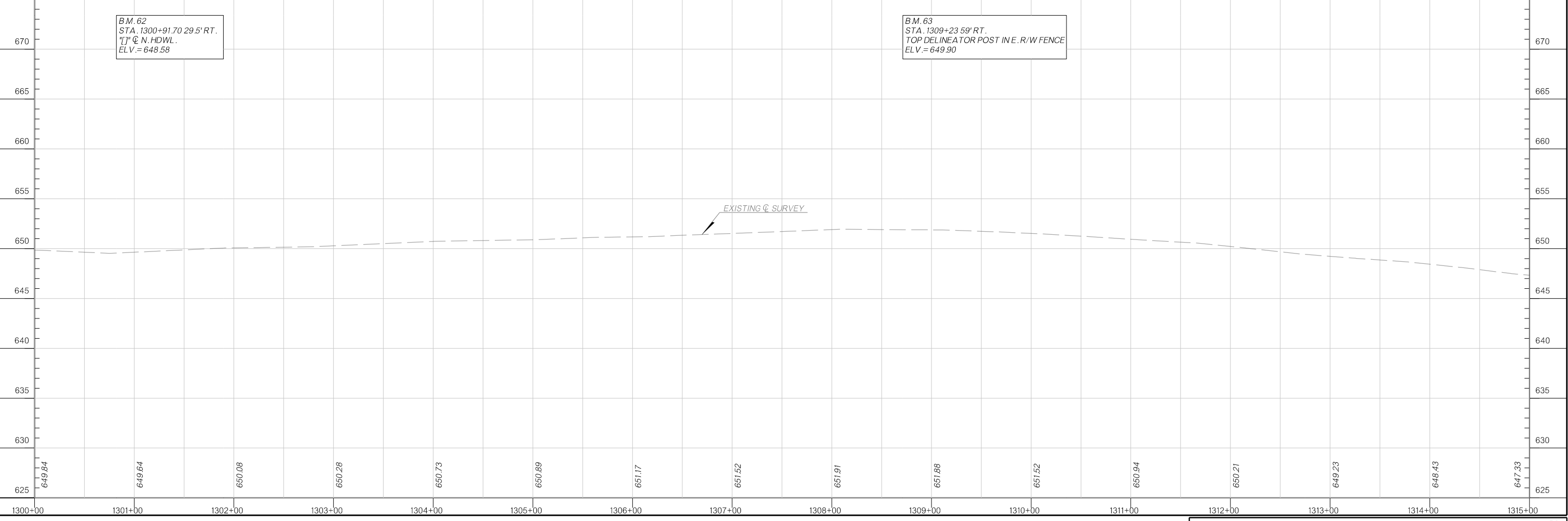
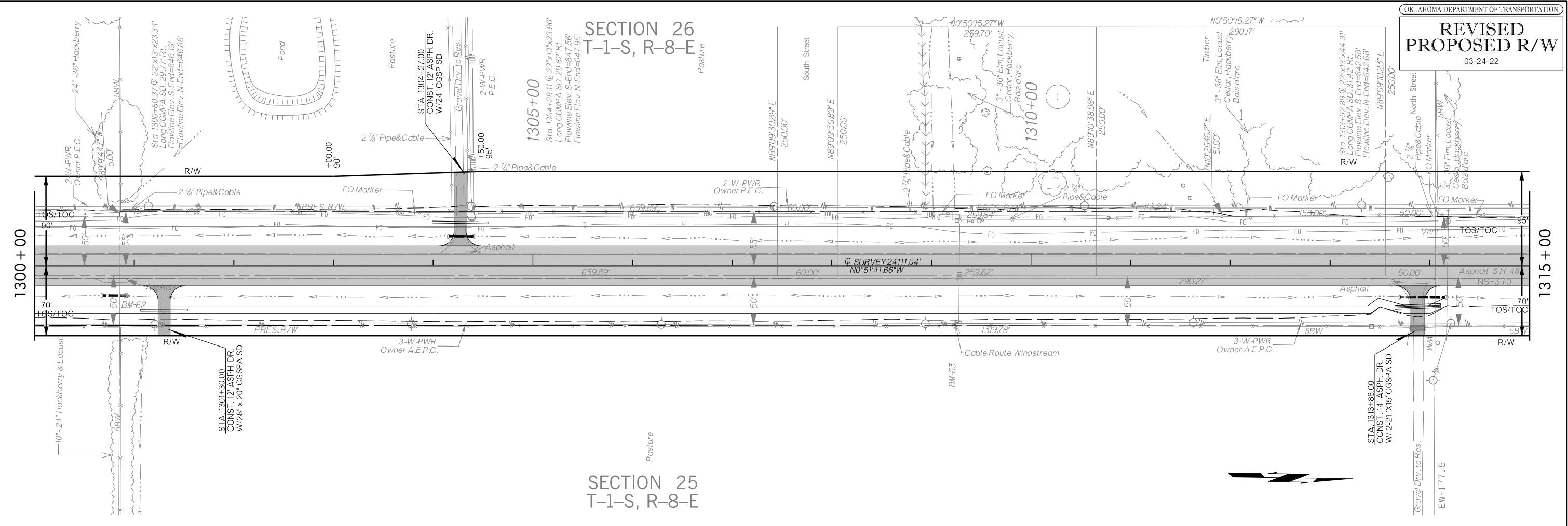
B.M. 61
 STA. 1288+03.20 27.9' RT.
 X NE COR. E. CONC. HDWL.
 ELV. 644.03

EXIST SPL DITCH LT
 FL LT. = 640.47'
 FL RT. = 638.81'
 EXIST SPL DITCH RT
 FL LT. 640.40'
 FL RT. 639.26'

STR. X
 STA. 1288+00.51
 EXTEND EXIST. 4"X3X51.09' LG RDY ROB
 23.51' LG. LT. & 14.32' LG. RT.

SECTION 26
 T-1-S, R-8-E

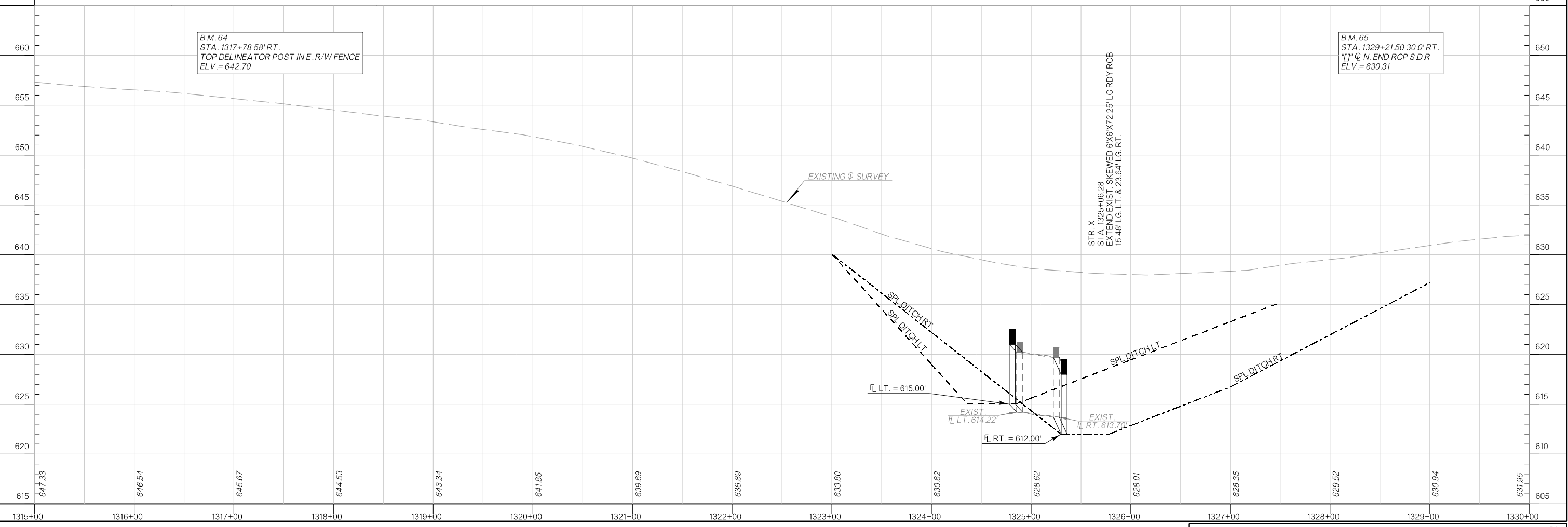
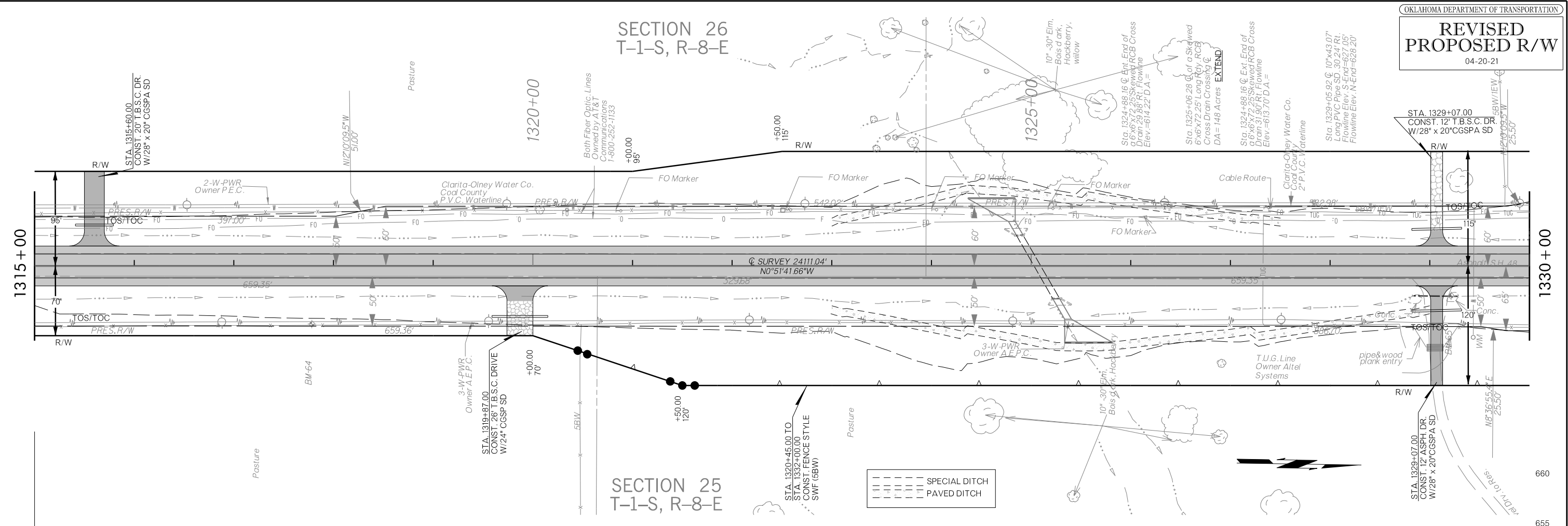
SECTION 25
 T-1-S, R-8-E



03-24-22

SECTION 26
 T-1-S, R-8-E

SECTION 25
 T-1-S, R-8-E



B.M. 64
 STA. 1317+78.58' RT.
 TOP DELINEATOR POST IN E. R/W FENCE
 ELV. = 642.70

B.M. 65
 STA. 1329+21.50.30.0' RT.
 "J" @ N. END RCP S.D.R.
 ELV. = 630.31

STR. X
 STA. 1325+06.28
 EXTEND EXIST. SKEWED 6'X6'X72.25' LG RDY RCB
 15.48' LG. LT. & 23.64' LG. RT.

fi LT. = 615.00'
 EXIST. fi LT. 614.22'
 fi RT. = 612.00'
 EXIST. fi RT. 613.70'

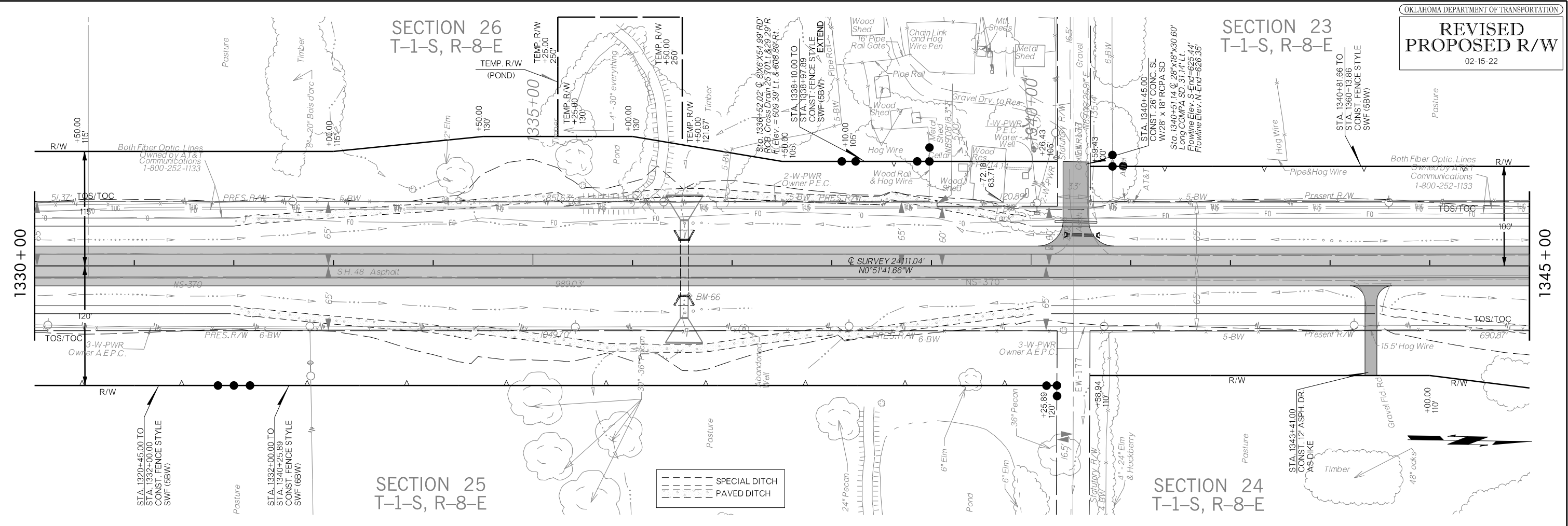
04-20-21

SECTION 26
 T-1-S, R-8-E

SECTION 23
 T-1-S, R-8-E

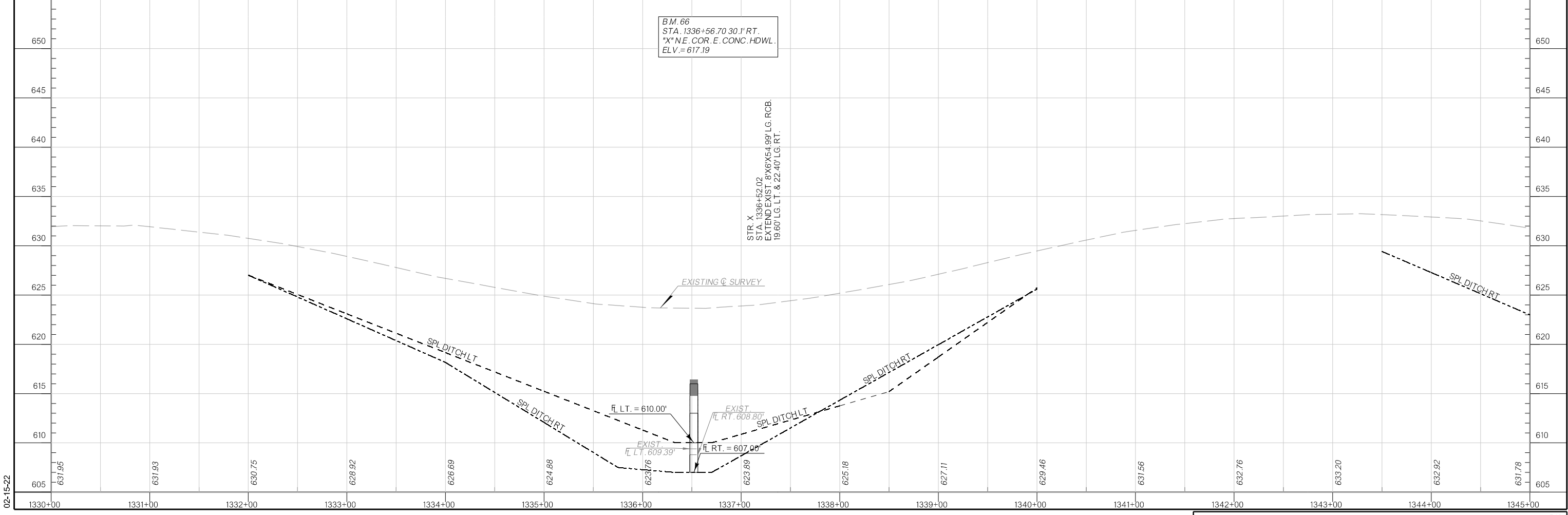
SECTION 25
 T-1-S, R-8-E

SECTION 24
 T-1-S, R-8-E



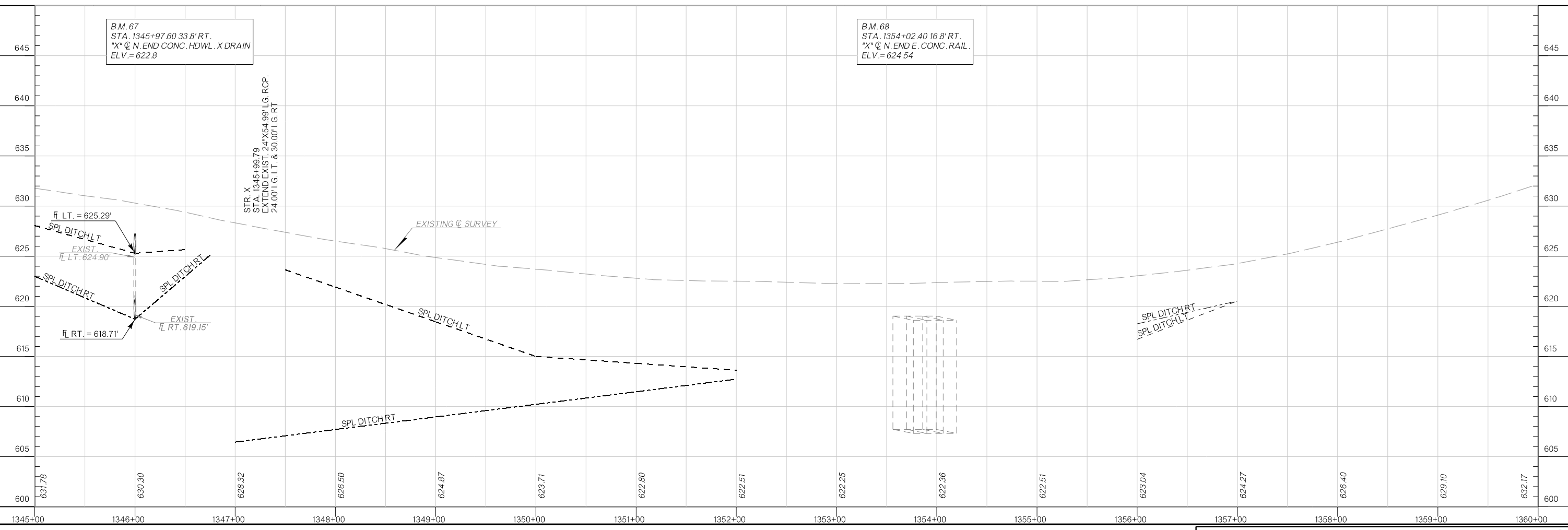
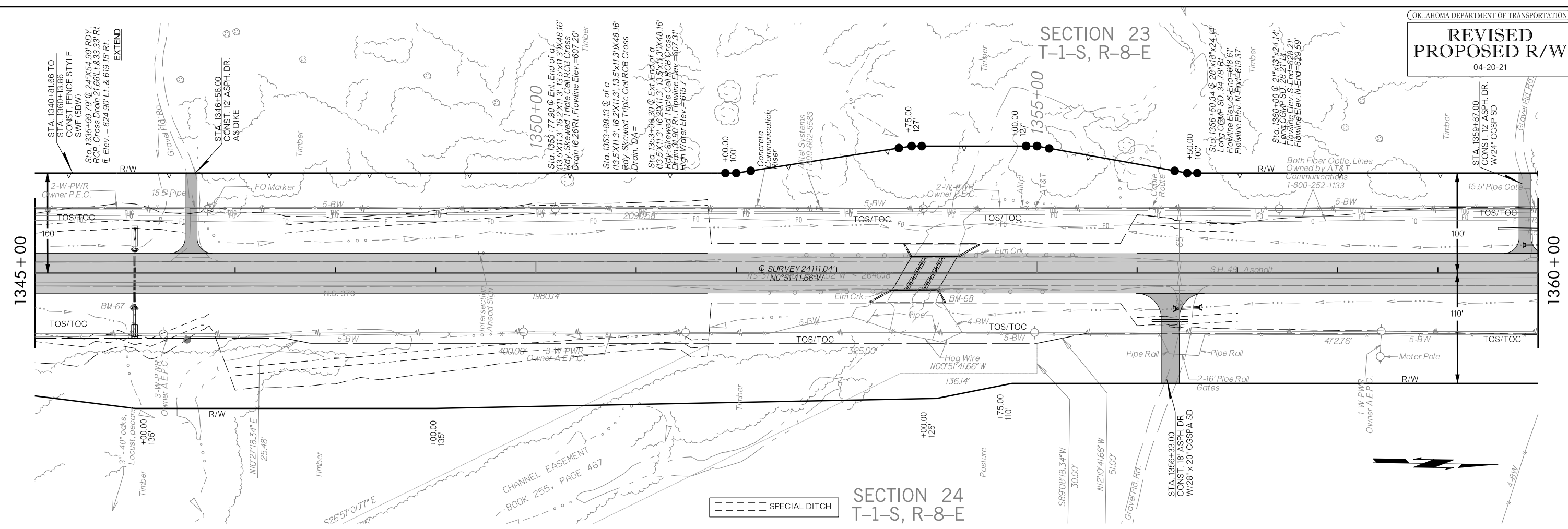
BM. 66
 STA. 1336+56.70 30.1' RT.
 X N.E. COR. E. CONC. HDWL.
 ELV. = 617.19

STR. X
 STA. 1336+52.02
 EXTEND EXIST. 8"X6"X54.99' LG. RCB.
 19.60' LG. LT. & 22.40' LG. RT.



SECTION 23
T-1-S, R-8-E

SECTION 24
T-1-S, R-8-E



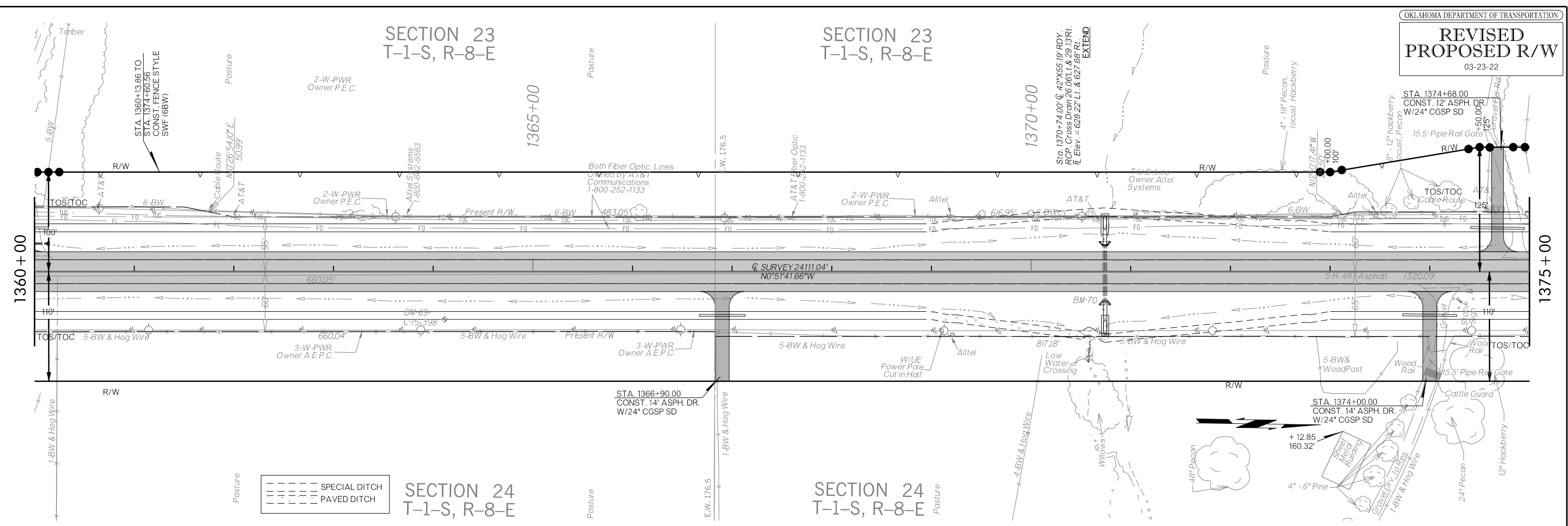
04-20-21

SECTION 23
T-1-S, R-8-E

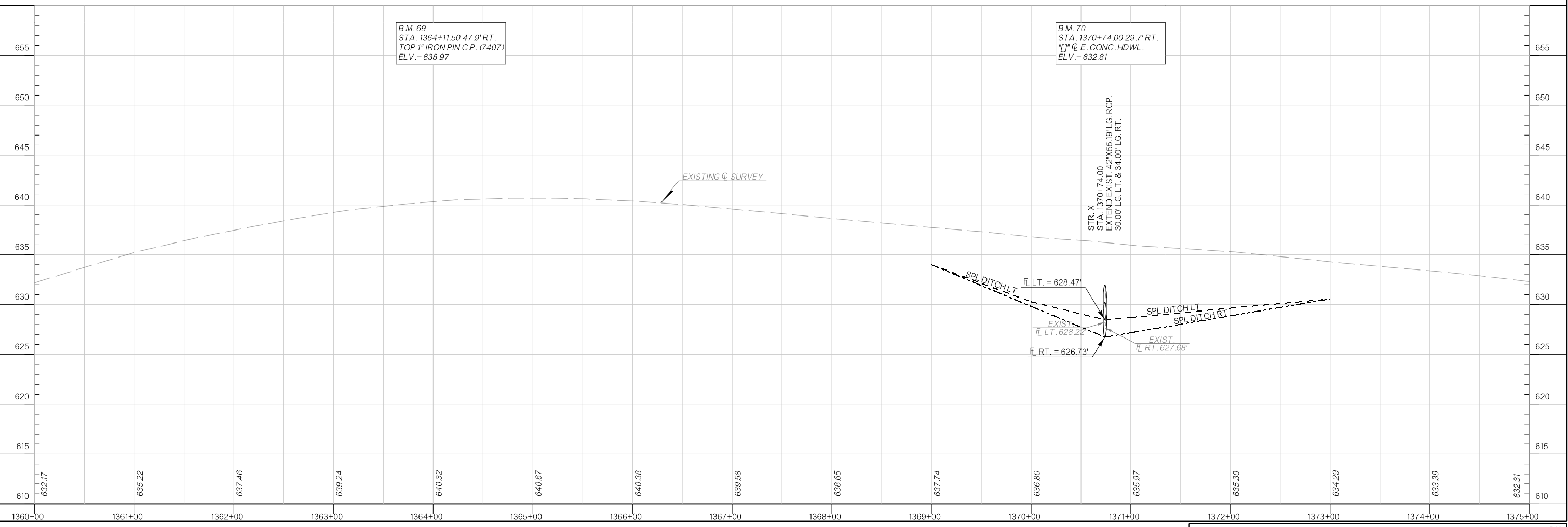
SECTION 23
T-1-S, R-8-E

SECTION 24
T-1-S, R-8-E

SECTION 24
T-1-S, R-8-E



- - - - - SPECIAL DITCH
 - - - - - PAVED DITCH



B.M. 69
 STA. 1364+11.50 47.9' RT.
 TOP 1" IRON PIN C.P. (7407)
 ELV. = 638.97

B.M. 70
 STA. 1370+74.00 29.7' RT.
 1" E. CONC. HDWL.
 ELV. = 632.81

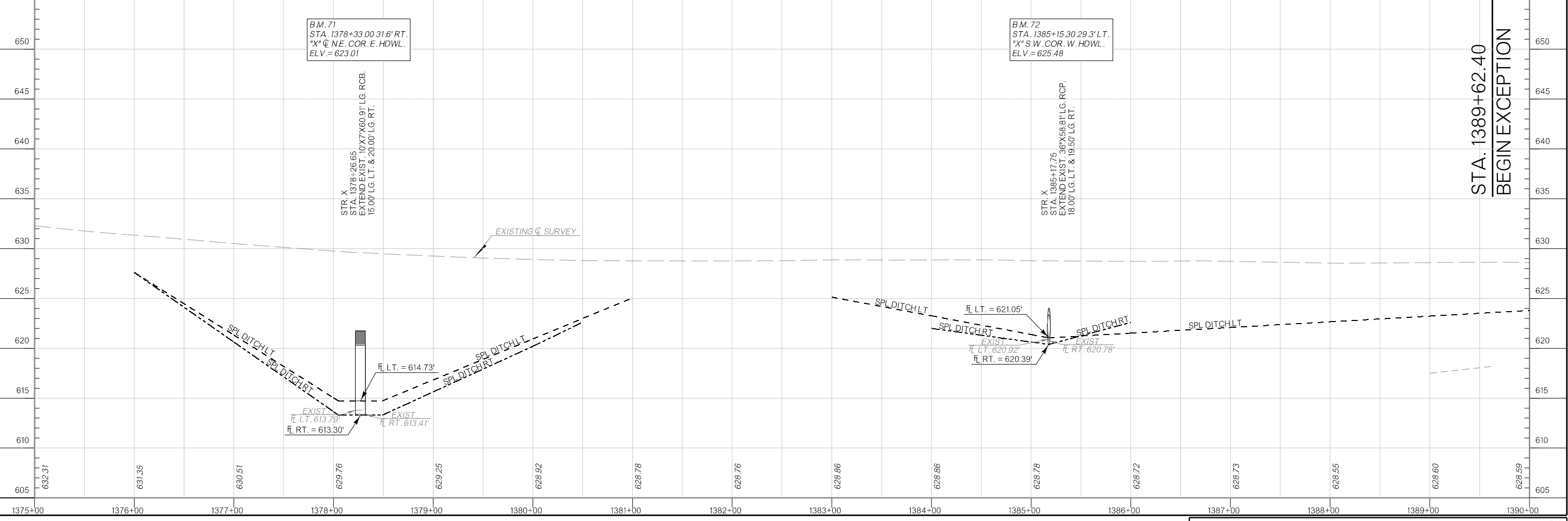
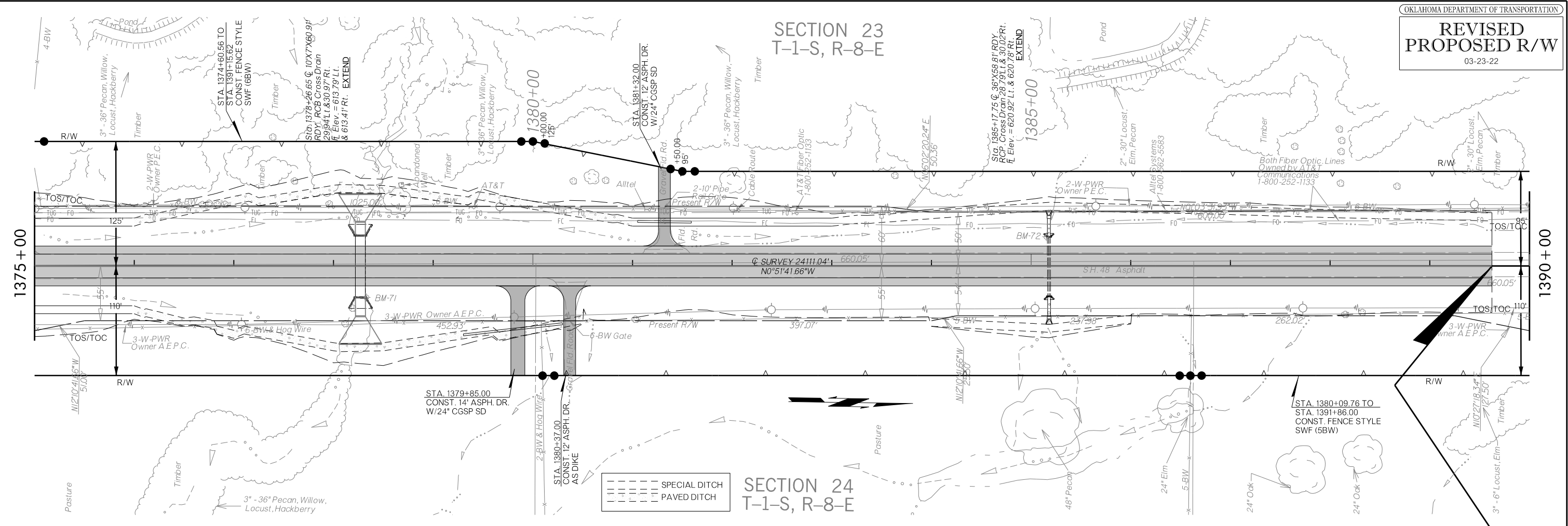
STR. X
 STA. 1370+74.00
 EXTEND EXIST. 42'X55.19' LG RCP.
 30.00' LG. LT. & 34.00' LG. RT.

SPL DITCH LT
 FL LT. = 628.47'
 EXIST.
 FL LT. 628.22'
 FL RT. = 626.73'

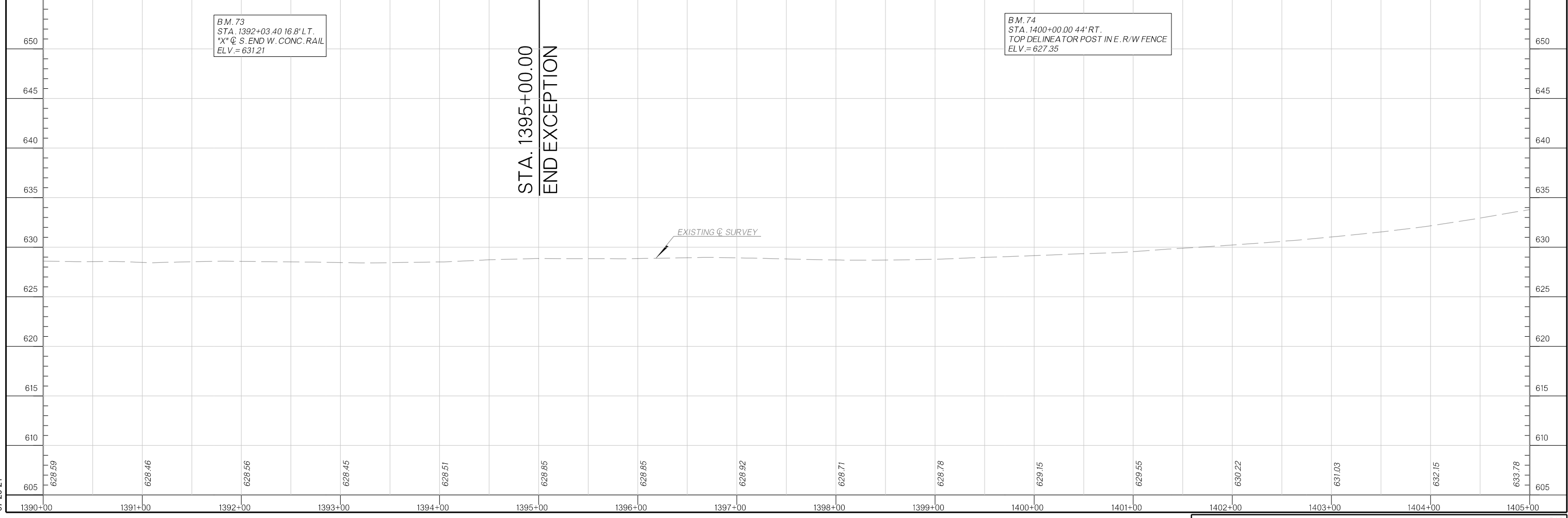
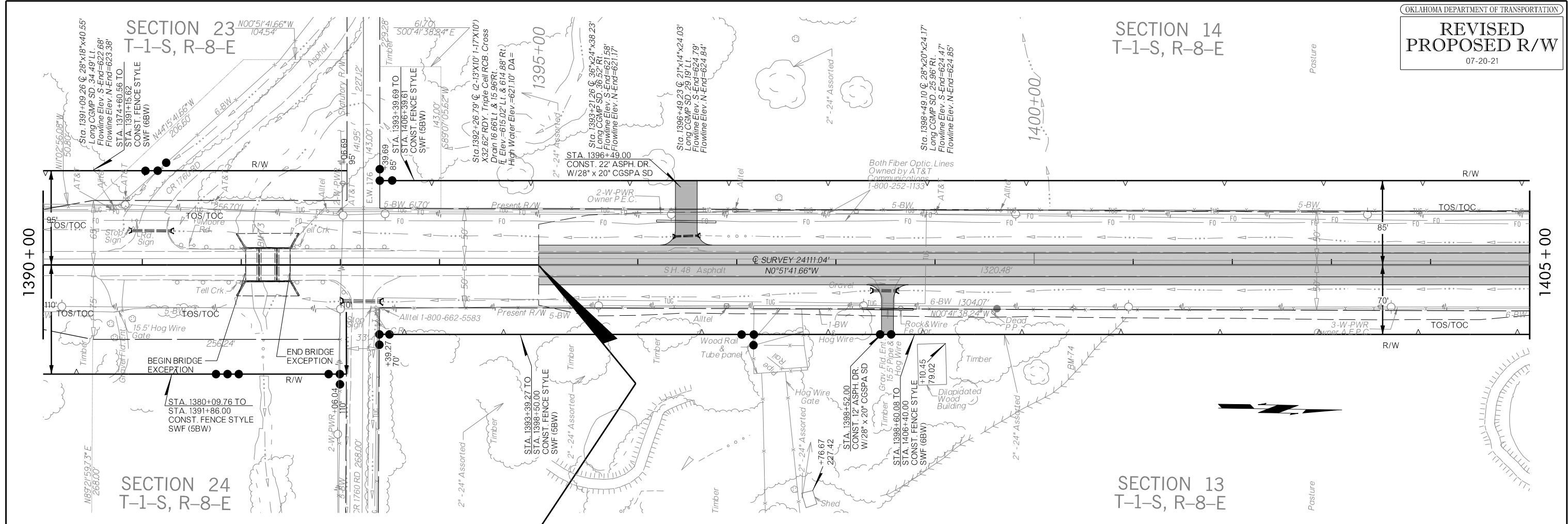
SPL DITCH RT
 SPL DITCH RT
 EXIST.
 FL RT. 627.68'

SECTION 23
 T-1-S, R-8-E

SECTION 24
 T-1-S, R-8-E



STA. 1389+62.40
 BEGIN EXCEPTION

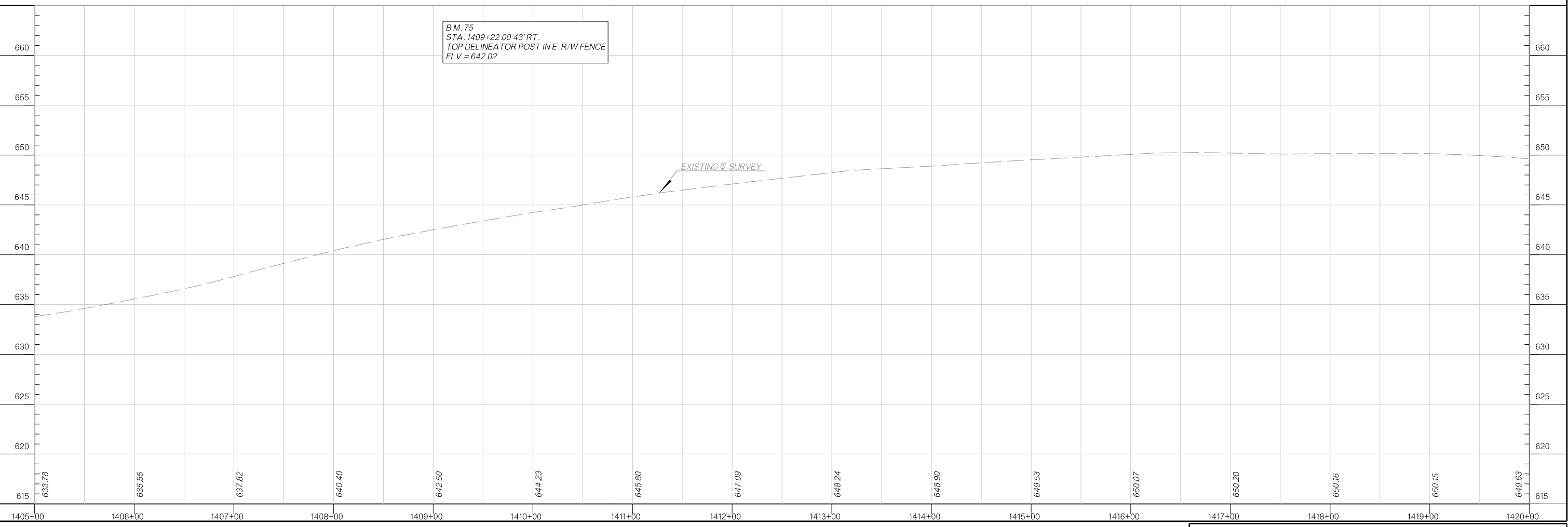
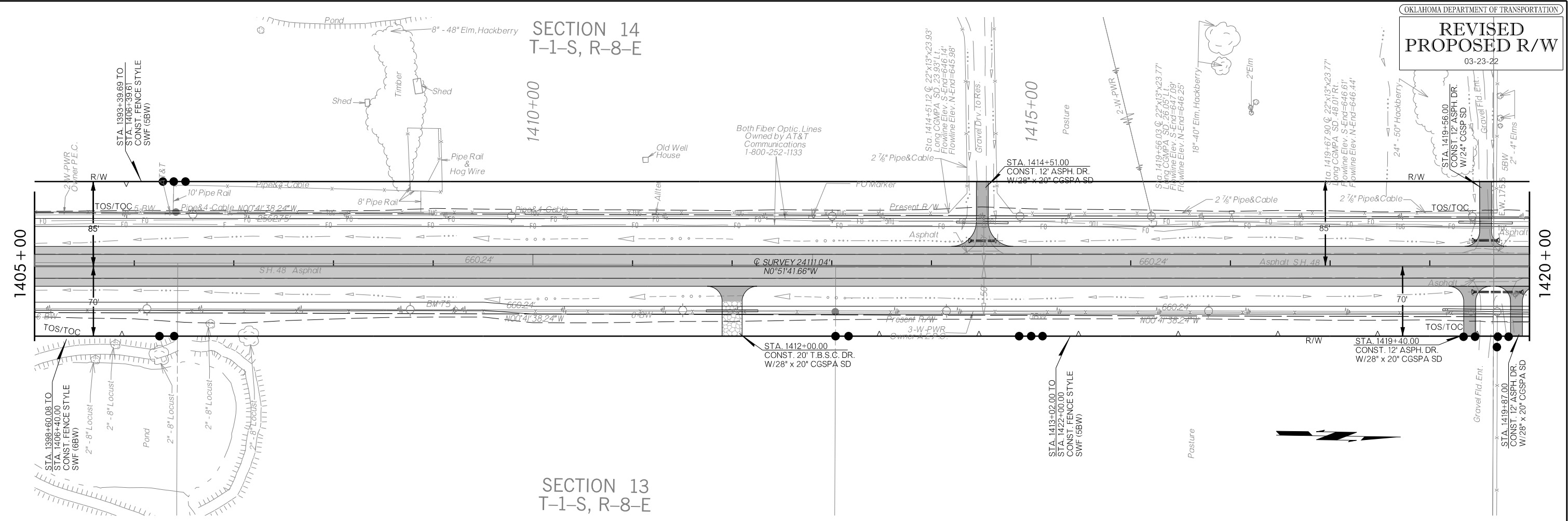


SECTION 14
T-1-S, R-8-E

1410+00

1415+00

SECTION 13
T-1-S, R-8-E

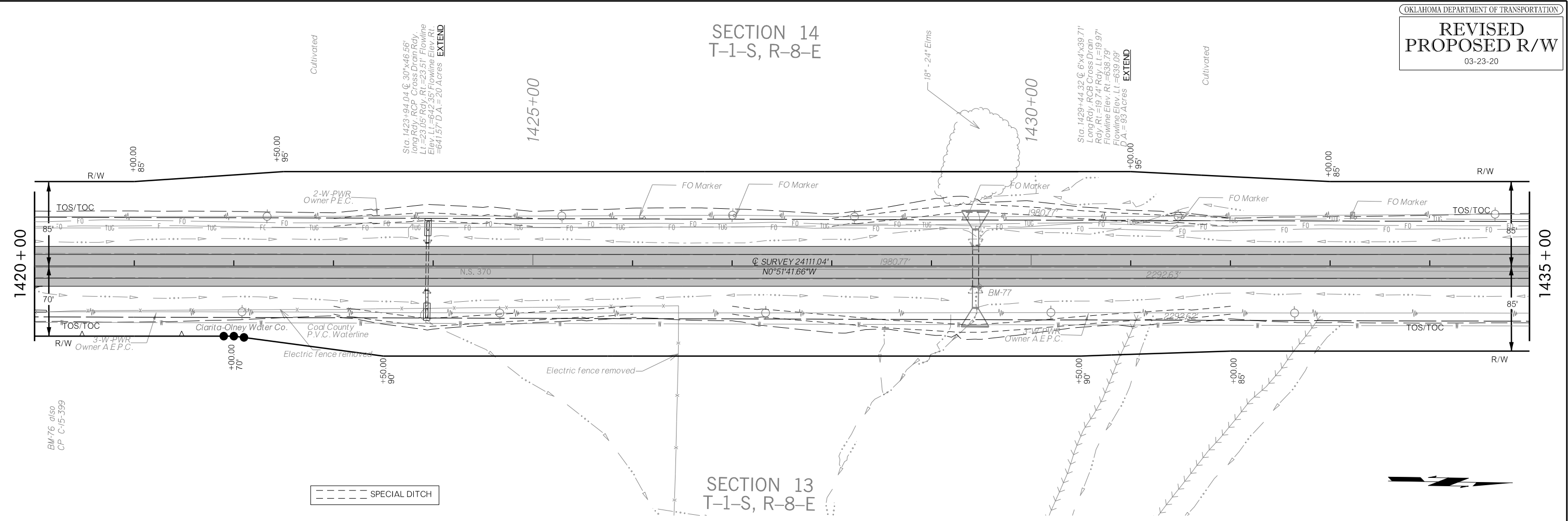


B.M. 75
 STA. 1409+22.00 43' RT.
 TOP DELINEATOR POST IN E. R/W FENCE
 ELV. = 642.02

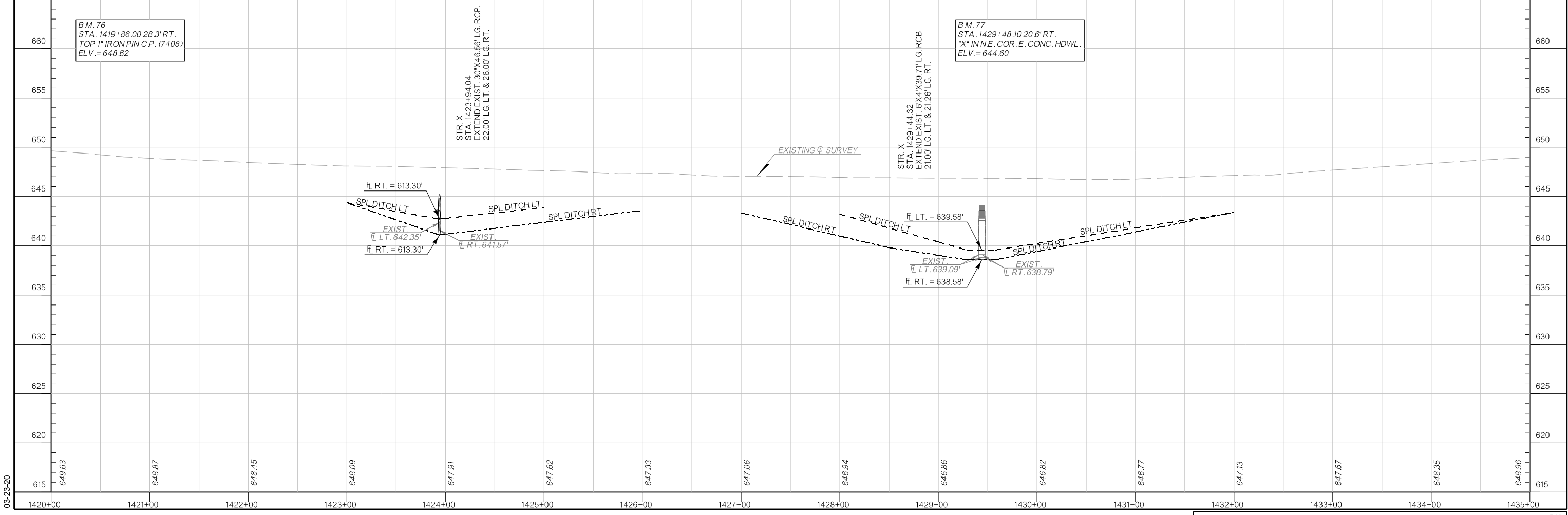
EXISTING Q SURVEY

03-23-22

SECTION 14
 T-1-S, R-8-E



SECTION 13
 T-1-S, R-8-E



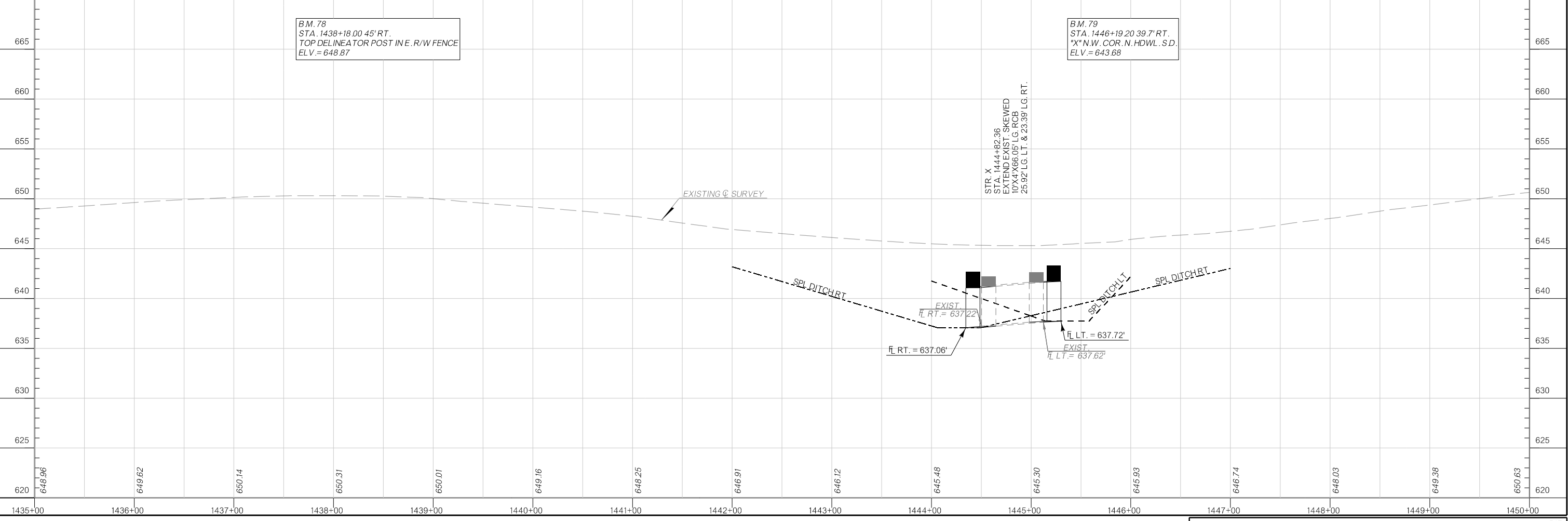
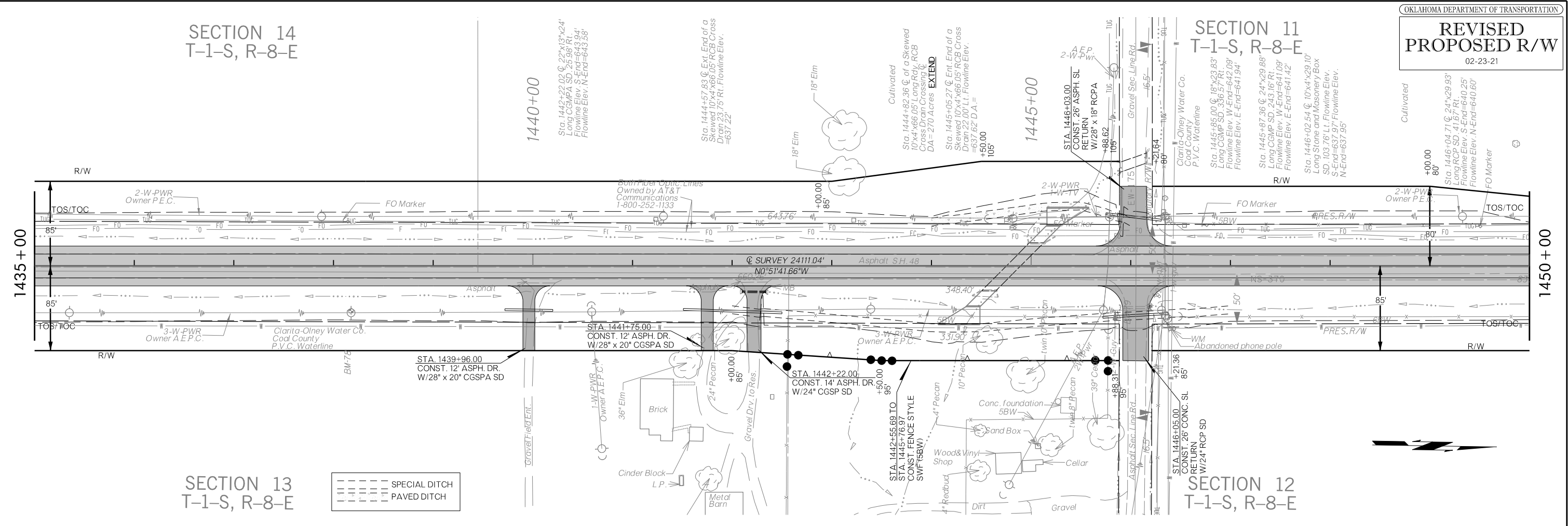
03-23-20

SECTION 14 T-1-S, R-8-E

SECTION 11 T-1-S, R-8-E

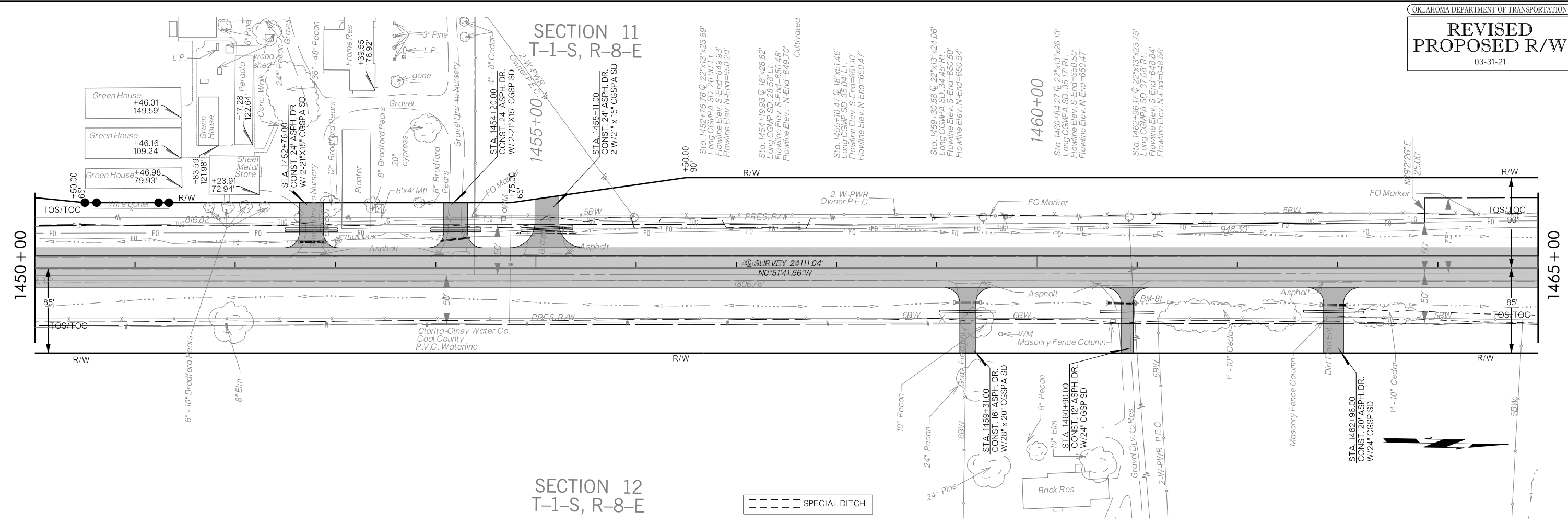
SECTION 13 T-1-S, R-8-E

SECTION 12 T-1-S, R-8-E



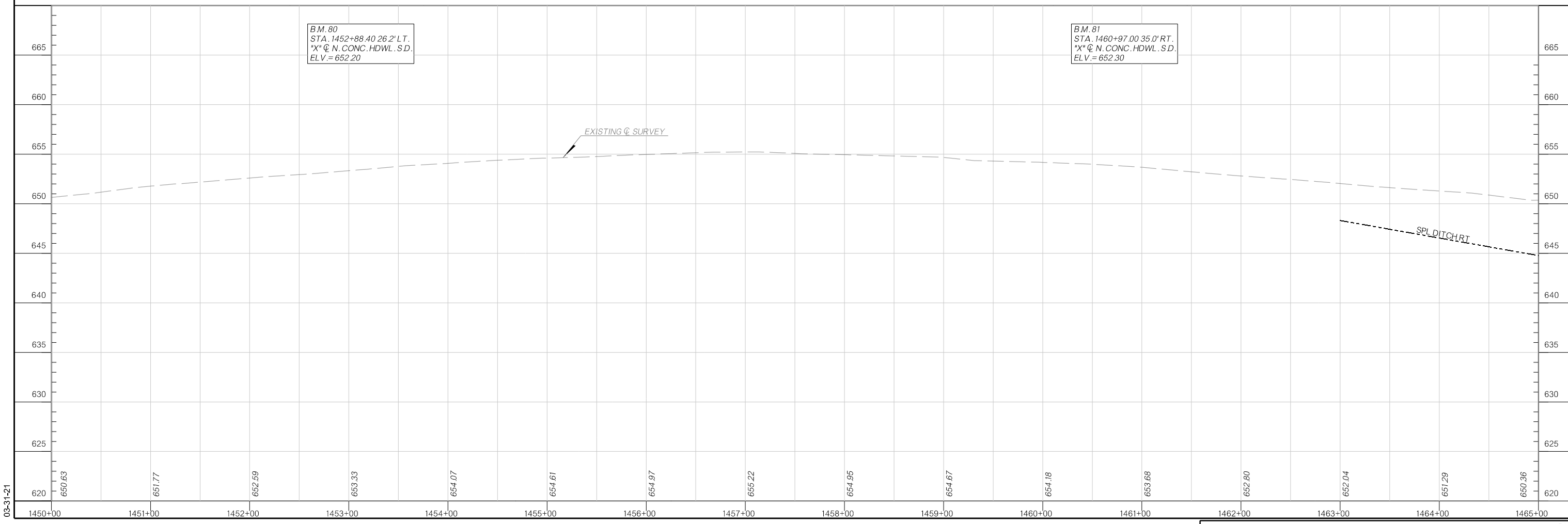
02-23-21

SECTION 11 T-1-S, R-8-E



SECTION 12 T-1-S, R-8-E

--- SPECIAL DITCH



03-31-21

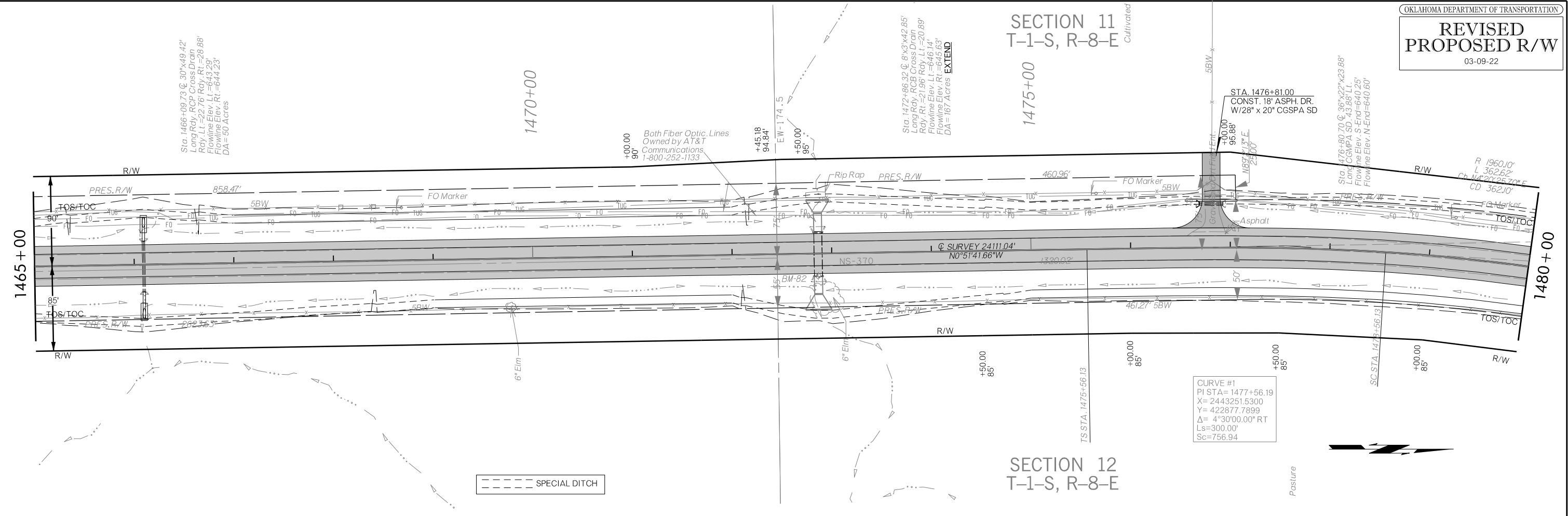
SECTION 11
 T-1-S, R-8-E

1475+00

1470+00

1465+00

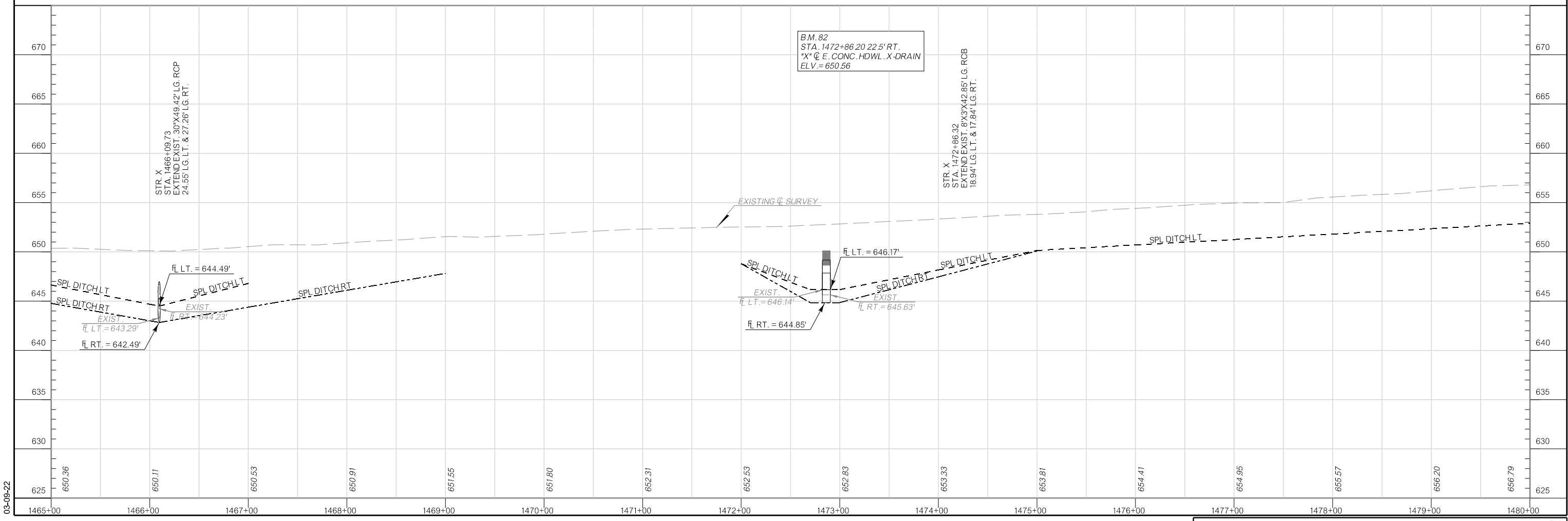
1480+00



CURVE #1
 PI STA= 1477+56.19
 X= 2443251.5300
 Y= 422877.7899
 Δ= 4°30'00.00" RT
 Ls=300.00'
 Sc=756.94

--- SPECIAL DITCH

SECTION 12
 T-1-S, R-8-E



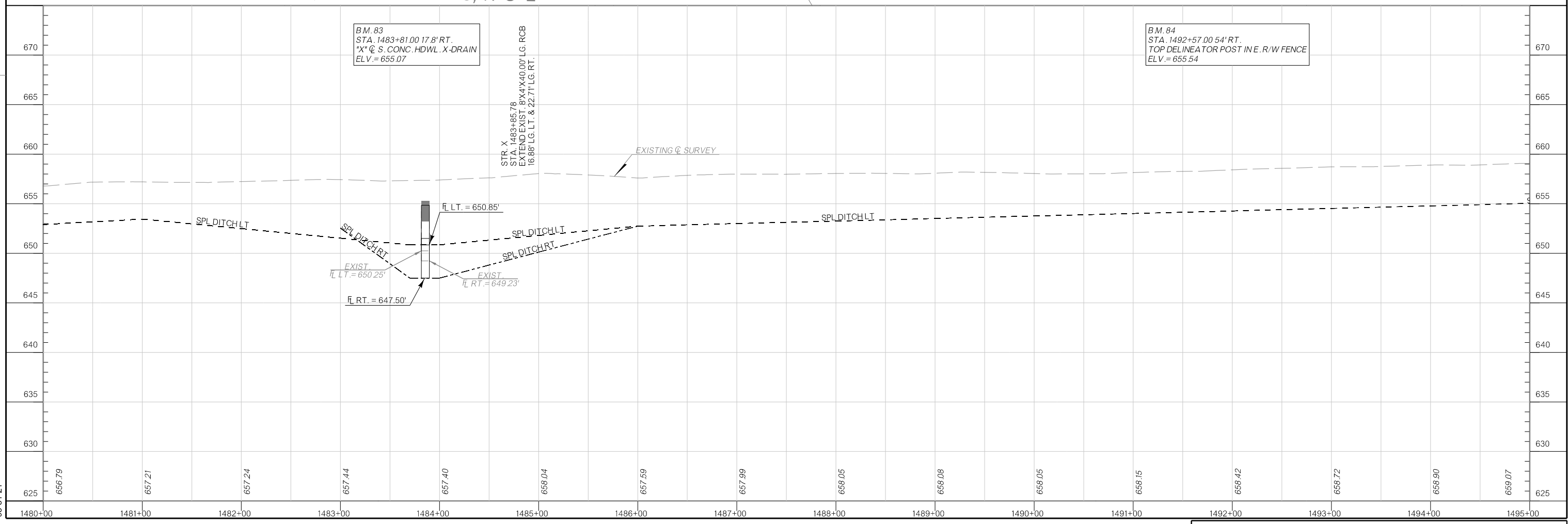
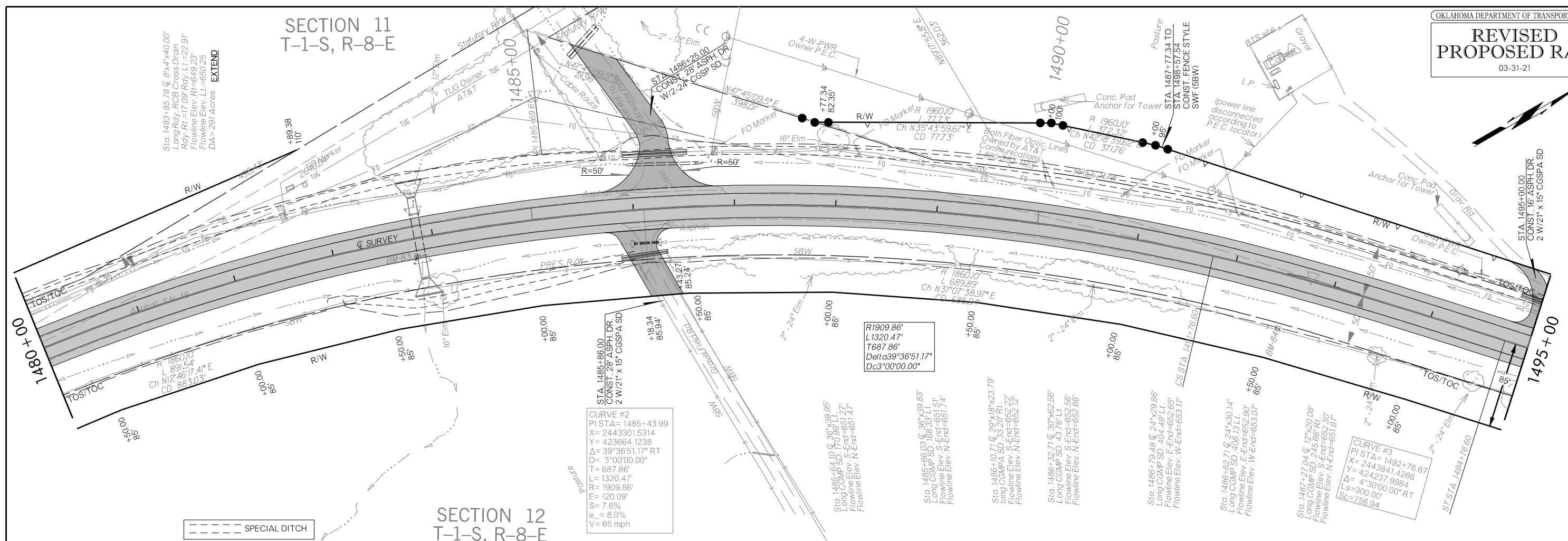
B.M. 82
 STA. 1472+86.20 22.5' RT.
 X @ E. CONC. HDWL. X-DRAIN
 ELV. = 650.56

STR. X
 STA. 1472+86.32
 EXTEND EXIST. 8'X3'X42.85' LG. RCB
 18.94' LG. LT. & 17.84' LG. RT.

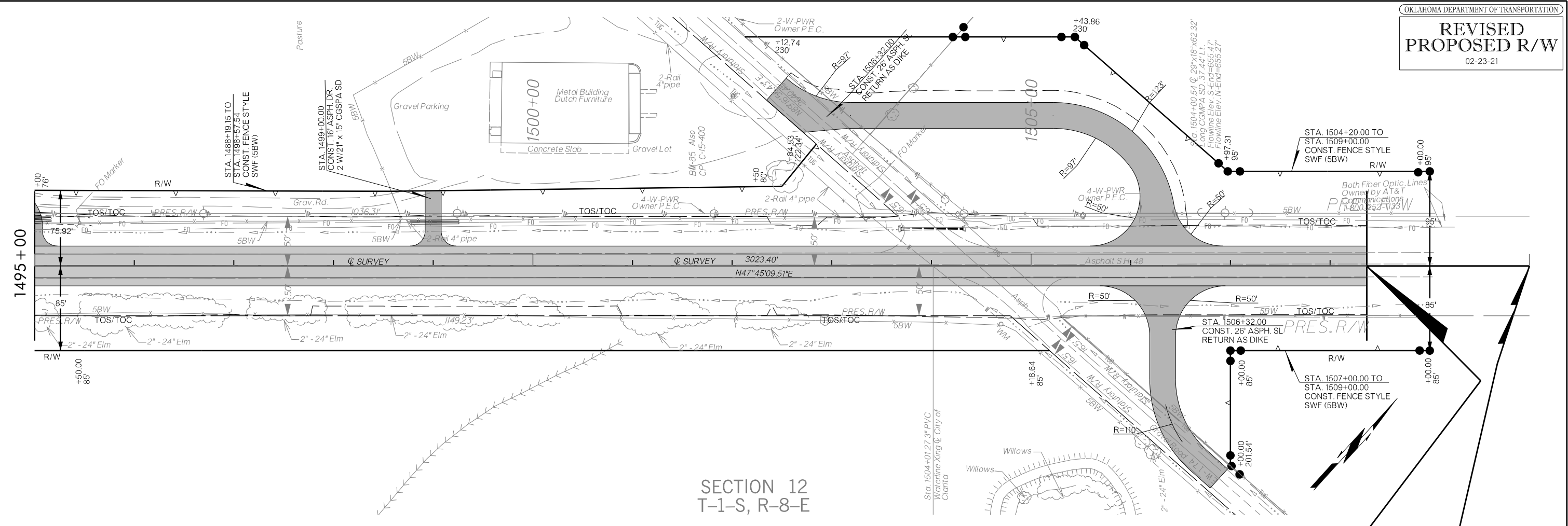
03-09-22

SECTION 11
T-1-S, R-8-E

SECTION 12
T-1-S, R-8-E



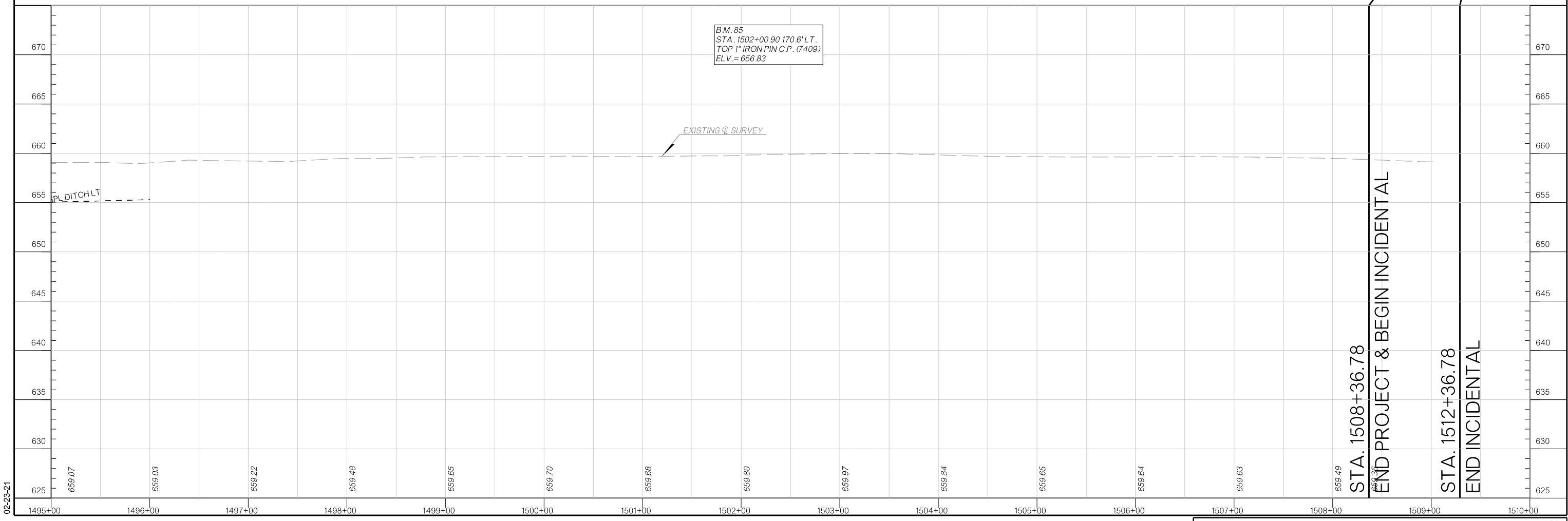
03-31-21



SECTION 12
 T-1-S, R-8-E

B.M. 85
 STA. 1502+00.90 170.6' LT.
 TOP 1" IRON PIN C.P. (7409)
 ELV. = 656.83

EXISTING ϕ SURVEY



STA. 1508+36.78
 END PROJECT & BEGIN INCIDENTAL

STA. 1512+36.78
 END INCIDENTAL

02-23-21

SURVEY CONTROL DATA

SURVEY DATA SHEETS

COAL-JOHNSTON COUNTY

S.H. 48

SWO 5159(01)

STATE JOB NO. 31047(04)

INDEX OF SURVEY SHEETS

S001.	TITLE SHEET
S002-S008.	SURVEY REPORTS
S009-S023.	SURVEY DATA SHEETS
S024-S038.	LAND TIE DATA SHEETS

1. HORIZONTAL CONTROL:

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

B. ACCURACY - THE PRIMARY CONTROL NETWORK, THE SECONDARY CONTROL NETWORK AND SECTION BOUNDARIES FOR THIS SURVEY ARE IN GENERAL COMPLIANCE WITH THE NGS SECOND ORDER, CLASS II STANDARDS FOR HORIZONTAL CONTROL (1:20,000).

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. VERTICAL CONTROL WAS TAKEN FROM USGS MON. 32-KED 1965 AND WAS TIED TO SWO 4234(1) SURVEY AND FASP NO. S-458(4)(5) PLANS @ TUPELO AZIMUTH MARK.

B. ACCURACY - VERTICAL CONTROL FOR THIS SURVEY IS WITHIN THE CLOSURE REQUIREMENT OF NOAA/NGS "CLASSIFICATION, STANDARDS OF ACCURACY, AND GENERAL SPECIFICATIONS OF GEODETIC CONTROL SURVEYS" (FEB. 1974, REPRINTED FEB. 1977) THIRD ORDER STANDARDS AS A MINIMUM.

SURVEY BEGAN: JUNE 12, 2015.
SURVEY RESUMED: MARCH 13, 2017
SURVEY COMPLETED: OCTOBER 19, 2017
SURVEY REVISED: DECEMBER 11, 2019

PERSONNEL:

SHAWN SMITH, PROFESSIONAL LAND SURVEYOR II
R. E. TURNER, TRANSPORTATION SPECIALIST LEVEL VI
E. A. MARTIN TRANSPORTATION SPECIALIST LEVEL IV
K. M. KEELING TRANSPORTATION SPECIALIST LEVEL IV

EQUIPMENT:

LEICA GPS EQUIPMENT 1200
LEICA GPS EQUIPMENT LEICA GS15
LEICA GS15 DATA COLLECTORS
LEICA DNA10 DIGITAL LEVEL
LEICA TCRA 1203 TOTAL STATION

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

Utility Companies:

Fiber Optic - AT&T, Telephone Co. - 1 - (405) 291-6941 Greg Clarkson
AT&T Distribution Locate Vendor USIC 866-861-7678
Windstream Tel. Co. - 1 - (800)-289-61901
501 Couch Drive Oklahoma City, Okla 73102
City of Wapanucka Water Lines 1- (580)-937-4272
211 North Choctaw Ave. Wapanucka, Okla 73461
Clarita-Olney Water Co. Coal County.
Clarita Oklahoma 74535 (580)428-3008
American Electric Power Company - 1 - (866)-237-5028

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

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, JULY 25, 2013.

SPECIFICATIONS FOR SURVEYS FOR PRIMARY AND SECONDARY HIGHWAYS DATED JANUARY, 2018 GOVERN.

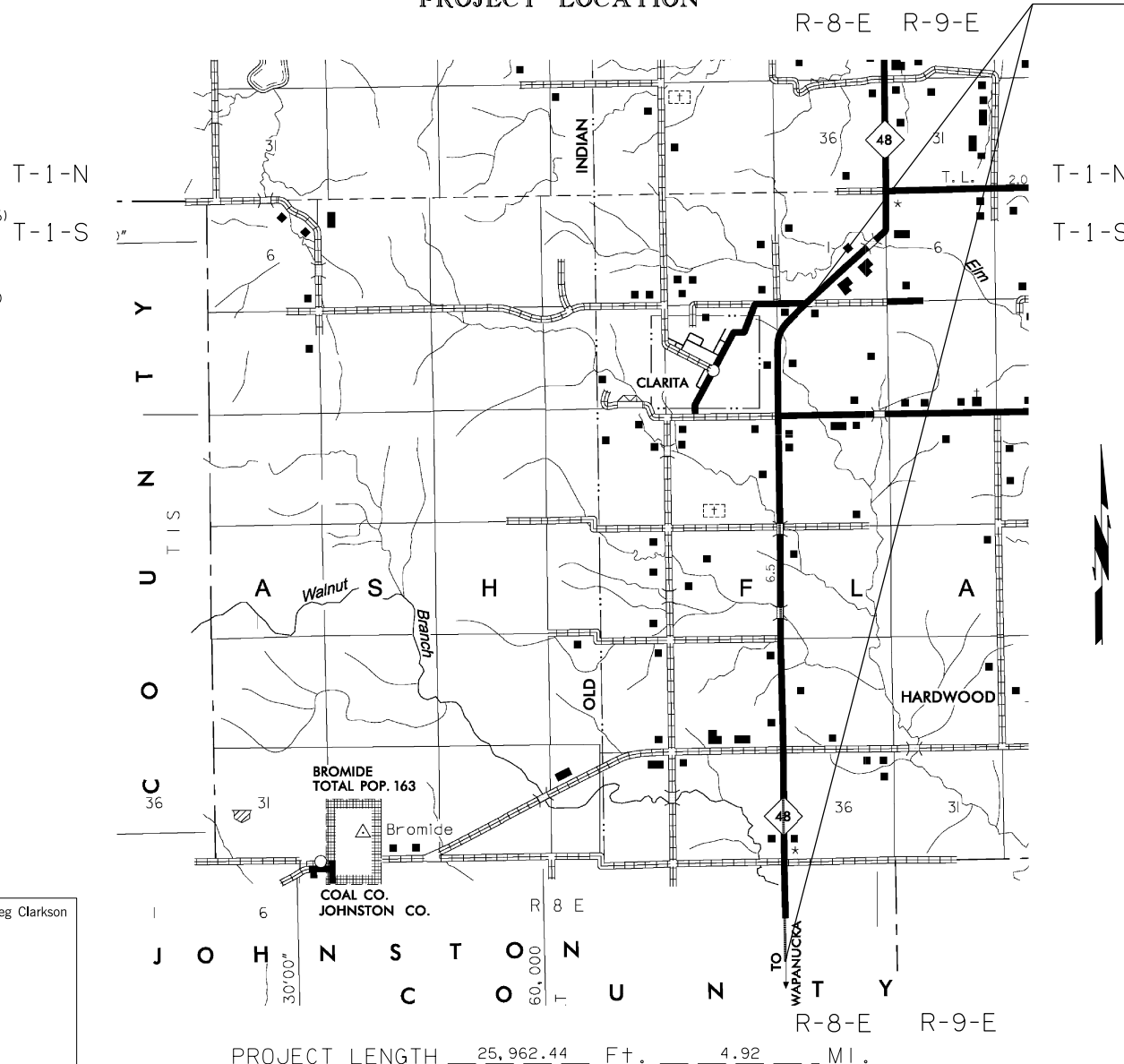


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PROJECT LOCATION

SURVEY EXTENTS



PROJECT LENGTH 25,962.44 Ft. 4.92 MI.

BEGINNING STATION : 1172+28.00 BEGINNING STATION : 1413+00.00
ENDING STATION : 1340+42.89 ENDING STATION : 1504+47.55

Note: Consultant Provided Survey Between Station 1340+42.89 and Station 1413+00.00

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

SWO 5159(1) Job/Piece 31047 (04) Engr. Contract No. _____

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:

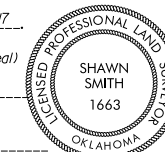
-applicable instructions contained in the U.S. Government Bureau of Land Management publication "Manual of Surveying Instructions";
-its supplement, "Restoration of Lost or Obliterated Corners and Subdivision of Sections";
-"Oklahoma Minimum Standards for the Practice of Land Surveying" as adopted by the State Board of Registration 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 and that it is true, accurate and correct to the best of my knowledge and belief.

Dated this 19 day of October 20 17

Land Surveyor  (seal)
Signature
Shawn Smith
Printed Name



Oklahoma Licensed Land Surveyor No. 1663

Certificate of Authorization No. _____ Exp. Date _____

PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S001			

OKLAHOMA DEPARTMENT OF TRANSPORTATION

SURVEY DIVISION (405) 521-2621 FAX (405) 522-0364

Date: October 19, 2017
 To: Mr. William L. Tackett, Chief of Surveys
 From: Shawn Smith, Professional Land Surveyor
 Subject: SWO 5159(1) – J/P No. 31047(04) – S.H. 48 – Coal-Johnston Counties
 From 1 mile South of the Coal/Johnston County Line, North 6 miles.

I. General:
 Survey Began: June 15, 2015
 Survey Completed: October 19, 2017

The measurement unit for this project was the U.S. Survey Foot.

II. Assignment:
 This survey was assigned to and completed by the Ada field crew.

III. Purpose of Survey:
 The purpose of this survey was to develop plans to widen and resurface the existing highway.

IV. Survey Limits:
 Survey began at the top of a hill approximately 2100 feet south of the EW 180.0 Section Line and extended north to the EW 174.0 Section Line. There is a section approximately 1.5 miles long within this survey that is being done by a consultant under SWO 5256(1) – J/P 31054(04). A separate survey done by ODOT Survey Division's Ada field crew under SWO 5257(1) – J/P 31053(04) was incorporated in this survey.

SWO 5159(1) S.H. 48 Johnston County
 Historical Letter & Written Report
 Page 2 of 4

V. Alignment:
 The centerline of survey was re-established along the existing S.H. 48 as shown on SWO 1034(1) survey, SWO 2034(1) survey, FASP No. S-460(5)(SH) plans and FASP No. S-458(7)(8)S plans. Reference monuments were found and reviewed. The PI shown at Sta. 1031+19.0 from FASP No. S-460(5)(SH) plans and the PI at Sta. 1234+45.2 from FASP No. S-458(7)(8)S plans, also shown on SWO 5159(1) survey, were established from reference points. When creating a line between the two PIs as shown on the previous surveys and plans, the alignment did not match the found reference points and existing structures. At a meeting at the ODOT central office with Mr. William Tackett, Mr. Larry Williams, Mr. Danny Dees, Mr. Kyle King and Mr. Jeff King, it was determined based on the existing evidence that a PI was necessary at EW 181.0 section line. By adding this PI, the alignment now fits well both north and south with reference points and structures.

VI. Stationing:
 Stationing was taken from SWO 5159(1) survey, FASP No. S-458(6)S, FASP No. S-458(7)S and FASP No. S-458(8)S plans. The found PI at Sta. 1234+45.20 from SWO 5159(1) survey was adjusted south to the established county line resulting in a new station value of Sta. 1234+45.09. Stationing was calculated back south from said point.

VII. Horizontal Control:
 Horizontal control for this survey is the Oklahoma State Plane Coordinate System, NAD 83(1993), Lambert Projection, South Zone, from NGS Continuing Operating Reference Stations (CORS) OKMA, OKDN, TXBN, and TXSR and HARN Stations Jesse and Hopewell.

VIII. Vertical Control:
 Vertical control was taken from USGS Mon. 32-KED 1965 and was tied to SWO 4234(1) Survey and FASP No. S-458(4)(5) plans @ Tupelo Azimuth Mark. Level Datum is NAVD 88.

IX. Photo Controls:
 Aerial control targets were established using RTK with multiple observations. 74 OSSDA check points were also established and shot with RTK with multiple observations.

X. Topography and DTM:
 Topography and DTM data were collected by aerial imagery and supplemented by conventional field methods.

SWO 5159(1) S.H. 48 Johnston County
 Historical Letter & Written Report
 Page 3 of 4

XI. Land Ties:
 Complete land tie information was obtained by conventional field methods within Sections 11, 12, 25, 26, 35 and 36, Township 1 South, Range 8 East and Sections 1, 2, 11 and 12, Township 2 South, Range 8 East of the Indian Meridian. Sections 13, 14, 23 and 24, Township 1 South, Range 8 East are being done by a consultant under SWO 5256(1) – J/P 31054(04).

XII. Existing Right of Way:
 The right of way along S.H. 48 was established from existing plans, right of way documents and right of way occupation. Right of way documents were acquired from ODOT right of way division along with the Coal and Johnston County courthouses. There were a few areas from SWO 5256(1) that were found to be incorrect and adjusted for this survey.

XIII. Utilities:
 Call OKIE was contacted on May 16, 2017 with ticket numbers 17051609320833, 07051609440897, 07051609450908 and 07051609470919. All utilities marked, along with any overhead lines, are depicted on the submitted digital file.

XIV. Potential Environment Contamination:
 During the course of the survey, the project site was carefully checked for any areas of environmental concern. There were no areas found during the course of the survey.

XV. Drainage:
 Drainage areas for all drains crossing the Survey Centerline were taken from USGS quad maps that have been scanned into a Microstation Design File.

High water information was gathered by conventional field methods. The results are shown on the submitted digital file.

XVI. Survey Data Sheets:
 Survey Data Sheets were submitted in the form of a Microstation Design File as per ODOT Survey Division Standards. These were incorporated into a set of design drawings and are in substantial conformity with the ODOT Survey Division Standards for Survey Data Sheets.

PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S002			SURVEY DATA SHEET SWO 5159(1)

PT NO.	X-Coord.	Y-Coord.	ELEV.
47	2443786.61190	391252.12820	621.09
48	2443746.58830	392117.46420	595.26
49	2443752.37100	393098.71040	592.76
50	2443744.27200	394080.48380	595.52
51	2443640.12320	394923.61670	610.81
52	2443620.49500	395282.81390	626.04
53	2443684.09450	396245.51700	621.66
54	2443660.86220	397068.12630	604.29
55	2443596.39030	398134.73040	606.53
56	2443665.81780	398995.34030	637.81
57	2443620.99810	399902.24280	634.31
58	2443638.71210	400736.27160	634.86
59	2443513.02420	401919.12940	639.95
60	2443523.50790	402678.99540	644.45
61	2443564.44560	403927.37330	644.03
62	2443546.65380	405215.70350	648.58
63	2443563.92770	406047.83280	649.90
64	2443550.07840	406902.54760	642.70
65	2443504.58590	408045.20880	630.31
66	2443493.59820	408780.29320	617.19
67	2443483.14260	409721.23320	622.83
68	2443454.07640	410525.65690	624.54
69	2443469.97790	411535.12220	638.97
70	2443441.79680	412197.27000	632.81
71	2443432.37590	412956.17230	623.01
72	2443361.15730	413637.48740	625.48
73	2443363.38530	414325.68430	631.21
74	2443411.09980	415162.67340	627.35
75	2443397.65810	416045.03400	642.02
76	2443366.58660	417108.68640	648.62
77	2443344.41370	418070.55880	644.60
78	2443355.85320	418940.36190	648.87
79	2443338.35140	419741.70040	643.68
80	2443262.41000	420409.89660	652.20
81	2443311.43740	421219.27590	652.30
82	2443281.12780	422408.22770	650.56
83	2443379.10650	423484.47310	655.07
84	2443866.82320	424184.42190	655.54
85	2444410.95800	424985.76880	656.83
86	2445213.80360	425417.83520	655.43
87	2445863.89390	426009.14170	653.57
88	2446463.09090	426587.39410	654.59
89	2447197.28790	427224.73770	654.23
90	2443720.24338	392353.20340	
300	2443704.41080	393307.29089	
301	2443704.41080	393307.29089	
302	2443704.41080	393307.29089	
303	2443693.50307	393964.60190	
304	2443682.59550	394621.90304	
305	2443670.46680	395352.79040	
306	2443660.78086	395936.47565	
307	2443650.01643	396585.15143	
308	2443645.57850	396852.58390	
309	2443639.90335	397194.57636	
310	2443639.25232	397233.80771	
311	2443631.47520	397702.46690	
312	2443617.08830	398569.43510	
313	2443607.08728	399234.46740	
314	2443602.72958	399524.23960	
315	2443597.08627	399899.49977	
316	2443589.19657	400424.13790	
317	2443577.08418	401229.56983	
318	2443557.61954	402523.90039	
319	2443537.08054	403889.67216	
320	2443517.77233	405173.60090	
321	2443517.23540	405209.30472	
322	2443507.31283	405869.12092	
323	2443506.41063	405929.11414	
324	2443502.50678	406188.70652	
325	2443498.14210	406478.94272	
326	2443497.39026	406528.93706	
327	2443486.91261	407225.66469	
328	2443482.51860	407517.85108	
329	2443472.60415	408177.12710	
331	2443298.91067	419727.13829	
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333	2443283.57600	420746.83995	
334	2443267.41157	421821.71844	
335	2443259.21260	422366.92124	
336	2443254.53820	422677.75251	
337	2443251.52996	422877.78989	
338	2443239.29890	423691.11290	
339	2443841.42861	424237.99838	
340	2443989.52284	424372.50526	
341	2443257.87993	422977.65093	
342	2443301.53139	423664.12375	
343	2443772.86397	424165.11875	
344	2444708.26484	425025.30407	
345	2445191.23810	425463.96547	
346	2445844.36273	426057.16719	
347	2446227.58864	426405.23287	
348	2445163.88972	422856.45150	
349	2443471.91049	408223.25354	
350	2443457.73250	409166.04110	
351	2443435.82240	410622.98220	
352	2443418.03320	411805.90370	
353	2443398.23070	413122.69960	
354	2443378.33450	414445.72880	
355	2443360.63900	415622.41690	
356	2443345.60240	416622.30390	
357	2443338.62299	417086.40700	
358	2443324.55100	418022.14558	
359	2443311.01798	418922.04383	
360	2443308.83869	419066.95956	

PT NO.	X-Coord.	Y-Coord.
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7601	2443779.07153	393026.96286
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7603	2443769.68019	393291.54826
7604	2443720.15843	393297.94525
7605	2445005.19678	393305.90593
7606	2445004.74068	393338.90286
7607	2444329.18448	393331.05236
7608	2443769.13344	393324.54413
7609	2443758.49829	393965.42929
7610	2443753.34144	394276.18650
7611	2443767.09471	394351.44006
7612	2443764.19108	394526.41596
7613	2444003.30702	394280.33455
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7615	2443762.58815	394623.01021
7616	2443755.92265	395024.67952
7617	2443739.68006	395099.43531
7618	2443725.77248	395937.51993
7619	2443717.28060	396449.24947
7620	2443701.03800	396524.00526
7621	2443700.00820	396586.06250
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7623	2443687.76425	397323.89513
7624	2443686.93464	397373.88825
7625	2443696.10349	397424.05729
7626	2443693.08371	397606.03223
7627	2443737.75737	397324.72474
7628	2443736.09815	397424.71098
7629	2444036.05685	397429.68863
7630	2444033.03691	397611.67358
7631	2443677.35357	398533.94695
7632	2444946.25289	398576.09971
7633	2446264.67060	398632.12202
7634	2443676.96056	398586.94511
7635	2443662.68429	399525.14122
7636	2443643.30152	392351.91361
7637	2443627.58743	393289.33334
7638	2442362.57754	393260.37045
7639	2442362.13229	393293.36891
7640	2443627.14570	393322.33188
7641	2443622.22543	393824.00122
7642	2443609.83172	393883.83102
7643	2443608.51931	393926.91828
7644	2443606.68337	394073.55346
7645	2443615.85222	394123.72249
7646	2443612.99639	394295.81758
7647	2443609.21535	394523.66743
7648	2443613.79977	394548.75195
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7650	2443262.24874	394337.96797
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7653	2443609.47439	395123.92815
7654	2443601.51678	395935.28417
7655	2443589.54690	397232.98515
7656	2443587.78717	397423.74341
7657	2443586.85972	397524.28086
7658	2443573.60657	397573.52875
7659	2443386.12155	397420.39688
7660	2443383.63273	397570.37623
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7662	2443574.45775	397823.58229
7663	2443562.80671	398525.68589
7664	2442657.64724	398513.25368
7665	2442538.05804	398481.90403
7666	2442488.06154	398481.31275
7667	2442437.71545	398510.23047
7668	2442307.88102	398508.44757
7669	2440987.40855	398549.81842
7670	2441787.24602	398560.80404
7671	2441986.90561	398590.04872
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7673	2443557.09202	399233.77660
7674	2443552.73523	399523.48776
7675	2443550.47888	399673.52688
7676	2443539.72803	399723.38085
7677	2443537.09203	399898.66585
7678	2443656.97383	399900.41675
7679	2443527.09117	400563.68801
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7681	2443636.73492	401230.46143
7682	2443522.08970	401228.79093
7683	2443496.60251	402923.59943
7684	2443497.09156	403223.59903
7685	2443488.06955	403823.53120
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7687	2443437.33898	403871.73553
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7690	2440906.59088	403835.32715
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7693	2443595.98856	403906.80104
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7695	2446184.01996	403899.61910
7696	2446183.50788	403932.61564
7697	2443467.24071	405208.57564
7698	2443462.24125	405208.50255
7699	2443576.93725	405209.94571
7700	2443452.31876	405868.31325
7701	2443451.41656	405928.30647
7702	2443447.51244	406187.91700

PT NO.	X-Coord.	Y-Coord.
7703	2443445.82473	406300.14340
7704	2443450.44818	406325.22076
7705	2443448.14756	406478.20346
7706	2443447.39573	406528.19781
7707	2443557.64476	406529.58880
7708	2443441.42617	406925.15292
7709	2443430.67531	406975.00690
7710	2443547.96218	407188.87389
7711	2443422.52513	407516.96579
7712	2443534.94108	408075.47740
7713	2443538.76100	408100.68967
7714	2443413.75904	408099.87971
7715	2443408.38362	408124.80670
7716	2443407.61121	408176.16935
7717	2443399.80493	409027.77979
7718	2443394.80549	409027.70461
7719	2443397.98707	409148.66076
7720	2440834.93362	409110.96873
7721	2443522.97699	409150.27082
7722	2444785.09125	409163.48720
7723	2446101.02349	409177.26714
7724	2443256.96244	419742.98344
7725	2442522.95246	419731.49357
7726	2440670.86012	419702.48762
7727	2443356.95439	419744.30169
7728	2445286.99393	419764.95771

**REVISED
PROPOSED R/W**

03-23-20

PT NO.	X-Coord.	Y-Coord.	PT NO.	X-Coord.	Y-Coord.	PT NO.	X-Coord.	Y-Coord.
7806	2443234.88317	425023.34957	8101	2445990.53710	416455.31410	9259	2446142.25784	406555.43978
7807	2444651.27917	425041.09155	8102	2444007.82110	416433.50580	9261	2443468.91671	409166.20562
7808	2446193.97201	426442.24532	8103	2444015.93630	415773.32730	9262	2443507.64671	406529.08872
7809	2445858.68633	425056.21571	8104	2441364.02000	417055.72830	9266	2438233.24261	406451.09722
7810	2444802.09503	425042.98069	8105	2441380.94690	415735.50980	9267	2438200.12961	409088.38522
7811	2446261.20527	426368.22041	8106	2442039.03590	415745.68910	9268	2440834.70961	409127.46722
7812	2445845.31499	425990.48725	8107	2442050.24040	414855.38290	9269	2440870.51803	406490.09406
7813	2445843.41047	426123.84713	8108	2442827.65320	414867.34810	9351	2443546.23170	403889.80381
8001	2443698.00328	392071.85073	8109	2442834.27060	414437.39900	9352	2443586.74071	401229.70038
8002	2444513.90679	392100.88657	8110	2442055.65150	414425.41520	9353	2443627.21910	398569.57420
8003	2444874.60722	392110.17491	8111	2443177.28170	414520.88760	9354	2440987.66081	398533.32032
8004	2445025.71219	392049.65082	8112	2443173.22610	414321.56190	9355	2438347.76871	398496.97152
8005	2445013.99551	392767.11825	8113	2443725.43013	414176.18189	9356	2438307.05966	401155.44137
8006	2445004.92736	393322.40391	8114	2439424.54050	414384.91980	9357	2438266.35061	403813.91122
8007	2444902.90254	392898.49405	8115	2439470.92430	411746.43620	9358	2440906.33861	403851.82522
8008	2444637.51463	392960.71388	8116	2443876.56290	409579.49150	9359	2440946.99972	401192.57228
8009	2444382.74047	392918.23354	8117	2443974.61670	409629.34580	9361	2448821.30300	403942.43100
8010	2444310.65321	393083.21530	8118	2443537.86020	410488.36290	9362	2448862.12501	401302.09862
8011	2444320.88924	393314.45485	8119	2443535.81110	410624.48590	9363	2448902.62731	398661.67362
8012	2444363.43799	393399.58839	8120	2443347.21750	416426.23970	9364	2446264.92321	398615.62391
8013	2444640.64243	393533.52140	8121	2443355.21400	415766.04750	9368	2446183.76735	403916.11741
8014	2444650.35432	393655.42000	8122	2443383.42070	413785.73080	9369	2446224.34486	401265.89830
8015	2444544.14990	393771.04433	8123	2443395.63440	413125.79860	9370	2443175.38100	427644.34600
8016	2444519.92685	393926.16239	8124	2443432.27560	411146.00210	9371	2445821.21576	427677.98309
8017	2444537.23625	393975.34263	8125	2441989.18680	419706.62930	9372	2448454.75040	427711.46380
8018	2444327.85149	393972.67716	8126	2442648.20970	419716.94895	9373	2443134.81845	430263.35101
8019	2444296.48890	393893.57110	8127	2441997.49518	419046.46269	9374	2445783.66056	430307.70403
8020	2444265.88135	393835.72140	8128	2442656.36244	419056.76107	9375	2448410.25852	430351.68460
8021	2444234.95270	393778.15120	8129	2443315.22970	419067.05945	9376	2448432.50442	429031.57637
8022	2444186.75575	393745.52040	8130	2443311.45245	419378.89416			
8023	2444137.76690	393737.34500	8131	2444061.40950	419386.92048			
8024	2444035.82470	393788.20970	8132	2444057.18965	419735.29492			
8025	2443983.46190	393856.99690	8133	2444641.73130	418340.00328			
8026	2443973.09970	393901.12910	8134	2445965.67472	418352.24393			
8027	2443975.91117	393968.19695	8135	2444538.77400	425023.18100			
8028	2443670.85169	393964.31354	8136	2444498.29838	427661.16454			
8029	2443664.40466	394621.65126	8137	2444478.93862	428981.75899			
8030	2444990.01939	394639.99898	8138	2444459.23248	430285.52740			
8031	2444313.31102	395946.96038	8139	2445802.35831	428998.43490			
8032	2444306.72607	396597.11960	8140	2447117.40111	429015.00526			
8033	2443645.52600	396585.06960	8141	2447096.96827	430329.69446			
8034	2443606.97990	399899.63729	8142	2443154.92584	428965.07561			
8035	2446244.63403	399940.76110	9001	2438365.43389	397146.53246			
8036	2442405.55531	390646.18809	9002	2439684.12531	397168.35519			
8037	2442362.30631	393276.86857	9003	2441002.81672	397190.17792			
8038	2443013.10917	393949.59046	9004	2442321.17906	397211.99521			
8039	2443006.41584	394607.25873	9005	2443639.54140	397233.81249			
8040	2442348.42702	394592.86619	9006	2444960.74085	397260.74514			
8041	2442334.54773	395908.86382	9007	2446281.94031	397287.67779			
8042	2443617.09950	399234.60575	9008	2447602.31771	397314.59367			
8043	2442957.19851	399225.48764	9009	2448922.69511	397341.50956			
8044	2442947.06750	399890.46454	9010	2439667.71476	398515.14592			
8045	2441566.31189	403861.31987	9011	2442307.43996	398551.44726			
8046	2441557.18397	404520.95058	9012	2448942.76290	396021.34550			
8047	2442216.98446	404530.50874	9013	2448983.76351	393380.91702			
8048	2442207.68377	405190.20295	9014	2446332.55600	393337.83200			
8049	2443526.93921	405209.44627	9015	2444946.07115	398592.59906			
8050	2445503.99425	405229.19551	9016	2447583.77526	398638.64877			
8051	2446163.01260	405235.77859	9019	2446298.71226	395978.86142			
8052	2443517.13728	405869.26521	9022	2443651.51060	395936.32670			
8053	2443267.16423	405865.59395	9023	2443677.29871	393306.97582			
8054	2443266.44284	405925.58983	9024	2441047.31391	393246.76131			
8055	2443516.41589	405929.26109	9025	2438417.32910	393186.54680			
8056	2443512.62080	406188.85173	9026	2438382.70190	395826.45520			
8057	2443262.64656	406185.26297	9029	2441017.58485	395881.40093			
8058	2443258.40494	406475.39777	9030	2448543.12161	422428.72322			
8059	2443508.37761	406479.09407	9031	2445903.08382	422397.85280			
8060	2445483.60506	406548.85201	9032	2443263.03002	422366.98218			
8061	2443497.96421	407188.36795	9033	2440626.21261	422324.88522			
8062	2444814.92430	407201.69456	9034	2437986.02441	422279.24762			
8063	2443493.12296	407518.00756	9111	2443218.65500	425006.64500			
8064	2440857.08988	407479.10900	9112	2443721.40030	390676.10820			
8065	2440852.61382	407808.78064	9113	2443765.16311	388044.62582			
8066	2442170.44777	407828.21391	9114	2441132.11161	387985.47122			
8067	2442165.78912	408157.86954	9115	2438499.06011	387926.31662			
8068	2443483.44046	408177.28679	9116	2438458.19461	390556.43171			
8069	2444784.84036	409179.98547	9117	2437935.75600	424913.51700			
8070	2442523.22871	419714.99187	9118	2440576.27061	424955.42022			
8071	2442509.27654	420548.19506	9119	2441089.71032	390616.26797			
8072	2443293.28043	420560.47179	9121	2448498.95900	425072.80900			
8073	2445287.26997	419748.45972	9122	2449025.50709	390745.59256			
8074	2445243.07037	422390.13514	9123	2449067.24300	388109.99100			
8075	2440638.30949	421614.36819	9124	2446416.18491	388077.30632			
8076	2441008.79991	422330.99326	9128	2445858.89300	425039.71700			
8077	2441695.62831	423659.49846	9129	2446374.31811	390710.86171			
8078	2441921.04206	423663.48316	9131	2448587.33225	419783.77824			
8079	2441895.24296	424045.60522	9132	2448618.36800	417144.39900			
8080	2441913.56381	424081.34908	9133	2448658.88400	414504.12100			
8081	2443240.84251	423686.81359	9134	2446016.55700	414470.07600			
8082	2443235.04748	424031.53278	9138	2445947.28243	419755.52342			
8083	2443223.61619	424711.52670	9139	2445981.88500	417115.44940			
8084	2442928.51164	424705.80586	9141	2443307.23260	419727.26860			
8085	2442923.55045	425000.92416	9142	2443339.22100	417086.43200			
8086	2442280.76216	424988.46318	9143	2443371.20700	414445.66300			
8087	2443597.05270	424035.96303	9144	2440740.09600	414405.16750			
8088	2443500.51004	423689.95808	9145	2438108.98500	414364.67200			
8089	2445880.98841	423718.78490	9146	2438071.86630	417004.55310			
8090	2447416.31250	409207.45510	9147	2438034.74761	419644.43422			
8091	2447386.55740	411188.20820	9148	2440671.14100	419685.99000			
8092	2446069.15800	411174.16130	9149	2440705.61960	417045.49370			
8093	2444738.98360	411820.11000	9232	2443420.06190	411805.93430			
8094	2444750.44780	411160.07880	9236	2438154.44500	411726.60200			
8095	2444079.52270	411813.02210	9239	2440787.40360	411766.27040			
8096	2444055.84470	413132.99620	9242	2448695.37260	411862.63300			
8097	2446027.01550	413814.76040	9249	2446058.62260	411834.29340			
8098	2445999.18930	415795.17880	9251	2448731.86111	409221.14492			
8099	2447319.00190	415809.72040	9252	2				

STATE OF OKLAHOMA
DEPARTMENT OF HIGHWAYS
SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

S.D. FORM NO. 11
REVISED 3/10/75

COUNTY COAL STATION NUMBER C-15-400 SWO 5159(1) DATE 04/14/16

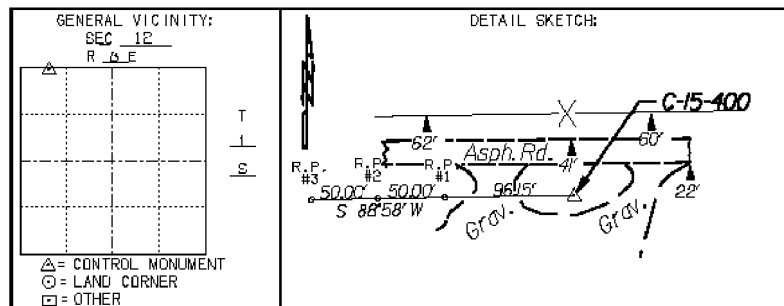
TYPE OF MONUMENT #6 Rebar MONUMENT SET FOR _____

METHOD ESTABLISHED: TRILATERATION _____, TRIANGULATION _____, TRAVERS _____, OTHER (SPECIFY) _____
 STATIC GPS OBSERVATIONS USING CORS STATIONS HOPEWELL, TXSR, OKDN, OKMA, TXRN, SWO4234(1) _____
 HEIGHT OF INSTRUMENT ABOVE MONUMENT: _____ FEET, TYPE OF WITNESS POST _____ NONE _____

WRITTEN DESCRIPTION OF LOCATION: _____
 From the intersection of S.H. 31 and S.H. 48 north east of Clarita,
 Southwest along S.H. 48 for 1.3 miles. Station on the right.

