



P S O M A S

APPENDIX 1

TANGERINE ROAD 30% PRELIMINARY PLANS

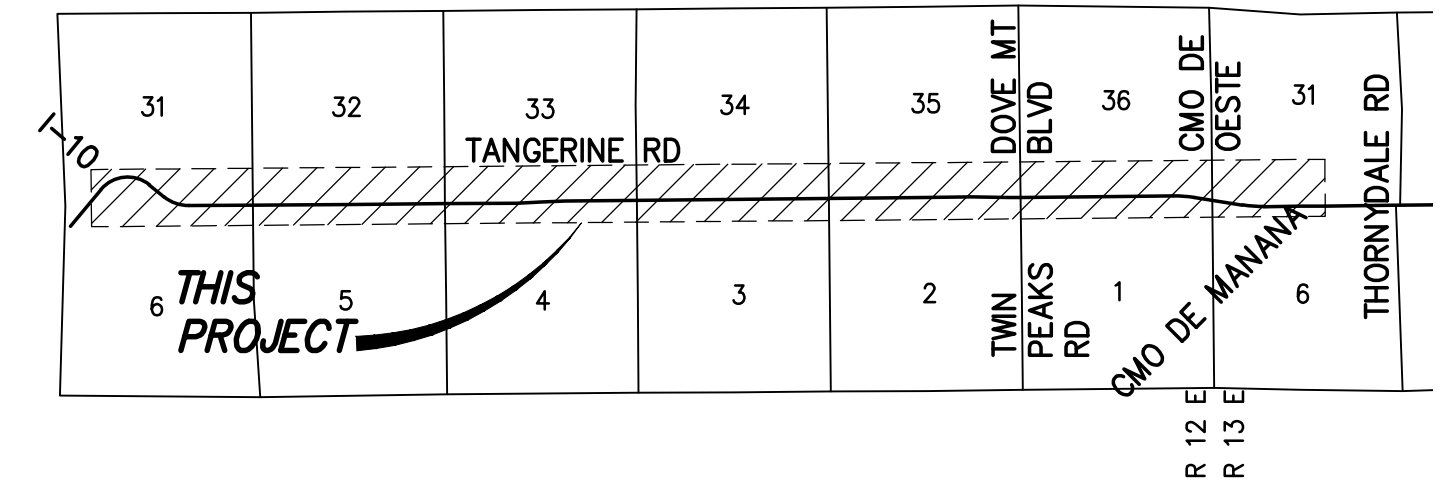
TANGERINE ROAD

I-10 TO THORNYDALE ROAD

ROADWAY AND DRAINAGE IMPROVEMENTS

PROPOSED CONSTRUCTION BEGINS EAST OF I-10 AND ENDS WEST OF THORNYDALE ROAD. THE 6.5 MILES OF NEW ROADWAY IMPROVEMENTS INCLUDE A FOUR LANE DIVIDED ROADWAY, MULTI-USE LANES, MEDIAN, MULTI-USE PATH, AND DRAINAGE IMPROVEMENTS.