(SEE TOPD DRAWING BELOW) ESTABLISHED BY: Robert Vance Uhles PLS 1521

COORDINATE SYSTEM: <input type="checkbox"/> USC&GS, <input type="checkbox"/> OHD, <input type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> NAD 83 (1993)			
GRID DATA:	COORDINATES (FEET)	GRID BEARING	DISTANCE
SOUTH ZONE	X 2444410.9580	S88°58'W	96.15'
ACCURACY:		S88°58'W	146.15'
J nd. ORDER	Y 424985.7688	S88°58'W	196.15'
GEODETTIC DATA		POSITION	
ANGLE OF VARIANCE (θ)	LATITUDE	NORTH	ELEVATION
0°53'47.49"	34°29'27.24247"		656.83' FEET
	LONGITUDE	WEST	SOURCE NAVD 88
			ACCURACY: 3 rd. ORDER



STATE OF OKLAHOMA
DEPARTMENT OF HIGHWAYS
SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

S.D. FORM NO. 11
REVISED 3/10/75

COUNTY COAL STATION NUMBER C-15-401 SWO 5159(1) DATE 04/14/16

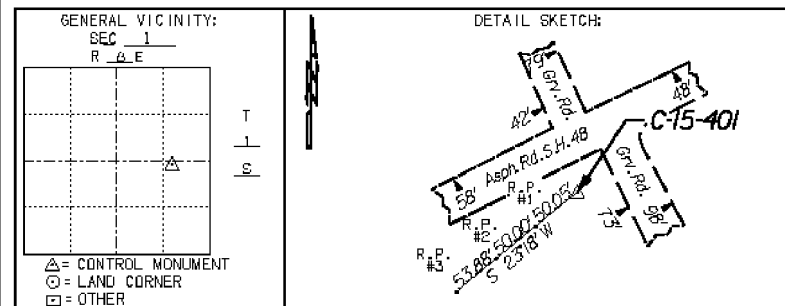
TYPE OF MONUMENT #6 Rebar MONUMENT SET FOR GPS CONTROL

METHOD ESTABLISHED: TRILATERATION _____, TRIANGULATION _____, TRAVERS _____, OTHER (SPECIFY) _____
 STATIC GPS OBSERVATIONS USING CORS STATIONS HOPEWELL, TXSR, OKDN, OKMA, TXRN, SWO4234(1) _____
 HEIGHT OF INSTRUMENT ABOVE MONUMENT: _____ FEET, TYPE OF WITNESS POST _____ NONE _____

WRITTEN DESCRIPTION OF LOCATION: _____
 From the intersection of S.H. 31 and S.H. 48 north east of Clarita,
 Southwest along S.H. 48 for 6 tenths of a mile. Station on the left.

(SEE TOPD DRAWING BELOW) ESTABLISHED BY: DARREL RAY MASON

COORDINATE SYSTEM: <input type="checkbox"/> USC&GS, <input type="checkbox"/> OHD, <input type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> NAD 83 (1993)			
GRID DATA:	COORDINATES (FEET)	GRID BEARING	DISTANCE
SOUTH ZONE	X 2447197.2879	S23°18'W	50.05'
ACCURACY:		S23°18'W	100.06'
J nd. ORDER	Y 427224.7377	S23°18'W	153.93'
GEODETTIC DATA		POSITION	
ANGLE OF VARIANCE (θ)	LATITUDE	NORTH	ELEVATION
0°54'06.62"	34°29'48.95545"		654.23' FEET
	LONGITUDE	WEST	SOURCE NAVD 88
			ACCURACY: 3 rd. ORDER



STATE OF OKLAHOMA
DEPARTMENT OF HIGHWAYS
SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

S.D. FORM NO. 11
REVISED 3/10/75

COUNTY JOHNSTON STATION NUMBER J-35-785 SWO 5159(1) DATE 04/14/16

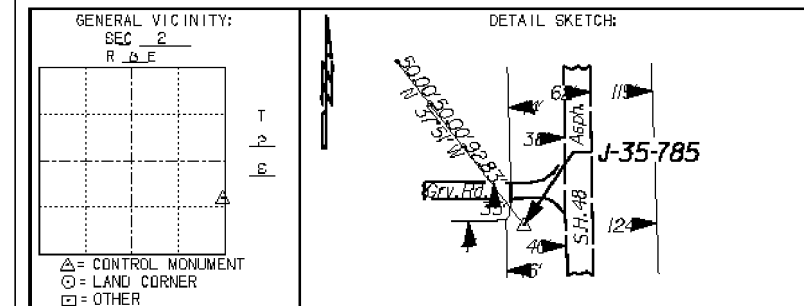
TYPE OF MONUMENT 1" Iron Pin MONUMENT SET FOR _____

METHOD ESTABLISHED: TRILATERATION _____, TRIANGULATION _____, TRAVERS _____, OTHER (SPECIFY) _____
 STATIC GPS OBSERVATIONS USING CORS STATIONS HOPEWELL, TXSR, OKDN, OKMA, TXRN, SWO4234(1) _____
 HEIGHT OF INSTRUMENT ABOVE MONUMENT: _____ FEET, TYPE OF WITNESS POST _____ NONE _____

WRITTEN DESCRIPTION OF LOCATION: _____
 From the intersection of S.H. 7 and S.H. 48 in Wpanucka,
 North along S.H. 48 for 2.4 miles. Station on the left.

(SEE TOPD DRAWING BELOW) ESTABLISHED BY: Robert Vance Uhles PLS 1521

COORDINATE SYSTEM: <input type="checkbox"/> USC&GS, <input type="checkbox"/> OHD, <input type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> NAD 83 (1993)			
GRID DATA:	COORDINATES (FEET)	GRID BEARING	DISTANCE
SOUTH ZONE	X 2443620.4950	N37°51'W	92.83'
ACCURACY:		N37°51'W	142.83'
J nd. ORDER	Y 395282.8139	N37°51'W	192.83'
GEODETTIC DATA		POSITION	
ANGLE OF VARIANCE (θ)	LATITUDE	NORTH	ELEVATION
0°53'38.99"	34°24'33.57235"		626.04' FEET
	LONGITUDE	WEST	SOURCE NAVD 88
			ACCURACY: 3 rd. ORDER



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
COUNTY <u>COAL-JOHNSTON</u> HIGHWAY <u>SH 48</u> STATE JOB NO. <u>31047(04)</u> SHEET NO. <u>S005</u>			SURVEY DATA SHEET SWO 5159(1)

STATE OF OKLAHOMA S.D. FORM NO. 11
DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS
SURVEY DIVISION SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

COUNTY COAL STATION NUMBER C-15-398 SWO 5159(1) DATE 04/14/18

TYPE OF MONUMENT #4 Rebar W/Cap MONUMENT SET FOR GPS CONTROL

METHOD ESTABLISHED: TRILATERATION , TRIANGULATION , TRAVERS , OTHER (SPECIFY)
 STATIC GPS OBSERVATIONS USING CORS STATIONS HOPEWELL, TXSB, OKDN, DKMA, TXBN, SWO4234(1)
 HEIGHT OF INSTRUMENT ABOVE MONUMENT: FEET, TYPE OF WITNESS POST NONE

WRITTEN DESCRIPTION OF LOCATION:
From the intersection of S.H. 7 and S.H. 48 in Wapanucka,
North along S.H. 48 for 6.4 miles. Station on the right.

(SEE TOPD DRAWING BELOW) ESTABLISHED BY: Robert Vance Uhles PLS 1521

COORDINATE SYSTEM: <input type="checkbox"/> USC&GS, <input type="checkbox"/> OHD, <input type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> NAD 83 (1993)			
GRID DATA:	COORDINATES (FEET)	GRID BEARING	DISTANCE
SOUTH ZONE ACCURACY: 3rd ORDER	X <u>2443469.9779</u>	N89°57'E	55.53'
	Y <u>411535.1222</u>	N89°57'E	105.53'
		N89°57'E	155.53'
GEODETTIC DATA		POSITION	ELEVATION
ANGLE OF VARIANCE (θ)	LATITUDE <u>34°27'14.34779"</u> NORTH	<u>638.97'</u> FEET	
<u>0°53'39.69"</u>	LONGITUDE <u>96°25'27.70732"</u> WEST	SOURCE <u>NAVD 88</u>	
		ACCURACY: <u>3rd</u> ORDER	

GENERAL VICINITY:
SEC 25
R A E

△ = CONTROL MONUMENT
○ = LAND CORNER
□ = OTHER

DETAIL SKETCH:

STATE OF OKLAHOMA S.D. FORM NO. 11
DEPARTMENT OF HIGHWAYS DEPARTMENT OF HIGHWAYS
SURVEY DIVISION SURVEY DIVISION
POSITION AND DESCRIPTION OF SURVEY MONUMENTS

COUNTY COAL STATION NUMBER C-15-399 SWO 5159(1) DATE 04/14/18

TYPE OF MONUMENT #4 Rebar W/Cap MONUMENT SET FOR GPS CONTROL

METHOD ESTABLISHED: TRILATERATION , TRIANGULATION , TRAVERS , OTHER (SPECIFY)
 STATIC GPS OBSERVATIONS USING CORS STATIONS HOPEWELL, TXSB, OKDN, DKMA, TXBN, SWO4234(1)
 HEIGHT OF INSTRUMENT ABOVE MONUMENT: FEET, TYPE OF WITNESS POST NONE

WRITTEN DESCRIPTION OF LOCATION:
From the intersection of S.H. 7 and S.H. 48 in Wapanucka,
North along S.H. 48 for 6.5 miles. Station on the right.

(SEE TOPD DRAWING BELOW) ESTABLISHED BY: Robert Vance Uhles PLS 1521

COORDINATE SYSTEM: <input type="checkbox"/> USC&GS, <input type="checkbox"/> OHD, <input type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> NAD 83 (1993)			
GRID DATA:	COORDINATES (FEET)	GRID BEARING	DISTANCE
SOUTH ZONE ACCURACY: 3rd ORDER	X <u>2443366.5066</u>	N89°06'E	50.00'
	Y <u>417106.6864</u>	N89°06'E	99.94'
		N89°06'E	149.93'
GEODETTIC DATA		POSITION	ELEVATION
ANGLE OF VARIANCE (θ)	LATITUDE <u>34°28'09.49189"</u> NORTH	<u>646.62'</u> FEET	
<u>0°53'39.69"</u>	LONGITUDE <u>96°25'27.90299"</u> WEST	SOURCE <u>NAVD 88</u>	
		ACCURACY: <u>3rd</u> ORDER	

GENERAL VICINITY:
SEC 13
R A E

△ = CONTROL MONUMENT
○ = LAND CORNER
□ = OTHER

DETAIL SKETCH:

PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION SURVEY DATA SHEET SWO 5159(1) COUNTY <u>COAL</u> - <u>JOHNSTON</u> HIGHWAY <u>SH 48</u> STATE JOB NO. <u>31047(04)</u> SHEET NO. <u>S006</u>
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		

CHECK LEVELS				SW05159(1)		BENCH MARK LIST		(ENGLISH)	(NGS) 88	DATUM
BM No.	1st Set	2nd Set	3rd Set	Mean Diff.	Adj. Elev.	Published Elev.	DESCRIPTION			
47	-25.83	-25.80		-25.82	-25.83	621.09	Top of 1" Iron Pin (7405) 54.6' Rt. Sta. 1161+26.0			
48	-2.51	-2.49		-2.50	-2.50	595.26	*X* N.E. Cor. Conc. Hdwl. X-Drain 28.1' Rt. Sta. 1169+91.9			
49	+2.76	+2.75	+2.77	+2.77	+2.76	592.76	*X* S.E. Cor. Conc. Hdwl. X-Drain 49.3' Rt. Sta. 1179+72.9			
50	+15.30	+15.30	+15.32	+15.307	+15.30	595.52	Top Delineator Post In E. R/W Fence 57' Rt. Sta. 1189+55			
51	+15.22	+15.21		+15.215	+15.22	610.81	Top Delineator Post In W. R/W Fence 34' Lt. Sta. 1197+99			
52	-4.37	-4.37		-4.37	-4.38	626.04	Top of 1" Iron Pin C.P. (7406) 48.2' Lt. Sta. 1201+58.8			
53	-17.35	-17.36		-17.355	-17.35	621.66	*X* E. Of S. Conc. Hdwl. S.D. 30.5' Rt. Sta. 1211+20.4			
54	+2.23	+2.23	+2.23	+2.23	+2.22	604.31	*X* In Conc. On S. End Of E. Guardrail 20.2' Rt. Sta. 1219+43.3			
55	+31.27	+31.29	+31.28	+31.28	+31.28	606.53	*[*] S.E. Cor. S. Conc. Hdwl. 27.5' Lt. Sta. 1230+0.8			
56	-3.41	-3.42	-3.41	-3.413	-3.42	637.81	Top Delineator Post In E. R/W Fence 55' Rt. Sta. 1238+70			
57	+0.48	+0.46	+0.48	+0.473	+0.47	634.39	*X* N.E. Cor. E. Conc. Hdwl. 24.0' Rt. Sta. 1247+77.7			
58	+5.09	+5.08		+5.085	+5.09	634.86	Top Delineator Post In East R/W Fence 54' Rt. Sta. 1256+11			
59	+4.49	+4.51	+4.51	+4.503	+4.50	639.95	Top Delineator Post by N. Gate Post 54' Lt. Sta. 1267+96			
60	-0.43	-0.39	-0.41	-0.41	-0.42	644.45	*[*] N. Conc. Hdwl. S.D. 31.8' Lt. Sta. 1275+55.6			
61	+4.54	+4.55		+4.545	+4.55	644.03	*X* N.E. Cor. E. Conc. Hdwl. 27.9' Rt. Sta. 1288+03.2			
62	+1.32	+1.34	+1.33	+1.33	+1.32	648.58	*[*] N. Conc. Hdwl. 29.5' Rt. Sta. 1300+91.7			
63						649.90	Top Delineator Post In E. R/W Fence 59' Rt. Sta. 1309+23			

CHECK LEVELS				SW05159(1)		BENCH MARK LIST		(ENGLISH)	(NGS) 88	DATUM
BM No.	1st Set	2nd Set	3rd Set	Mean Diff.	Adj. Elev.	Published Elev.	DESCRIPTION			
63	-7.18	-7.21	-7.18	7.20	-7.20	649.90	Top Delineator Post In E. R/W Fence 59' Rt. Sta. 1309+23			
64	-12.39	-12.39		-12.39	-12.39	642.70	Top Delineator Post In E. R/W Fence 58' Rt. Sta. 1317+78			
65	-13.11	-13.13	-13.12	-13.12	-13.12	630.31	*[*] N. End RCP S.D. 30.0' Rt. Sta. 1329+21.5			
66	+5.65	+5.65		+5.65	+5.64	617.19	*X* N.E. Cor. E. Conc. Hdwl. 30.1' Rt. Sta. 1336+56.7			
67	+1.70	+1.73	+1.71	+1.713	+1.71	622.83	*X* N. End Conc. Hdwl. X-Drain 33.8' Rt. Sta. 1345+97.6			
68	+14.43	+14.42		+14.425	+14.43	624.54	*X* N. End E. Conc. Rail 16.8' Rt. Sta. 1354+02.4			
69	-6.16	-6.16	-6.15	-6.157	-6.16	638.97	Top 1" Iron Pin C.P. (7407) 47.9' Rt. Sta. 1364+11.5			
70	-9.79	-9.79		-9.79	-9.80	632.81	*[*] E. Conc. Hdwl. 29.7' Rt. Sta. 1370+74.0			
71	+2.45	+2.49	+2.47	+2.47	+2.47	623.01	*X* N.E. Cor. E. Conc. Hdwl. 31.6' Rt. Sta. 1378+33.0			
72	+5.74	+5.73	+5.73	+5.733	+5.73	625.48	*X* S.W. Cor. W. Hdwl. 29.3' Lt. Sta. 1385+15.3			
73	-3.85	-3.87	-3.86	-3.86	-3.86	631.21	*X* S. End W. Conc. Rail 16.8' Lt. Sta. 1392+03.4			
74	+14.67	+14.68		+14.675	+14.67	627.35	Top Delineator Post In E. R/W Fence 44' Rt. Sta. 1400+40			
75	+6.59	+6.62	+6.60	+6.603	+6.60	642.02	Top Delineator Post In E. R/W Fence 43' Rt. Sta. 1409+22			
76	-4.00	-4.04	-4.02	-4.02	-4.02	648.62	Top 1" Iron Pin C.P. (7408) 28.3' Rt. Sta. 1419+86.0			
77	+4.26	+4.28		+4.27	+4.27	644.60	*X* In N.E. Cor. E. Conc. Hdwl. 20.6' Rt. Sta. 1429+48.1			
78	-5.18	-5.18		-5.18	-5.19	648.87	Top Delineator Post In E. R/W Fence 45' Rt. Sta. 1438+18			
79						643.68	*X* N.W. Cor. N. Hdwl. S.D. 39.7' Rt. Sta. 1446+19.2			

CHECK LEVELS				SW05159(1)		BENCH MARK LIST		(ENGLISH)	(NGS) 88	DATUM
BM No.	1st Set	2nd Set	3rd Set	Mean Diff.	Adj. Elev.	Published Elev.	DESCRIPTION			
79	+8.52	+8.51	+8.52	+8.517	+8.52	643.68	*X* N.W. Cor. N. Hdwl. S.D. 39.7' Rt. Sta. 1446+19.2			
80	+0.10	+0.11	+0.11	+0.11	+0.10	652.20	*X* N. Conc. Hdwl. S.D. 26.2' Lt. Sta. 1452+88.4			
81	-1.75	-1.74	-1.74	-1.743	-1.74	652.30	*X* N. Conc. Hdwl. 35.0' Rt. Sta. 1460+97.0			
82	+4.51	+4.53	+4.51	+4.517	+4.51	650.56	*X* E. Conc. Hdwl. X-Drain 22.5' Rt. Sta. 1472+86.2			
83	+0.48	+0.47	+0.47	+0.473	+0.47	655.07	*X* S. Conc. Hdwl. X-Drain 17.8' Rt. Sta. 1483+81.0			
84	+1.31	+1.29	+1.29	+1.29	+1.29	655.54	Top Delineator Post In E. R/W Fence 54' Rt. Sta. 1492+57			
85	-1.40	-1.40	-1.38	-1.393	-1.40	656.83	Top 1" Iron Pin C.P. (7409) 170.6' Lt. Sta. 1502+00.9			
86	-1.64	-1.64		-1.64	-1.64	655.43	Top Delineator Post In E. R/W Fence 49' Rt. Sta. 1510+86			
87	+0.80	+0.80		+0.80	+0.80	653.79	Top Delineator Post In E. R/W Fence 49' Rt. Sta. 1519+64			
88	-0.37	-0.37	-0.35	-0.36	-0.36	654.59	*[*] E. Conc. Hdwl. 23.5' Rt. Sta. 1527+96.8			
89						654.23	Top 1" Iron Pin C.P. (7410) 45.3' Rt. Sta. 1537+68.8			

PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SW05159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S007			

Project: SWO 5159(1), J/P 31047(04)
 Alignment Name: A001
 Alignment Style: Centerline

	Station	Northing	Easting
Element: Linear			
POB -300	1172+28.00	392353.2034	2443720.243
PI -312	1234+45.00	398569.4351	2443617.088
Tangential Direction:	N 0°57'02.54" W		
Tangential Length:	6217.00		
Element: Linear			
PI -312	1234+45.00	398569.4351	2443617.088
TS -338	1475+56.13	422677.7525	2443254.538
Tangential Direction:	N 0°51'41.88" W		
Tangential Length:	24111.04		
Element: Clothoid			
TS -338	1475+56.13	422677.7525	2443254.538
SPI -337	1477+56.20	422877.7890	2443251.53
SC -341	1478+56.13	422077.8600	2443257.88
Entrance Radius:	0		
Exit Radius:	1909.86		
Length:	300		
Angle:	4°30'00.00" Right		
Constant:	756.94		
Long Tangent:	200.06		
Short Tangent:	100.06		
Long Chord:	299.92		
Xs:	299.82		
Ys:	7.85		
P:	1.96		
K:	149.97		
Tangent Direction:	N 0°51'41.88" W		
Radial Direction:	N 80°08'18.34" E		
Chord Direction:	N 0°38'18.29" E		
Radial Direction:	S 88°21'41.88" E		
Tangent Direction:	N 3°38'18.34" E		
Element: Circular			
SC -341	1478+56.13	422977.8500	2443257.88
PI ()	1485+43.99	423984.1238	2443301.531
CC -348		422856.4515	2445163.89
CS -343	1491+78.80	424165.1188	2443772.864
Radius:	1909.86		
Delta:	39°38'51.17" Right		
Degree of Curvature	3°00'00.00"		
Length:	1320.47		
Tangent:	867.86		
Chord:	1294.33		
Middle Ordinate:	112.99		
External:	120.00		
Tangent Direction:	N 3°38'18.34" E		
Radial Direction:	S 88°21'41.88" E		
Chord Direction:	N 23°26'43.93" E		

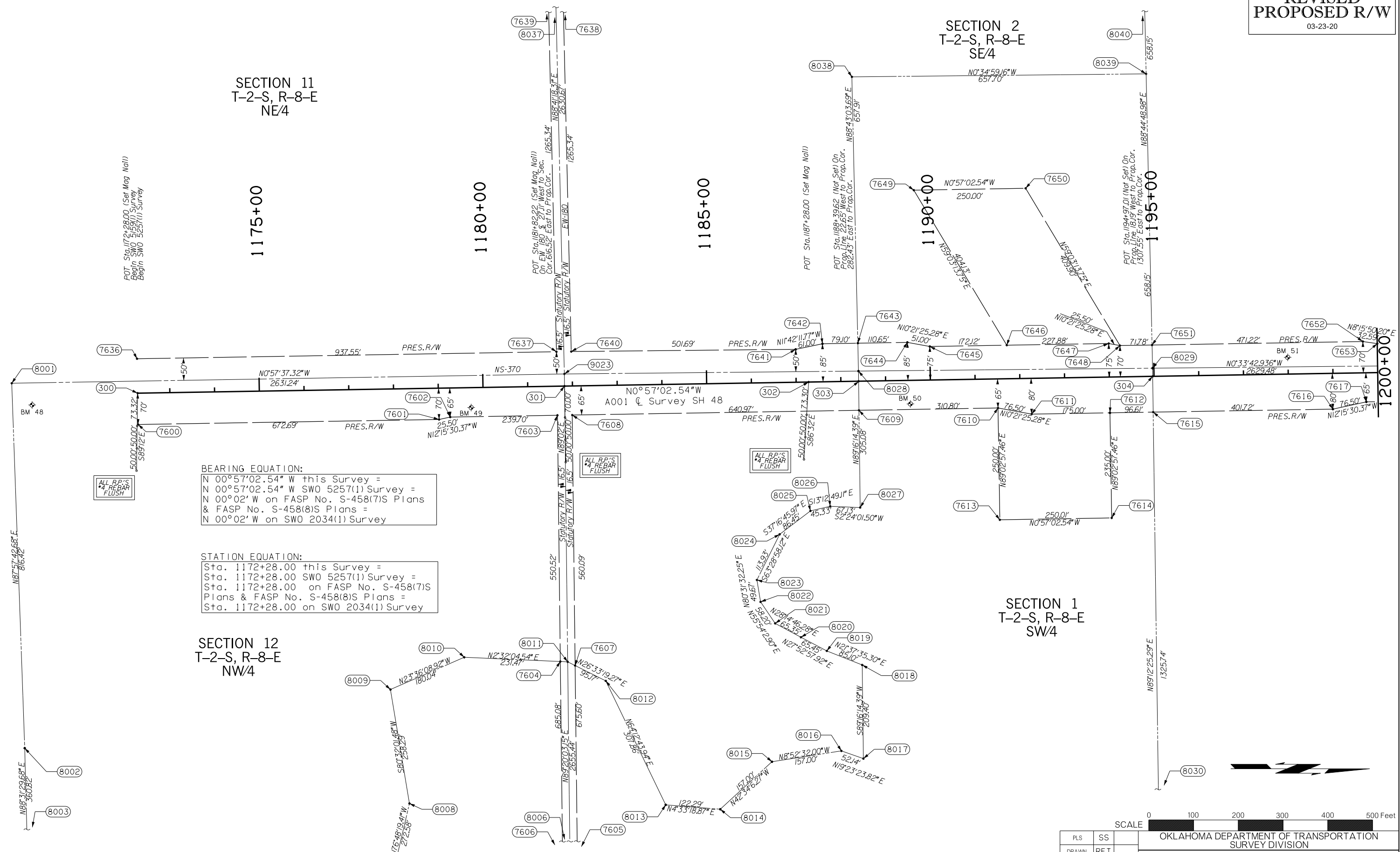
Radial Direction:	S 46°44'50.49" E		
Tangent Direction:	N 43°15'09.51" E		
Element: Clothoid			
CS -343	1491+78.80	424165.1188	2443772.864
SPI -339	1462+76.86	424237.9984	2443841.429
ST -340	1494+78.80	424372.5053	2443989.523
Entrance Radius:	1909.86		
Exit Radius:	0		
Length:	300		
Angle:	4°30'00.00" Right		
Constant:	756.94		
Long Tangent:	200.06		
Short Tangent:	100.06		
Long Chord:	299.92		
Xs:	299.81		
Ys:	7.85		
P:	1.96		
K:	149.97		
Tangent Direction:	N 43°15'09.50" E		
Radial Direction:	S 46°44'50.50" E		
Chord Direction:	N 46°15'09.56" E		
Radial Direction:	S 42°14'50.50" E		
Tangent Direction:	N 47°45'09.50" E		
Element: Linear			
ST -340	1494+78.80	424372.5053	2443989.523
POE -347	1525+00.00	426405.2329	2446227.589
Tangential Direction:	N 47°45'09.51" E		
Tangential Length:	3023.4		

PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		SURVEY DATA SHEET SWO 5159(1)
CHECKED	SS		
APPROVED			
CREW	ADA		
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S008			

SECTION 2 T-2-S, R-8-E SE/4

SECTION 11 T-2-S, R-8-E NE/4

SECTION 12 T-2-S, R-8-E NW/4



BEARING EQUATION:
 N 00°57'02.54" W this Survey =
 N 00°57'02.54" W SWO 5257(1) Survey =
 N 00°02' W on FASP No. S-458(7)S Plans
 & FASP No. S-458(8)S Plans =
 N 00°02' W on SWO 2034(1) Survey

STATION EQUATION:
 Sta. 1172+28.00 this Survey =
 Sta. 1172+28.00 SWO 5257(1) Survey =
 Sta. 1172+28.00 on FASP No. S-458(7)S
 Plans & FASP No. S-458(8)S Plans =
 Sta. 1172+28.00 on SWO 2034(1) Survey



PLS	SS		
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		

OKLAHOMA DEPARTMENT OF TRANSPORTATION
 SURVEY DIVISION

SURVEY DATA SHEET
 SWO 5159(1)

COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S009

SECTION 2
T-2-S, R-8-E
SE/4

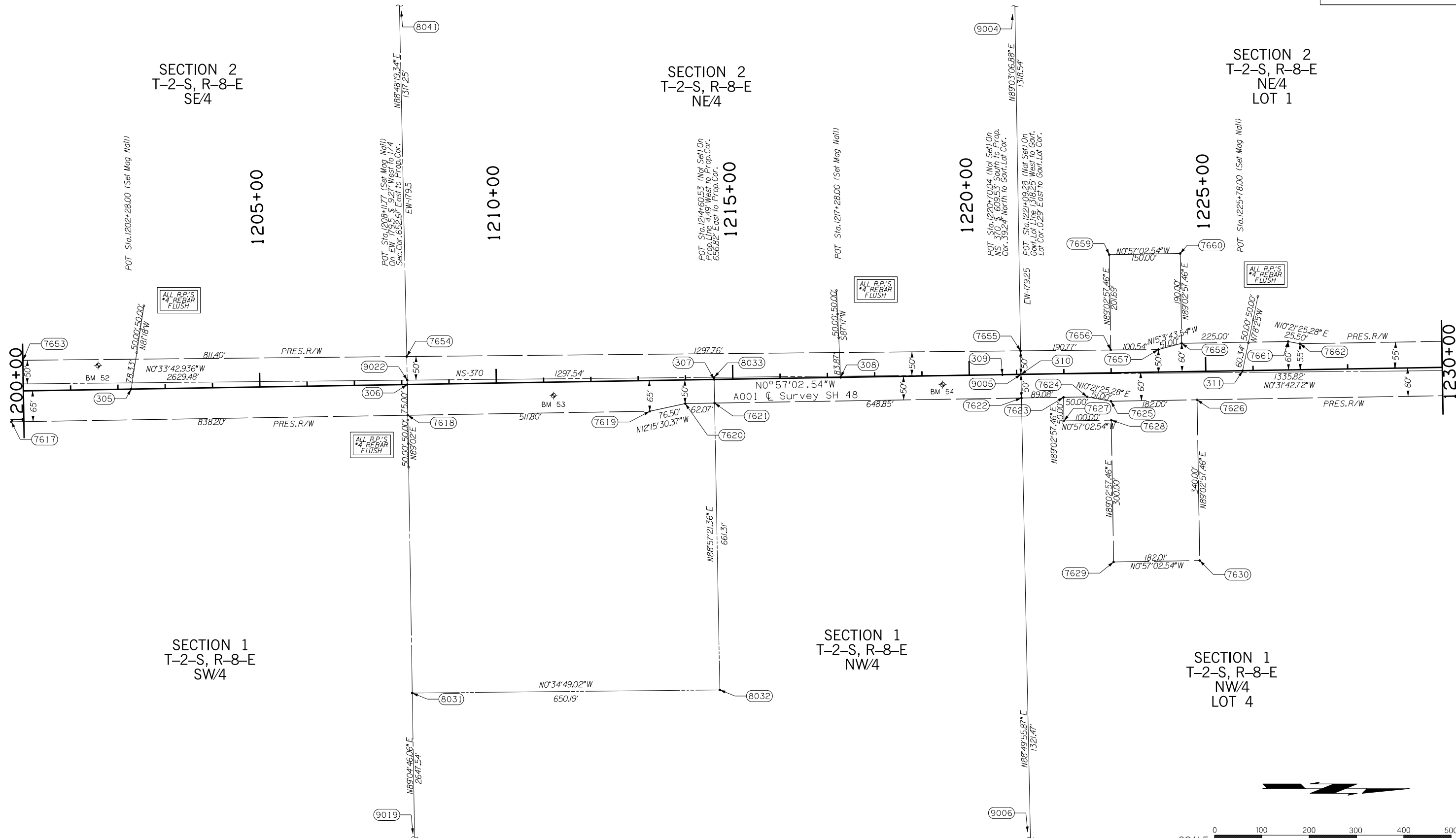
SECTION 2
T-2-S, R-8-E
NE/4

SECTION 2
T-2-S, R-8-E
NE/4
LOT 1

SECTION 1
T-2-S, R-8-E
SW/4

SECTION 1
T-2-S, R-8-E
NW/4

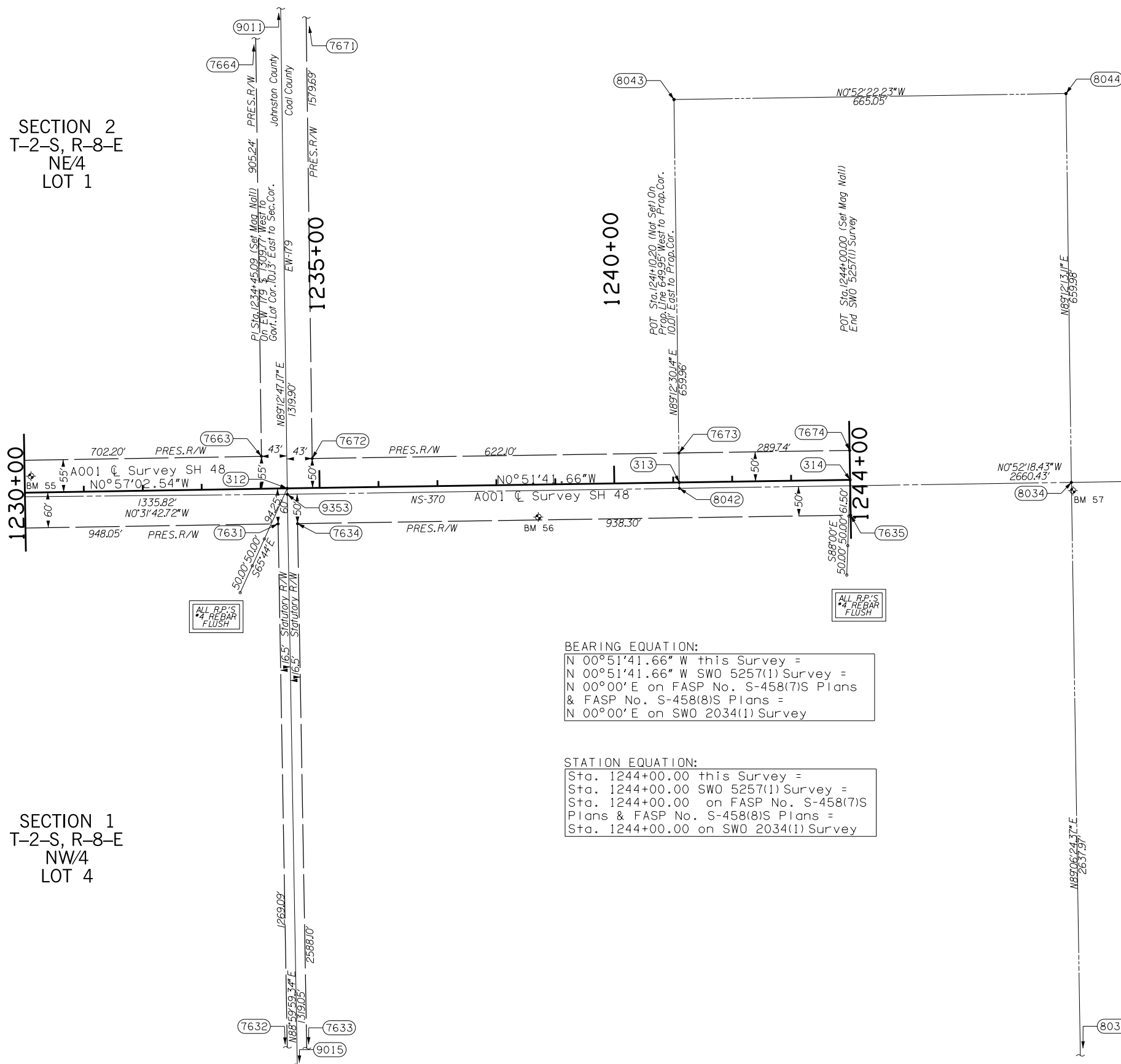
SECTION 1
T-2-S, R-8-E
NW/4
LOT 4



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			

SECTION 2
T-2-S, R-8-E
NE/4
LOT 1

SECTION 35
T-1-S, R-8-E
SE/4

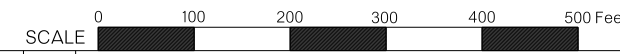


BEARING EQUATION:
 N 00°51'41.66\" W this Survey =
 N 00°51'41.66\" W SW0 5257(1) Survey =
 N 00°00'E on FASP No. S-458(7)S Plans
 & FASP No. S-458(8)S Plans =
 N 00°00'E on SW0 2034(1) Survey

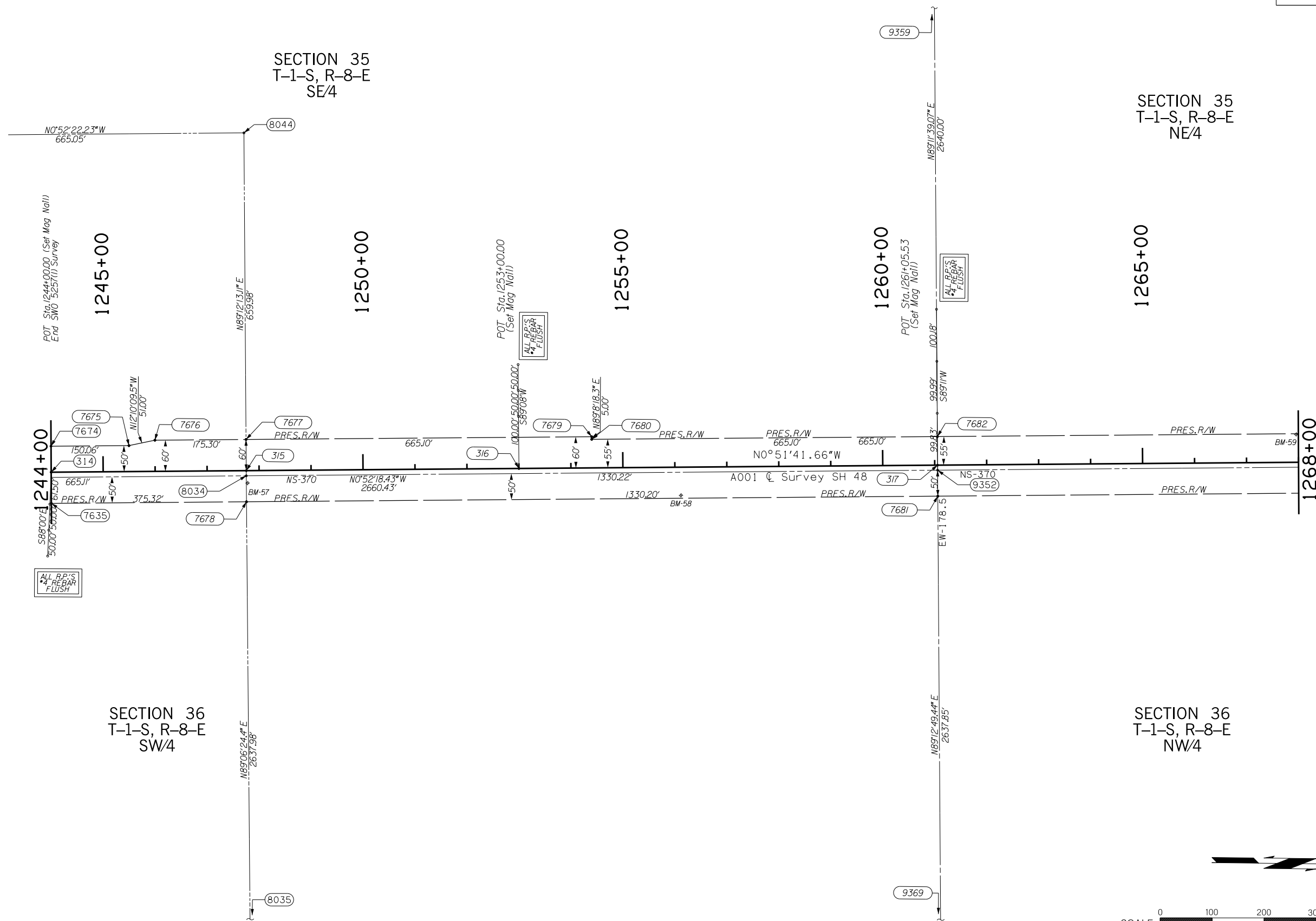
STATION EQUATION:
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 Sta. 1244+00.00 SW0 5257(1) Survey =
 Sta. 1244+00.00 on FASP No. S-458(7)S
 Plans & FASP No. S-458(8)S Plans =
 Sta. 1244+00.00 on SW0 2034(1) Survey

SECTION 1
T-2-S, R-8-E
NW/4
LOT 4

SECTION 36
T-1-S, R-8-E
SW/4



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SW0 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S011			



SCALE 0 100 200 300 400 500 Feet

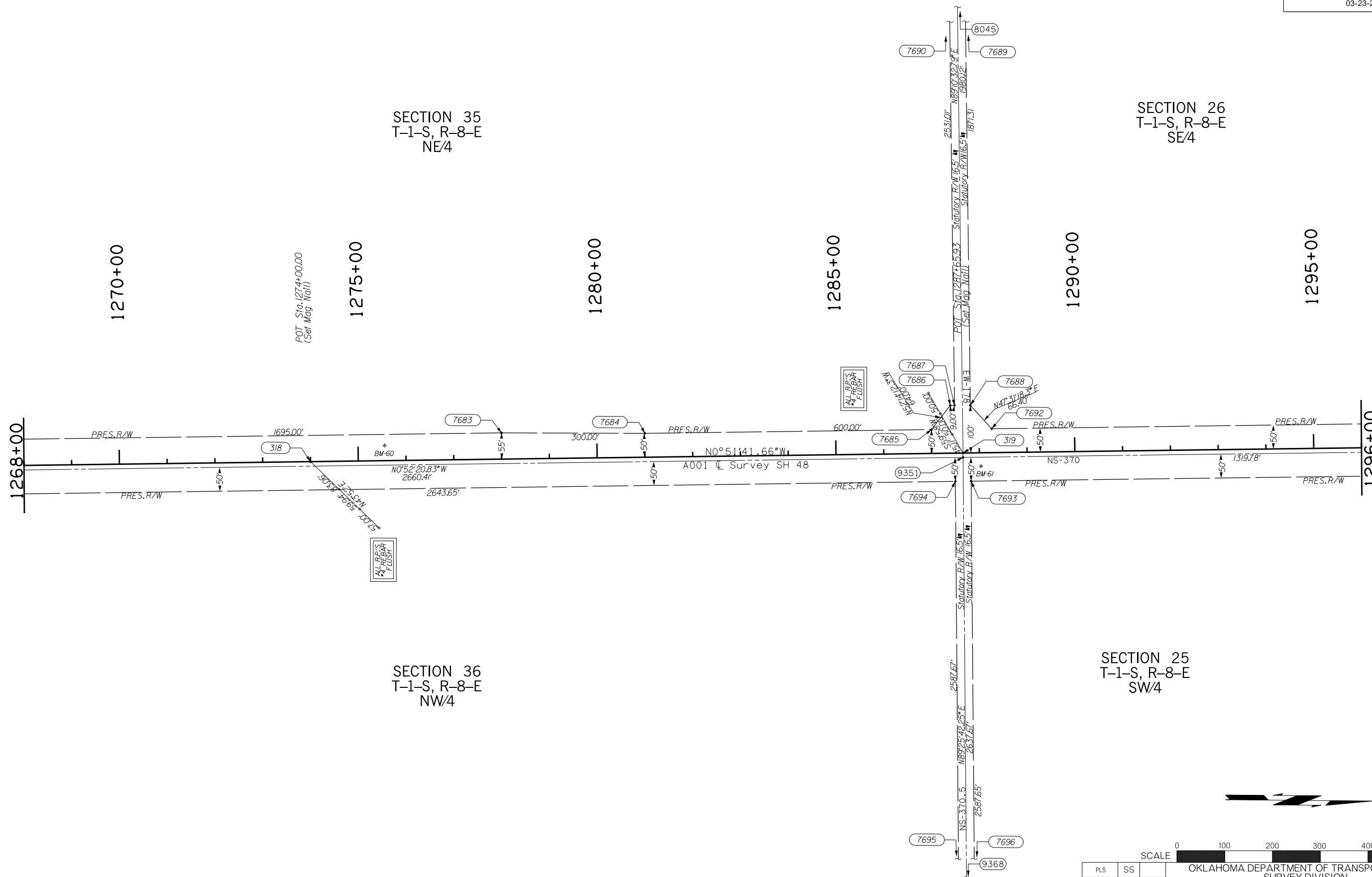
PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S012			

SECTION 35
T-1-S, R-8-E
NE/4

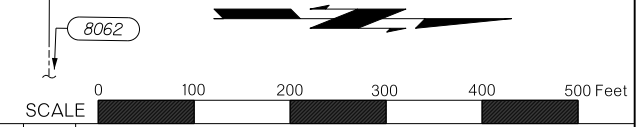
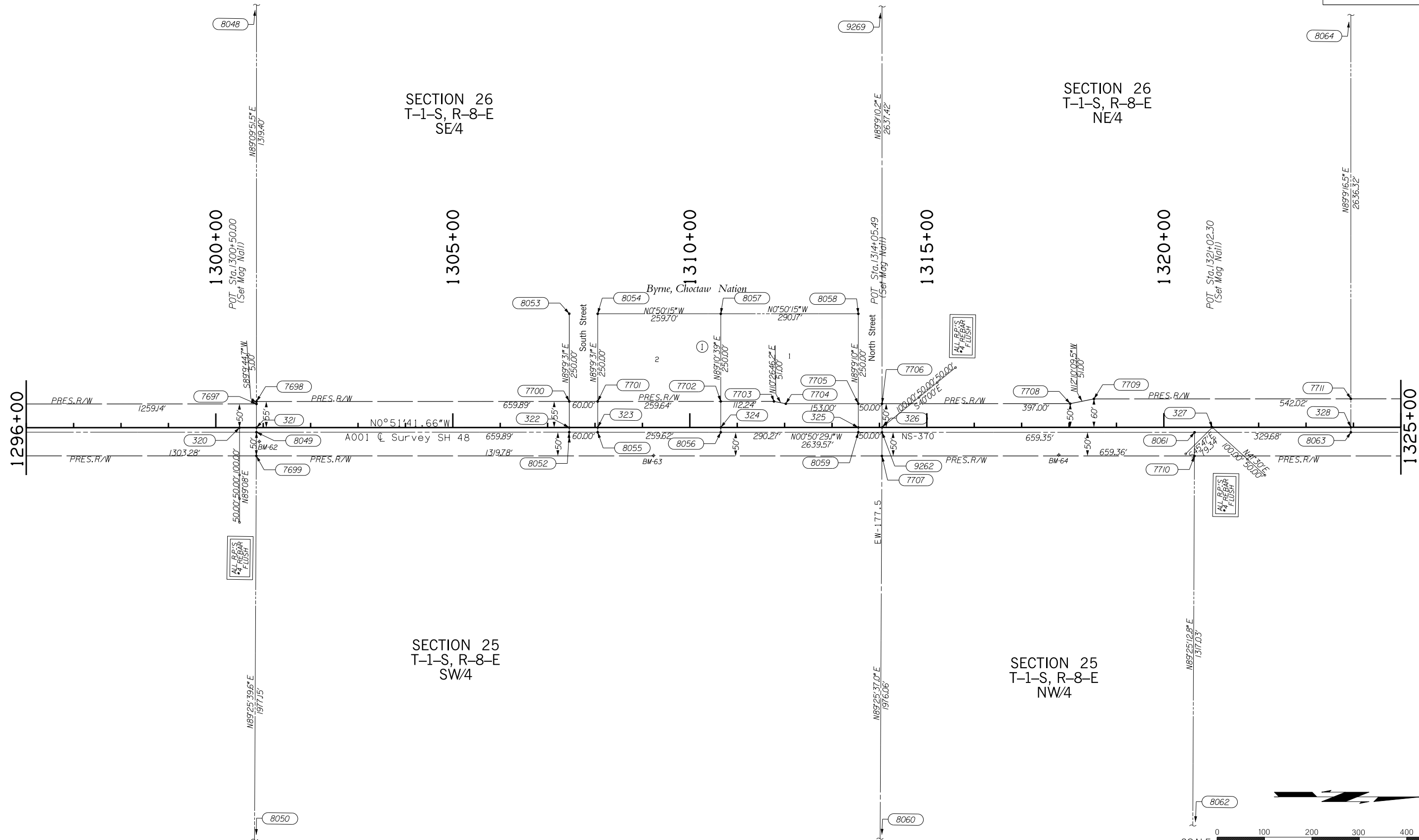
SECTION 26
T-1-S, R-8-E
SE/4

SECTION 36
T-1-S, R-8-E
NW/4

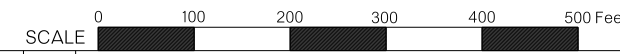
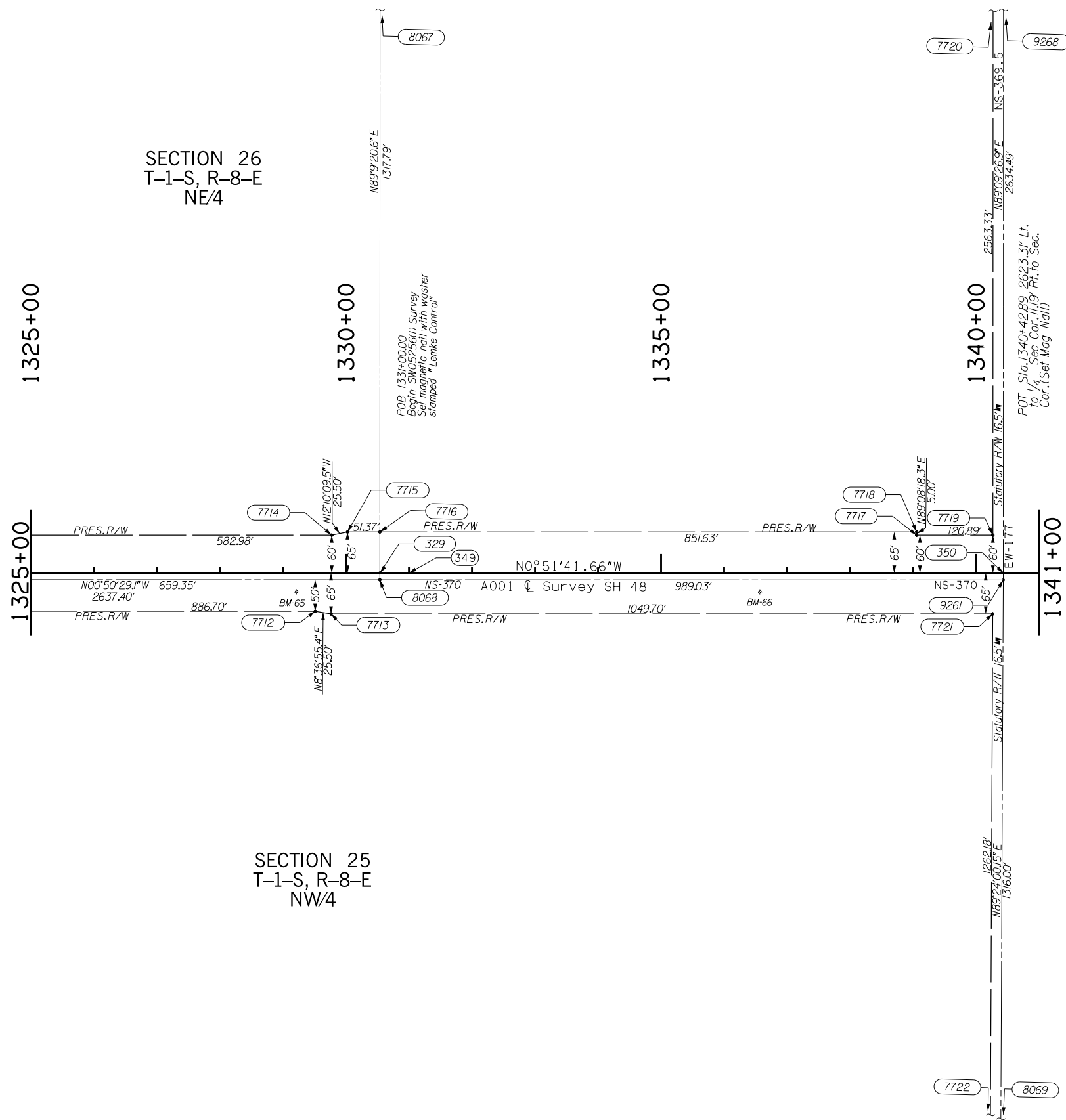
SECTION 25
T-1-S, R-8-E
SW/4



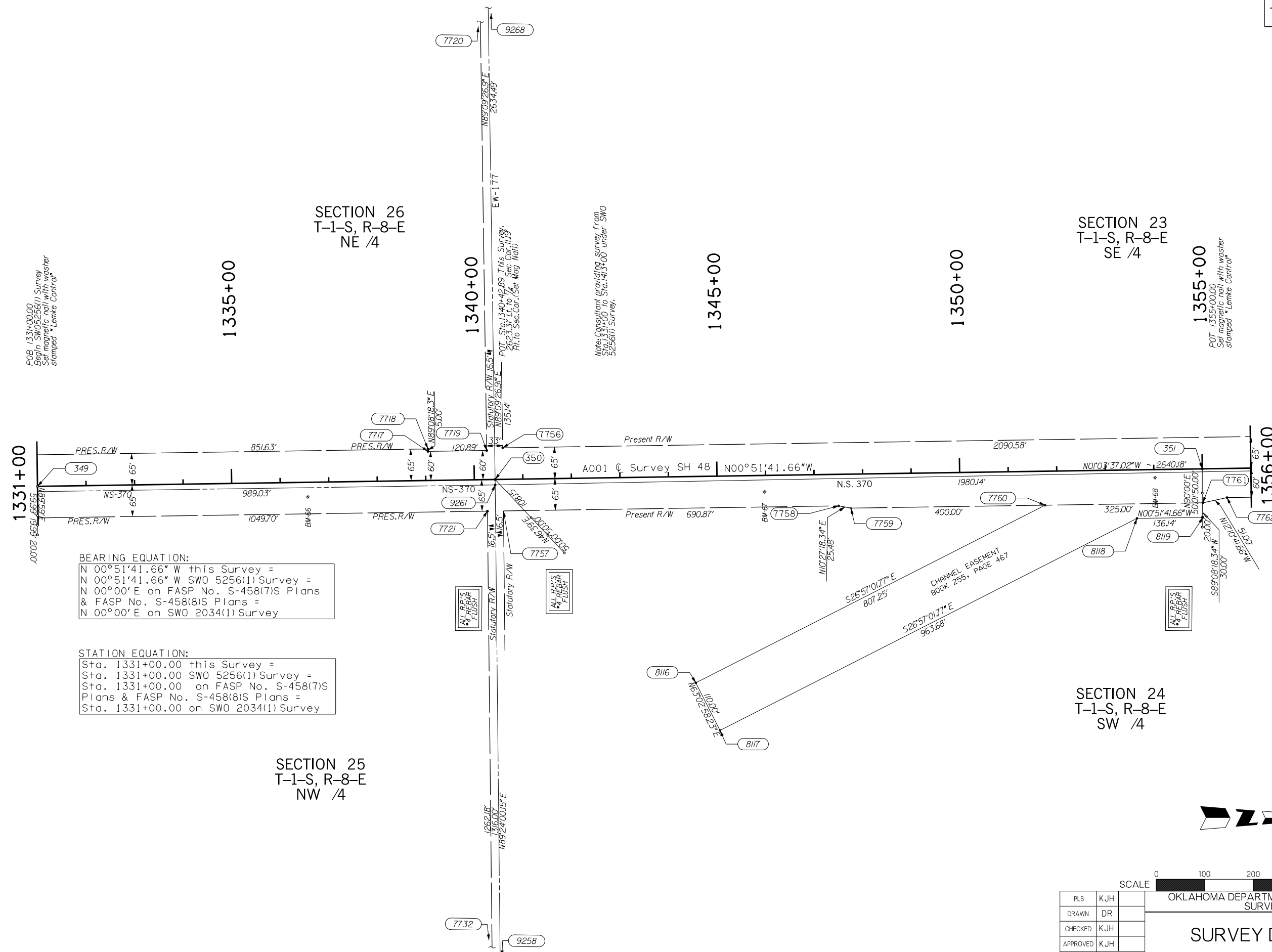
PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S013			



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			SWO 5159(1)
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S014			



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			



BEARING EQUATION:
 N 00°51'41.66" W this Survey =
 N 00°51'41.66" W SWO 5256(1) Survey =
 N 00°00' E on FASP No. S-458(7)S Plans
 & FASP No. S-458(8)S Plans =
 N 00°00' E on SWO 2034(1) Survey

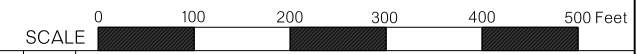
STATION EQUATION:
 Sta. 1331+00.00 this Survey =
 Sta. 1331+00.00 SWO 5256(1) Survey =
 Sta. 1331+00.00 on FASP No. S-458(7)S
 Plans & FASP No. S-458(8)S Plans =
 Sta. 1331+00.00 on SWO 2034(1) Survey

SECTION 25
T-1-S, R-8-E
NW 1/4

SECTION 26
T-1-S, R-8-E
NE 1/4

SECTION 24
T-1-S, R-8-E
SW 1/4

SECTION 23
T-1-S, R-8-E
SE 1/4



PLS		KJH	
DRAWN		DR	
CHECKED		KJH	
APPROVED		KJH	
CREW		PR/DB	
COUNTY		COAL	
HIGHWAY		SH 48	
STATE JOB NO.		31047(04)	
SHEET NO.		S016	

SURVEY DATA SHEET

SWO 5159(1)

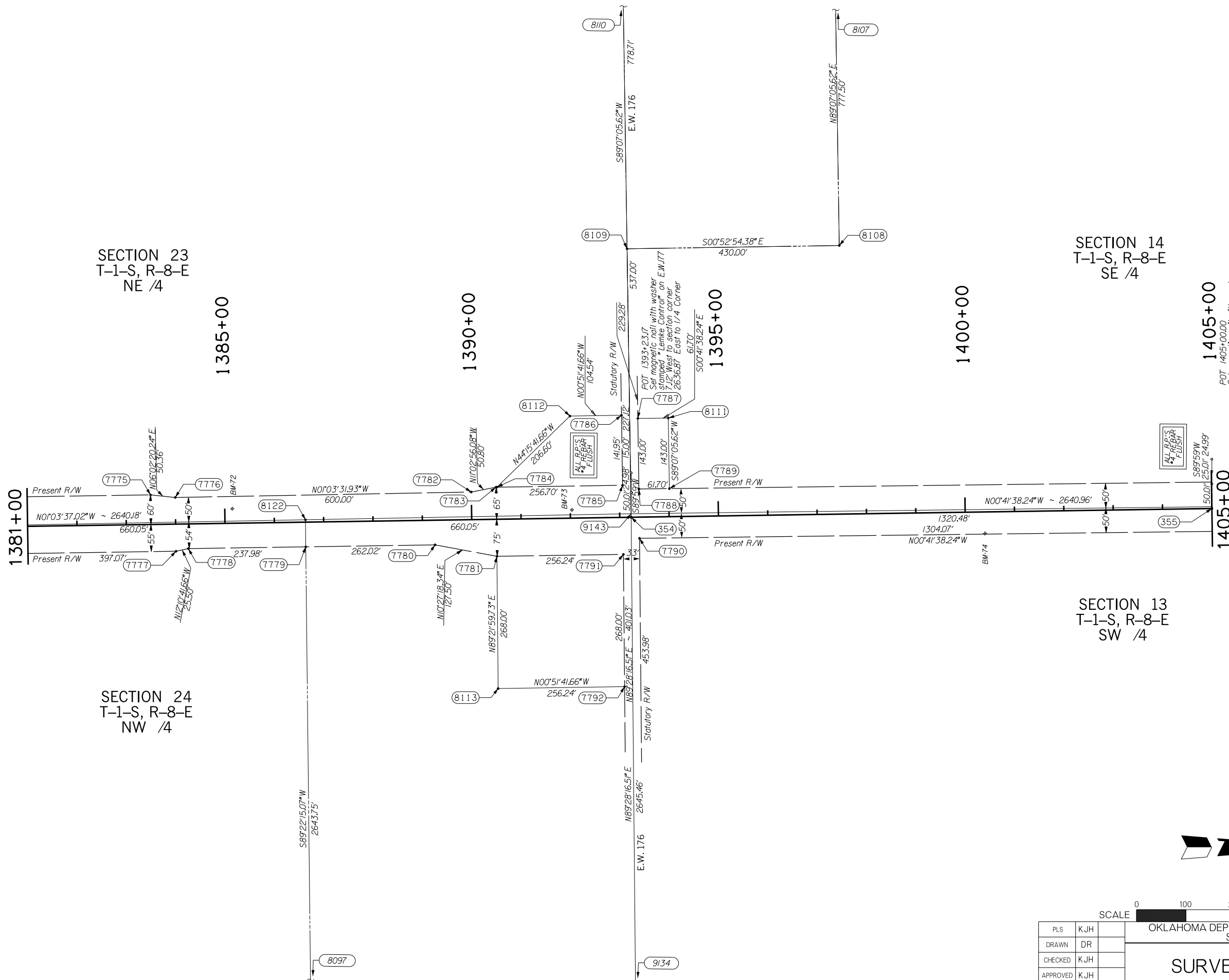
OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SECTION 23
T-1-S, R-8-E
NE 1/4

SECTION 14
T-1-S, R-8-E
SE 1/4

SECTION 24
T-1-S, R-8-E
NW 1/4

SECTION 13
T-1-S, R-8-E
SW 1/4



POT 1405+00.00
Set magnetic nail with washer
stamped "Lemke Control"

ALL R.P.'S
TO BE REBAR
FLUSH

ALL R.P.'S
TO BE REBAR
FLUSH



SCALE 0 100 200 300 400 500 Feet

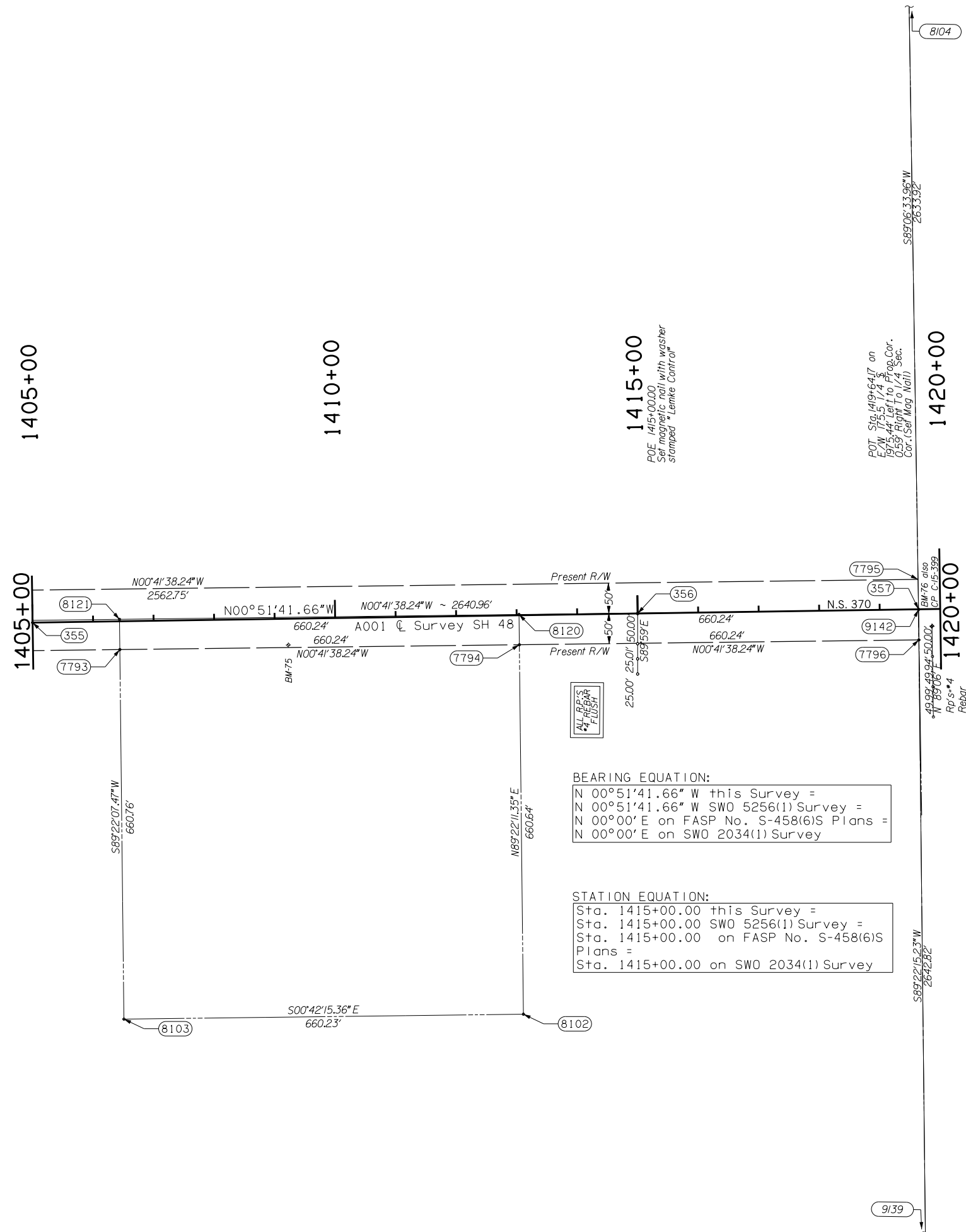
PLS	KJH		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DR		
CHECKED	KJH		
APPROVED	KJH		
CREW	PR/DB		
COUNTY COAL HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S018			SURVEY DATA SHEET SWO 5159(I)

SECTION 14
T-1-S, R-8-E
SE 1/4

SECTION 14
T-1-S, R-8-E
NE 1/4

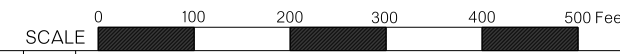
SECTION 13
T-1-S, R-8-E
SW 1/4

SECTION 13
T-1-S, R-8-E
NW 1/4

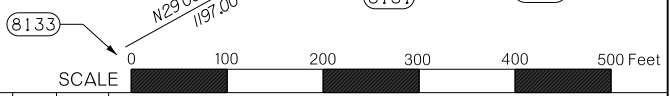
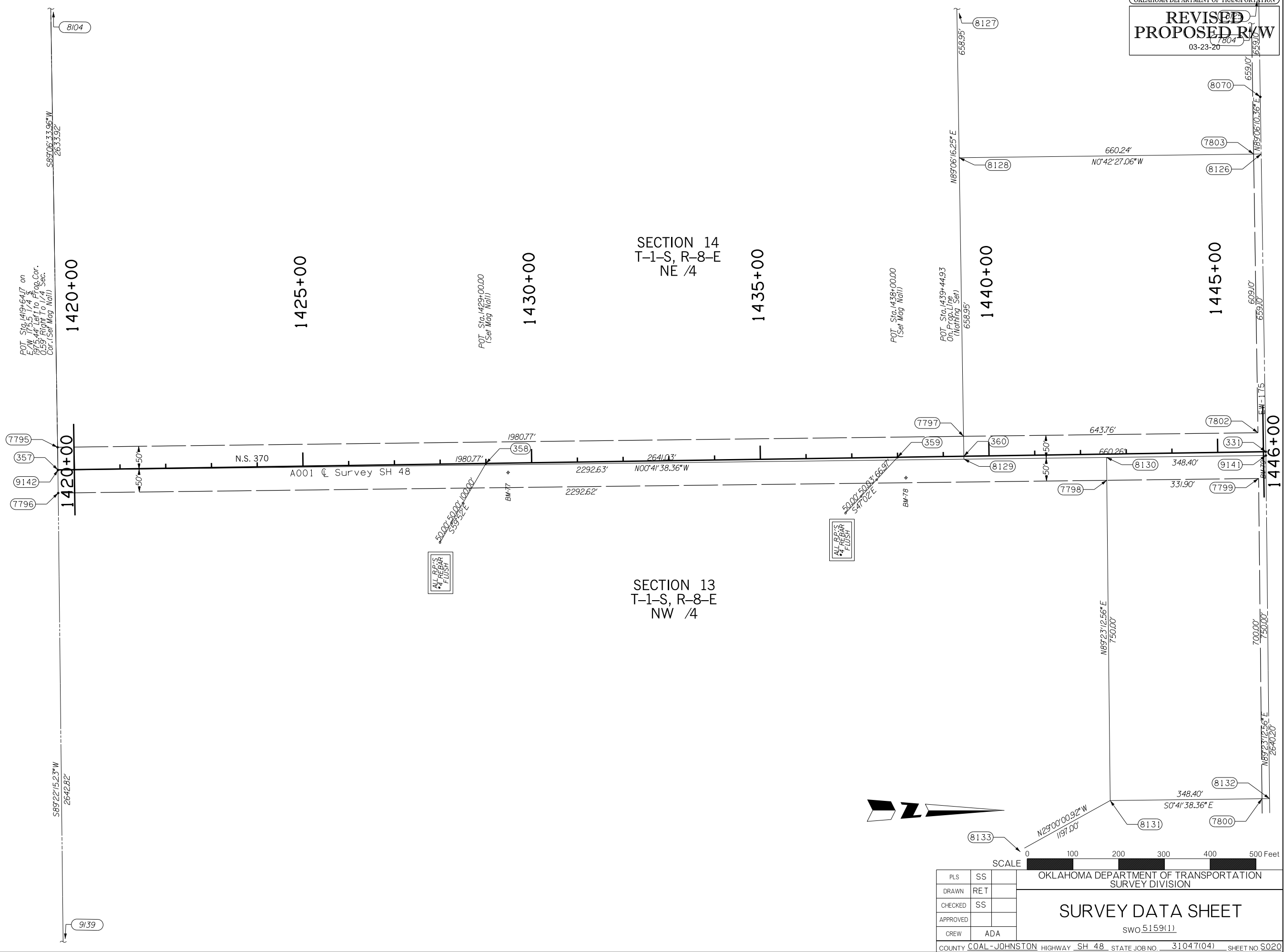


BEARING EQUATION:
 N 00°51'41.66\" W this Survey =
 N 00°51'41.66\" W SW0 5256(1) Survey =
 N 00°00' E on FASP No. S-458(6)S Plans =
 N 00°00' E on SW0 2034(1) Survey

STATION EQUATION:
 Sta. 1415+00.00 this Survey =
 Sta. 1415+00.00 SW0 5256(1) Survey =
 Sta. 1415+00.00 on FASP No. S-458(6)S Plans =
 Sta. 1415+00.00 on SW0 2034(1) Survey



OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
SURVEY DATA SHEET	
SWO 5159(1)	
PLS	KJH
DRAWN	DR
CHECKED	KJH
APPROVED	KJH
CREW	PR/DB

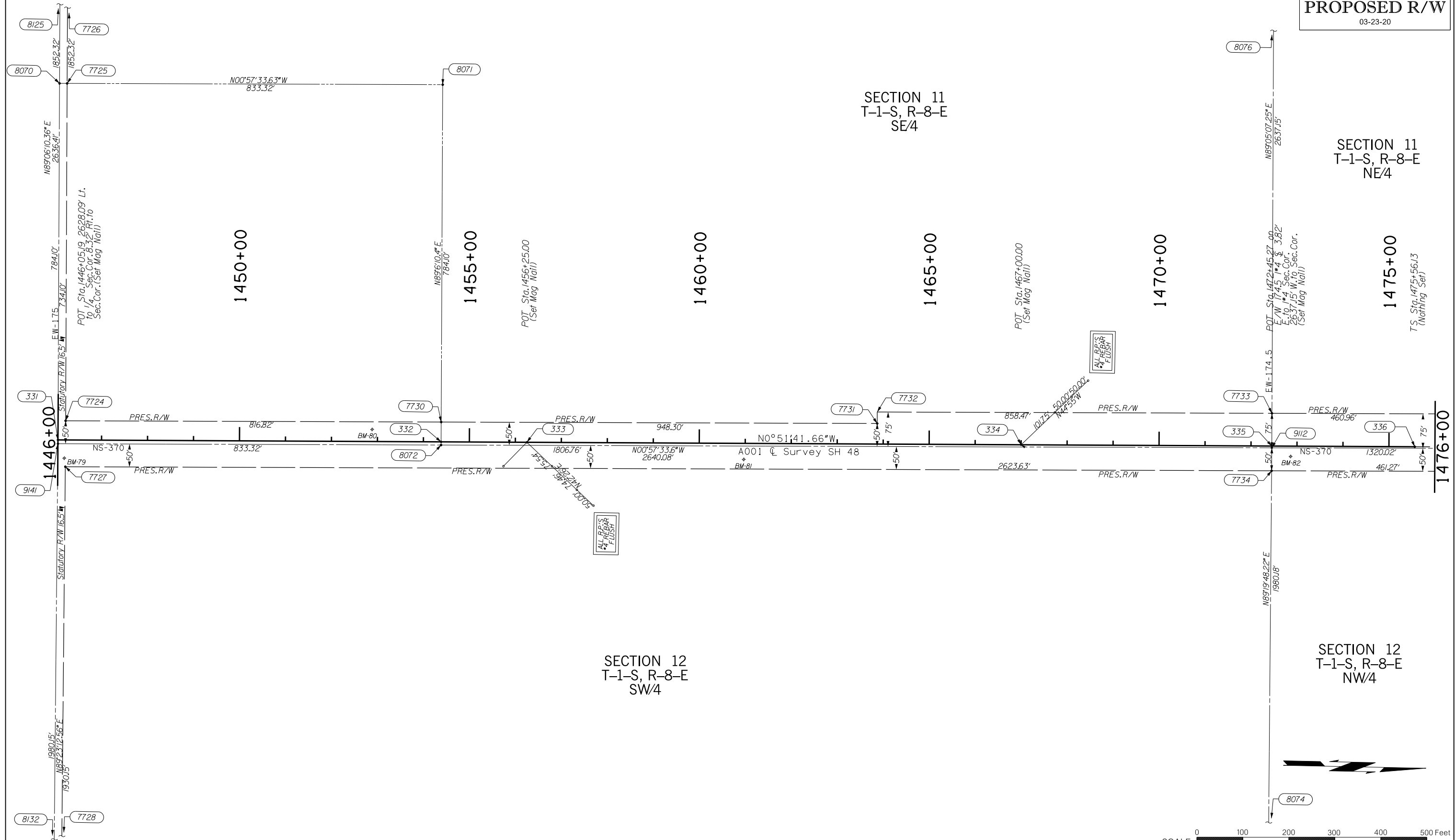


PLS	SS	
DRAWN	RET	
CHECKED	SS	
APPROVED		
CREW	ADA	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
 SURVEY DIVISION

SURVEY DATA SHEET
 SWO 5159(1)

COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S020



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	RET		
CHECKED	SS		
APPROVED			
CREW	ADA		
SCALE			SURVEY DATA SHEET SWO 5159(1)
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S021			

SECTION 11
T-1-S, R-8-E
NE/4

SECTION 12
T-1-S, R-8-E
NW/4

SECTION 1
T-1-S, R-8-E
W/2 of SW/4

SECTION 1
T-1-S, R-8-E
E/2 of SW/4

SECTION 12
T-1-S, R-8-E
NW/4

SECTION 12
T-1-S, R-8-E
NW/4

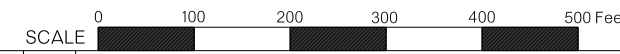
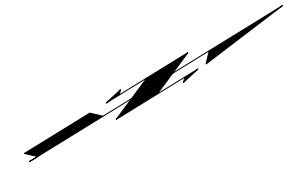
CURVE DATA
Curve-1
P.I. Sta. 1485+43.99
X= 2443301.5314
Y= 423664.1238
Δ= 39°36'51.17" Rt.
D= 3°00'00.00"
T= 687.859'
L= 1320.47'
R= 1909.859'
E= 120.09'
C N 23°26'43.93" E

SPIRAL CURVE DATA
Curve-2
SPI Sta. 1492+76.66
X= 2443341.4286
Y= 424237.9984
Angle= 4°30'00.00" Rt.
Length= 300.00'
Li= 200.06'
Lc= 100.06'
Xs= 299.92'
Ys= 7.89'
F= 1.96
K= 149.97

BEARING EQUATION:
N 47°45'09.50" E this survey =
N 48°38' E on FASP No. S-458(6)S Plans =
N 48°38' E on SW0 2034(1) Survey

STATION EQUATION:
Sta. 1500+47.55 this survey =
Sta. 1504+44.7 on FASP No. S-458(6)S
Plans =
Sta. 1504+44.7 on SW0 2034(1) Survey

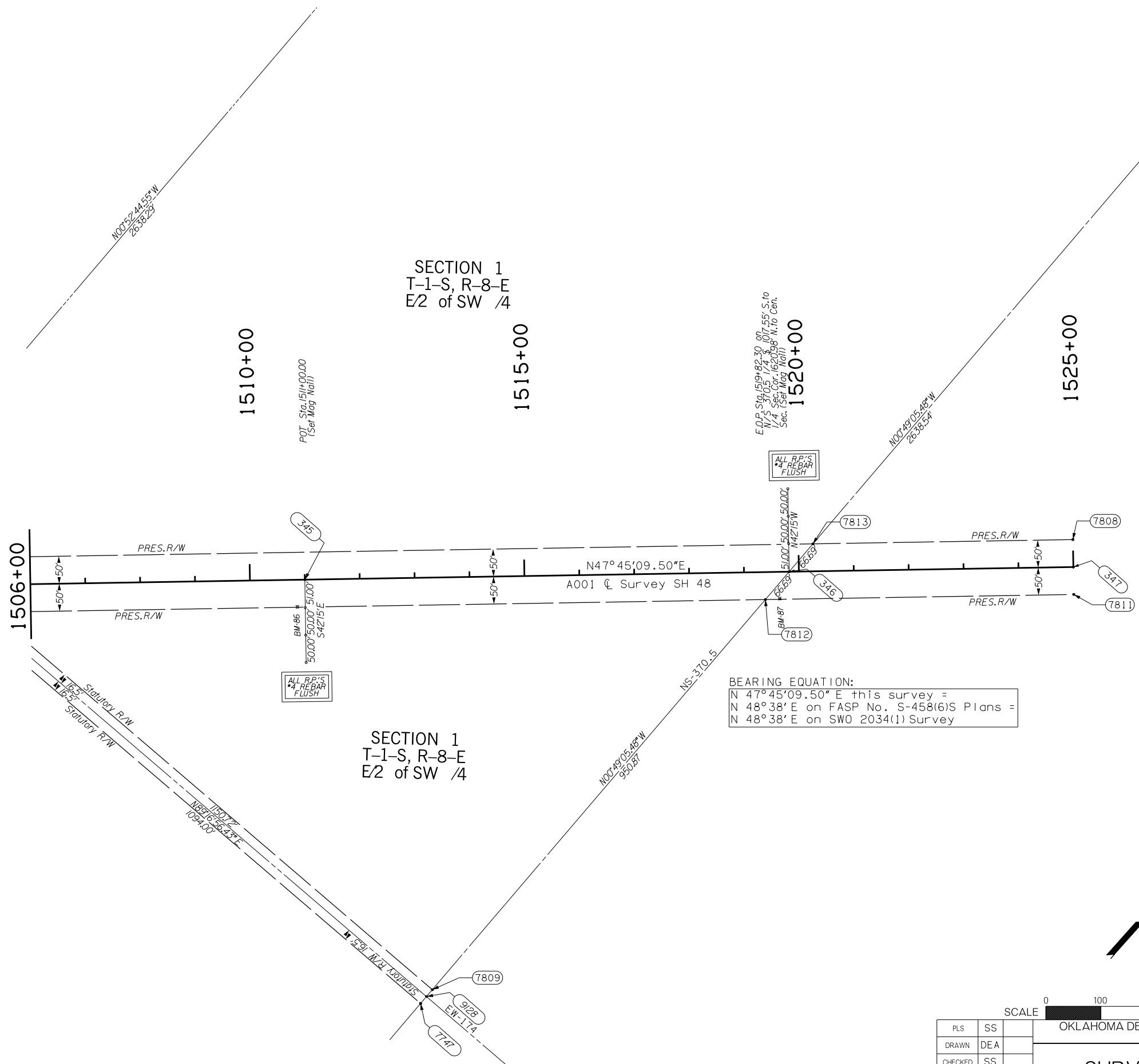
SPIRAL CURVE DATA
Curve-1
SPI Sta. 1477+56.20
X= 2443295.5300
Y= 422817.7899
Angle= 4°30'00.00" Rt.
Length= 300.00'
Li= 200.06'
Lc= 100.06'
Xs= 299.92'
Ys= 7.89'
F= 1.96
K= 149.97



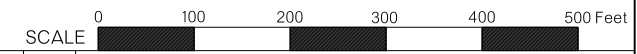
PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	DE A		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S022			

SECTION 1
T-1-S, R-8-E
W2 of SW ¼

SECTION 1
T-1-S, R-8-E
E2 of SW ¼



BEARING EQUATION:
 N 47°45'09.50" E this survey =
 N 48°38' E on FASP No. S-458(6)S Plans =
 N 48°38' E on SW0 2034(1) Survey



OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION	
SURVEY DATA SHEET	
SW0 5159(1)	
PLS	SS
DRAWN	DE A
CHECKED	SS
APPROVED	
CREW	ADA

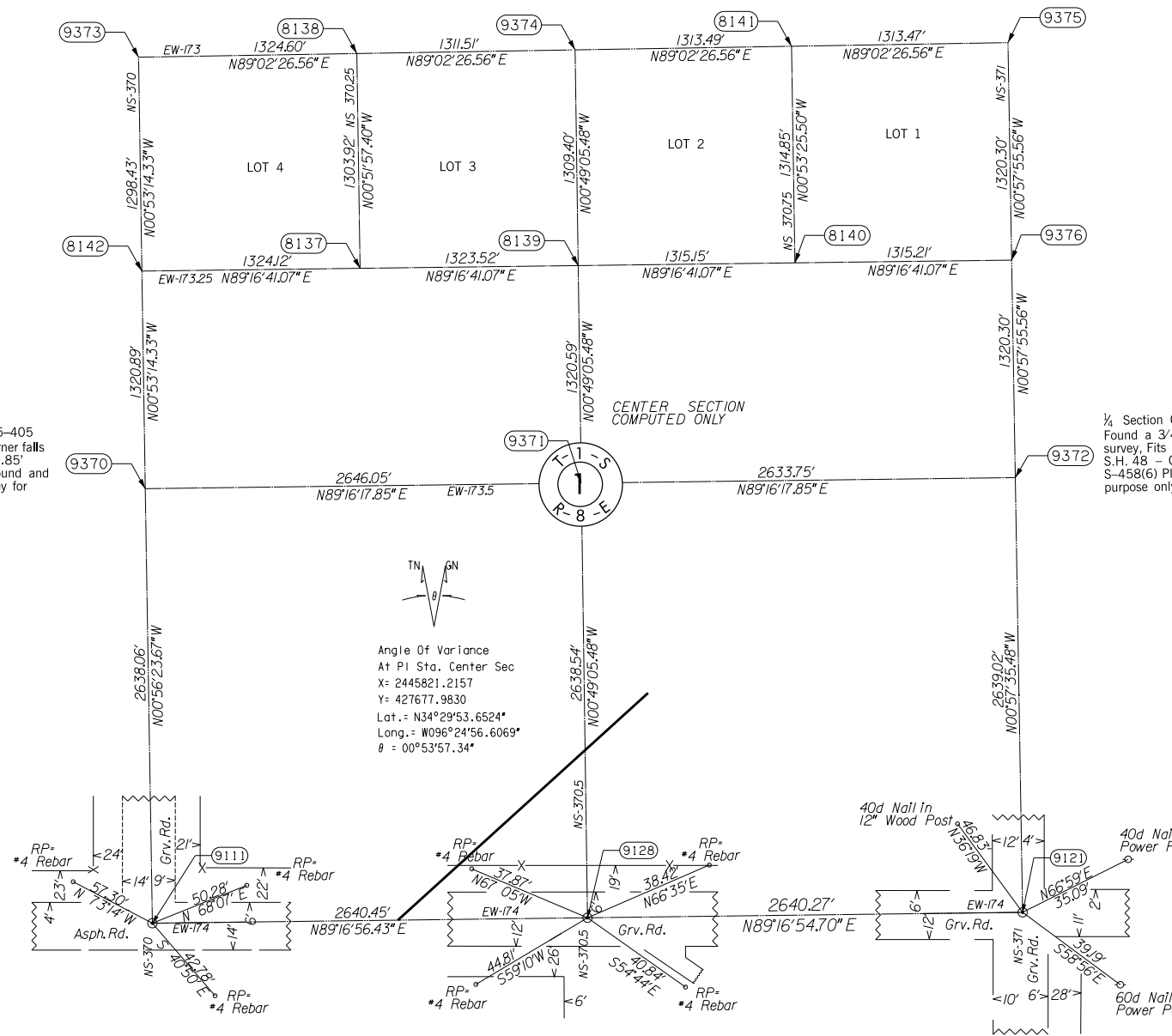
Closing Section Corner - ODOT Monument No. C-15-406 Set a 1/2" iron pin W/Cap RPLS #1521 This Corner was set on line and at the Gov't. 3.96' West of Standard Cor. Fnd. in place - information shown was taken from SW05214(1) survey for information purpose only.

Closing Section Corner - ODOT Monument No. C-15-408 Set a 1/2" iron pin W/Cap RPLS #1521 This Corner was set on The Intersection of the mean of the Sec. Line Bearing East and West and on Line with the Standard 1#4 Cor. 13.11' West and Township Cor. Fnd. in place 2629.97' East - corner established under SW05214(1) Survey and shown on this survey for information purpose only.

Section Corner - ODOT Monument No. C-15-265 Found #4 Rebar w /ODOT plastic cap set by Mr. Byerly PLS# 1554 filed 11-14-2006. Mr. Byerly stated this corner was established from SWO 2034(1) S.H. 48 Coal County, 1955 survey and F.A.S.P. No. S-458(4)(5)(6)-S 1956 plans. The corner was set on line and at a plans prorated distance from the master P.I. found in place South and from the P.I. found in place to the North. Fits within 0.06' of 1" pipe found in place 1 mile West that was used under SWO 2034(1) survey. Found a R.R. Spike set by unknown parties 0.73' North and 0.35' West of the corner set this survey. 5280.06' west to section corner - this corner information was taken from SW05214(1) Survey for information purpose only.

1/4 Section Corner - ODOT Monument No. C-15-405 Fnd. a 1/2" iron pin W/Cap LS #508 This Corner falls 1.21' west of line between Sec. Cors. and falls 1.85' South of Gov. Prorated Dist. between Cors. - found and used under SW05214(1) survey used this survey for information purpose only.

1/4 Section Corner - ODOT Monument No. C-15-410 Found a 3/4" iron pin in place under SW05214(1) survey, Fits existing evidence from SW02034(1) - S.H. 48 - Coal County - 1955 survey and FASP S-458(6) Plans used this survey for information purpose only.



Angle Of Variance At PI Sta. Center Sec X= 2445821.2157 Y= 427677.9830 Lat.= N34°29'53.6524" Long.= W096°24'56.6069" θ = 00°53'57.34"

Section Corner - ODOT Monument No. C-15-404 Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. Also found PK nail 2.5' west and 8.7' south of corner as shown on corner record filed by Fred Anthony Selensky, PLS 1860.

1/4 Section Corner - ODOT Monument No. C-15-407 Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. This monument appears to match the location shown on corner record filed by Fred Anthony Selensky, PLS 1860.

Section Corner - ODOT Monument No. C-15-409 Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. Also found 1/2" iron pin 2.2' west and 7.3' south of corner as shown on corner record filed by David L. Page, Jr., PLS 1566.



Table with columns for PLS, SS, DRAWN, DE A, CHECKED, SS, APPROVED, CREW, ADA. Includes Oklahoma Department of Transportation Survey Division logo and 'SURVEY DATA SHEET' title.

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

1/4 Section Corner - ODOT Monument No. C-15-448
Found and accepted railroad spike as shown on corner record filed by Floyd Drannon, PLS 1503.

Section Corner - ODOT Monument No. C-15-447
Found and accepted #3 rebar. This monument fits surrounding collateral evidence. Also found bent #3 rebar 15.7' south and 12.8' east of corner. There was no corner record on file.

Section Corner - ODOT Monument No. C-15-404
Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. Also found PK nail 2.5' west and 8.7' south of corner as shown on corner record filed by Fred Anthony Selensky, PLS 1860.

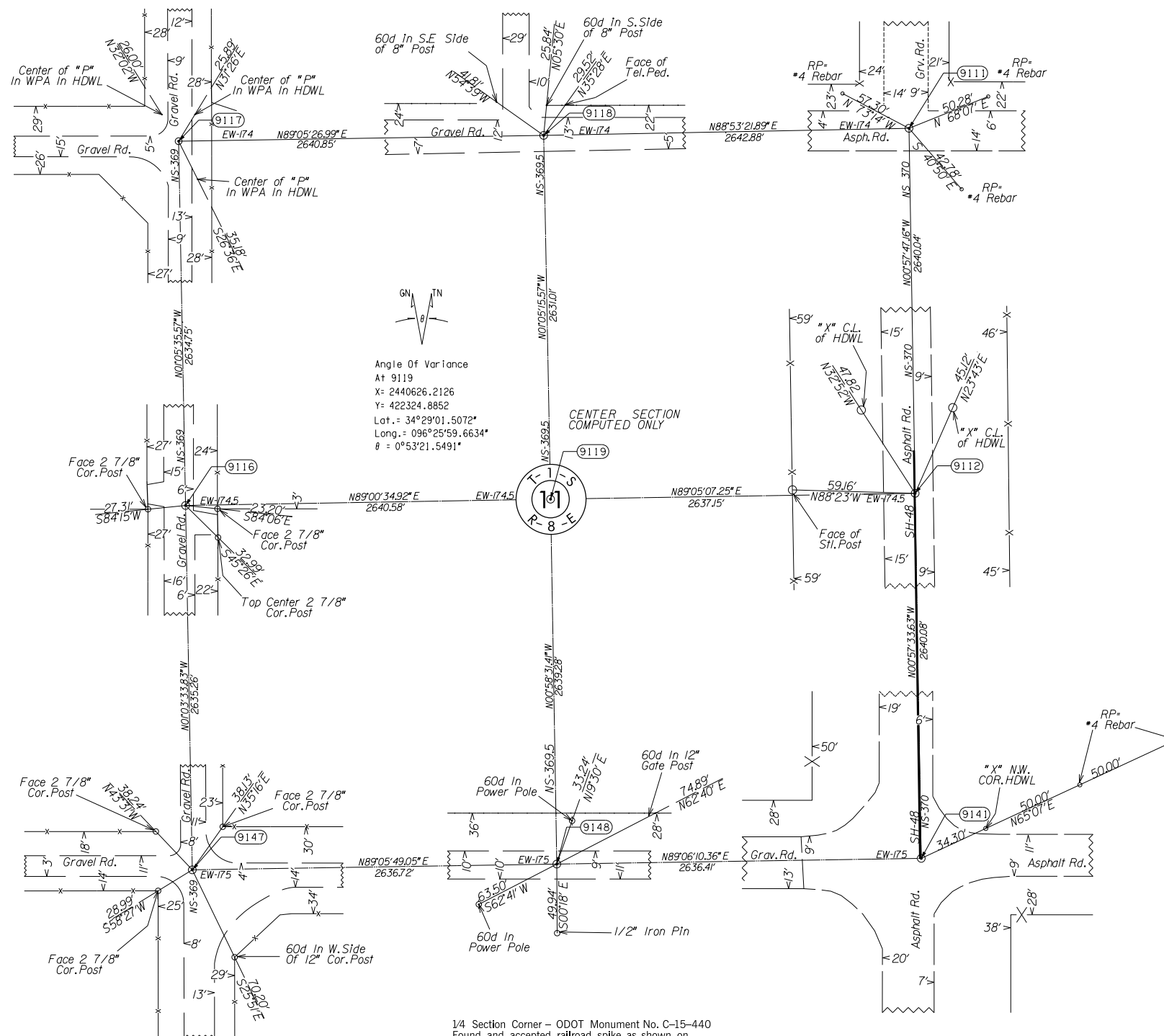
1/4 Section Corner - ODOT Monument No. C-15-444
Set #4 rebar with cap PLS 1663. This monument was re-established at the location shown on corner record filed by Floyd Drannon, PLS 1503 using existing references.

1/4 Section Corner - ODOT Monument No. C-15-445
Found and accepted mag nail. This monument fits well with location shown on FAS-S-456(6)S plans. Also found mag nail 4.5' south and 1.3' west of corner as shown on corner record filed by Fred Anthony Selensky, PLS 1860 and by Floyd Drannon, PLS 1503.

Section Corner - ODOT Monument No. C-15-439
Found and accepted #4 rebar as shown on corner record filed Bill J. Casey, PLS 1122.

Section Corner - ODOT Monument No. C-15-441
Found and accepted railroad spike as shown on corner record filed Bill J. Casey, PLS 1122.

1/4 Section Corner - ODOT Monument No. C-15-440
Found and accepted railroad spike as shown on corner record filed by Floyd Drannon, PLS 1503.



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S025			

Section Corner - ODOT Monument No. C-15-404
Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. Also found PK nail 2.5' west and 8.7' south of corner as shown on corner record filed by Fred Anthony Selensky, PLS 1860.

1/4 Section Corner - ODOT Monument No. C-15-407
Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. This monument appears to match the location shown on corner record filed by Fred Anthony Selensky, PLS 1860.

Section Corner - ODOT Monument No. C-15-409
Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey and filed by Robert Uhles, PLS 1512. Also found 1/2" iron pin 2.2' west and 7.5' south of corner as shown on corner record filed by David L. Page, Jr., PLS 1566.

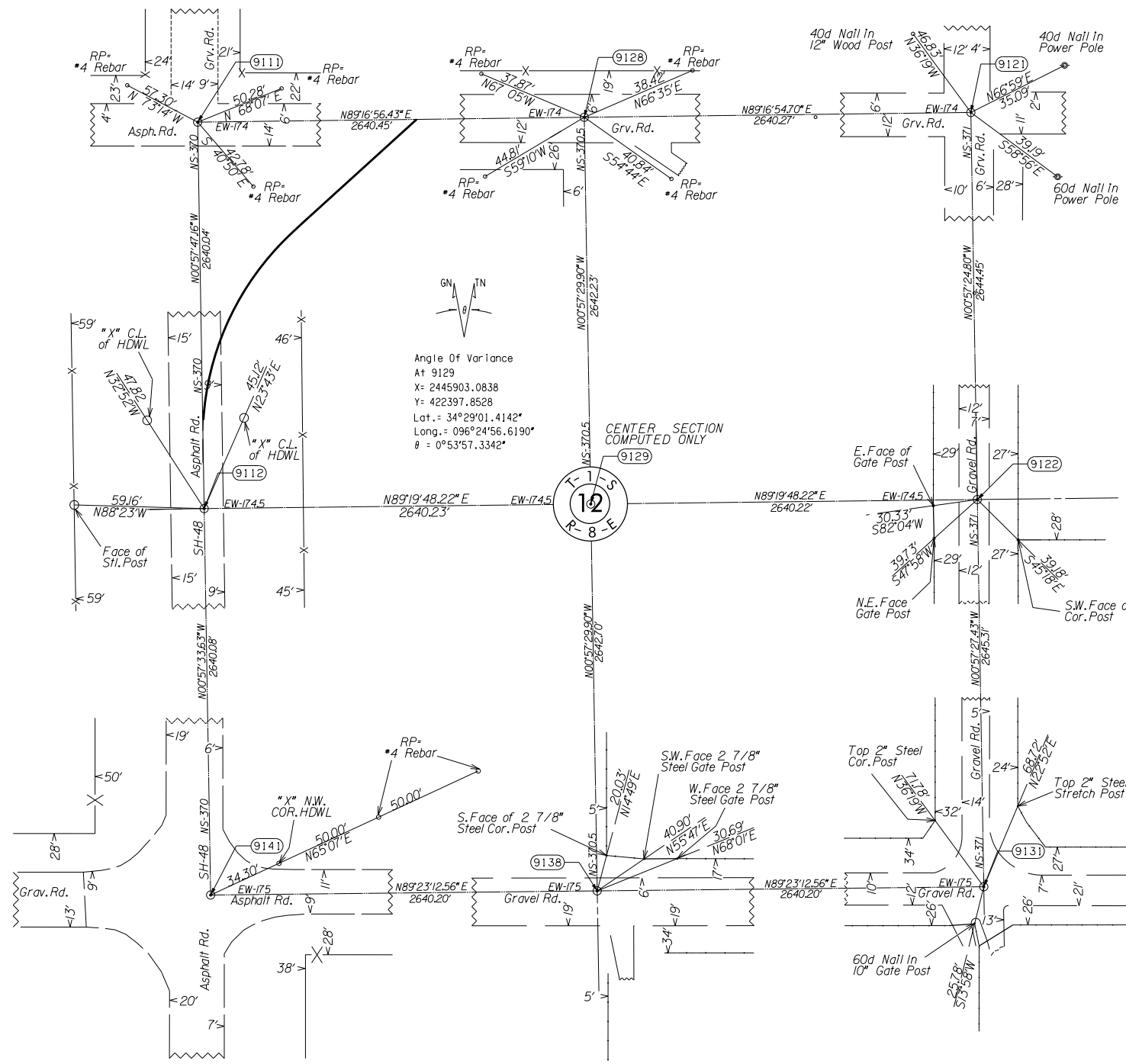
1/4 Section Corner - ODOT Monument No. C-15-445
Found and accepted mag nail. This monument fits well with location shown on FAS-S-458(5) plans. Also found mag nail 4.5' south and 1.3' west of corner as shown on corner record filed by Fred Anthony Selensky, PLS 1860 and by Floyd Drannon, PLS 1503.

1/4 Section Corner - ODOT Monument No. C-15-446
Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey. There was no corner record on file.

Section Corner - ODOT Monument No. C-15-441
Found and accepted railroad spike as shown on corner record filed Bill J. Casey, PLS 1122.

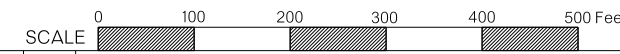
Section Corner - ODOT Monument No. C-15-443
Found and accepted 3/4" iron pin as shown on SWO 2034(1) survey. Also found 5/8" iron pin 9.5' west and 1.0' north of corner as shown on corner record filed by Cole Craig, PLS 1780.

1/4 Section Corner - ODOT Monument No. C-15-442
Set #4 rebar with cap PLS 1663. This monument was re-established at the location shown on SWO 2034(1) survey. There was no corner record on file.



Angle of Variance
At 9129
X = 2445903.0838
Y = 422397.8528
Lat. = 34°29'01.4142"
Long. = 096°24'56.6190"
θ = 0°53'57.3342"

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



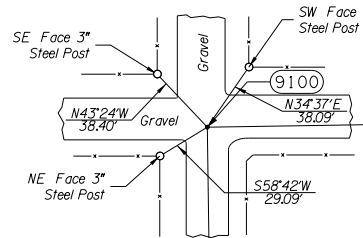
PLS	SS	
DRAWN	EAM	
CHECKED	SS	
APPROVED		
CREW	ADA	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

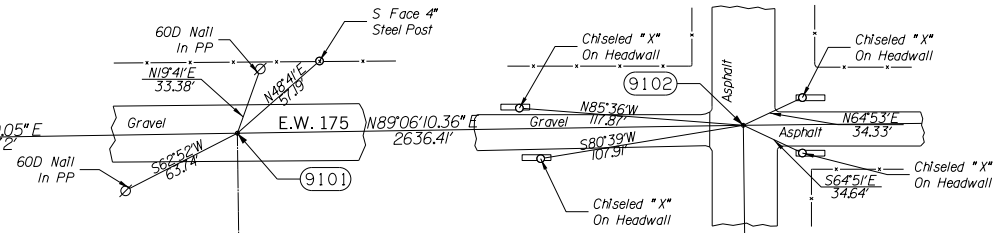
SURVEY DATA SHEET
SWO 5159(1)

COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S026

C-15-439
NW Corner of Section 14, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar as shown on corner record filed by Shawn Smith PLS 1663 and as originally found per corner record filed by Bill J. Casey, PLS 1122. Monument location seems to fit improvements well.



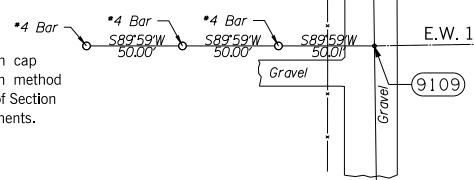
C-15-440
N4 Corner of Section 14, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set in center of road as shown on corner record filed by Shawn Smith, PLS 1663. Railroad spike was originally set by Floyd Drannon, PLS 1503 using single proportionate method as shown on his filed corner record.



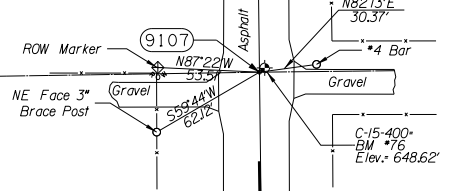
C-15-441
NE Corner of Section 14, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set in pavement as shown on corner record filed by Shawn Smith, PLS 1663 and as originally found per corner record filed by Bill J. Casey, PLS 1122. Location agrees with references and ties to existing plans and survey.

Angle Of Variance
At Center of Section
X = 2,440,705.620
Y = 417,045.494
Lat. = N34°28'09.27656"
Long. = W96°25'59.69380"
θ = 00°53'21.53"

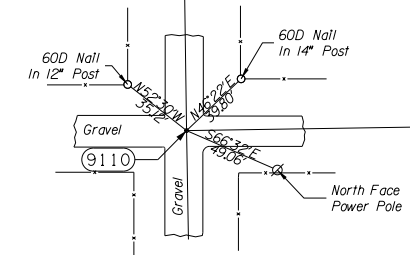
C-15-485
W4 Corner Section 14, T-1-S, R-8-E, I.M.
Nothing found at location. Set a #4 bar with cap stamped *CA 6975* using single proportion method between the NW Corner and SW Corner of Section 14. Location seems to fit well with improvements.



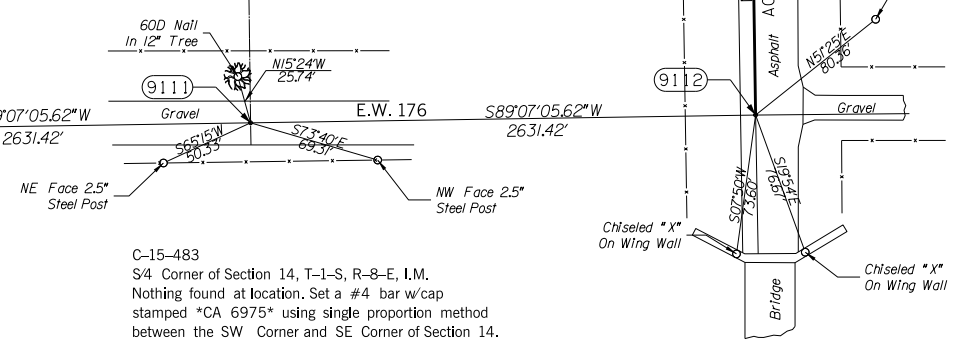
C-15-481
E4 Corner of Section 14, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set in pavement as shown on corner record filed Bill Casey, PLS 1122. This location agrees with references and ties to existing plans and survey.



C-15-484
SW Corner of Section 14, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar with aluminum cap set by Bill J. Casey as shown on his filed corner record. He had found and replaced an existing 40d nail in the gravel intersection set by unknown party. Location seems to fit well with surrounding improvements.

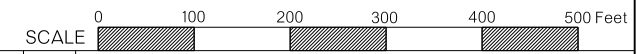


C-15-482
SE Corner of Section 14, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set by Bill J. Casey as shown on his filed corner record. He stated he re-established this location using found ODOT evidence per SWO 2034(1). This location agrees with references and ties to existing plans and survey.



C-15-483
S4 Corner of Section 14, T-1-S, R-8-E, I.M.
Nothing found at location. Set a #4 bar w/cap stamped *CA 6975* using single proportion method between the SW Corner and SE Corner of Section 14. Location in between fences running east-west and in gravel road.

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



PLS	KJH	
DRAWN	DR	
CHECKED	KJH	
APPROVED	KJH	
CREW	PR/DB	
OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION		
SURVEY DATA SHEET		
SWO 5159(1)		
COUNTY	COAL	HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S027



C-15-441
NW Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set in pavement as shown on corner record filed by Shawn Smith, PLS 1663 and as originally found per corner record filed by Bill J. Casey, PLS 1122. Location agrees with references and ties to existing plans and survey.

C-15-481
W/4 Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set in pavement as shown on corner record filed Bill Casey, PLS 1122. This location agrees with references and ties to existing plans and survey.

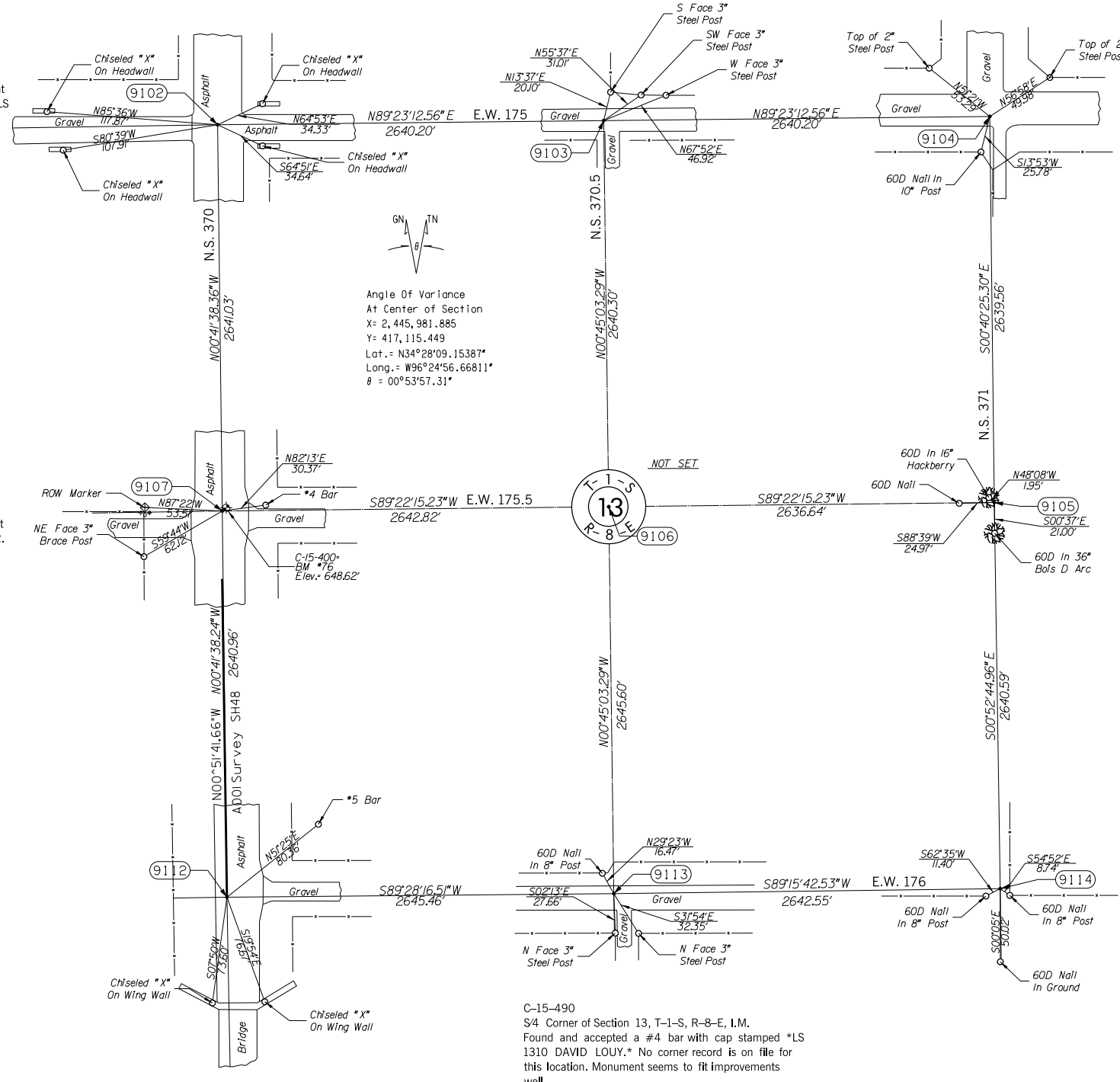
C-15-482
SW Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set by Bill J. Casey as shown on his filed corner record. He stated he re-established this location using found ODOT evidence per SWO 2034(1). This location agrees with references and ties to existing plans and survey.

C-15-442
N4 Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted #4 bar with cap PLS 1663 as shown on corner record filed by Shawn Smith, PLS 1663. He re-established this location using SWO 2034(1) Survey. Also found a railroad spike 5.13' East and 2.35' South of location.

C-15-443
NE Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a #6 bar as shown on corner record filed by Shawn Smith, PLS 1663. Also found a #5 bar 9.68' West and 1.03' North of location and as shown on corner record filed by Cole Craige, PLS 1780.

C-15-488
E4 Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar set by Cole Craige as shown on his filed corner record using single proportion method. Also found a 60d nail 1.45' West and 1.30' North of location.

C-15-489
SE Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar as shown on the corner record filed by Cole Craige, PLS 1780. He stated this location was set by using single proportion method along the township line.



C-15-490
S4 Corner of Section 13, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar with cap stamped *LS 1310 DAVID LOUY.* No corner record is on file for this location. Monument seems to fit improvements well.

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

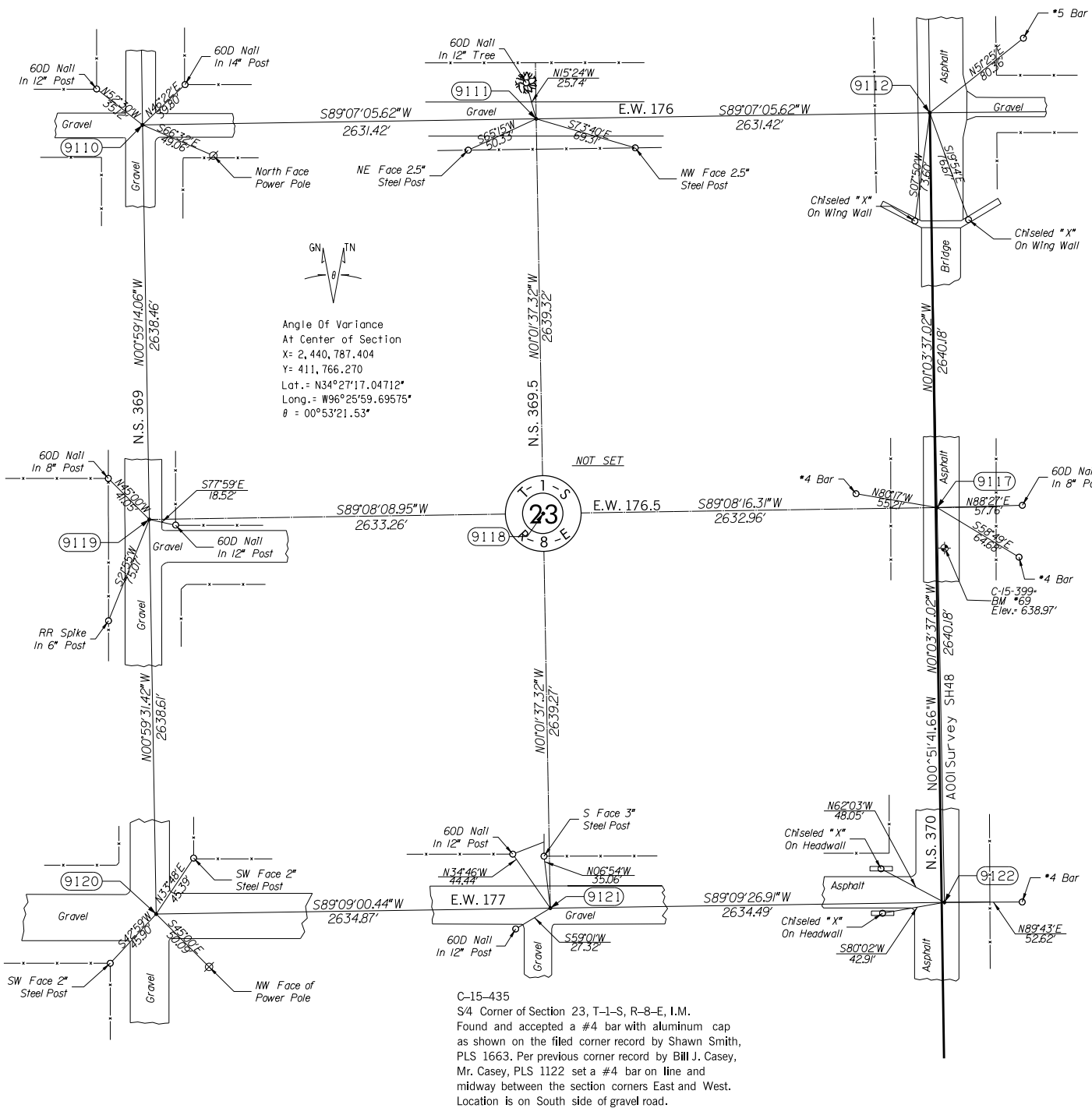


PLS	KJH	
DRAWN	DR	
CHECKED	KJH	
APPROVED	KJH	
CREW	PR/DB	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET
SWO 5159(1)

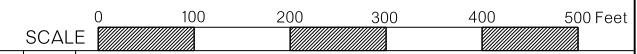
C-15-484
NW Corner of Section 23, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar with aluminum cap set by Bill J. Casey as shown on his filed corner record. He had found and replaced an existing 40d nail in the gravel intersection set by unknown party. Location seems to fit well with surrounding improvements.



C-15-482
NE Corner of Section 23, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set by Bill J. Casey as shown on his filed corner record. He stated he re-established this location using found ODOT evidence per SWO 2034(1). This location agrees with references and ties to existing plans and survey.

C-15-495
E4 Corner of Section 23, T-1-S, R-8-E, I.M.
Found and accepted a magnetic nail at location. No corner record is on file for this location. Location agrees with references and ties to existing plans and survey.

C-15-436
SE Corner of Section 23, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike as shown on the corner record filed by Shawn Smith, PLS 1663 and was originally set per previous corner record by Bill J. Casey, PLS 1122 from evidence found from the ODOT survey, SWO 2034(1). Location agrees with references and ties to existing plans and survey.



PLS	KJH	
DRAWN	DR	
CHECKED	KJH	
APPROVED	KJH	
CREW	PR/DB	
COUNTY	COAL	HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S029

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

SURVEY DATA SHEET

SWO 5159(1)

C-15-482
NW Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike set by Bill J. Casey as shown on his filed corner record. He stated he re-established this location using found ODOT evidence per SWO 2034(1). This location agrees with references and ties to existing plans and survey.

C-15-495
W4 Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a magnetic nail at location. No corner record is on file for this location. Location agrees with references and ties to existing plans and survey.

C-15-436
SW Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a railroad spike as shown on the corner record filed by Shawn Smith, PLS 1663 and was originally set per previous corner record by Bill J. Casey, PLS 1122 from evidence found from the ODOT survey, SWO 2034(1). Location agrees with references and ties to existing plans and survey.

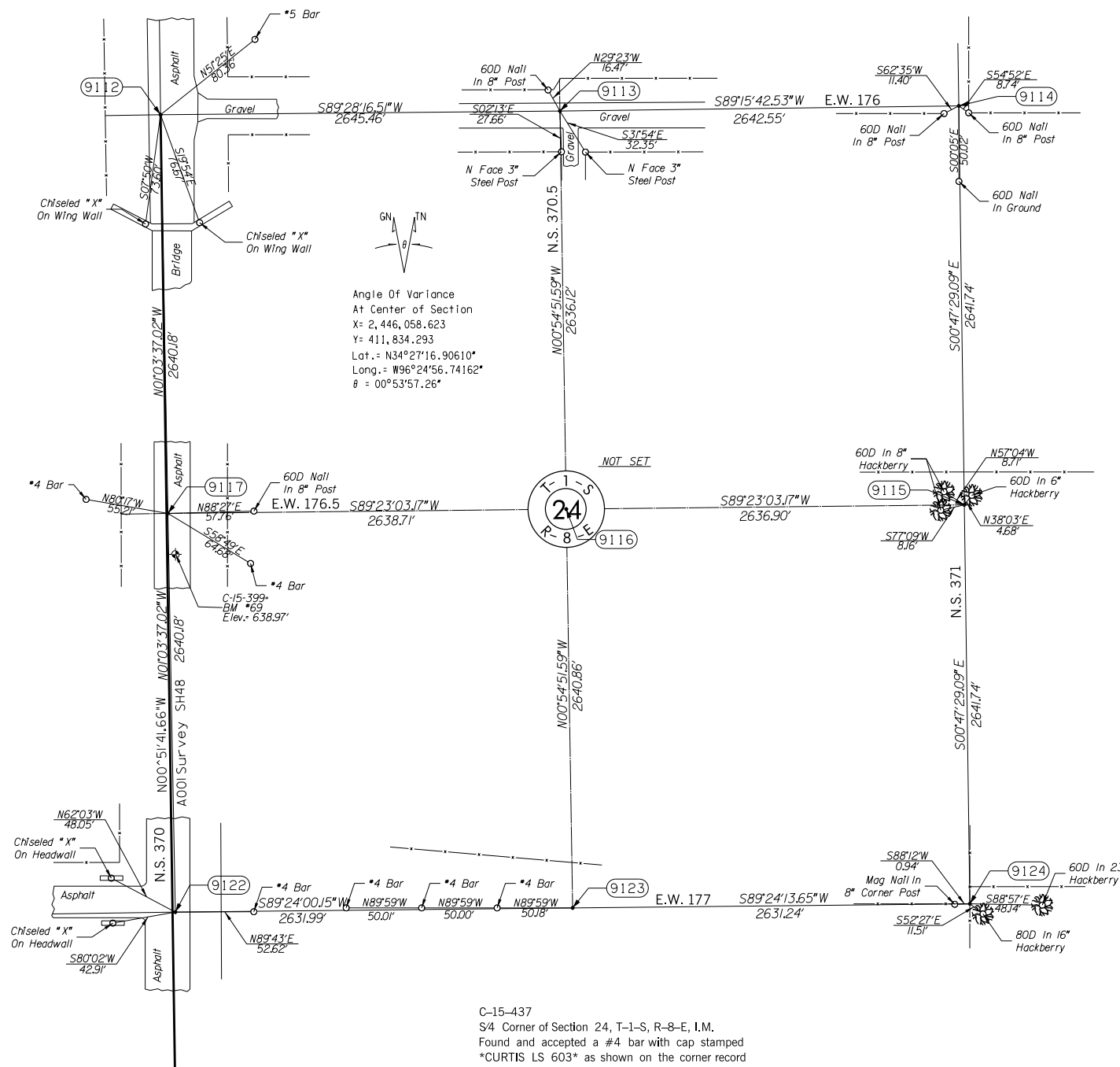
C-15-490
N4 Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar with cap stamped *LS 1310 DAVID LOUY.* No corner record is on file for this location. Monument seems to fit improvements well.

C-15-489
NE Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar as shown on the corner record filed by Cole Craig, PLS 1780. He stated this location was set by using single proportion method along the township line.

C-15-491
E4 Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar with cap stamped *CLS CA 5072*. No corner record is on file for this location.

C-15-438
SE Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar as shown on the corner record filed by Shawn Smith, PLS 1663. This monument seems to agree with surrounding improvements.

C-15-437
S4 Corner of Section 24, T-1-S, R-8-E, I.M.
Found and accepted a #4 bar with cap stamped *CURTIS LS 603* as shown on the corner record filed by Shawn Smith, PLS 1663. This monument seems to agree with surrounding improvements, references and ties to existing plans and survey.



Angle Of Variance
At Center of Section
X = 2,446,058.623
Y = 411,834.293
Lat. = N34°27'16.90610"
Long. = W96°24'56.74162"
θ = 00°53'57.26"



SCALE 0 100 200 300 400 500 Feet

PLS	KJH	
DRAWN	DR	
CHECKED	KJH	
APPROVED	KJH	
CREW	PR/DB	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET
SWO 5159(1)

COUNTY COAL HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S030

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

1/4 Section Corner - ODOT Monument No. C-15-435
Found and accepted #4 rebar with aluminum cap
as shown on corner record filed by Bill J. Casey, PLS 1122.

Section Corner - ODOT Monument No. C-15-434
Found and accepted #4 rebar with cap PLS 1122
as shown on corner record filed Bill J. Casey, PLS 1122 and by Robert O. Cartmill, PLS 85.

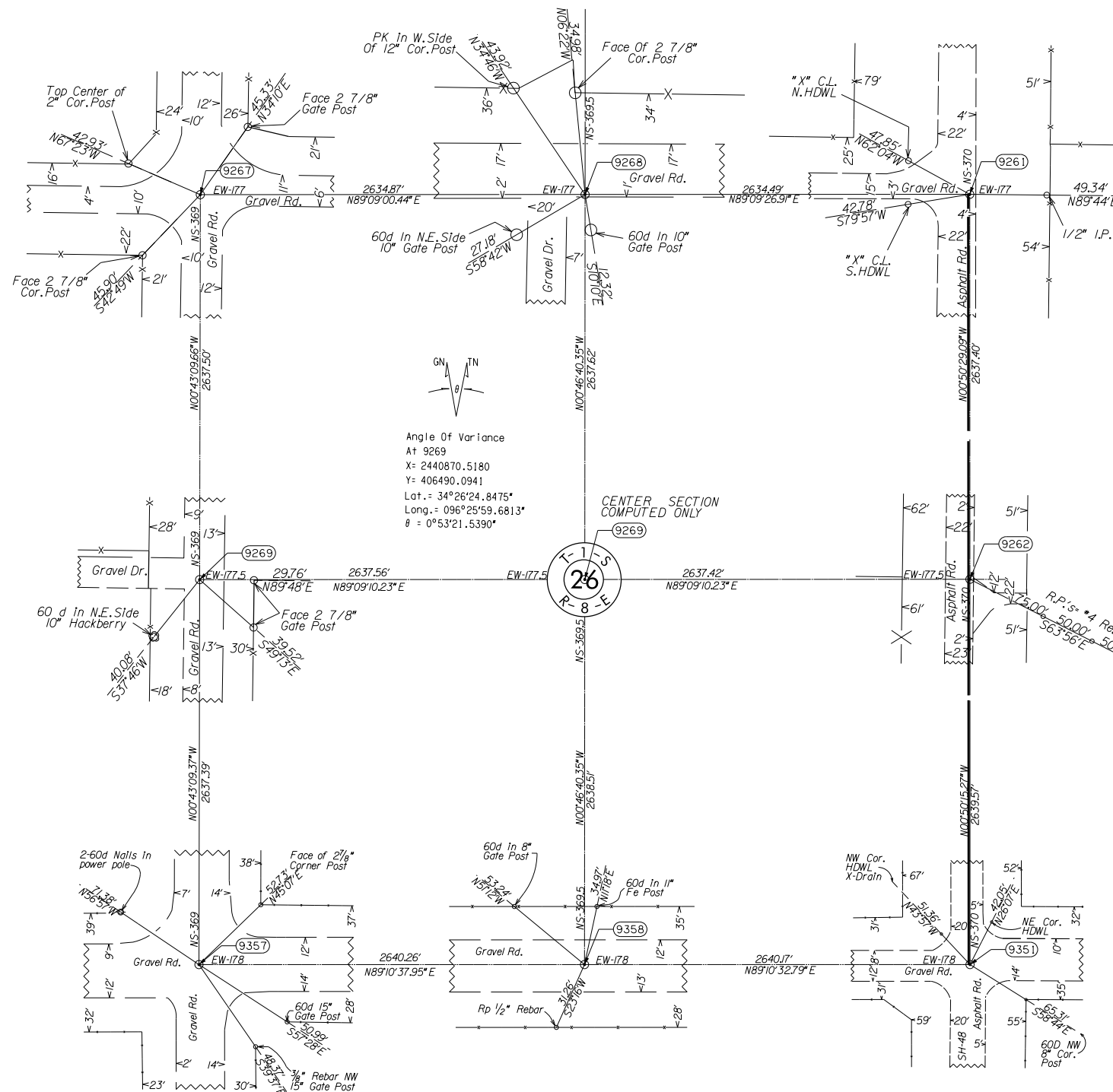
Section Corner - ODOT Monument No. C-15-436
Found and accepted railroad spike as shown on
corner record filed Bill J. Casey, PLS 1122.

1/4 Section Corner - ODOT Monument No. C-15-431
Found and accepted #4 rebar as shown on corner
record filed by Robert O. Cartmill, PLS 85.

1/4 Section Corner - ODOT Monument No. C-15-432
Found and accepted #4 rebar. This monument fits
surrounding collateral evidence. There was no corner
record on file.

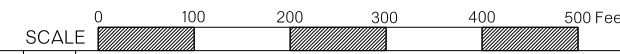
Section Corner - ODOT Monument No. C-15-423
Found and accepted #4 rebar as shown on corner
record filed by Robert O. Cartmill, PLS 85. Also
found 1" square rebar 5" north of corner.

Section Corner - ODOT Monument No. C-15-425
Set Mag Nail with Washer PLS 1663. This
monument was re-established from FASP No.
S-458(7)S Plans.



Angle Of Variance
At 9269
X = 2440870.5180
Y = 406490.0941
Lat. = 34°26'24.8475"
Long. = 096°25'59.6813"
θ = 0°53'21.5390"

CENTER SECTION
COMPUTED ONLY



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.

PLS	SS	
DRAWN	EAM	
CHECKED	SS	
APPROVED		
CREW	ADA	

OKLAHOMA DEPARTMENT OF TRANSPORTATION
SURVEY DIVISION

SURVEY DATA SHEET
SWO 5159(1)

COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S031

1/4 Section Corner - ODOT Monument No. C-15-437
Found and accepted #4 rebar with cap PLS 603.
This monument fits surrounding collateral evidence.
There was no corner record on file.

Section Corner - ODOT Monument No. C-15-436
Found and accepted railroad spike as shown on
corner record filed Bill J. Casey, PLS 1122.

Section Corner - ODOT Monument No. C-15-438
Found and accepted #4 rebar. This monument fits
well with surrounding collateral evidence. There was
no corner record on file.

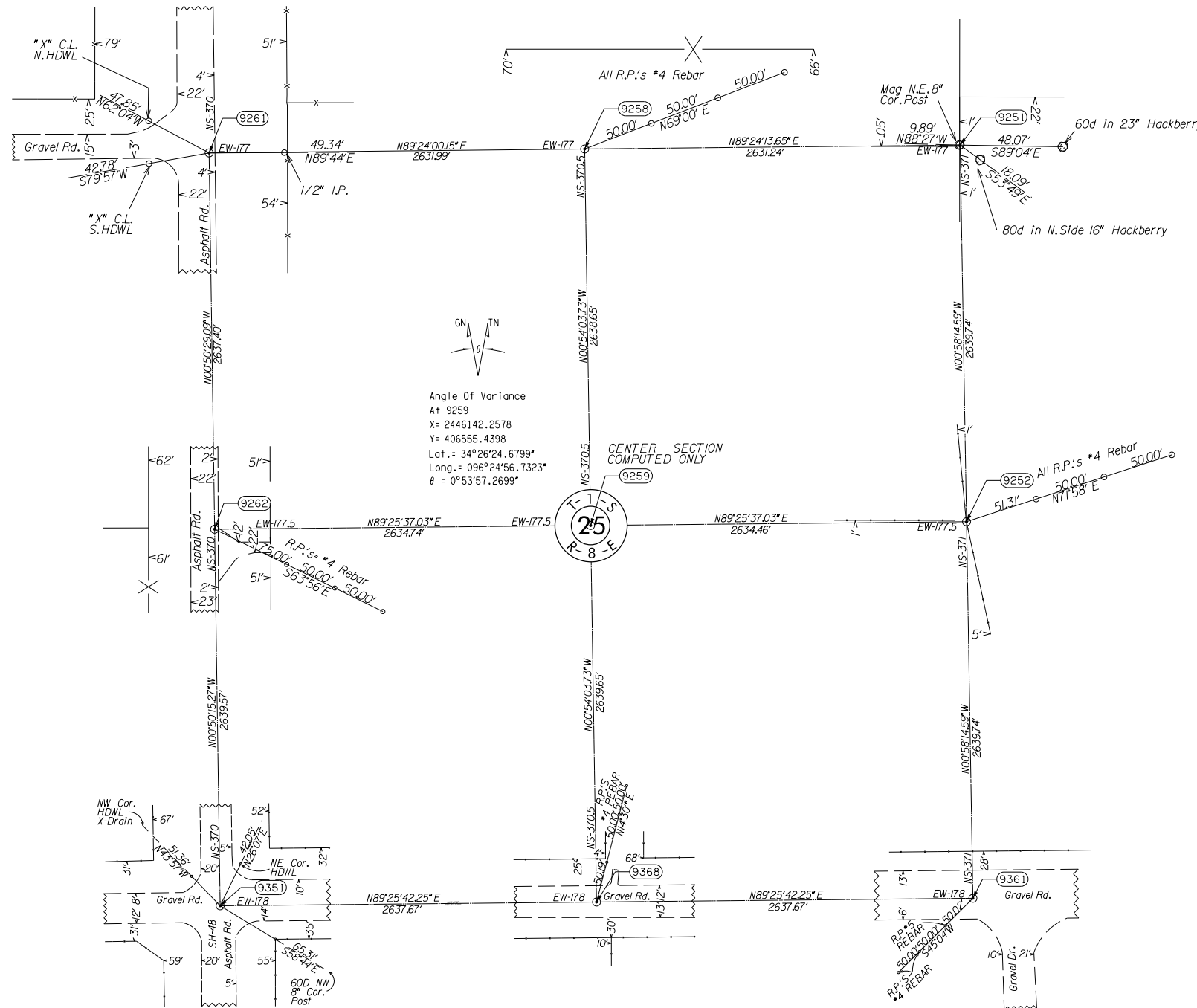
1/4 Section Corner - ODOT Monument No. C-15-432
Found and accepted #4 rebar. This monument fits
surrounding collateral evidence. There was no corner
record on file.

1/4 Section Corner - ODOT Monument No. C-15-433
Set #4 rebar with cap PLS 1663 using proportional
measurement. There was no corner record on file.

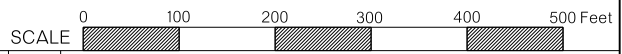
Section Corner - ODOT Monument No. C-15-425
Set Mag Nail with Washer PLS 1663. This
monument was re-established from FASP No.
S-458(7)S Plans.

Section Corner - ODOT Monument No. C-15-427
Found and accepted #5 rebar with aluminum cap
PLS 1780 as shown on corner record filed by Cole
Craigie, PLS 1780.

1/4 Section Corner - ODOT Monument No. C-15-426
Set #4 rebar with cap PLS 1663. This monument was
established using proportional measurement. There was
no corner record on file.



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S032			

1/4 Section Corner - ODOT Monument No. C-15-424
Found and accepted bent #4 rebar. This monument
appears to match the location shown on corner record
filed by Robert O. Cartmill, PLS 85.

Section Corner - ODOT Monument No. C-15-423
Found and accepted #4 rebar as shown on corner
record filed by Robert O. Cartmill, PLS 85. Also
found 1" square rebar 5' north of corner.

Section Corner - ODOT Monument No. C-15-425
Set Mag Nail with Washer PLS 1663. This
monument was re-established from FASP No.
S-458(7)S Plans.

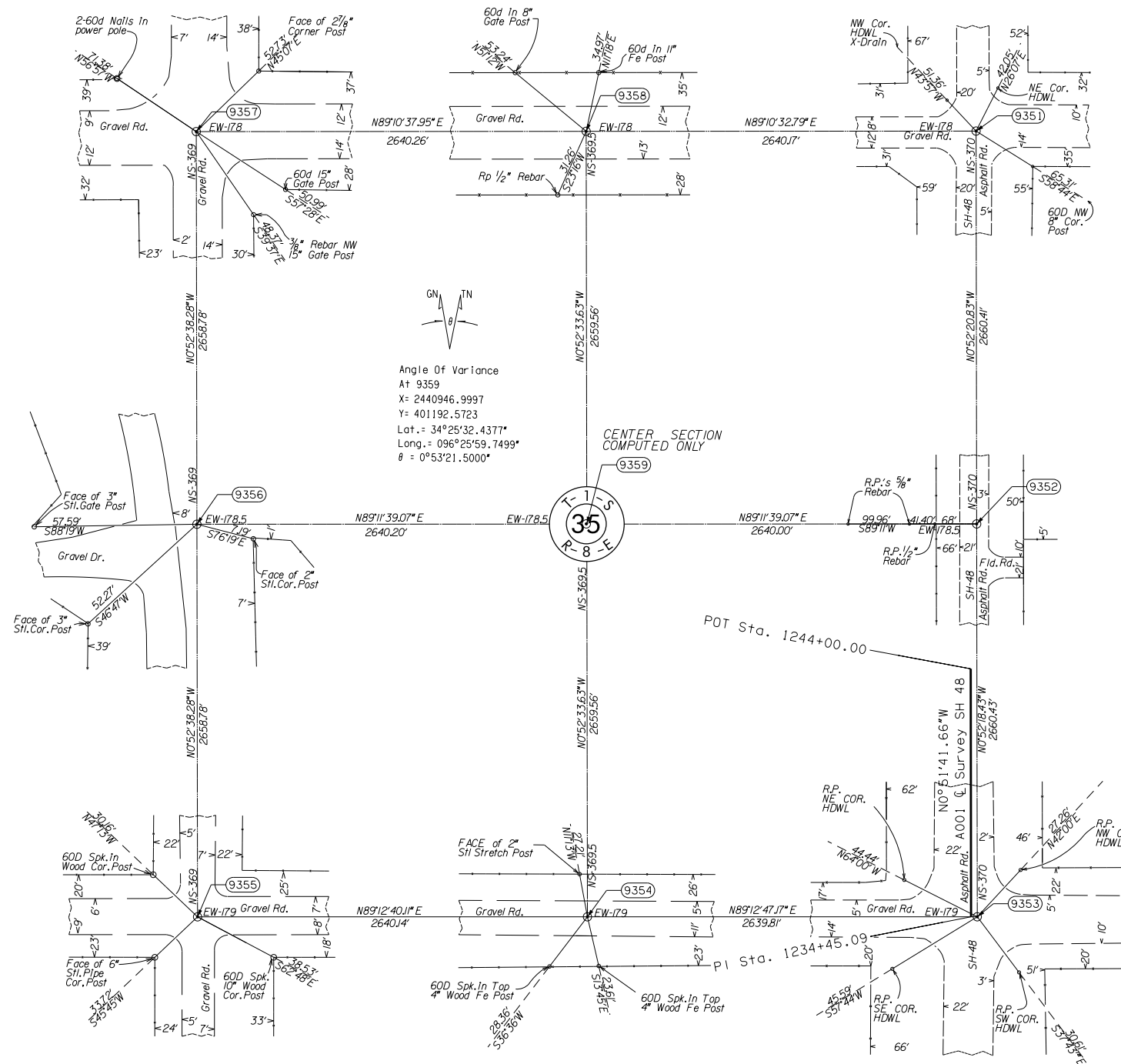
1/4 Section Corner - ODOT Monument No. C-15-428
Set #4 rebar with cap PLS 1663. This monument
was established using proportional measurement. There
was no corner record on file.

1/4 Section Corner - ODOT Monument No. C-15-429
Set Mag Nail with Washer PLS 1663. This monument
was re-established from FASP No. S-458(7)S Plans.

Section Corner - ODOT Monument No. J-35-792
Found and accepted #4 rebar as shown on corner
record filed by Marcus T. Heilman, PLS 1827. This
monument matches the location shown on corner
record filed by Robert O. Cartmill, PLS 85.

Section Corner - ODOT Monument No. J-35-794
Found chipped hole that matches references shown
on corner record filed by David L. Page, Jr., PLS
1566 and by Marcus T. Heilman, PLS 1827. Set
Mag Nail with Washer PLS 1663 in hole.

1/4 Section Corner - ODOT Monument No. J-35-793
Found and accepted #4 rebar with cap PLS 1827
as shown on corner record filed by Marcus T.
Heilman, PLS 1827.



GN TN
Angle Of Variance
At 9359
X= 2440946.9997
Y= 401192.5723
Lat. = 34°25'32.4377"
Long. = 096°25'59.7499"
θ = 0°53'21.5000"

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S033			

Section Corner – ODOT Monument No. J-35-794
Found chipped hole that matches references shown
on corner record filed by David L. Page, Jr., PLS
1566 and by Marcus T. Heilman, PLS 1827. Set
Mag Nail with Washer PLS 1663 in hole.

1/4 Section Corner – ODOT Monument No. J-35-795
Set #4 rebar with cap PLS 1663. This monument was
re-established as shown on corner record filed by
David L. Page, Jr., PLS 1566 from references and
surrounding monuments.

Section Corner – ODOT Monument No. J-35-796
Found and accepted #4 rebar with cap PLS 1566
as shown on corner record filed by David L. Page,
Jr., PLS 1566.

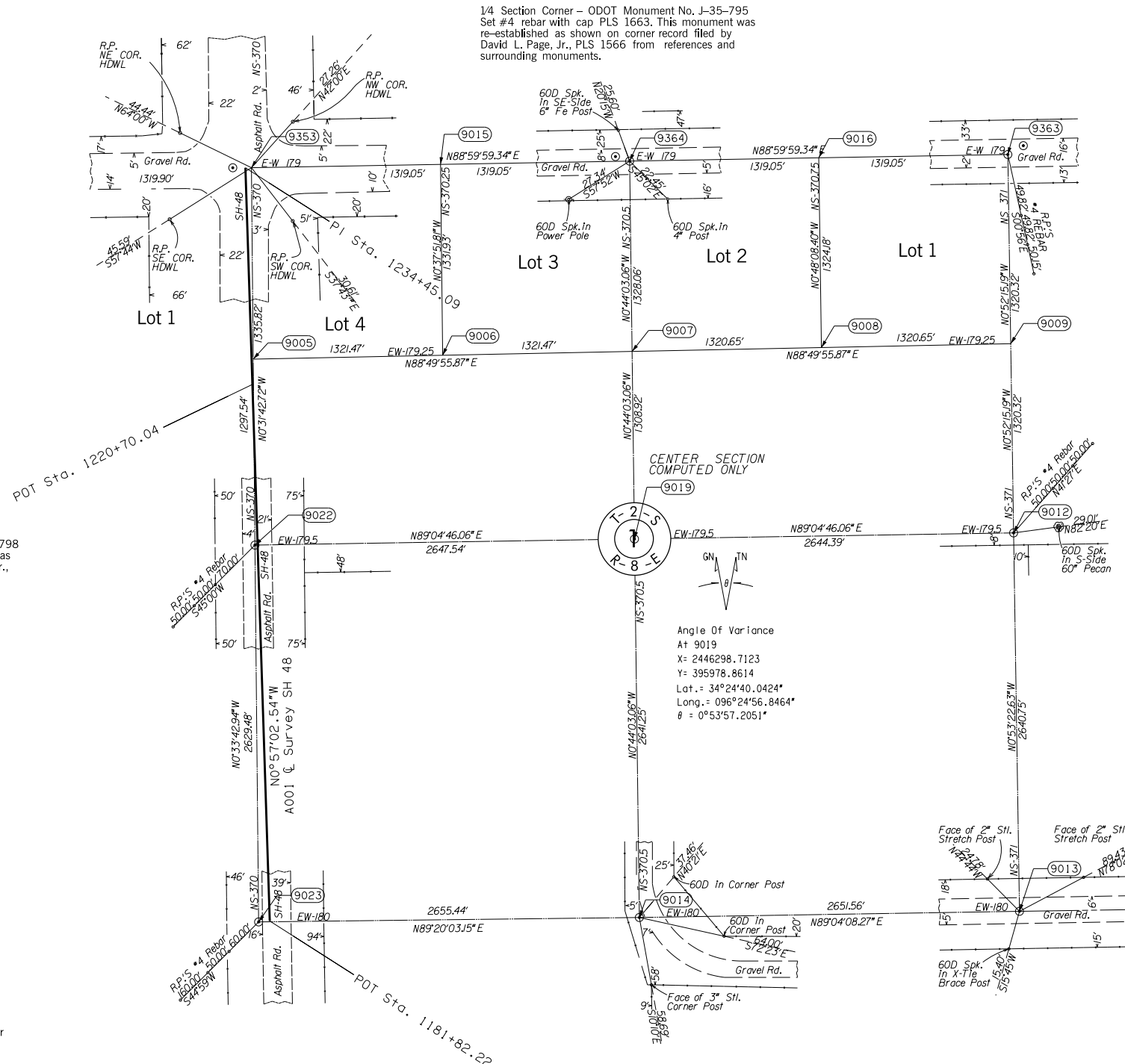
1/4 Section Corner – ODOT Monument No. J-35-798
Found and accepted P.K. Nail with brass washer as
shown on corner record filed by David L. Page, Jr.,
PLS 1566.

1/4 Section Corner – ODOT Monument No. J-35-799
Found and accepted #4 rebar with cap PLS 1566 as
shown on corner record filed by David L. Page, Jr.,
PLS 1566.

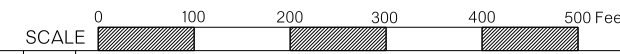
Section Corner – ODOT Monument No. J-35-802
Found and accepted 1" rebar as shown on corner
record filed by Obert D. Bennett, PLS 1471.

1/4 Section Corner – ODOT Monument No. J-35-803
Found and accepted #4 rebar with cap PLS 1566
as shown on corner record filed by David L. Page, Jr.,
PLS 1566.

Section Corner – ODOT Monument No. J-35-804
Found and accepted #4 rebar with cap Lake
Texoma as shown on corner record filed by David
L. Page, Jr., PLS 1566. There was no remaining
evidence of the corner filed by David L. Mayes, PLS
1018.



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S036			



Section Corner – ODOT Monument No. J-35-800
Found and accepted #4 rebar. This monument fits
well with surrounding collateral evidence. There was
no corner record on file.

1/4 Section Corner – ODOT Monument No. J-35-805
Set #4 rebar with cap PLS 1663. This monument
was established using proportional measurement.
There was no corner record on file.

Section Corner – ODOT Monument No. J-35-808
Set #4 rebar with cap PLS 1663. This monument
was established at the point calculated per the filed
corner record for the S4 corner of section 11 by
Obert D. Bennett. This location fits well with
surrounding collateral evidence. There was no corner
record on file.

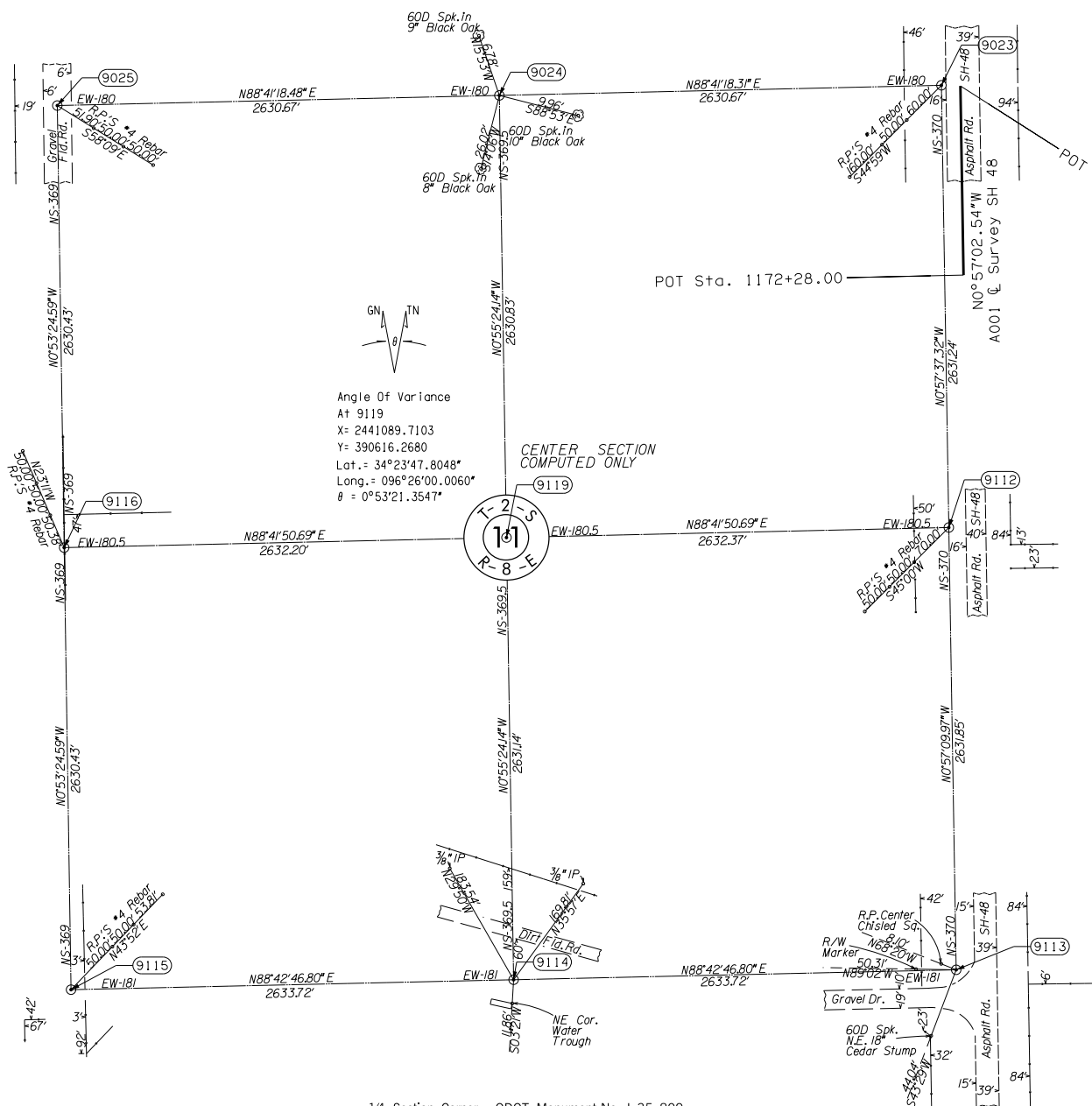
1/4 Section Corner – ODOT Monument No. J-35-801
Set #4 rebar with cap PLS 1663. This monument
was established using proportional measurement.
There was no corner record on file.

Section Corner – ODOT Monument No. J-35-802
Found and accepted 1" rebar as shown on corner
record filed by Obert D. Bennett, PLS 1471.

1/4 Section Corner – ODOT Monument No. J-35-806
Found and accepted #4 rebar as shown on corner
record filed by David L. Page, Jr., PLS 1566.

Section Corner – ODOT Monument No. J-35-810
Found and accepted #4 rebar with cap PLS 1471
as shown on corner record filed by Obert D.
Bennett, PLS 1471.

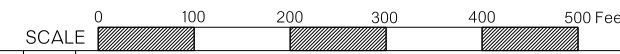
1/4 Section Corner – ODOT Monument No. J-35-809
Found and accepted #4 rebar with cap PLS 1471
as shown on corner record filed by Obert D. Bennett,
PLS 1471.



Angle Of Variance
At 9119
X= 2441089.7103
Y= 390616.2680
Lat. = 34°23'47.8048"
Long. = 096°26'00.0060"
θ = 0°53'21.3547"

CENTER SECTION
COMPUTED ONLY

NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
CREW	ADA		
SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO S037			



Section Corner – ODOT Monument No. J-35-802
Found and accepted 1" rebar as shown on corner
record filed by Obert D. Bennett, PLS 1471.

1/4 Section Corner – ODOT Monument No. J-35-803
Found and accepted #4 rebar with cap PLS 1566
as shown on corner record filed by David L. Page, Jr.,
PLS 1566.

Section Corner – ODOT Monument No. J-35-804
Found and accepted #4 rebar with cap Lake
Texoma as shown on corner record filed by David
L. Page, Jr., PLS 1566. There was no remaining
evidence of the corner filed by David L. Mayes, PLS
1018.

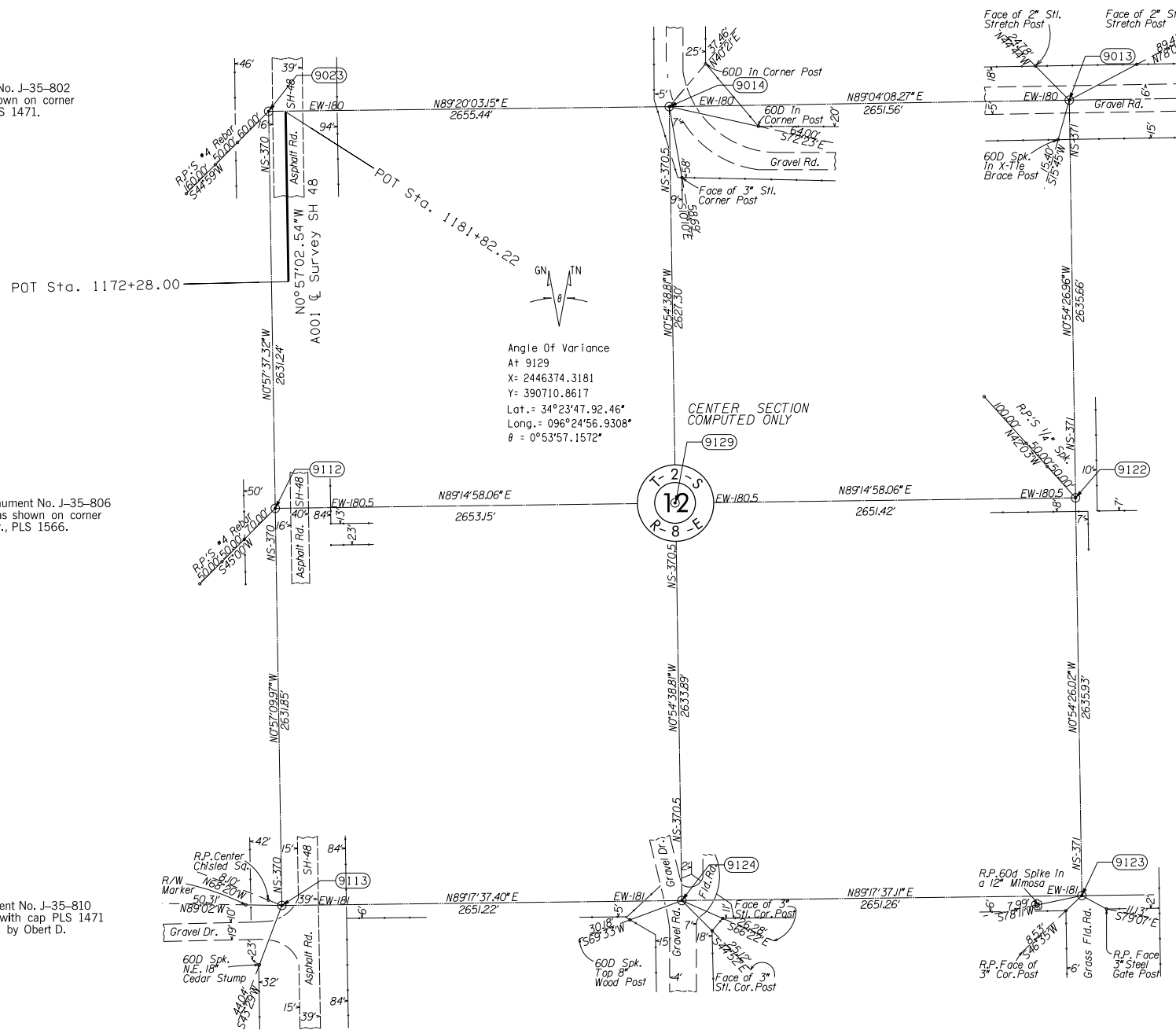
1/4 Section Corner – ODOT Monument No. J-35-806
Found and accepted #4 rebar as shown on corner
record filed by David L. Page, Jr., PLS 1566.

1/4 Section Corner – ODOT Monument No. J-35-807
Found and accepted #4 rebar with cap PLS 1566
as shown on corner record filed by David L. Page, Jr.,
PLS 1566.

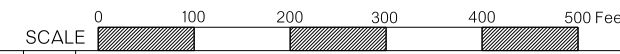
Section Corner – ODOT Monument No. J-35-810
Found and accepted #4 rebar with cap PLS 1471
as shown on corner record filed by Obert D.
Bennett, PLS 1471.

Section Corner – ODOT Monument No. J-35-812
Found and accepted #4 rebar with cap PLS 1566
as shown on corner record filed by David L. Page,
Jr., PLS 1566.

1/4 Section Corner – ODOT Monument No. J-35-811
Found and accepted #4 rebar with cap PLS 1566
as shown on corner record filed by David L. Page,
Jr., PLS 1566.



NOTE: REFERENCE'S SHOWN ARE NOT TO SCALE.



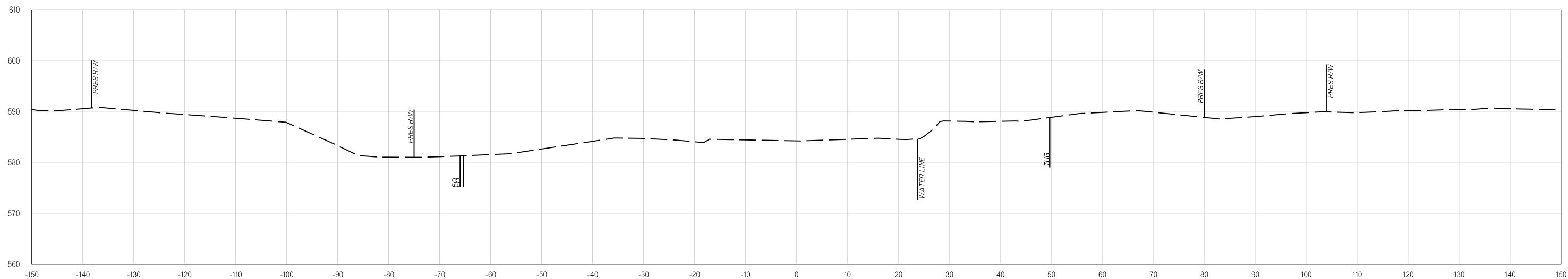
PLS	SS		OKLAHOMA DEPARTMENT OF TRANSPORTATION SURVEY DIVISION
DRAWN	EAM		
CHECKED	SS		
APPROVED			
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SURVEY DATA SHEET			
SWO 5159(1)			
COUNTY COAL-JOHNSTON HIGHWAY SH 48 STATE JOB NO. 31047(04) SHEET NO. S038			



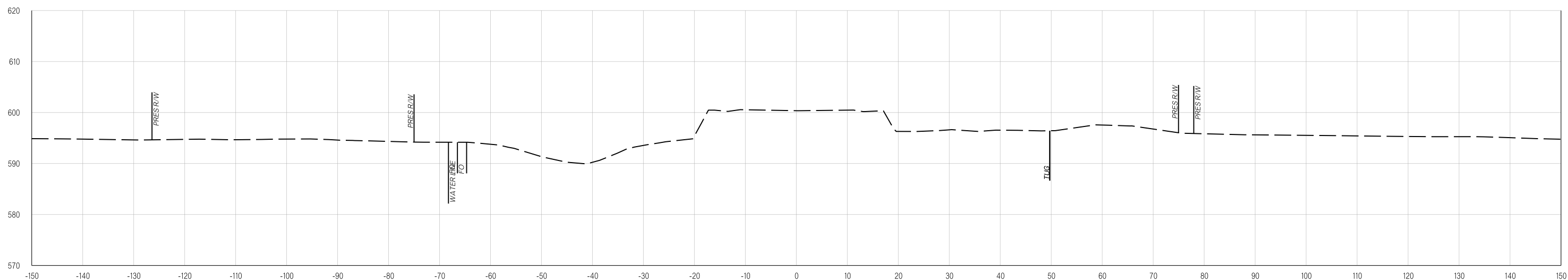
PROPOSED R/W

02-03-20

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1193+00.00

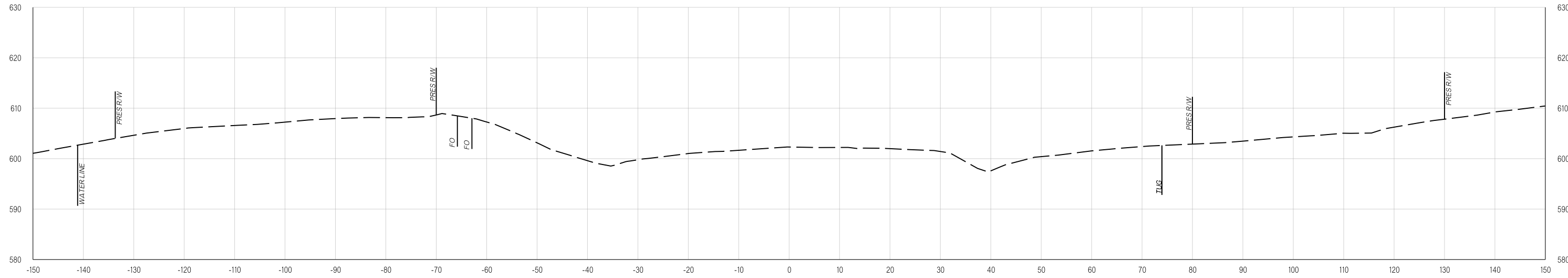


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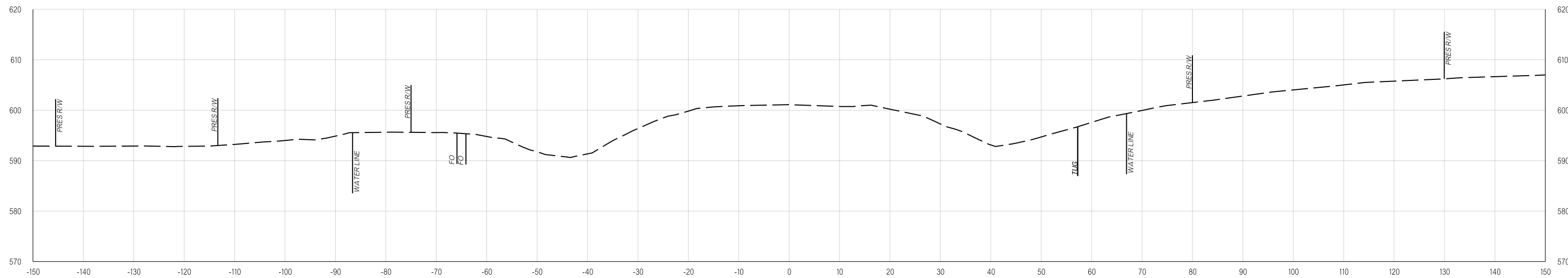
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02-03-20

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1195+00.00

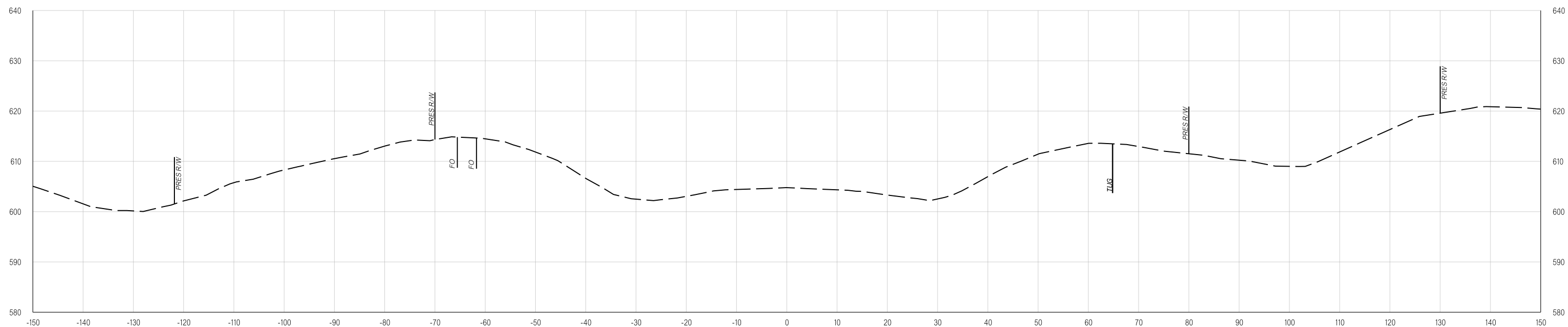


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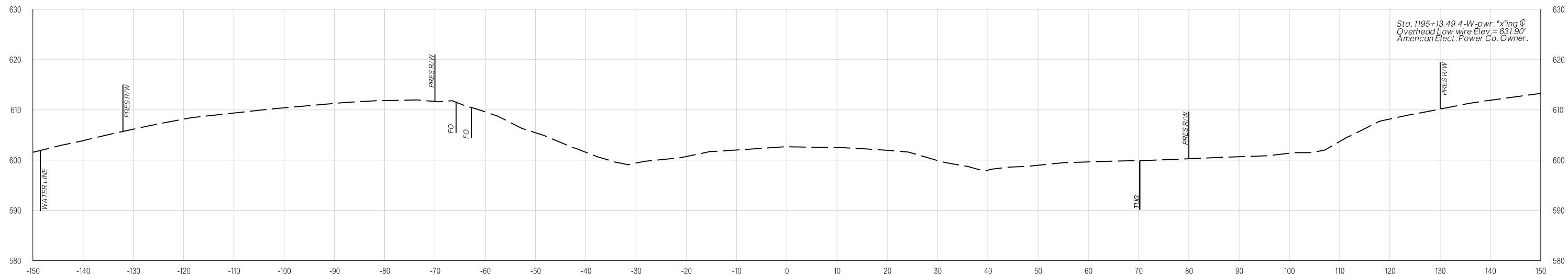
PROPOSED R/W

02-03-20

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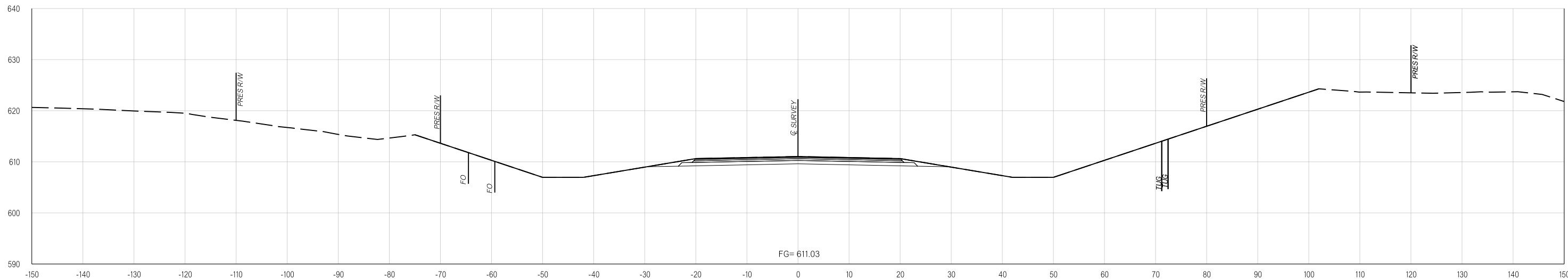
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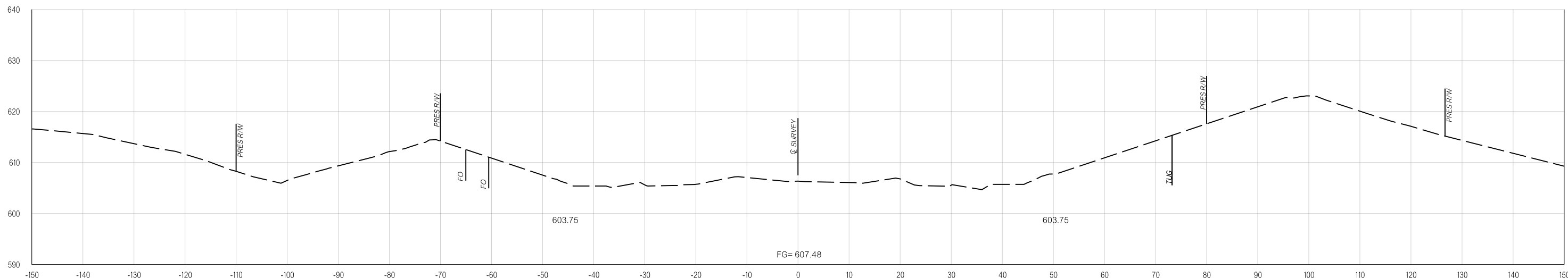
1195+13.48

Sta. 1195+13.49 4-W-pwr. "x"ing ϕ
Overhead Low wire Elev. = 631.90'
American Elect. Power Co. Owner.

02-03-20 pw:\VAPP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1198+00.00

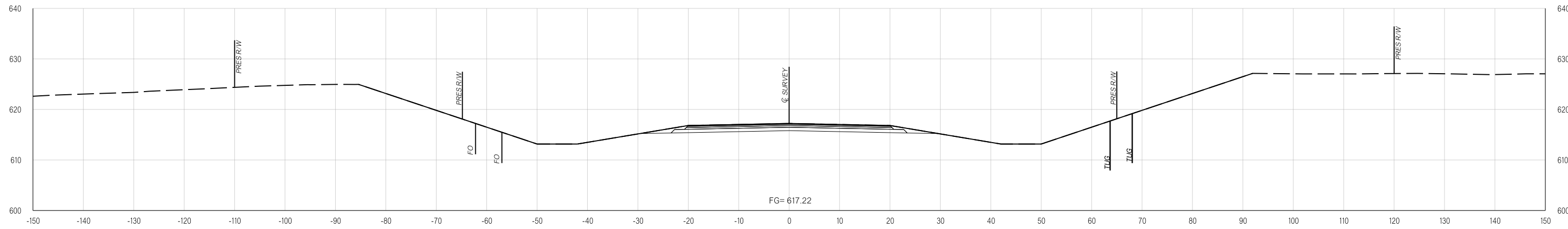


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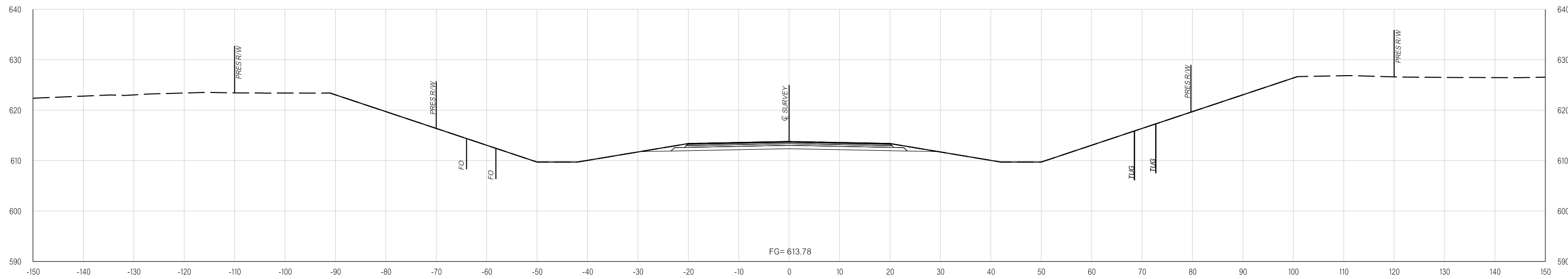
PROPOSED R/W

02-03-20

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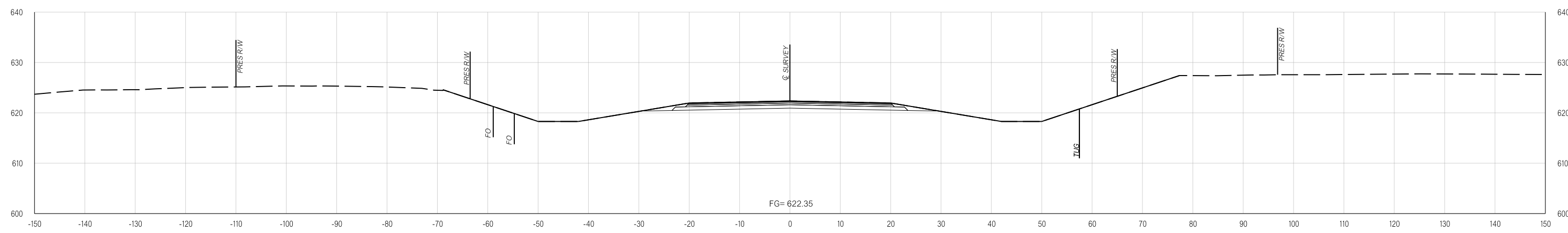


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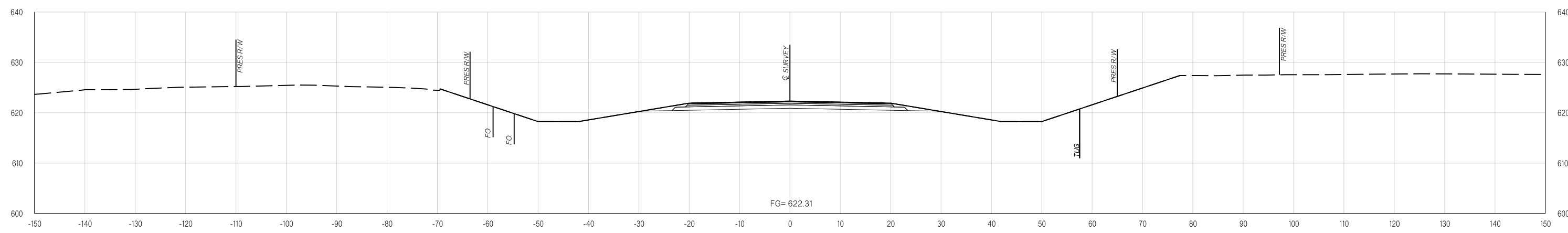


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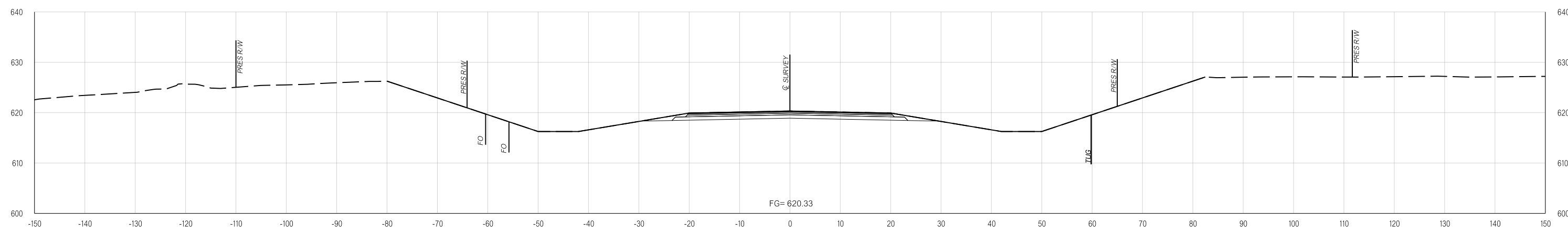
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 02-03-20



1201+89.00



1201+86.89



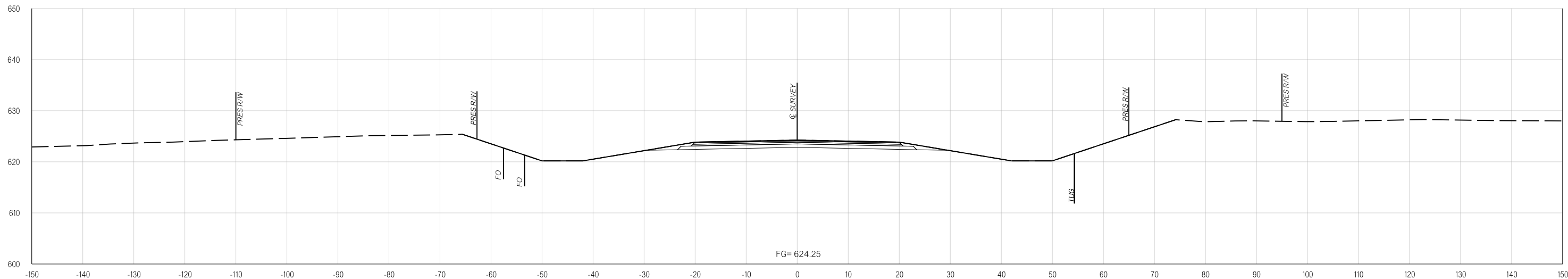
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PROPOSED R/W

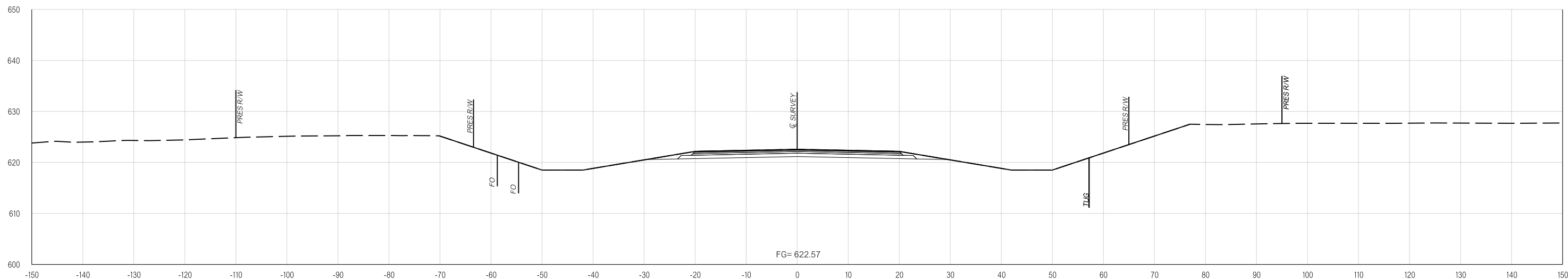
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02-03-20



1203+00.00



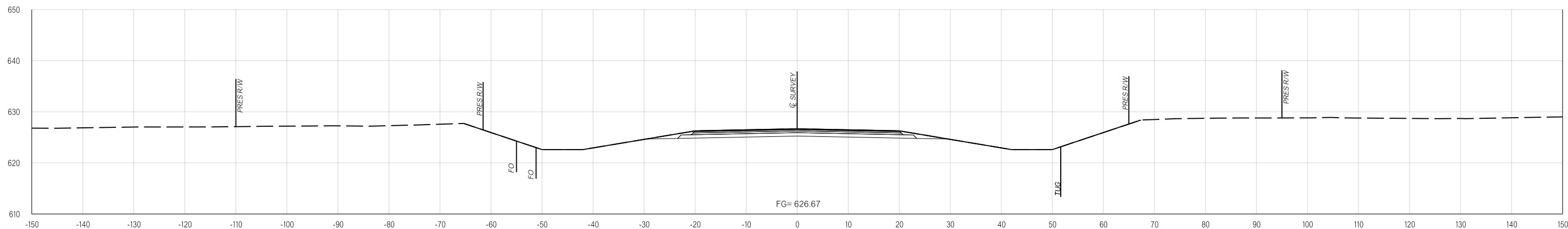
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PROPOSED R/W

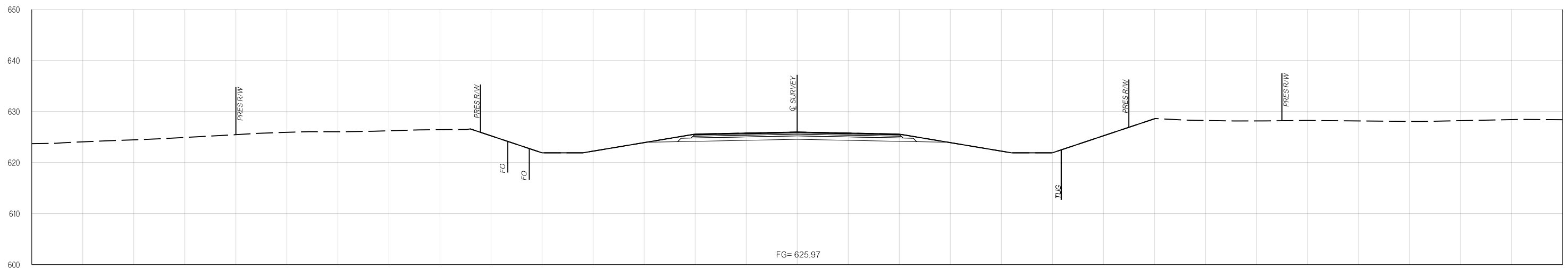
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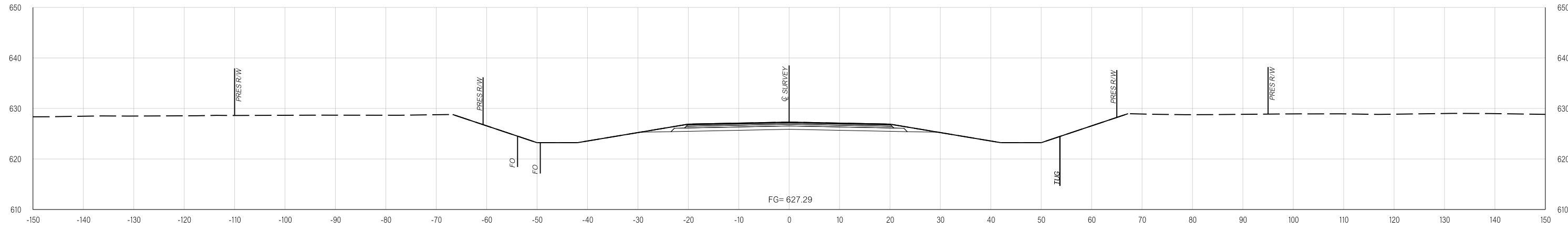
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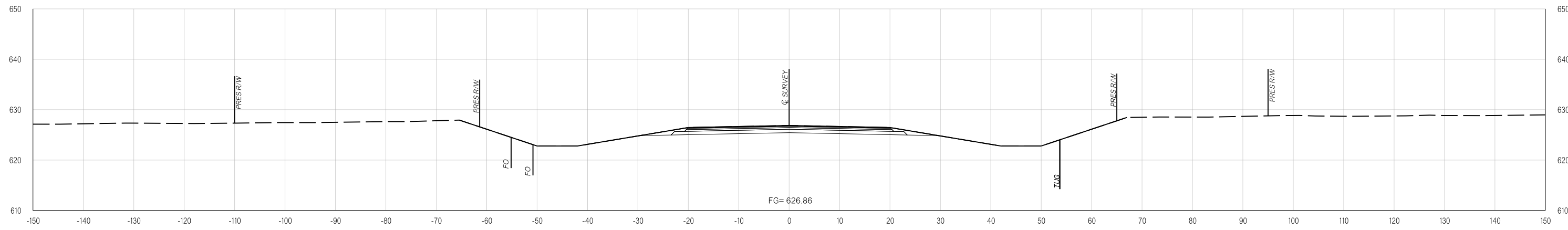
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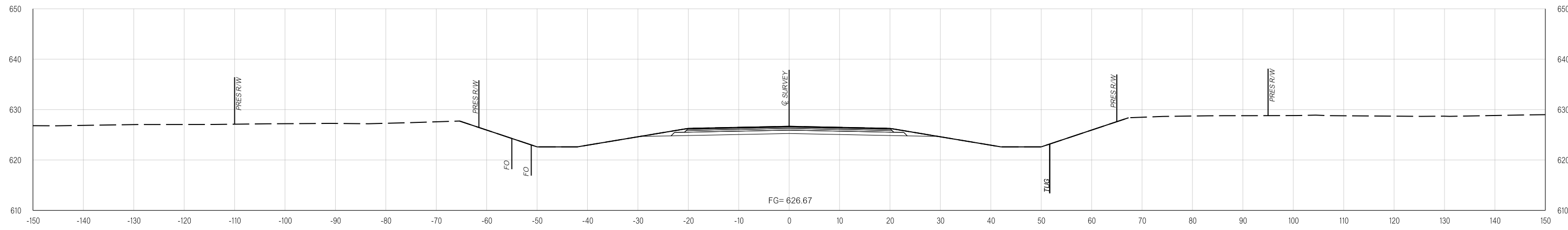
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1205+00.00

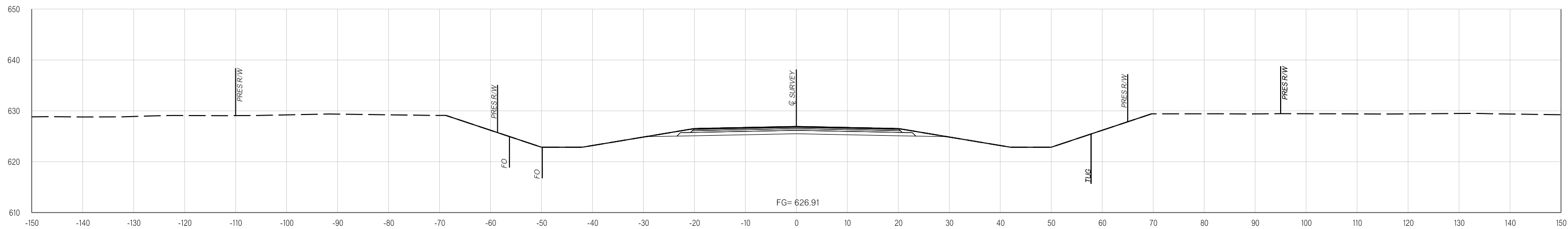


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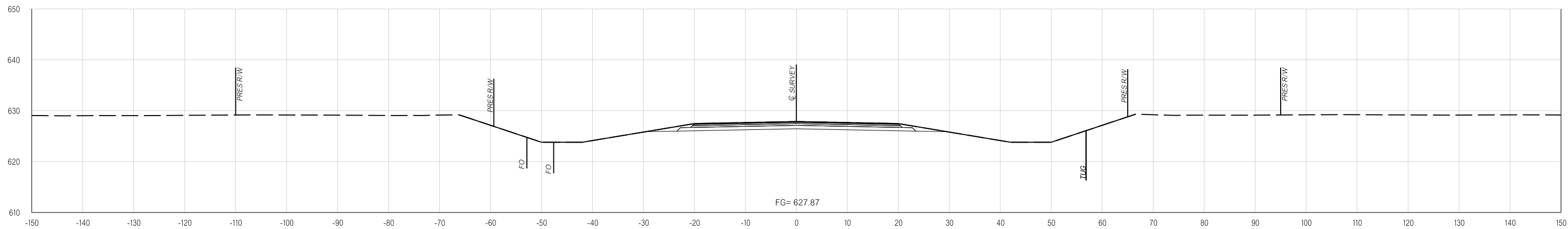
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PROPOSED R/W

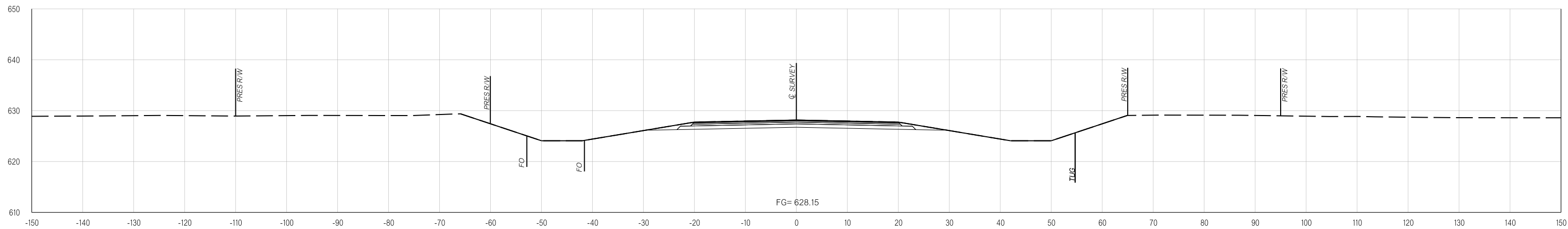
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1209+00.00



1208+00.00

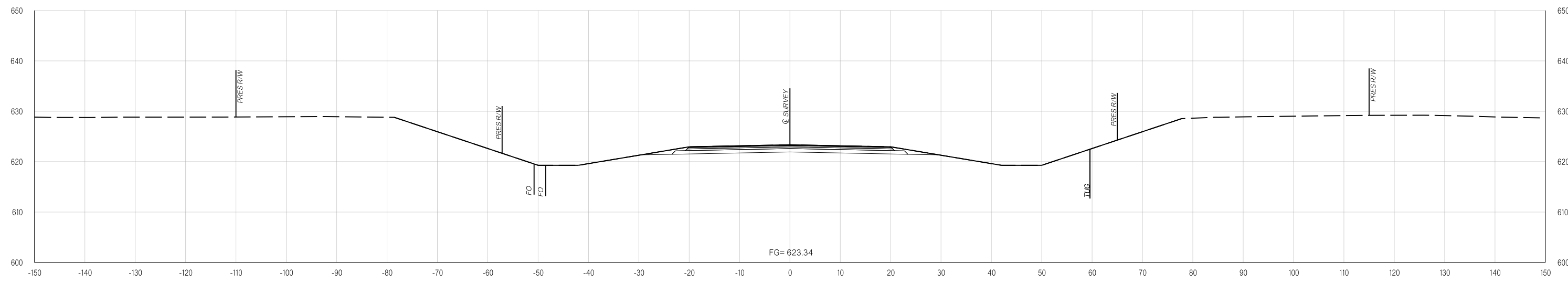


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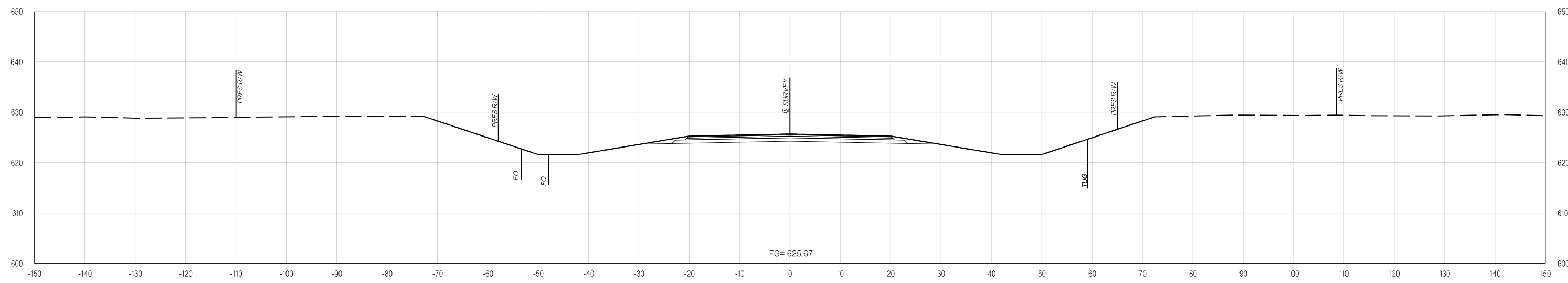
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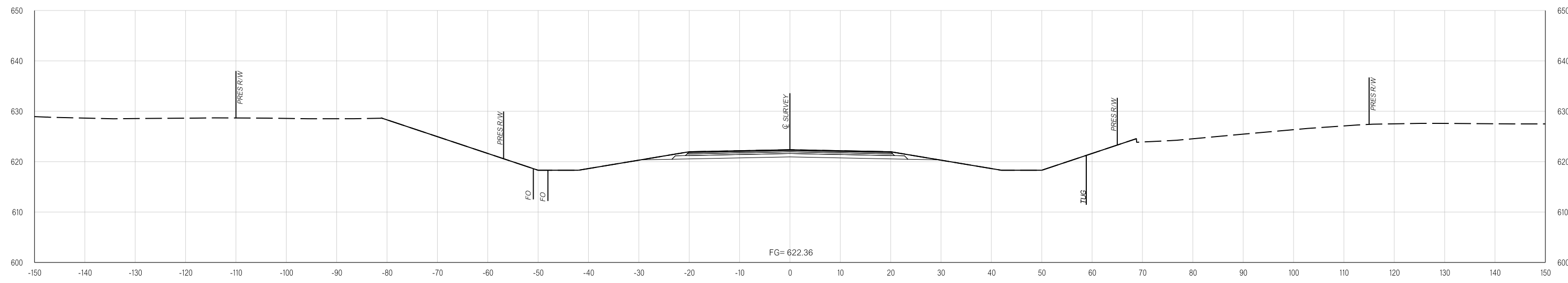


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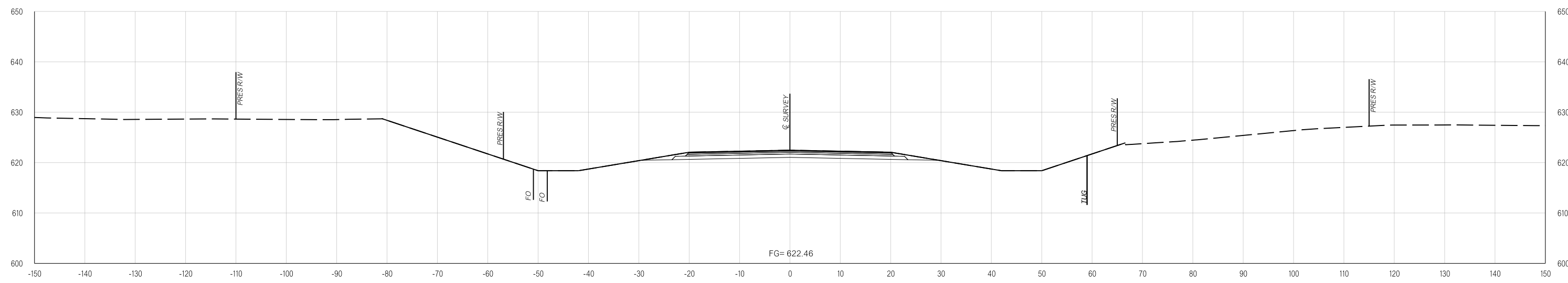


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 02-03-20

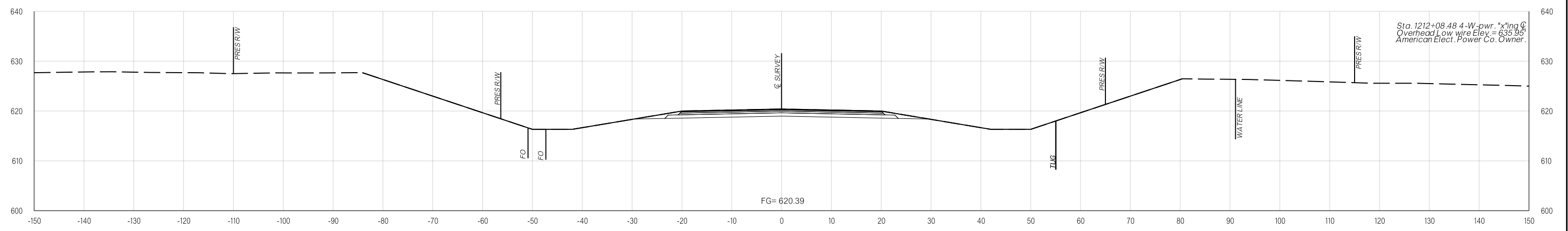


1211+40.00



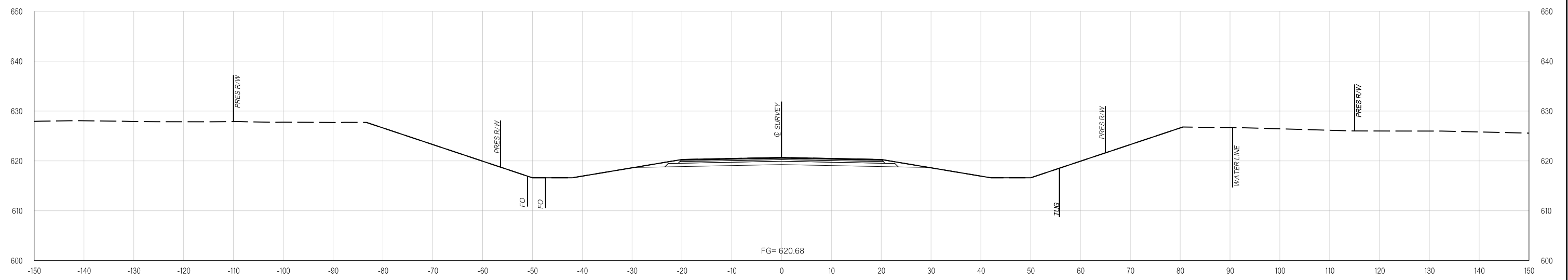
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 02-03-20



Sta. 1212+08.48 4-W-pwr. "x"ing @
 Overhead Low wire Elev. = 635.95'
 American Elect. Power Co. Owner.

1212+08.48

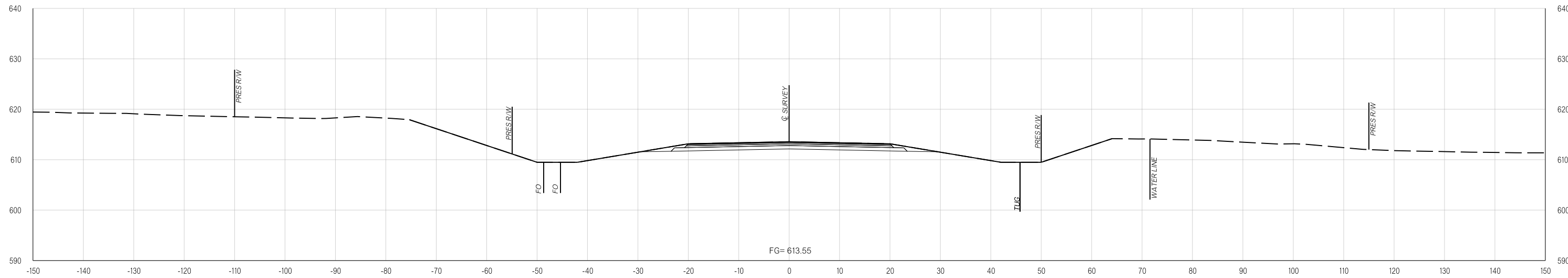


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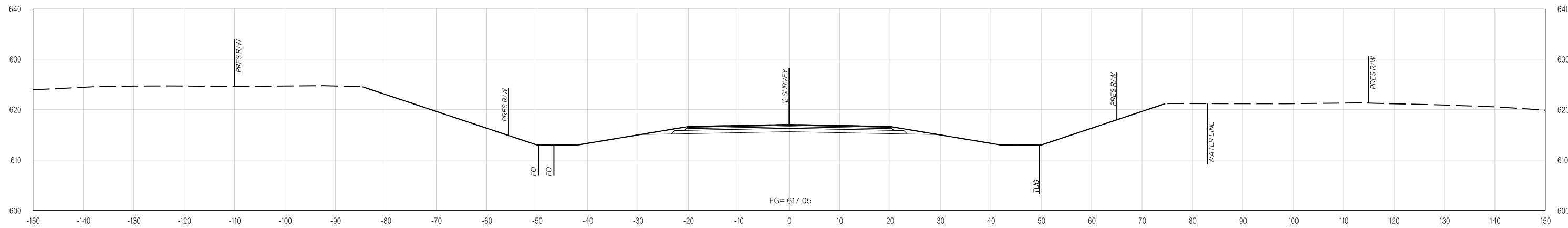
PROPOSED R/W

02-03-20

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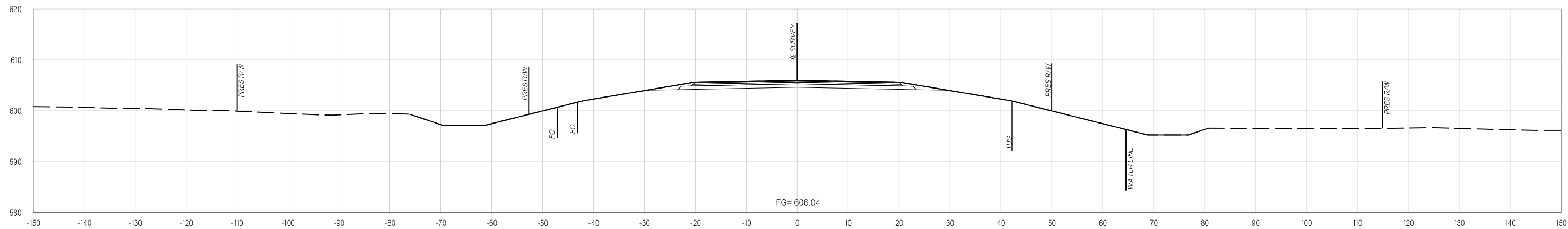
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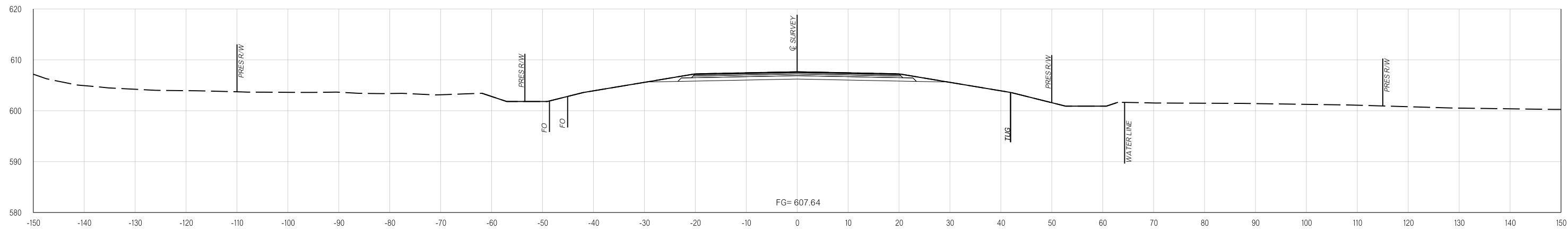
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PROPOSED R/W

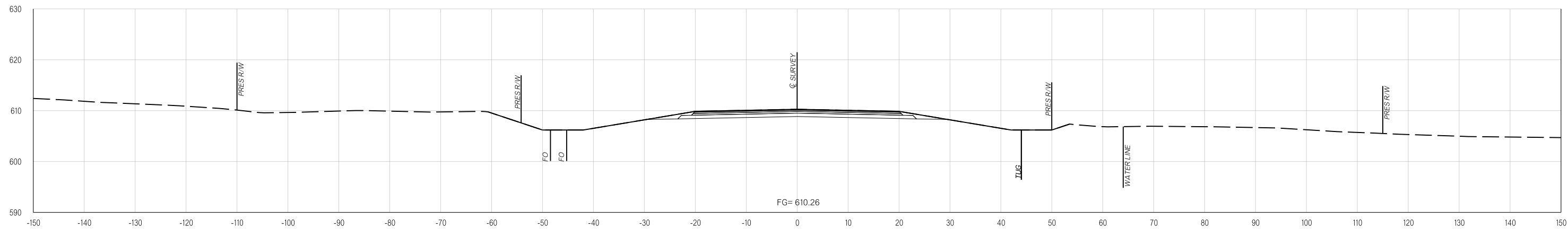
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1217+00.00



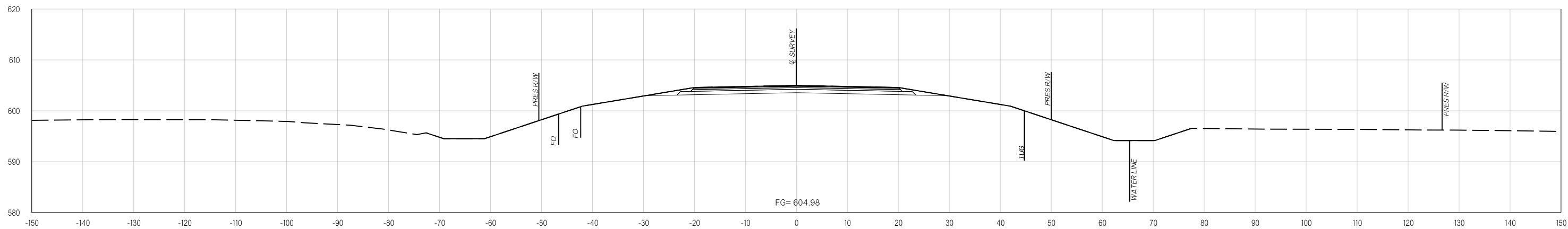
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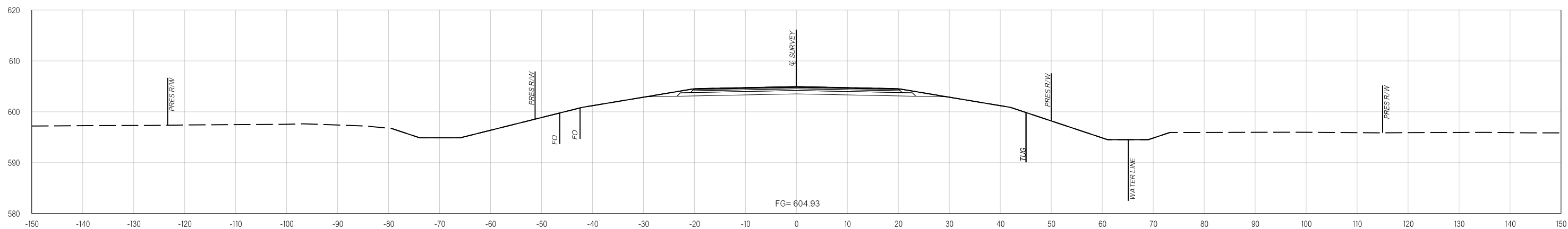
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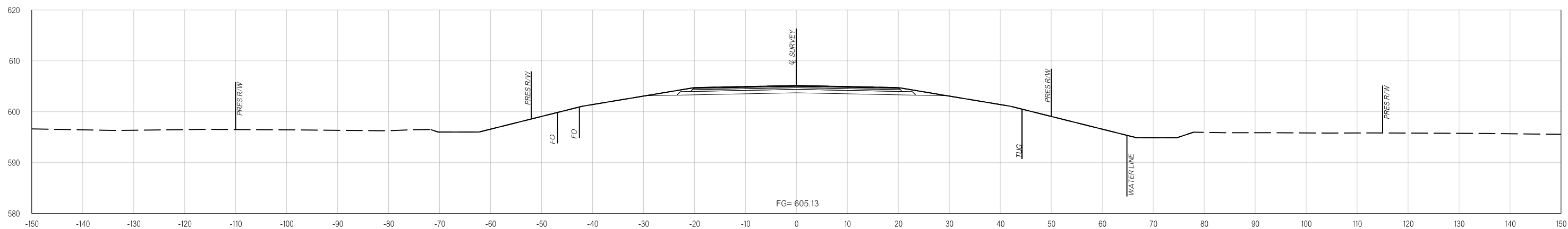
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1220+00.00



1219+00.00



1218+00.00

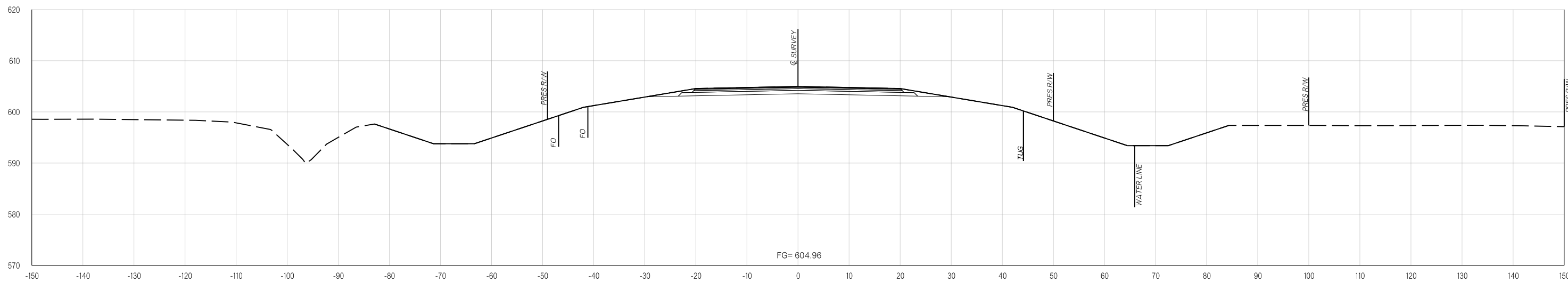
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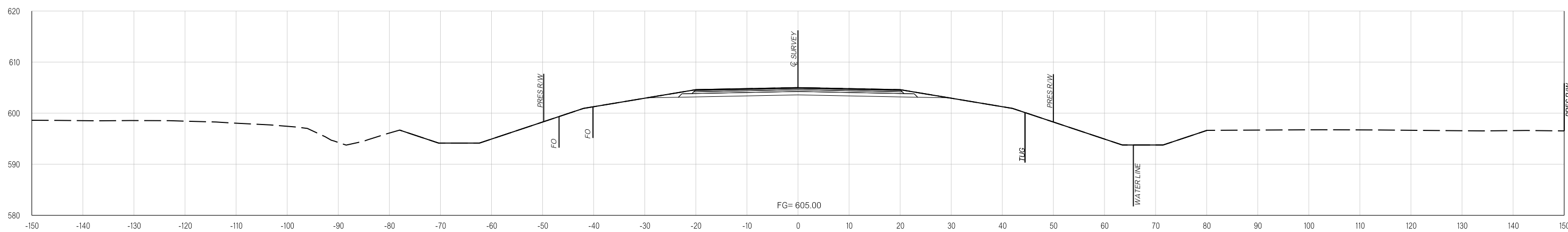
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02-03-20

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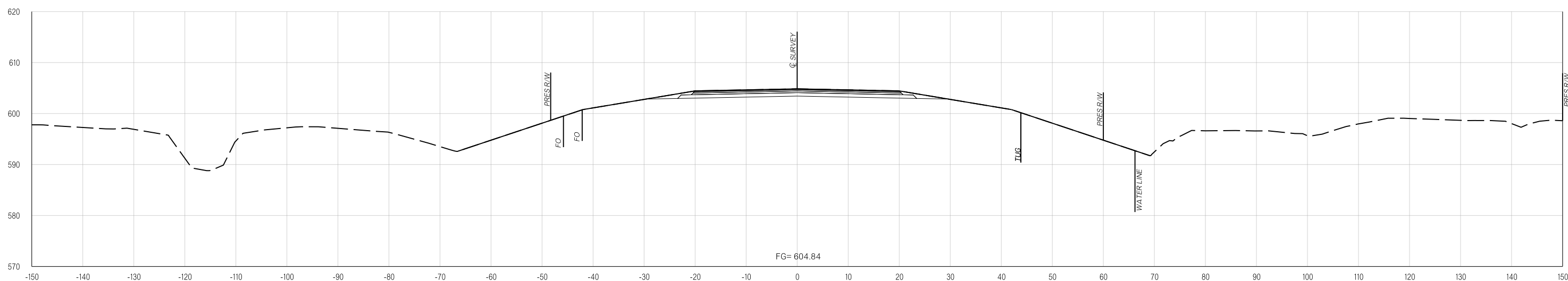
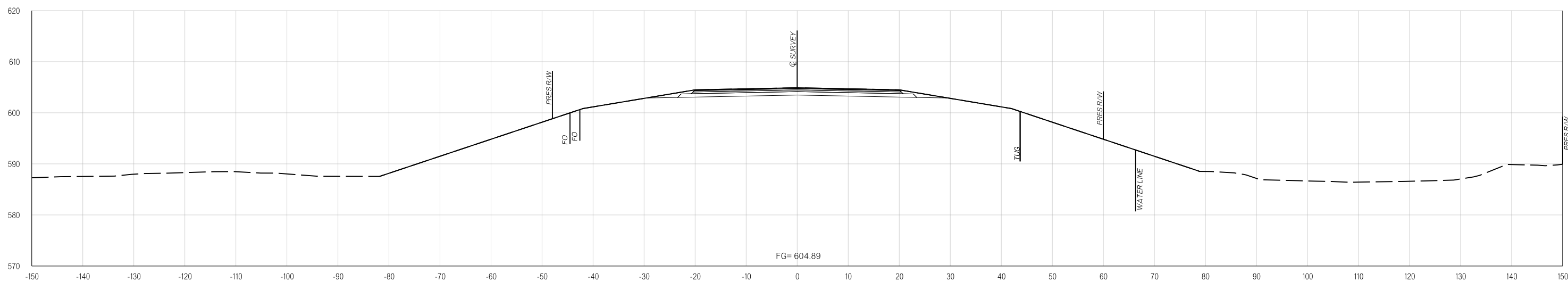


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1221+00.00

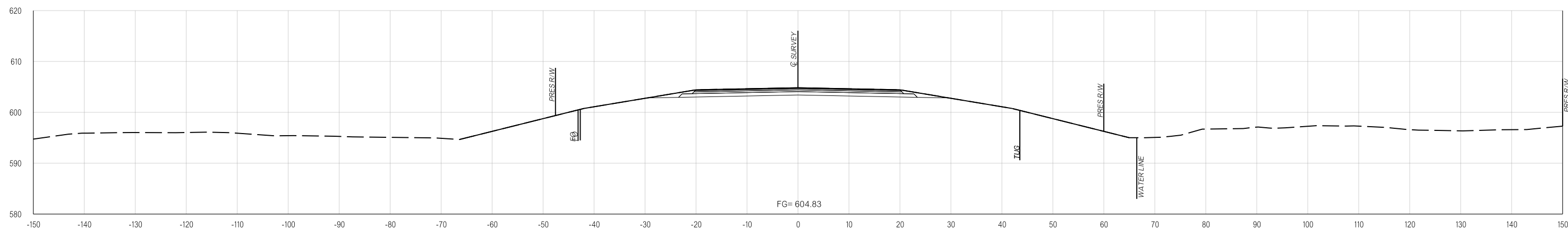
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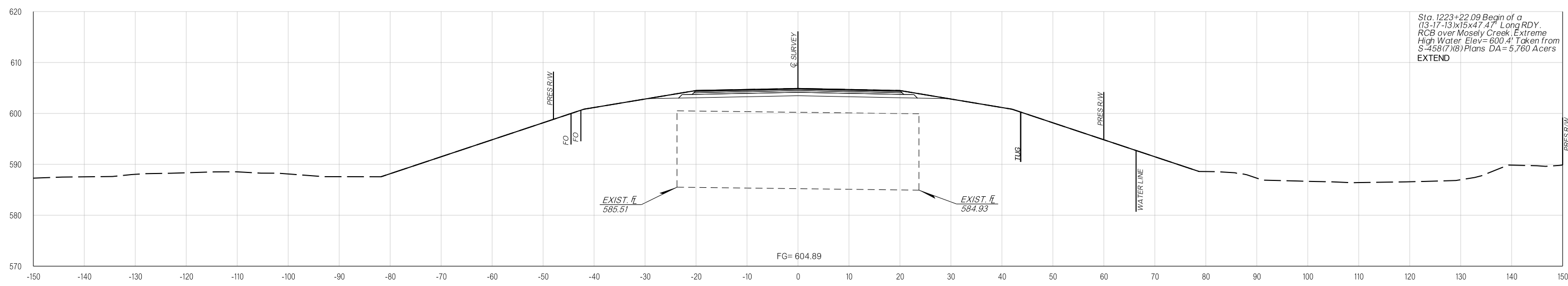
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1224+00.00