T.O.M. PROJECT NO. 2005-061

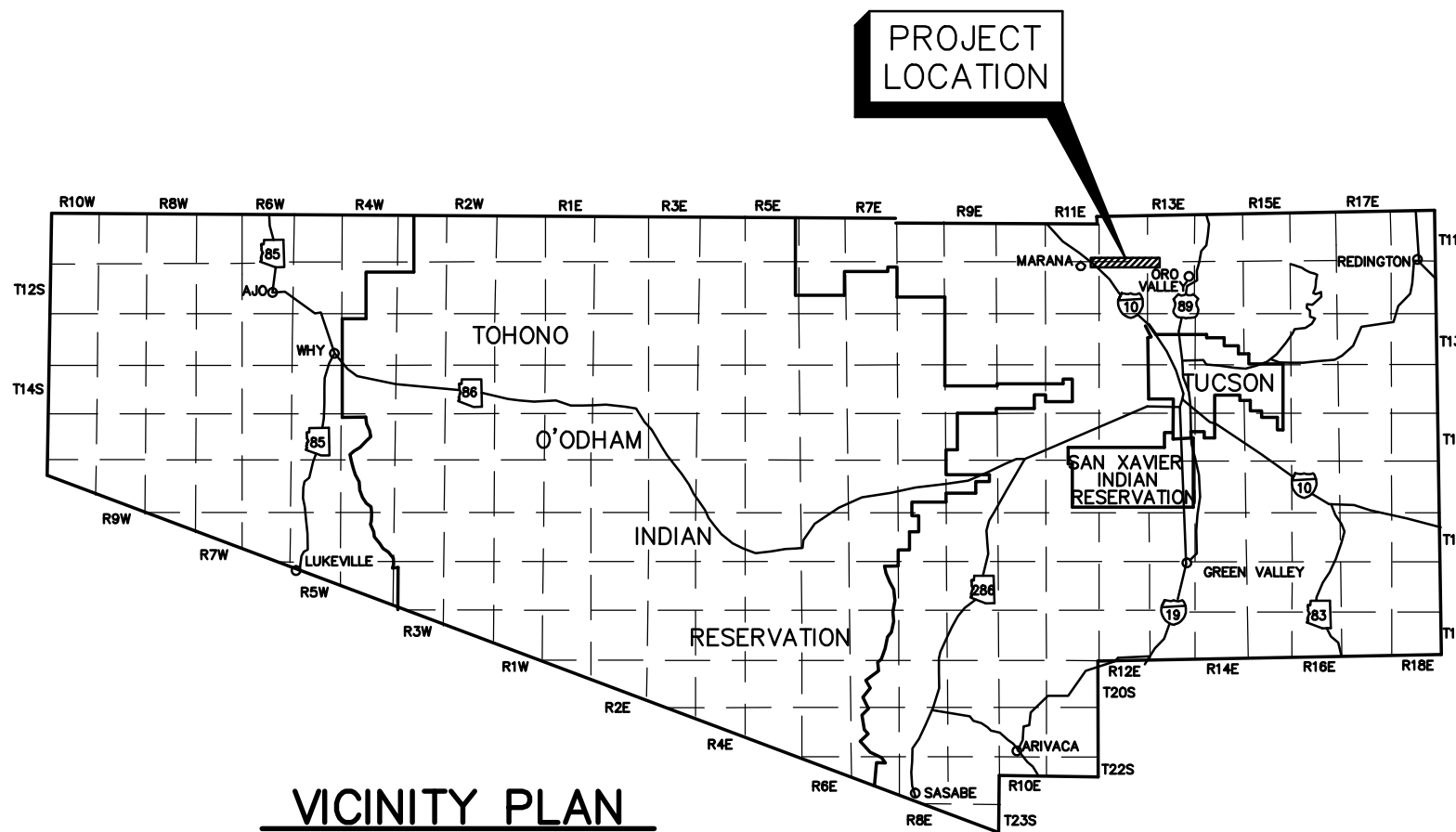


LOCATION PLAN

Sections 31-36 T-11-S, R-12-E, G and S R M
 Sections 1-6 T-12-S, R-12-E, G and S R M
 Section 31 T-11-S, R-13-E, G and S R M
 Section 6 T-12-S, R-13-E, G and S R M