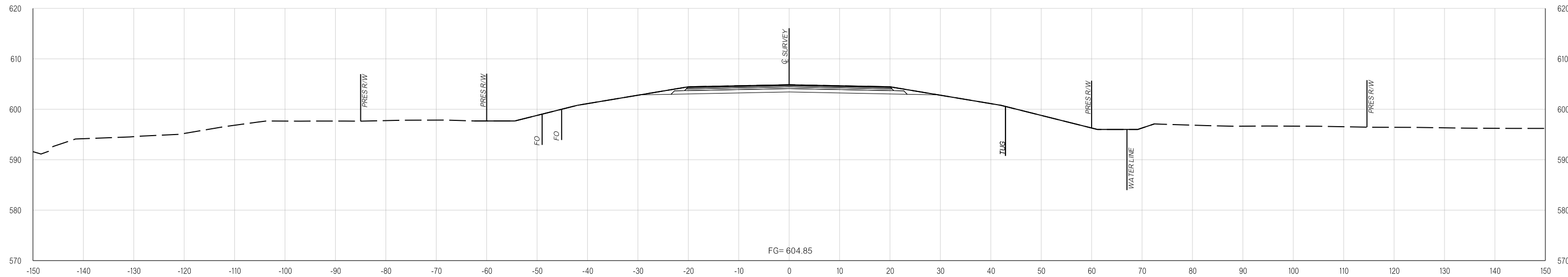
Sta. 1223+22.09 Begin of a (13-17-13)x15x47.47' Long RDY. RCB over Mosely Creek - Extreme High Water Elev=600.4' Taken from S-458(7)(8) Plans DA=5,760 Acres EXTEND

1223+46.00

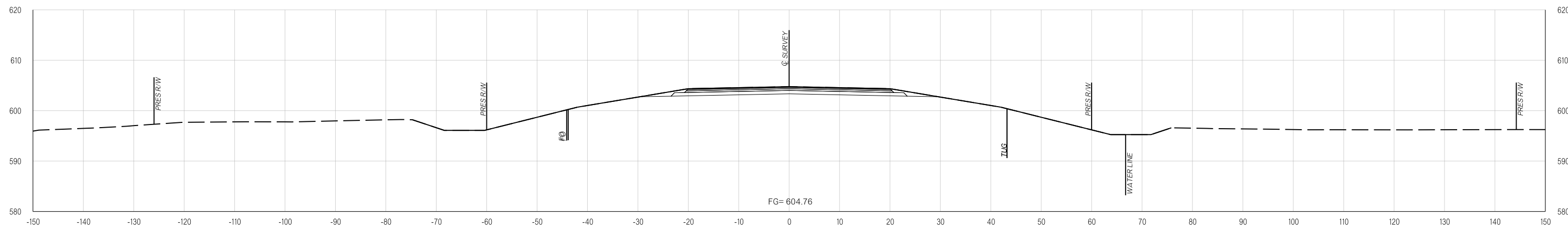
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02-03-20

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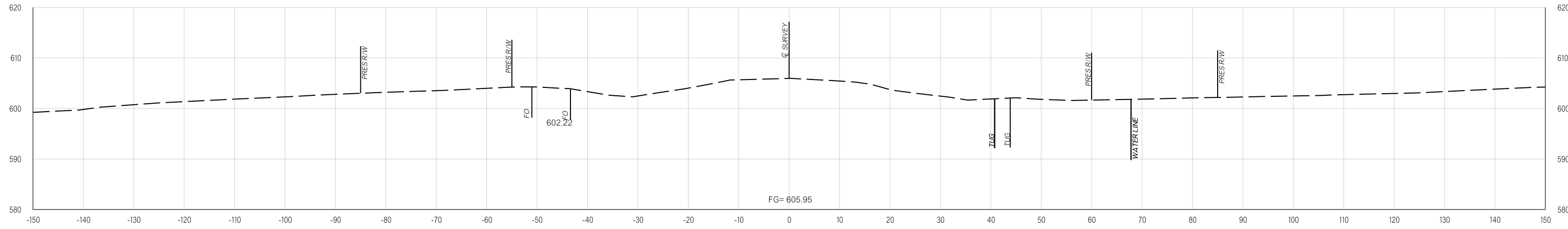
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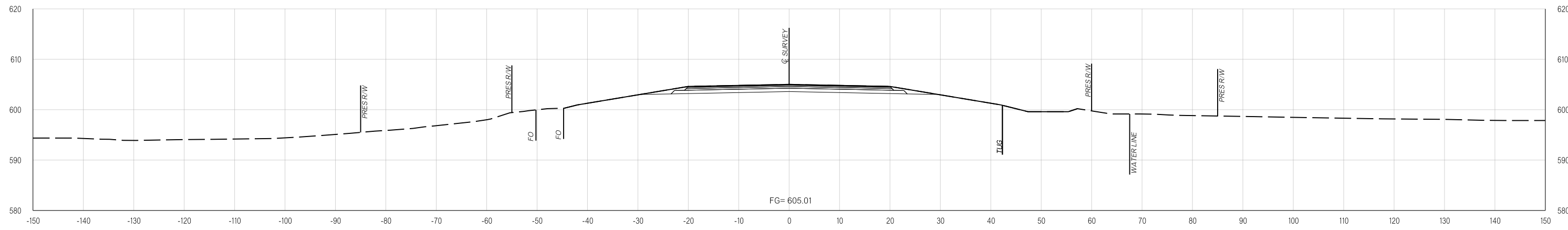
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PROPOSED R/W

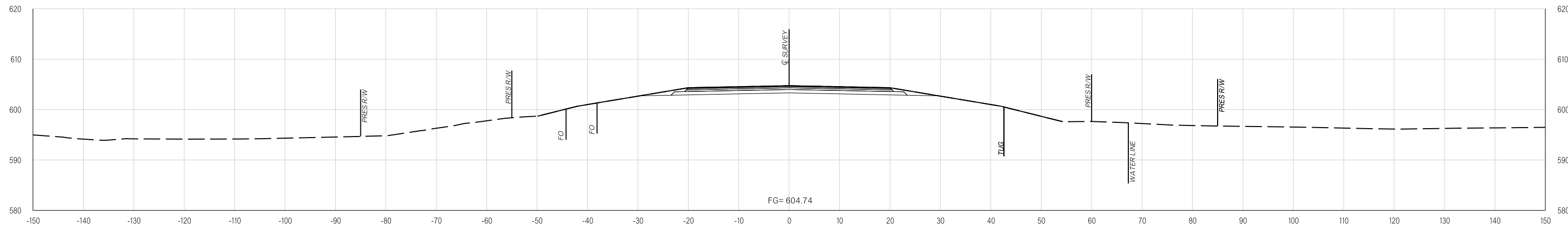
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1229+00.00



1228+00.00



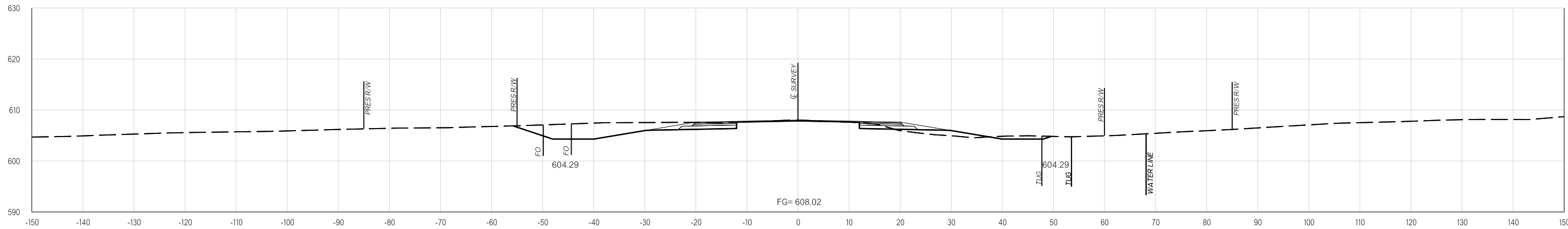
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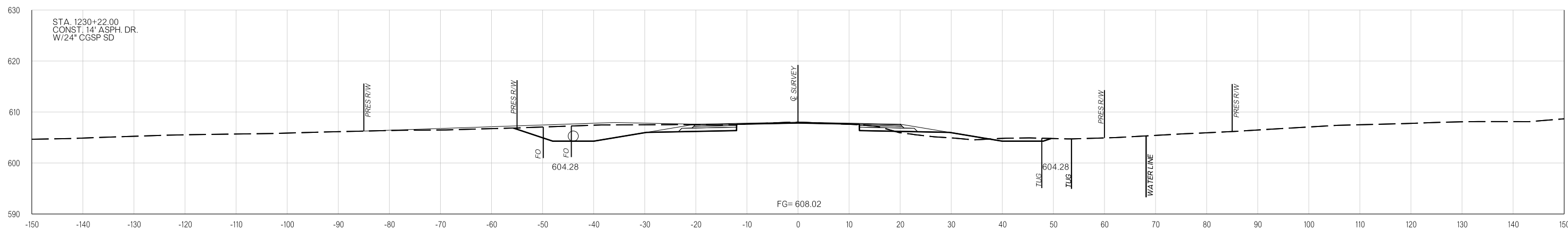
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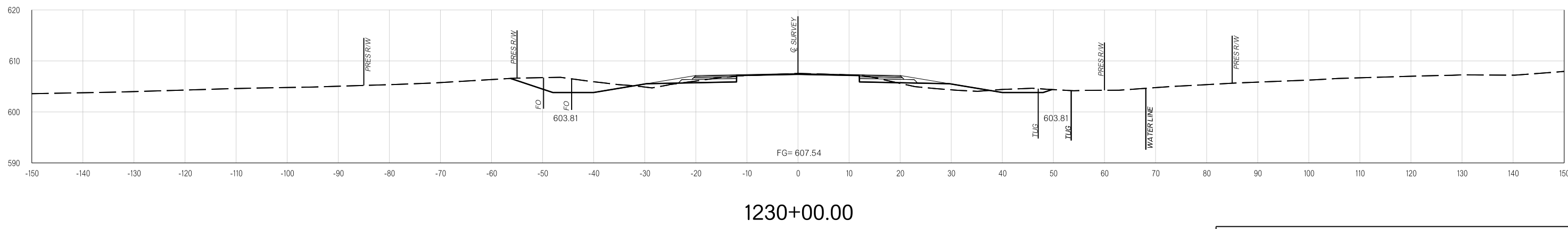
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1230+22.47



1230+22.00

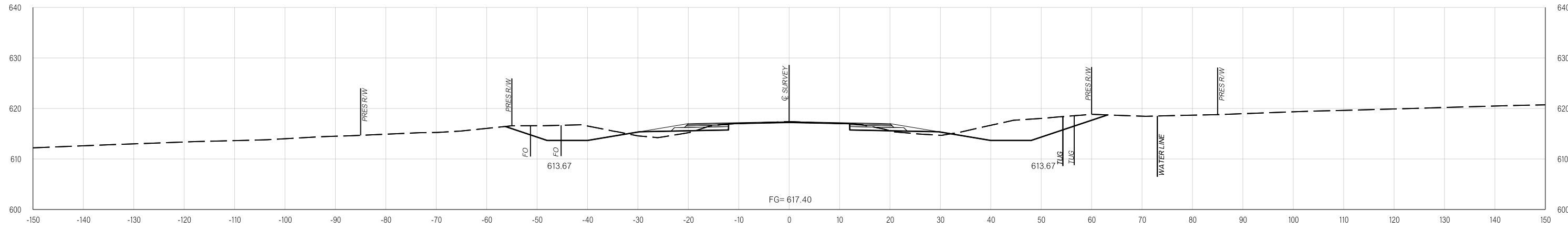


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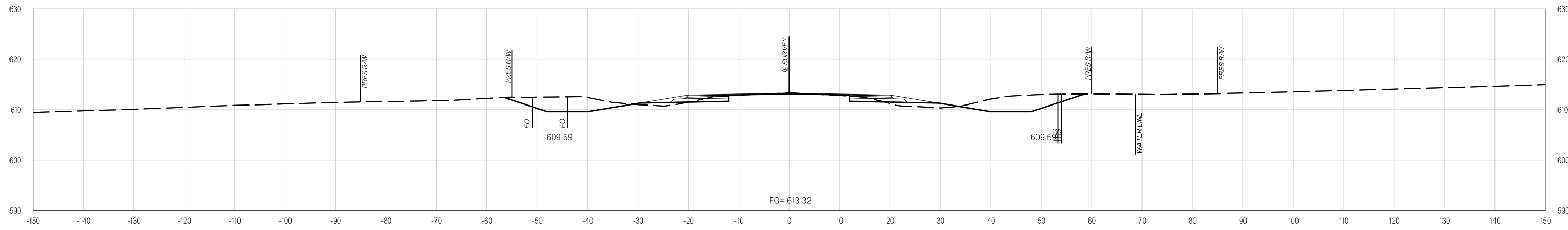
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PROPOSED R/W

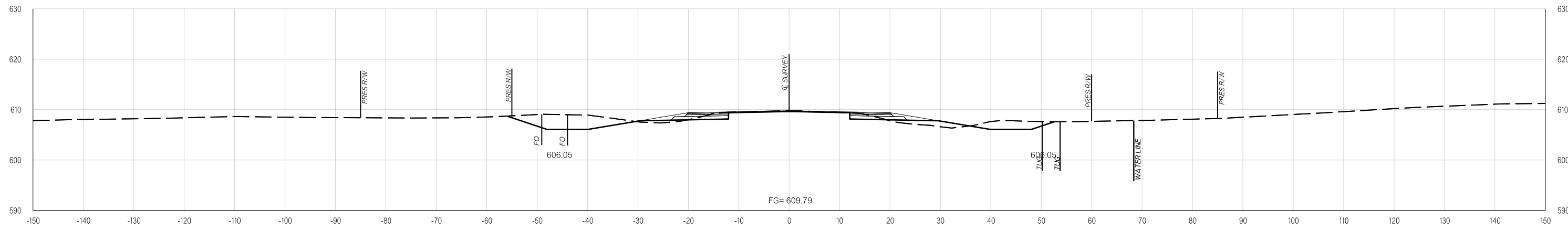
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1233+00.00



1232+00.00



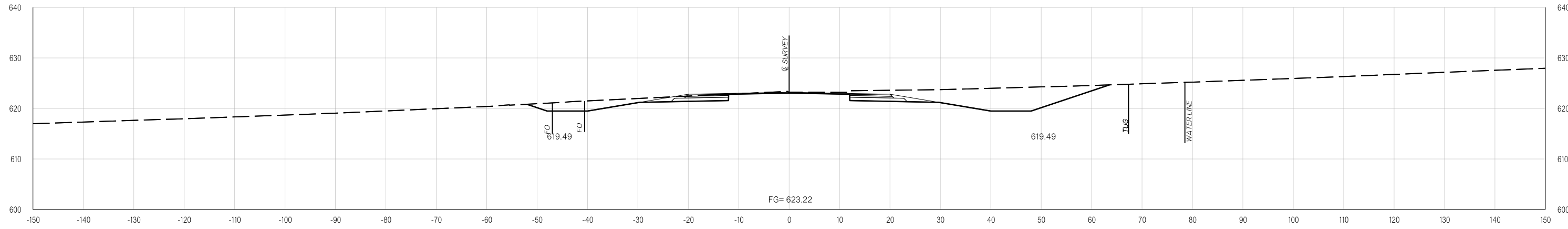
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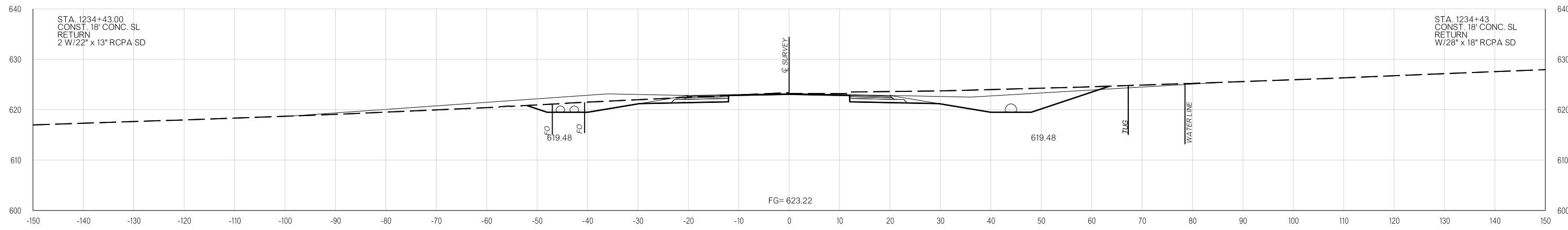
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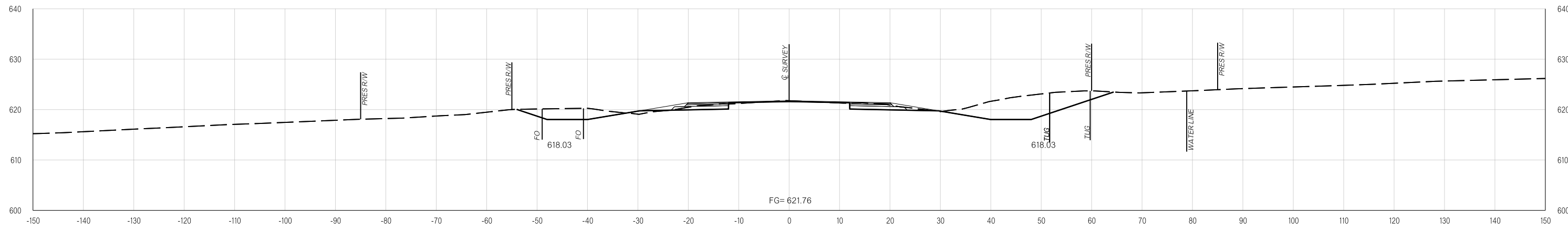
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1234+43.11



1234+43.00



1234+00.00

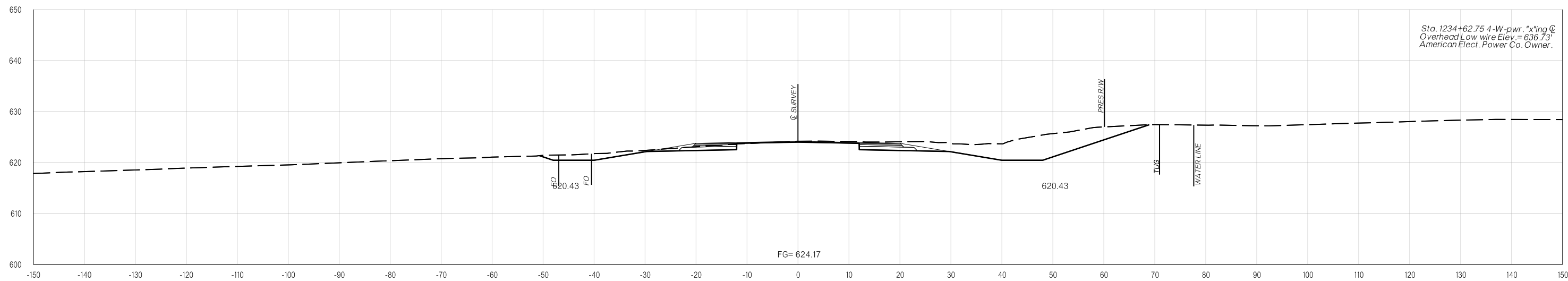
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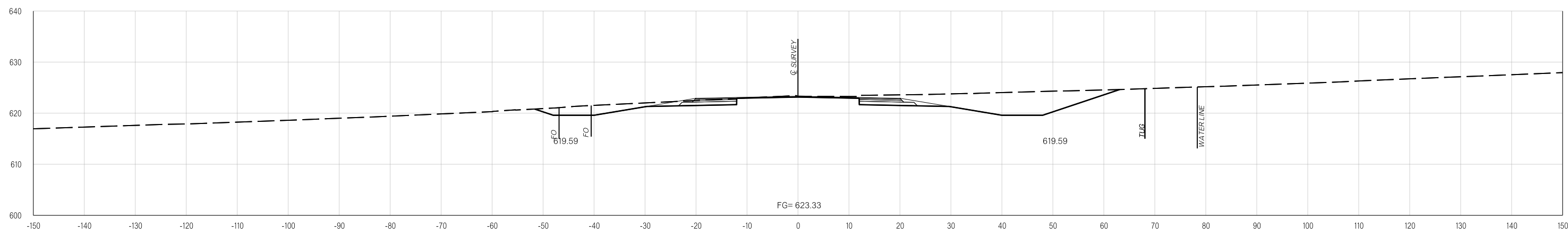
PROPOSED R/W

02-03-20

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02-03-20



1234+62.76

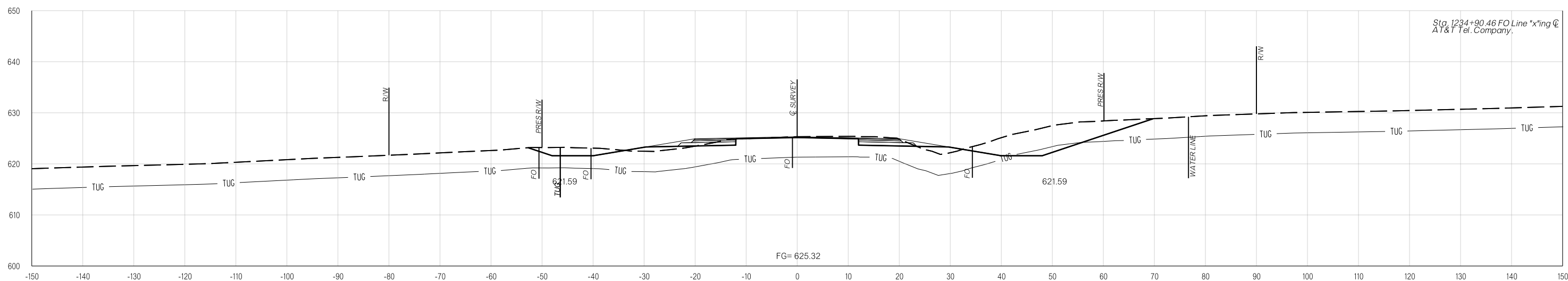


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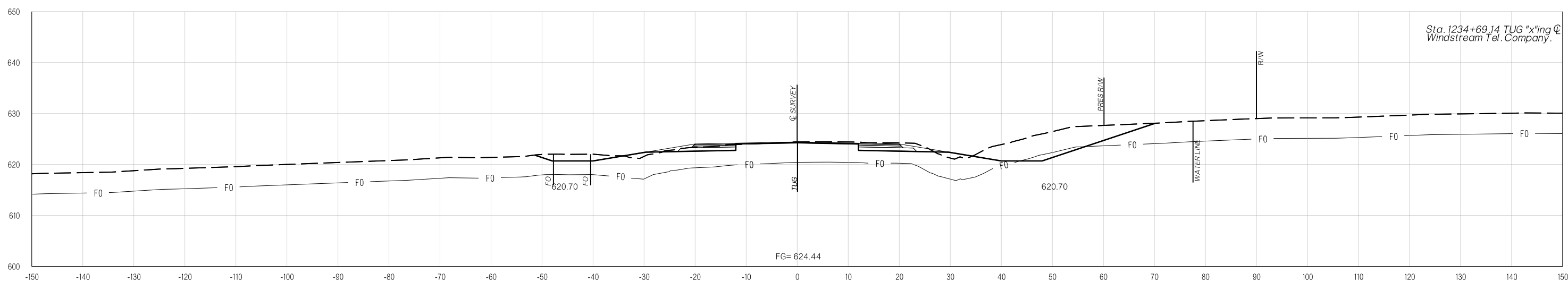
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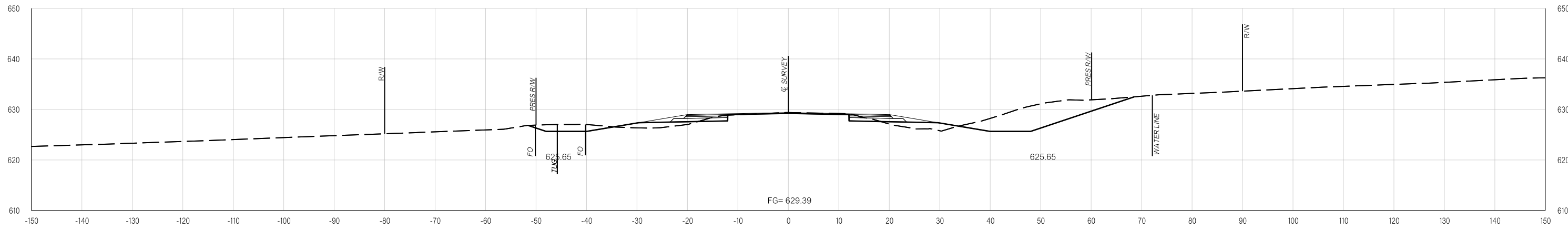


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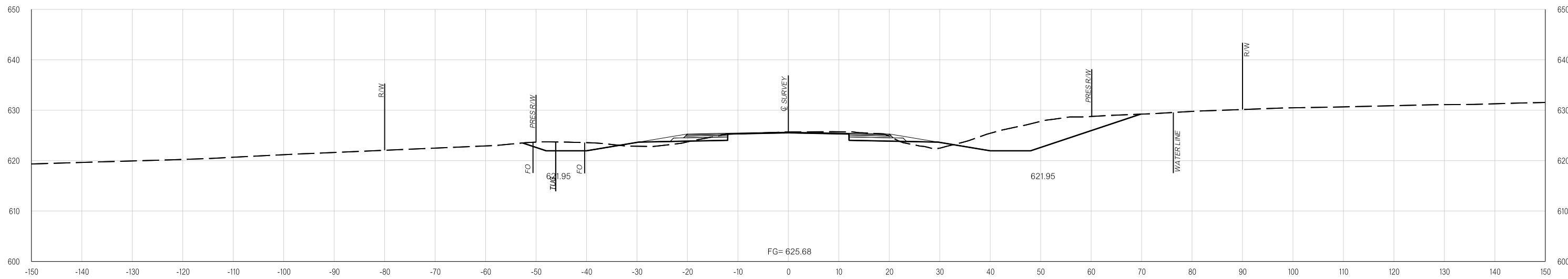


1234+69.14

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1236+00.00

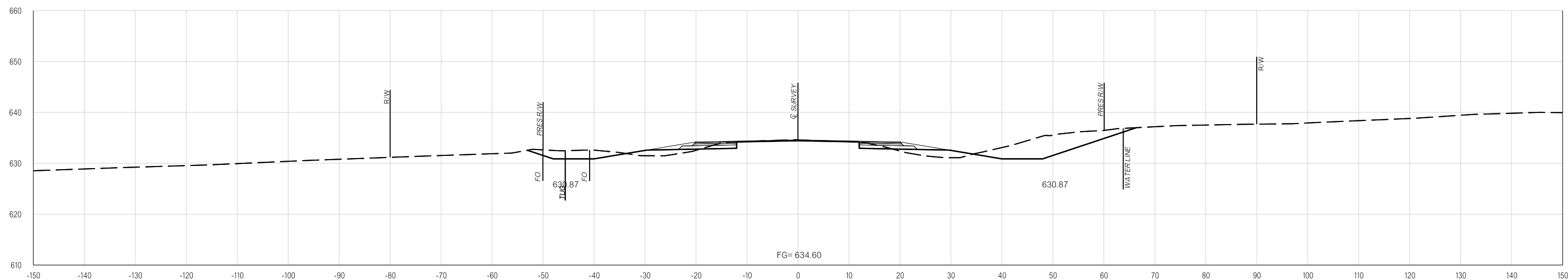


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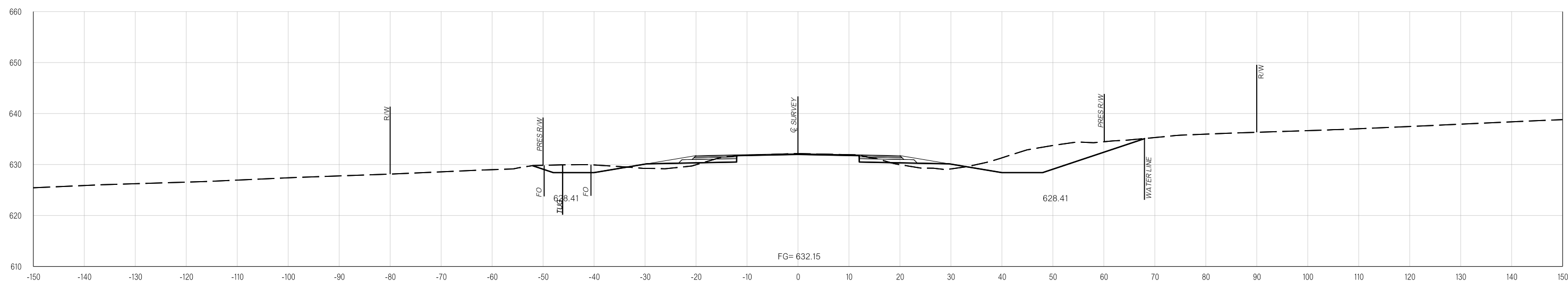
PROPOSED R/W

02-03-20

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1238+00.00



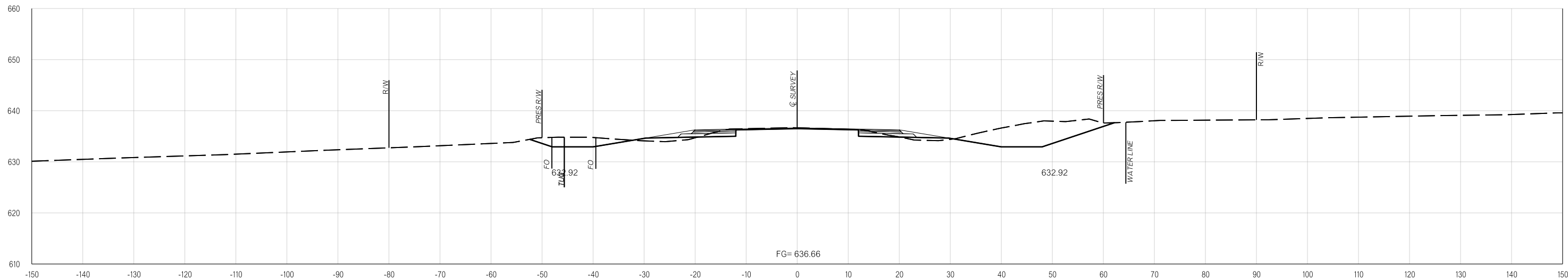
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PROPOSED R/W

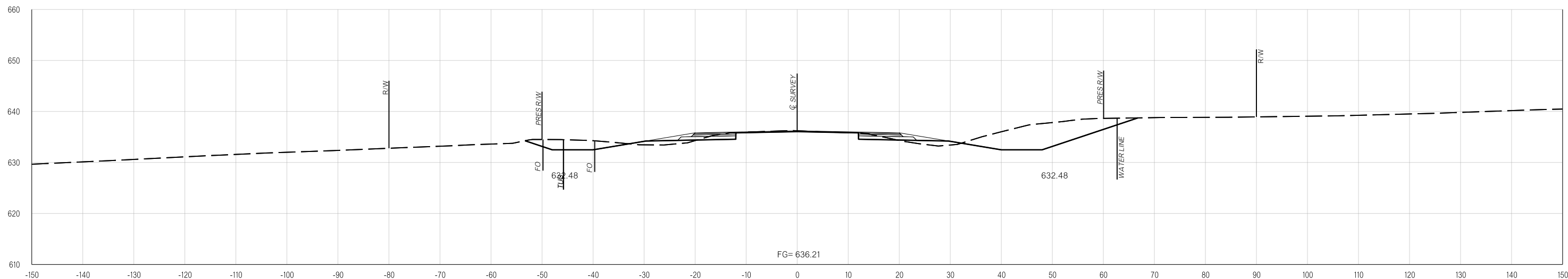
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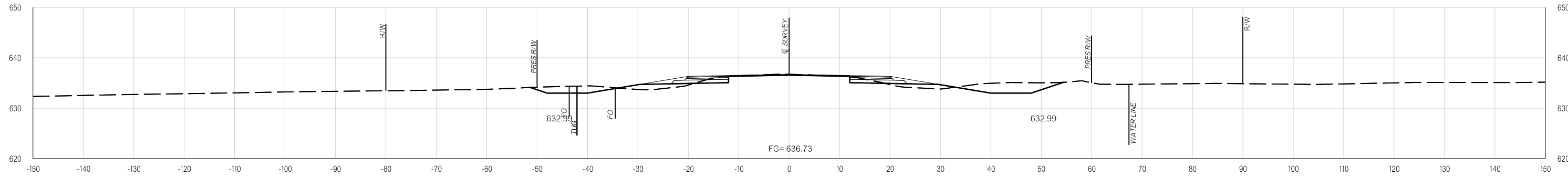


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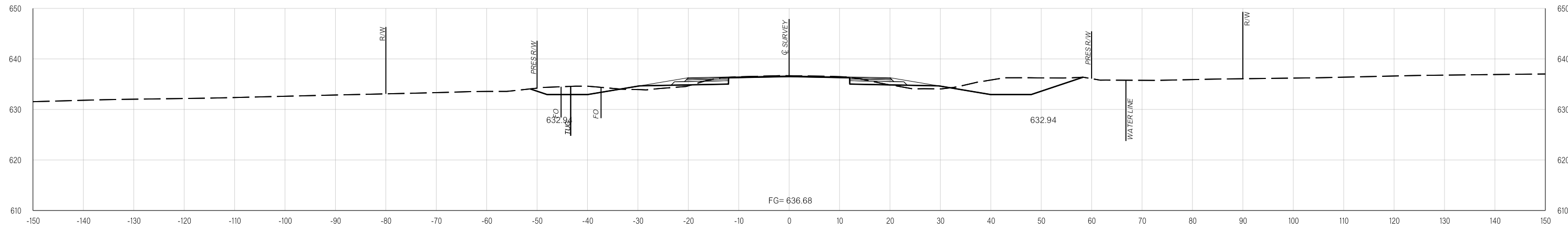


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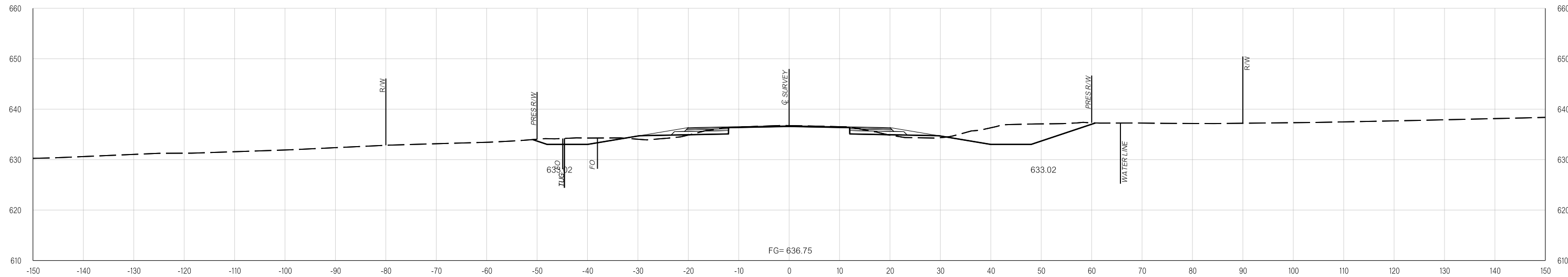
**PROPOSED
R/W**
02-03-20



1243+00.00



1242+00.00



1241+00.00

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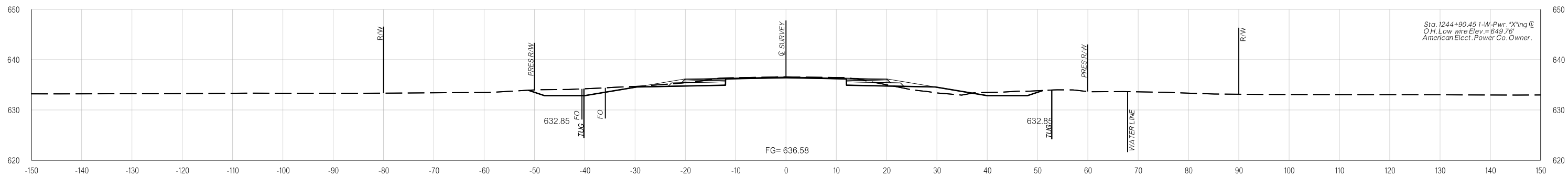
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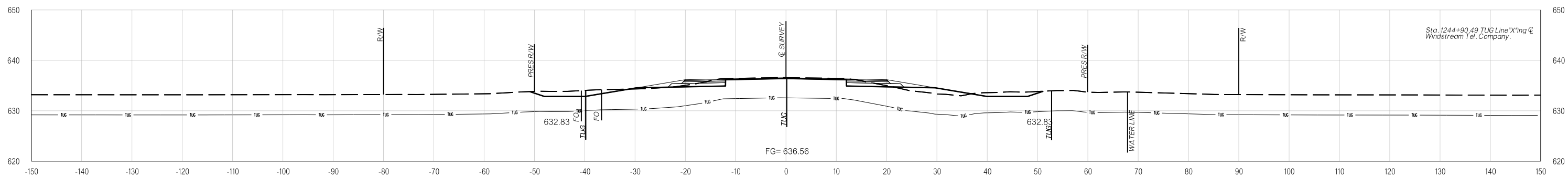
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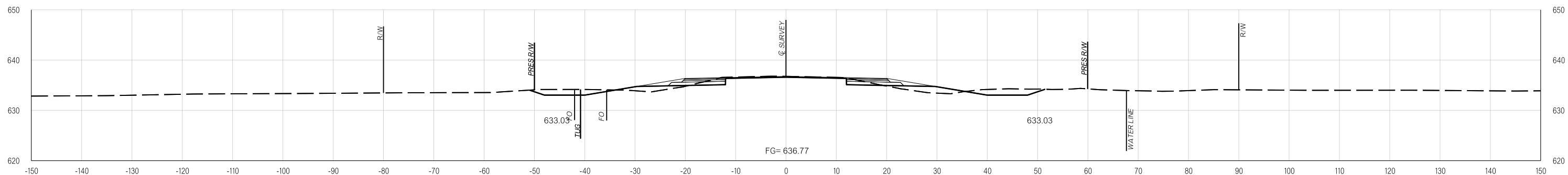
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1244+90.62



1244+82.79



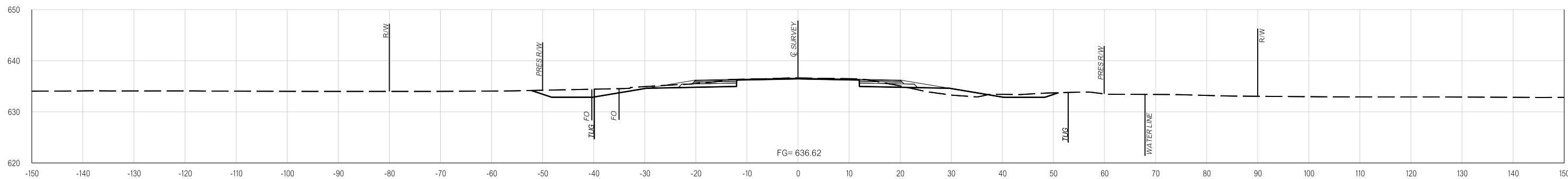
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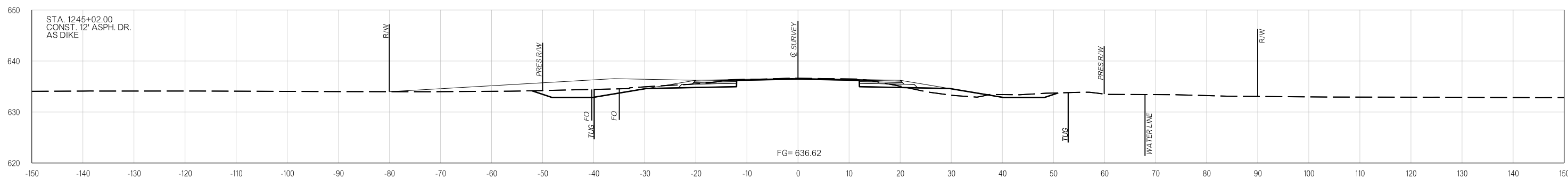
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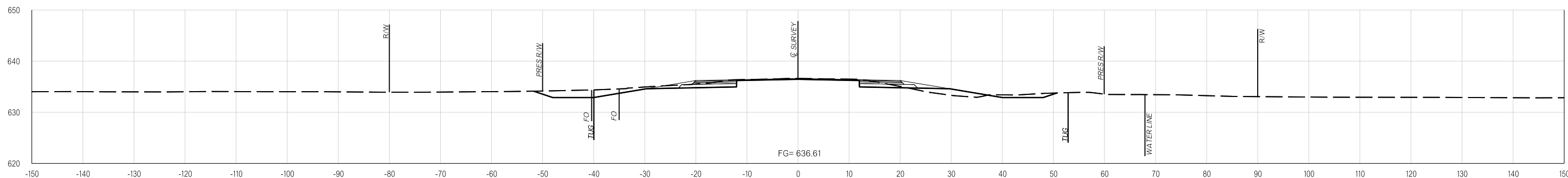
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1245+02.61



1245+02.00



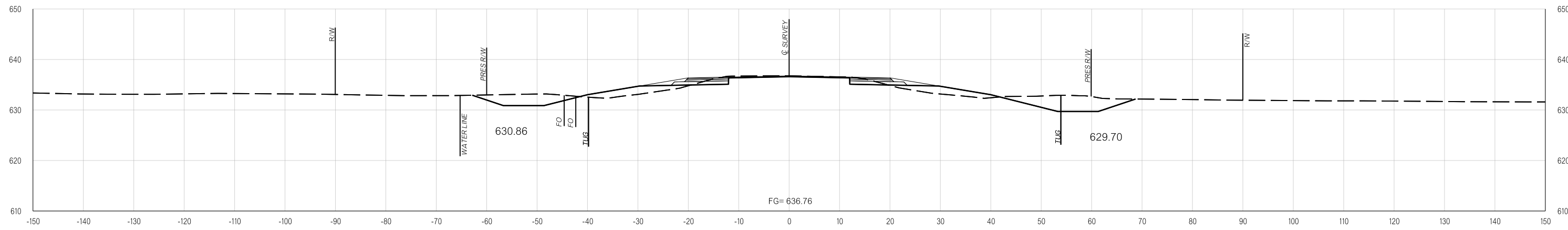
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PROPOSED R/W

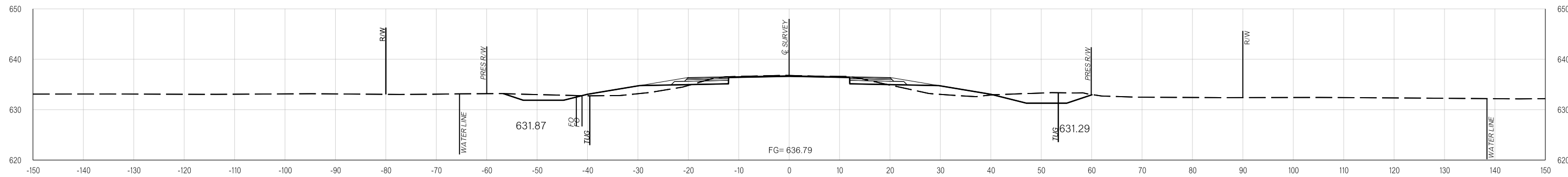
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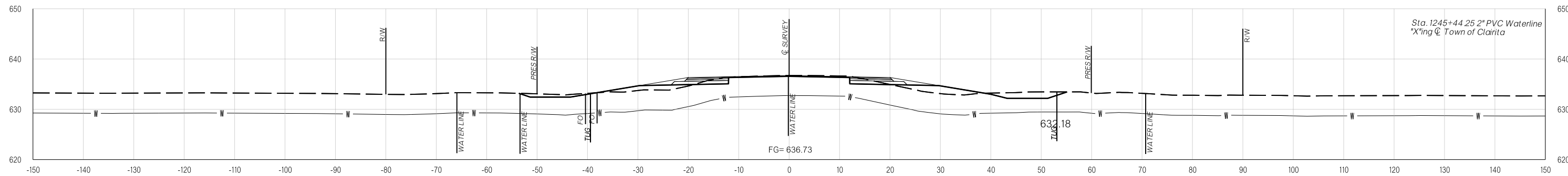
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1247+00.00



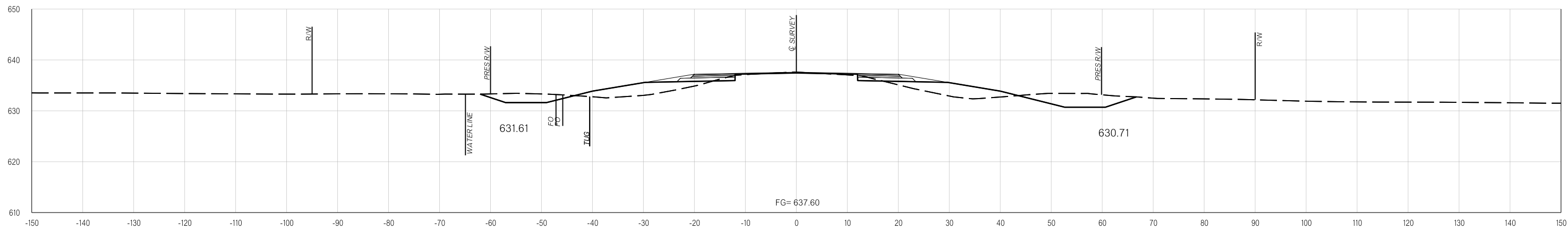
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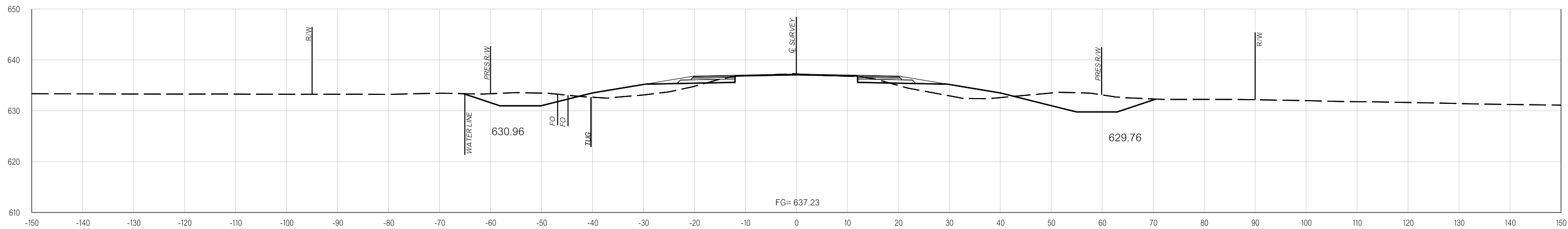
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PROPOSED R/W

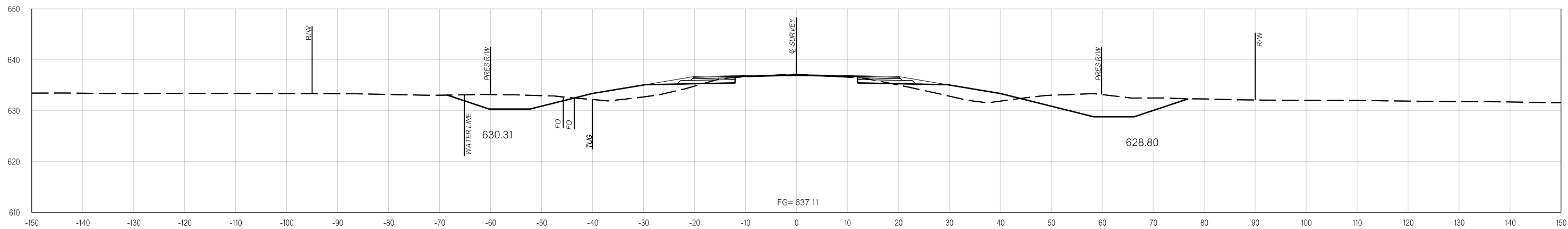
02-03-20



1250+00.00



1249+00.00



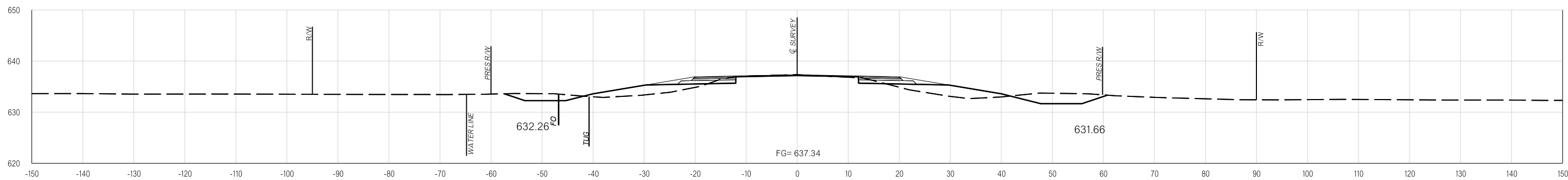
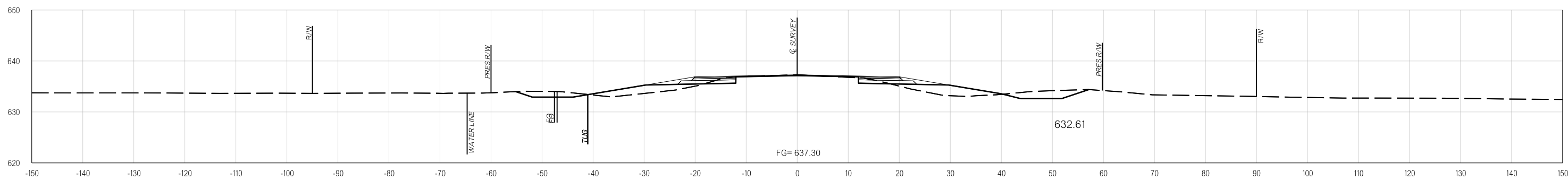
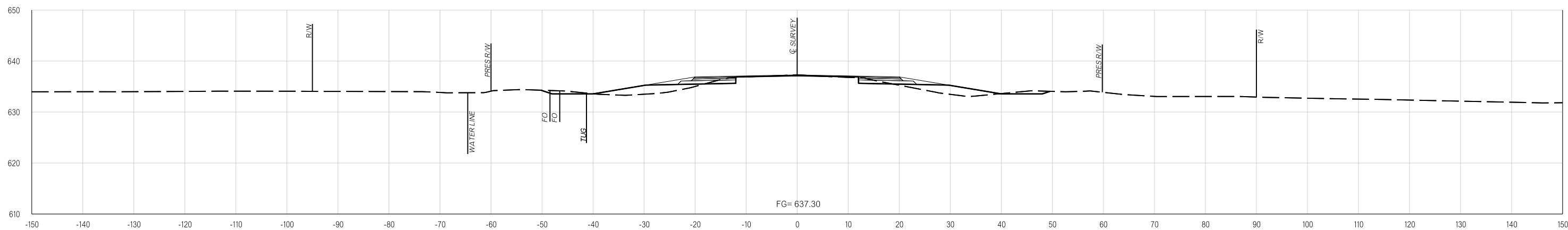
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02-03-20

PROPOSED R/W

02-03-20

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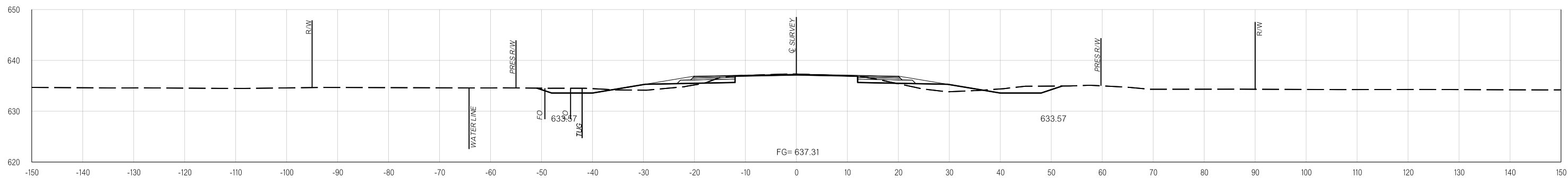


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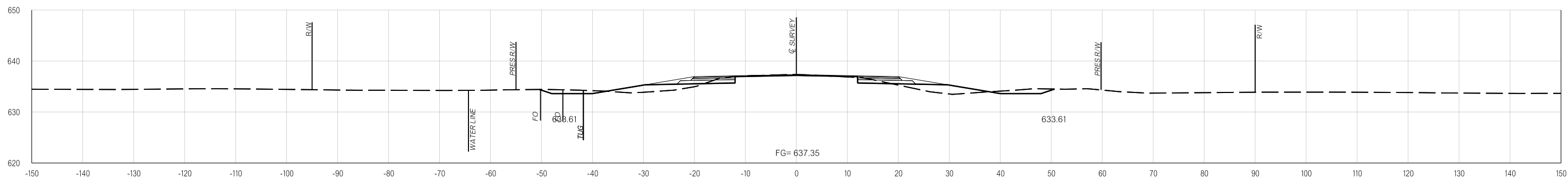
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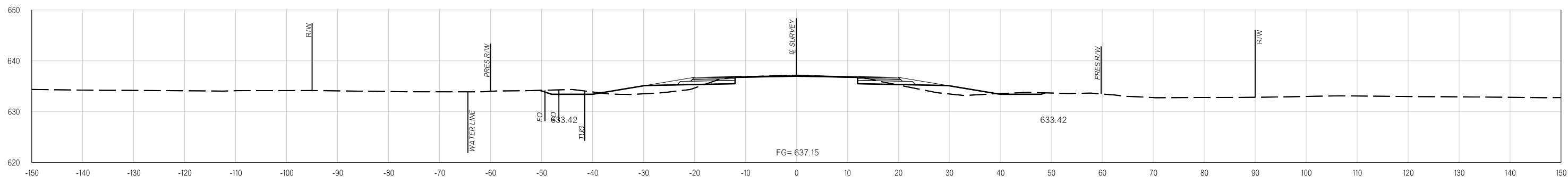
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1256+00.00



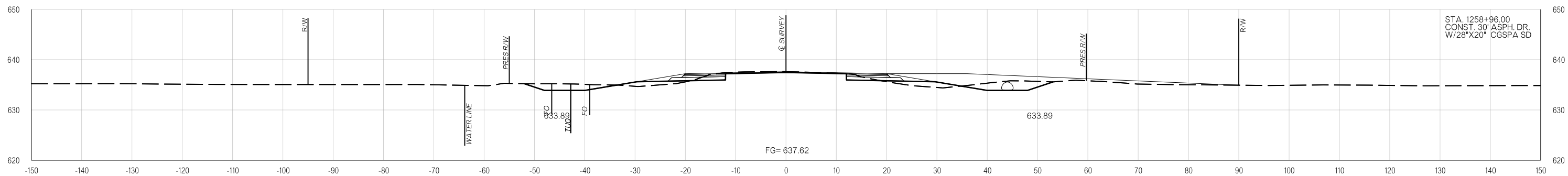
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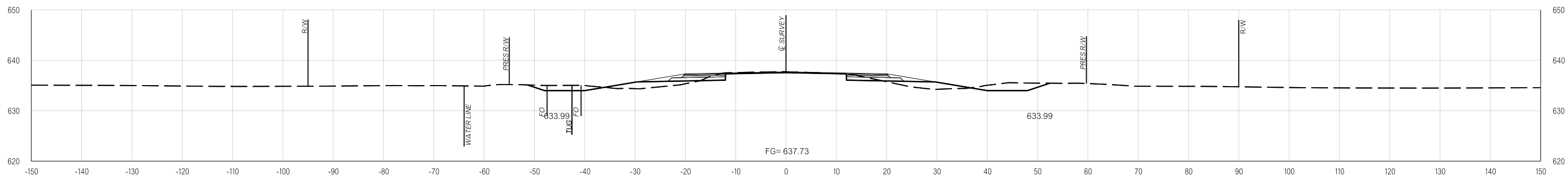
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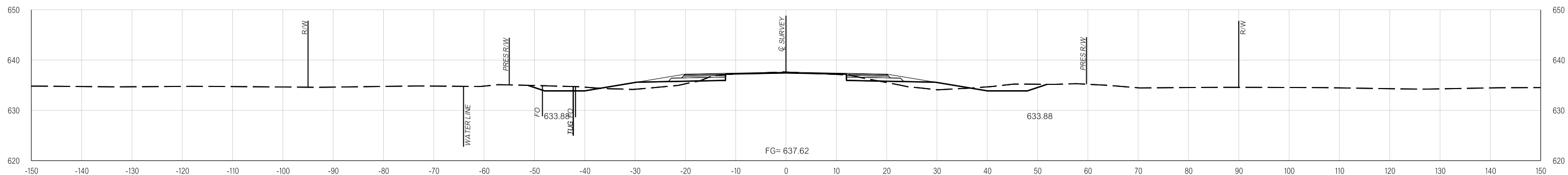
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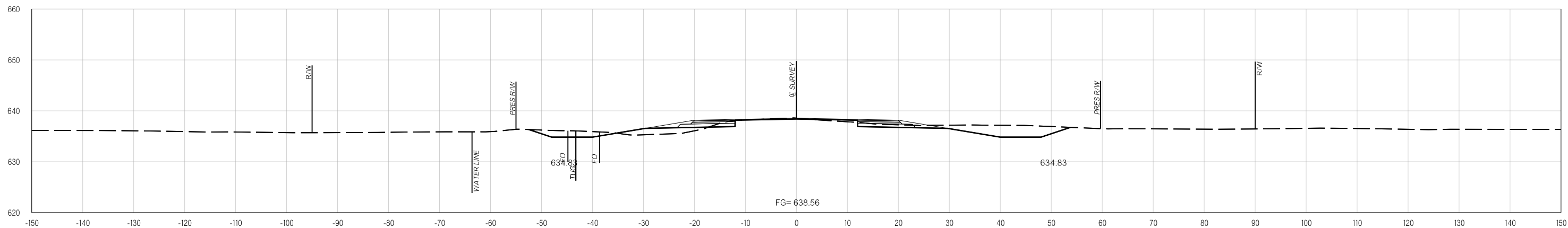
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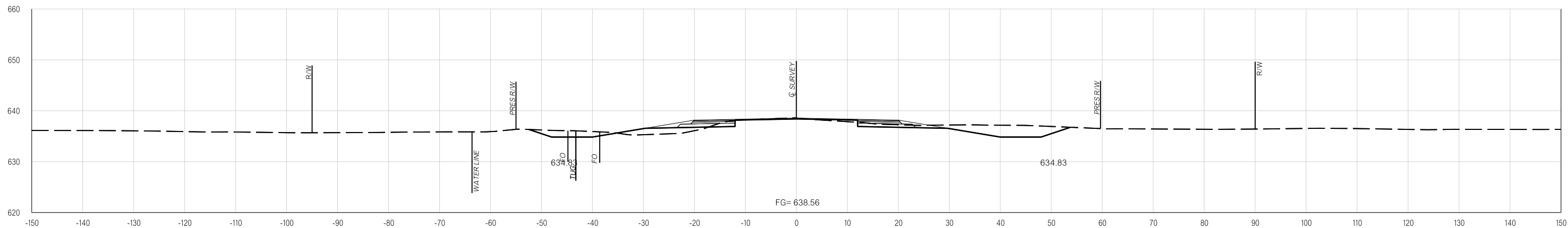
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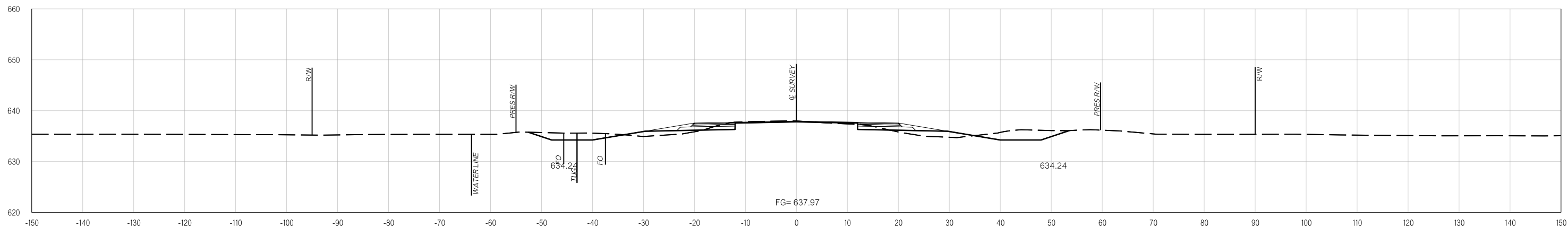
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1260+91.43



1260+91.00



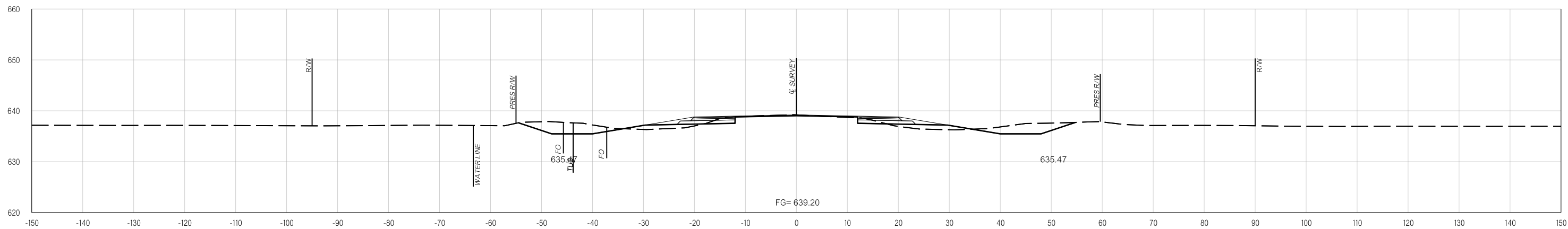
1260+00.00

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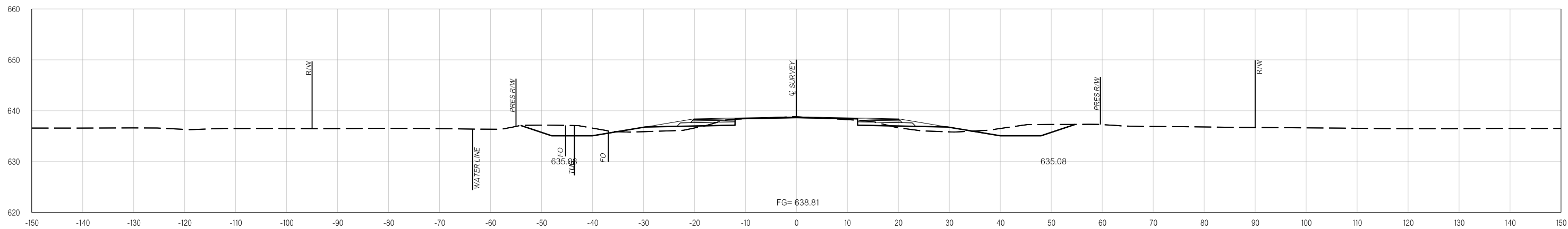
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PROPOSED R/W

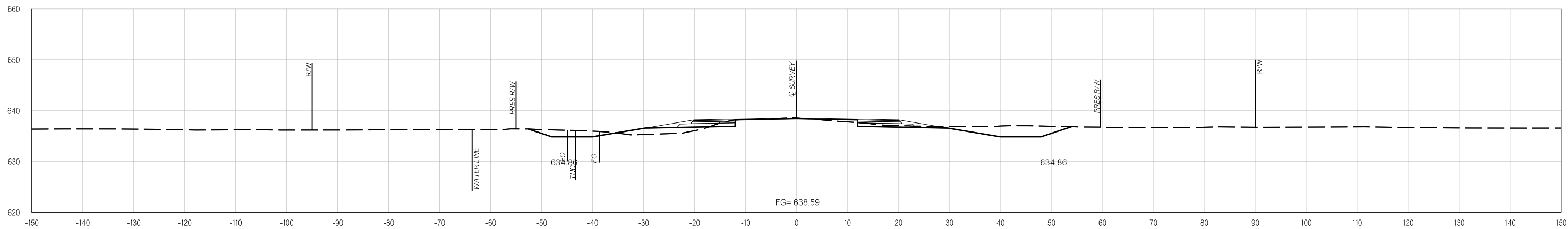
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1263+00.00



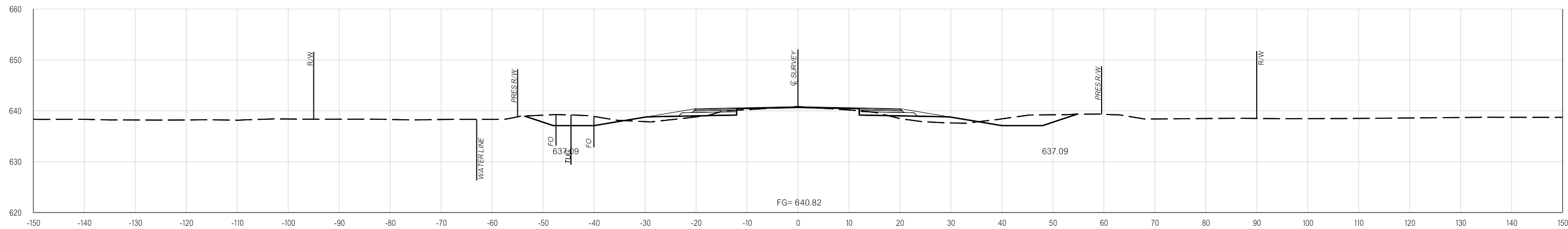
1262+00.00



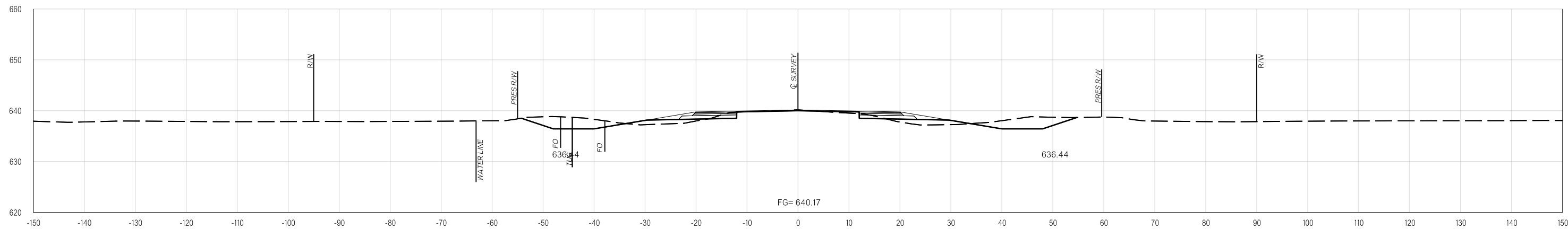
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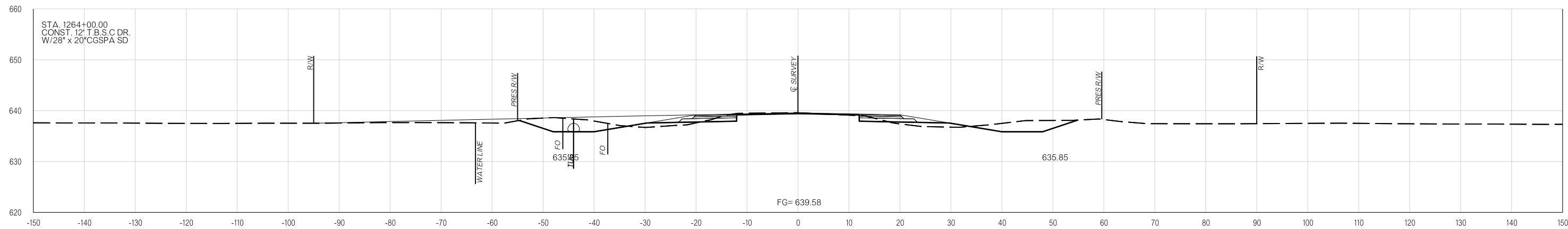
02-03-20



1266+00.00



1265+00.00



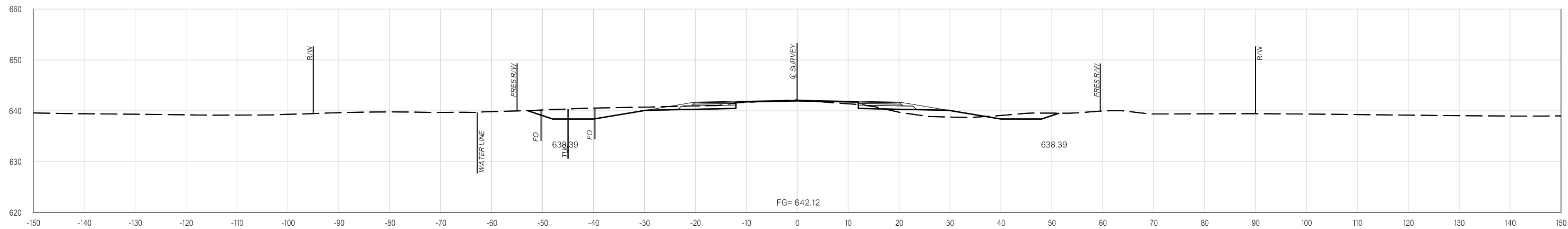
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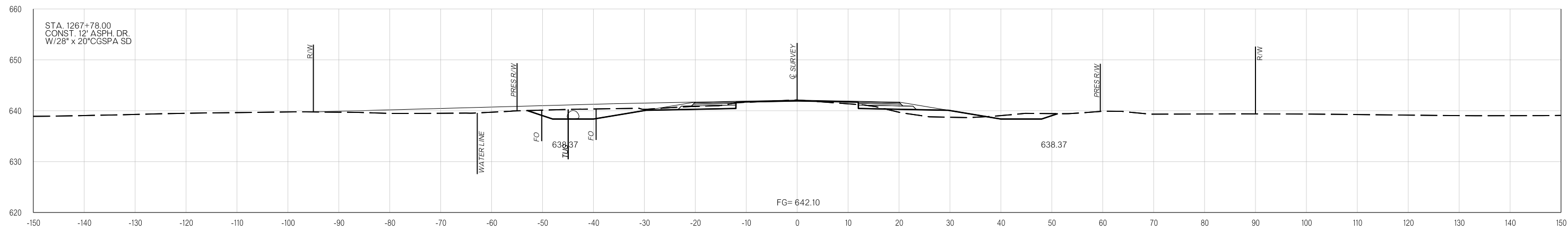
11-20-20

PROPOSED R/W

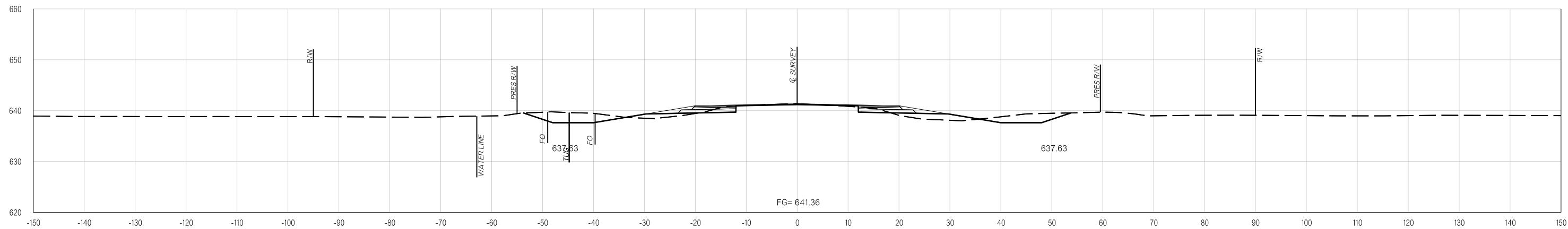
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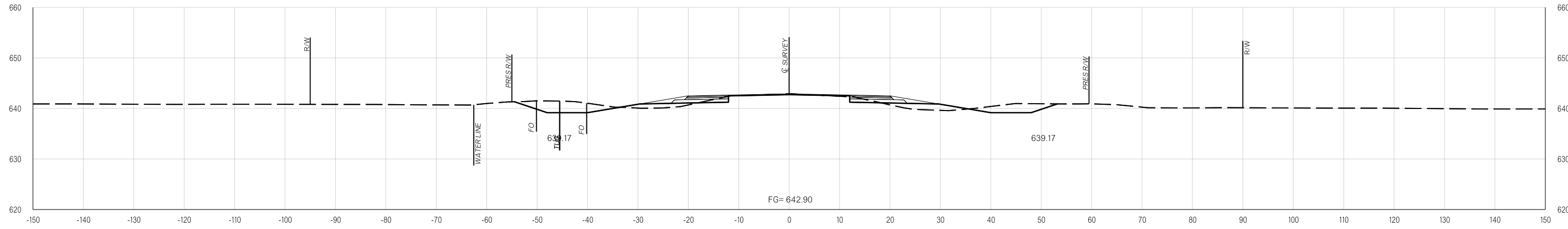
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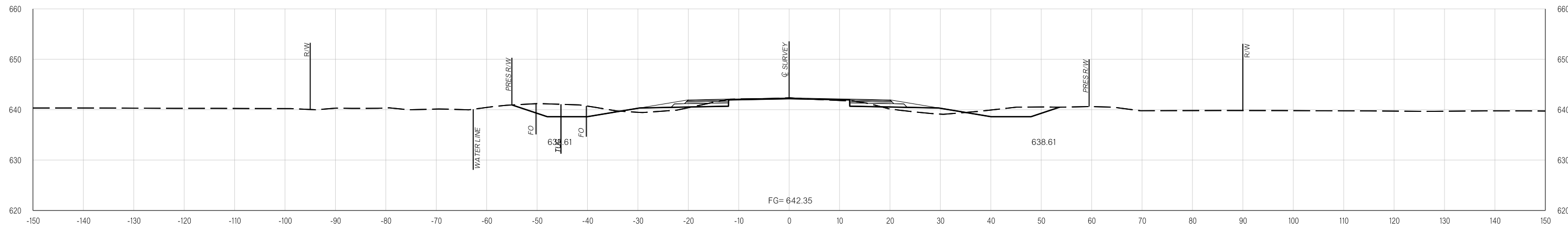
1267+00.00

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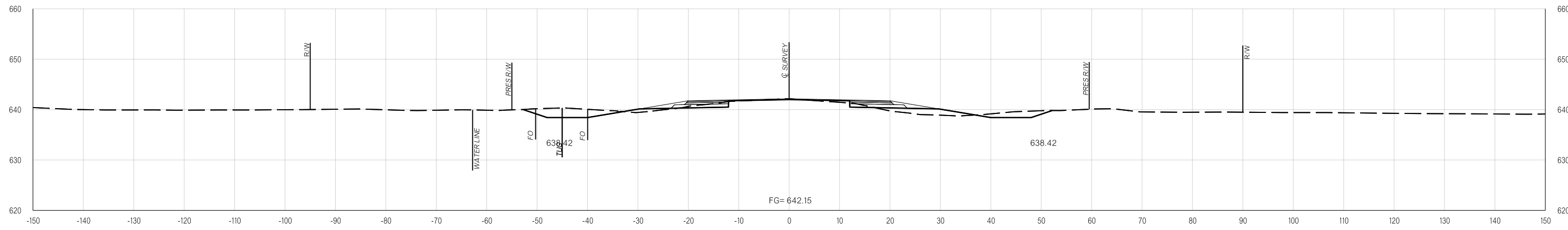
02-03-20



1270+00.00

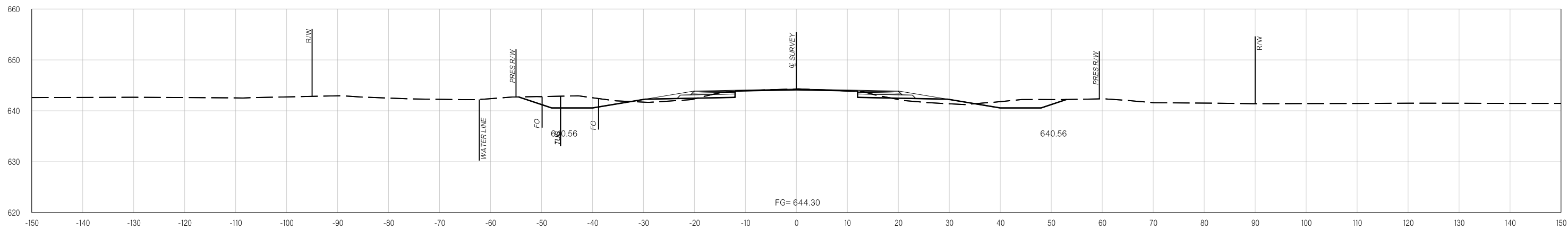


1269+00.00

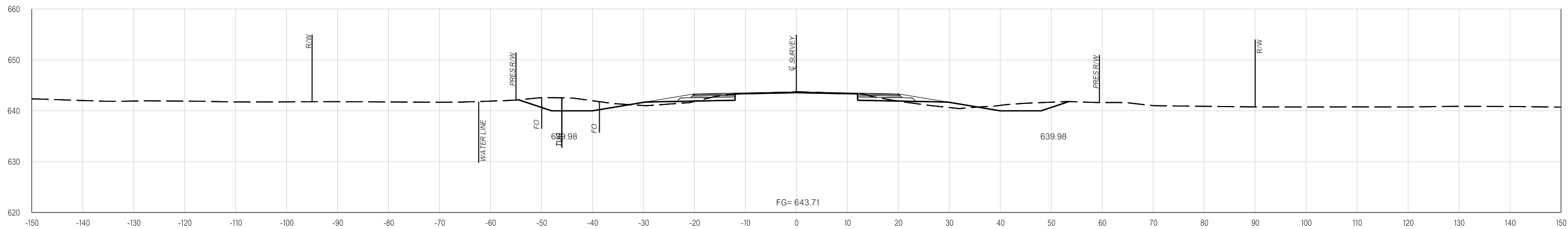


1268+00.00

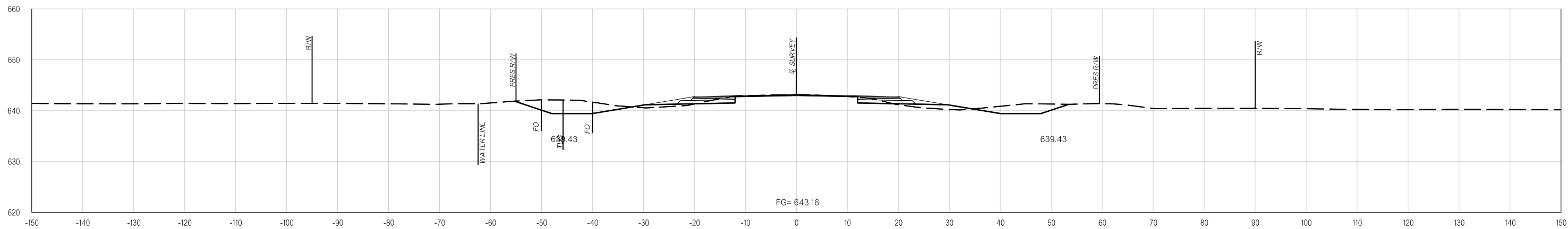
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1273+00.00



1272+00.00

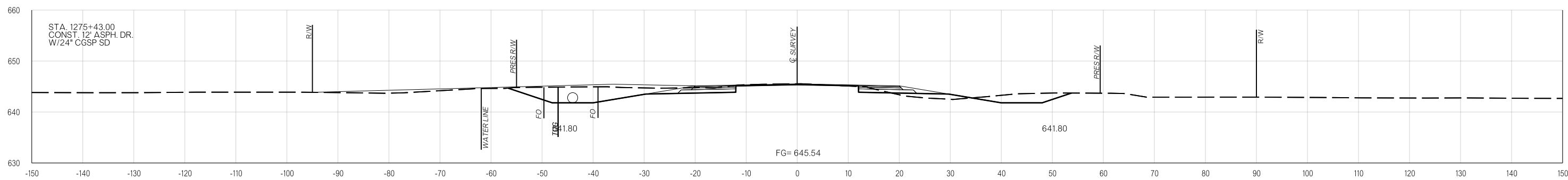


1271+00.00

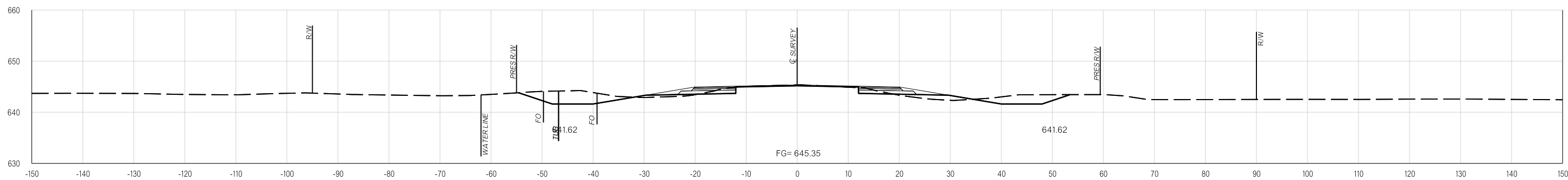
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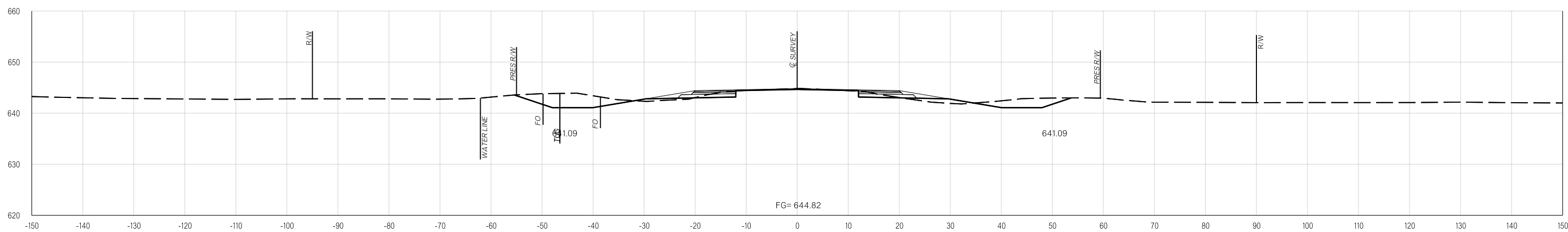
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1275+43.00



1275+00.00

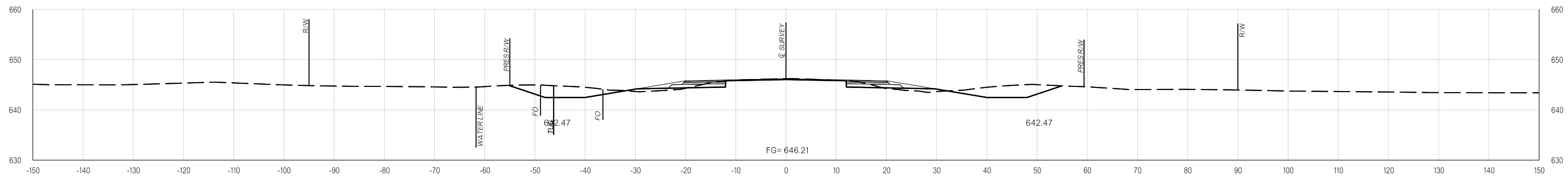


1274+00.00

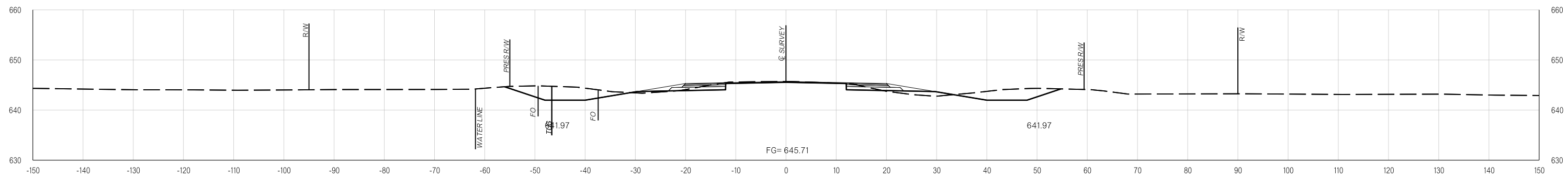
PROPOSED R/W

02-03-20

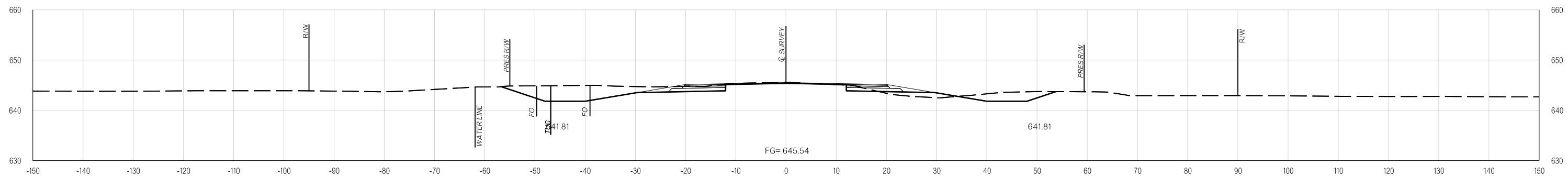
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1277+00.00

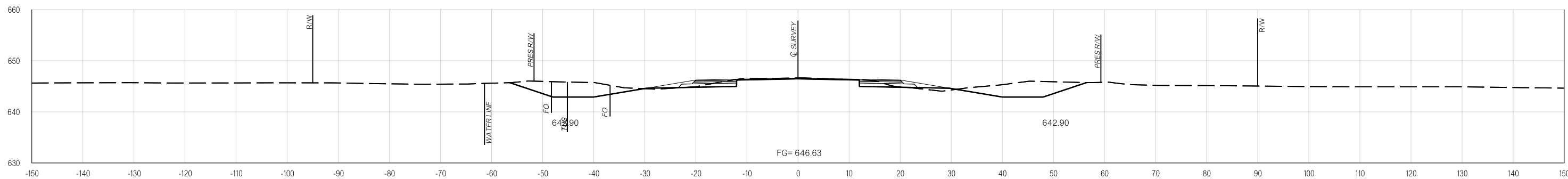


1276+00.00

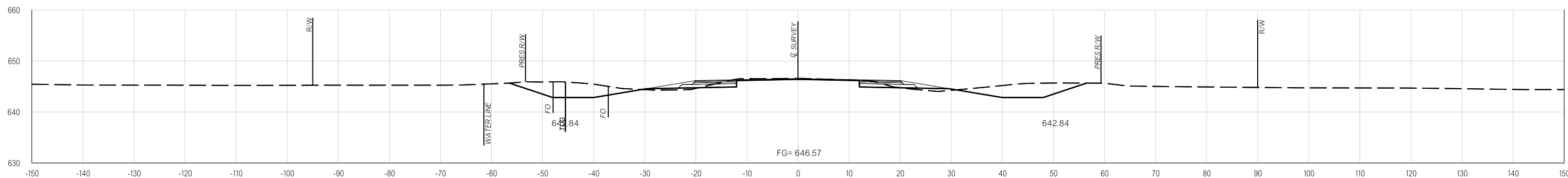


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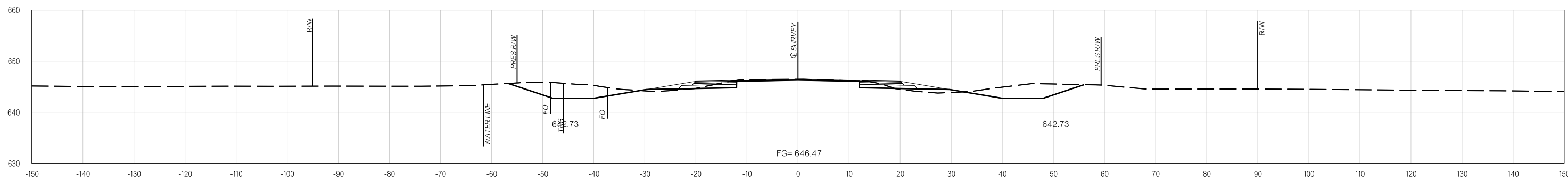
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1280+00.00



1279+00.00

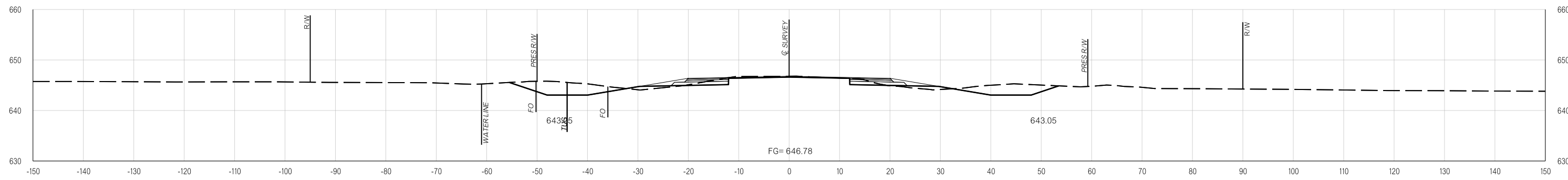


1278+00.00

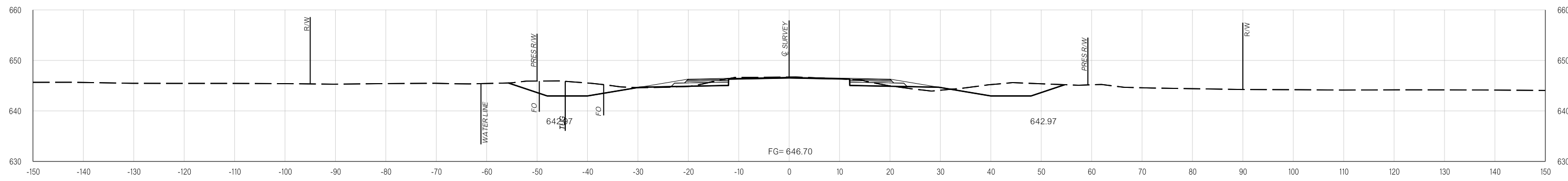
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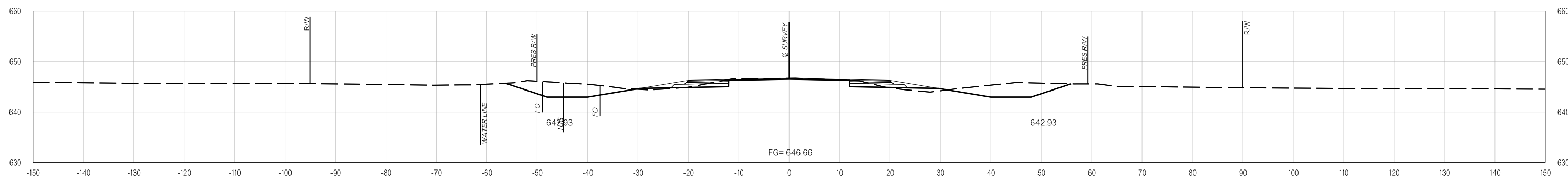
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1283+00.00



1282+00.00



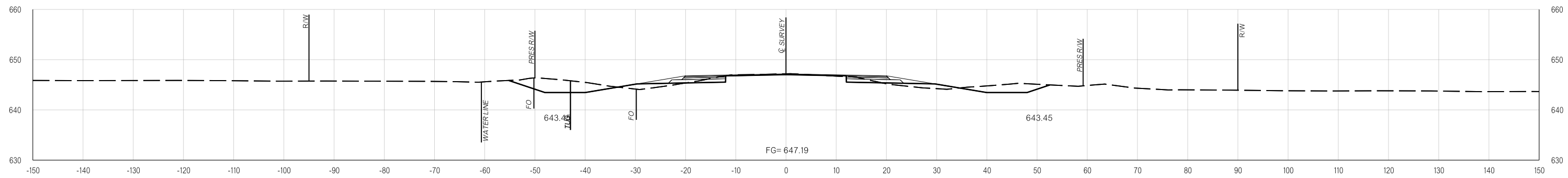
1281+00.00

PROPOSED R/W

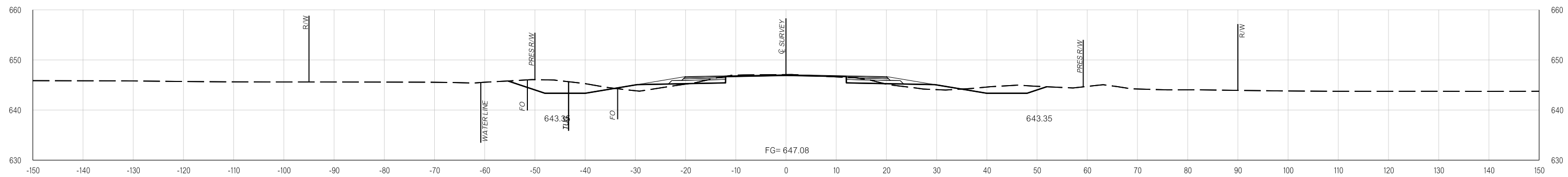
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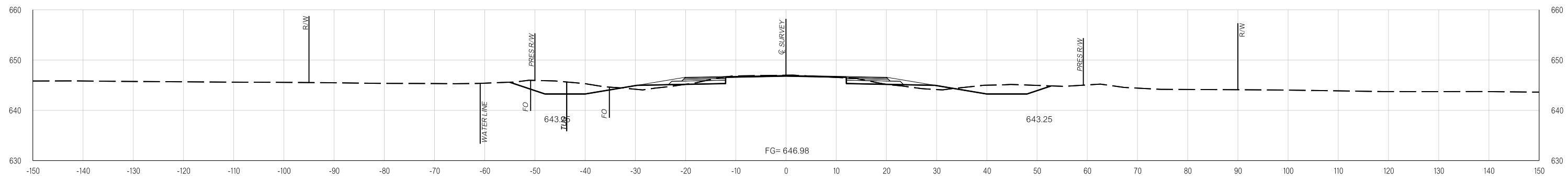
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1286+00.00



1285+00.00



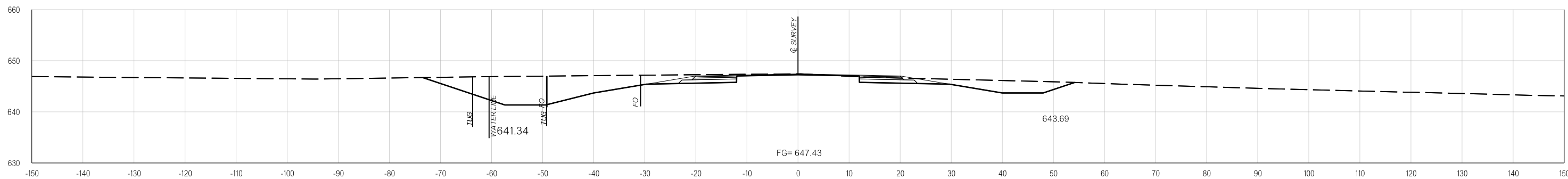
1284+00.00

PROPOSED R/W

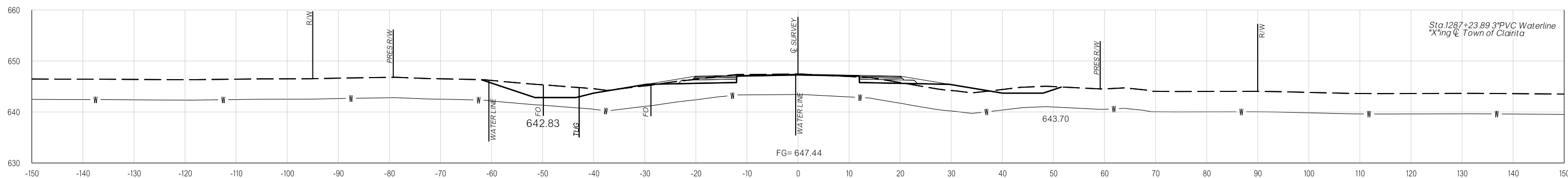
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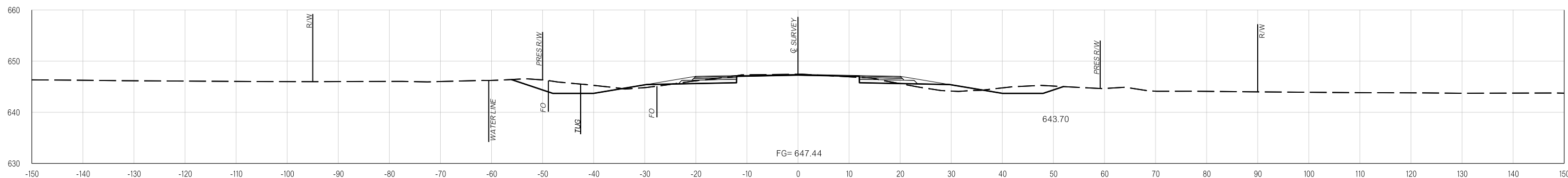
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1287+64.90



1287+23.89

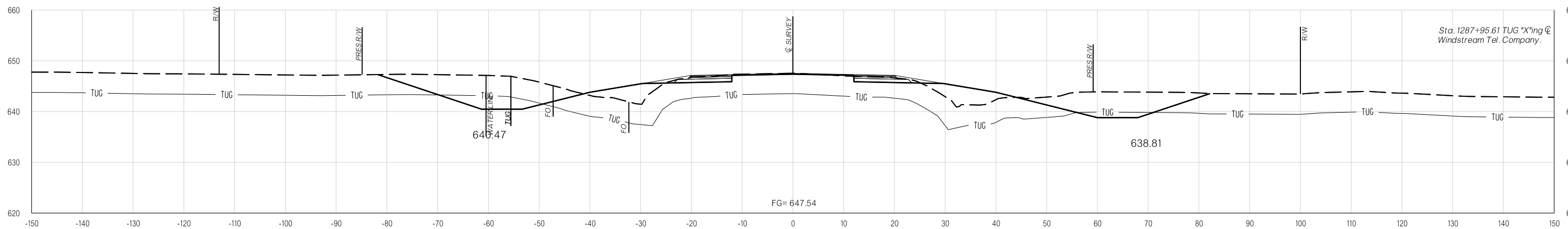


1287+00.00

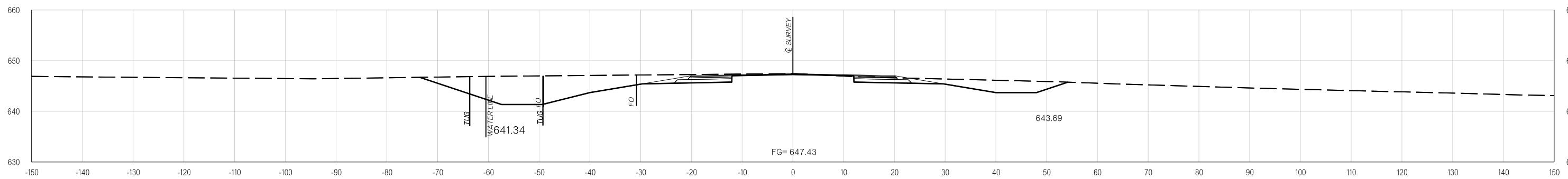
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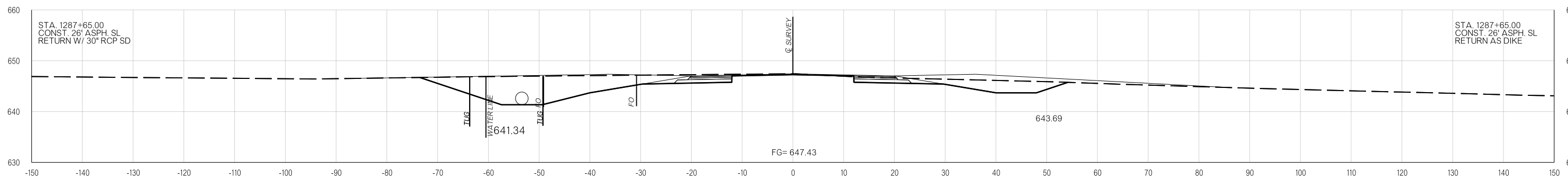
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1287+95.61



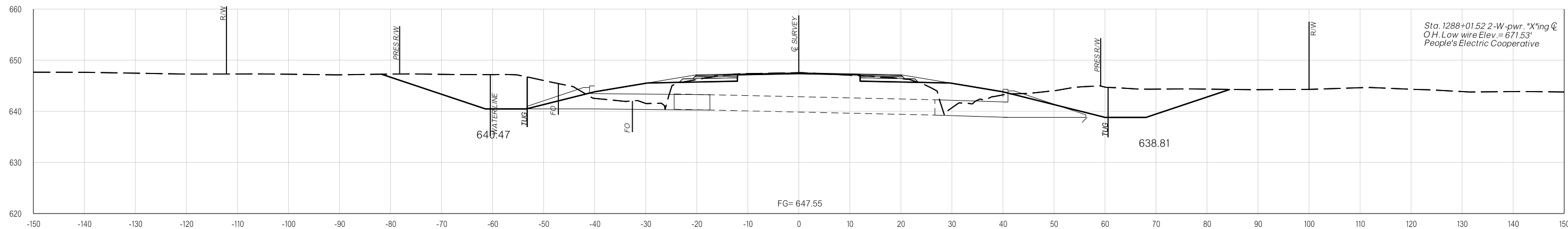
1287+65.02



1287+65.00

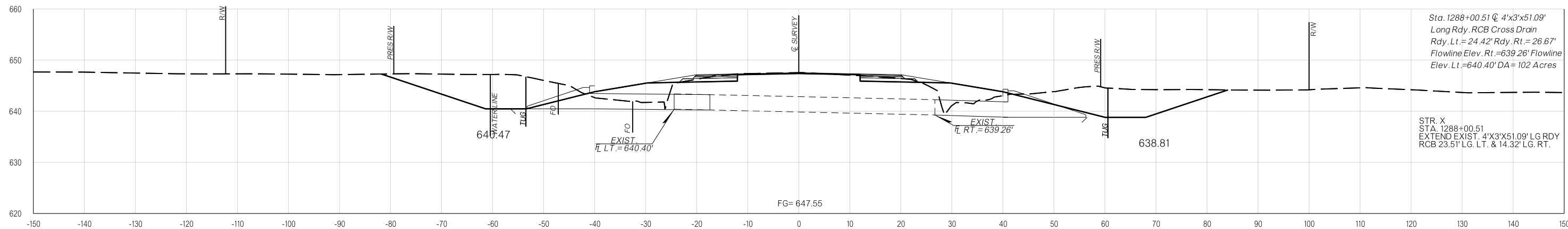
PROPOSED R/W

02-03-20



Sta. 1288+01.52 2-W-pwr. *X*ing @
 O.H. Low wire Elev. = 671.53'
 People's Electric Cooperative

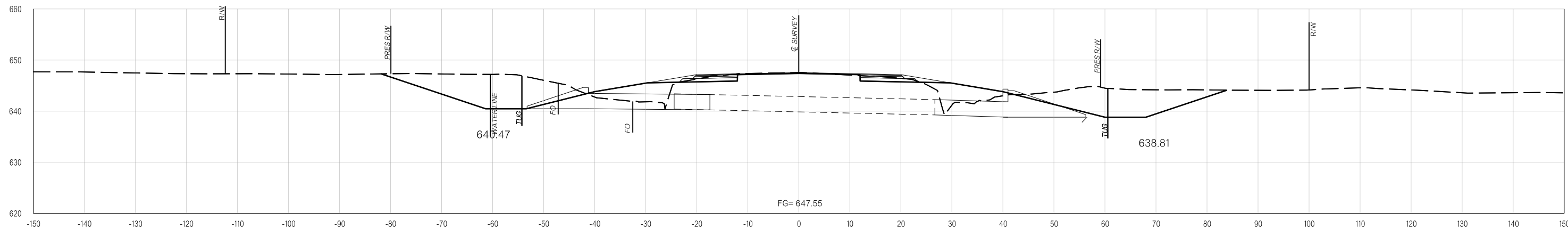
1288+01.52



Sta. 1288+00.51 @ 4'x3'x51.09'
 Long Rdy. RCB Cross Drain
 Rdy. Lt. = 24.42' Rdy. Rt. = 26.67'
 Flowline Elev. Rt. = 639.26' Flowline
 Elev. Lt. = 640.40' DA = 102 Acres

STR. X
 STA. 1288+00.51
 EXTEND EXIST. 4'X3'X51.09' LG RDY
 RCB 23.51' LG. LT. & 14.32' LG. RT.

1288+00.50

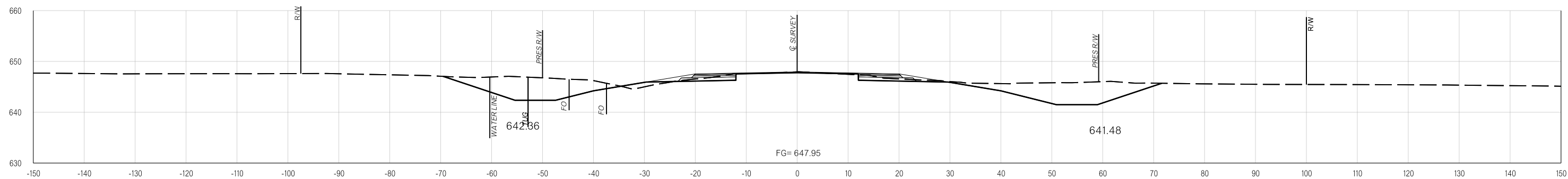


1288+00.00

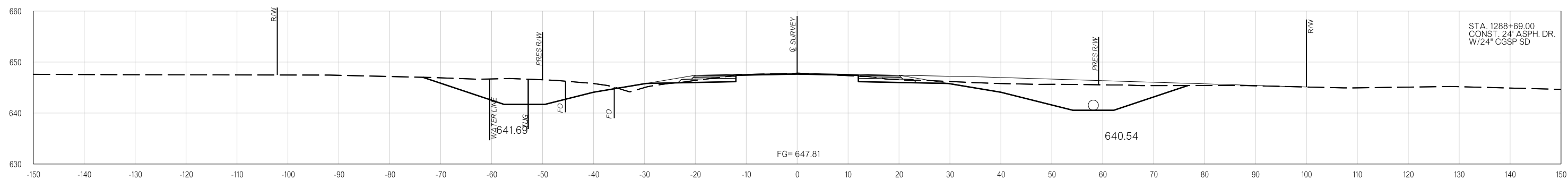
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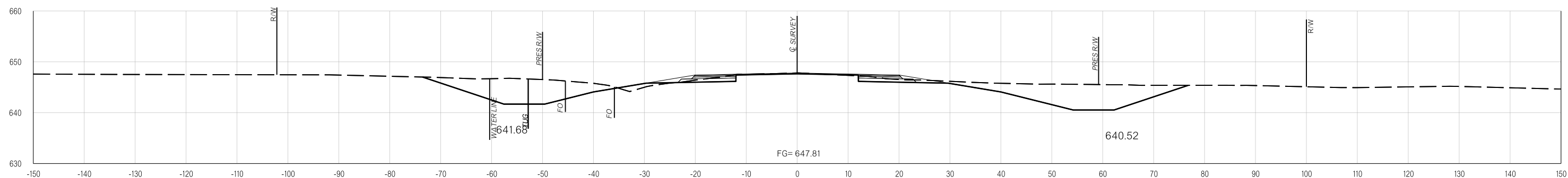
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1289+00.00



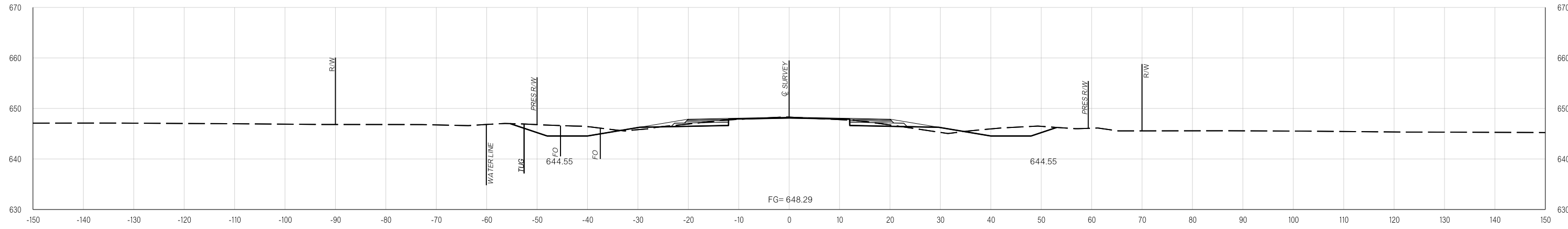
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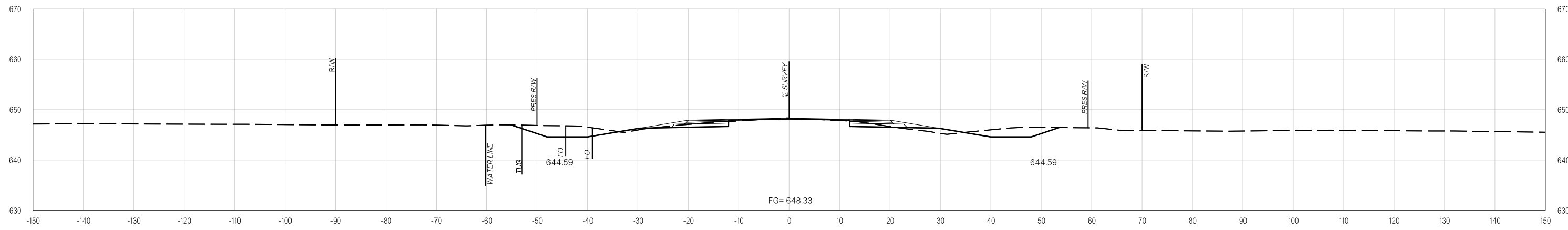
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PROPOSED R/W

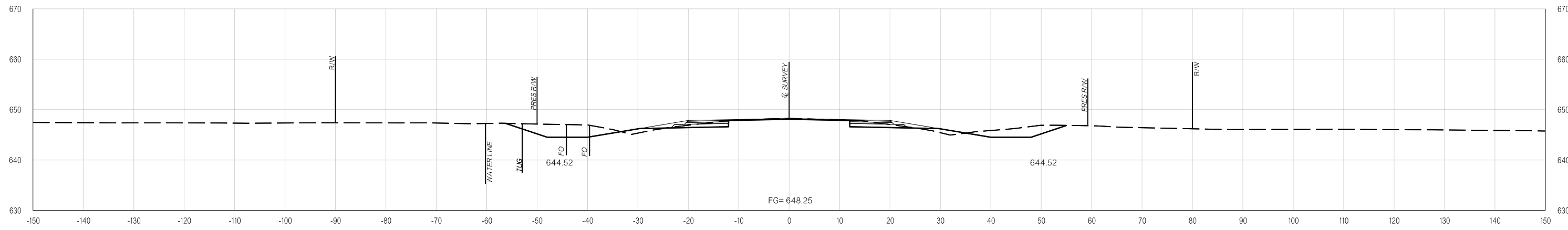
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1292+00.00



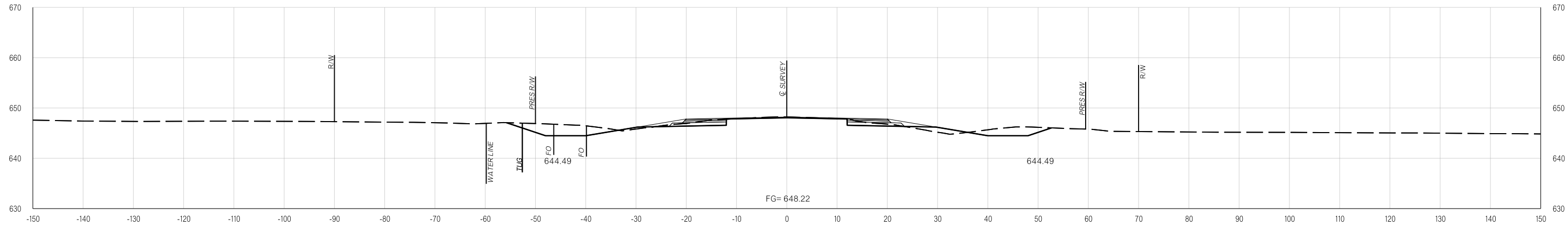
1291+00.00



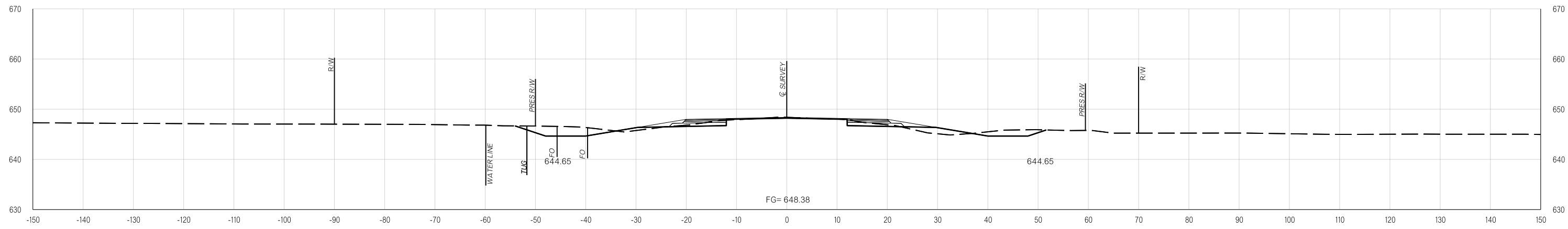
1290+00.00

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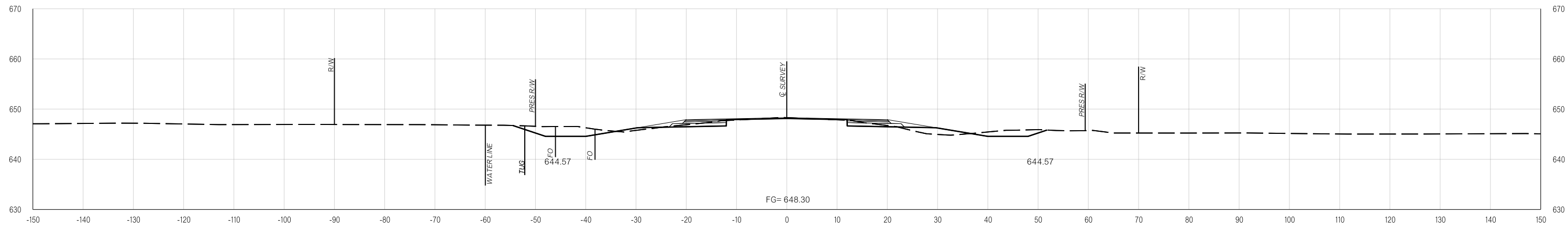
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1295+00.00

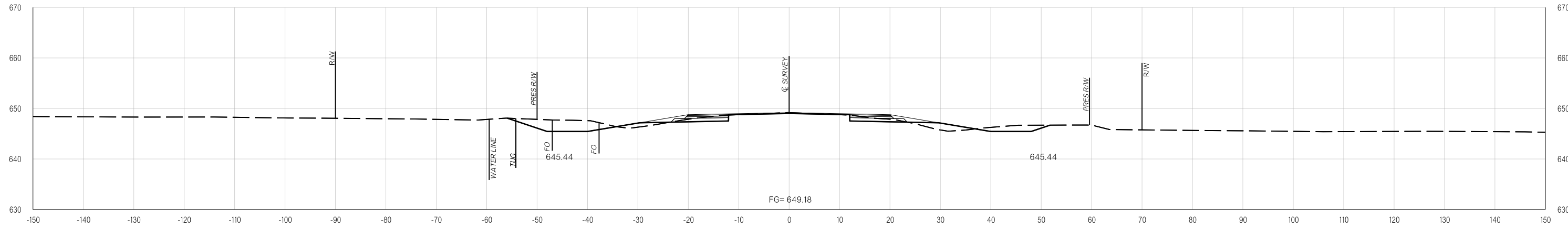


1294+00.00

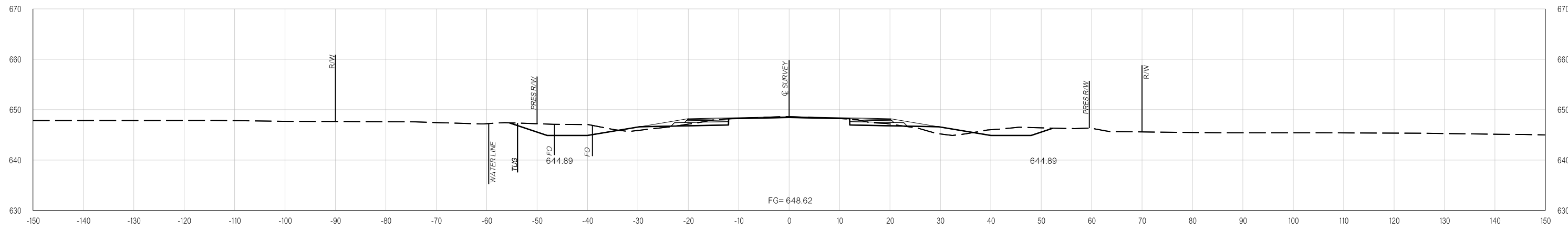


1293+00.00

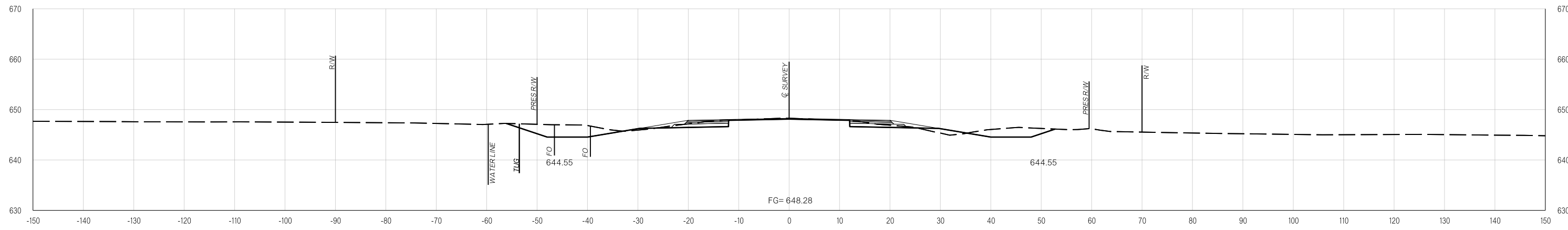
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1298+00.00



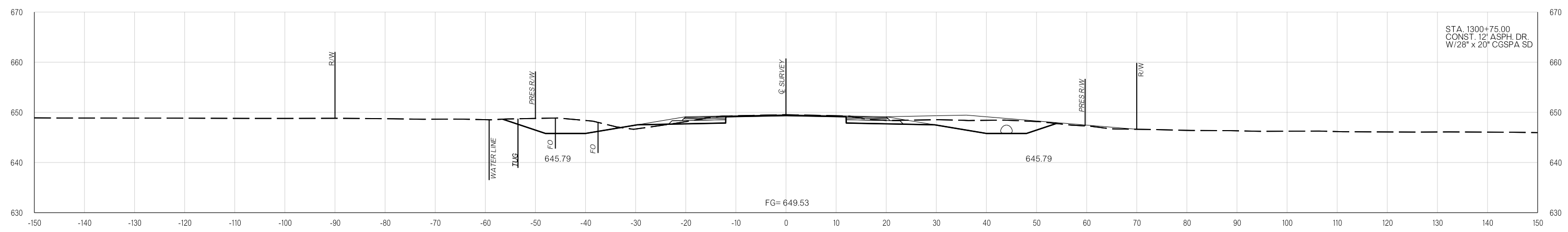
1297+00.00



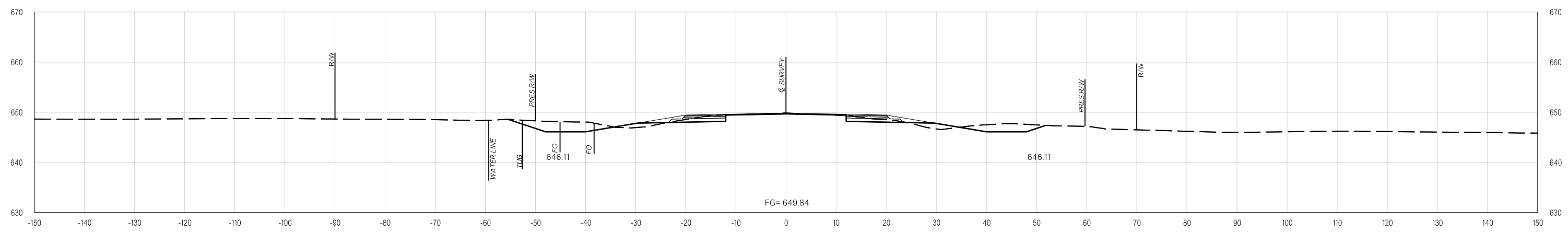
1296+00.00

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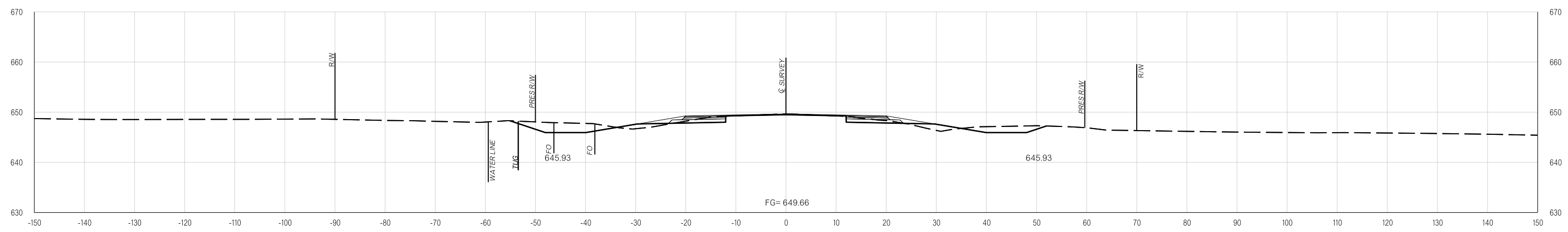
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1300+75.00

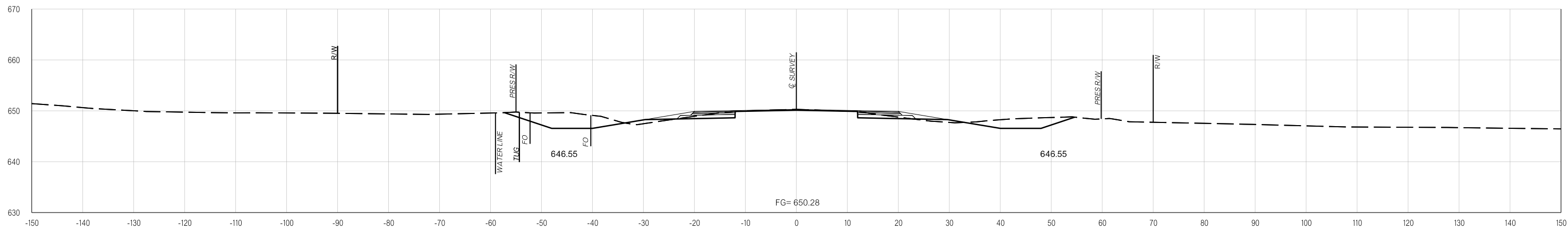


1300+00.00

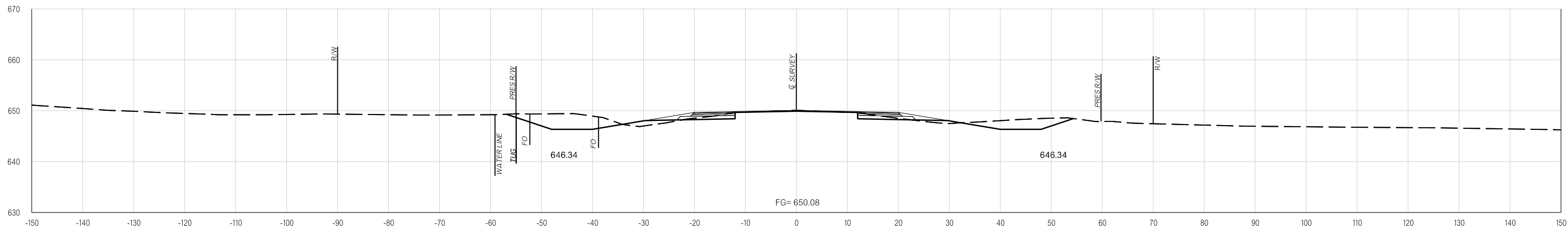


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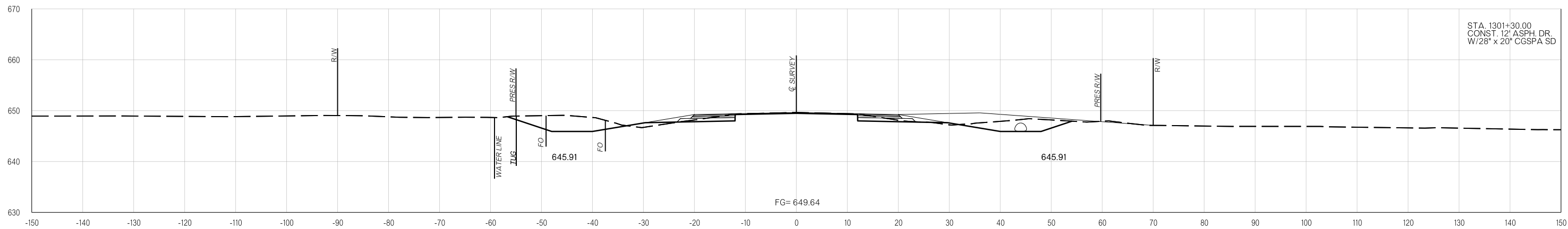
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1303+00.00

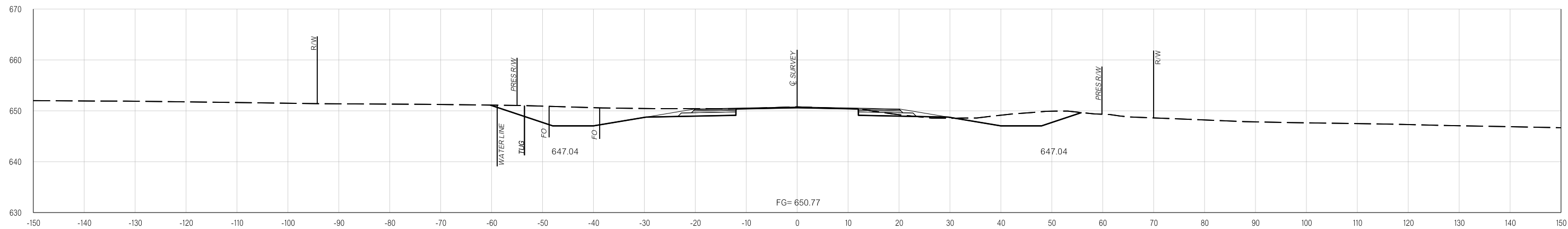


1302+00.00

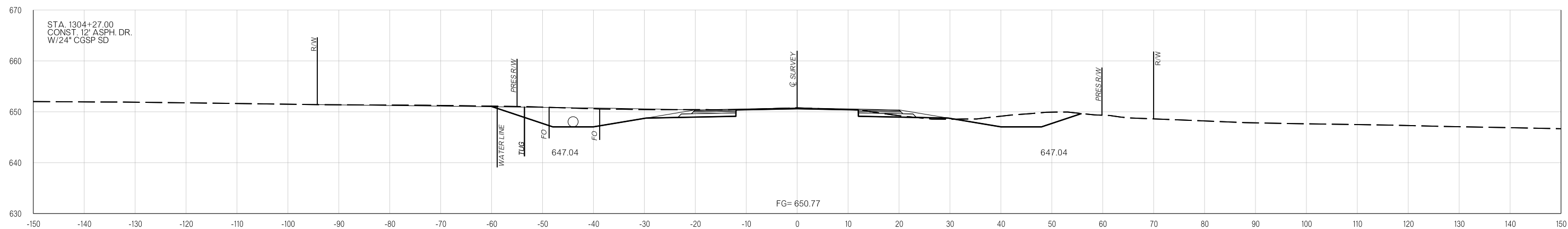


1301+00.00

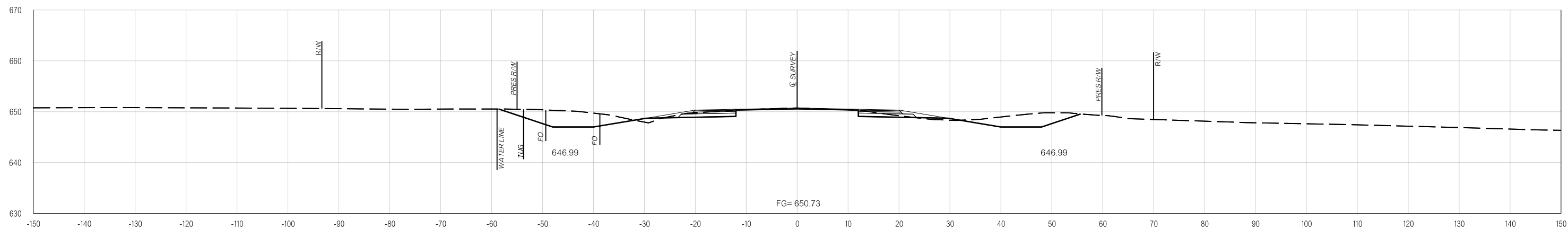
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1304+27.20

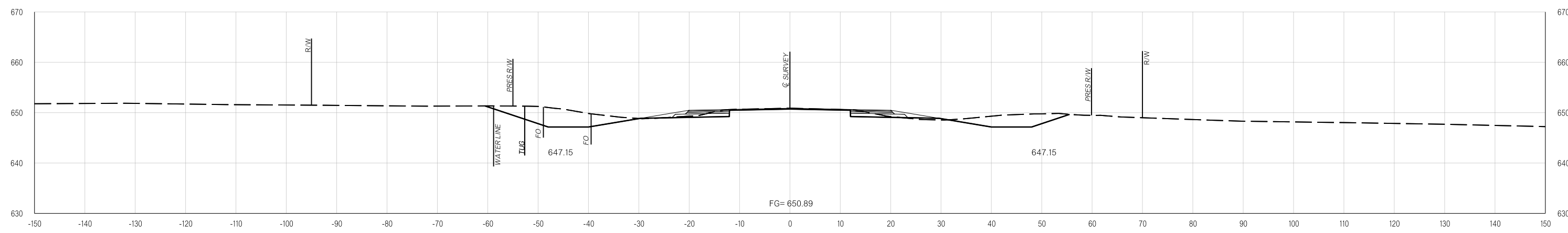
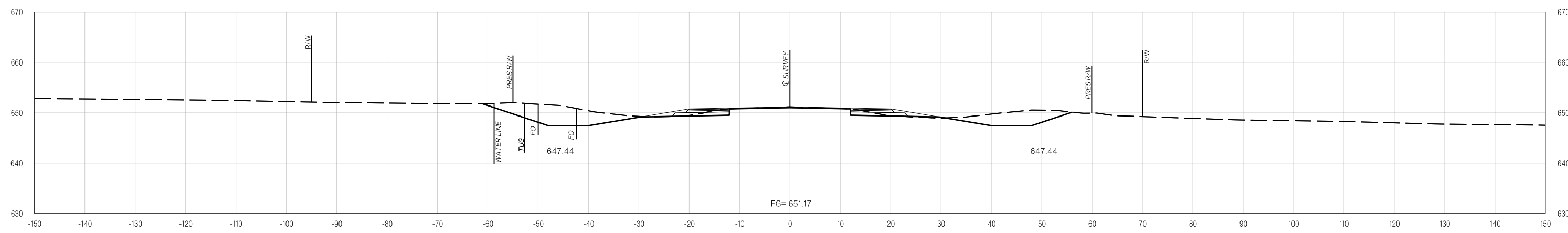
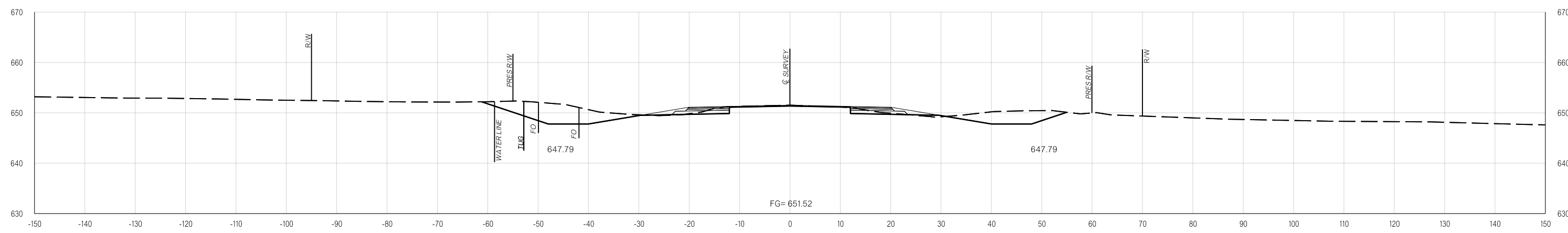


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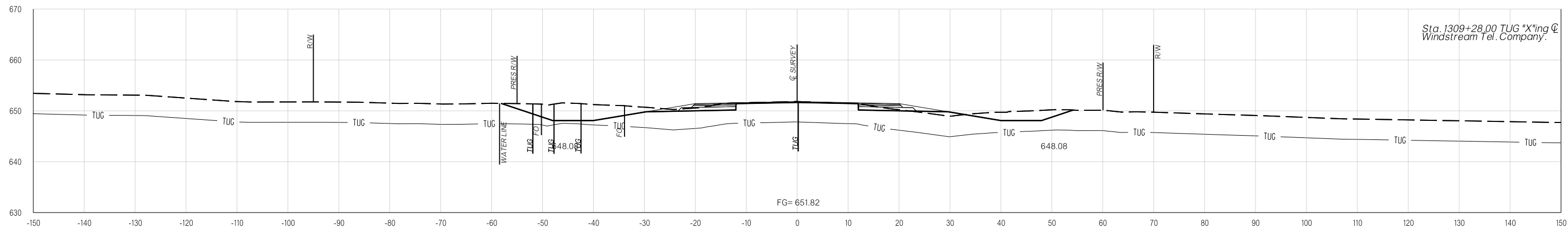


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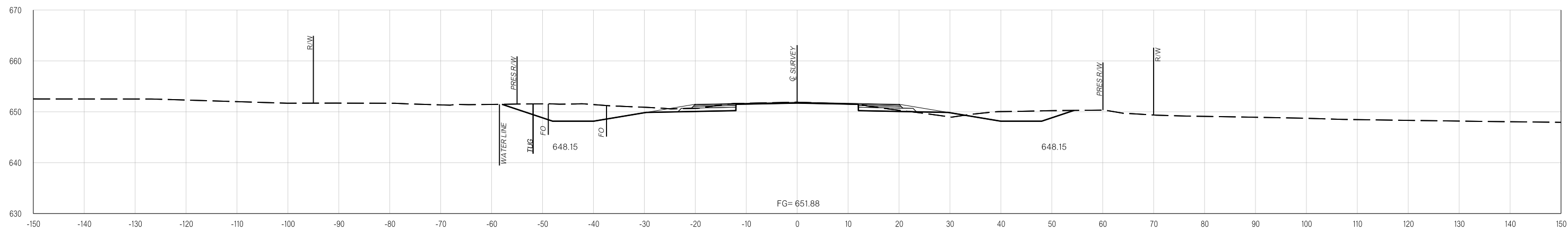
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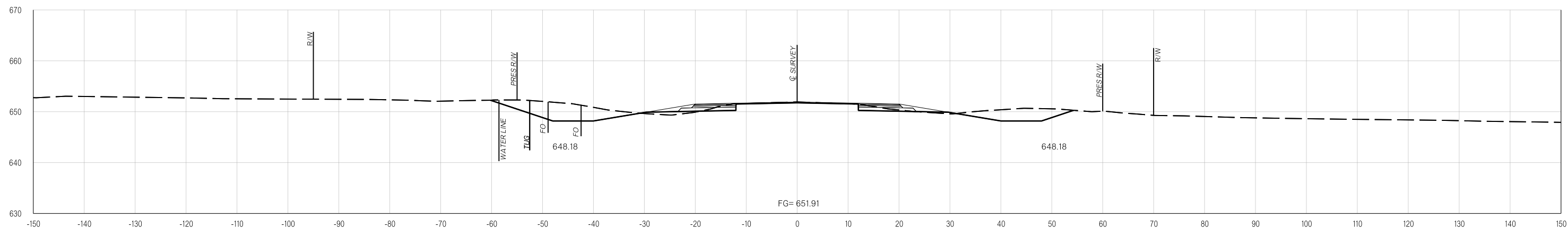
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1309+28.00



1309+00.00

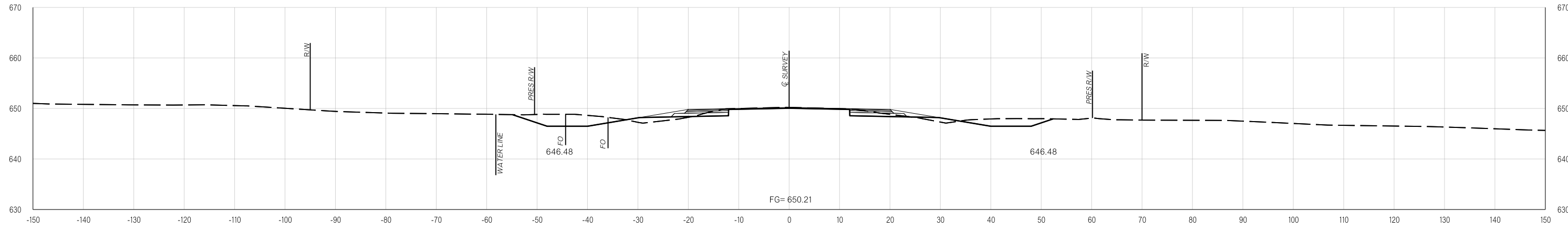


1308+00.00

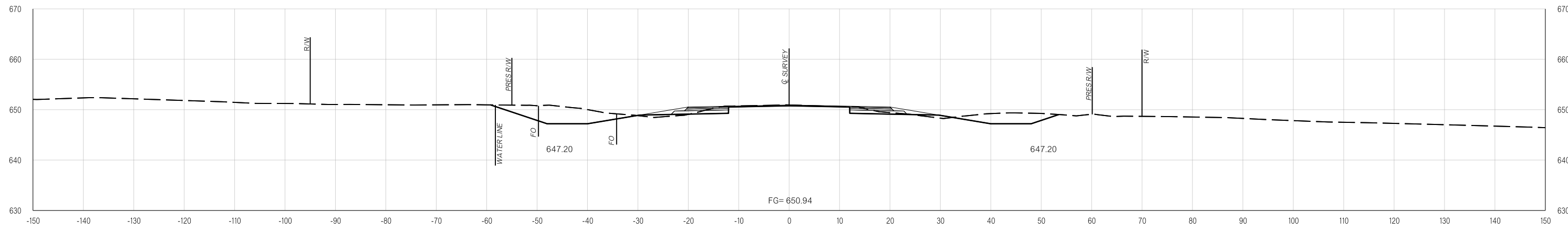
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PROPOSED R/W

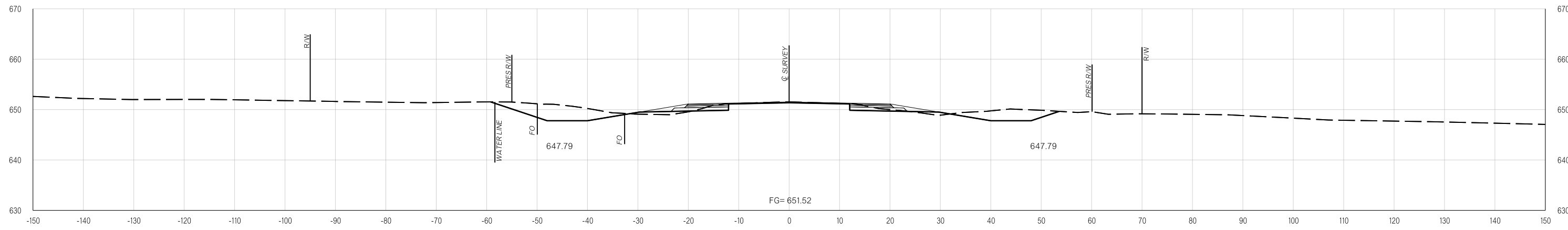
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1312+00.00

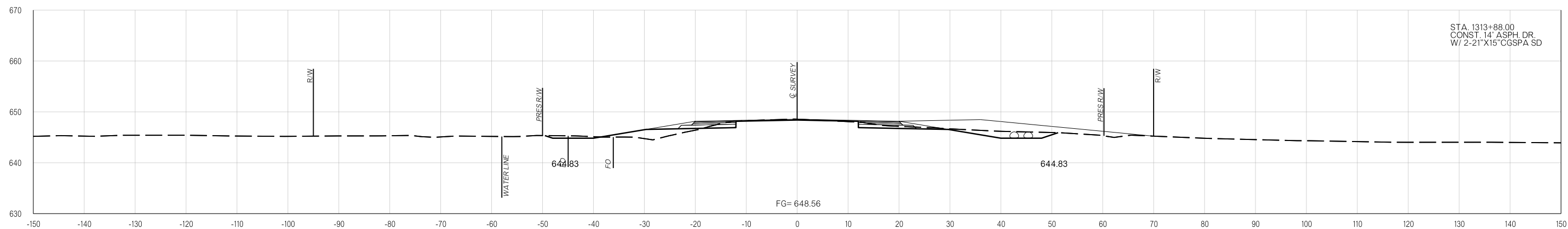


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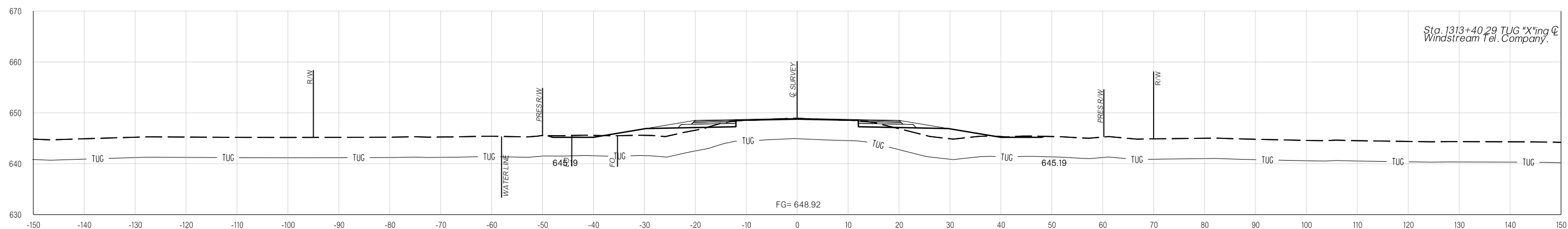


1310+00.00

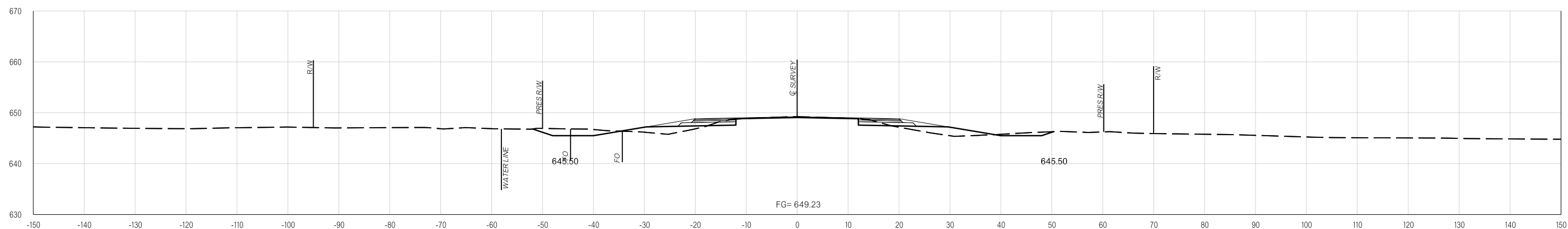
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1313+88.00



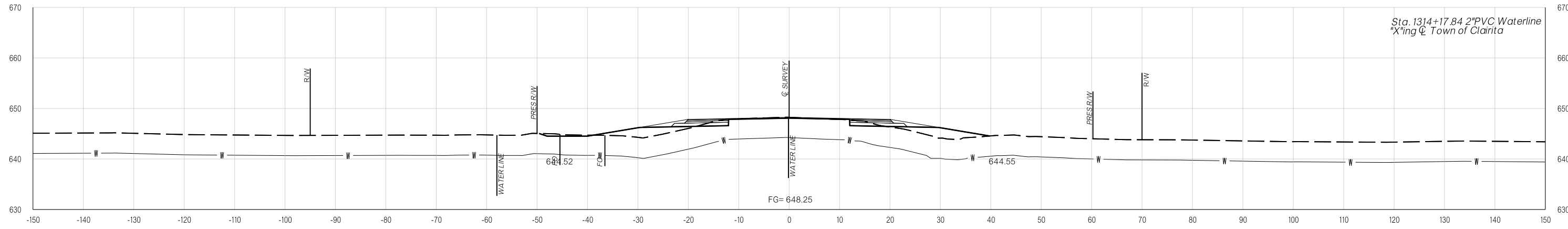
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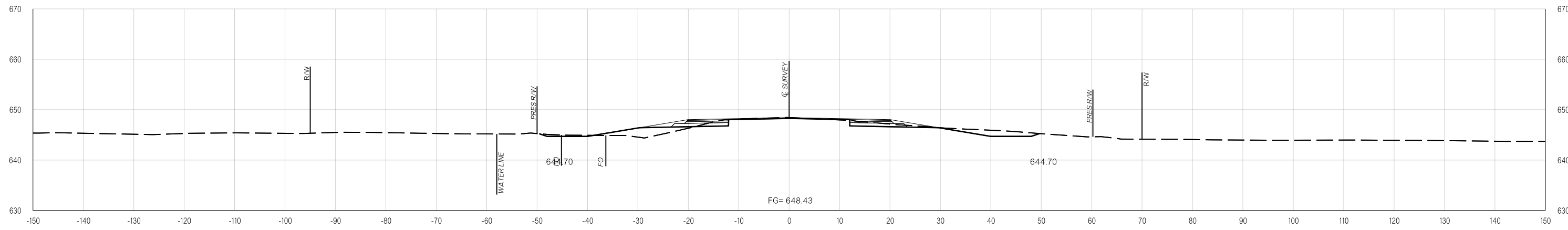
1313+00.00

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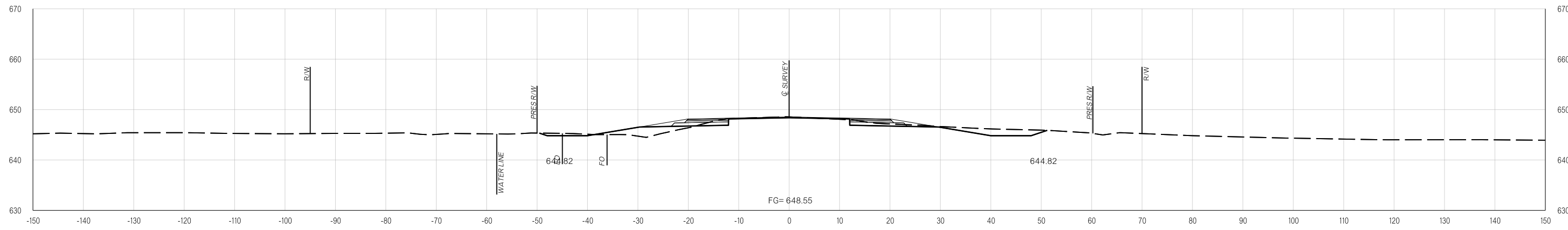
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1314+17.85



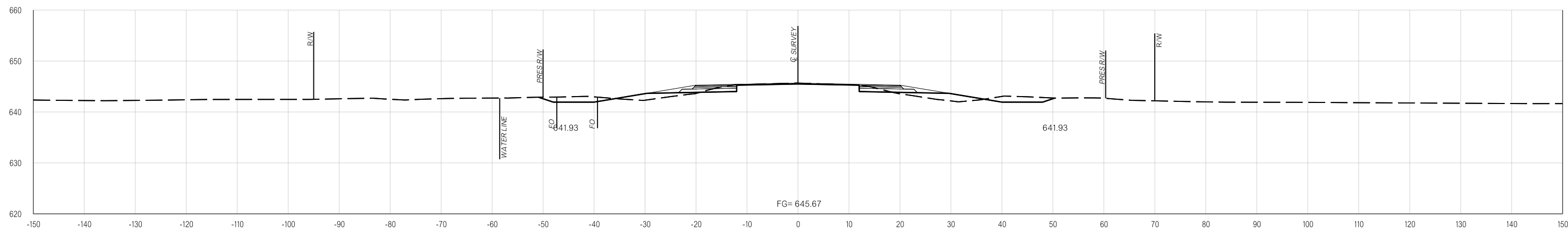
1314+00.00



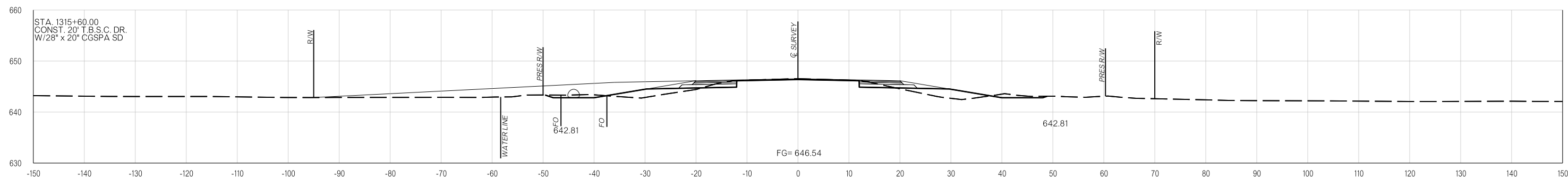
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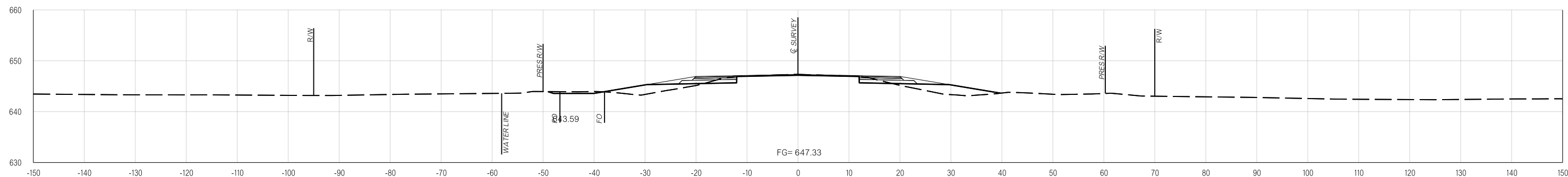
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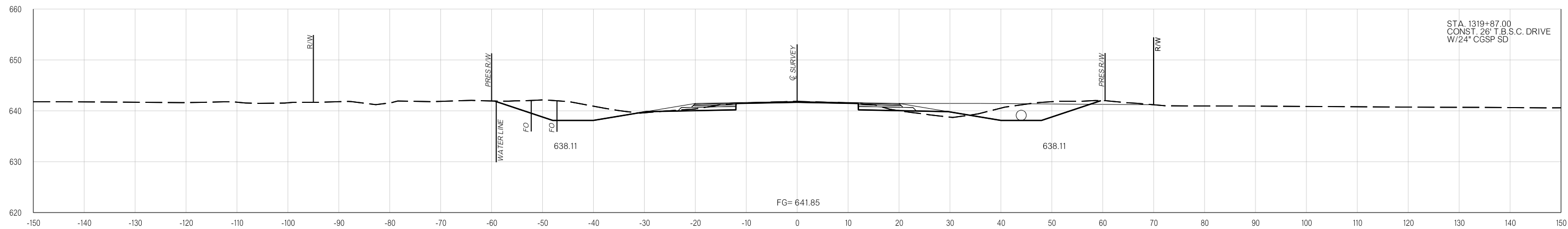
1317+00.00



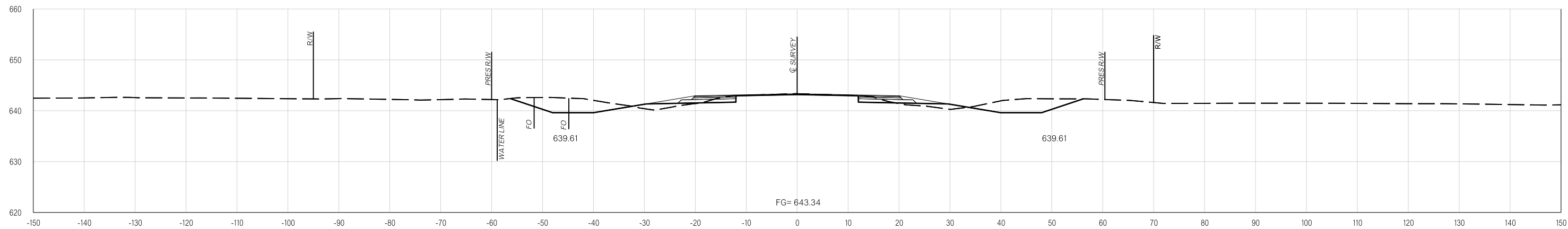
1316+00.00



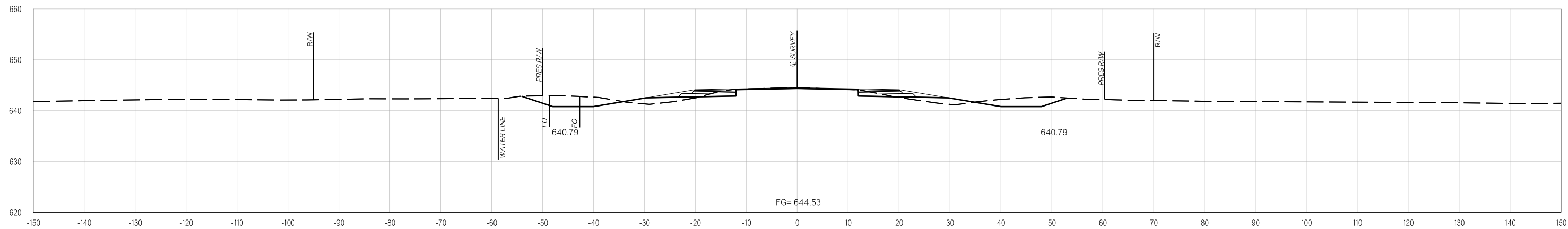
1315+00.00



1320+00.00



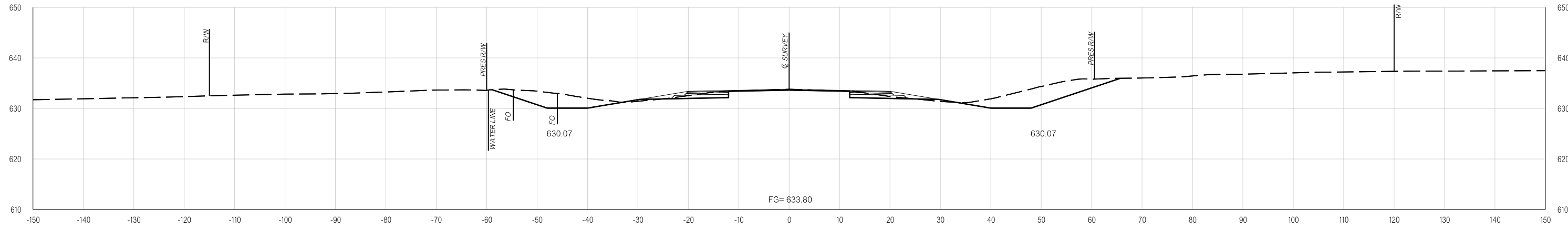
1319+00.00



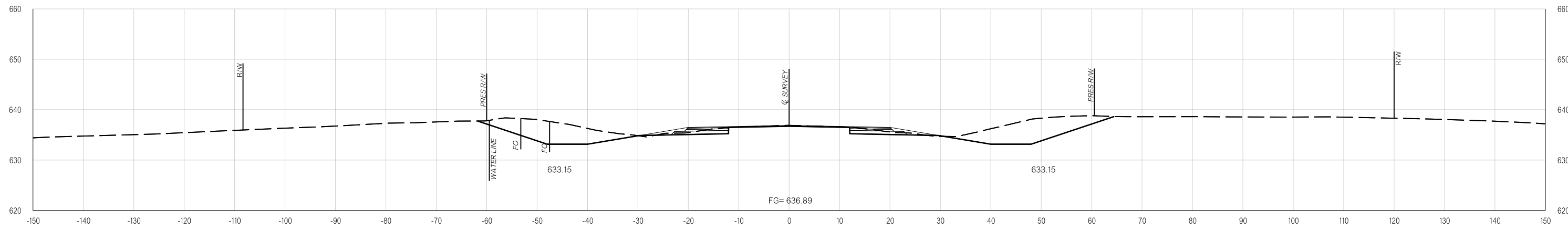
1318+00.00

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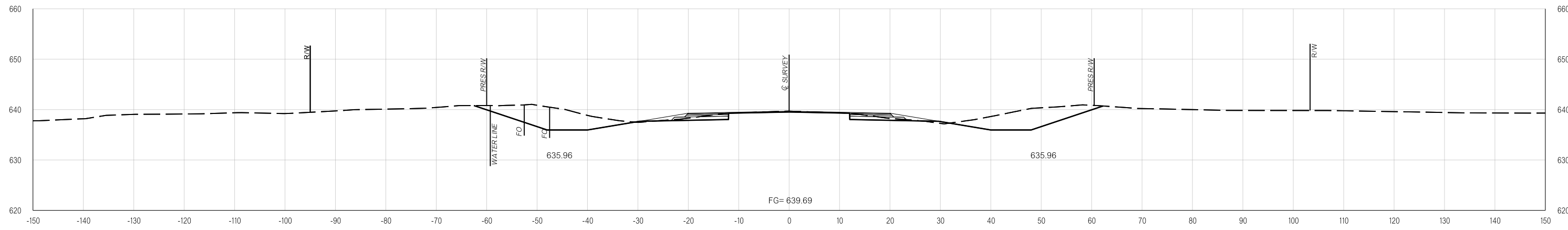
01-15-21



1323+00.00



1322+00.00



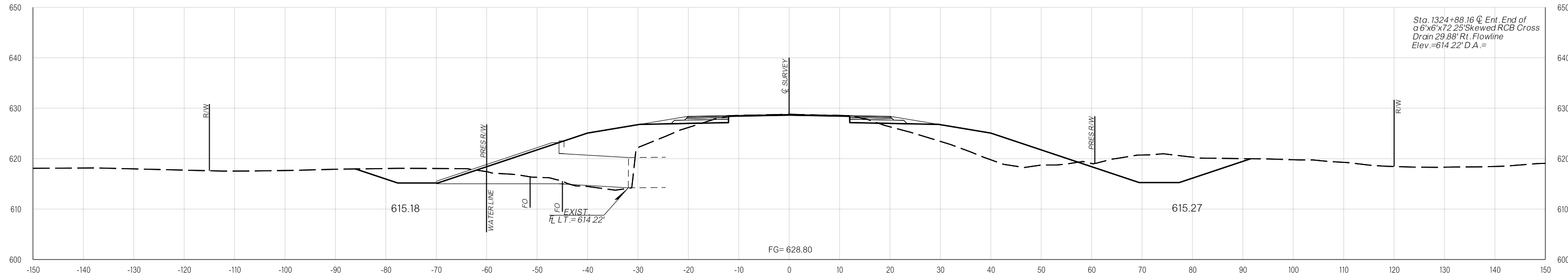
1321+00.00

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PROPOSED R/W

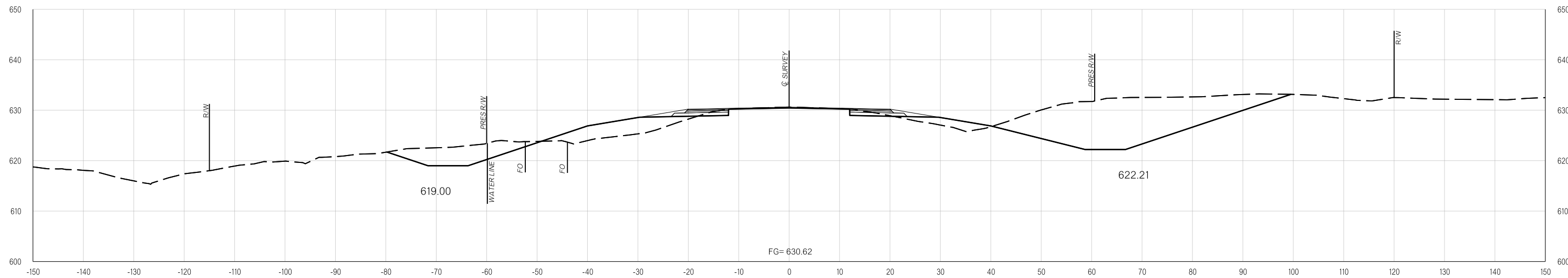
02-03-20

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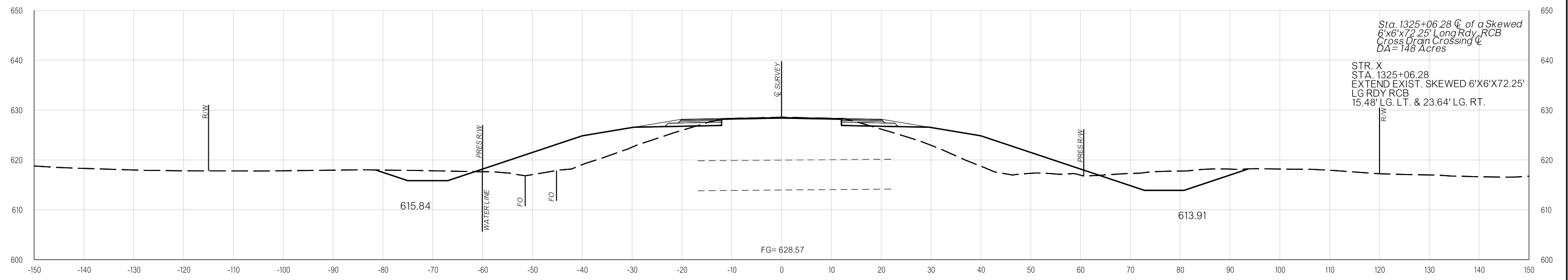
Sta. 1324+88.16 @ Ent. End of a 6'x6'x72.25'Skewed RCB Cross Drain 29.88' Rl. Flowline Elev.=614.22' D.A.=

1324+88.44



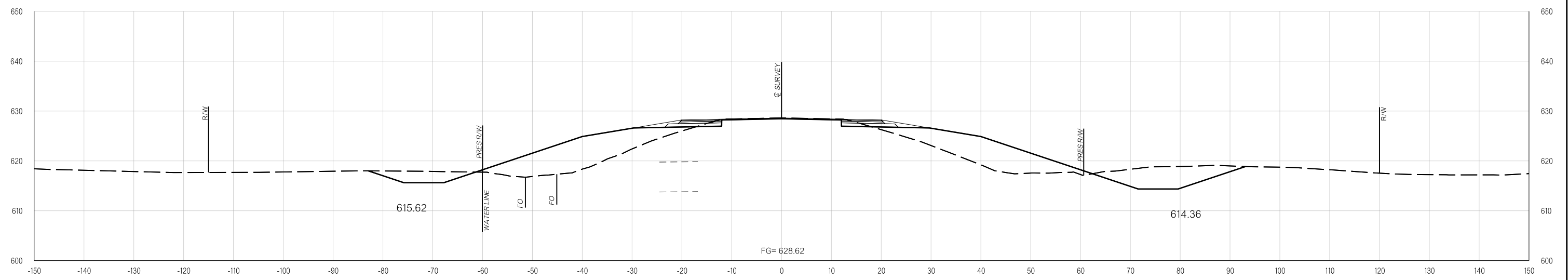
1324+00.00

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 02-03-20



Sta. 1325+06.28 C of a Skewed
 6'x6'x72.25' Long RdY RCB
 Cross Drain Crossing C
 DA= 148 Acres
 STR. X
 STA. 1325+06.28
 EXTEND EXIST. SKEWED 6'X6'X72.25'
 LG RDY RCB
 15.48' LG. LT. & 23.64' LG. RT.

1325+05.74



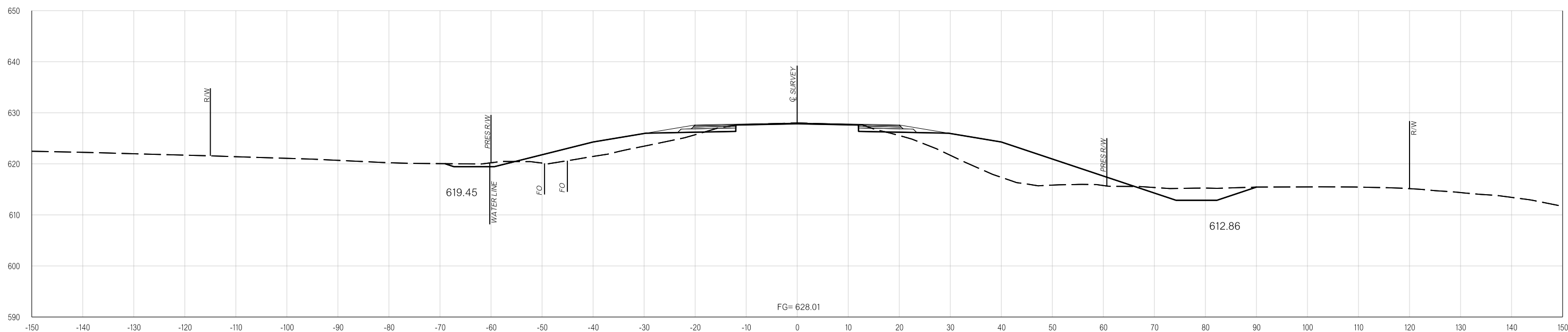
1325+00.00

PROPOSED R/W

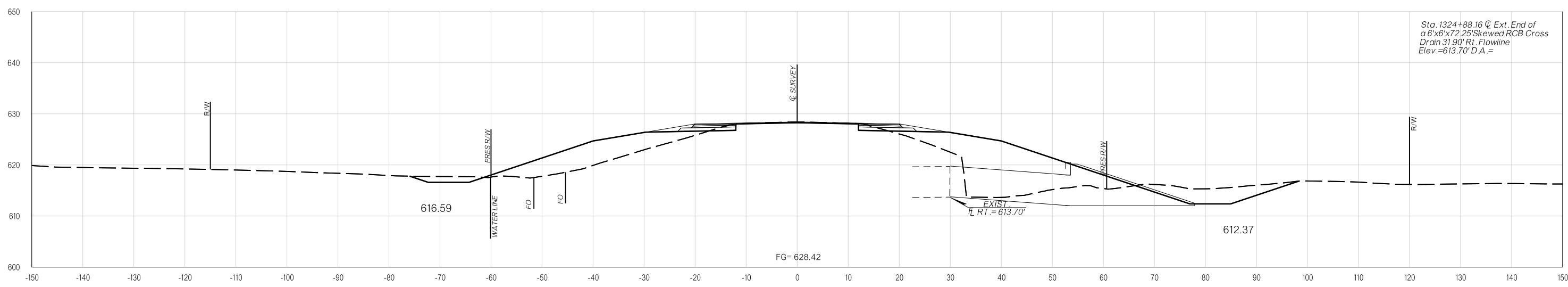
02-03-20

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02-03-20



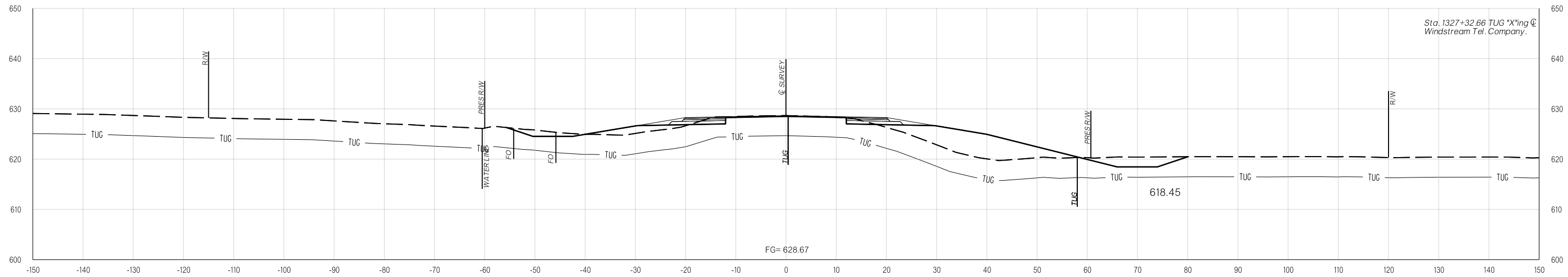
1326+00.00



1325+25.27

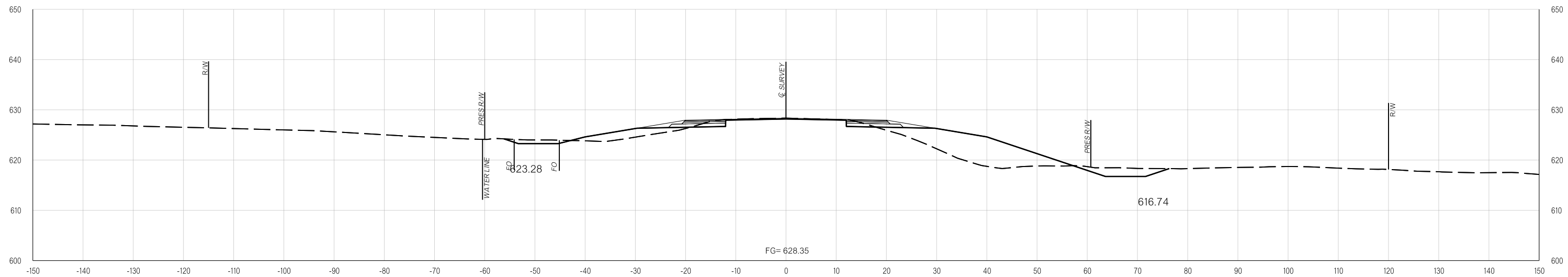
Sta. 1324+88.16 @ Ext. End of a 6'x6'x72.25' Skewed RCB Cross Drain 31.90' Rt. Flowline Elev. = 613.70' D.A. =

02-03-20 pw:\APP-PWS05-345_agency_OK_local\DOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn

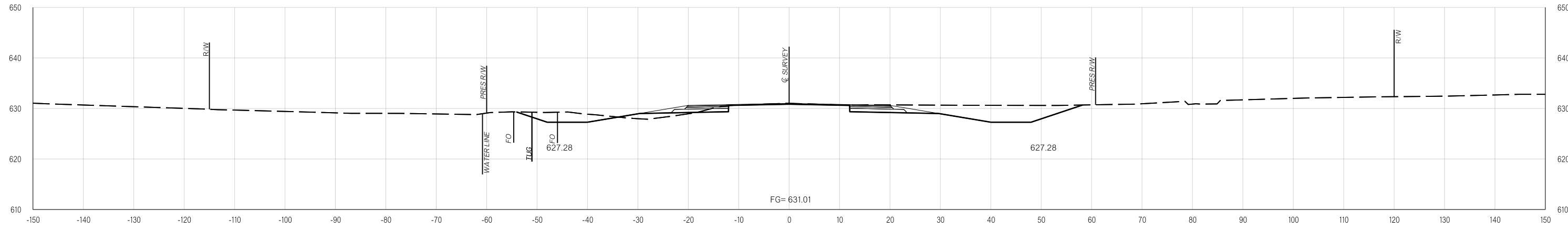


Sta. 1327+32.66 TUG "X"ing @
Windstream Tel. Company.

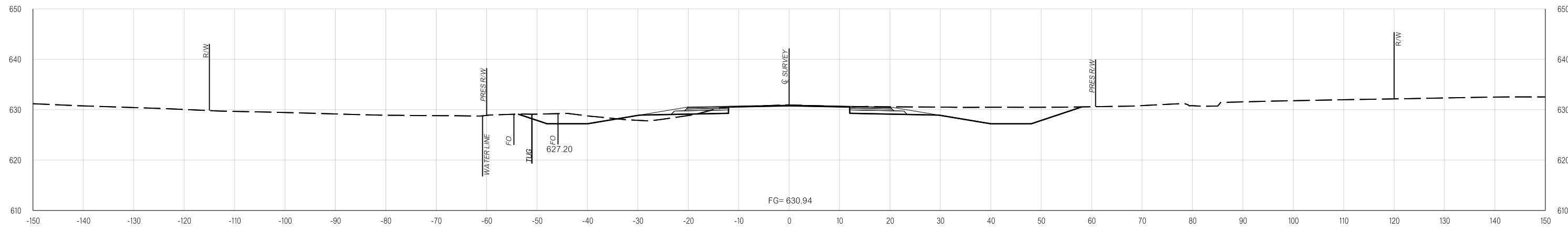
1327+32.70



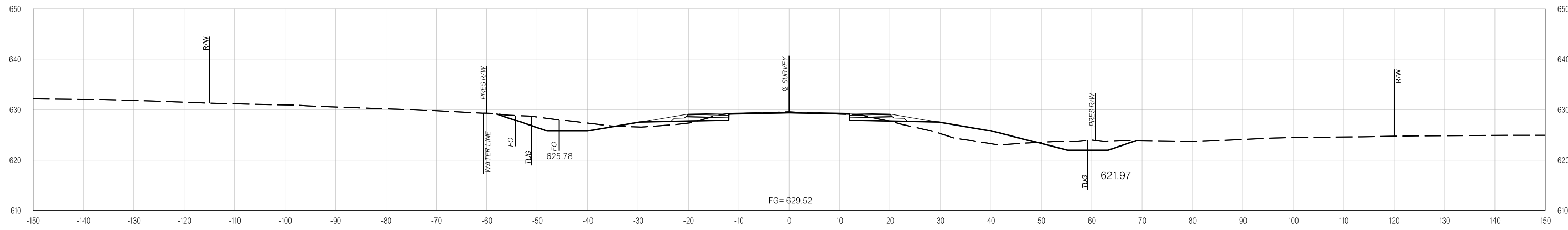
1327+00.00



1329+05.24



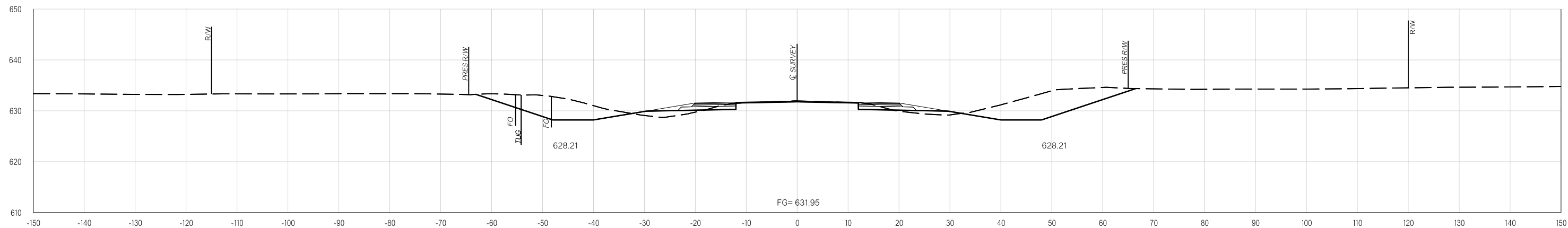
1329+00.00



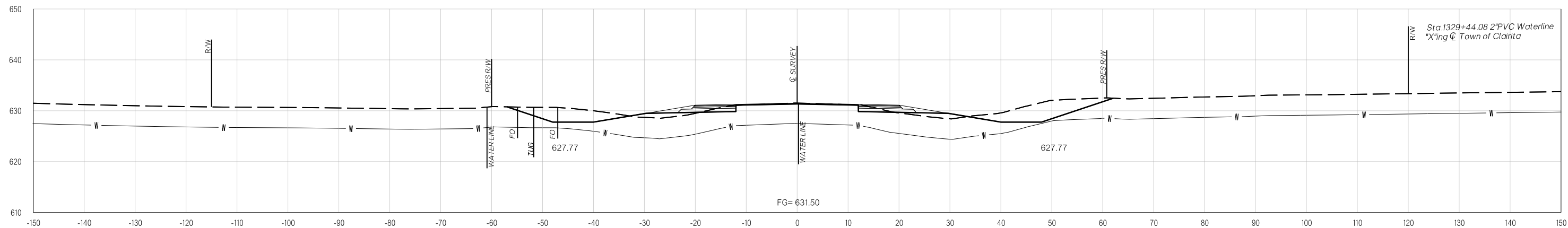
1328+00.00

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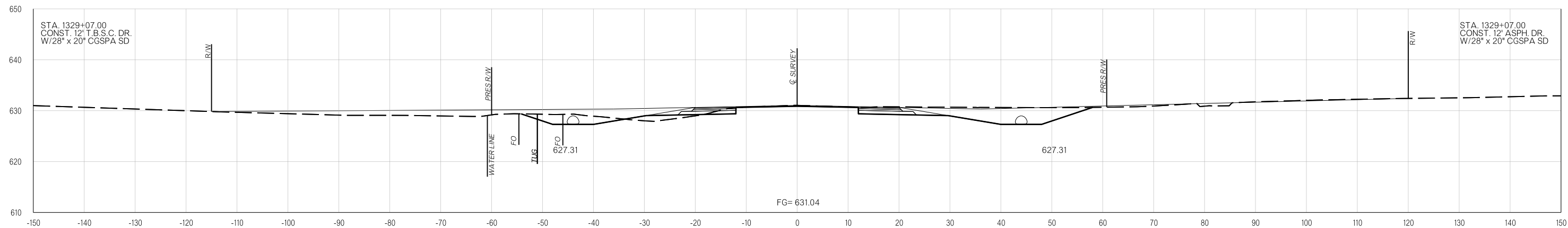
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1330+00.00



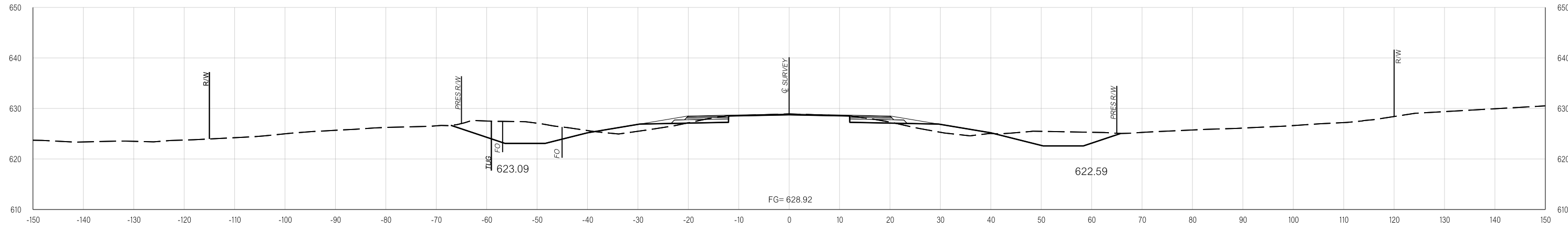
1329+44.08



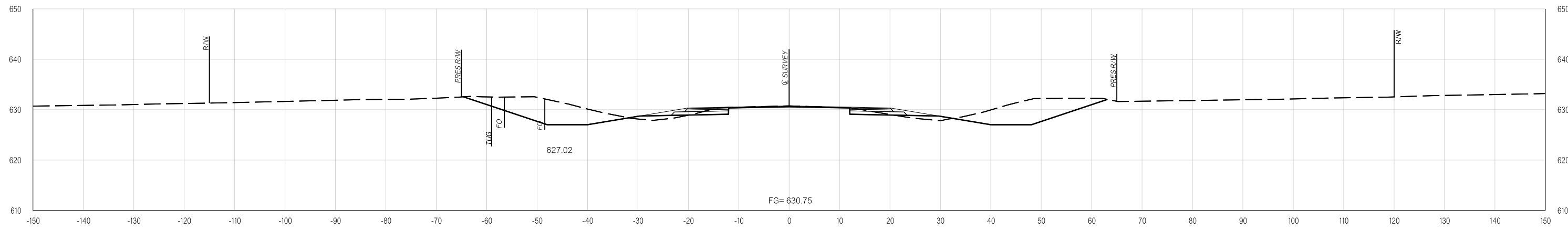
1329+07.00

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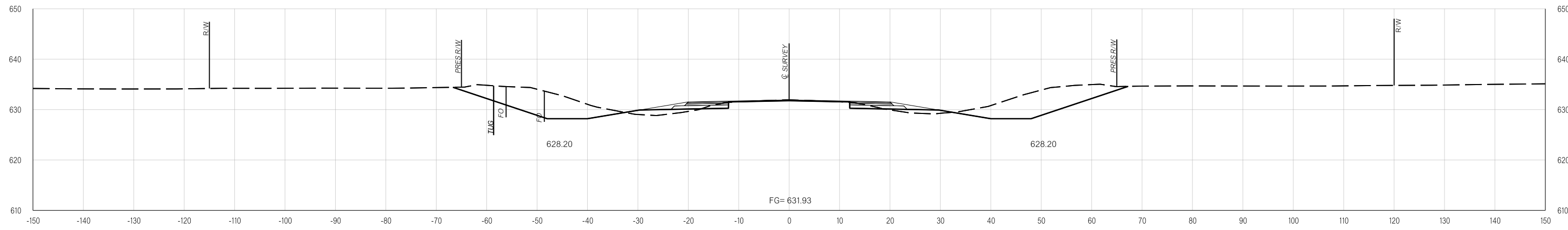
01-05-21



1333+00.00



1332+00.00



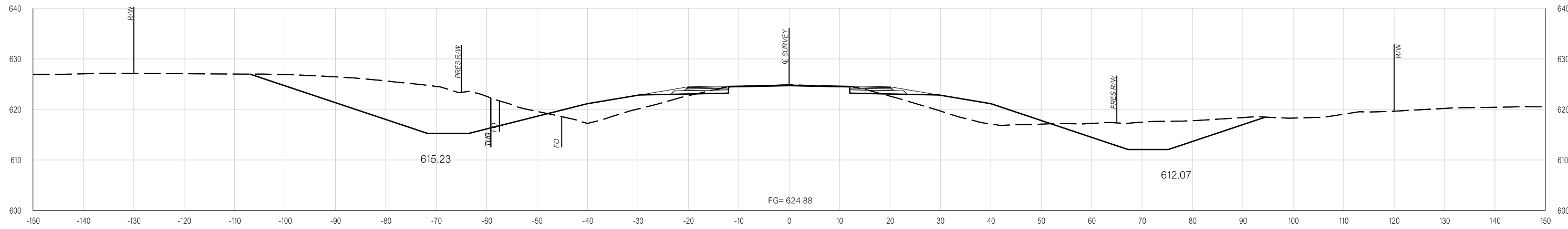
1331+00.00

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02-03-20

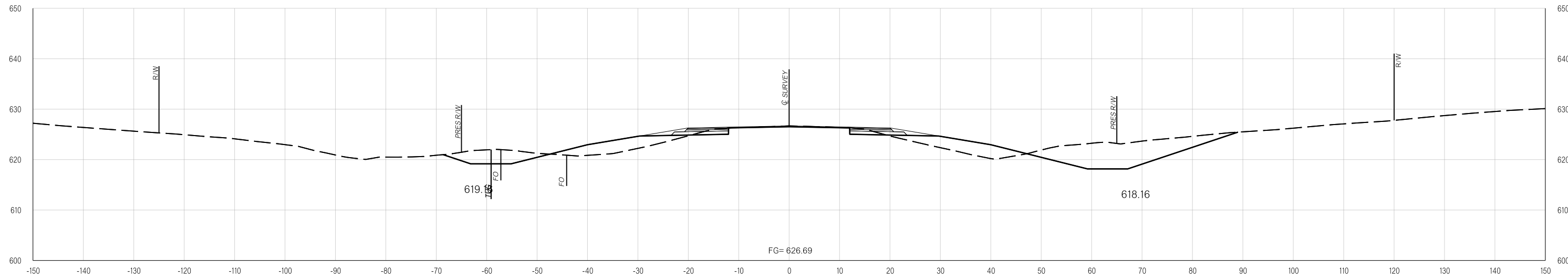
PROPOSED R/W

02-03-20

02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\1047(04)-Xsec.dgn



1335+00.00



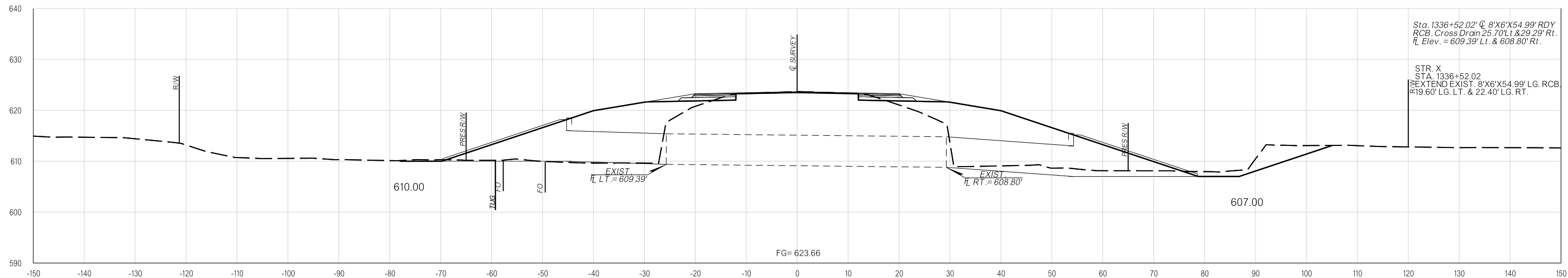
1334+00.00

PROPOSED R/W

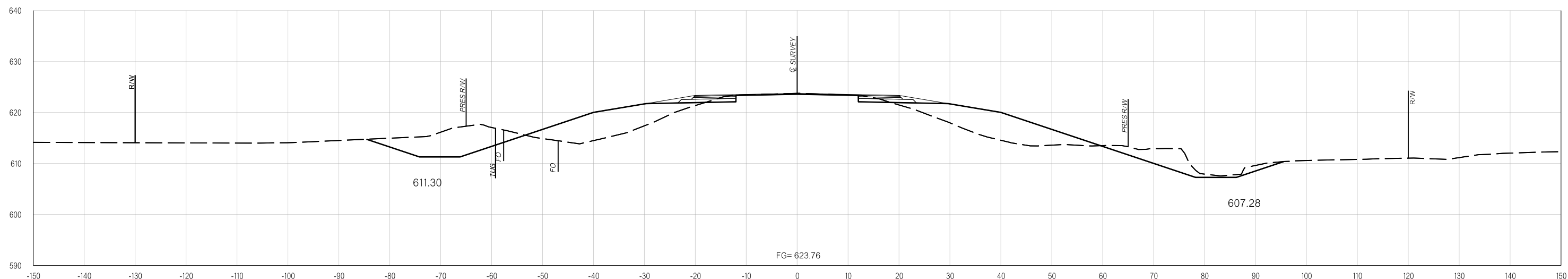
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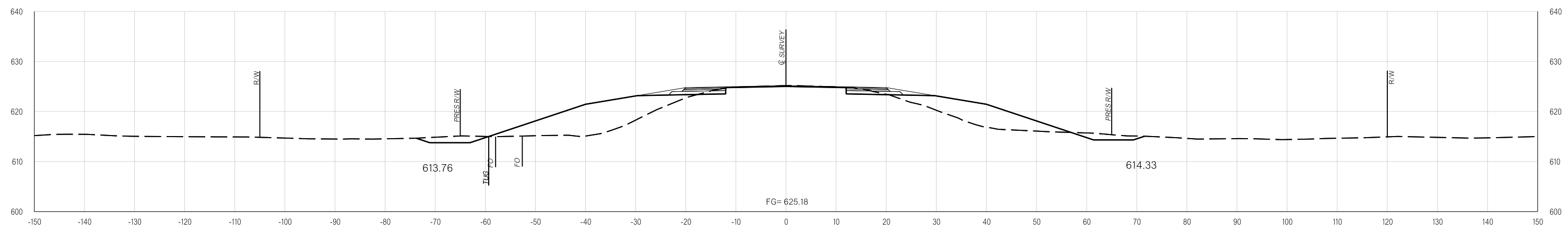


1336+51.99

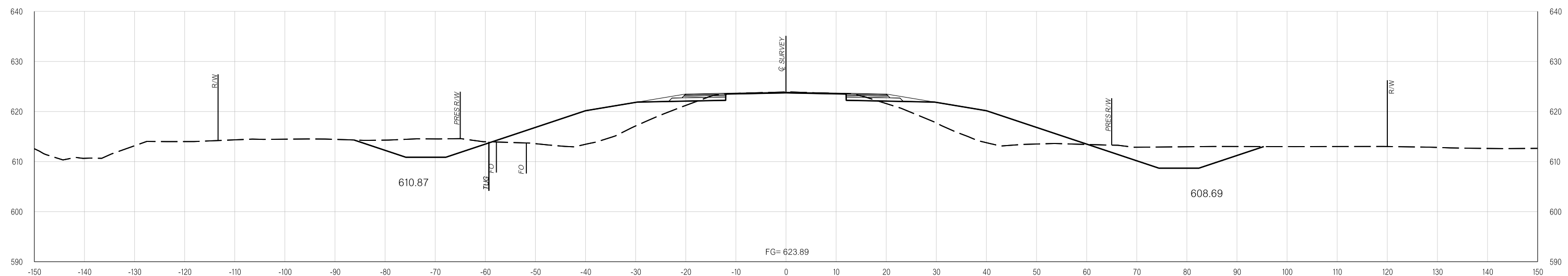


1336+00.00

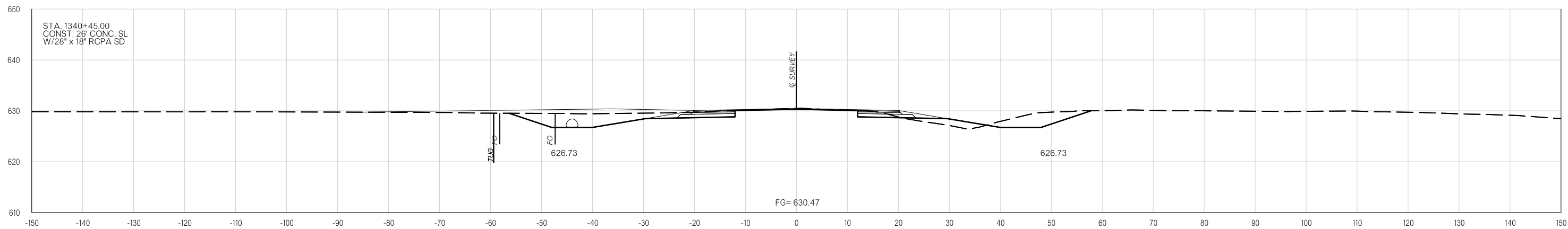
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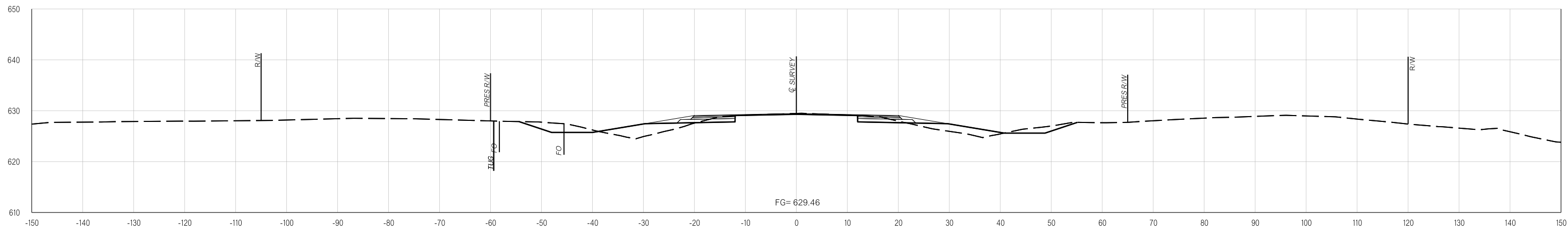
1338+00.00



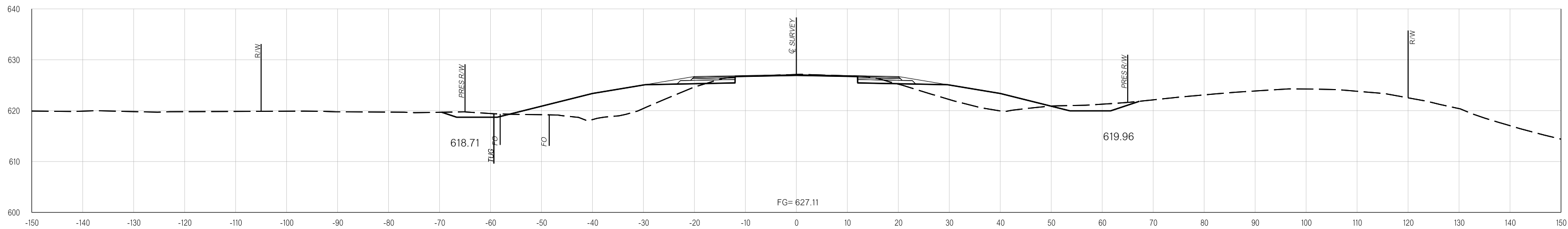
1337+00.00



1340+45.00



1340+00.00

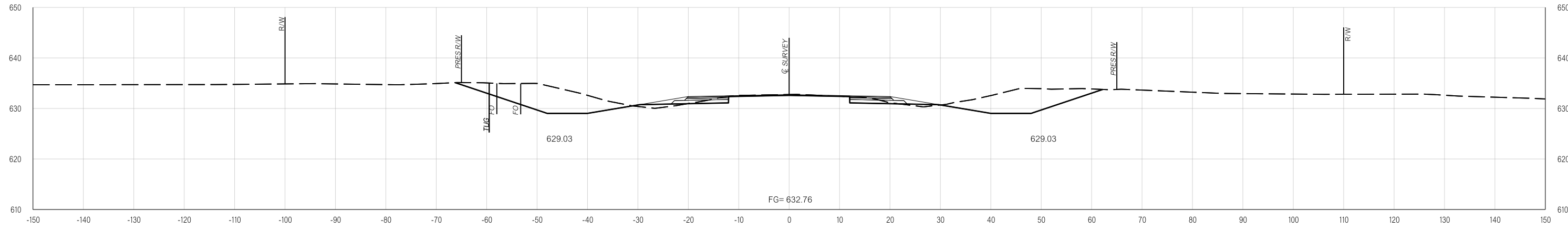


1339+00.00

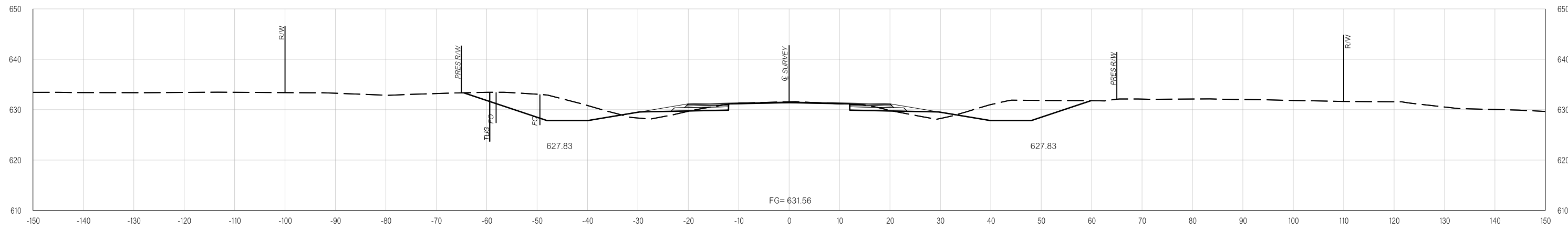
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02-03-20

PROPOSED
R/W

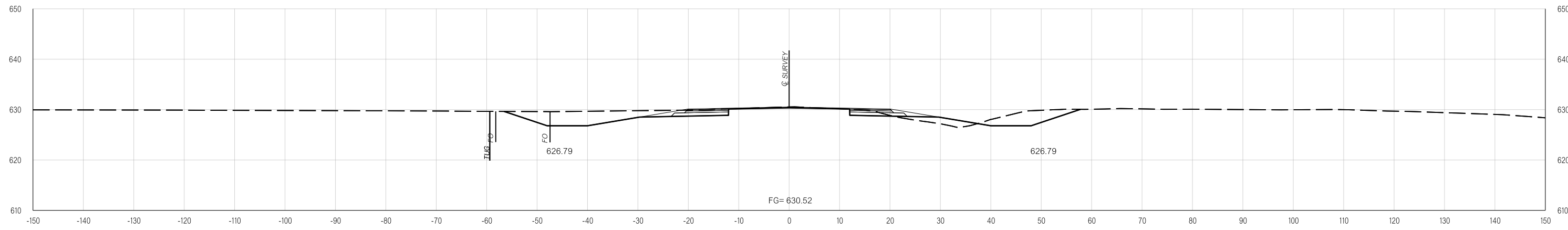
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1342+00.00



1341+00.00



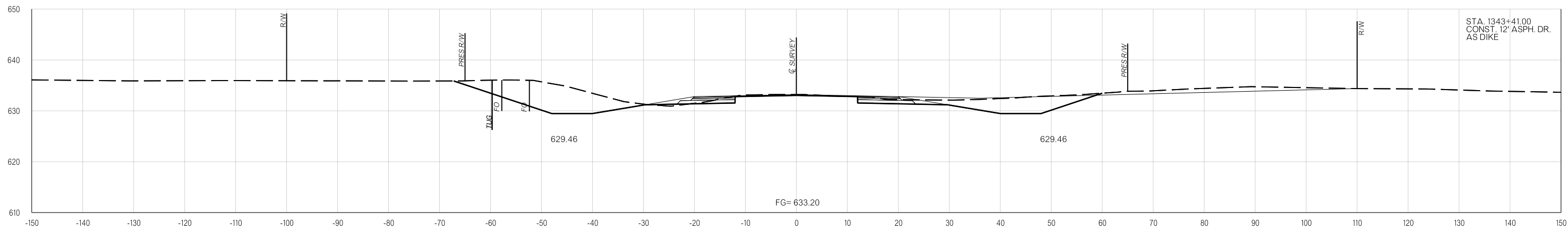
1340+47.75

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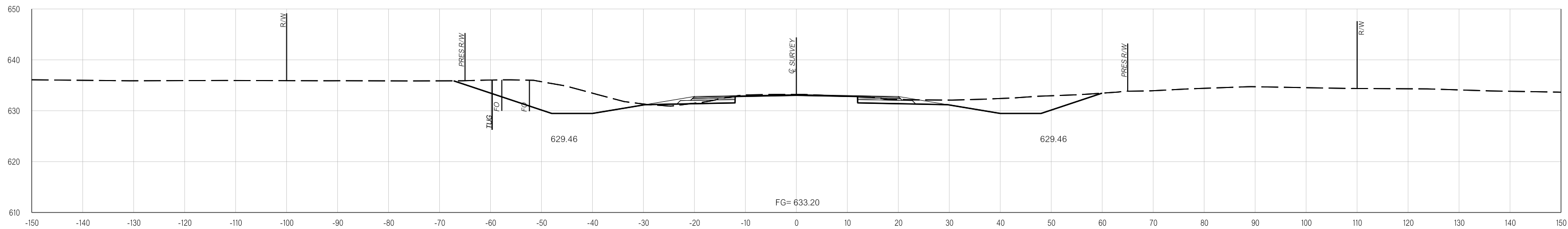
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PROPOSED R/W

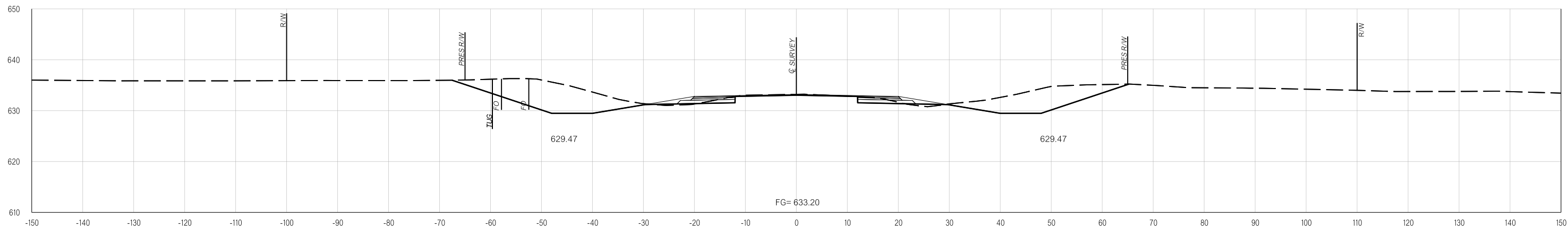
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1343+41.00



1343+40.44



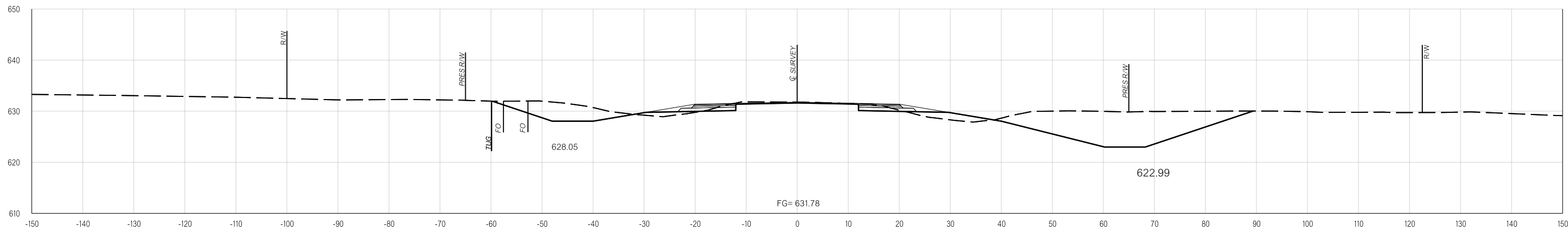
1343+00.00

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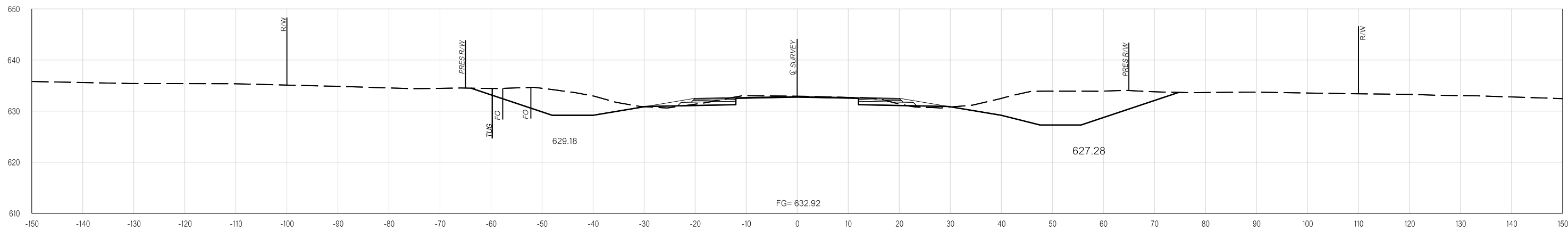
PROPOSED R/W

02-03-20

02-03-20 pw:\APP-PWIS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1345+00.00

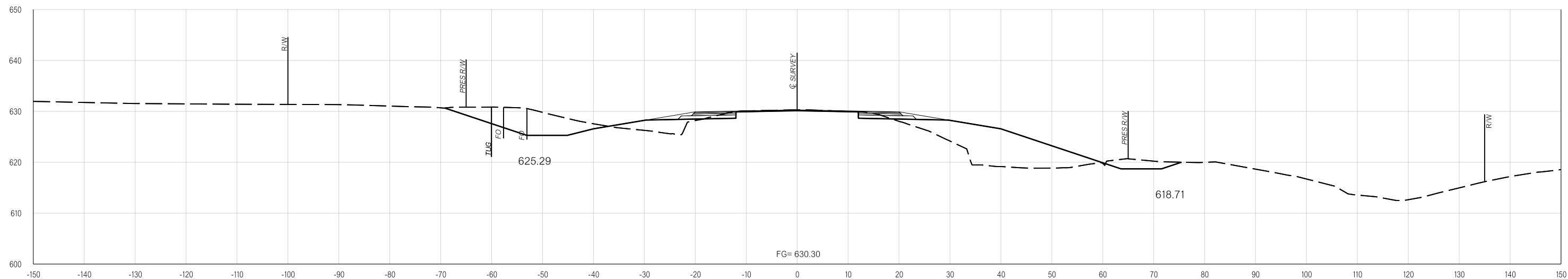


1344+00.00

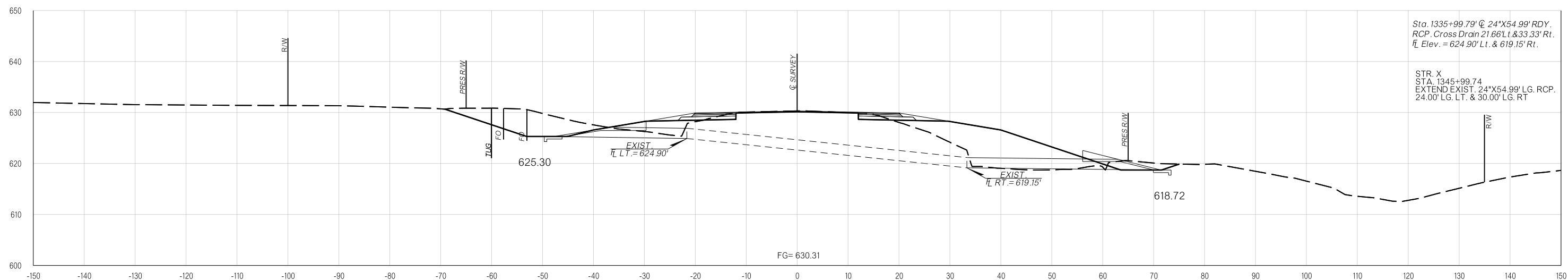
PROPOSED R/W

02-03-20

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1346+00.00



1345+99.74

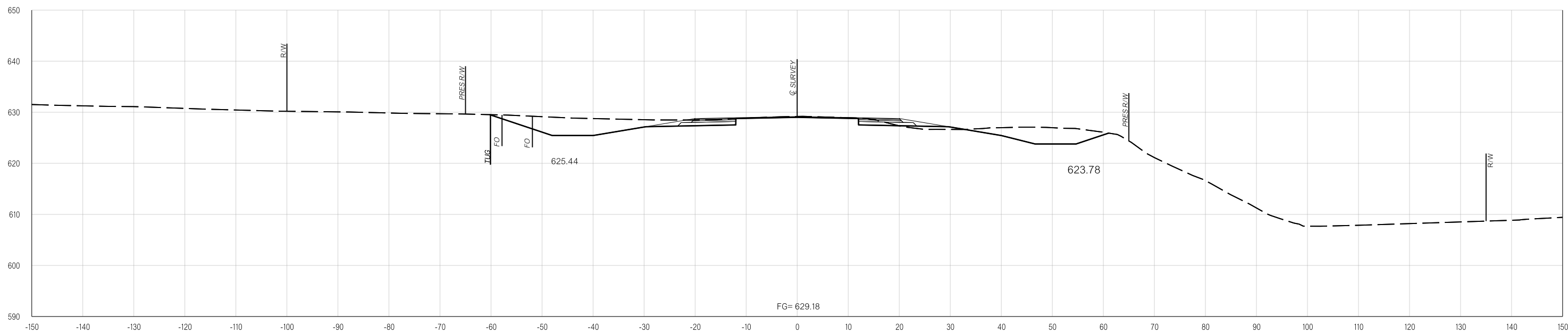
Sta. 1335+99.79' @ 24"x54.99' RDY.
RCP. Cross Drain 21.66'Lt. & 33.33' Rt.
LG Elev. = 624.90' Lt. & 619.15' Rt.

STR. X
STA. 1345+99.74
EXTEND EXIST. 24"x54.99' LG. RCP.
24.00' LG. LT. & 30.00' LG. RT.