Pima County, Arizona

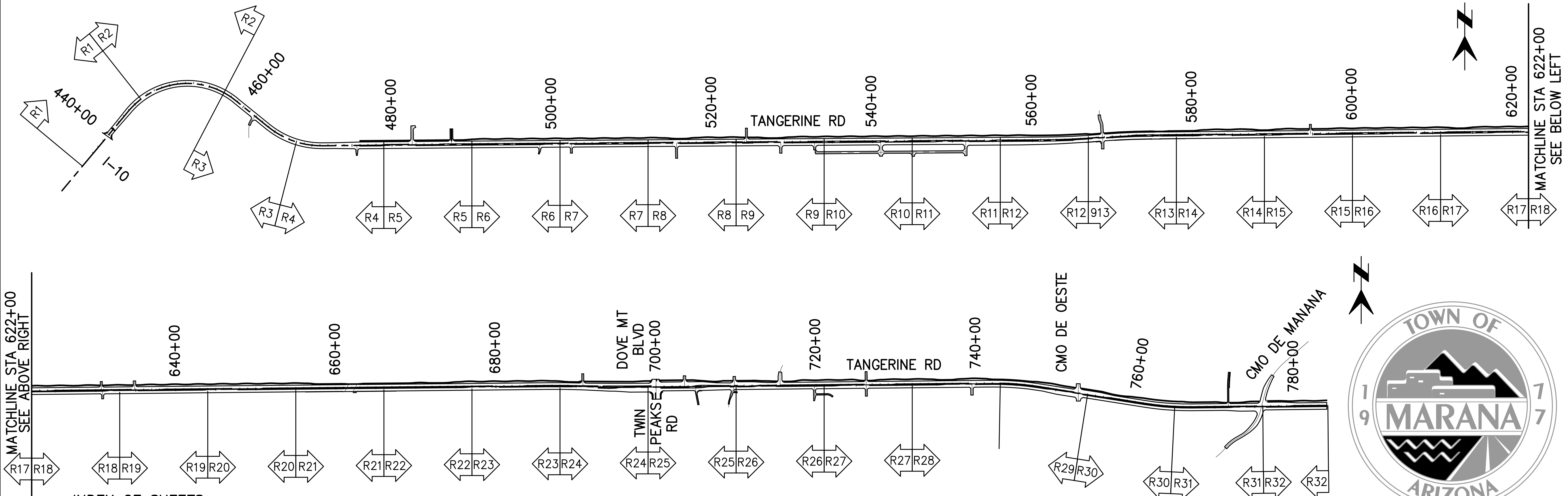
Scale: 1"=1 Mile



VICINITY PLAN

Sections 31-36 T-11-S, R-12-E, G and S R M
 Sections 1-6 T-12-S, R-12-E, G and S R M
 Section 31-35 T-11-S, R-13-E, G and S R M
 Section 2-6 T-12-S, R-13-E, G and S R M

Pima County, Arizona
 NTS



INDEX OF SHEETS

Page No.	Sheet No.	Sheet Description
1	CV 01	Cover Sheet
2	NT 01	General Notes Sheet
3	DS 01	Design Sheet
4-10	TY 01-07	Roadway Typical Section Sheets
11-17	HZ 01-07	Horizontal Control Sheets
18-49	RP 01-32	Roadway Plan Sheets
50-70	ST 01-21	Sidestreet Plan and Profile Sheets
71-109	DR 01-39	Drainage Plan and Profile Sheets
110-111	EC 01-02	Equestrian Crossing Plan and Profile Sheets
112-119	CH 01-08	Channel Plan and Profile Sheets
120-125	TH 01-06	Utility Test Hole Plan Sheets
126-143	PM 01-18	Pavement Marking Plan Sheets



UPC-2012-020

PSOMAS

333 E. Wetmore Road, Suite 450
 Tucson, AZ 85705
 (520) 292-2300 (520) 292-1290 fax
 www.psomas.com

NO.	REVIEWED BY	ENGINEER	DATE
NO.	AS BUILT	ENGINEER	DATE

30% PRELIMINARY NOT FOR CONSTRUCTION

<p>TOWN OF MARANA DEPARTMENT OF PUBLIC WORKS 11555 WEST CIVIC CENTER DRIVE MARANA, ARIZONA 85653</p>	
ACCEPTED:	
ORVILLE SALING DIRECTOR OF PUBLIC WORKS	DATE
KEITH BRANN, P.E. TOWN ENGINEER	DATE
SCALES: HORIZ. N/A VERT. N/A	SHEET CV01 OF CV01 PAGE 1 OF 143

GENERAL NOTES

- All materials, construction and workmanship shall conform to the Pima County/City of Tucson Standard Specifications and Details for Public Improvements, Edition of 2003 except as modified by current editions and or Town of Marana Standard Details (latest edition) and the Project's Contract Documents. In addition, the Contractor shall conform to the ADOT 2012 Construction Drawings (C-Series) and the ADOT 1992 Standard Drawings (B-Series) plus current revisions to either series.
- Utility locations shown on plans were compiled based on the best information available. Utility locations are not intended to be exact or complete. Prior to commencing construction, the Contractor shall verify the location of all utilities with the appropriate organizations. Contact "Blue Stake" at 1-800-782-5348 two full working days prior to beginning construction. Saturday and Sunday are not considered working days.
- Construction zone traffic control shall conform to the requirements of the "Manual on Uniform Traffic Control Devices", 2009 Edition, the project plans and the Project's Contract Documents.
- Right of way encroachments shall be removed only by direction of the Town of Marana, unless otherwise noted on the project plans or in the Project's Contract Documents.
- Removal of all cacti and native plants shall be in accordance with the provisions of the "Arizona Native Plant Law", A.R.S., Chapter 7 (A.R.S. Section 3-901, Et. Seq) and the Pima County Native Plant Preservation Ordinance.
- The Contractor shall comply with all applicable Occupational Safety and Health Administration regulations.
- The Contractor shall adjust all water meters valve boxes, storm drain manholes, sanitary sewer manholes and cleanout frames and covers to finish grade. Sanitary sewer manhole ring and cover adjustments are to be in accordance with Pima County/City of Tucson Standard Details for Public Improvements WWM304, WWM305 or WWM306 (as applicable) and WWM307. This cost of this work shall be considered as incidental to the other items of work, except when the Project's Bidding Schedule contains specific items
- The Contractor shall obtain all permits required by all governmental agencies unless specified otherwise in the Project's Contract Documents.
- Horizontal Control: This project utilizes the Arizona Coordinate System, 1983 (ACS 83), NAD83 (2007), international feet, and is located in the central zone. The control network was surveyed in Aug.-Sept., 2010 using Trimble GPS units utilizing static methods and incorporated the following National Geodetic Survey (NGS) control points:

Station	PID	
NN 05	CZ2414	* Primary Control point
NN 02	CZ2411	
NN 121	CZ2524	
NN 127	AI1932	

Surface coordinates and/or distances were computed from the ACS 83 coordinates by applying a project specific grid to a surface combined elevation and scale factor at a central point and subtracting a constant from the resulting coordinates:

$$NP\ LOC = (NP\ ACS83 - NCP\ ACS83) * CF + NCP\ ACS83 - KN$$

$$EP\ LOC = (EP\ ACS83 - ECP\ ACS83) * CF + ECP\ ACS83 - KE$$

Where NP LOC = Local North NP ACS83 = ACS 83 North
 NCP ACS83 = ACS 83 at Central Point
 EP LOC = Local East EP ACS83 = ACS 83 East
 ECP ACS83 = ACS 83 at Central Point

Combined Factor (CF) = 1.0001337921
 Constant (K) = N 500000.000, E 900000.000

N 519000.00 (ACS83) E 958000.00 (ACS83) *Central Point
 N 19000.00 (Local) E 58000.00 (Local)

The basis of bearing for this project is the north line of Northwest Quarter, Section 1, T12S, R12E, Between found monuments shown herein for the northwest corner and the north quarter corner of said section. said bearing being: North 89°25'27" East. The reference Meridian is ACS 83 Grid North.

Vertical Control: The vertical datum for this project is the North American Vertical Datum, 1988 (NAVD88). Pima County bench marks used for this project were:

Station	NGS / Pima CO. PID	Elevation	
NN 03	GPS0003	2666.30'	* Primary Control Point
NN 130	GPS0130	2788.48'	
TANG 36A	TNG036A	2627.34'	
TANG 44 Reset	TNG044	2423.42'	
TANG 46	TNG046	2350.75'	
TANG 48 Reset	TNG048	2281.62'	
TANG 51	TNG051	2188.79'	
TANG 55	TNG055	2070.53'	
THORNY 18	CFS0318	2374.84'	

Orthometric Heights (elevations) are derived from ellipsoid heights using a high resolution GEOID model, GEOID 09.

- Remove and relocate, as directed by the Engineer, all mailboxes, fences, gates, signs, posts, pipes, etc., within the right-of-way and construction easement areas. The cost of this work shall be considered as incidental to the other items of work, except when the Project's Bidding Schedule contains specific items on a unit basis.
- All permanent traffic control signing shall be supplied and installed by the Contractor.
- All permanent pavement striping and marking(s) shall be applied by the Contractor.
- Geotechnical information will be made available to prospective bidders upon request to the Town of Marana in writing. Geotechnical information so provided shall be for information purposes only and is not to be considered a part of the Project's Contract Documents. These Reports were prepared by Terracon Consultants, Inc., Terracon Consultants, Inc. Project No. 63105079 & Addendum 1, dated 21 September 2011 and 10 November 2011, respectively. The information was developed as accurately as possible by the methods utilized. Psomas, Inc. and the Town of Marana accepts no responsibility and makes no guarantees or warranties, expressed or implied, regarding the Geotechnical Reports referenced herein or for any conditions encountered which vary from information provided.

Psomas, Inc. and the Town of Marana assume no responsibility and neither guarantee nor warrant the results of any subsurface explorations, the conclusions reached, recommendations made, or any test results presented.

Psomas, Inc. and the Town of Marana assume no responsibility for the use of or conclusions reached by any prospective bidder utilizing the above referenced reports.