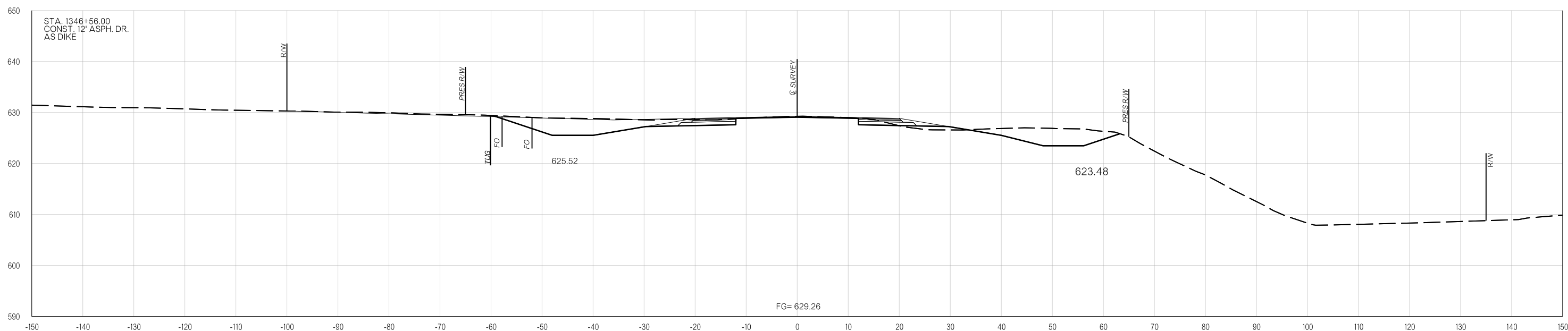
PROPOSED R/W

02-03-20

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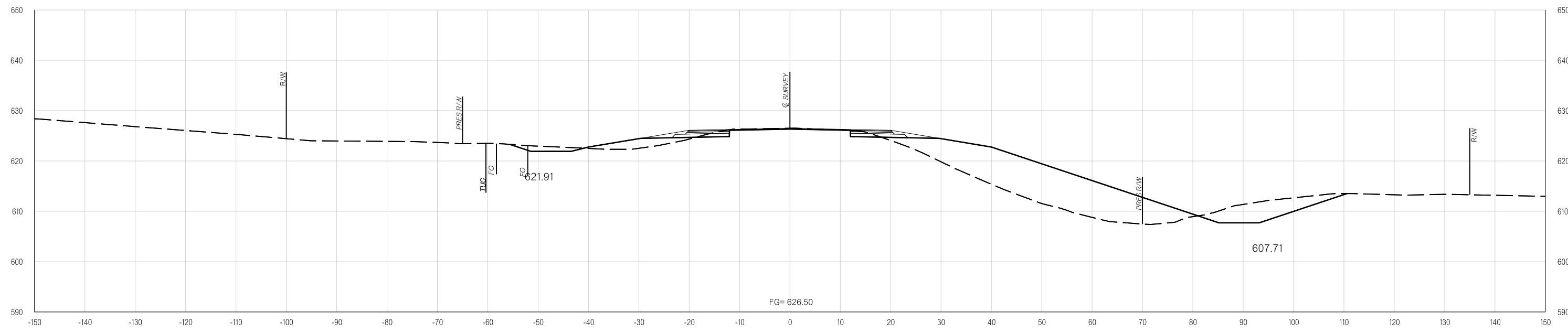


1346+59.55

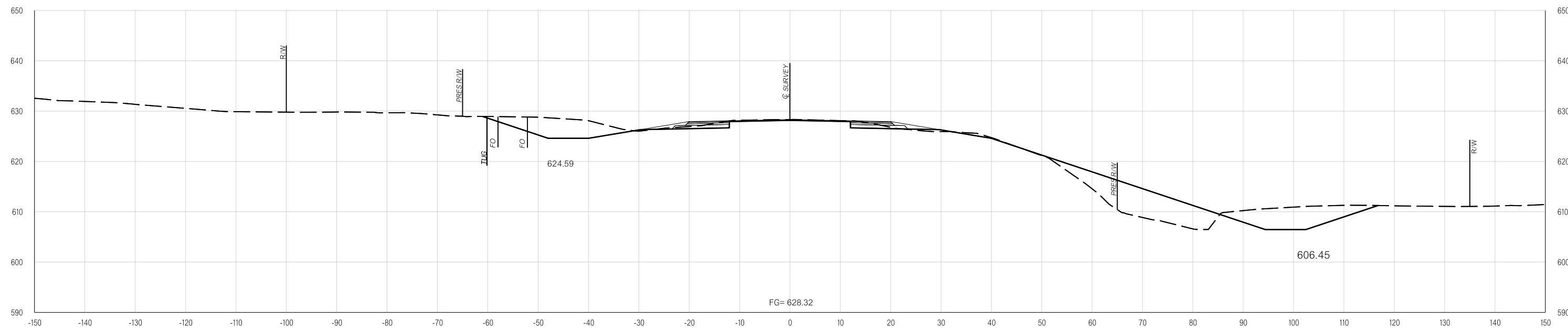


1346+56.00

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1348+00.00



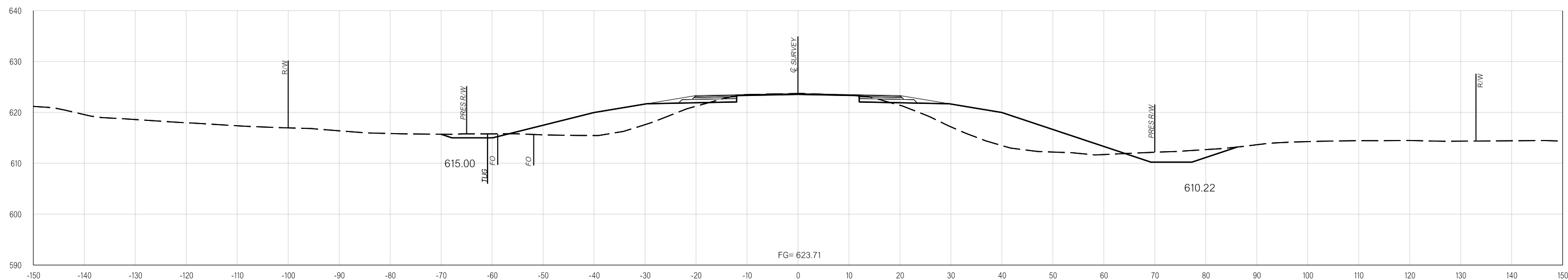
1347+00.00

PROPOSED R/W

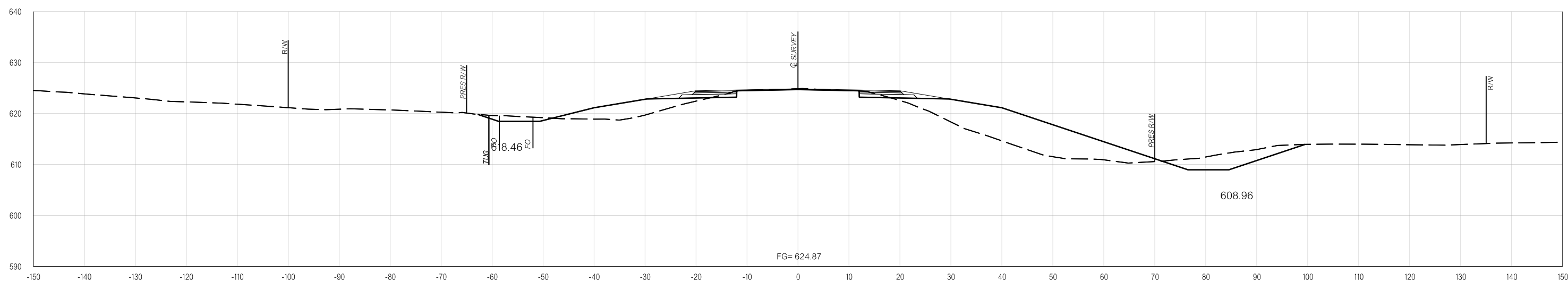
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02-03-20



1350+00.00

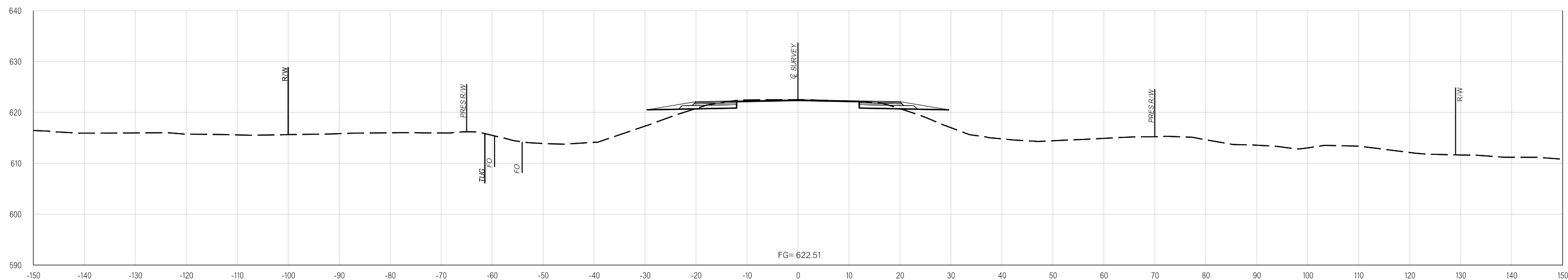


1349+00.00

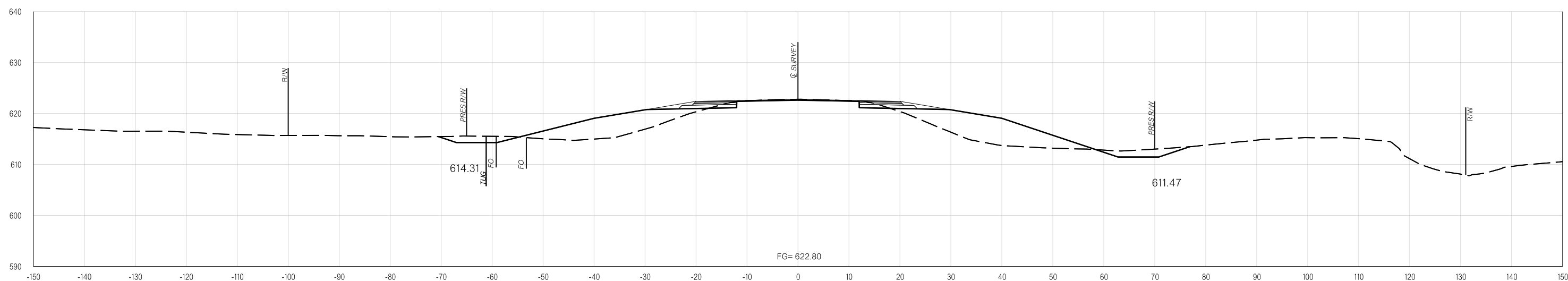
PROPOSED R/W

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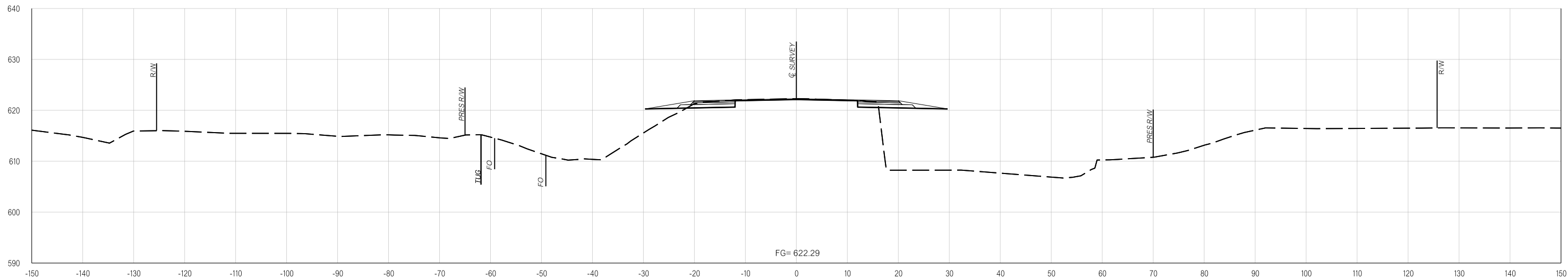


1352+00.00

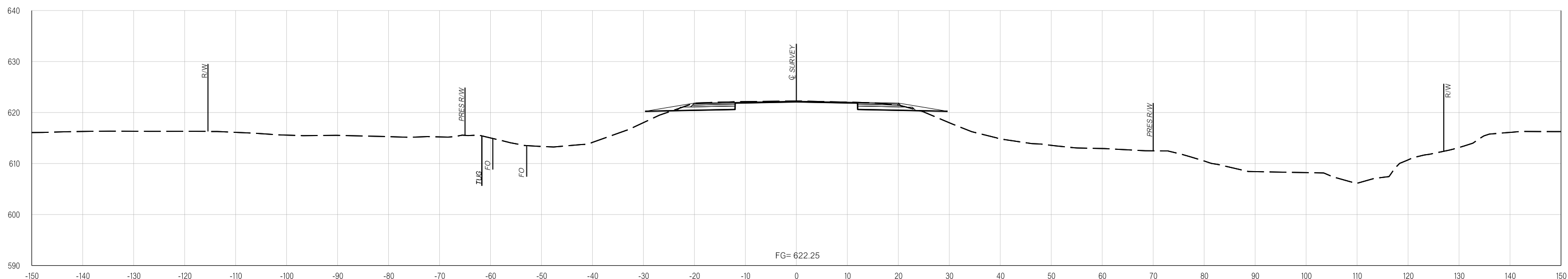


1351+00.00

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1353+65.34

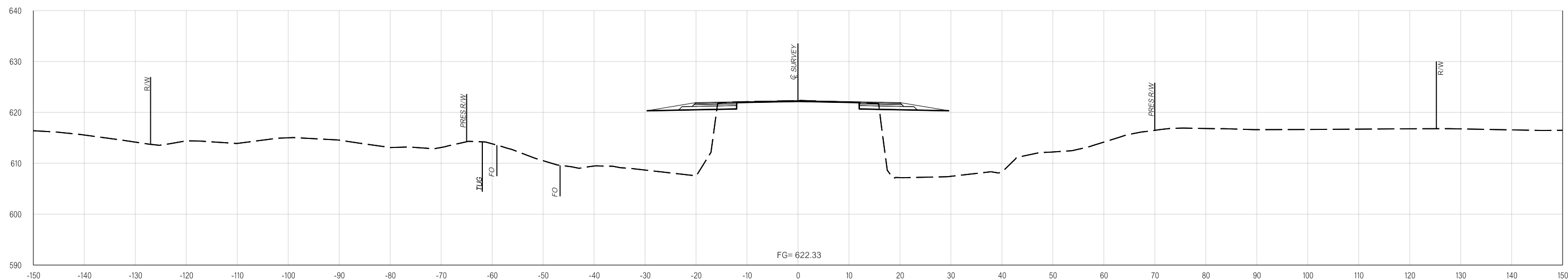


1353+00.00

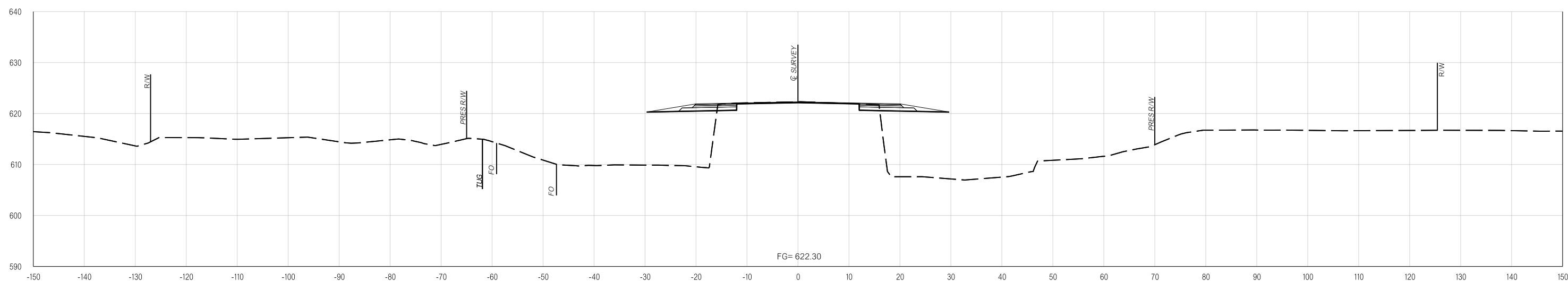
PROPOSED R/W

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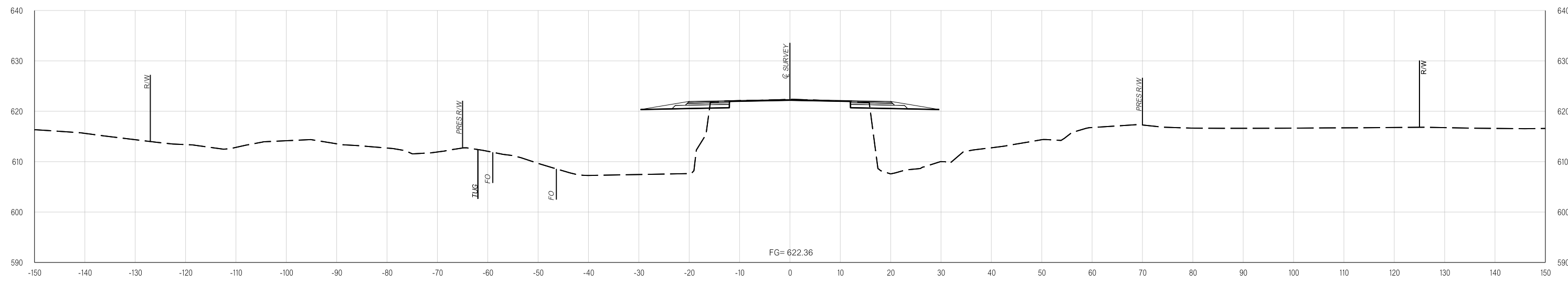


1353+88.08

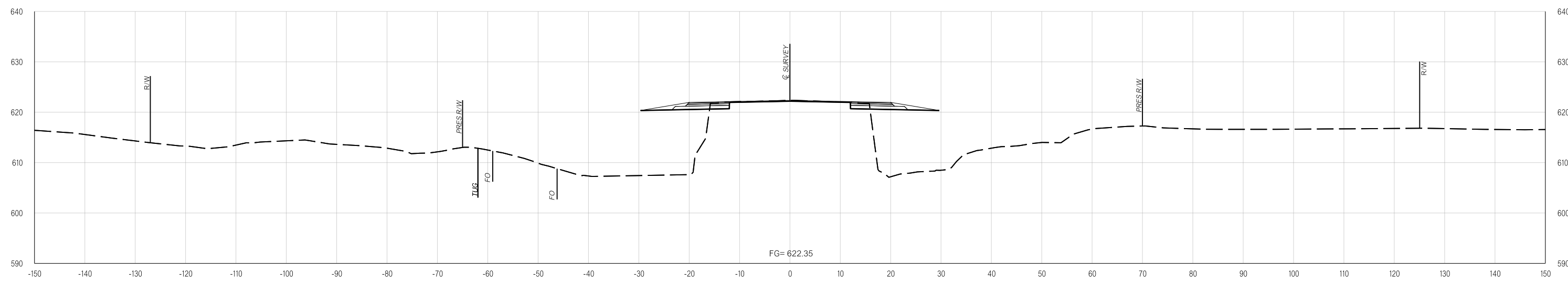


1353+78.27

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 02-03-20



1354+00.00

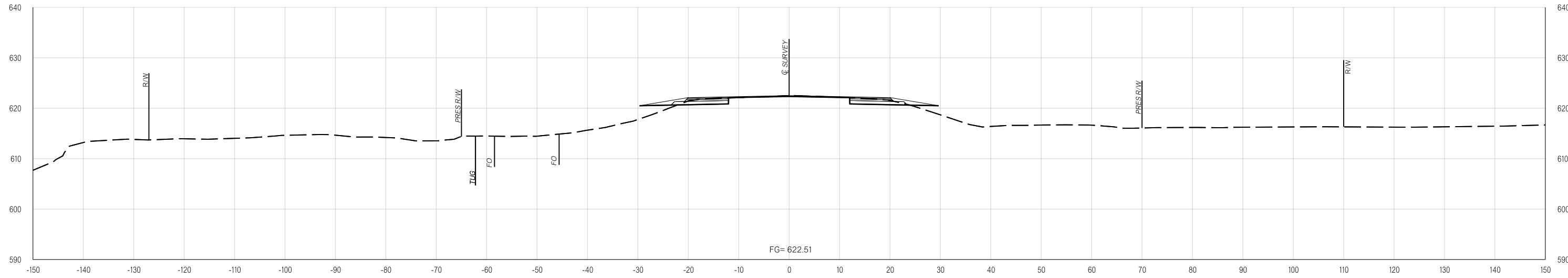


1353+97.82

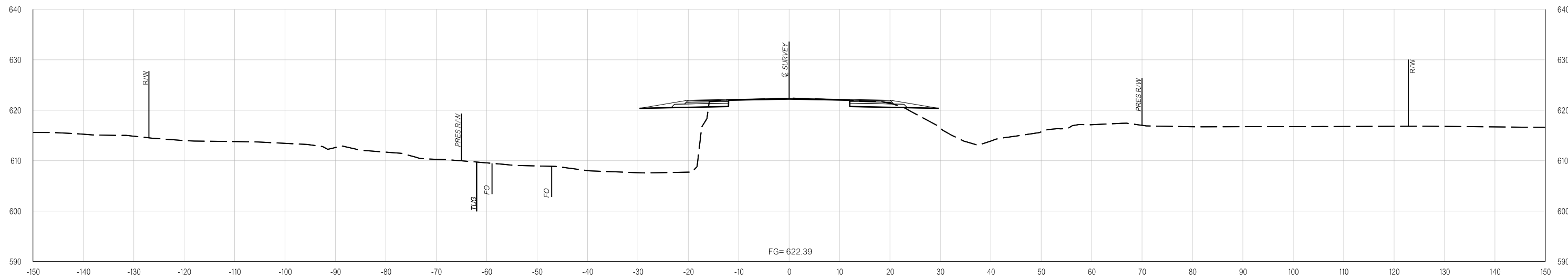
PROPOSED R/W

02-03-20

02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



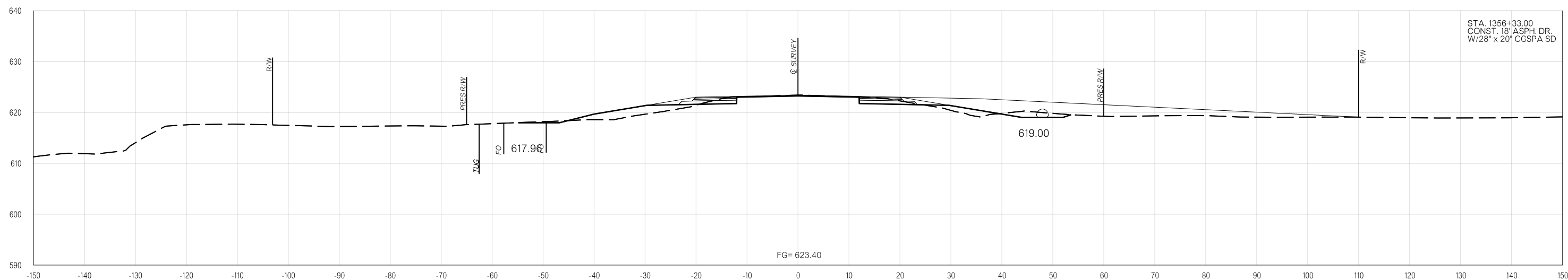
1355+00.00



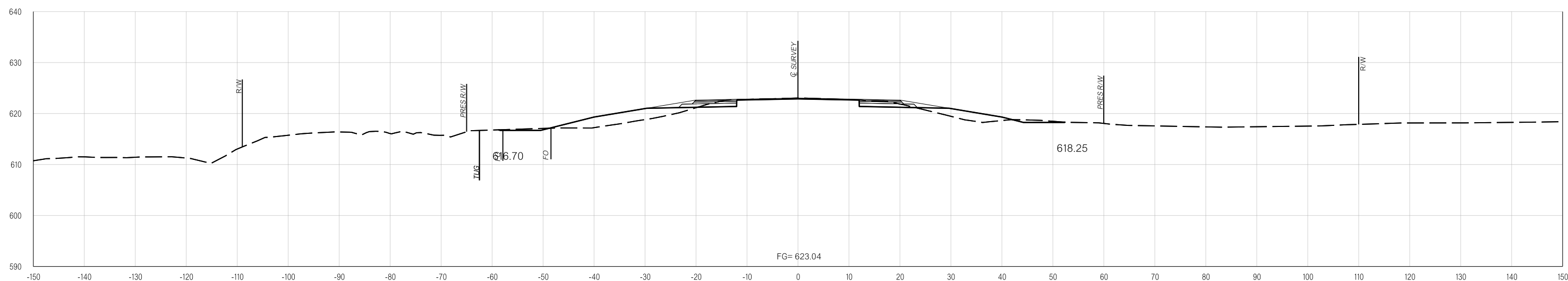
1354+10.93

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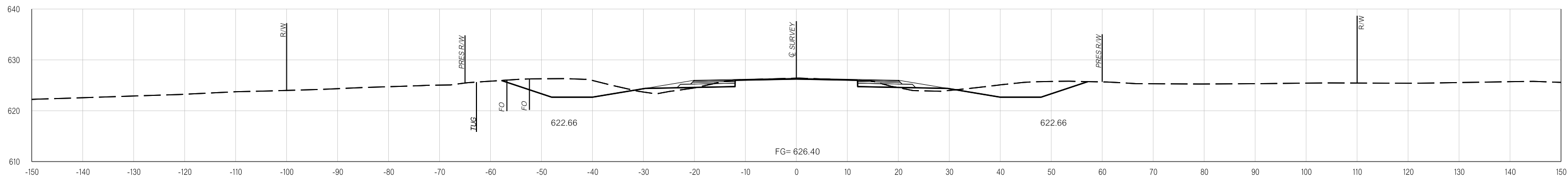
02-09-21



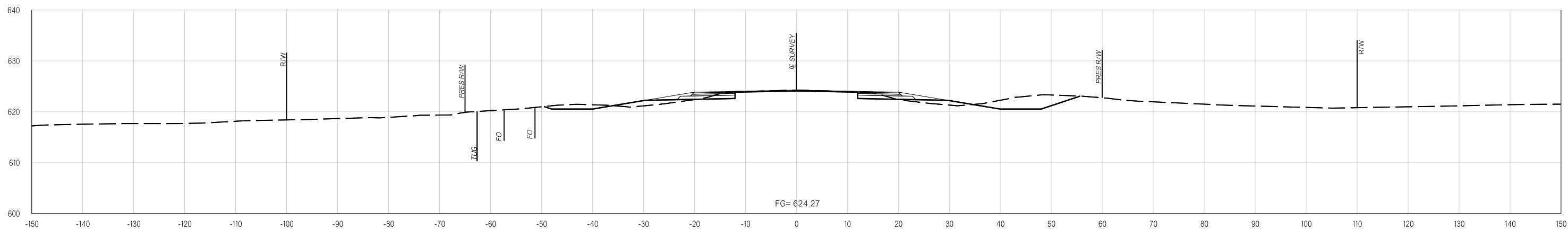
1356+33.00



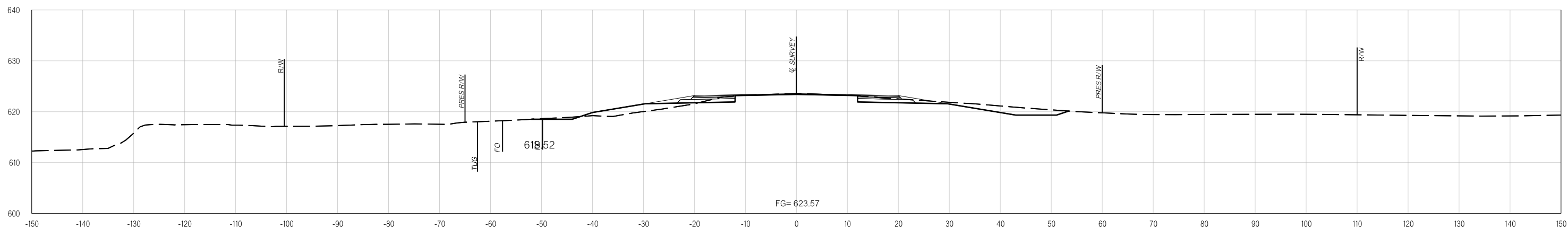
1356+00.00



1358+00.00



1357+00.00



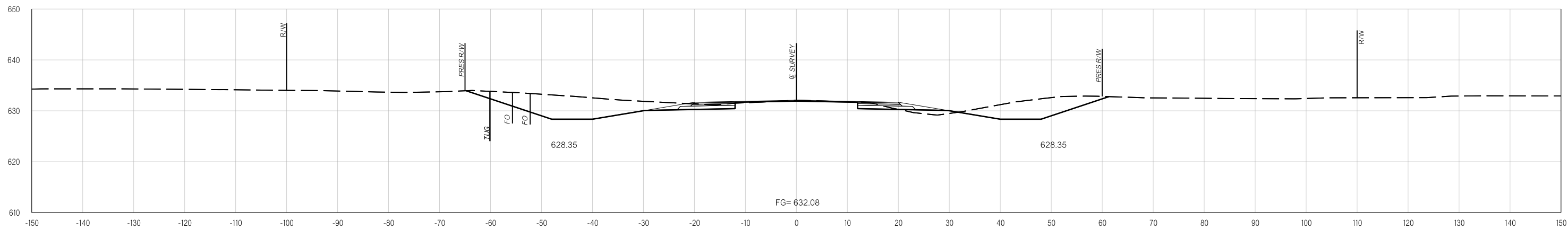
1356+47.46

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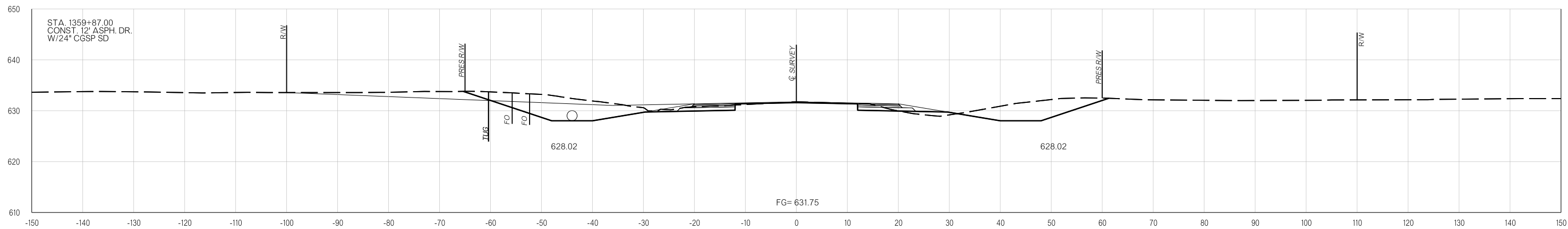
02-03-20

PROPOSED R/W

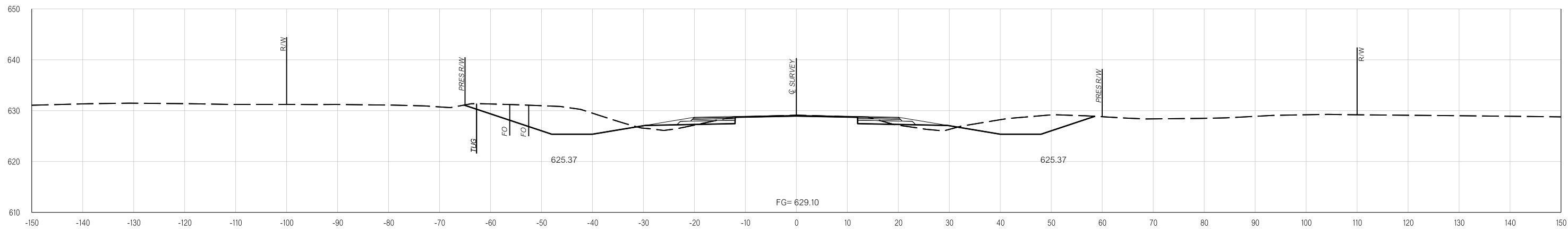
02-03-20



1359+97.18



1359+87.00

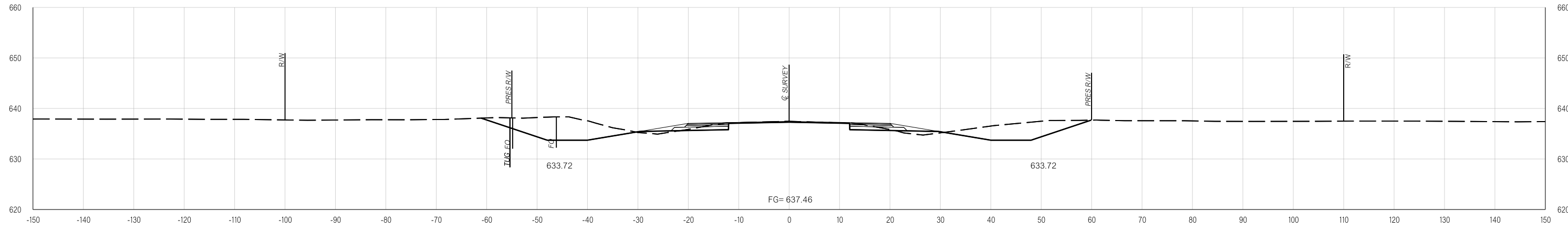


1359+00.00

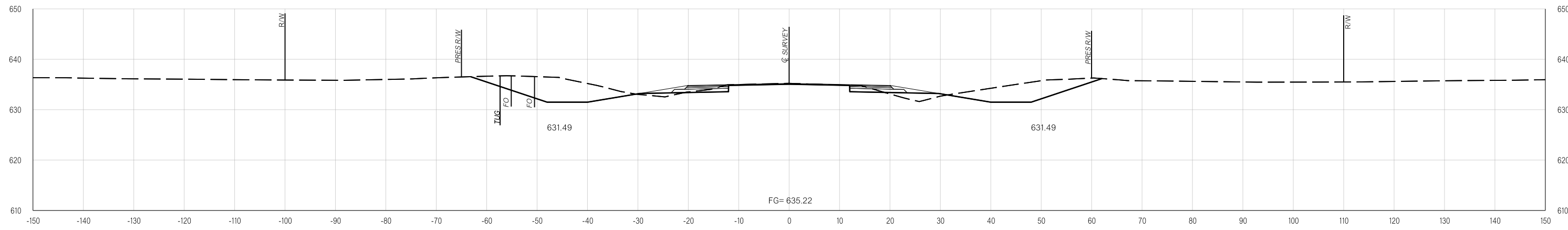
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02-03-20

PROPOSED R/W

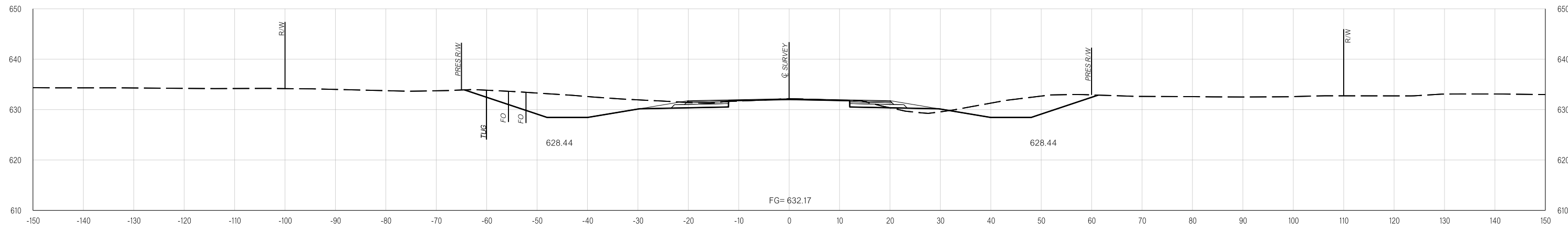
02-03-20



1362+00.00



1361+00.00



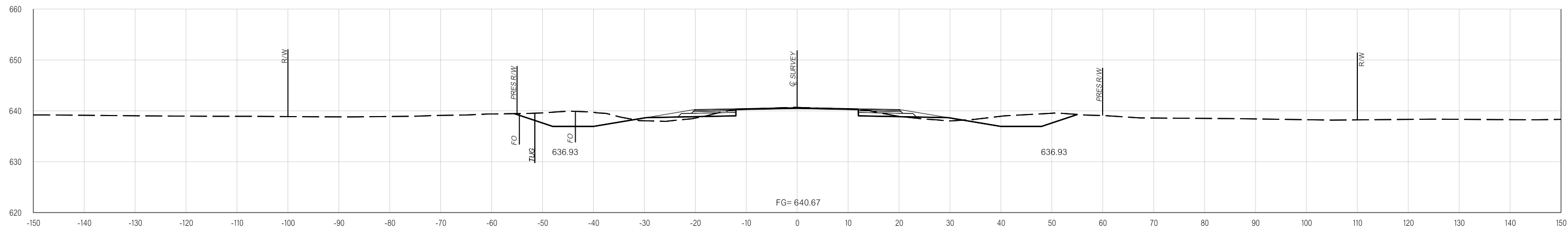
1360+00.00

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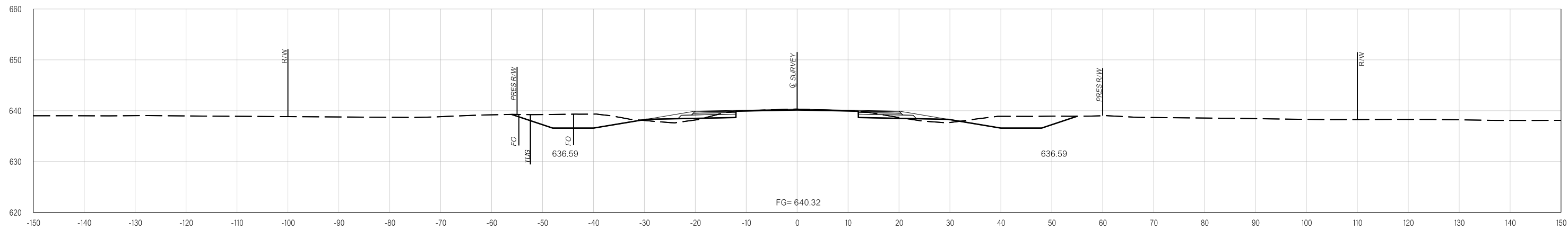
02-03-20

PROPOSED R/W

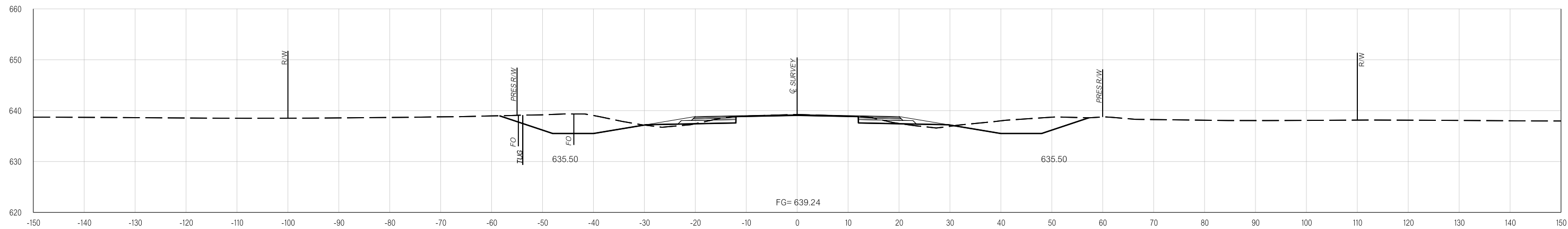
02-03-20



1365+00.00



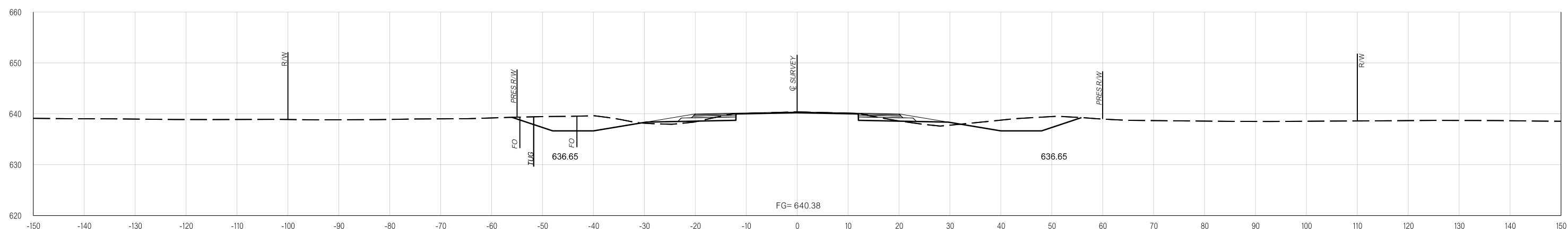
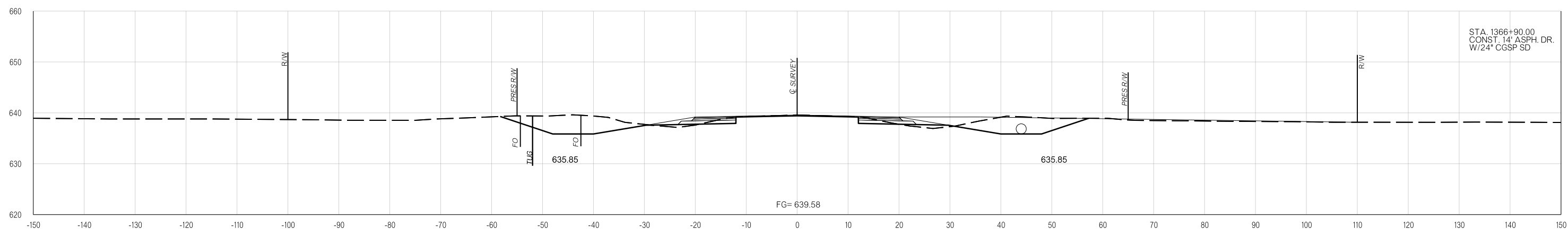
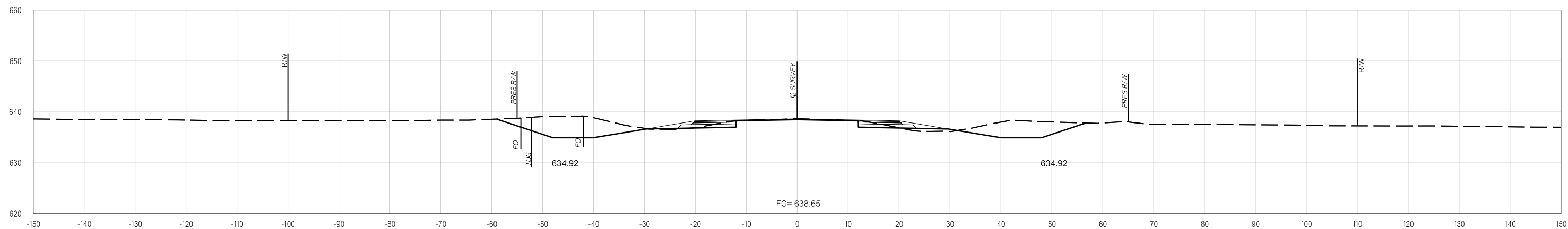
1364+00.00



1363+00.00

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02-03-20



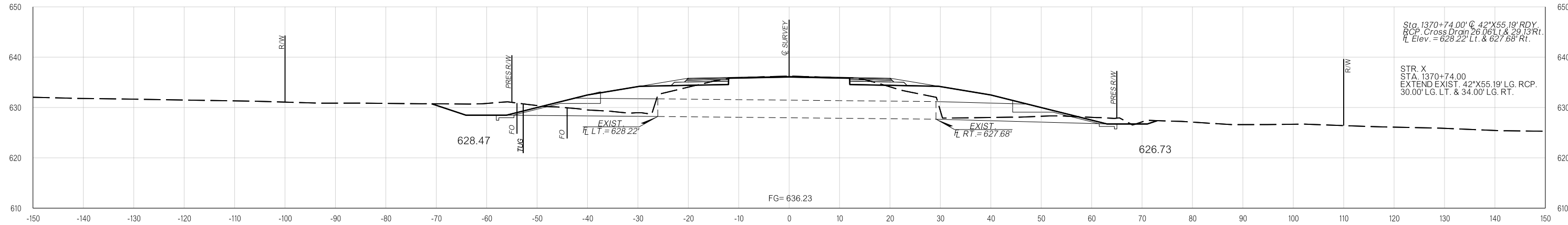
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PROPOSED R/W

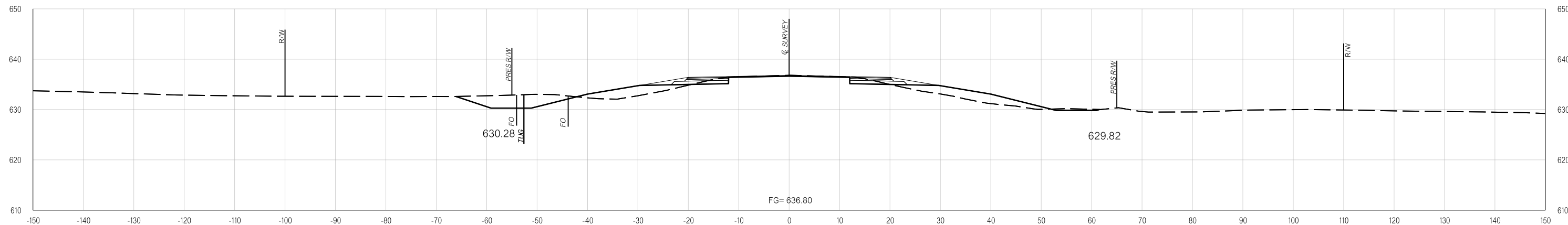
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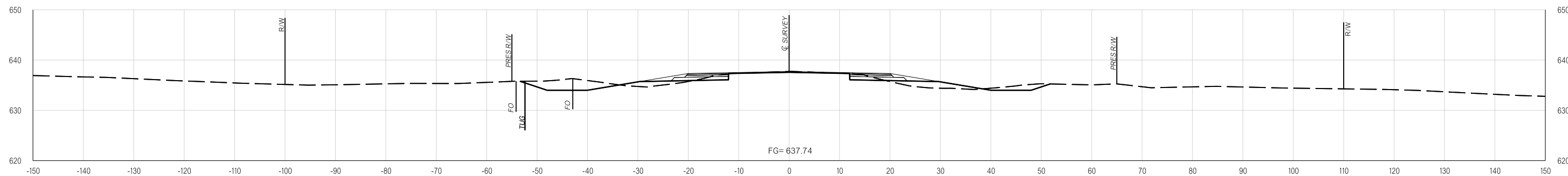
02-03-20



1370+74.02



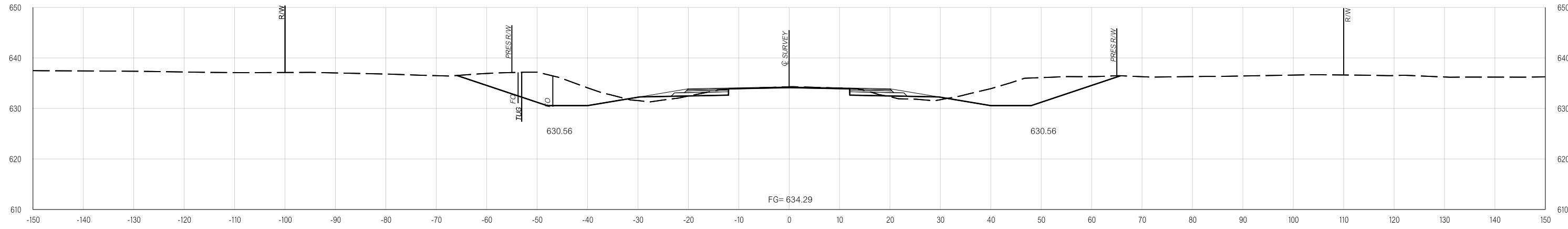
1370+00.00



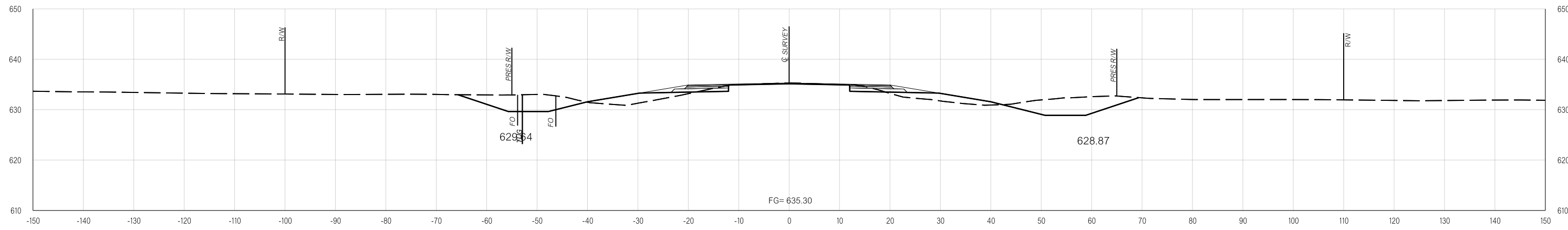
1369+00.00

PROPOSED R/W

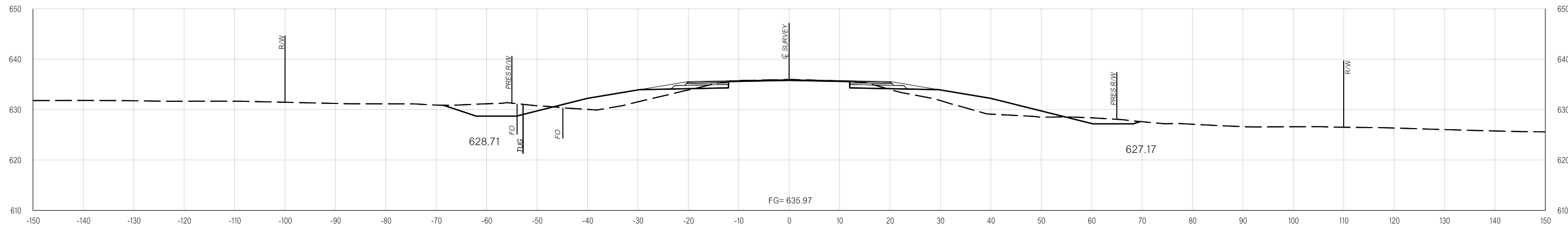
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1373+00.00



1372+00.00

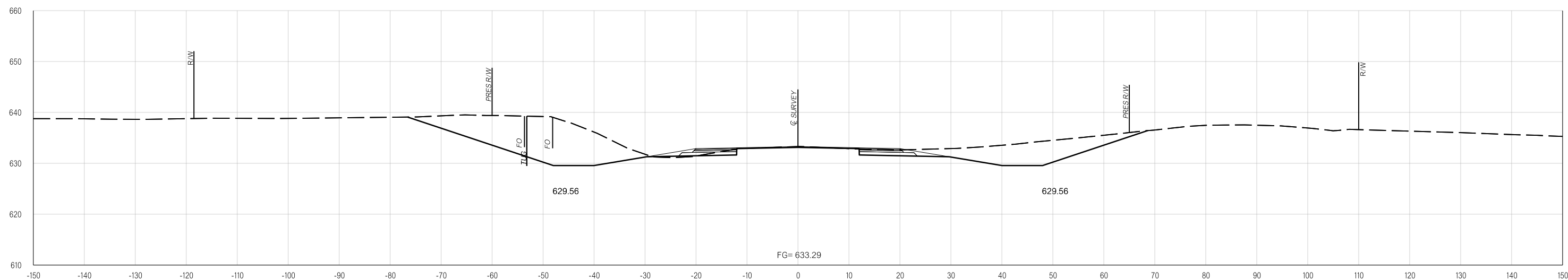


1371+00.00

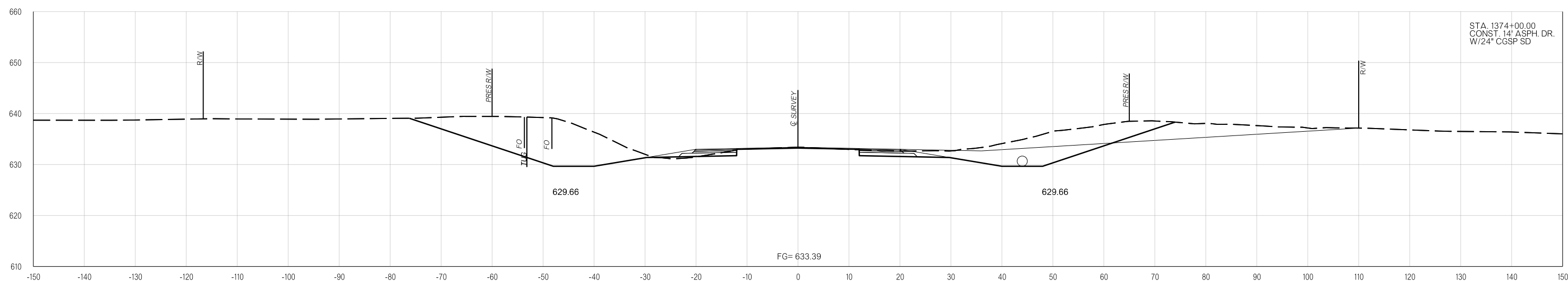
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02-03-20

03-22-22 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1374+10.95

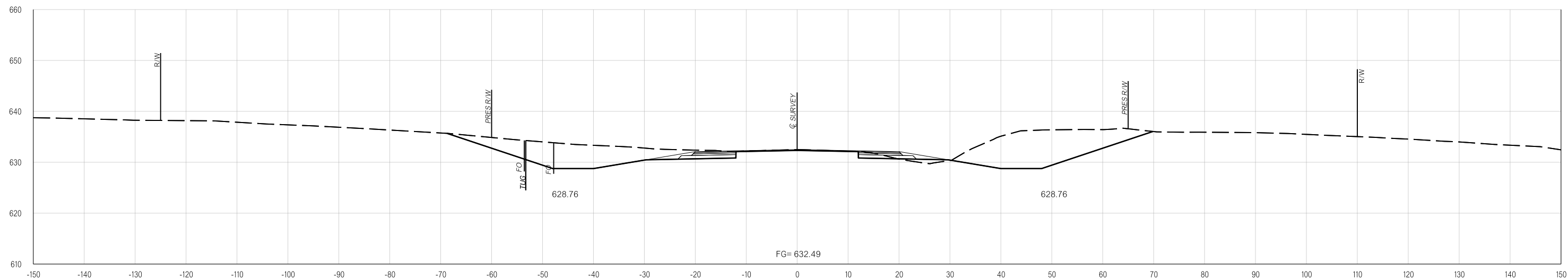


1374+00.00

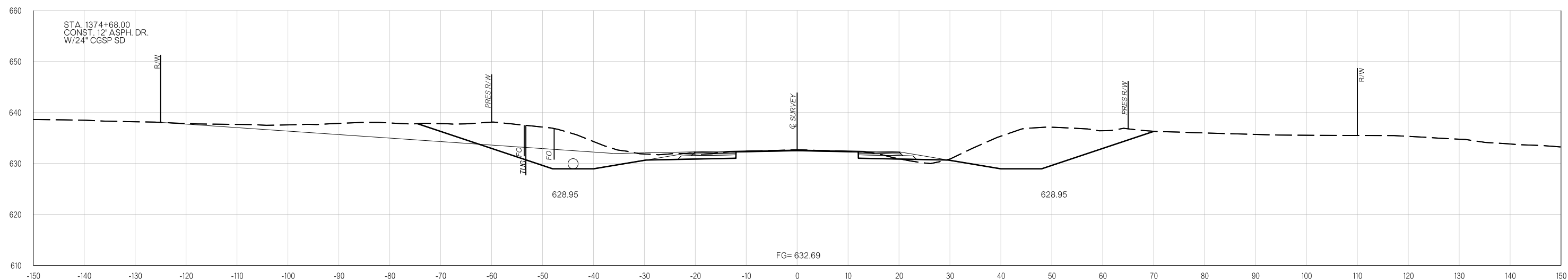
PROPOSED R/W

02-03-20

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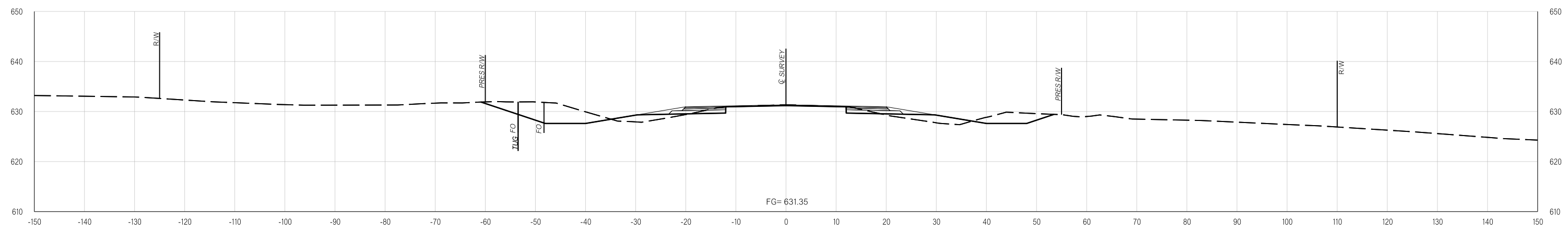


1374+84.36

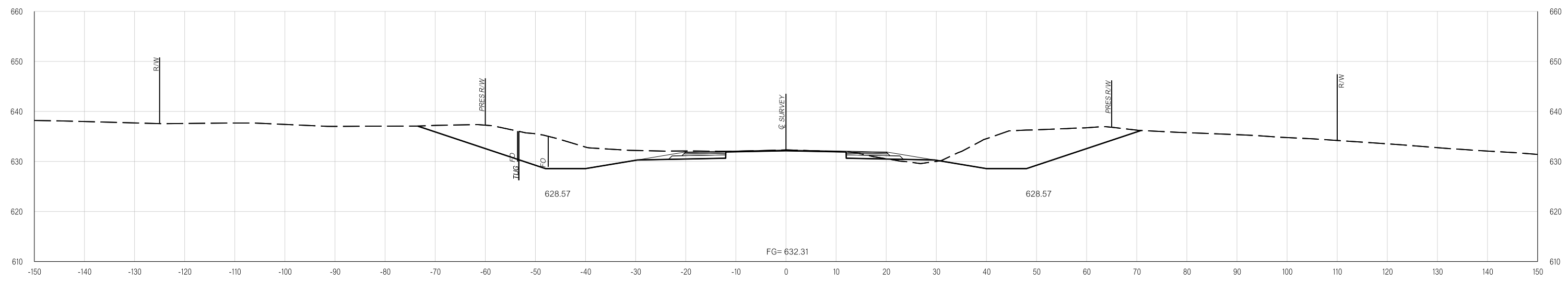


1374+68.00

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 02-03-20



1376+00.00

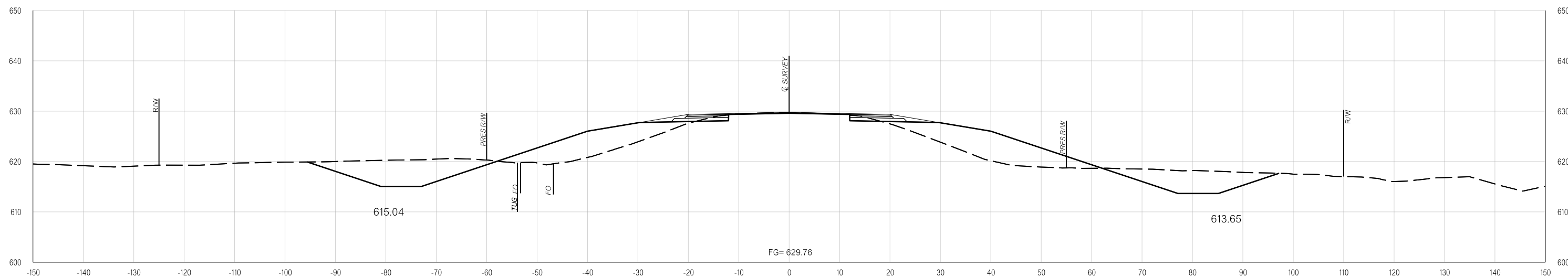


1375+00.00

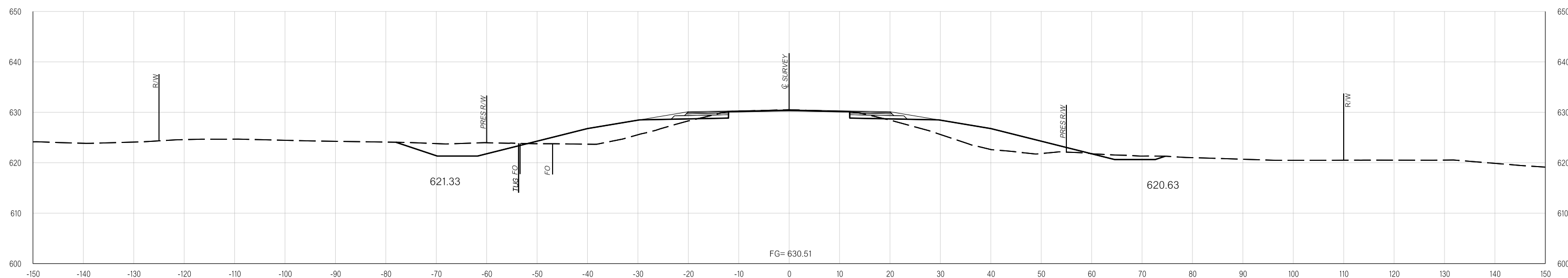
PROPOSED
R/W

02-03-20

02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn

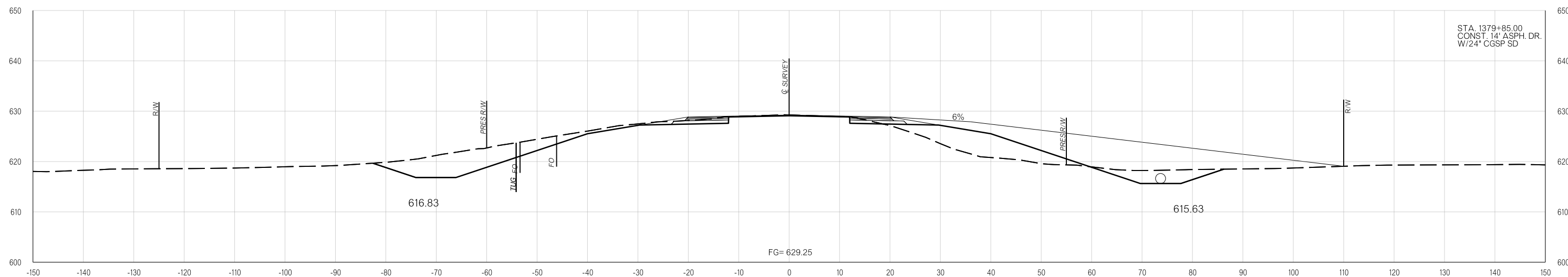


1378+00.00

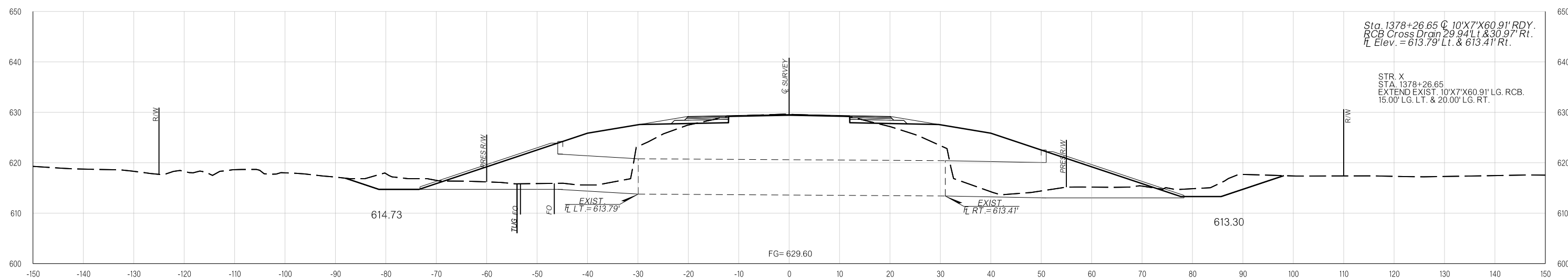


1377+00.00

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1379+00.00

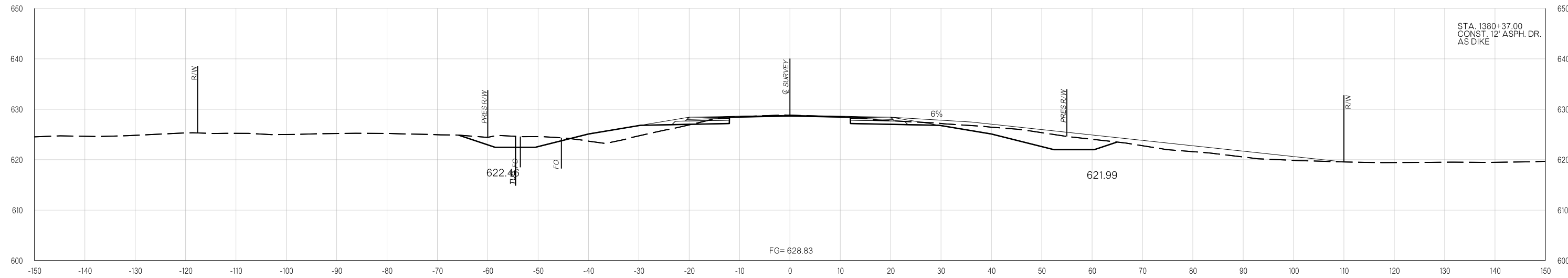


1378+26.90

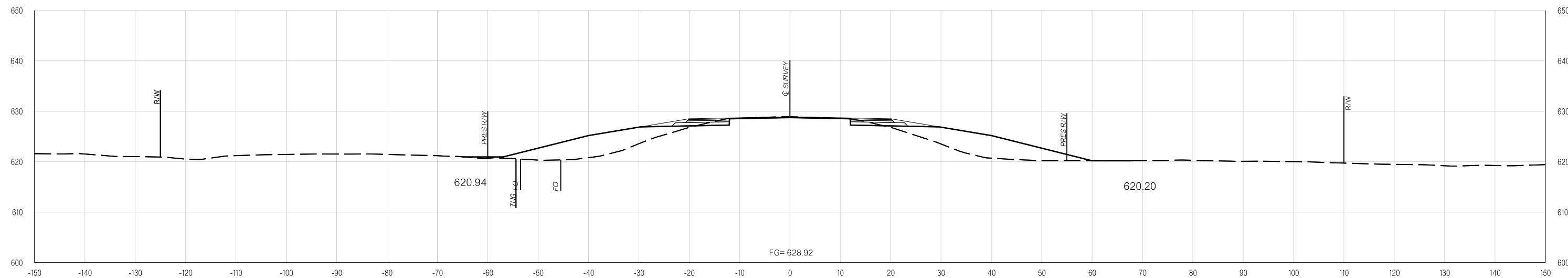
PROPOSED R/W

02-03-20

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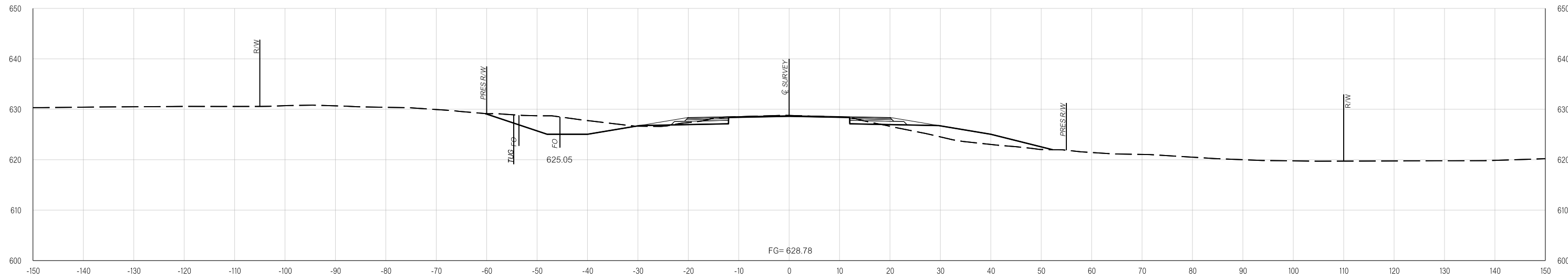


1380+37.00

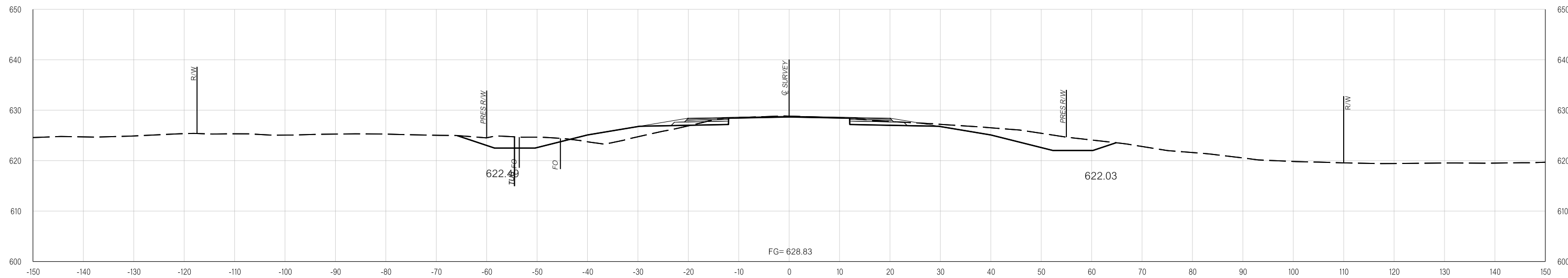


1380+00.00

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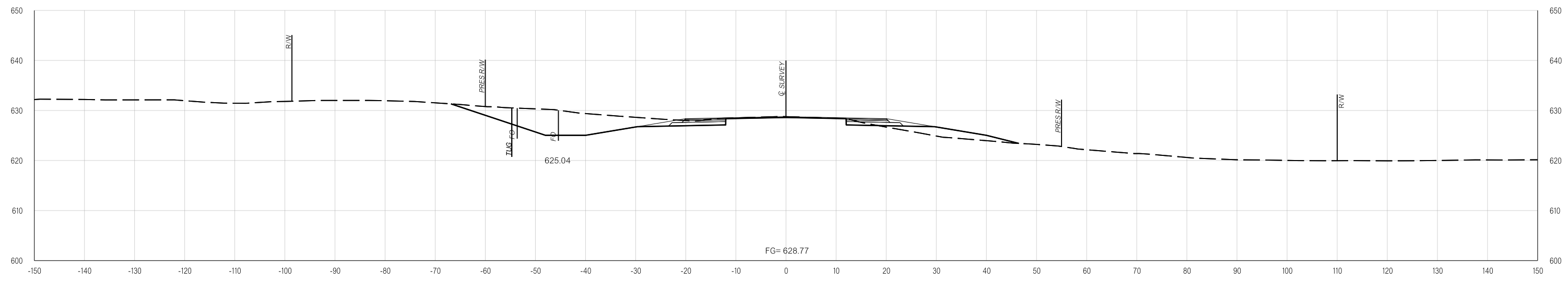


1381+00.00

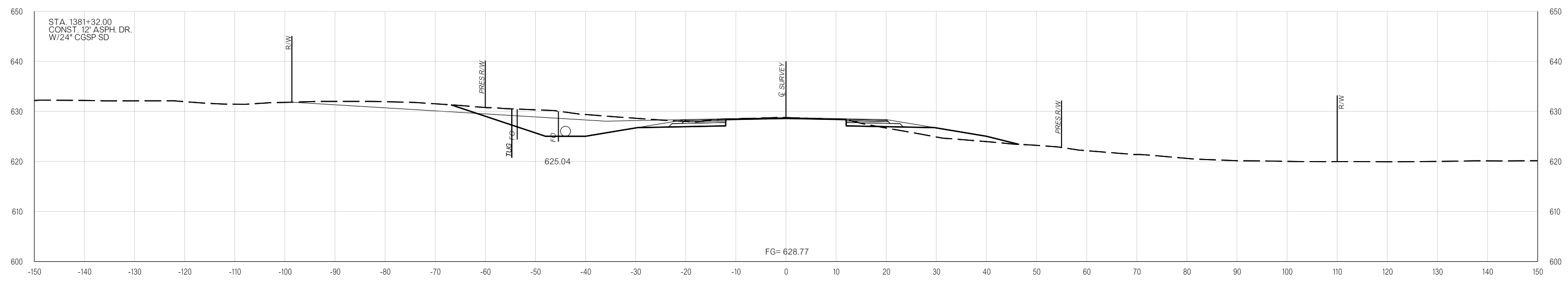


1380+37.74

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1381+32.05

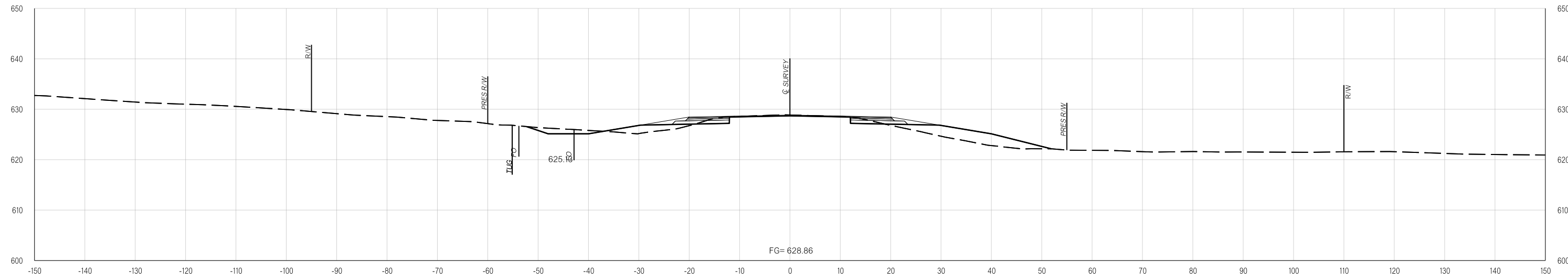


1381+32.00

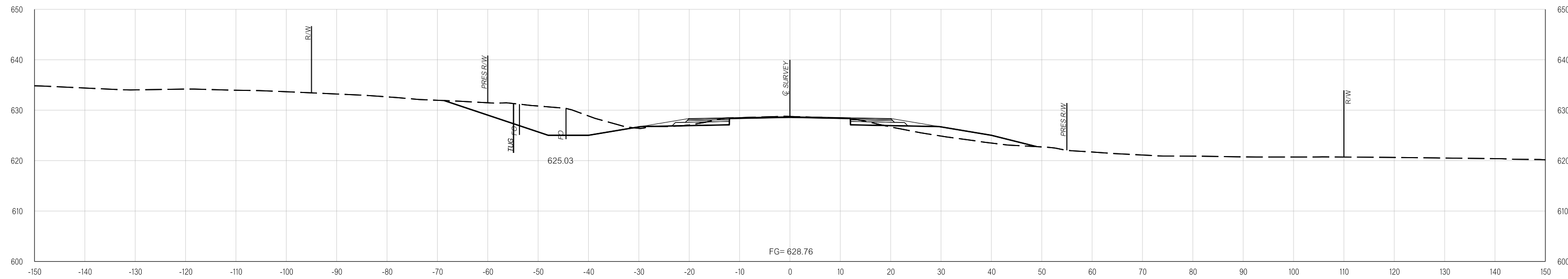
PROPOSED R/W

02-03-20

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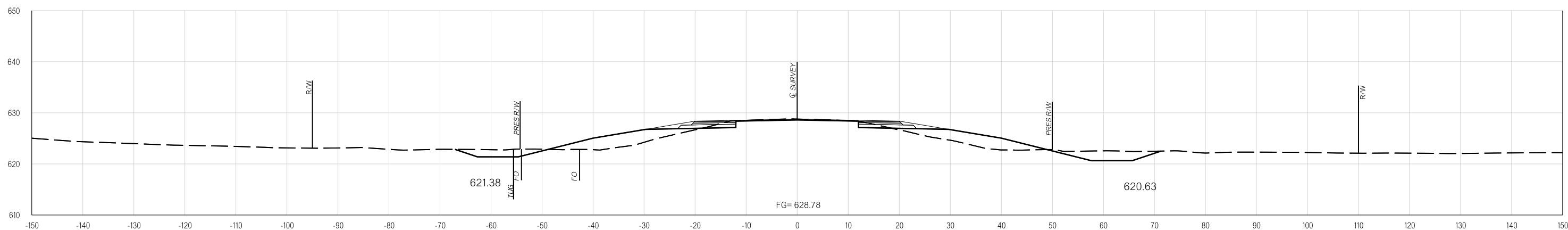


1383+00.00

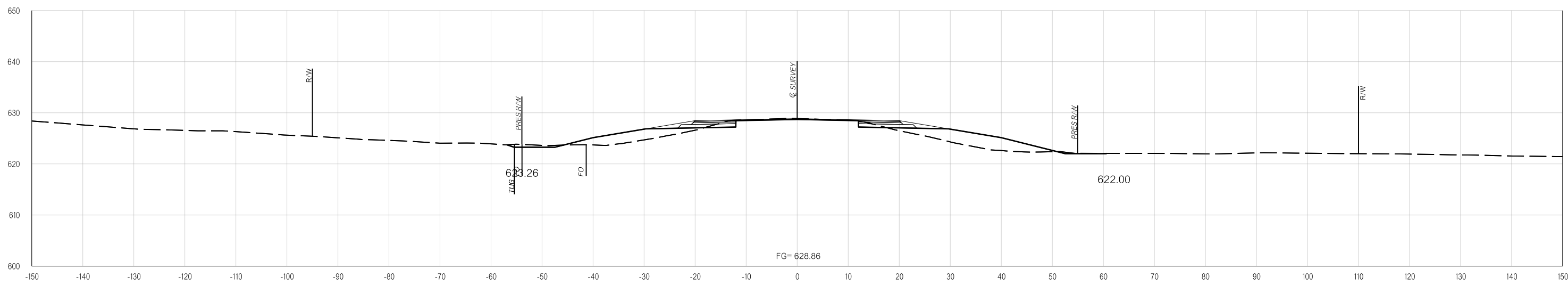


1382+00.00

02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1385+00.00



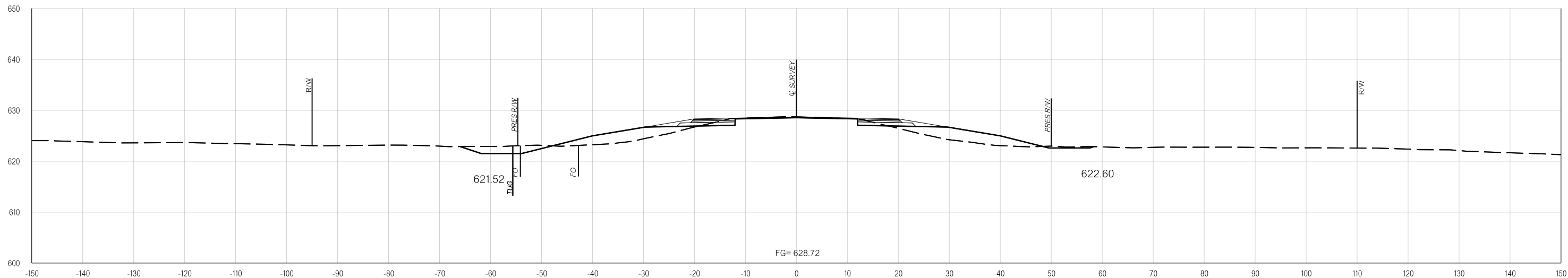
1384+00.00

PROPOSED R/W

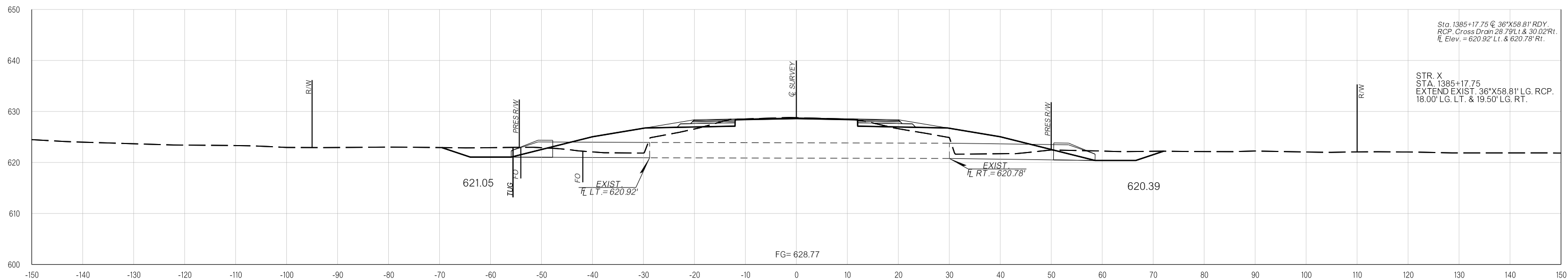
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02-03-20



1386+00.00



1385+17.87

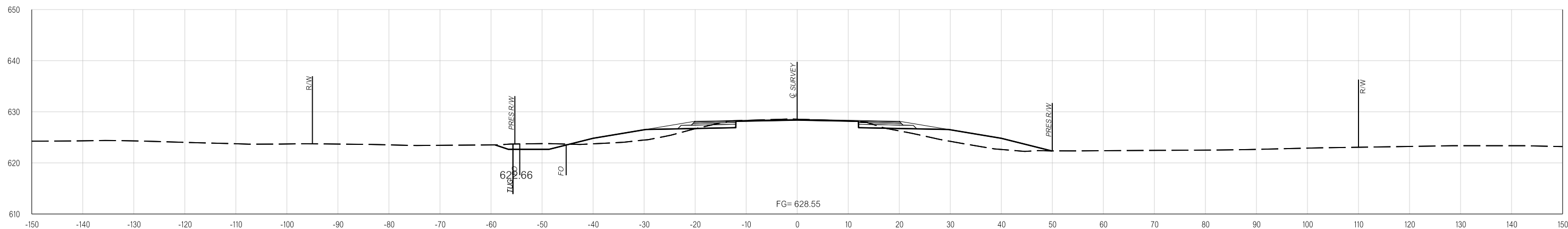
Sta. 1385+17.75 @ 36"x58.81" RDY.
RCP, Cross Drain 28.79' Lt. & 30.02' Rt.
TL Elev. = 620.92' Lt. & 620.78' Rt.

STR. X
STA. 1385+17.75
EXTEND EXIST. 36"x58.81" LG. RCP.
18.00' LG. LT. & 19.50' LG. RT.

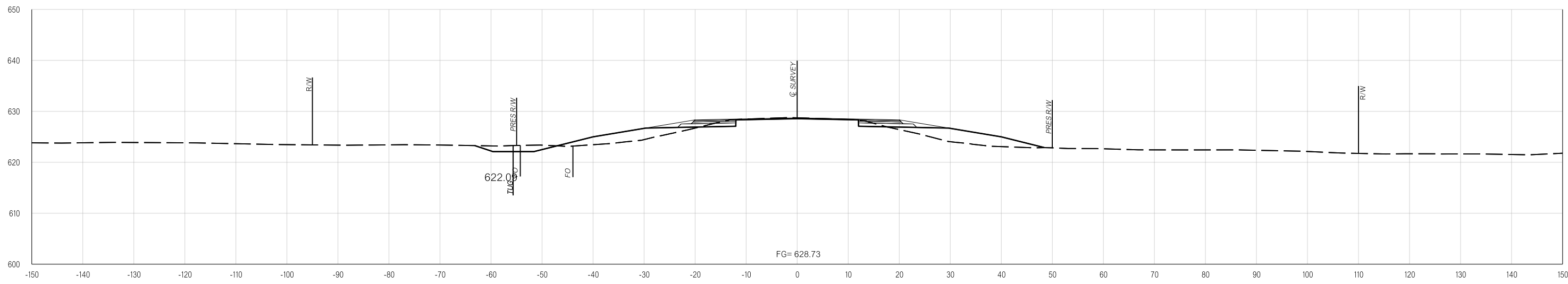
PROPOSED R/W

02-03-20

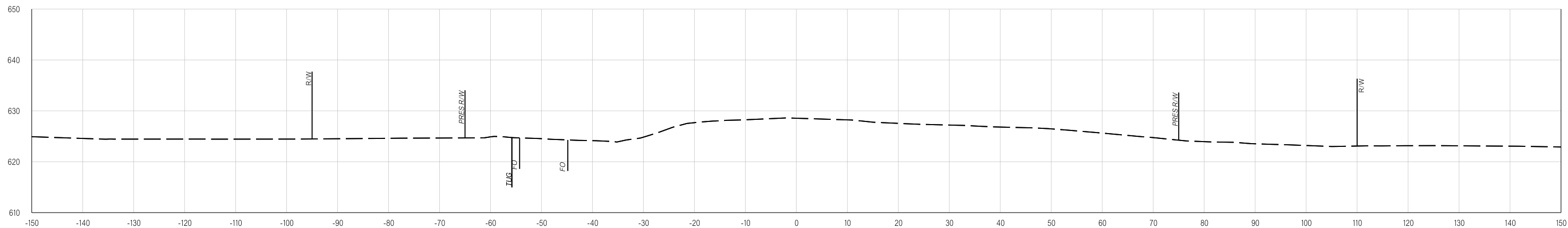
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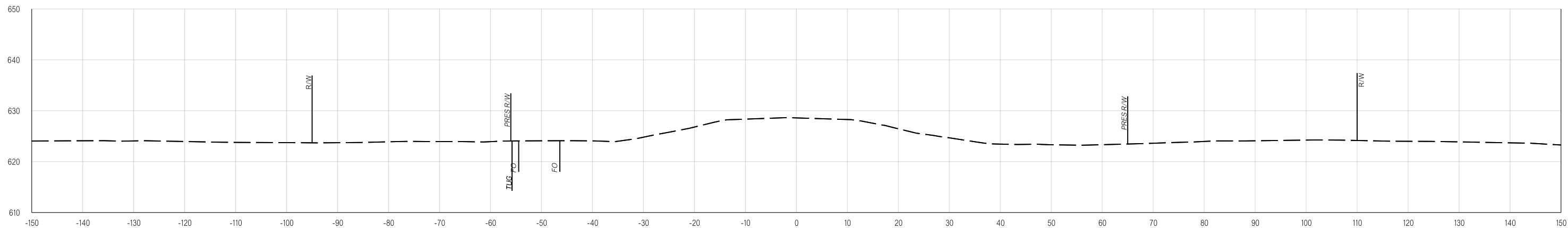
1388+00.00



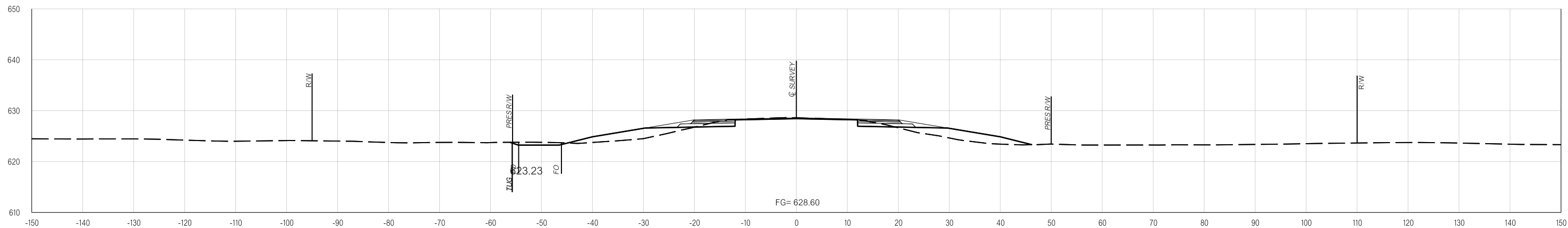
1387+00.00



1390+76.00

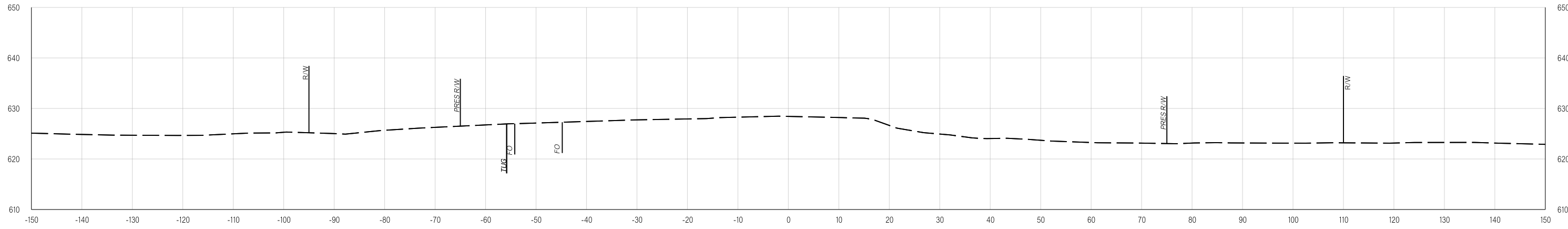


1390+00.00
BEGIN BRIDGE EXCEPTION

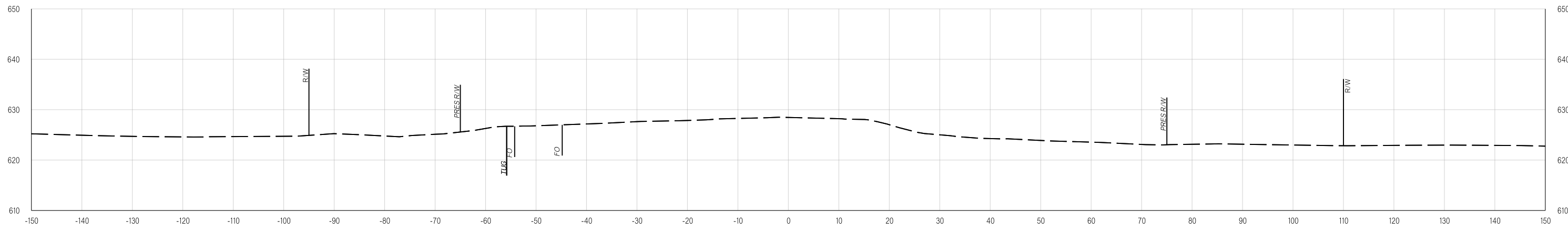


1389+00.00

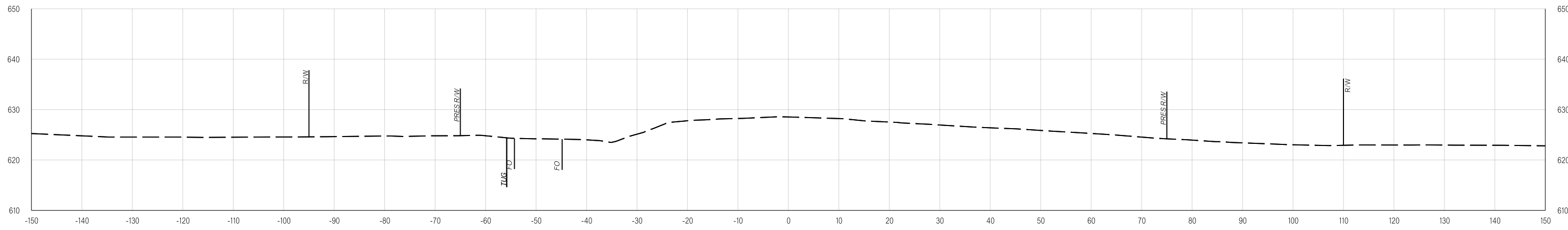
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1391+09.00



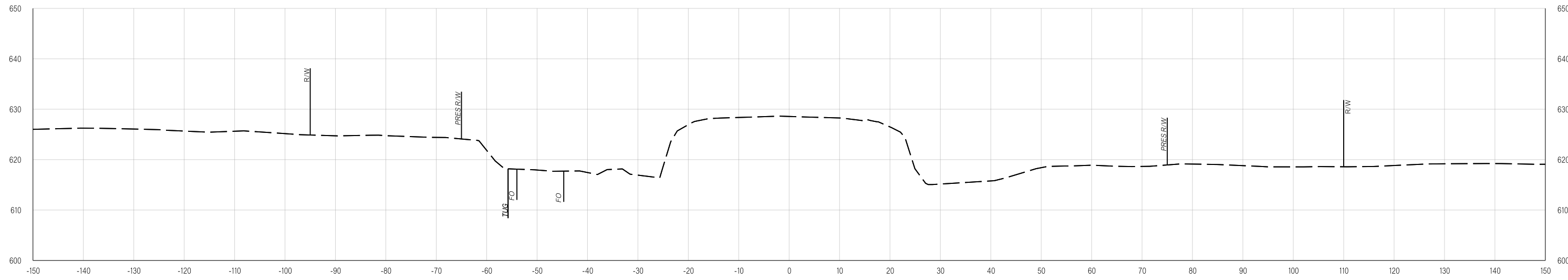
1391+00.00



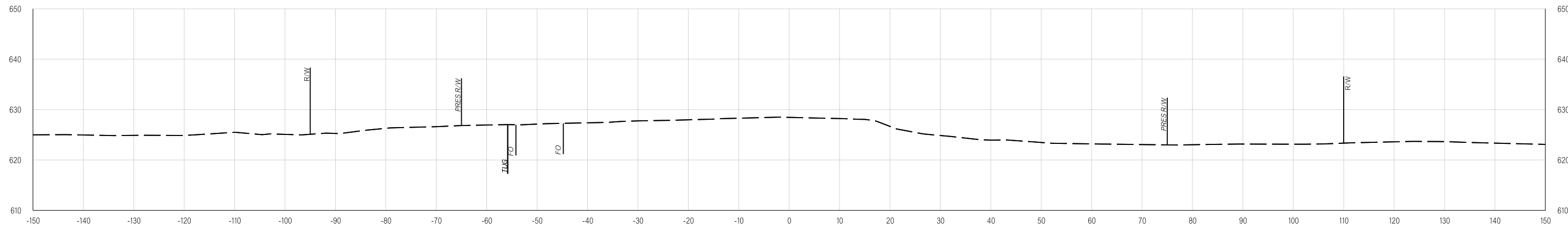
1390+81.66

02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn

02-03-20 pw:\APP-PWIS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1392+00.00

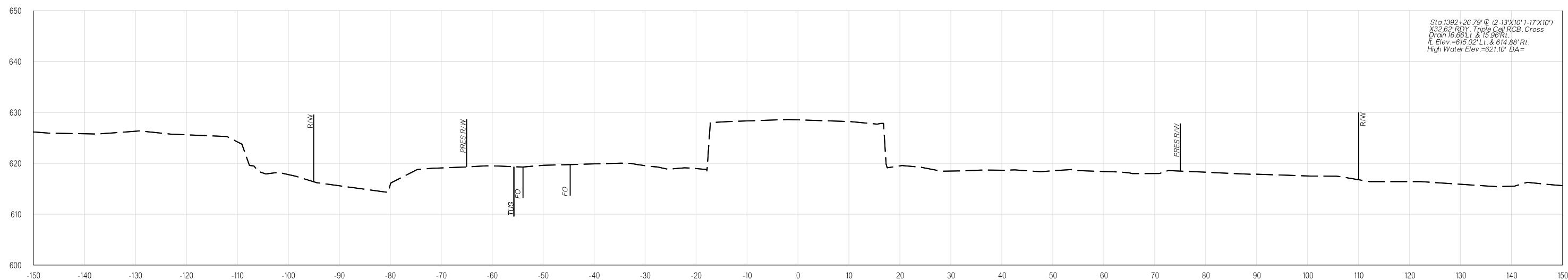


1391+19.32

PROPOSED R/W

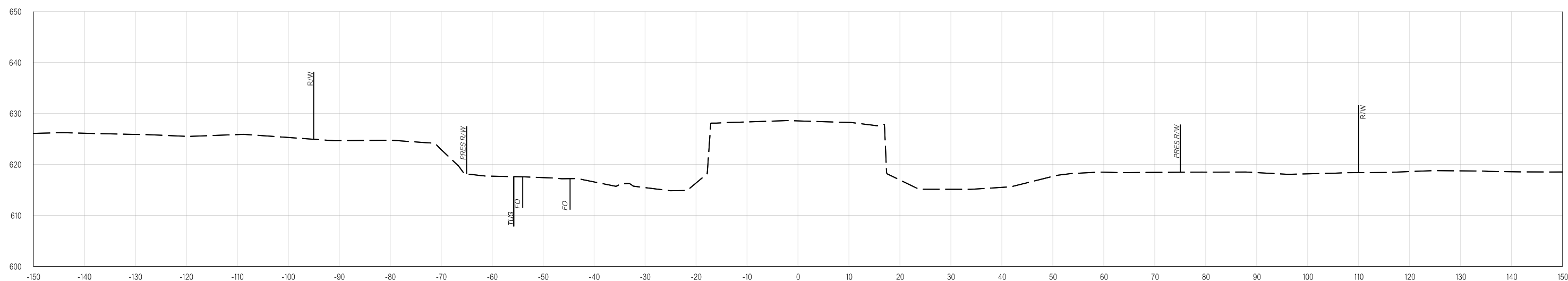
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02-03-20 pw:\VAPP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



Sta 1392+26.79' C (2-13'X10' 1-17'X10')
X32.62' RDY, Triple Cell RCB, Cross
Drain 16.66'L & 16.96'Rt.
H Elev. = 615.02' Lt. & 614.88' Rt.
High Water Elev. = 621.10' DA =

1392+26.77

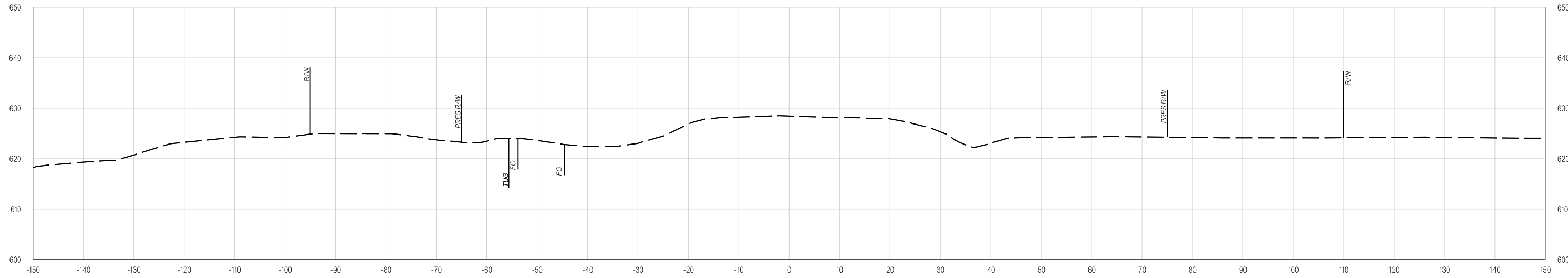


1392+04.40

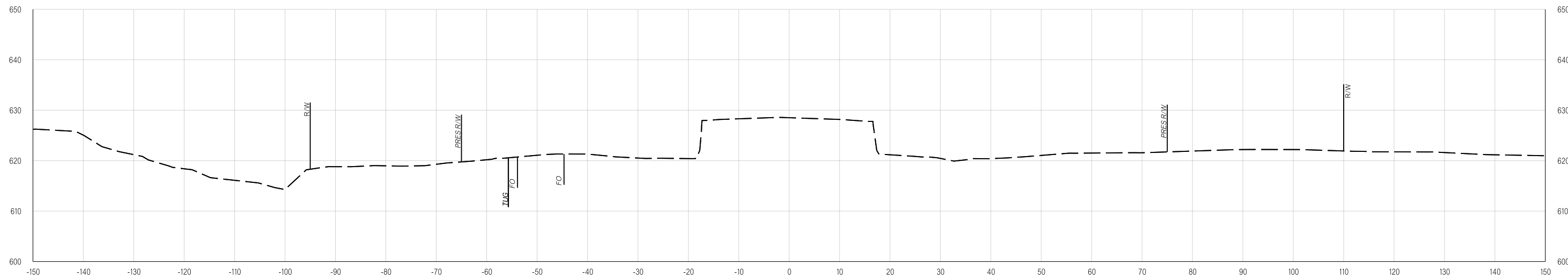
PROPOSED R/W

02-03-20

02-03-20 pw:\VAPP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1393+00.00

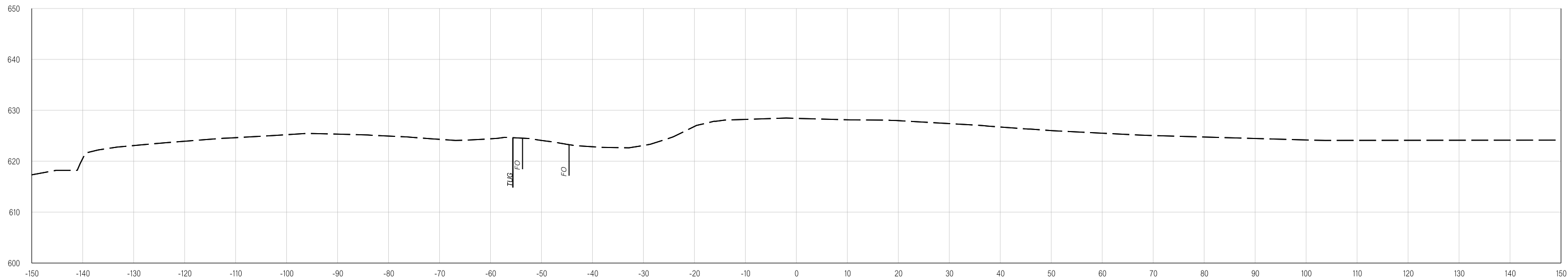


1392+49.21

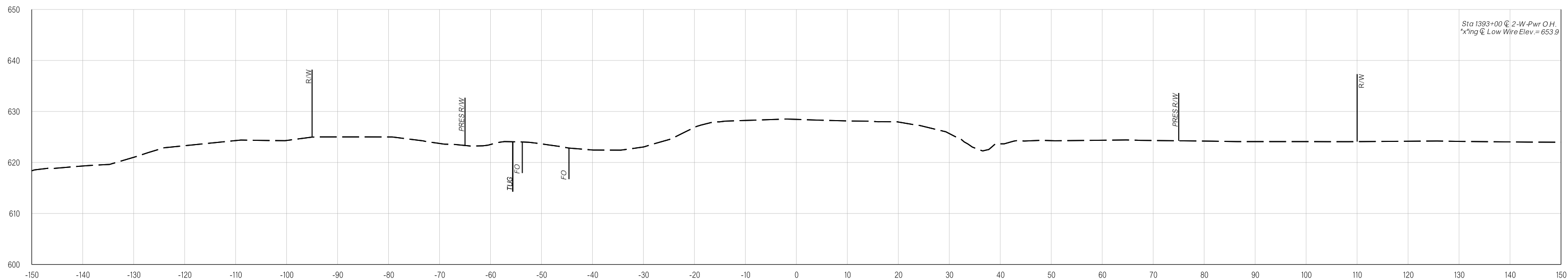
PROPOSED R/W

02-03-20

02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1393+18.82

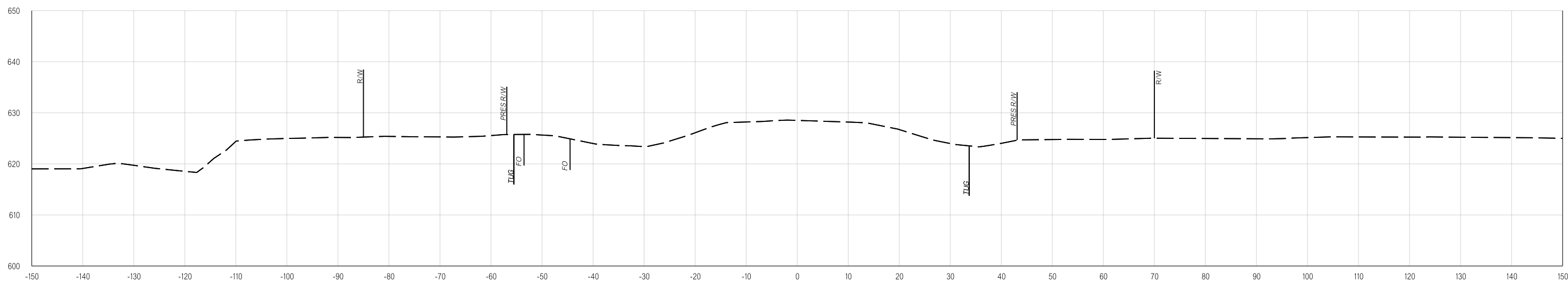


1393+01.02

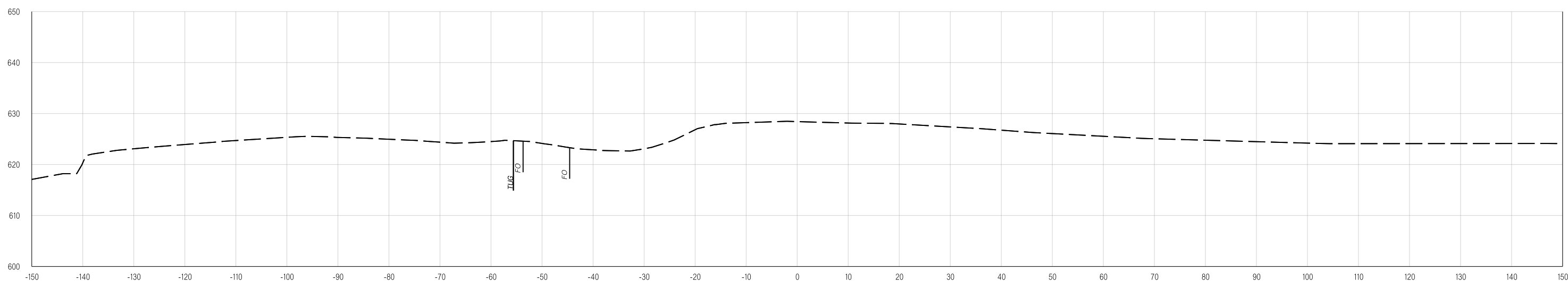
PROPOSED R/W

02-03-20

02-03-20 pw:\VAPP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn

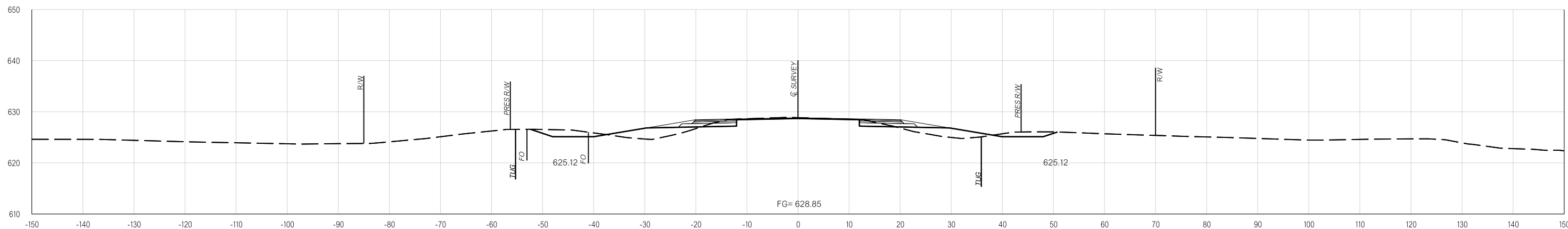


1394+00.00

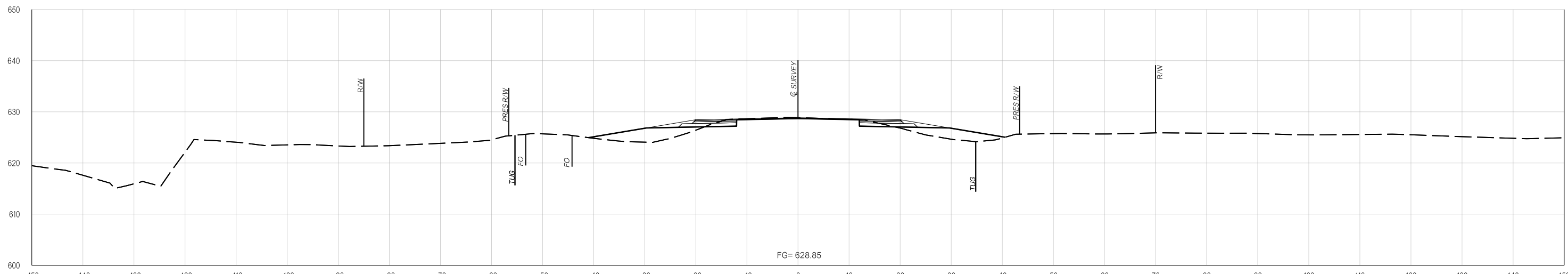


1393+21.00

02-03-20 pw:\APP-PWS05-345_agency_OK_local\DOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



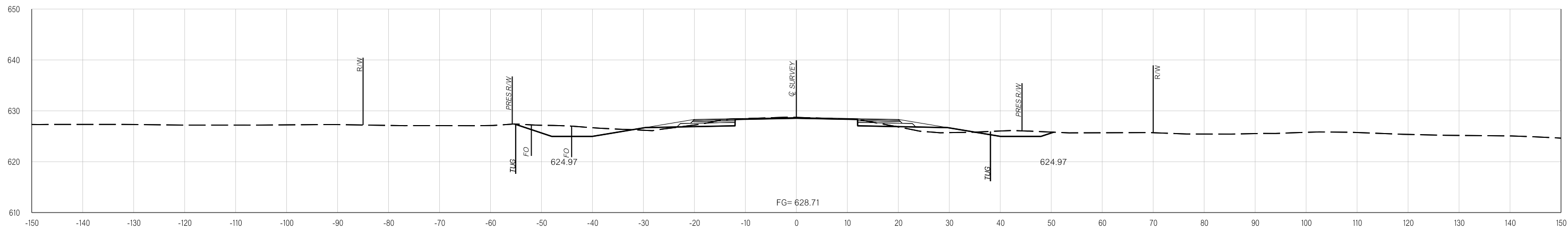
1396+00.00



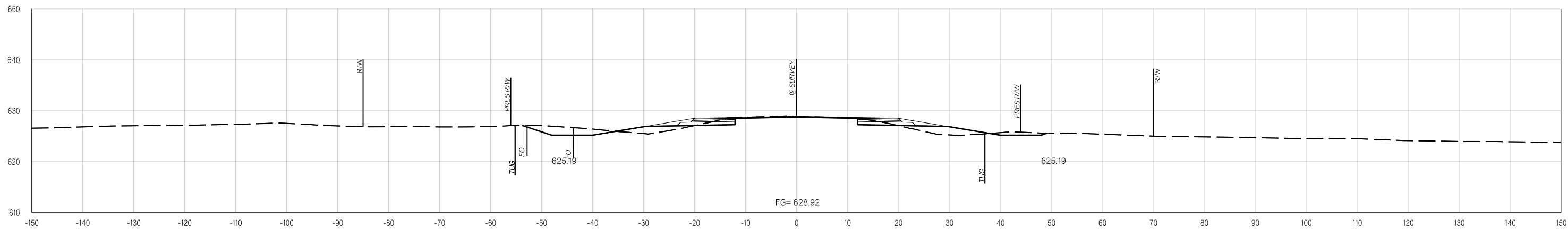
END BRIDGE EXCEPTION
1395+00.00

PROPOSED R/W

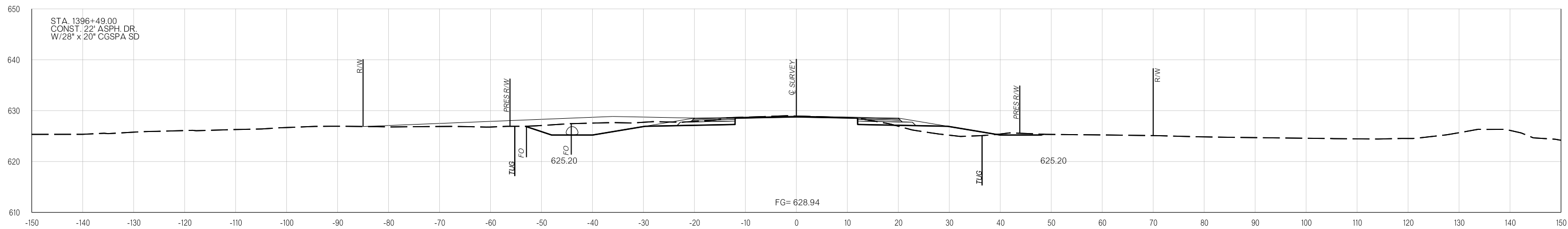
02-03-20



1398+00.00



1397+00.00

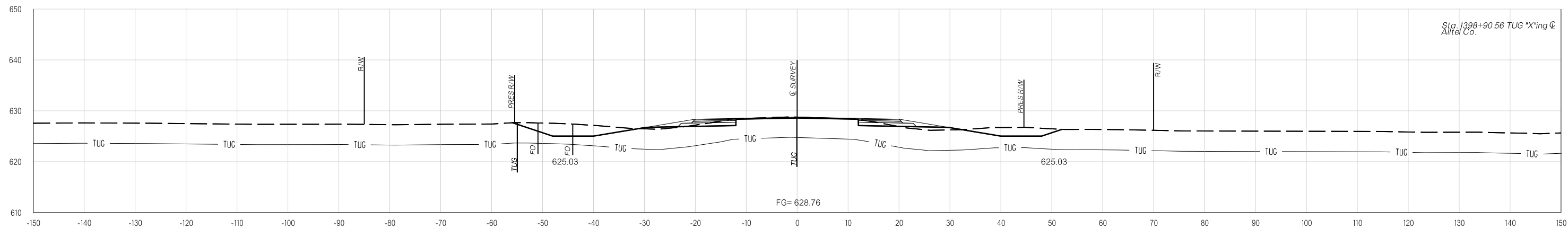


1396+49.00

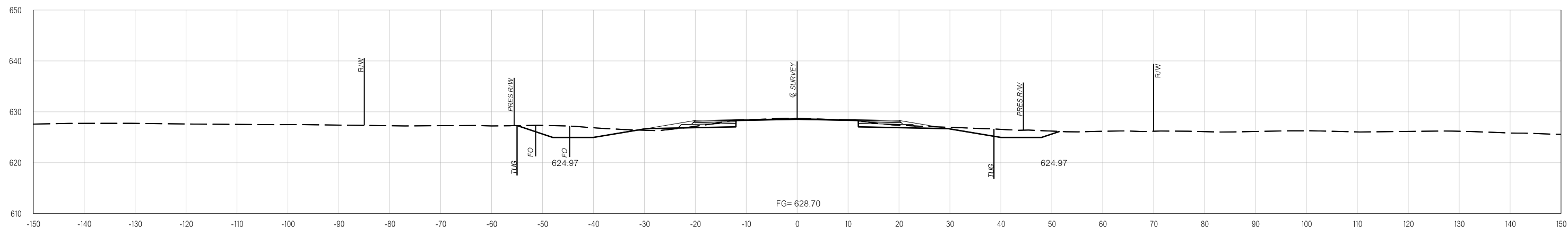
STA. 1396+49.00
CONST. 22' ASPH. DR.
W/28' x 20' CGSPA SD

p:\VAPP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn

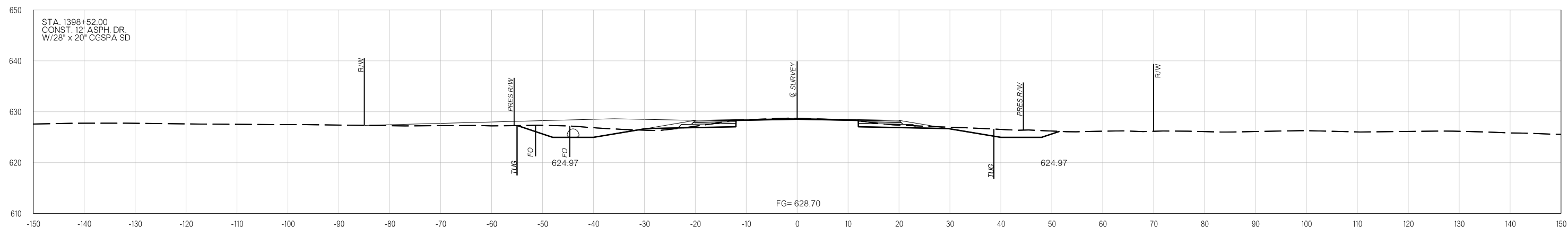
02-03-20



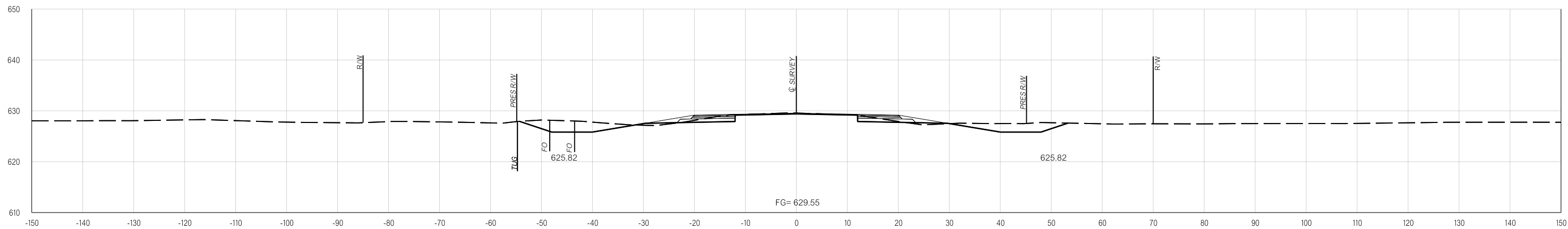
1398+90.60



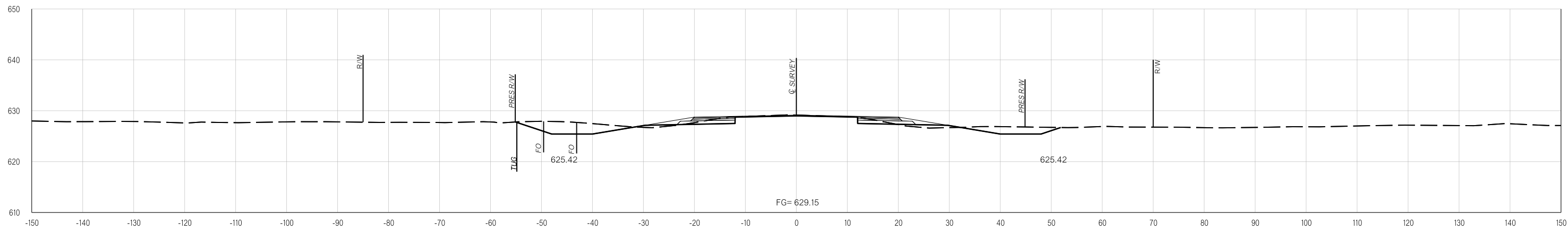
1398+53.00



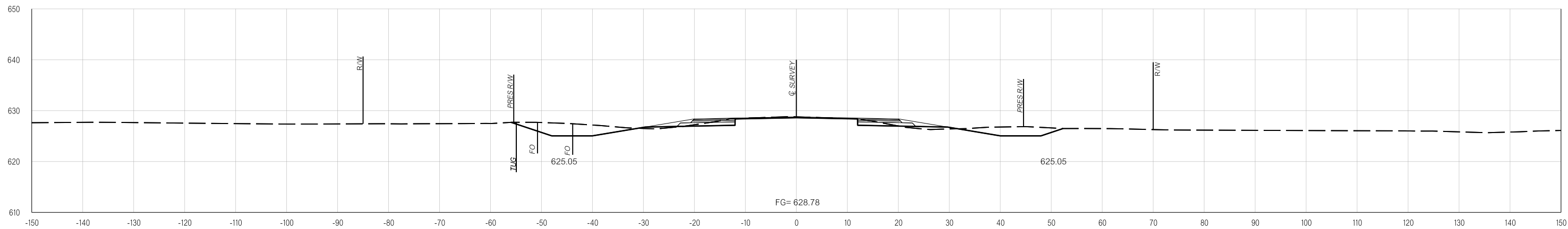
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1401+00.00



1400+00.00



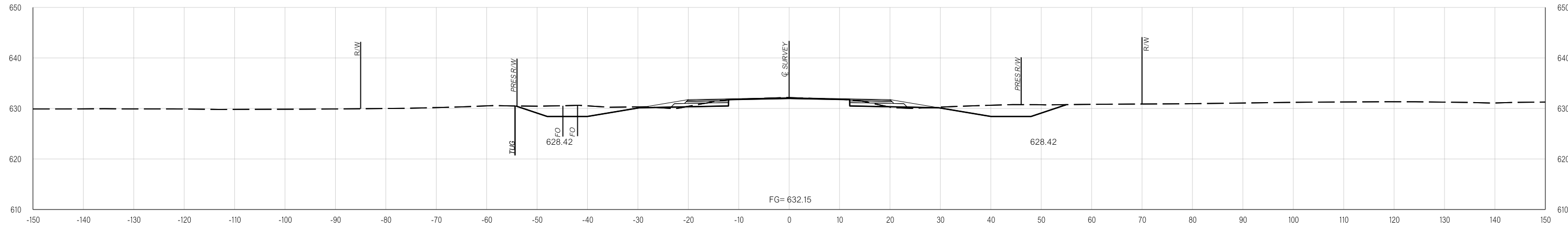
1399+00.00

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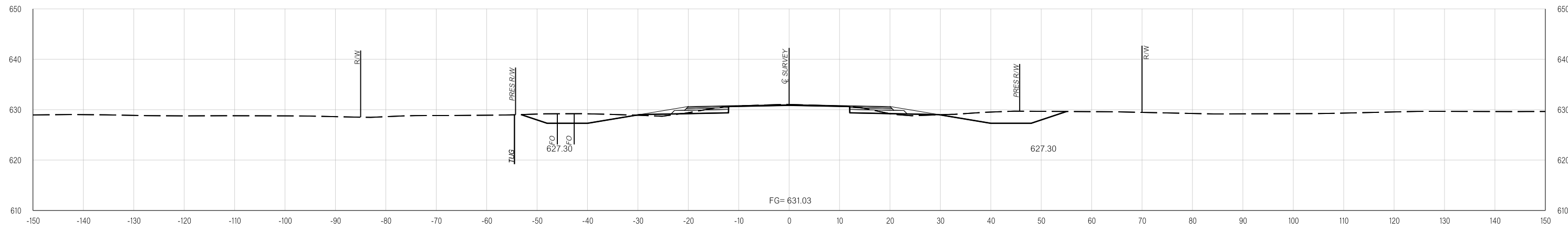
02-03-20

PROPOSED
R/W

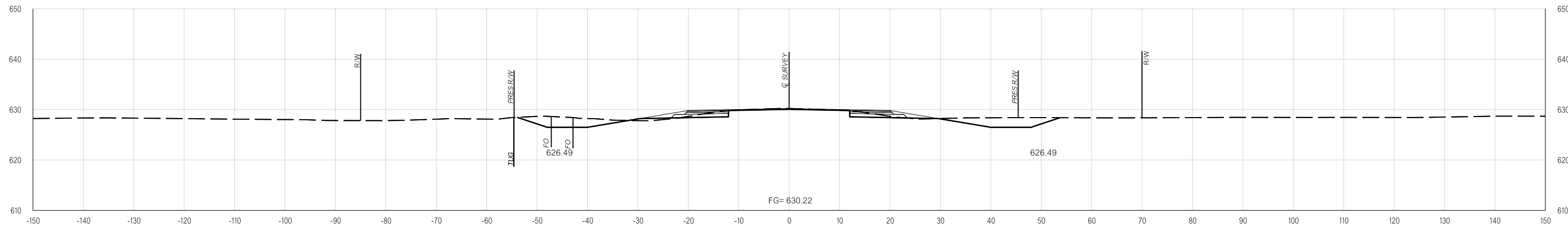
02-03-20



1404+00.00



1403+00.00

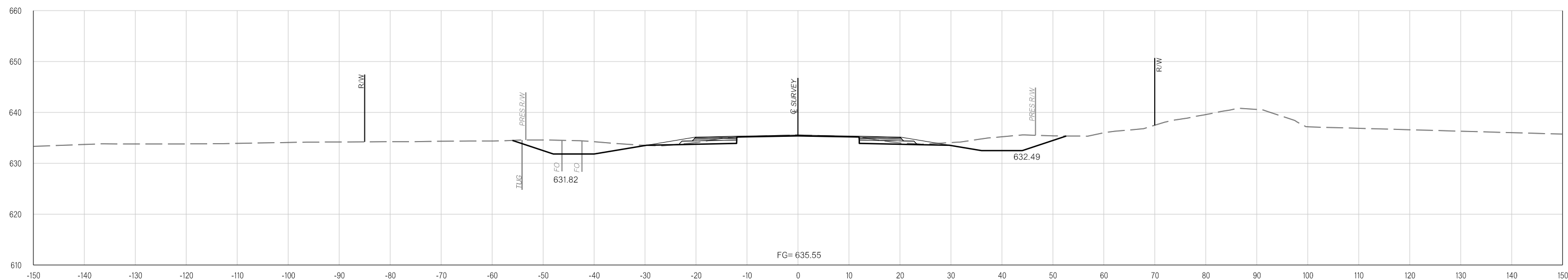


1402+00.00

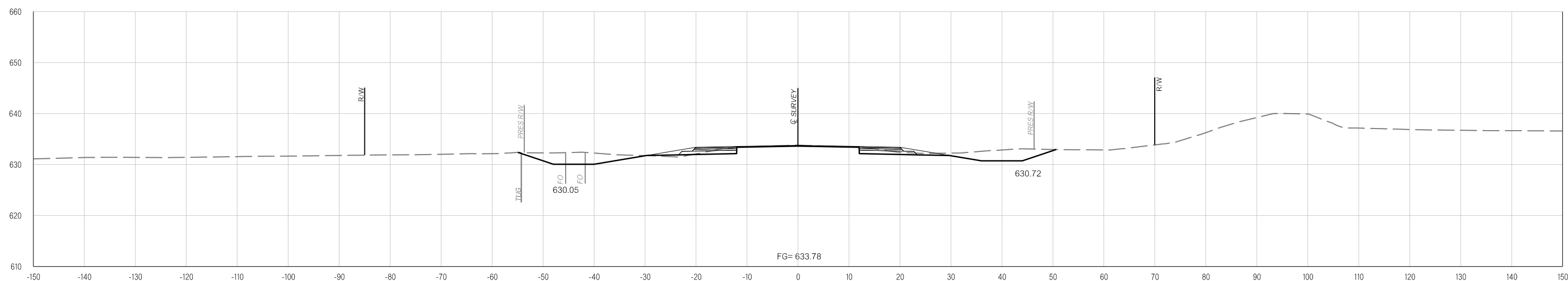
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02-03-20

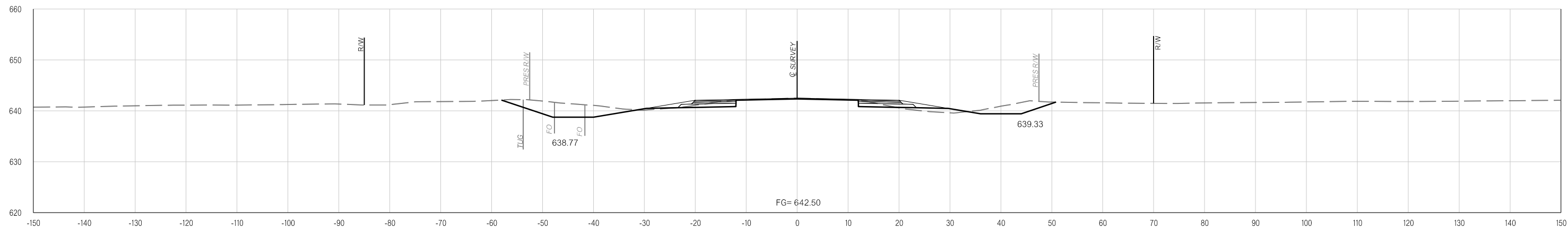
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02-24-21



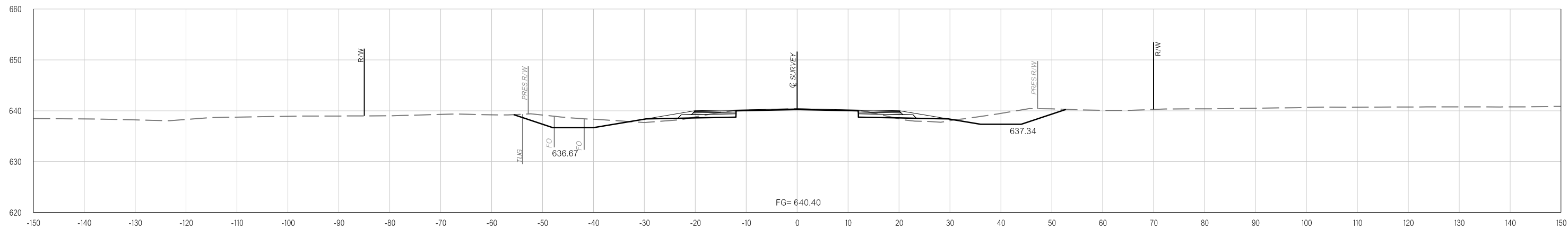
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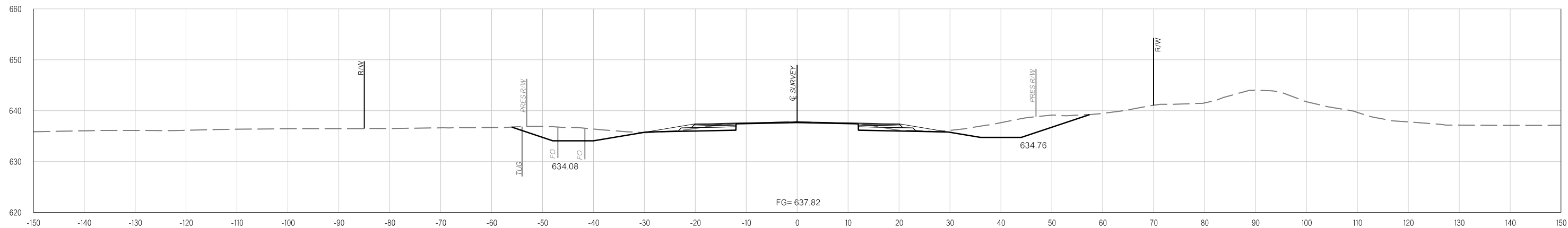
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1409+00.00



1408+00.00

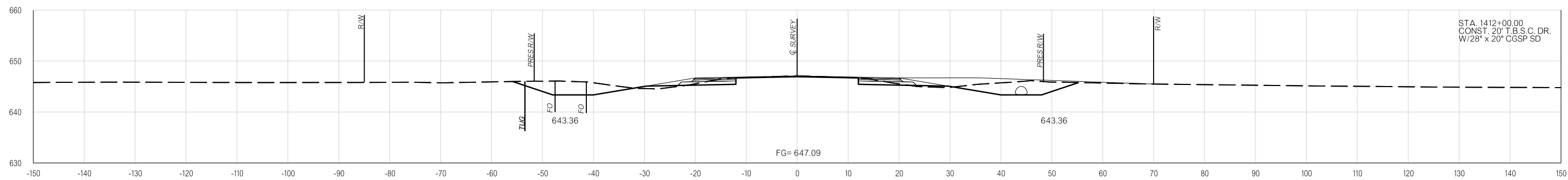


1407+00.00

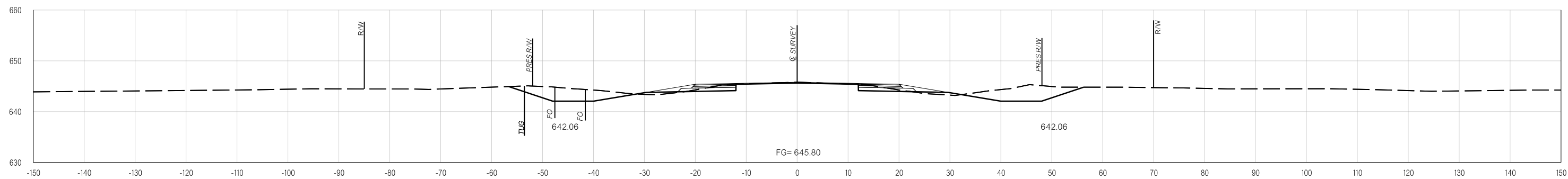
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02-24-21

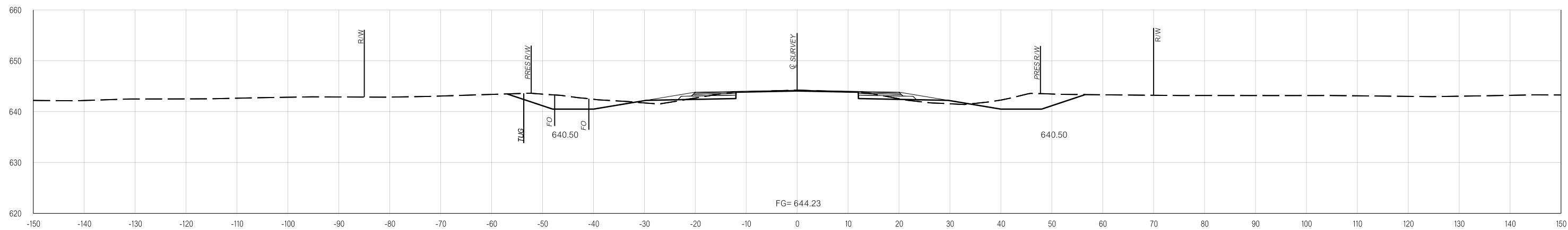
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03-30-21



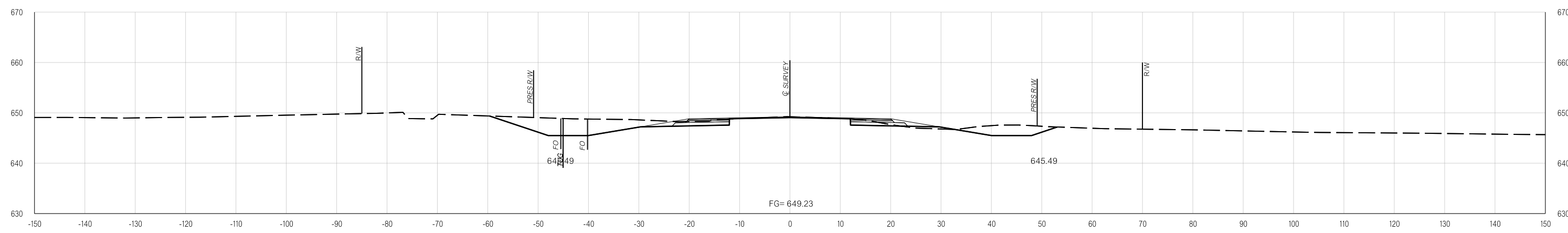
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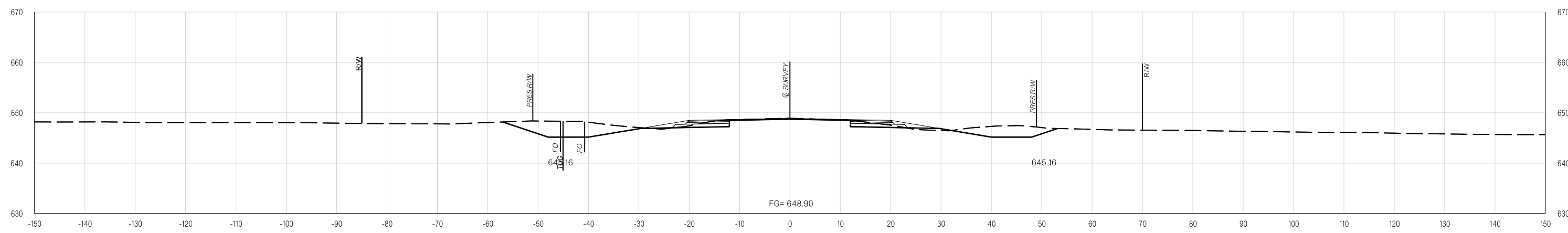
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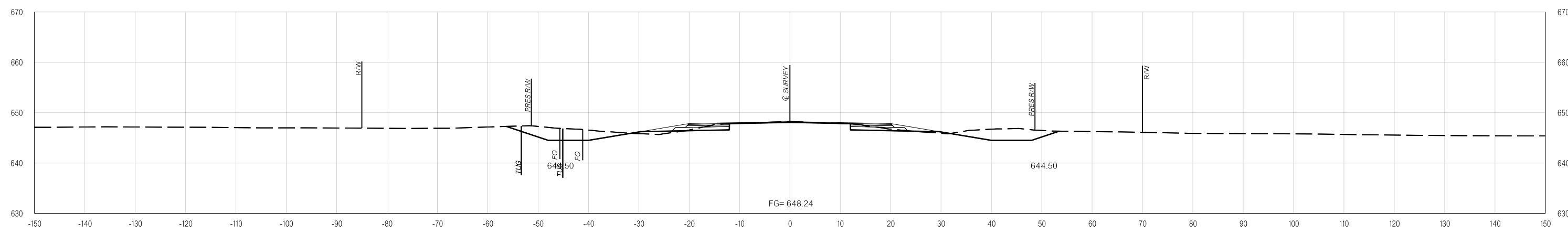
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1414+50.86



1414+00.00

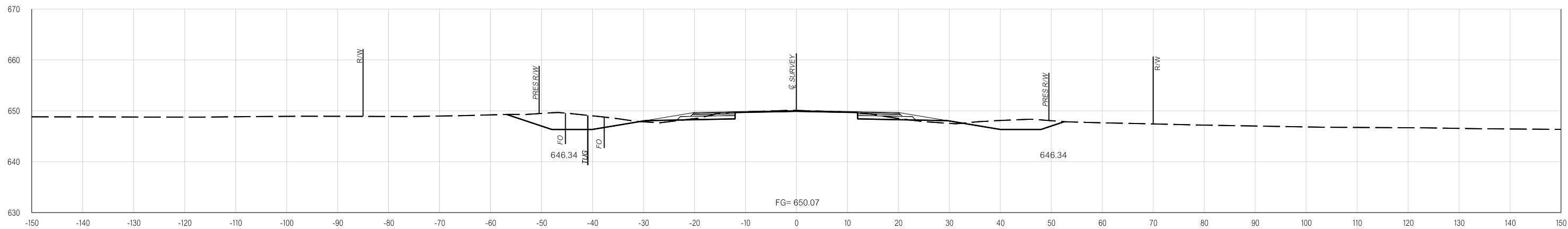


1413+00.00

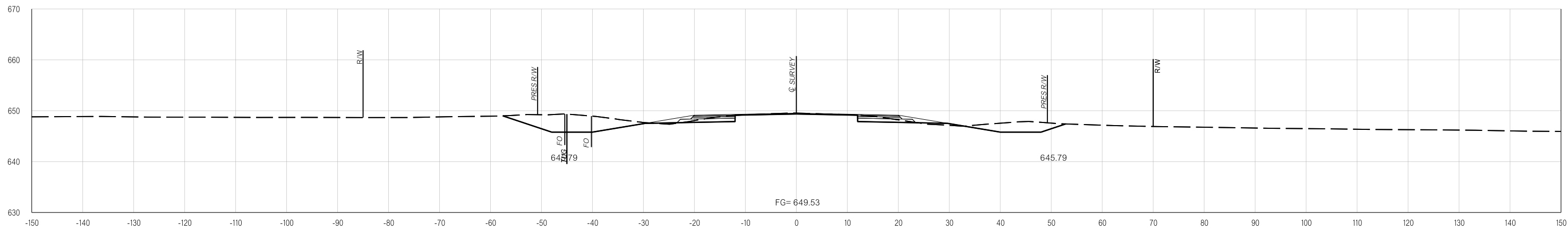
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 02-03-20

PROPOSED R/W

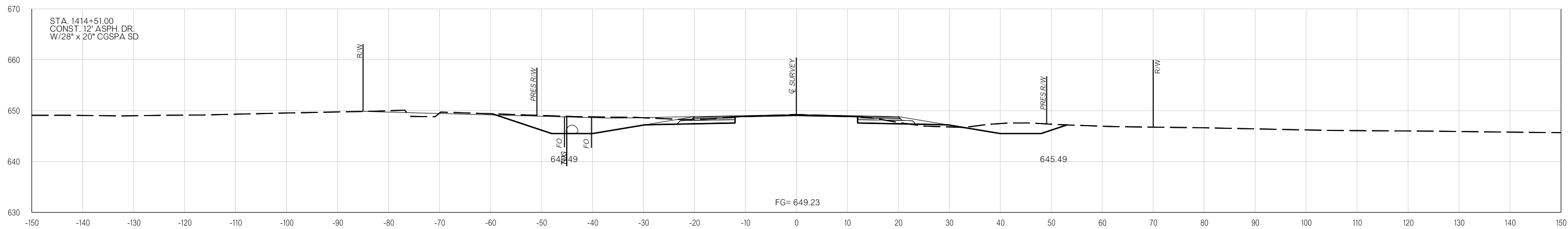
02-03-20



1416+00.00



1415+00.00

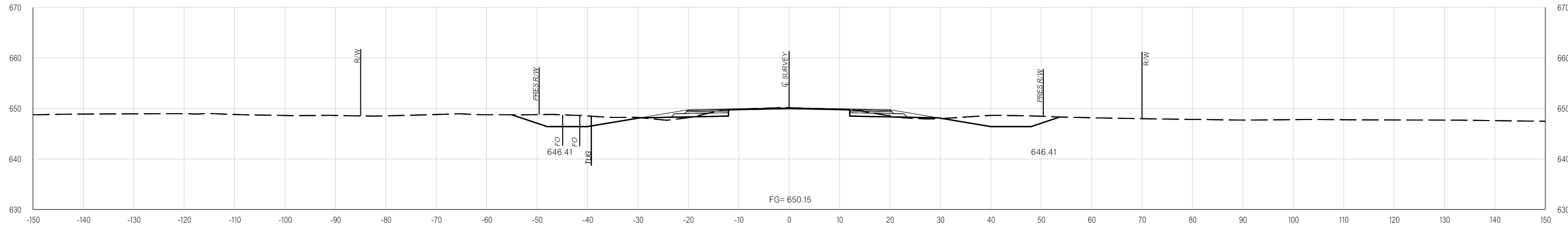


1414+51.00

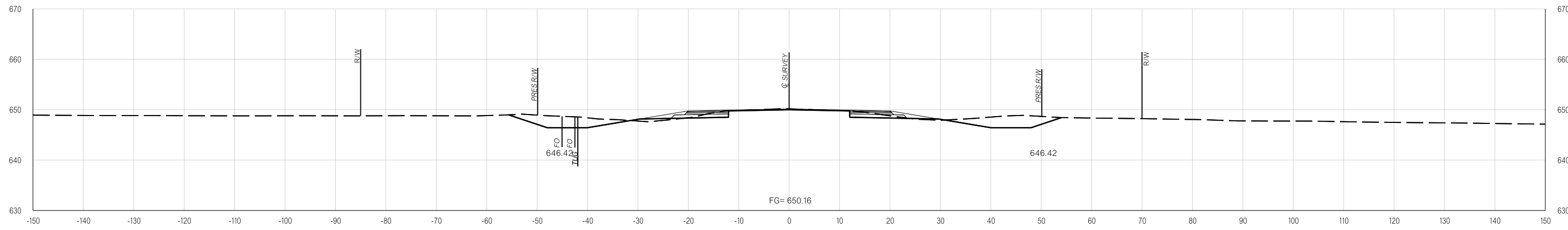
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02-03-20

PROPOSED R/W

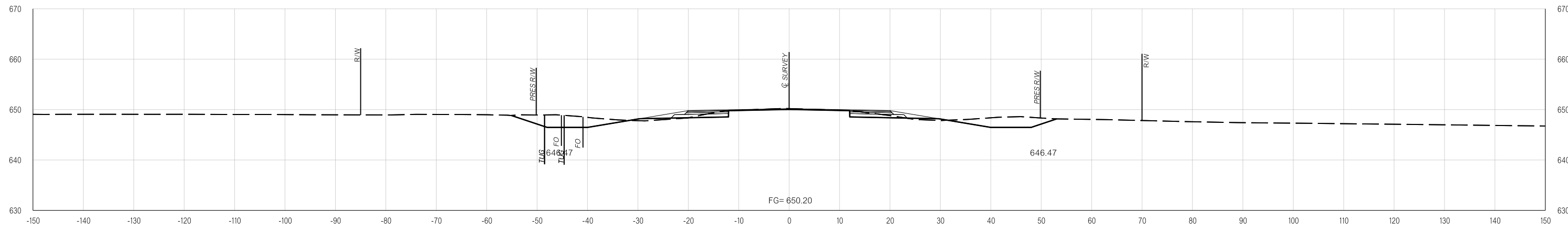
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1419+00.00



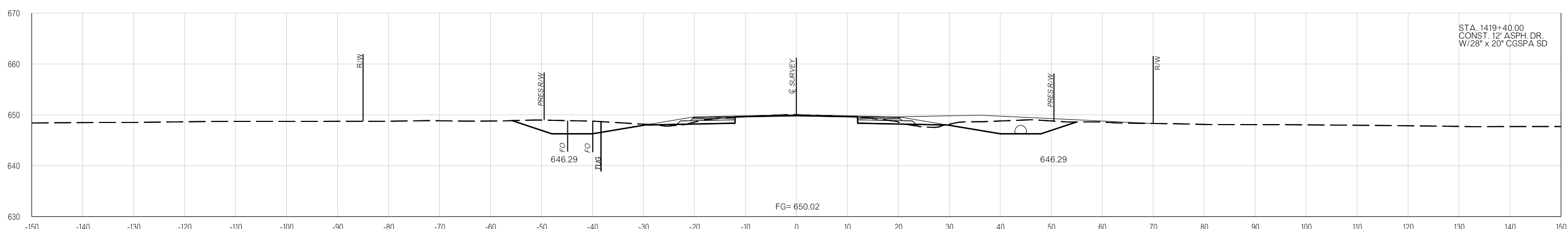
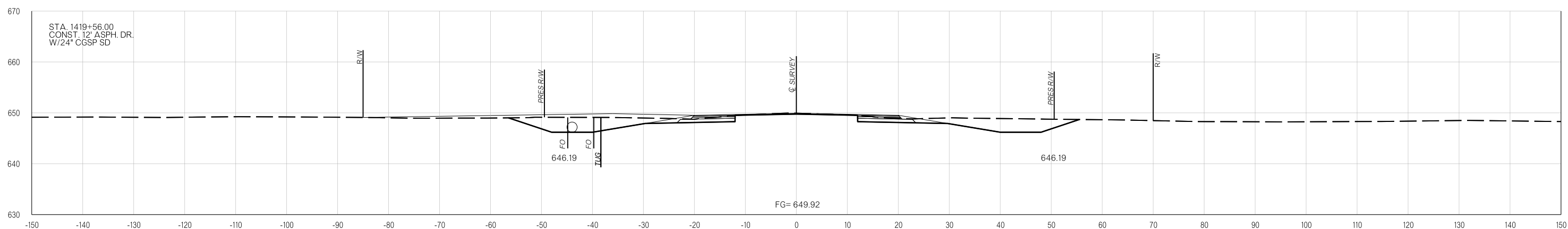
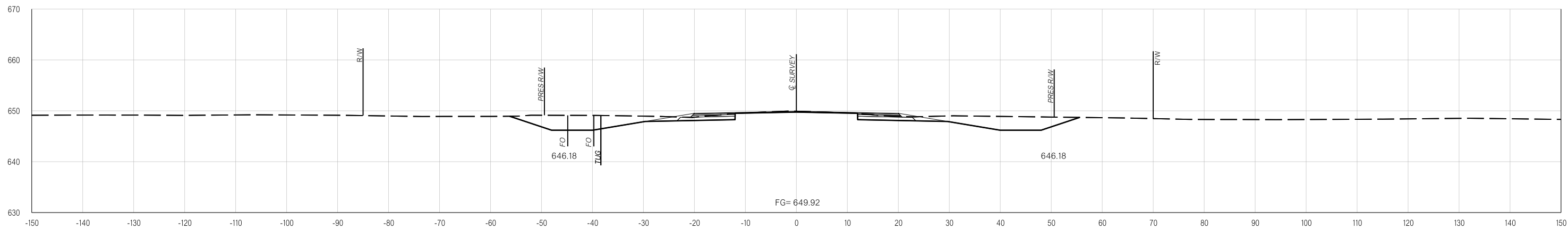
1418+00.00



1417+00.00

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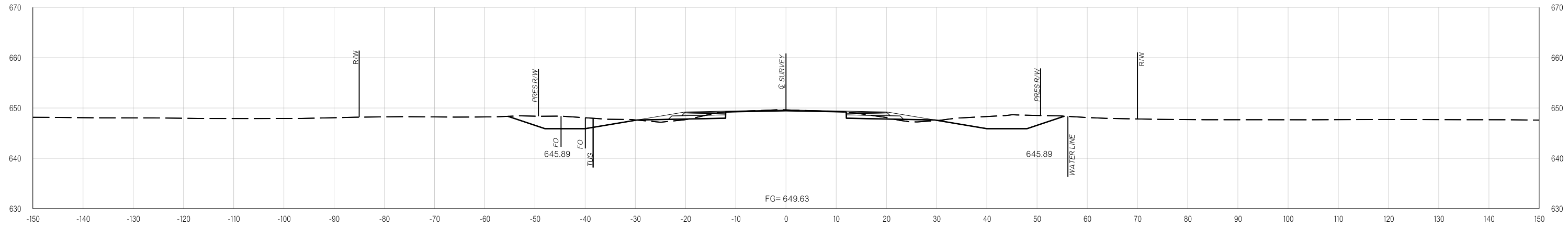
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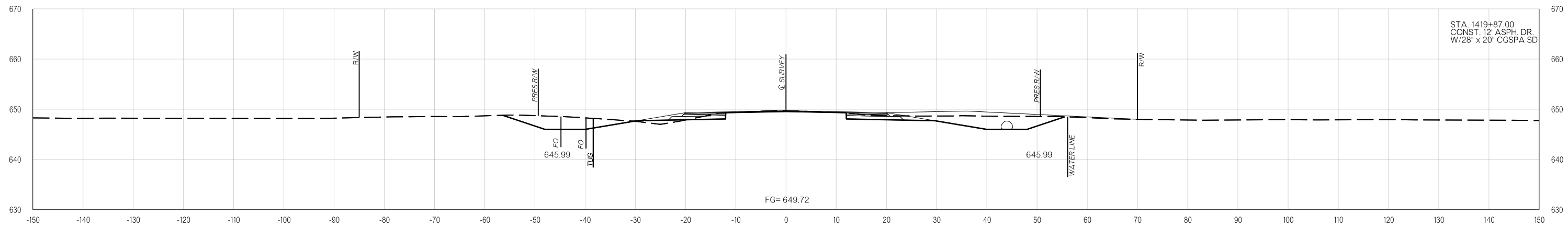
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PROPOSED R/W

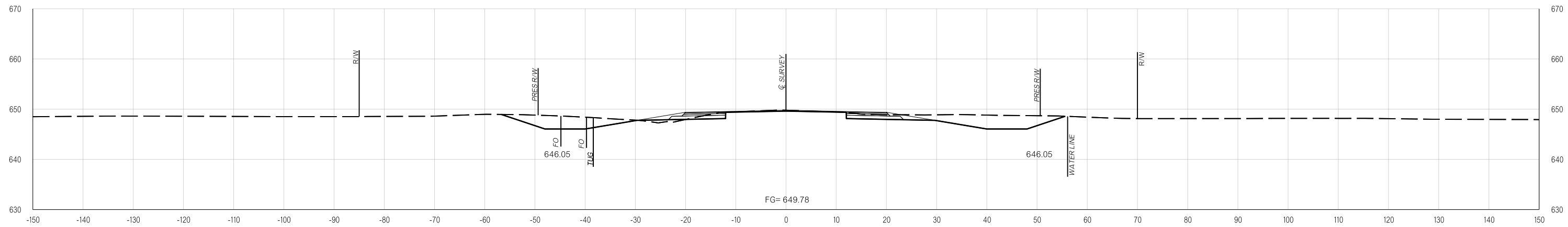
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1420+00.00



1419+87.00



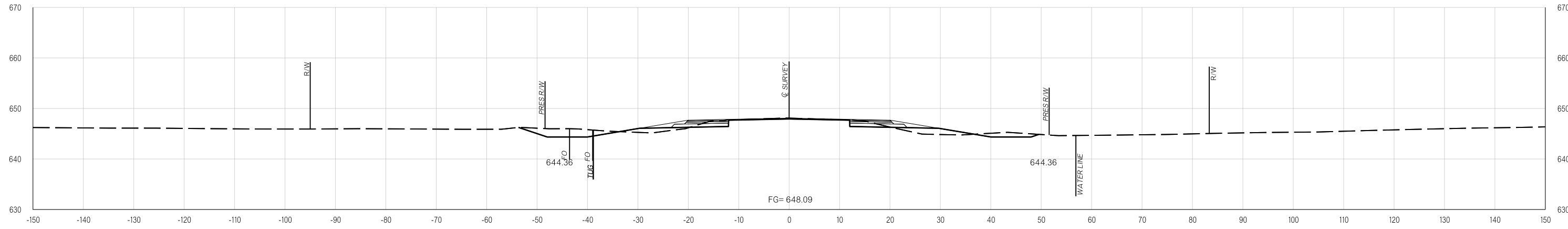
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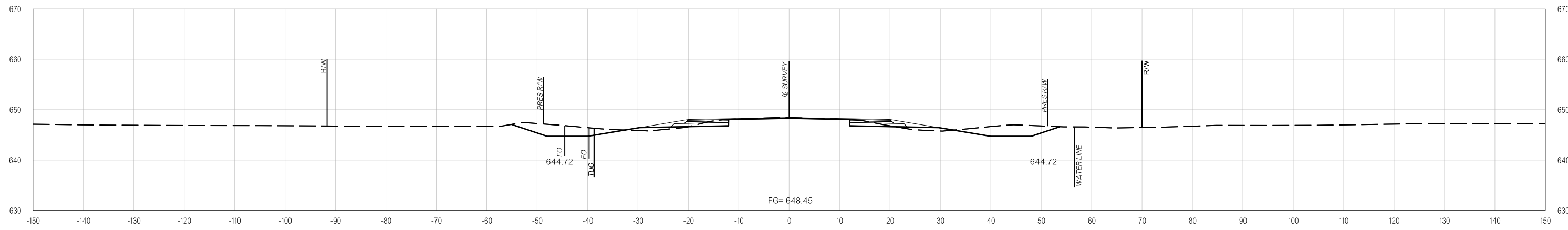
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PROPOSED R/W

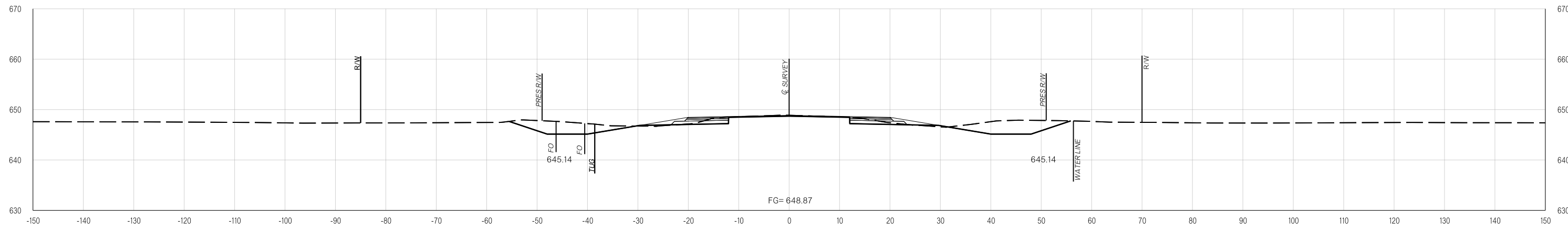
02-03-20



1423+00.00



1422+00.00



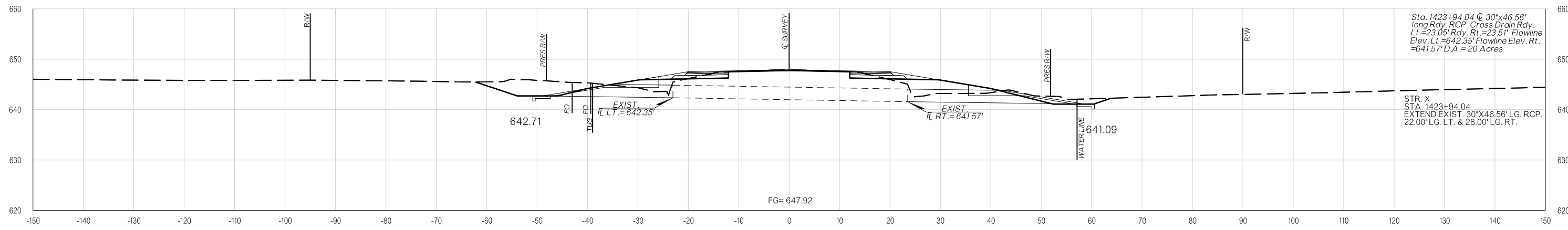
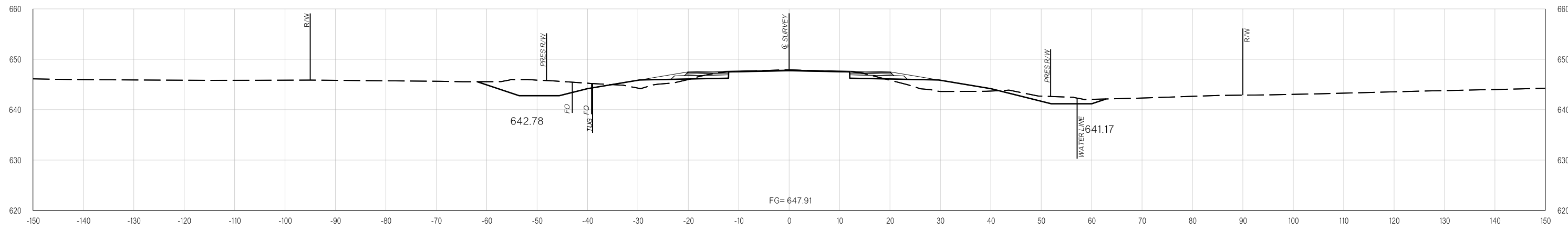
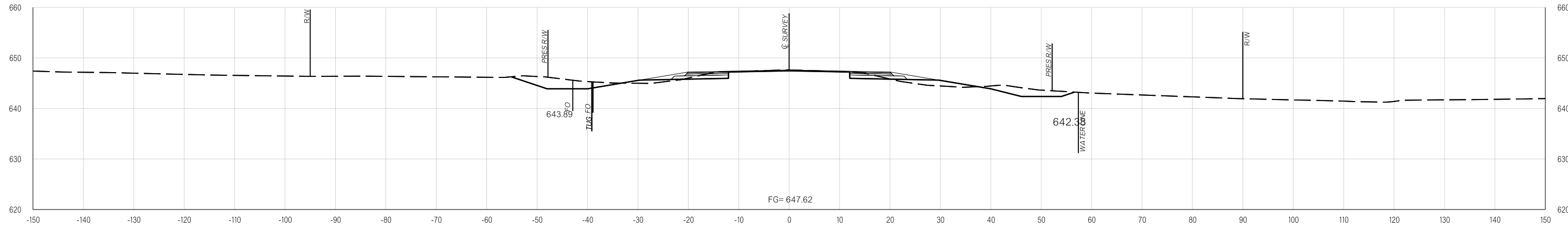
1421+00.00

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02-03-20

PROPOSED R/W

02-03-20



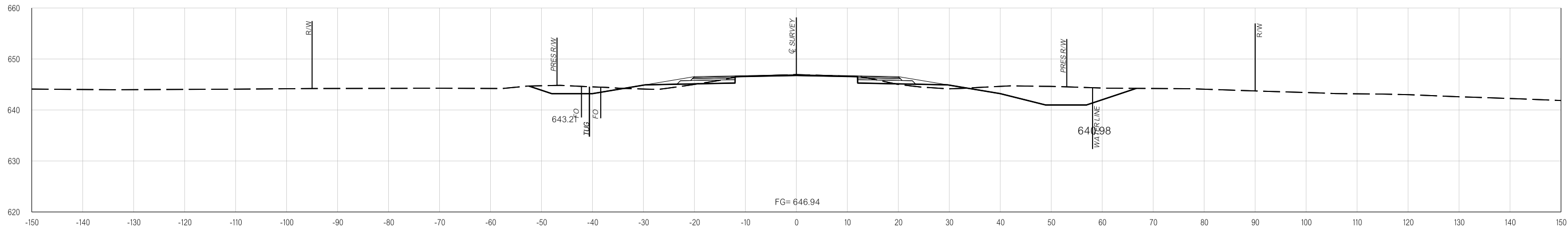
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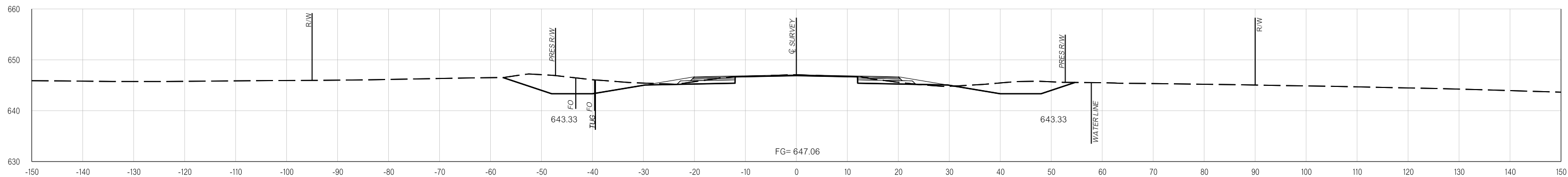
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02-03-20

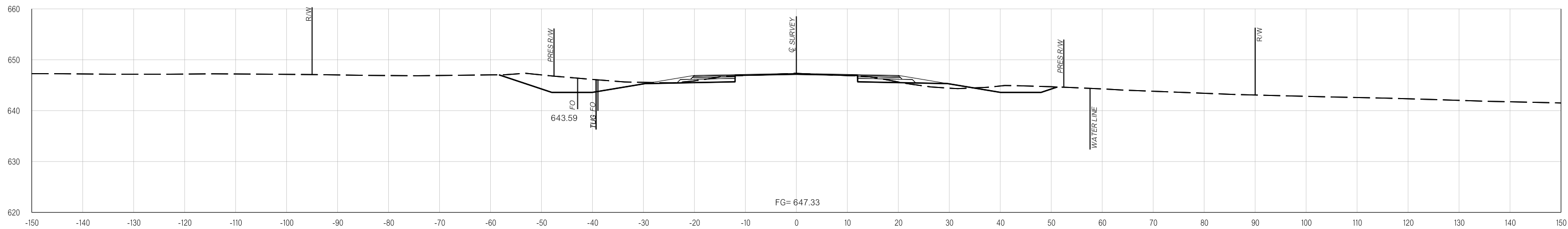
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02-03-20



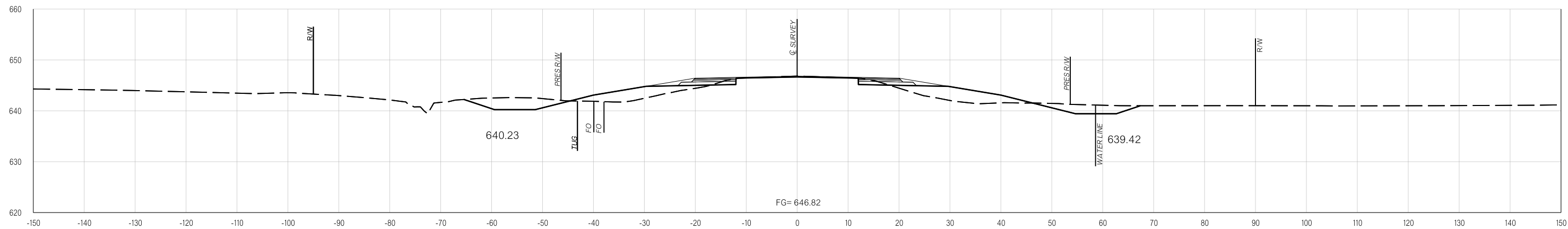
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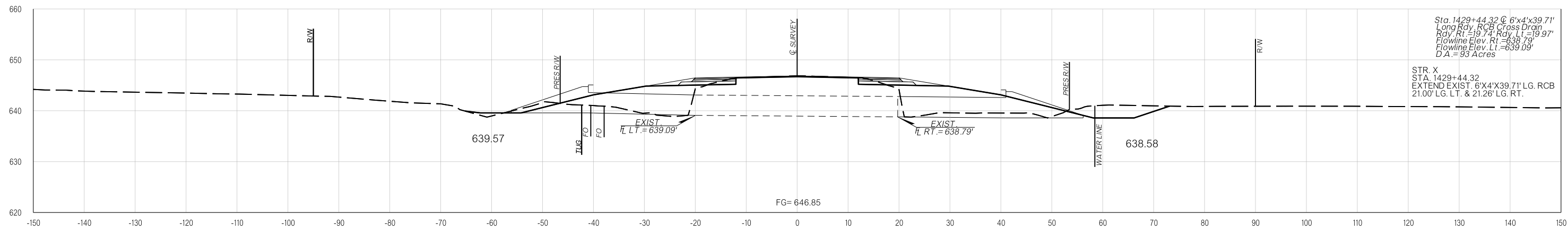
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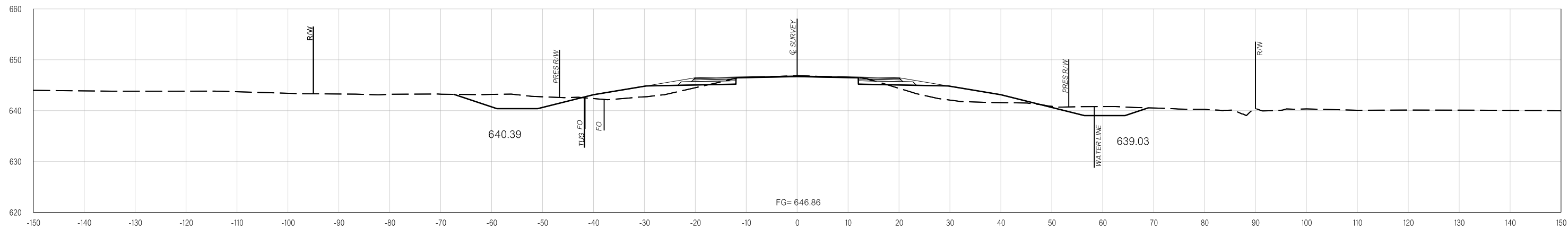
1426+00.00



1430+00.00



1429+44.25



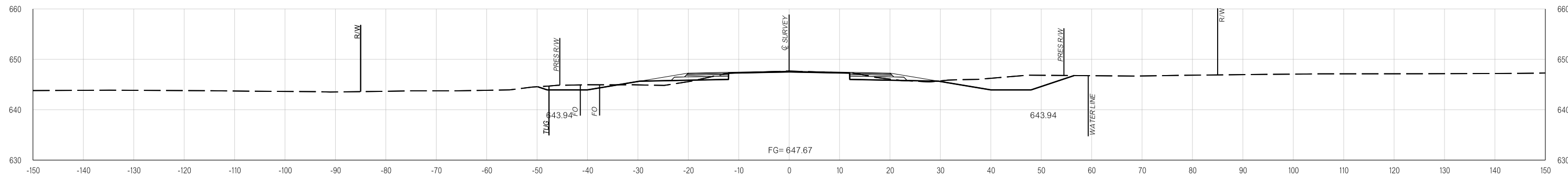
1429+00.00

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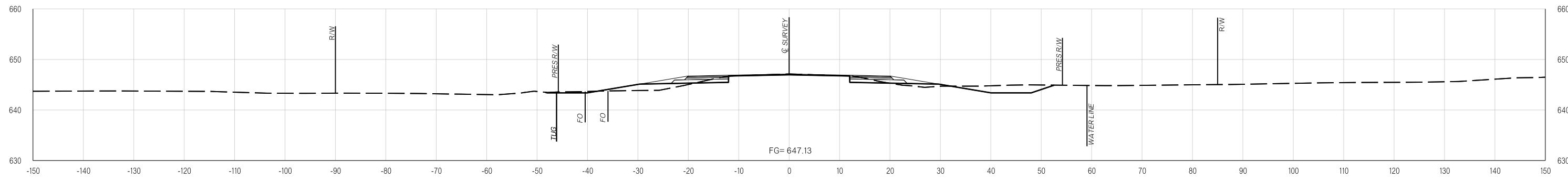
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PROPOSED R/W

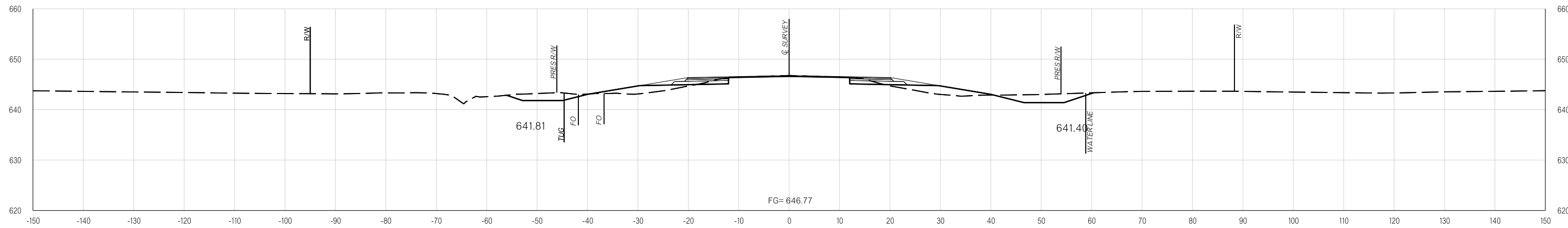
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1433+00.00



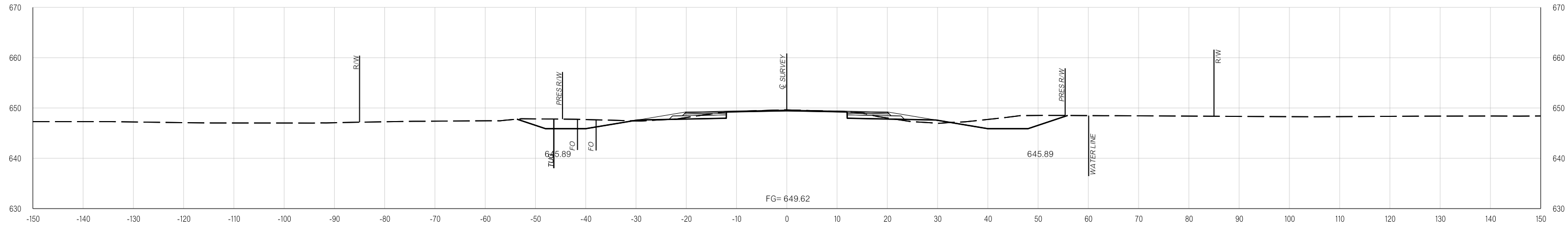
1432+00.00



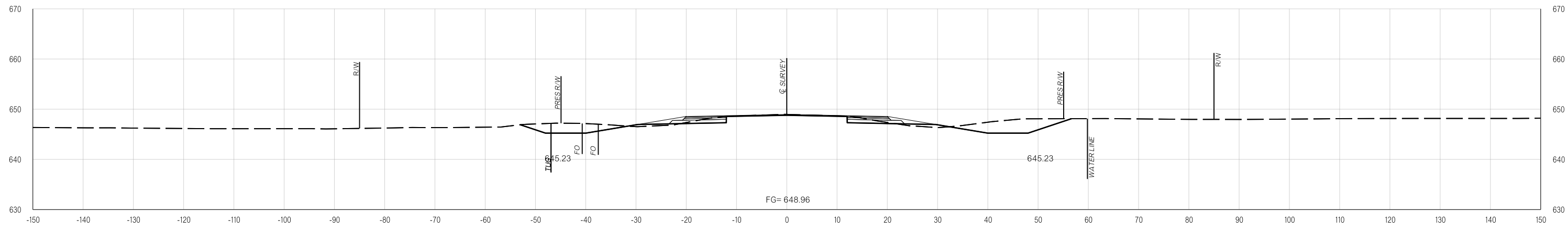
1431+00.00

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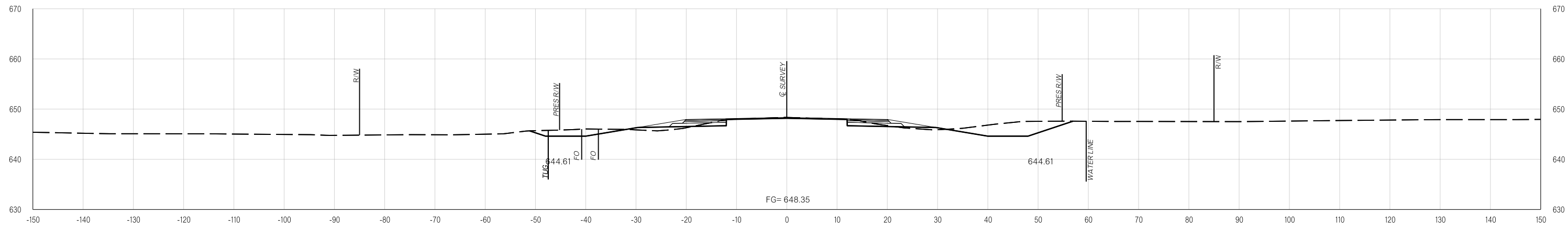
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1436+00.00



1435+00.00

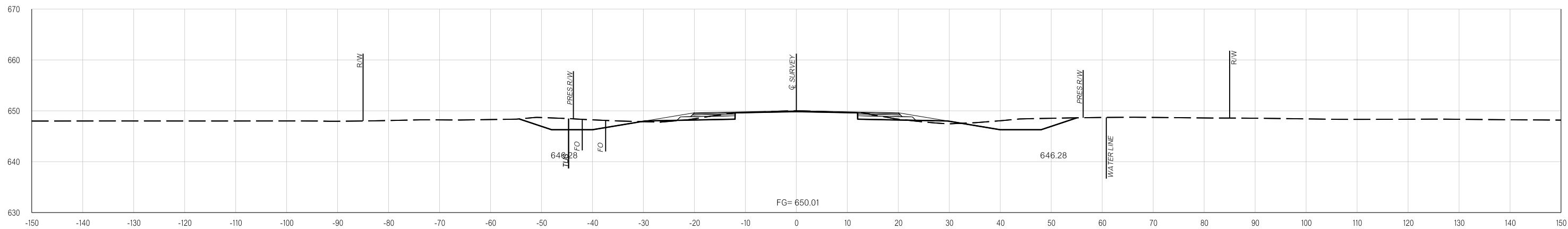


1434+00.00

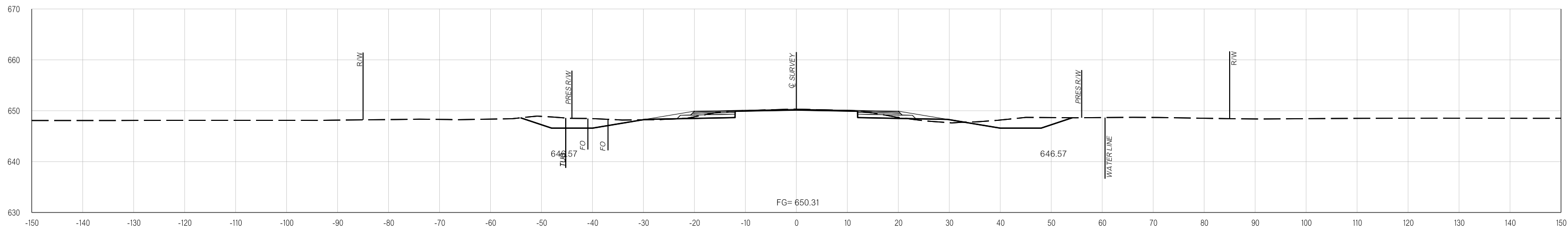
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PROPOSED R/W

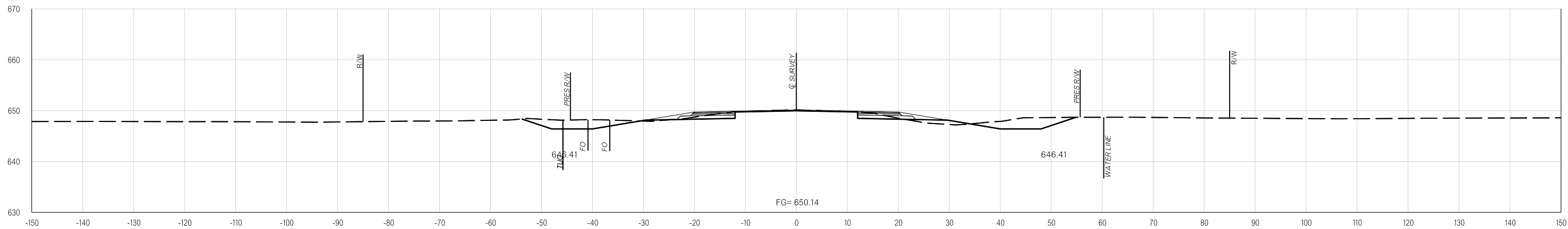
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1439+00.00

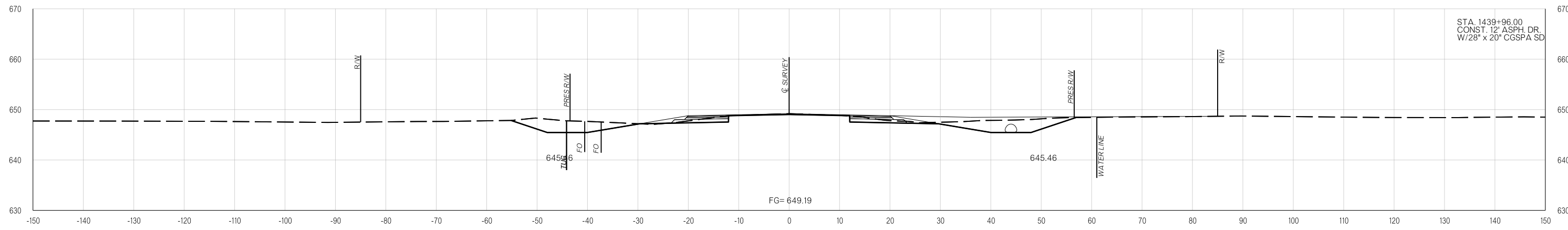
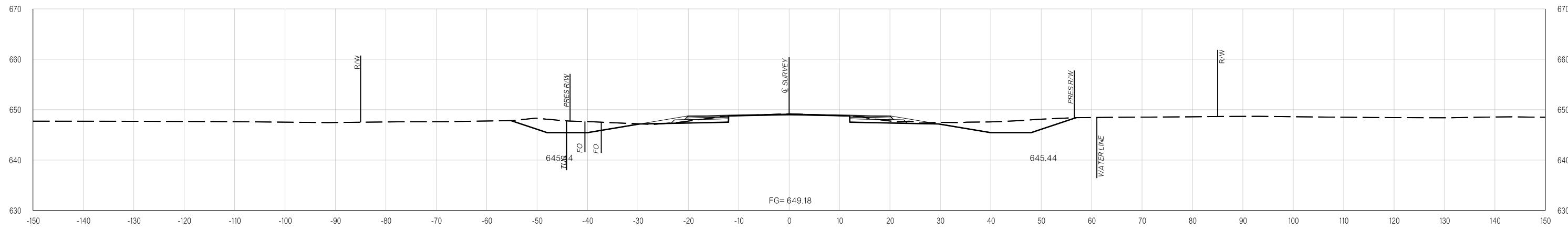
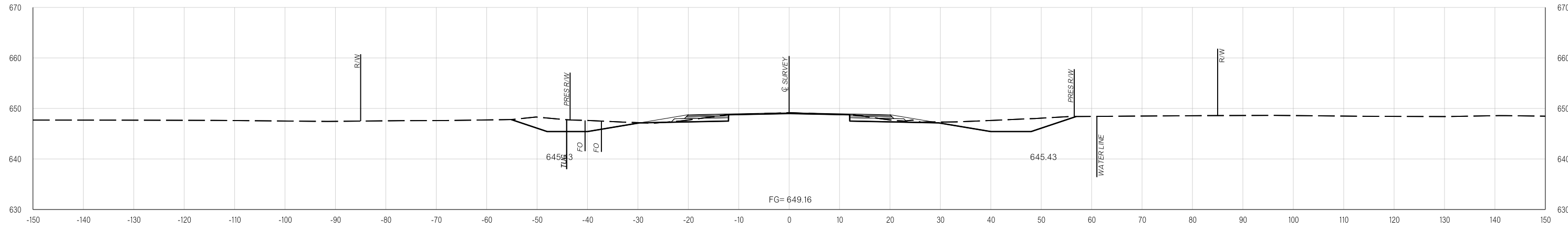


1438+00.00



1437+00.00

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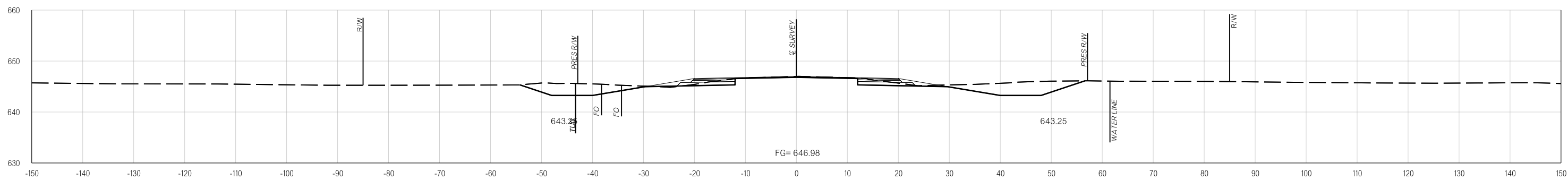


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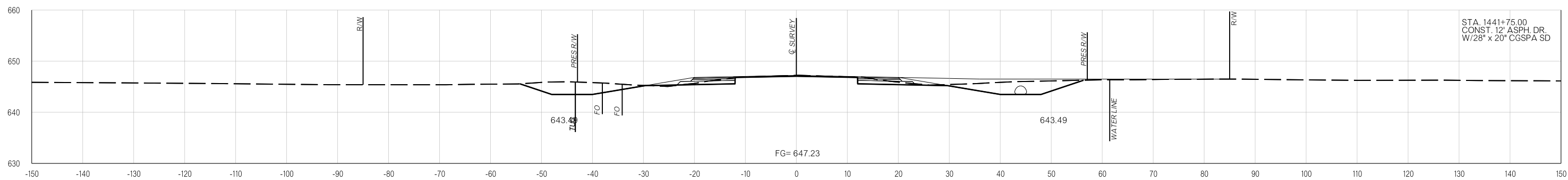
PROPOSED R/W

02-03-20

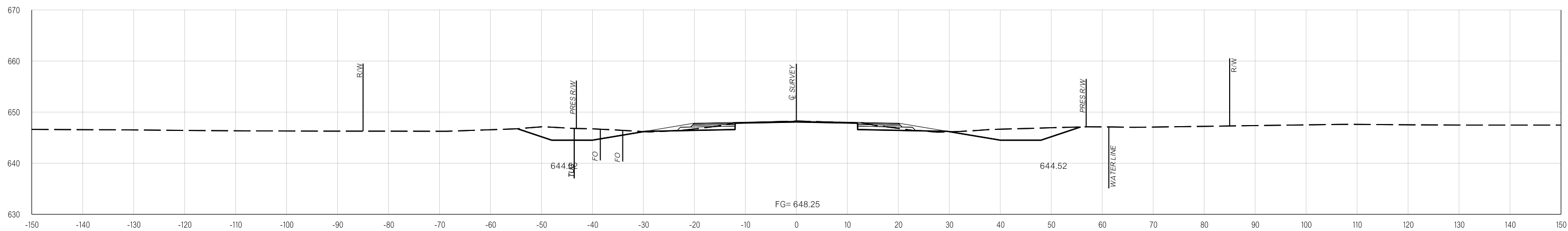
02-03-20 pw:\APP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1441+93.00



1441+75.00

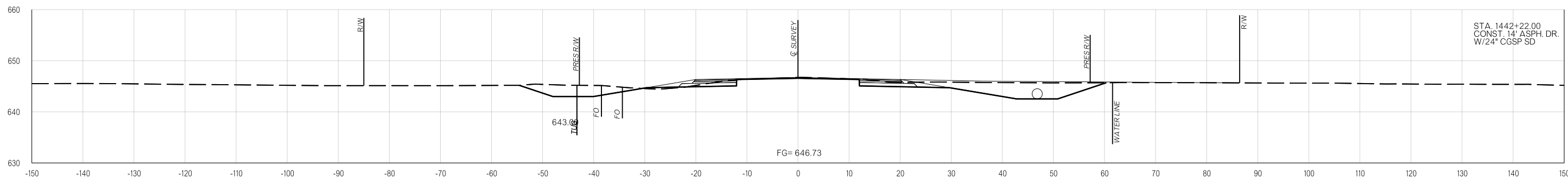


1441+00.00

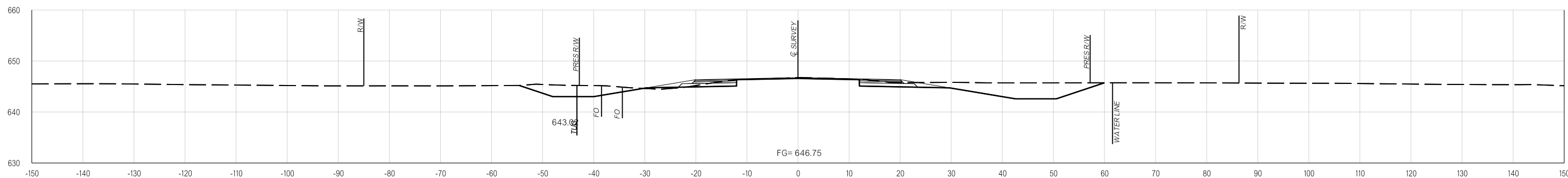
PROPOSED R/W

02-03-20

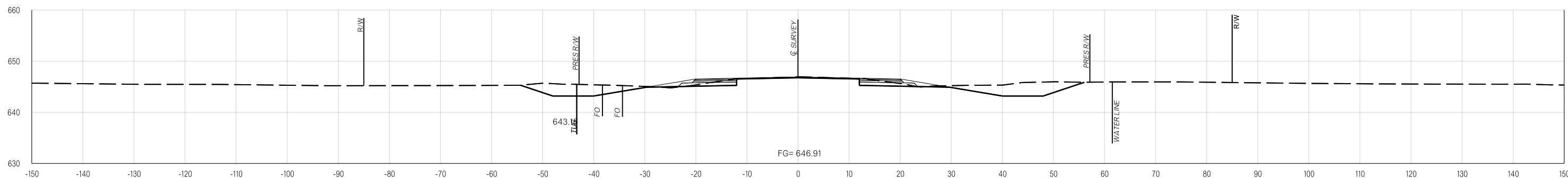
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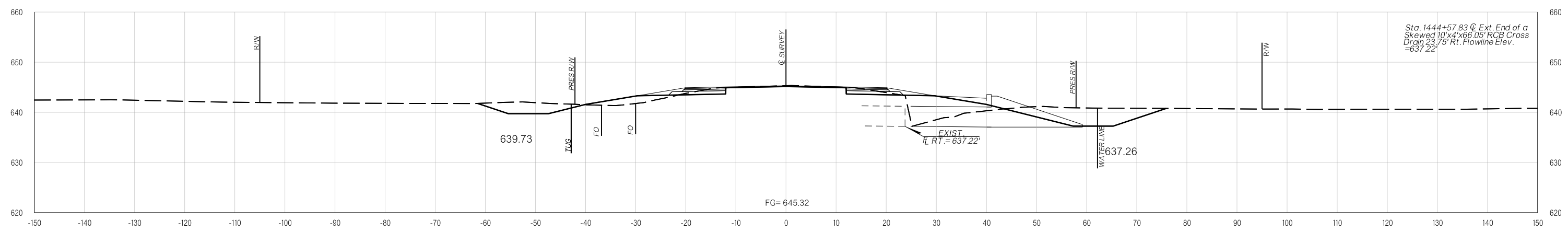
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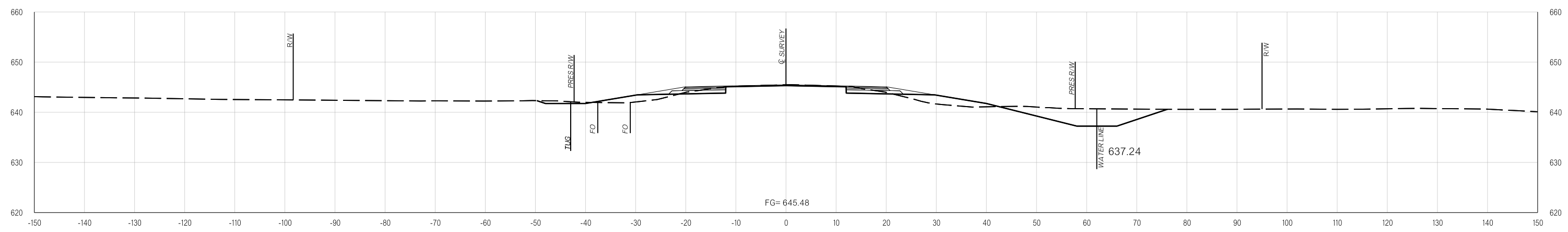
1442+19.97



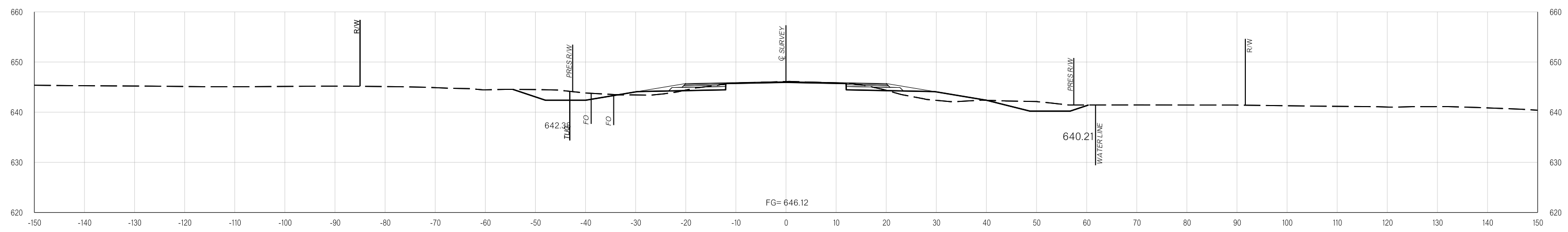
1442+00.00



1444+57.41



1444+00.00

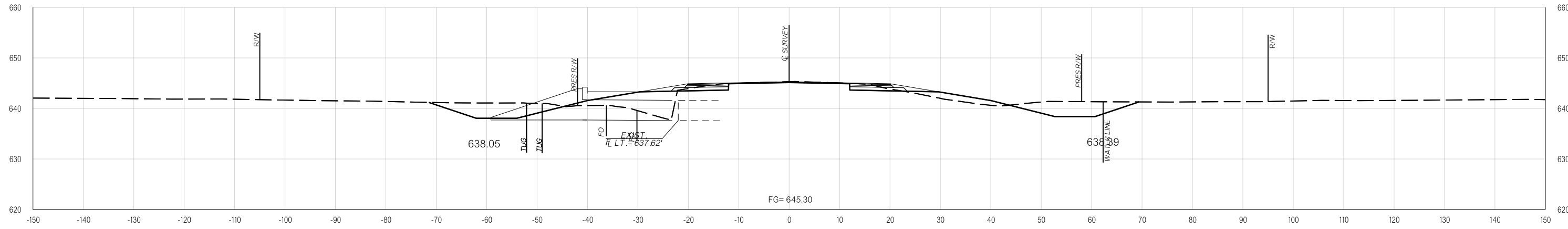


1443+00.00

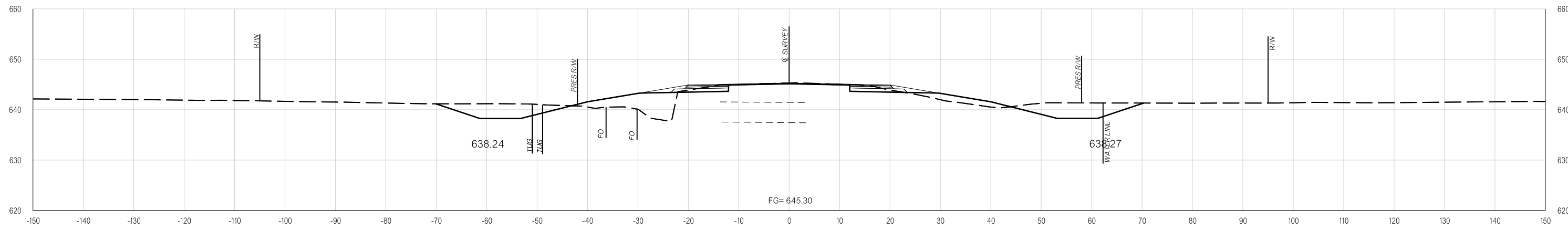
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02-03-20

PROPOSED R/W

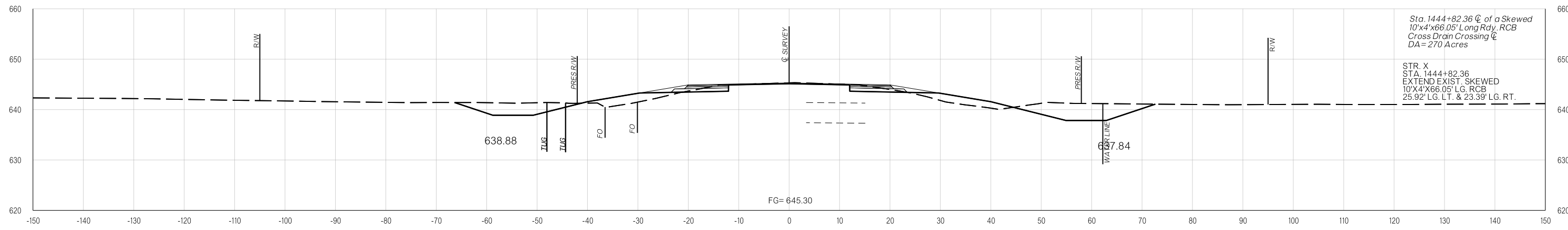
02-03-20



1445+05.26



1445+00.00



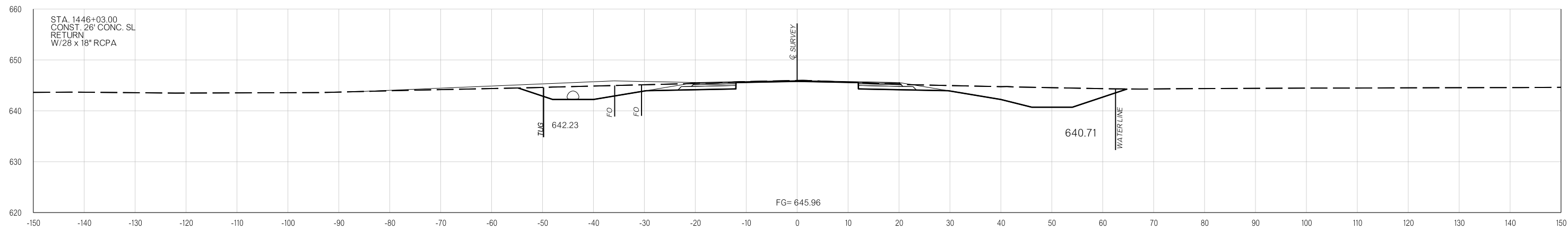
1444+81.87

Sta. 1444+82.36 \bar{C} of a Skewed
 10'x4'x66.05' Long Rdy. RCB
 Cross Drain Crossing \bar{C}
 DA= 270 Acres

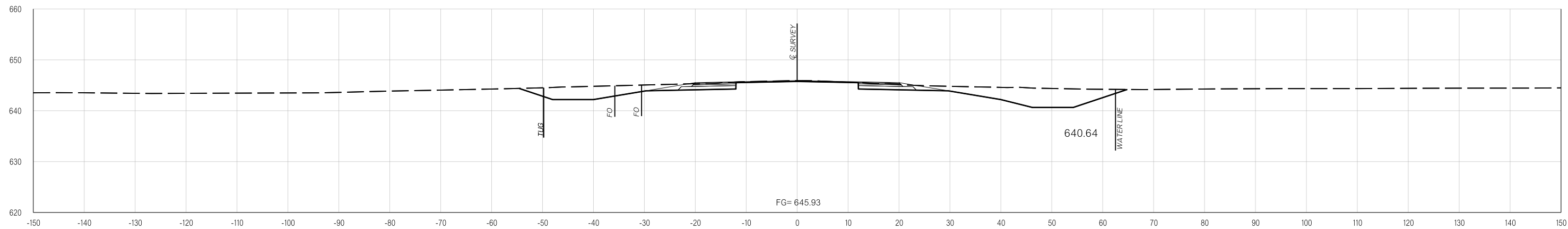
STR. X
 STA. 1444+82.36
 EXTEND EXIST. SKEWED
 10'X4'X66.05' LG. RCB
 25.92' LG. LT. & 23.39' LG. RT.

pw:\APP-PWS05-345_agency_OK_locat:ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn

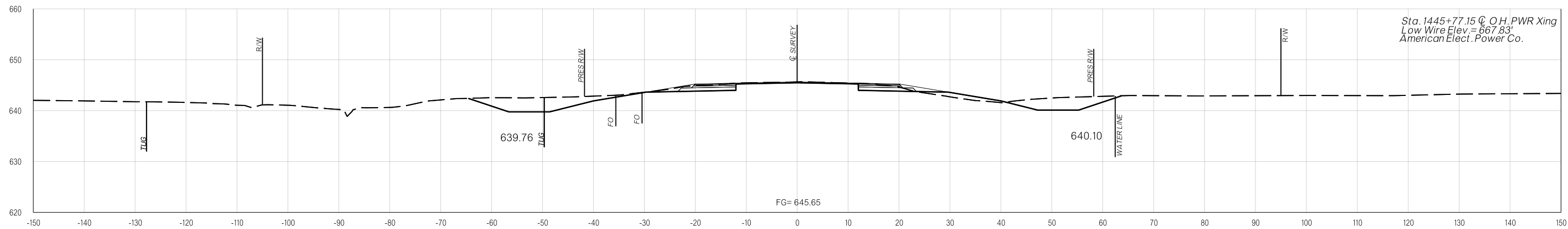
02-03-20



1446+03.00



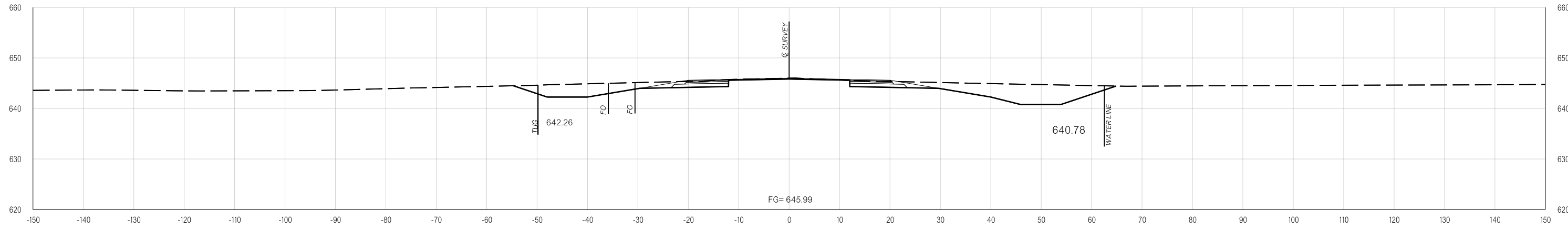
1446+00.00



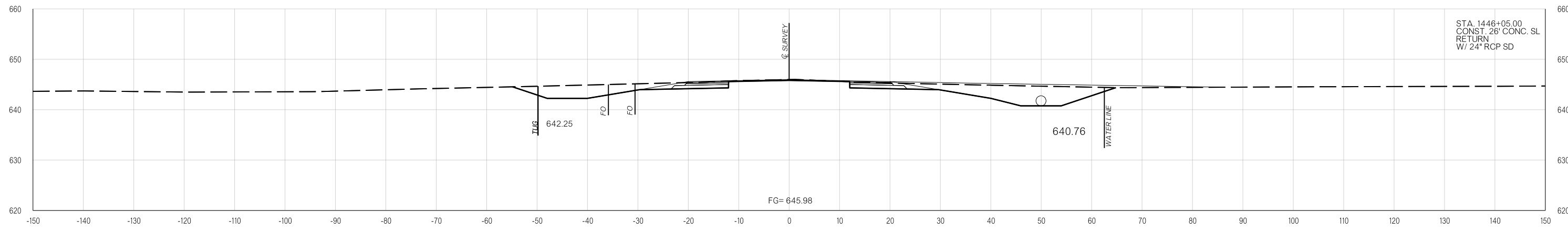
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PROPOSED
R/W

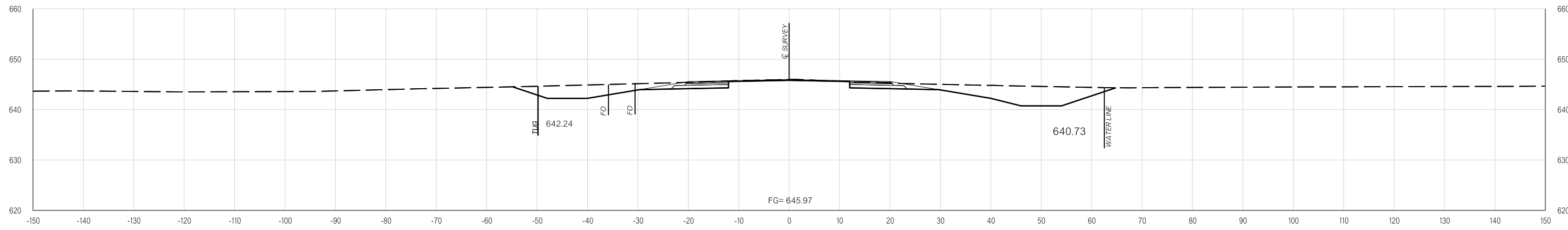
02-03-20



1446+06.11



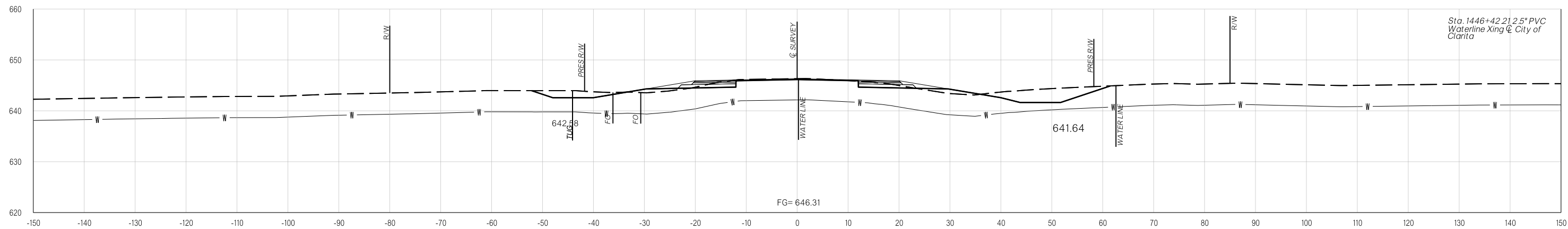
1446+05.00



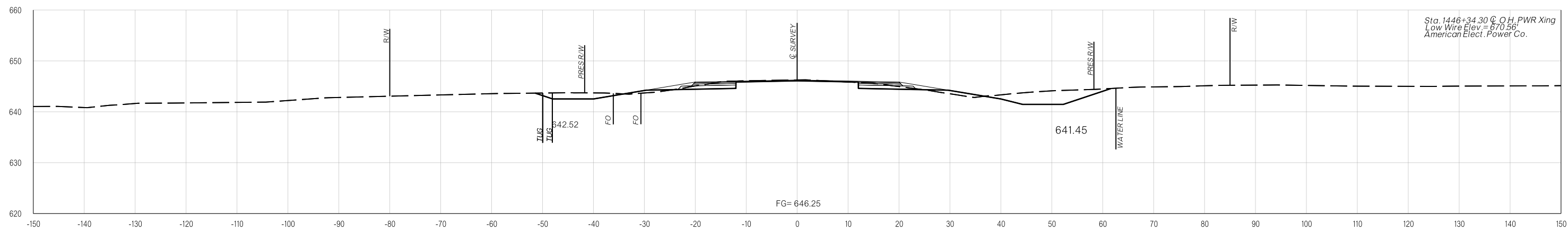
1446+03.92

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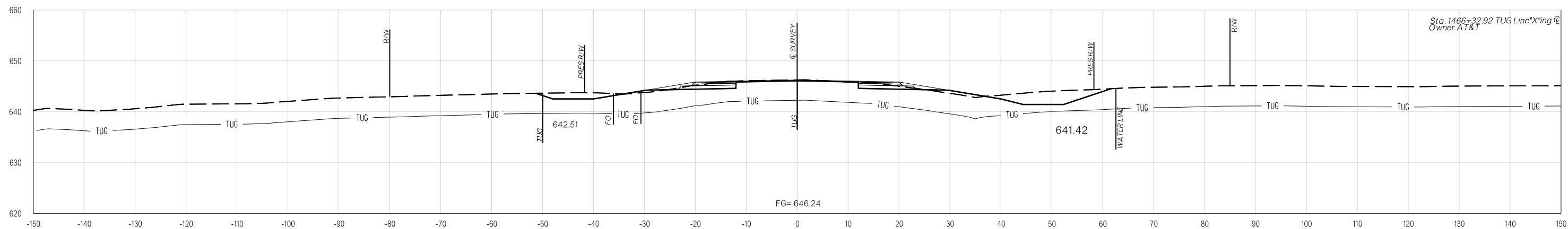
02-03-20



1446+42.20



1446+34.30



1446+32.95

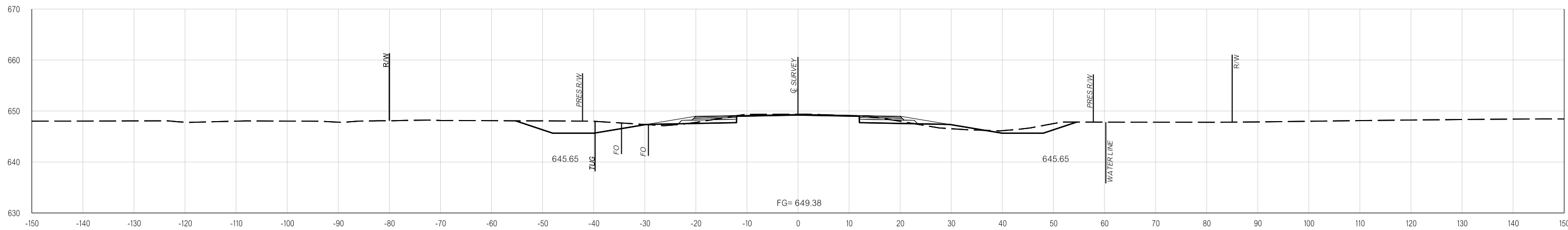
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02-03-20

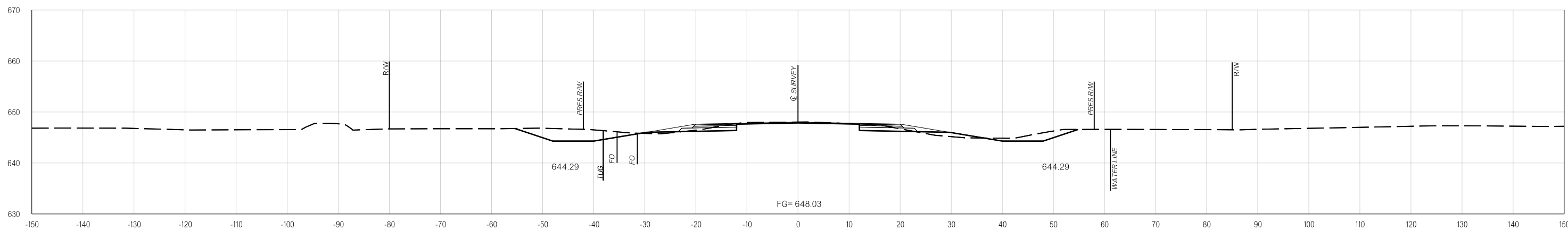
PROPOSED R/W

02-03-20

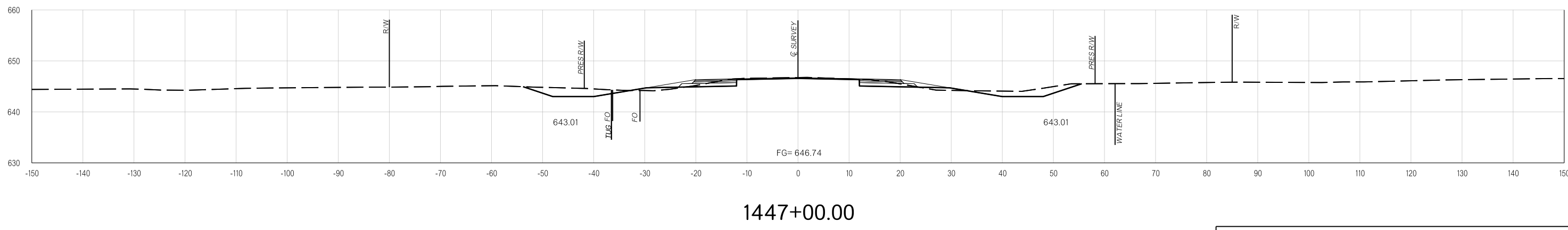
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1449+00.00



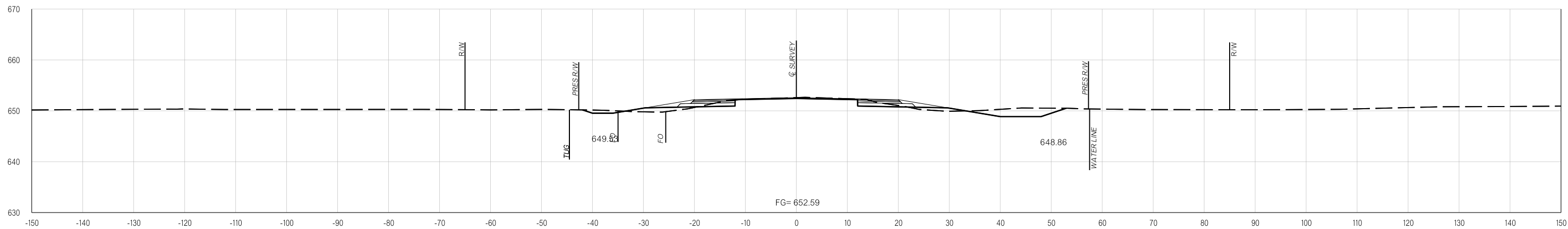
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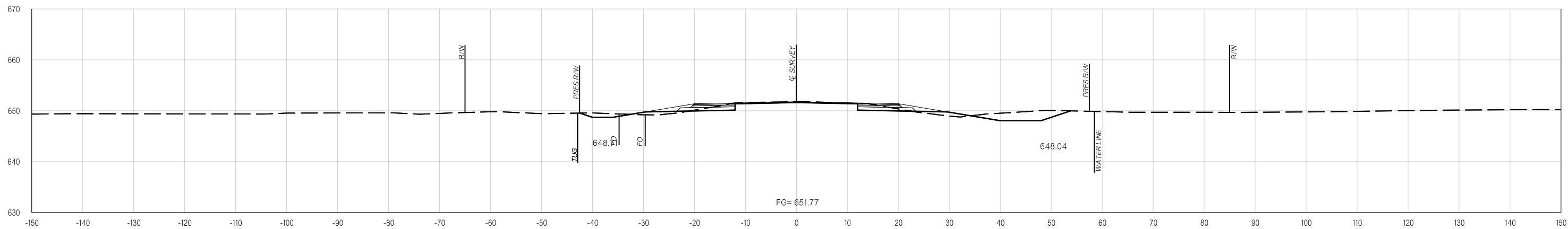
1447+00.00

PROPOSED R/W

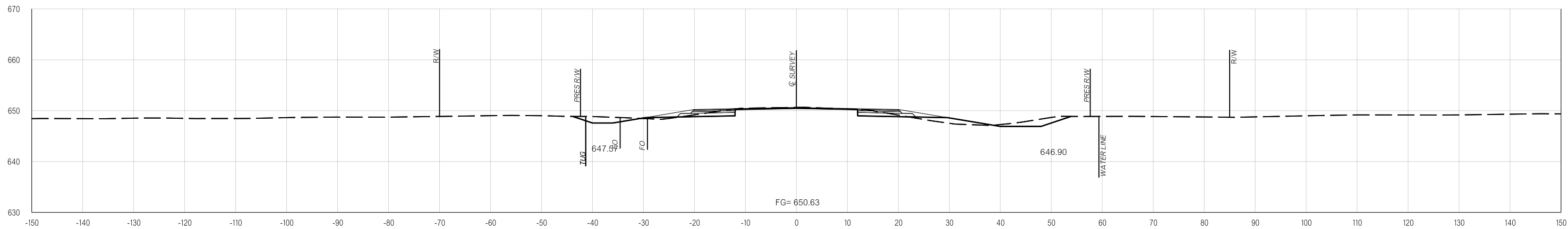
02-03-20



1452+00.00



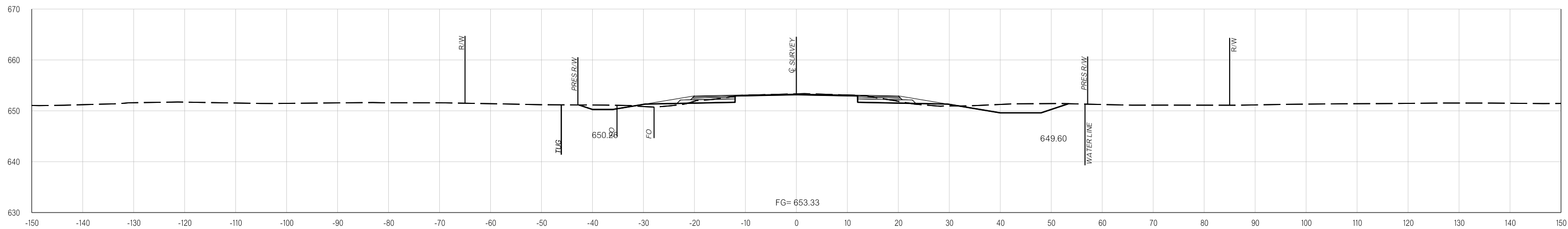
1451+00.00



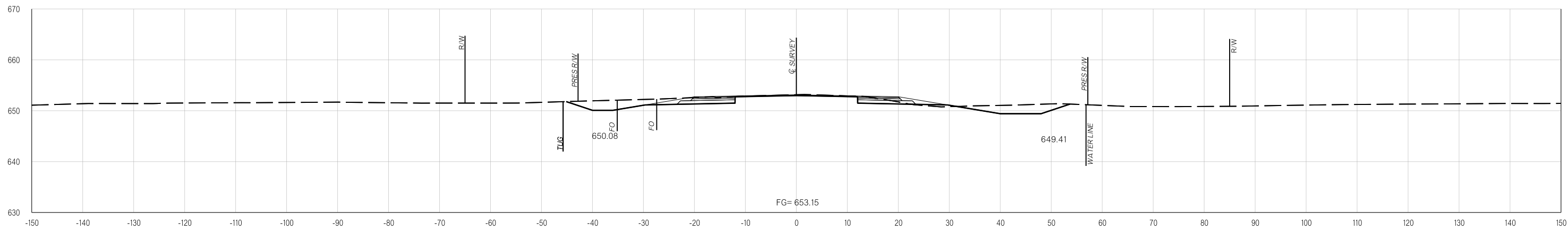
1450+00.00

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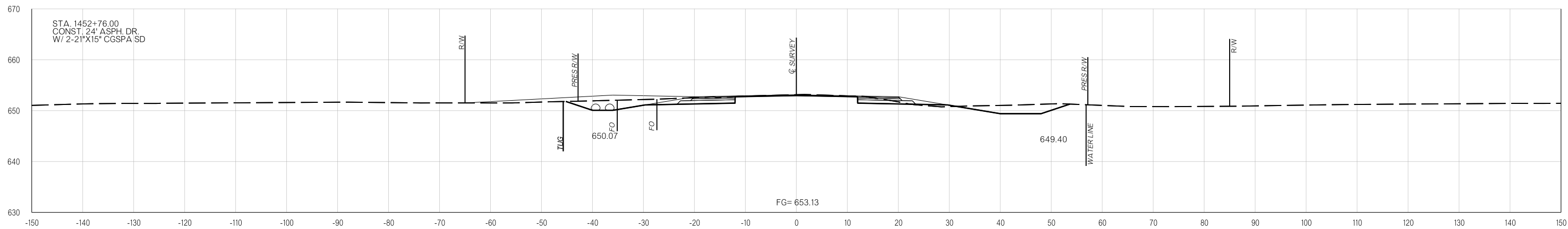
02-03-20



1453+00.00

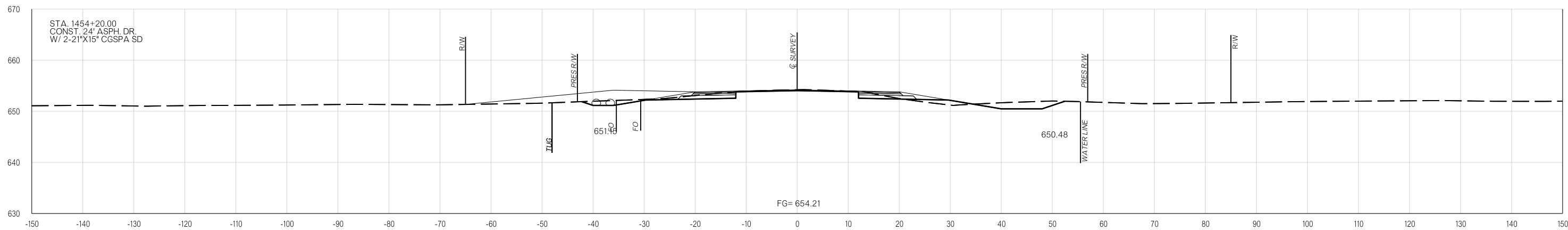


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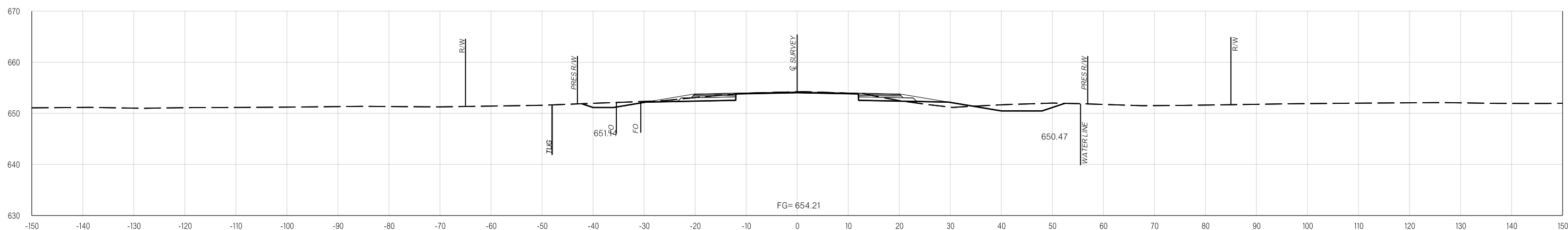


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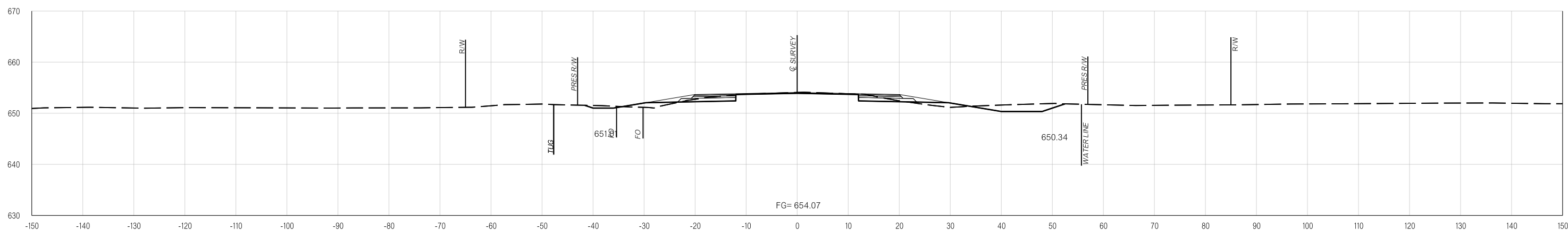
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1454+20.00

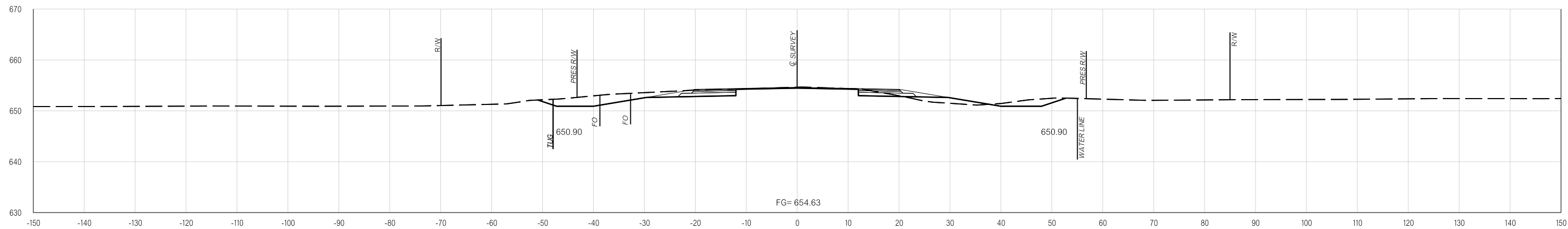


1454+19.32

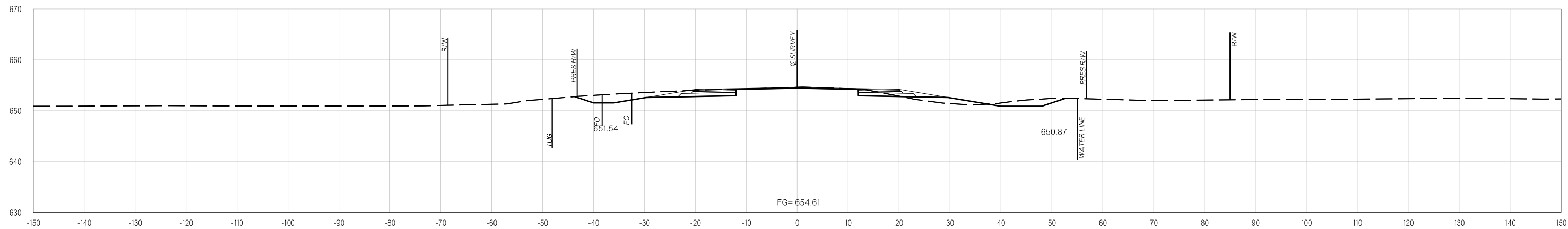


1454+00.00

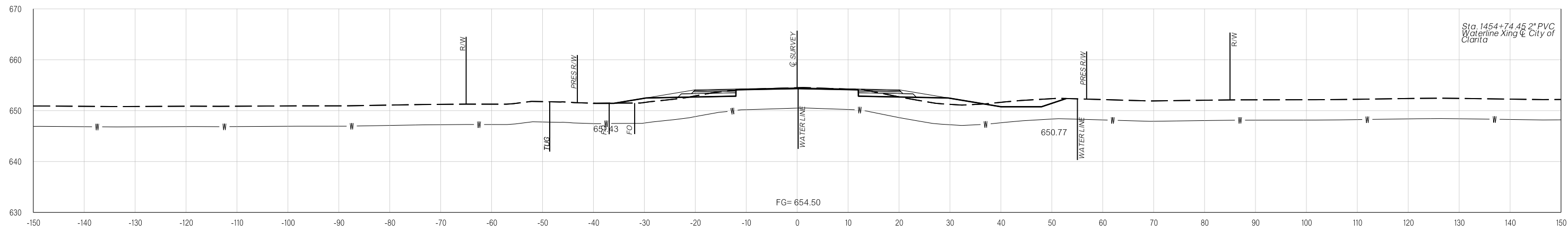
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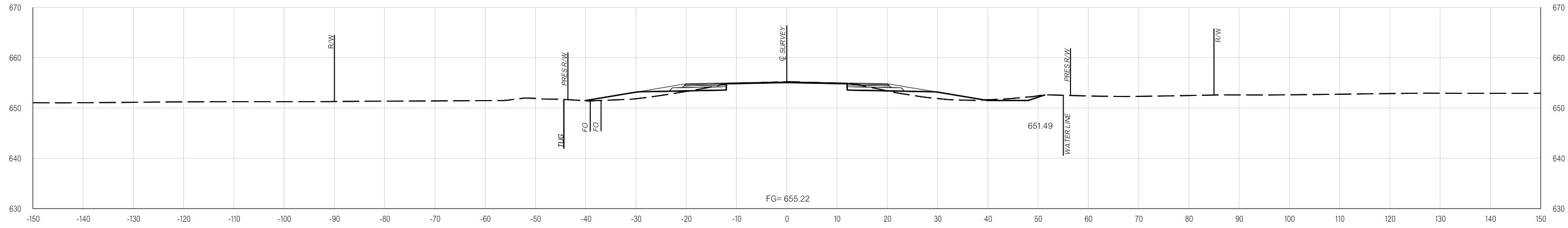
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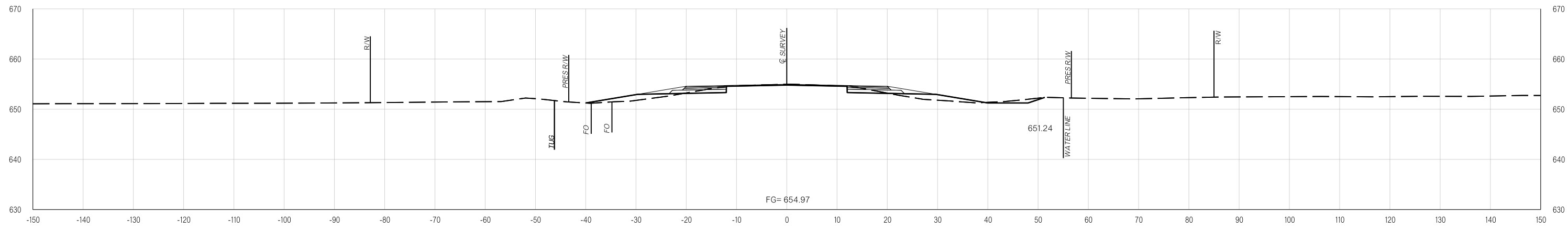
1455+00.00



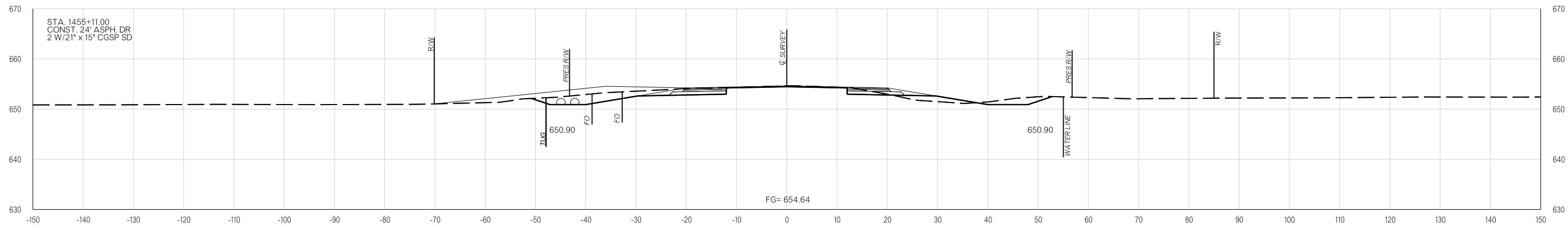
1454+74.44



1457+00.00

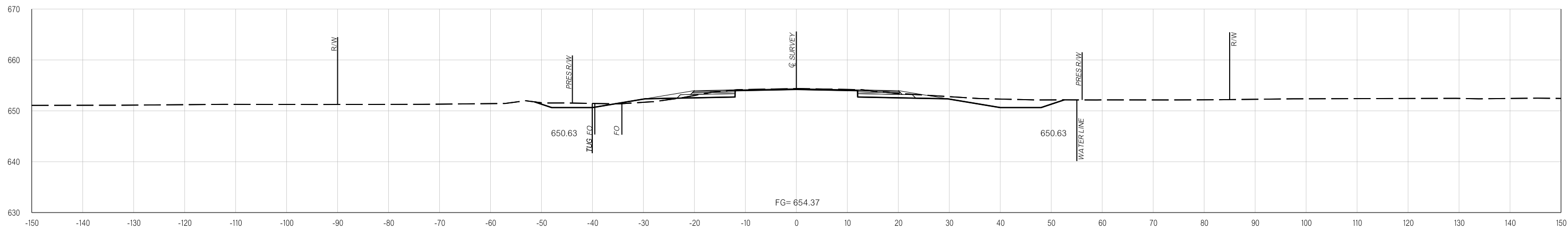


1456+00.00

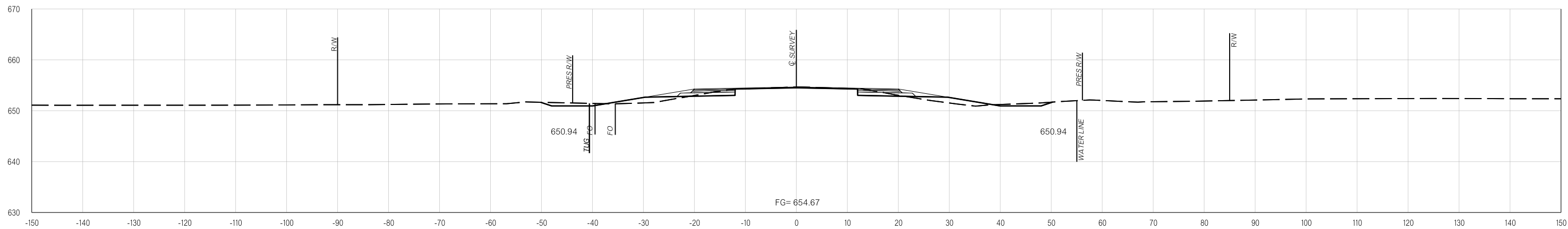


1455+11.00

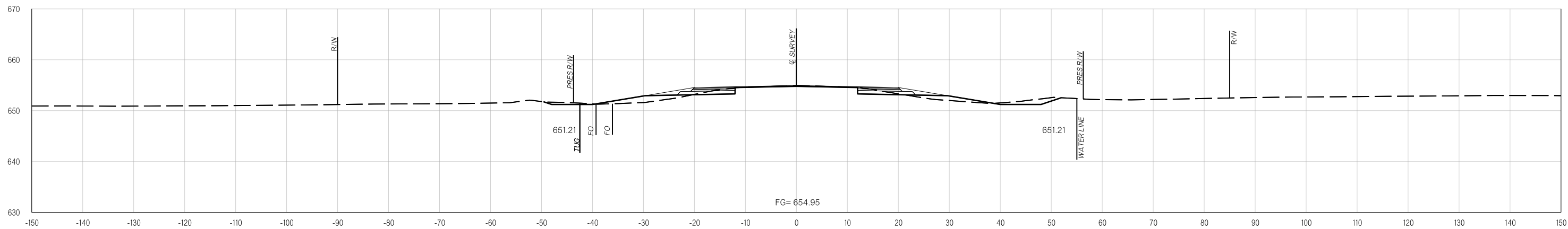
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02-03-20



1459+29.70



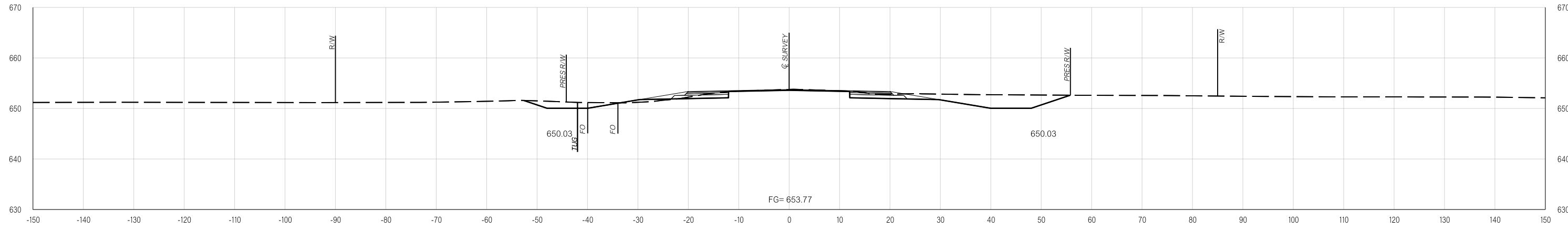
1459+00.00



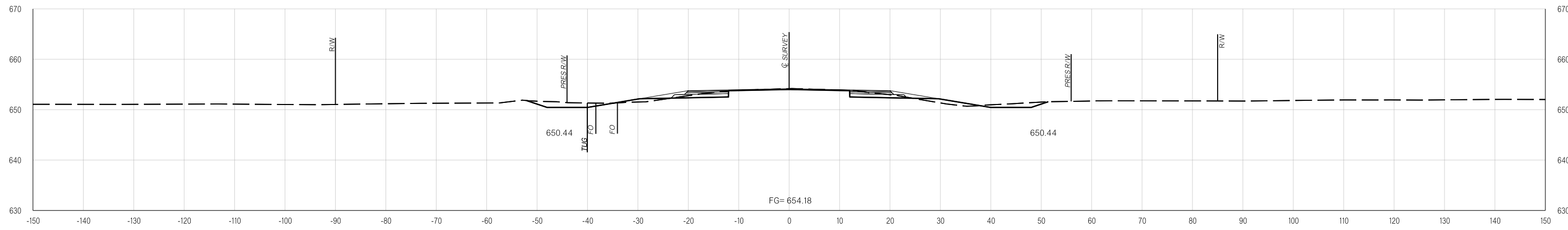
1458+00.00

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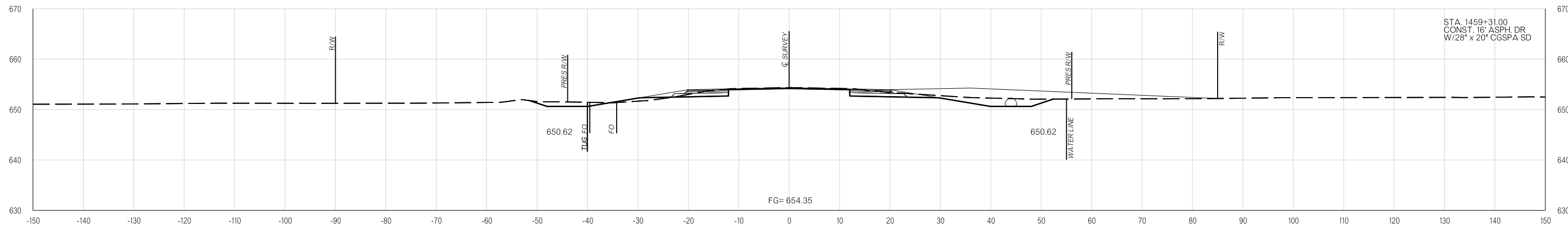
02-03-20



1460+87.02

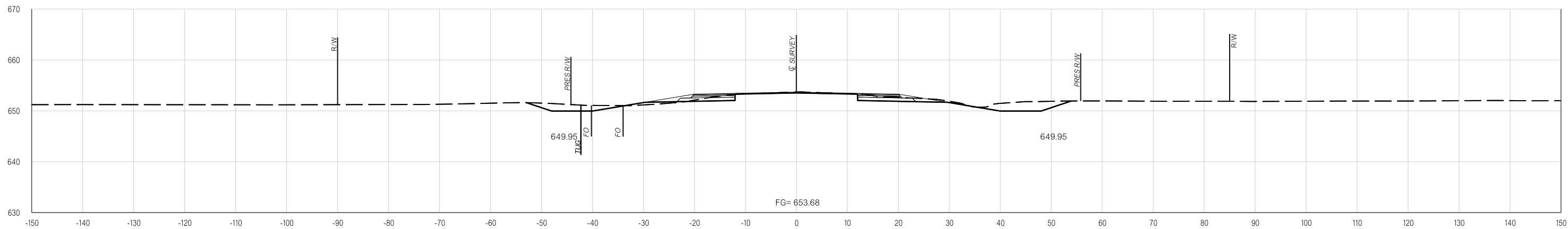


1460+00.00

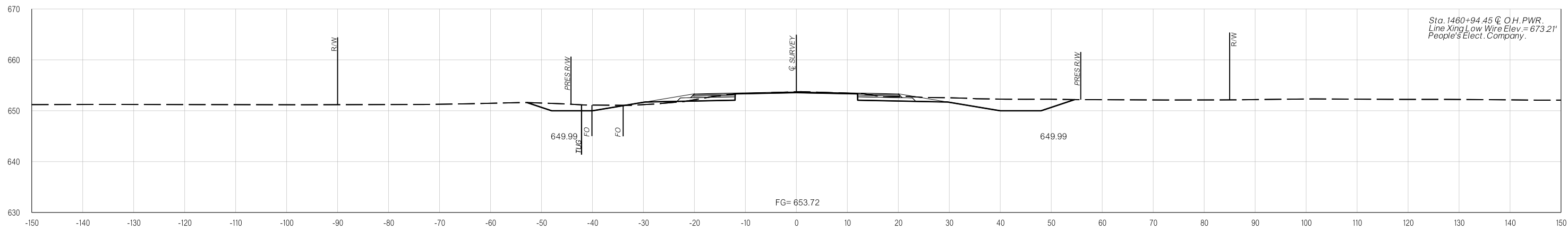


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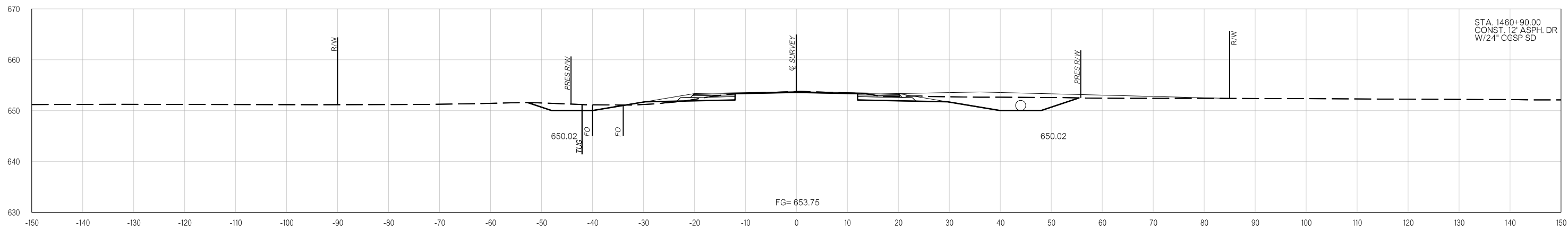
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1461+00.00



1460+94.45



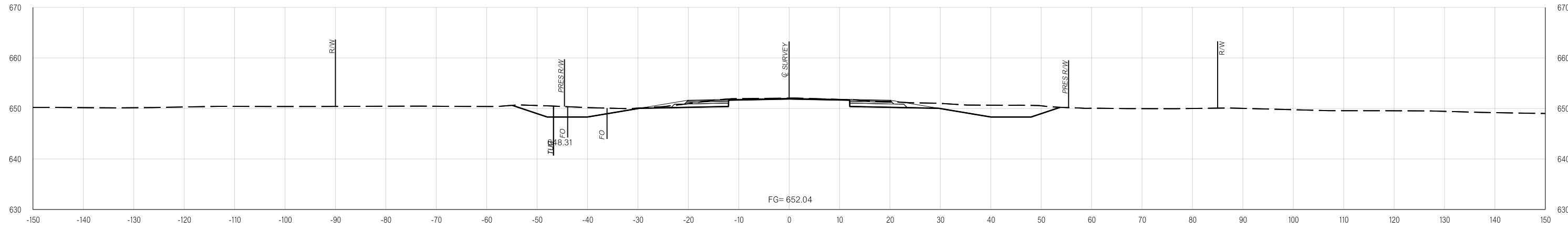
1460+90.00

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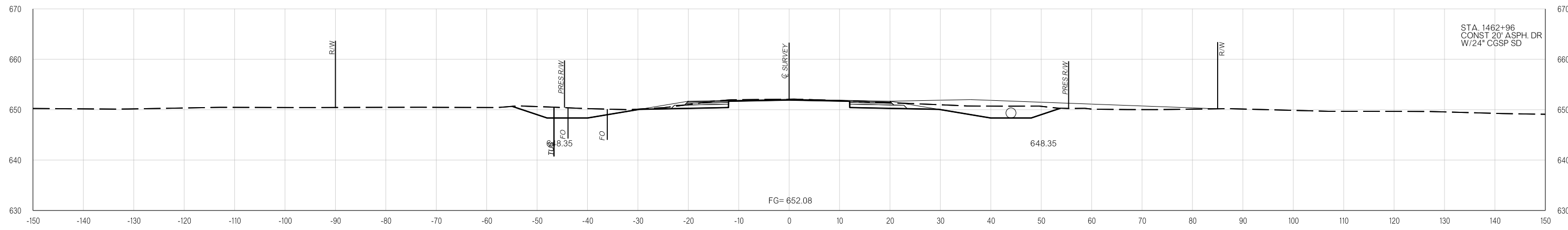
02-03-20

PROPOSED R/W

02-03-20

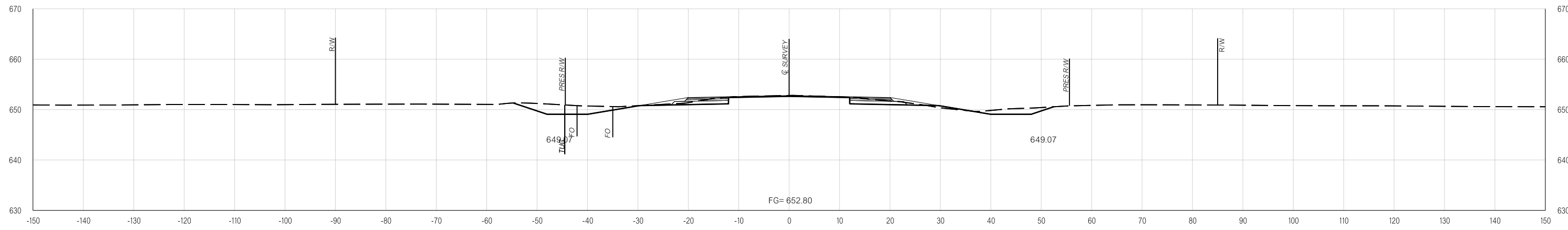


1463+00.00



STA. 1462+96
CONST 20' ASPH. DR
W/24" CGSP SD

1462+96.00



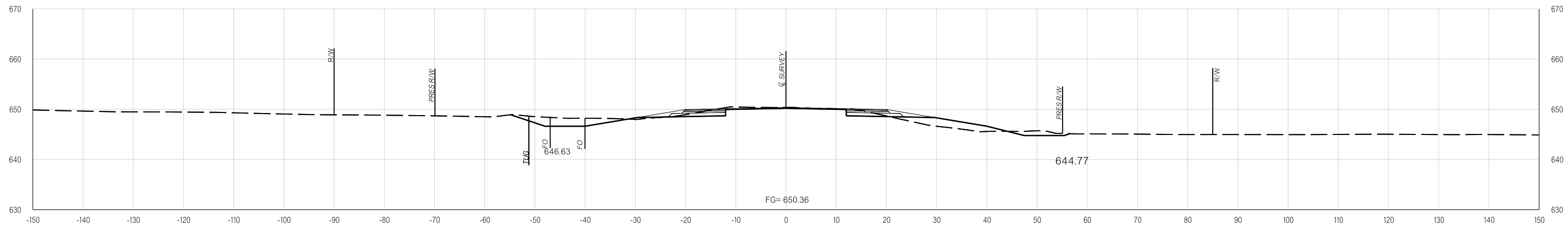
1462+00.00

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02-03-20

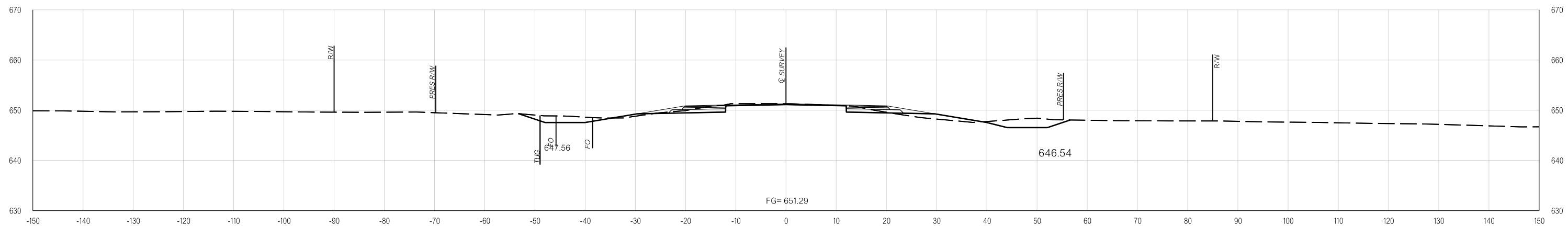
PROPOSED
R/W

02-03-20

02-03-20 pw:\APP-PWIS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



1465+00.00



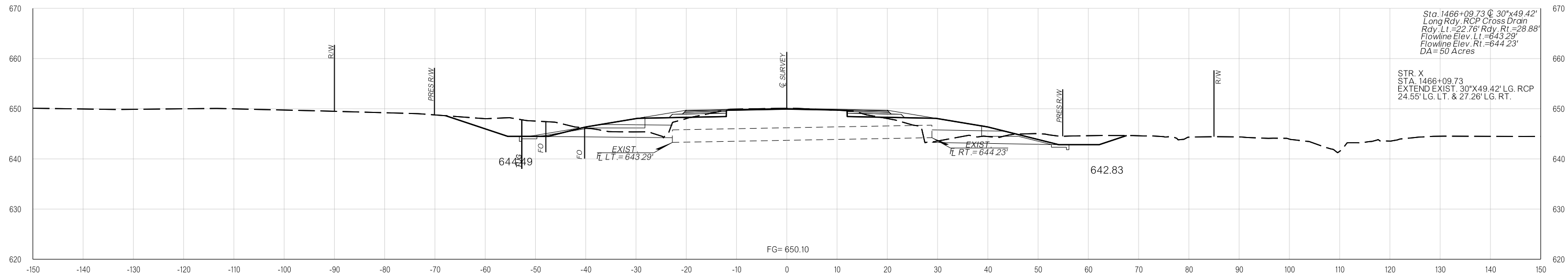
1464+00.00

PROPOSED R/W

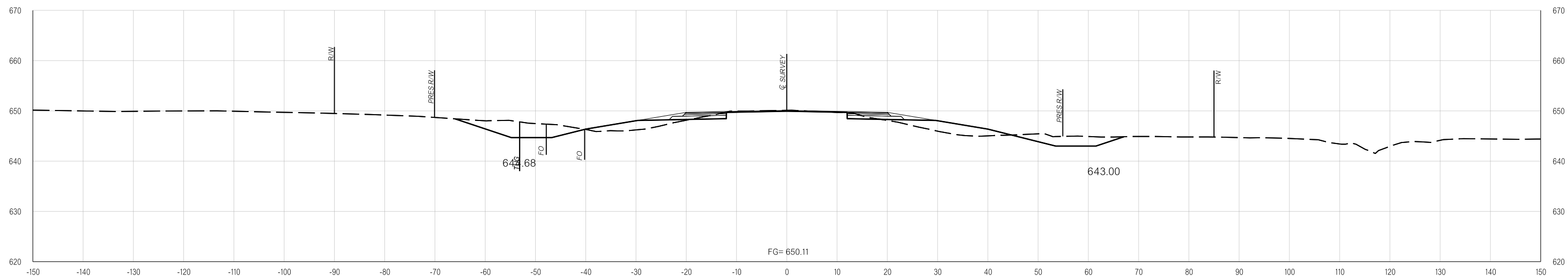
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02-03-20



1466+09.62

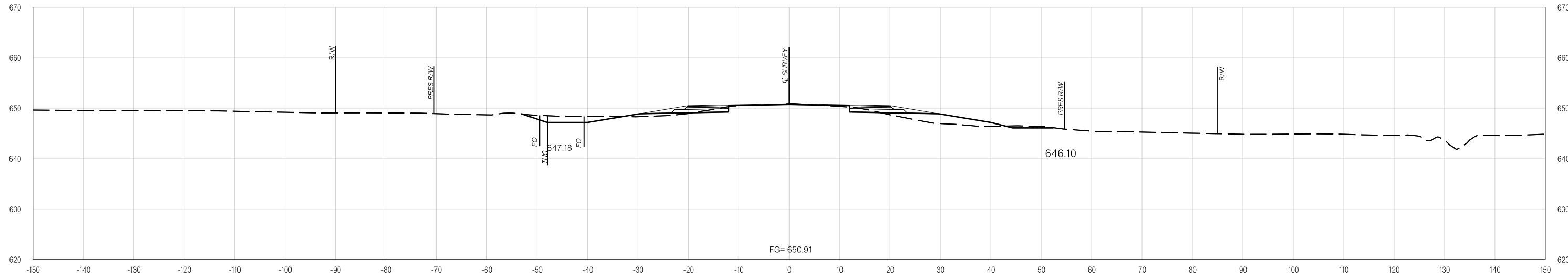


1466+00.00

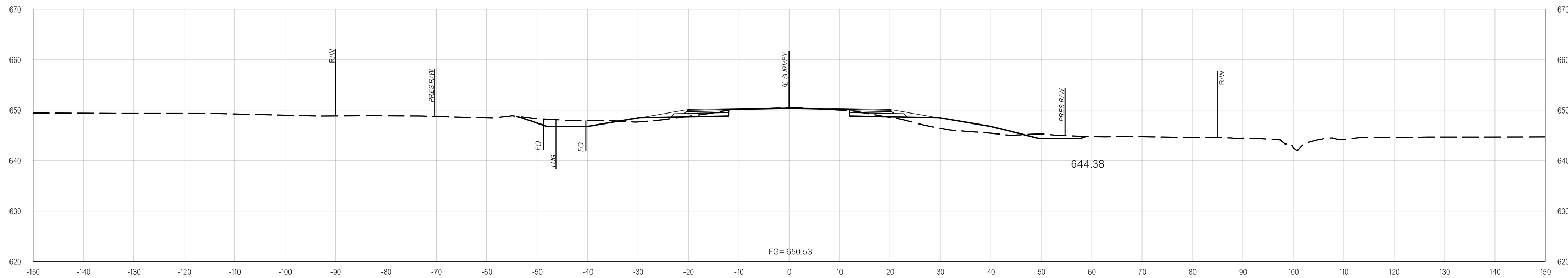
PROPOSED R/W

02-03-20

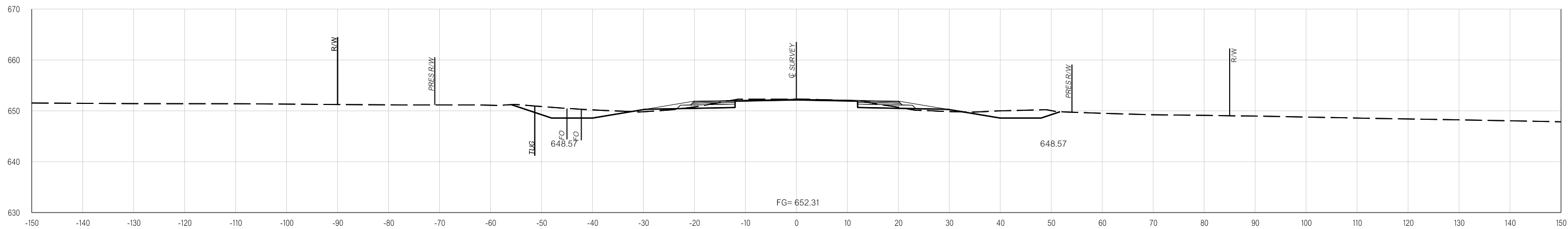
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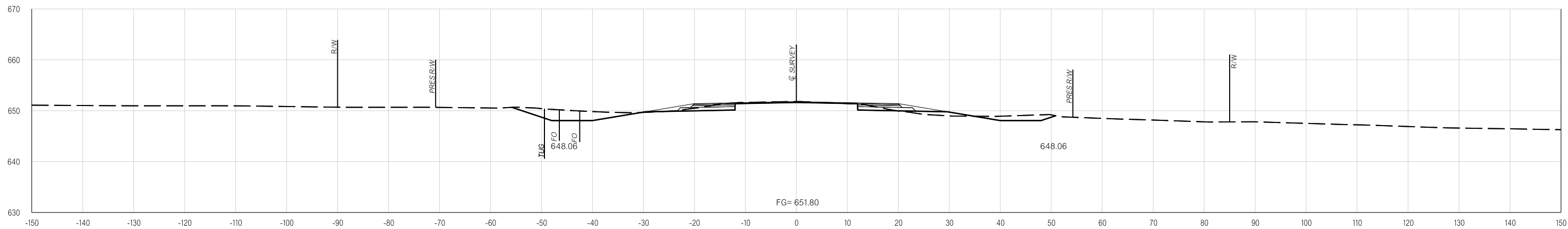
1468+00.00



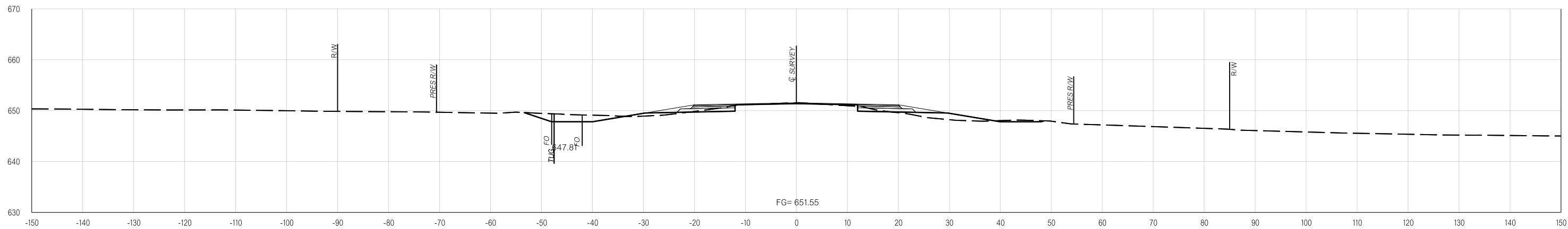
1467+00.00



1471+00.00

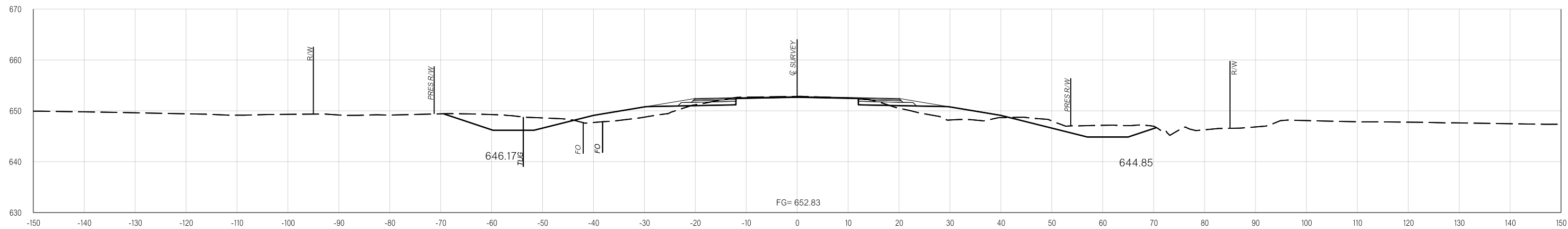


1470+00.00

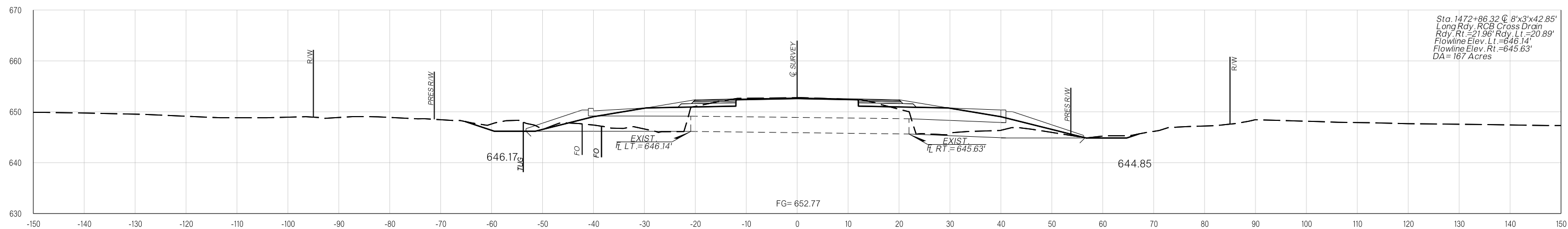


1469+00.00

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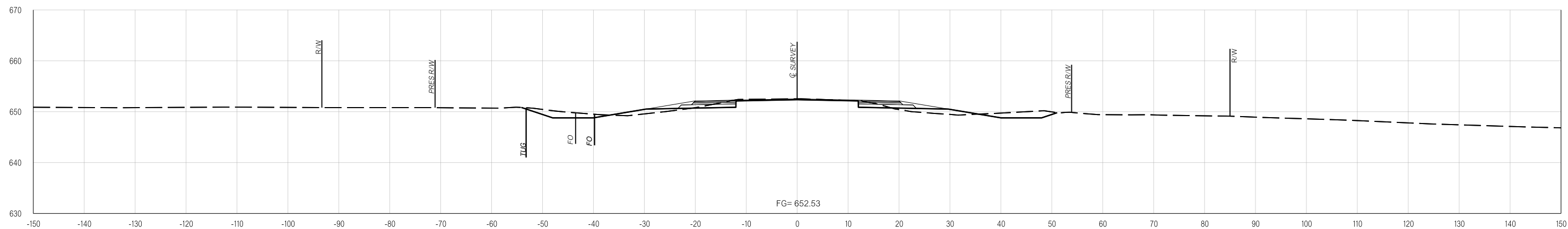


1473+00.00



Sta. 1472+86.32 @ 8'x3'x42.85'
 Long Rdy, RCB Cross Drain
 Rdy. Rt. = 21.96' Rdy. Lt. = 20.89'
 Flowline Elev. Lt. = 646.14'
 Flowline Elev. Rt. = 645.63'
 DA = 167 Acres

1472+86.35



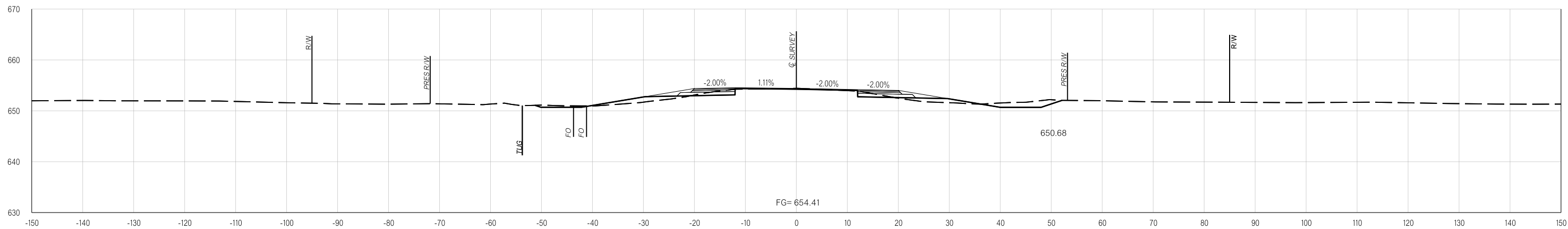
1472+00.00

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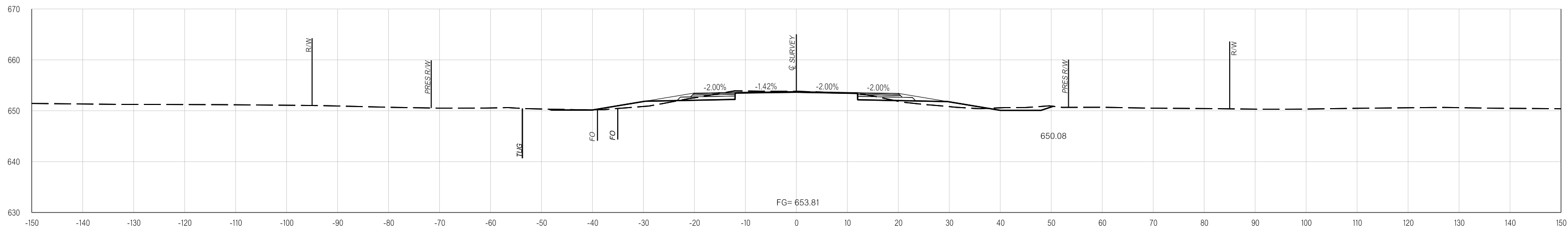
05-12-20

PROPOSED R/W

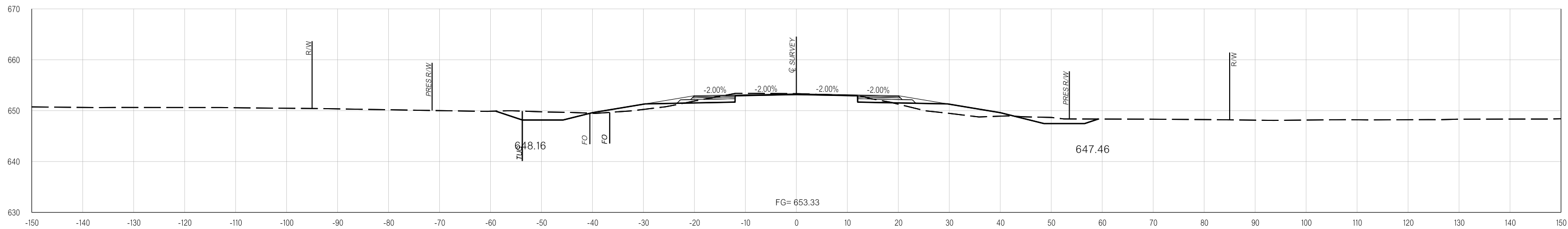
02-03-20



1476+00.00



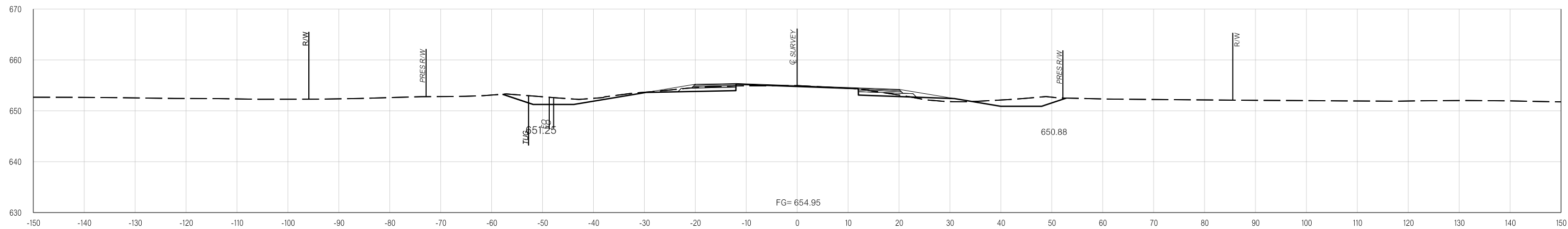
1475+00.00



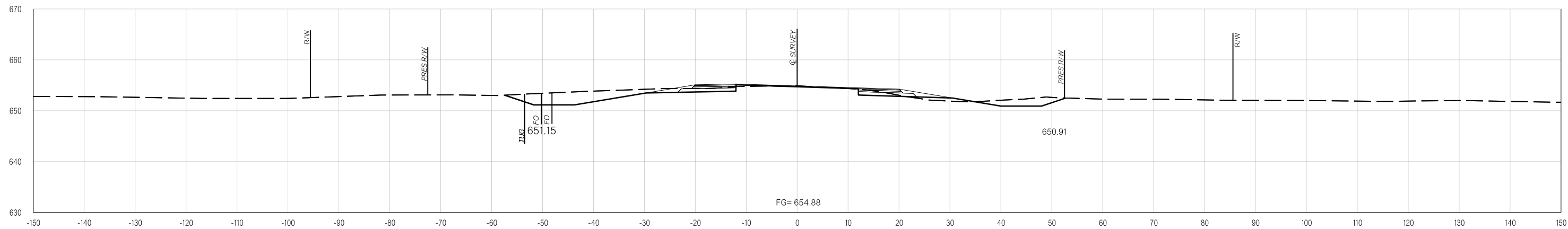
BEGIN SUPERELEVATION
1474+00.00

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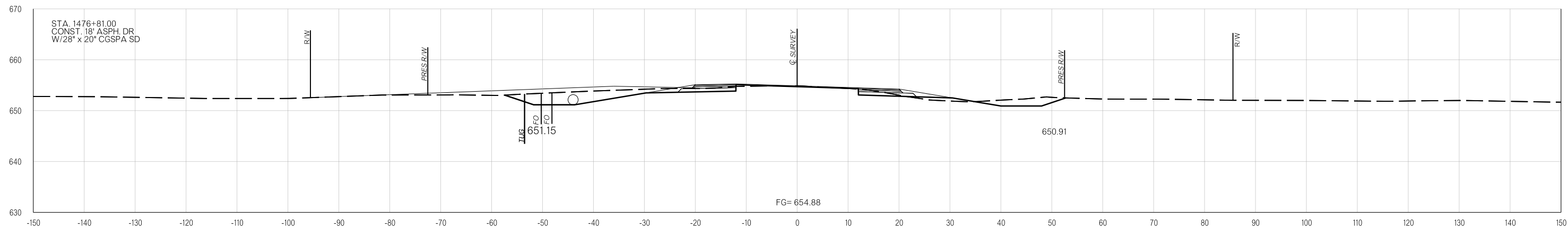
02-03-20



1477+00.00



1476+81.21



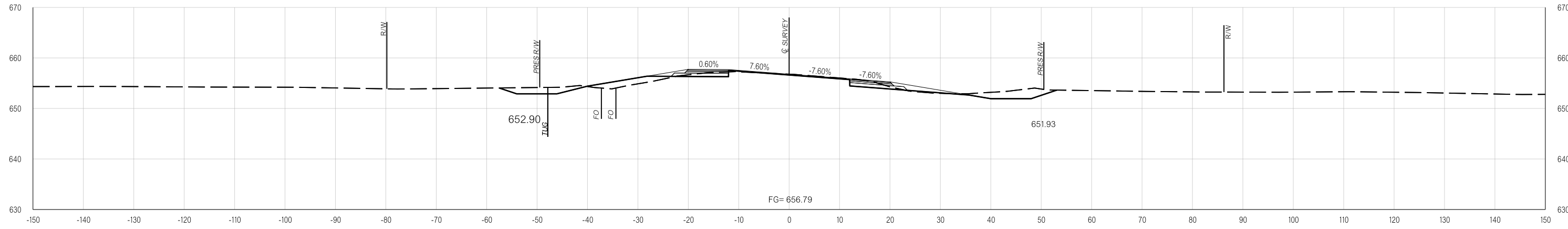
1476+81.00

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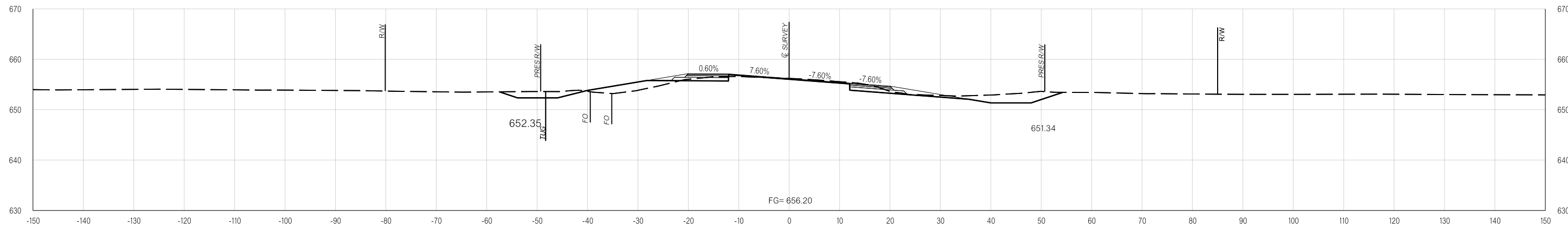
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PROPOSED R/W

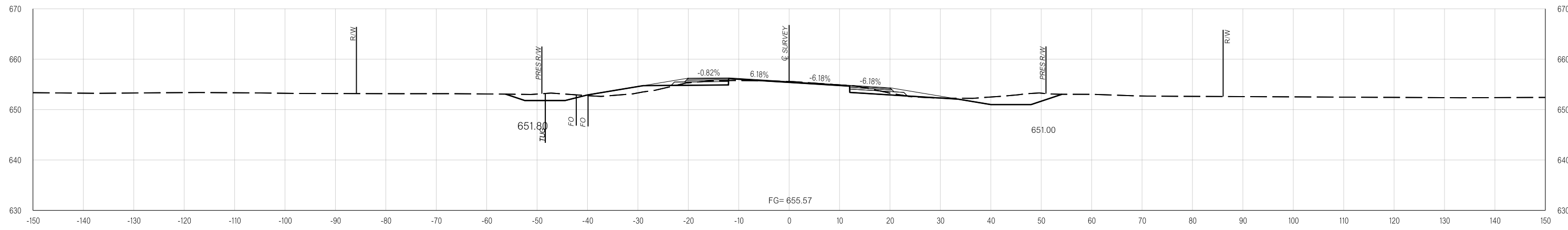
02-03-20



1480+00.00



1479+00.00



1478+00.00

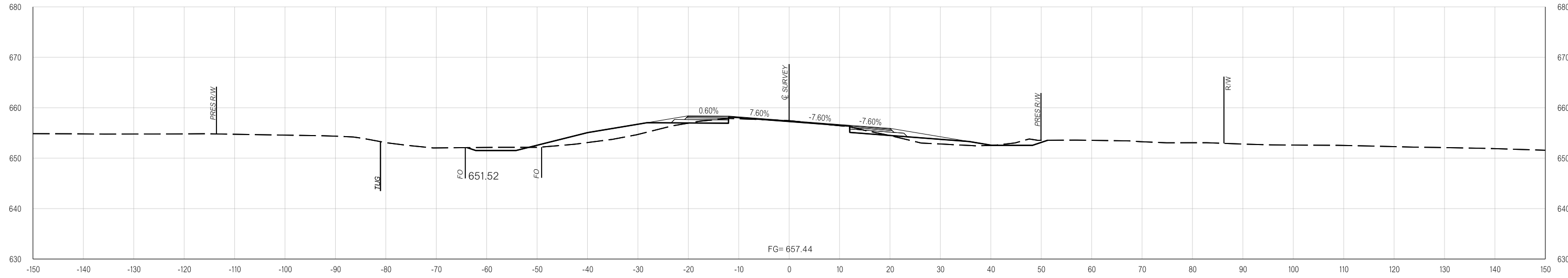
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PROPOSED R/W

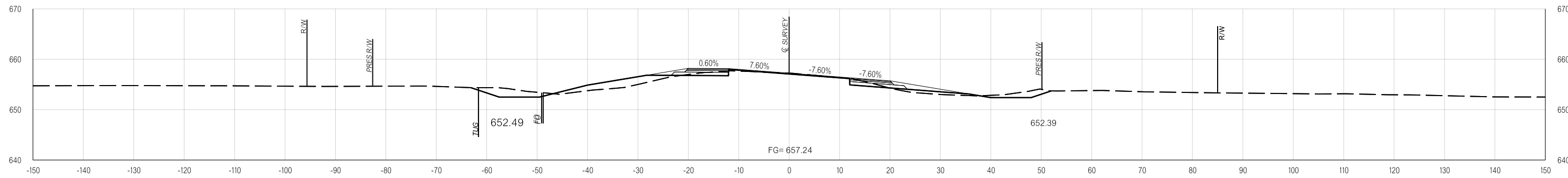
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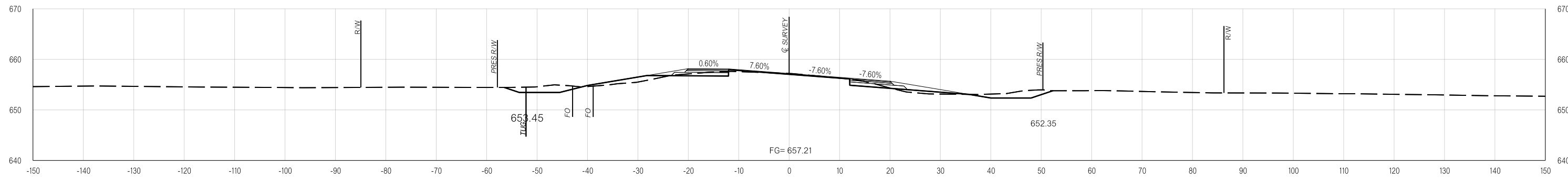
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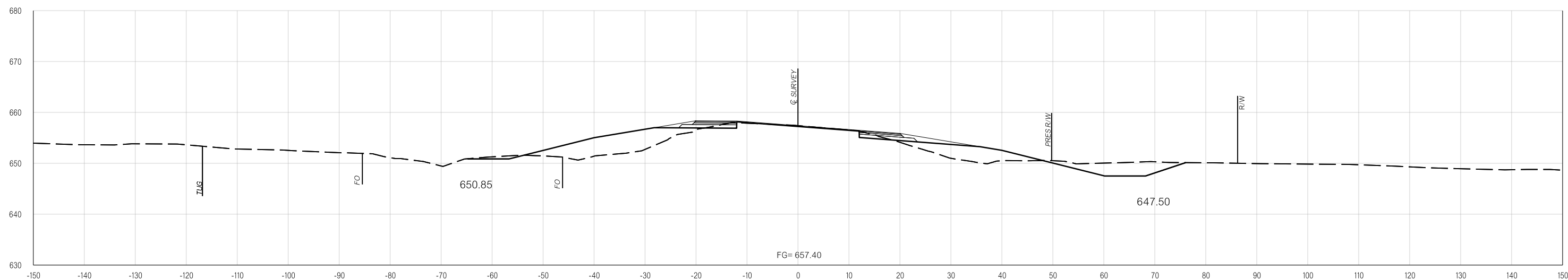
1483+00.00



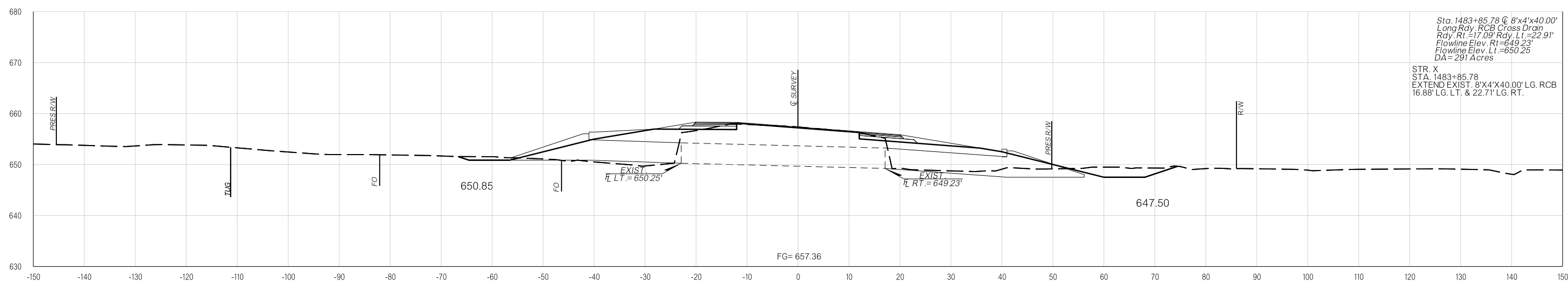
1482+00.00



1481+00.00



1484+00.00



Sta. 1483+85.78 @ 8'x4'x40.00'
 Long Rdy. RCB Cross Drain
 Rdy. Rt. = 17.09' Rdy. Lt. = 22.91'
 Flowline Elev. Rt. = 649.23'
 Flowline Elev. Lt. = 650.25'
 DA = 291 Acres

STR. X
 STA. 1483+85.78
 EXTEND EXIST. 8'x4'x40.00' LG. RCB
 16.88' LG. LT. & 22.71' LG. RT.

1483+85.71

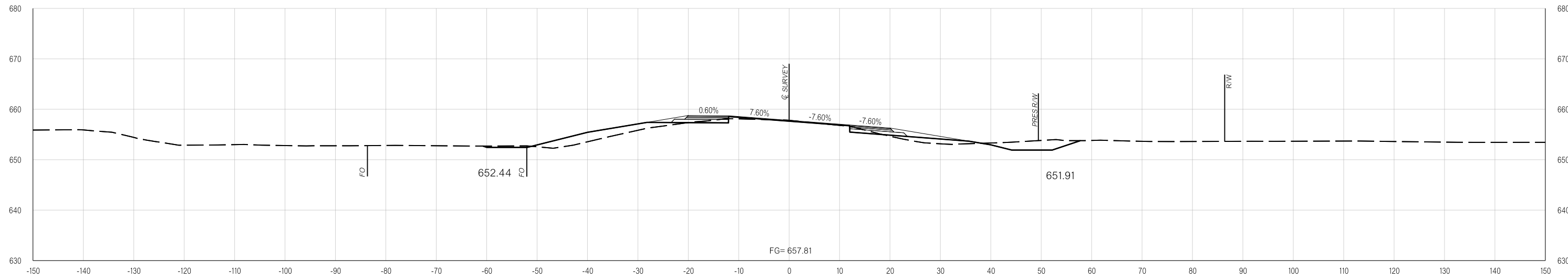
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03-09-22

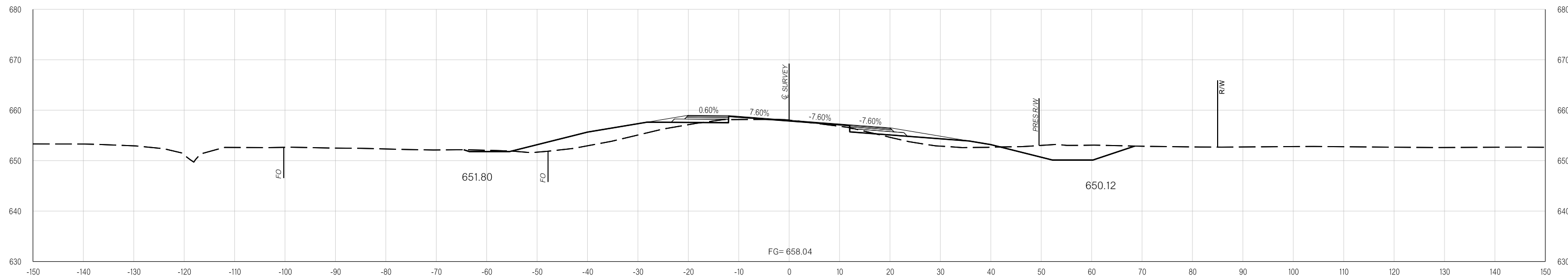
PROPOSED
R/W

02-03-20

02-03-20 pw:\VAPP-PWS05-345_agency_OK_local\ODOT\Projects\Documents\Projects\Division 3\JP31047-04\Roadway\Plan Sheets\31047(04)-Xsec.dgn



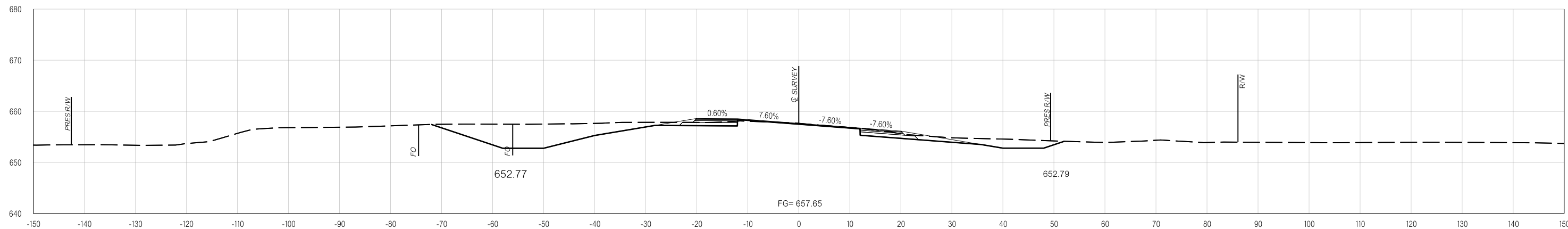
1485+68.28



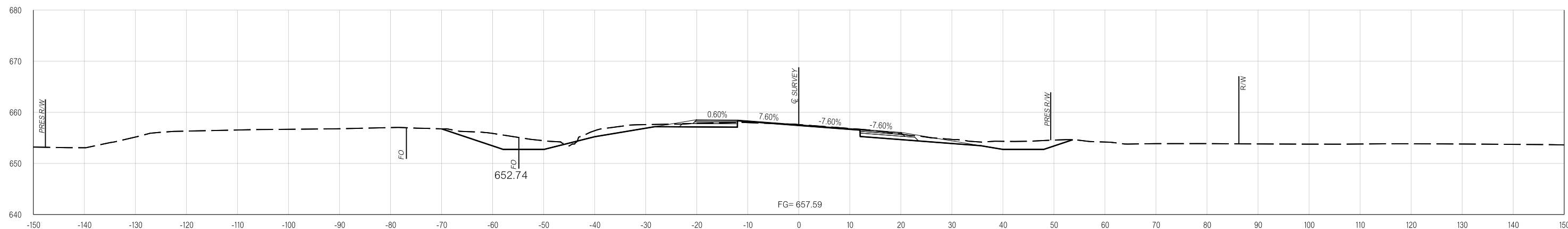
1485+00.00

PROPOSED R/W

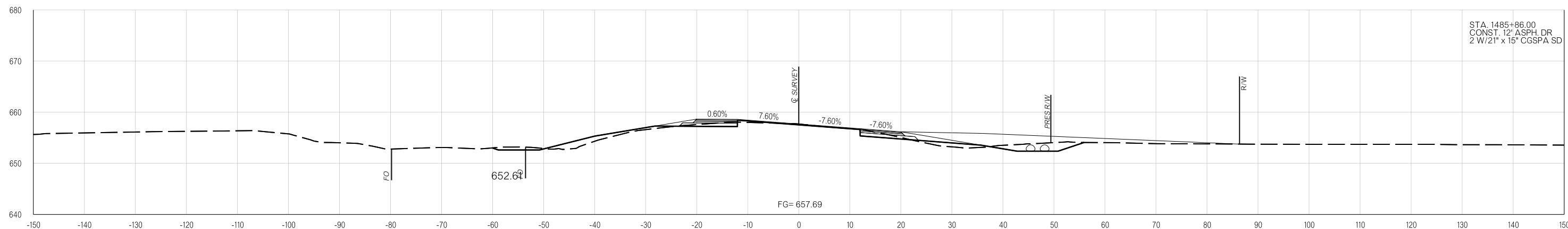
02-03-20



1486+11.90



1486+00.00

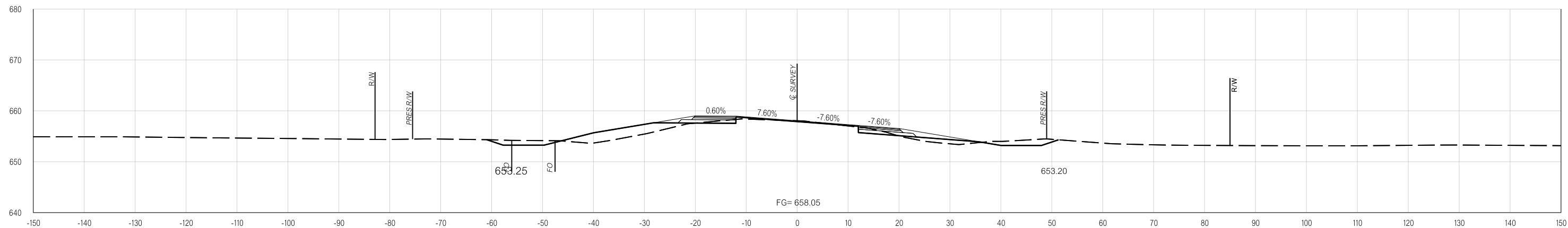


1485+86.00

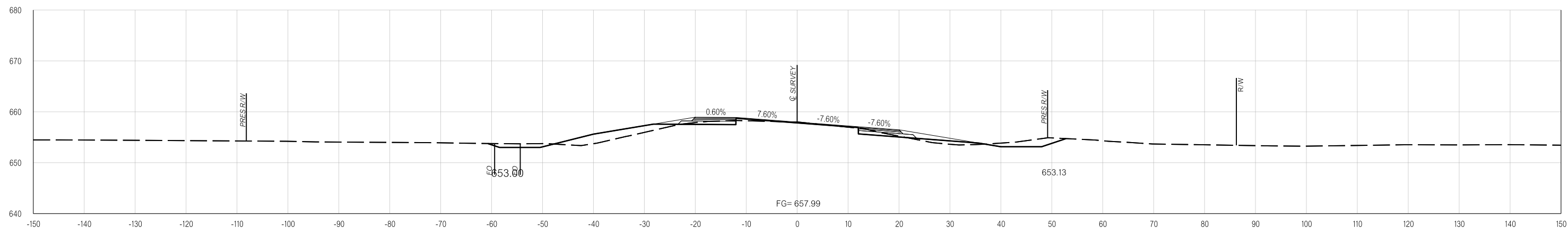
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02-03-20

PROPOSED R/W

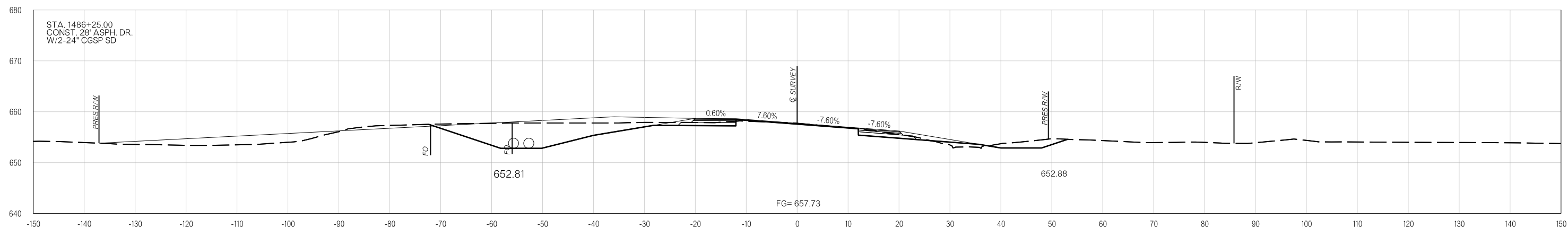
02-03-20



1488+00.00



1487+00.00

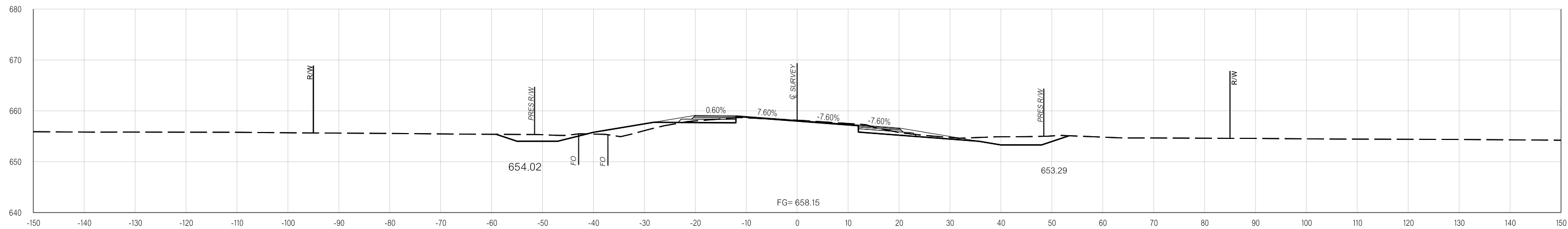


1486+25.00

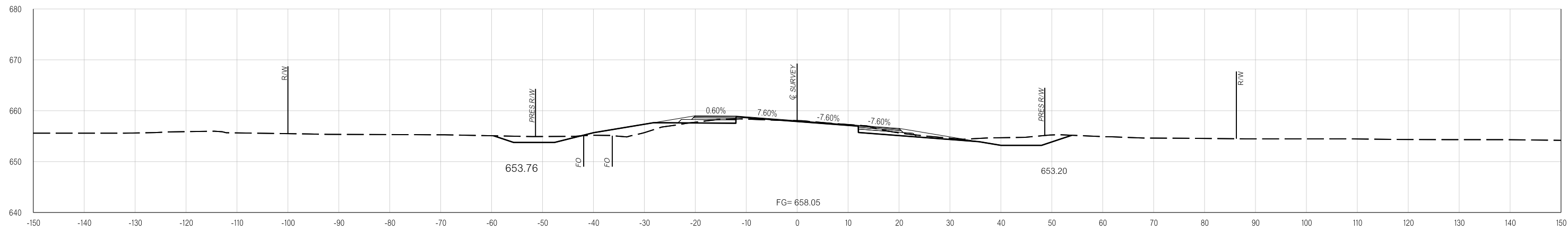
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02-03-20

PROPOSED R/W

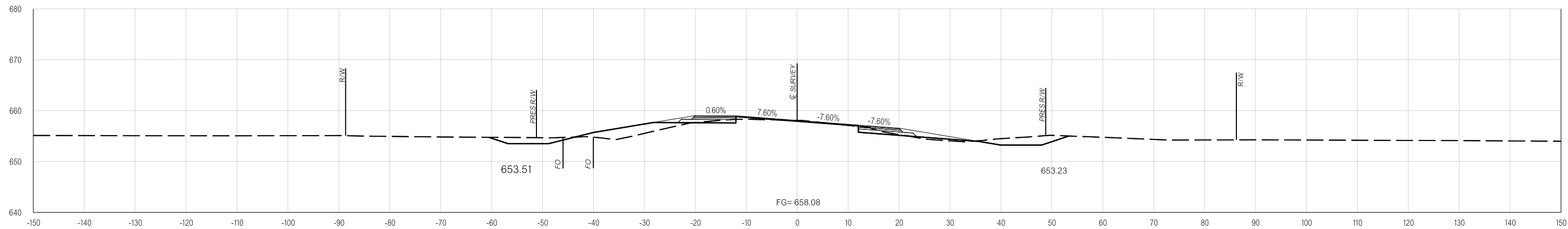
02-03-20



1491+00.00



1490+00.00

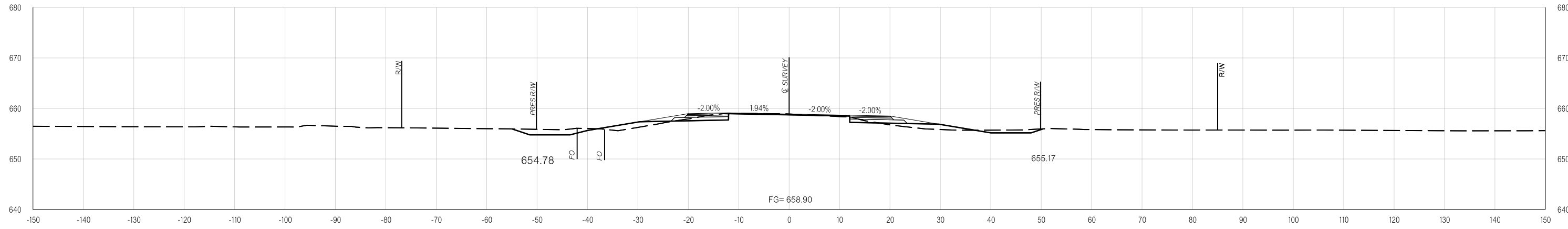


1489+00.00

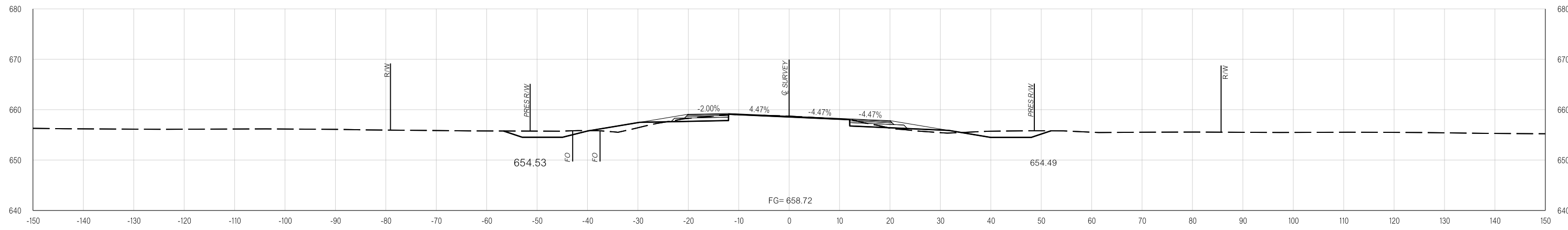
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02-03-20

PROPOSED R/W

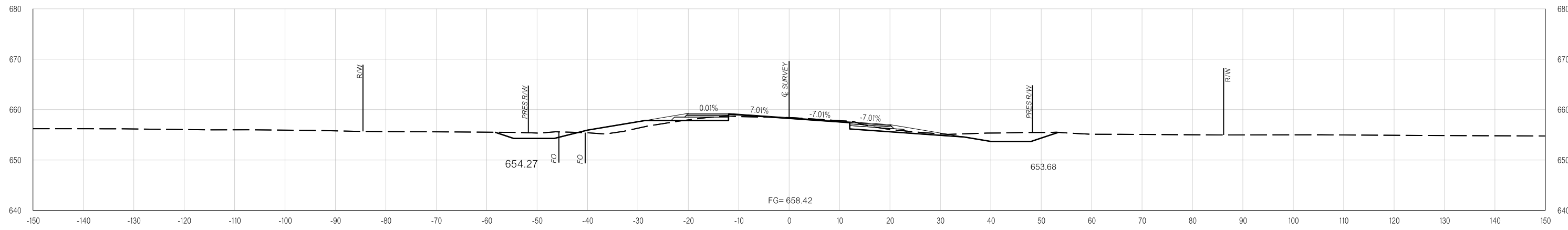
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1494+00.00



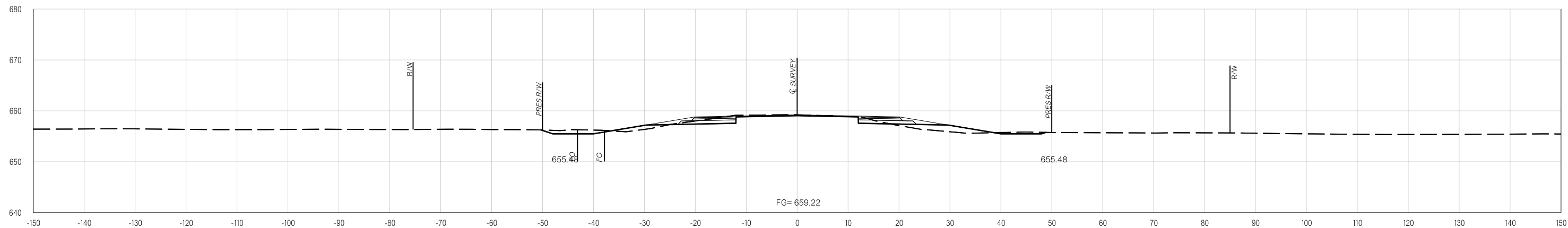
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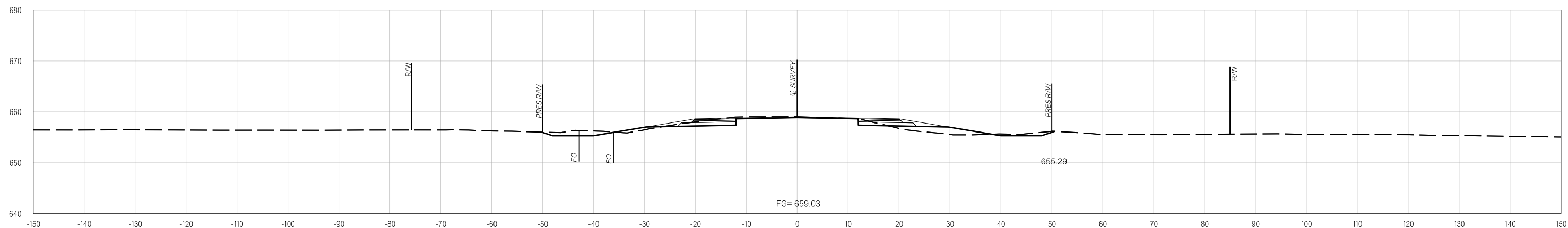
1492+00.00

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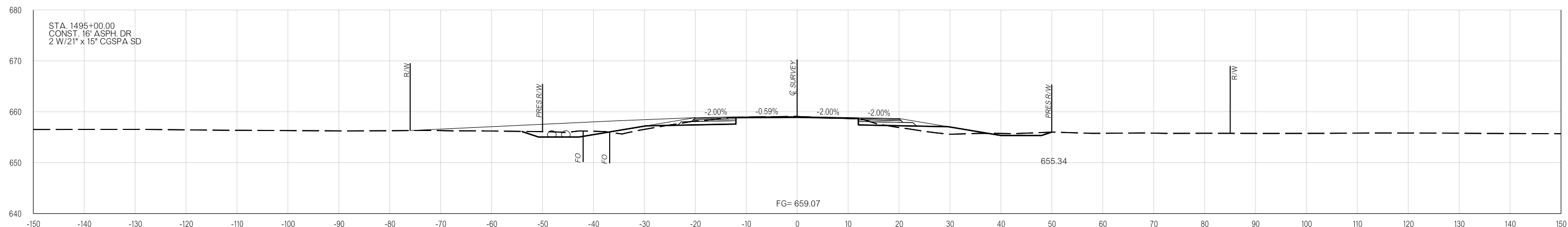
02-03-20



1497+00.00



1496+00.00

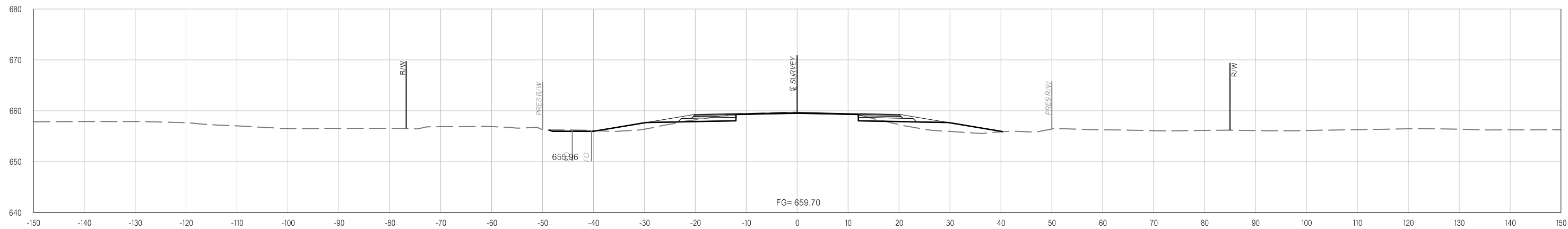


END SUPERELEVATION
1495+00.00

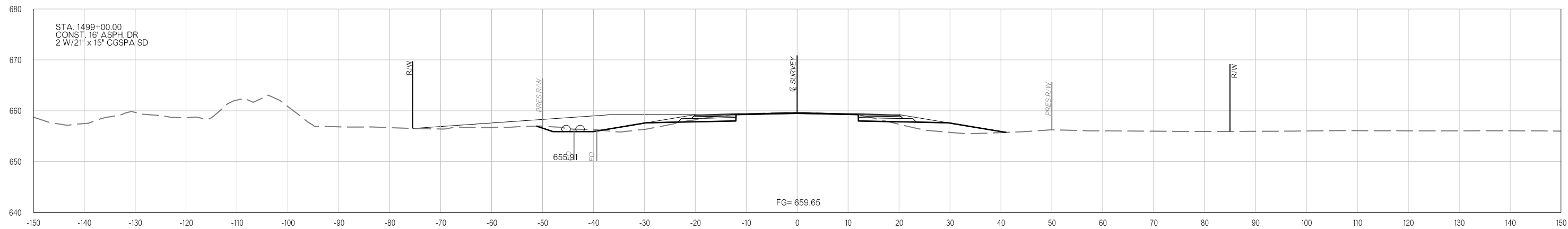
STA. 1495+00.00
CONST. 16" ASPH. DR
2 W/21" x 15" CGSPA SD

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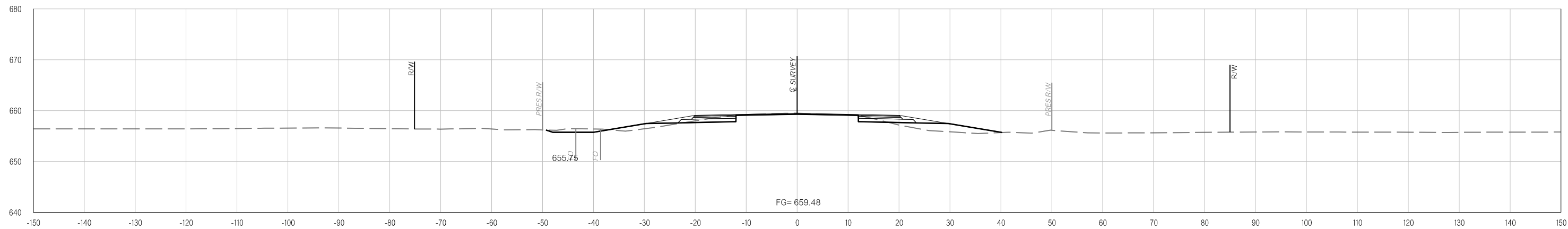
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1500+00.00

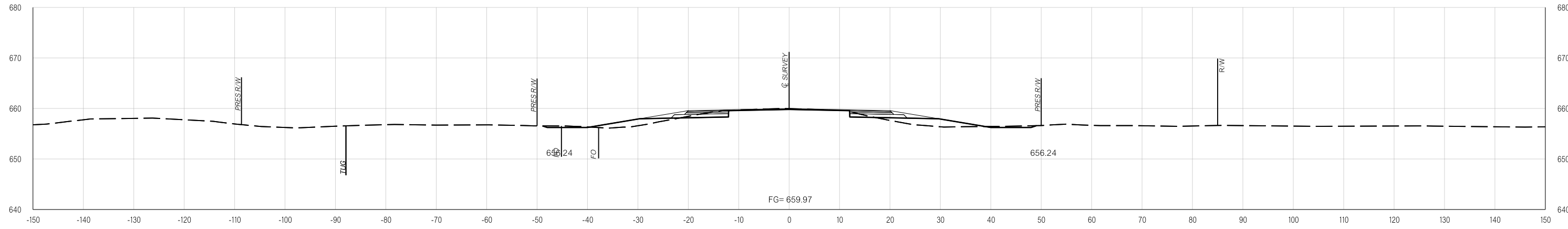


1499+00.00

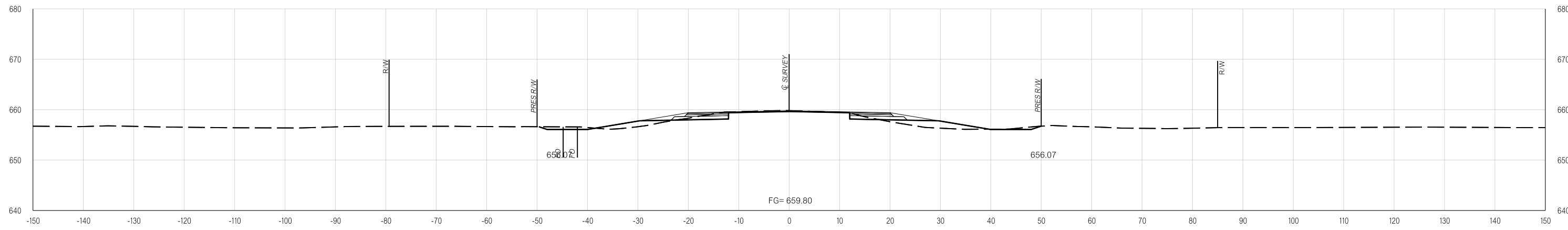


1498+00.00

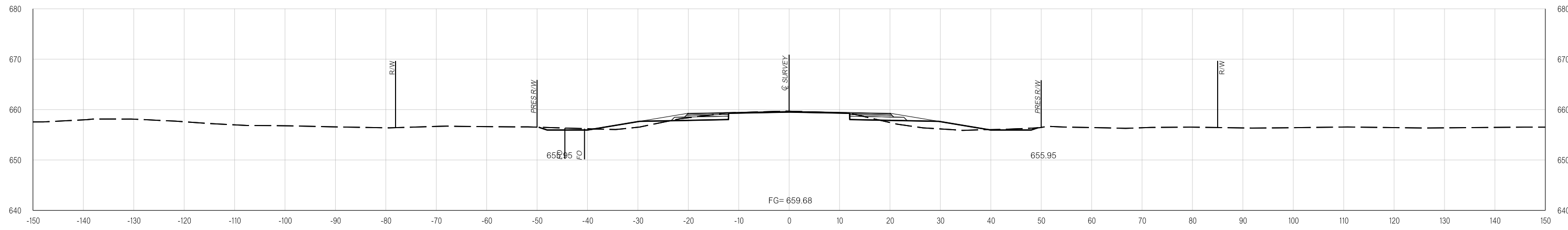
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03-23-20



1503+00.00

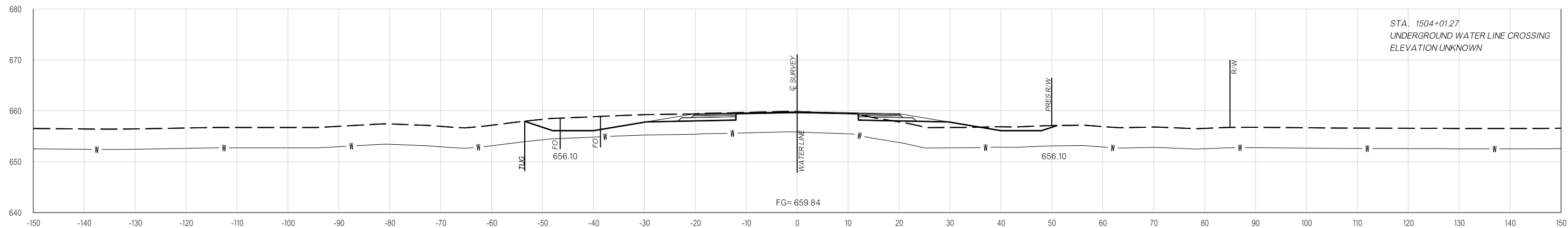


1502+00.00

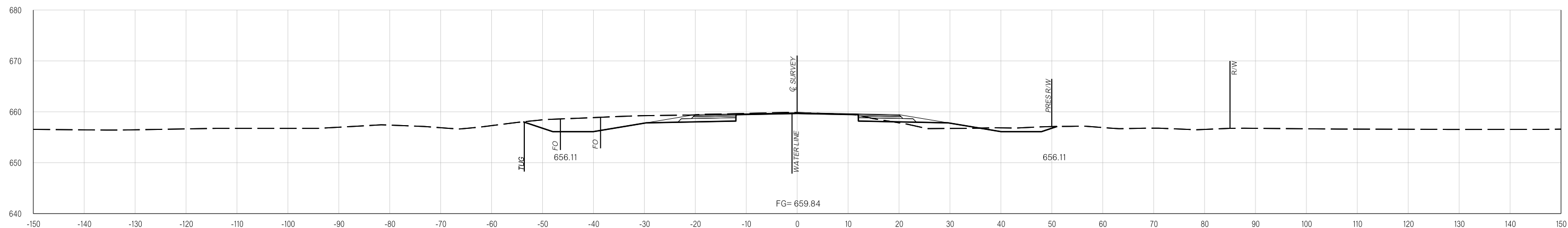


1501+00.00

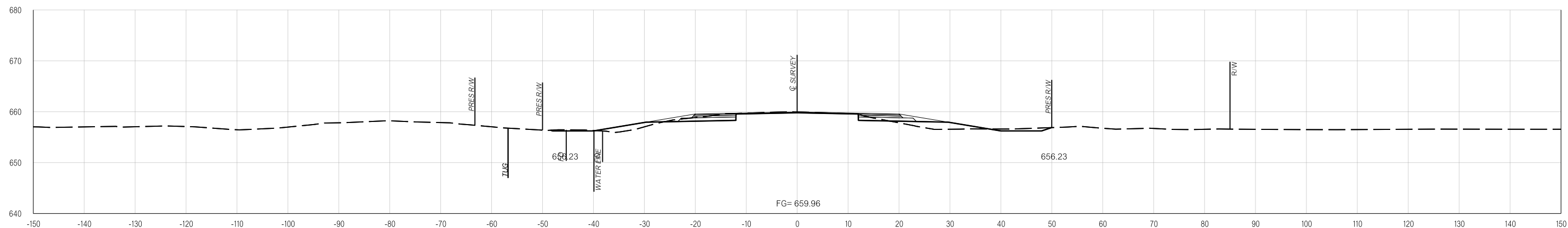
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1504+01.27



1504+00.00



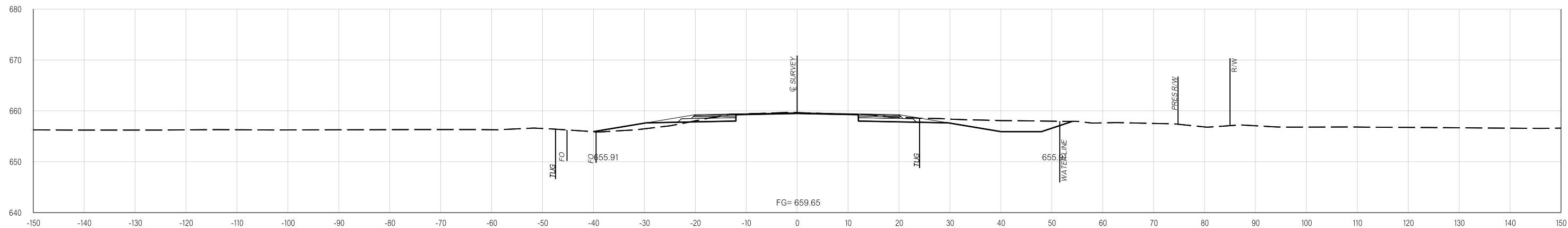
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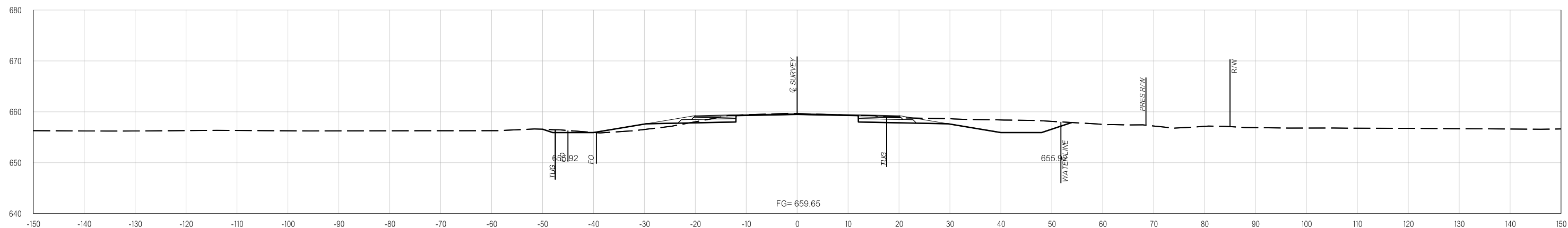
02-03-20

PROPOSED R/W

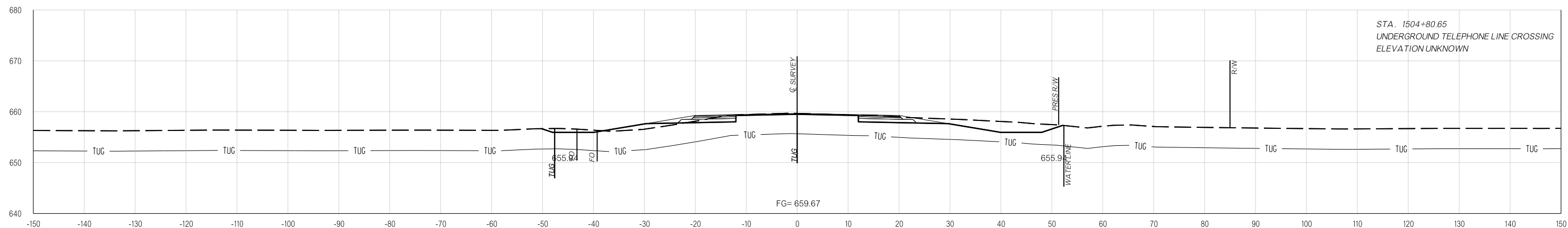
02-03-20



1505+07.11



1505+00.00



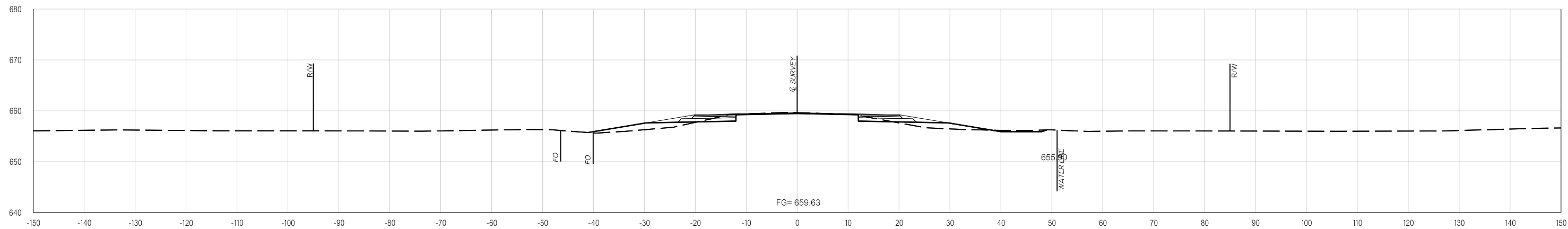
1504+80.65

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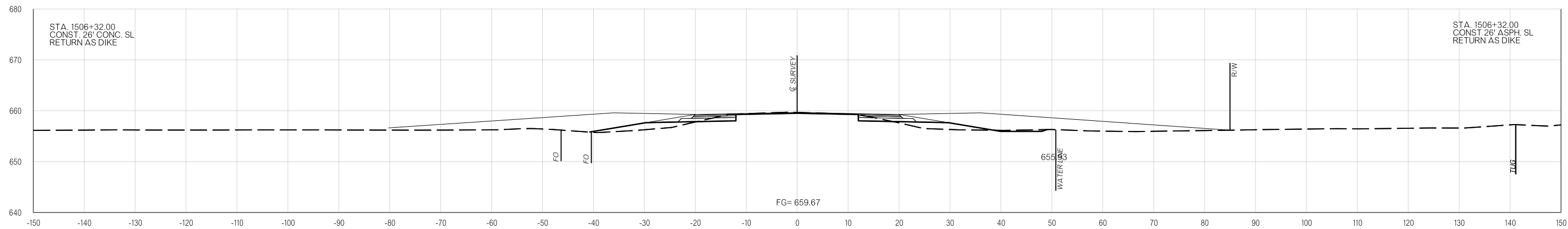
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PROPOSED R/W

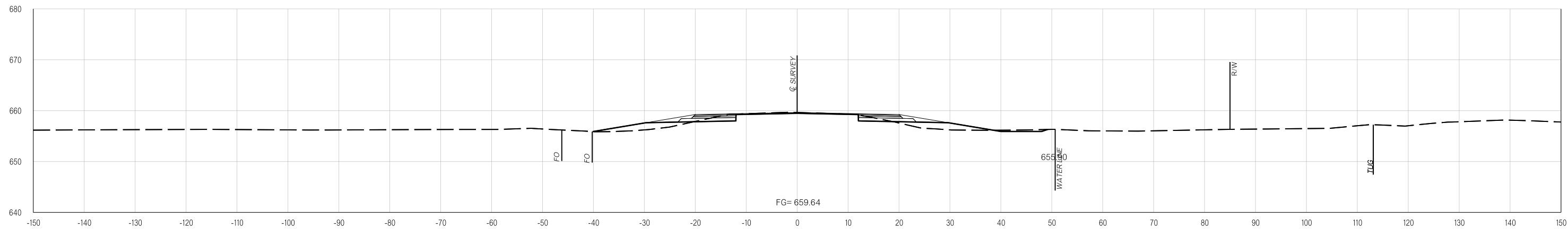
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1507+00.00

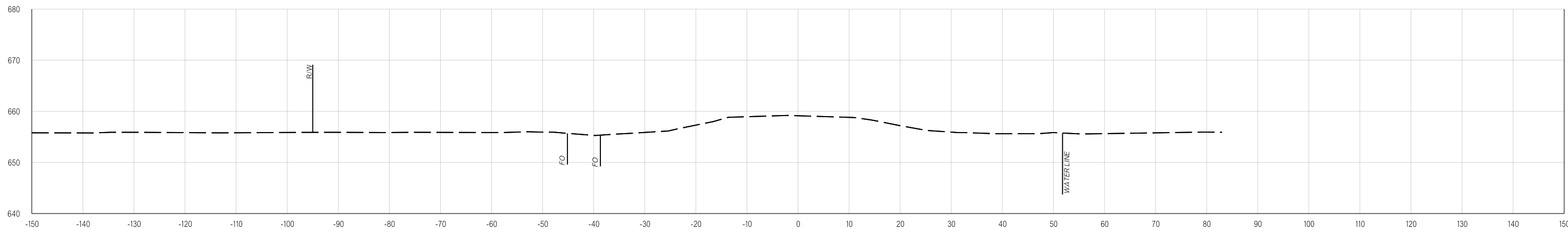


1506+32.00

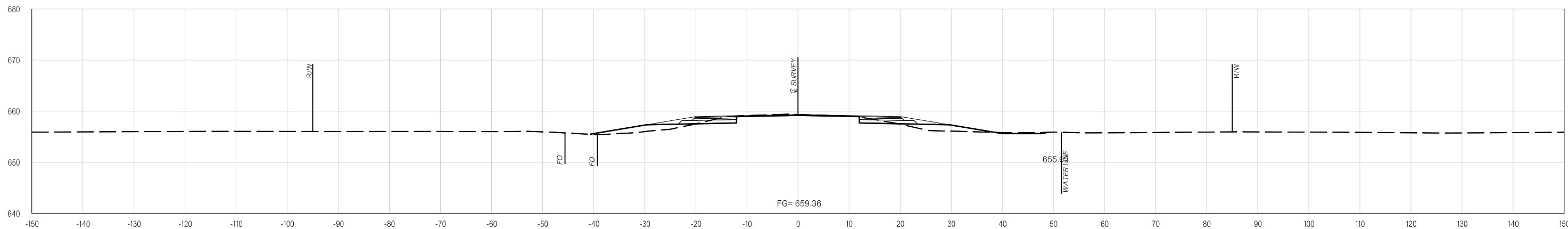


1506+00.00

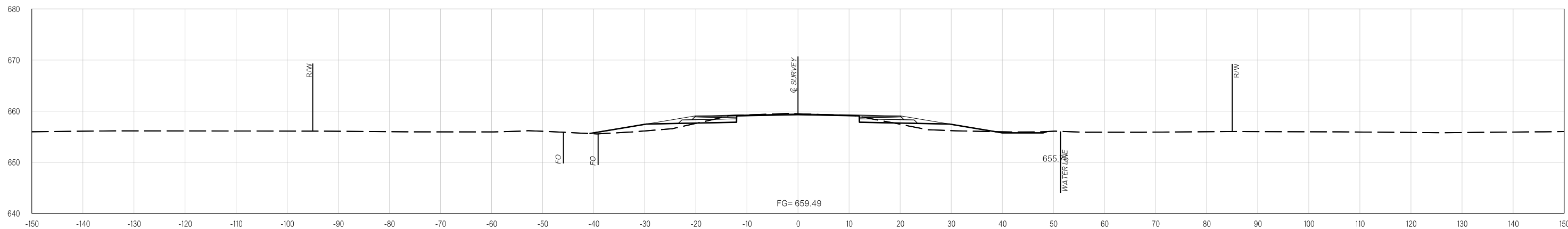
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1509+00.00



END PROJECT
1508+36.78



1508+00.00

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02-03-20