Prospective bidders' attention is directed to Section 102, entitled "BIDDING REQUIREMENTS AND CONDITIONS" of the Standard Specifications referenced in General Note No. 1 hereinabove.

- The Contractor's attention is directed to the Project's Contract Documents for detailed information regarding and relating to the disposition of salvaged material(s).
- Relocated fence shall be installed 1' inside right-of-way. The contractor shall coordinate and schedule fence removals and relocation with property owner(s) to maintain continuous protection of private property for livestock, etc.
- If the excavation will cross or be in conflict with a Southwest Gas (SWG) underground facility (within 10' of the HP gas facility) the excavator will call Southwest Gas to schedule a standby 24 hours prior to the excavation. Phone number (520) 794-6021.
- Prior to the scheduled standby the gas facility should be potholed and exposed in a careful and prudent manner as required by Arizona State Law (40-360.22) 2' on all sides of the facility for a positive identification, and to ensure proper required separation of all underground facilities.
- The SWG representative will make positive identification of the underground facility. The SWG representative will observe the excavation operation for the duration of the operation or until it has been determined that the equipment will no longer be in conflict or pose possible hazard to SWG facilities or the excavator/general public.
- The SWG representative will inspect the condition of the gas facility at the time of the excavation completion to ensure no damage to the gas facility has occurred as a result of the potholing or boring operations. As required by Arizona State Law (40-360.21), it is the excavator's responsibility to protect and support facilities. In the event there is damage to the facility, it is the responsibility of the excavator and the SWG representative to notify emergency resources 911 and SWG (800) 722-4277 for repairs of the facility.
- SWG has valves within the project area that may need to be protected and adjusted to the final grade. The contractor must contact SWG for adjusting valves at least two weeks prior to the start of construction by calling (520) 247-5250.
- SWG requires all tree placements have a minimum 8-foot clearance from the tree center line to existing gas facilities. SWG will only allow shrubs and bushes to be planted in the 8-foot clearance zones.

UTILITIES

Utility Company	Contact	Phone No.
Tucson Water	Edward Lopez	(520) 791-2666
Town of Marana Water	Ann Meaders	(520) 382-2500
Town of Oro Valley Water	David Ruiz	(520) 292-5000
Trico Electric Cooperative	Wesley Crane	(520) 744-2944 ext.1356
Tucson Electric Power	Debra Sykes	(520) 918-8766
Southwest Gas Corporation	Dominique Mitchell	(520) 794-6217
Pima County Wastewater	Souren Naradikian	(520) 740-6322
CenturyLink	Jamie Carroll	(520) 292-7484
Comcast	Mike Ginn	(520) 744-5477
T-Mobile	Ronda McDonnell	(480) 213-9556
Cricket	George Hice	(585) 926-8665
Verizon Wireless	David Buttiker	(480) 777-4316

SEWER NOTES

- All design standards, materials and workmanship for public sanitary sewers are to be in accordance with the latest edition of the Pima County Regional Wastewater Reclamation Department's (PCRWRD) Manual of Engineering Standards And Procedures and the Pima County / City of Tucson Standard Details and Specifications for Public Improvements. Said manuals are on file at the Pima County Regional Wastewater Reclamation Department offices at 201 N. Stone Avenue, 8th floor.
- The contractor shall verify locations and elevations of all existing utilities prior to any construction, call "Blue Stake" at 1-800-782-5348 a minimum of two (2) full working days prior to excavating.
- Existing pressure and abandoned sewer main locations will be identified and marked per City of Tucson / Pima County Standard Detail WMM 507.
- The contractor shall field verify existing sewer elevations and alignments prior to construction and implementation, verification may require pot-holing.
- City of Tucson / Pima County Standard Detail WMM 106 applies to this project.
- Immediately report any release of sewage, and/or any damage to or the dropping of debris into the public sanitary sewage conveyance system to either PCRWRD Field Engineering (520-740-2651) or PCRWRD Conveyance Division (520-443-6500). On weekends, holidays, or between 5:00 p.m. and 8:00 a.m., immediately call Central Control Room (CCR) at 520-443-6048 and request a PCRWRD representative to be dispatched to the site. Take immediate action to prevent or contain the sanitary sewage overflow (SSO) from the sewer system. The contractor shall be responsible for all costs to repair the system, for all expenses to mitigate the release and to disinfect the release areas and for any regulatory penalties levied on PCRWRD because the SSO entered a natural or constructed storm water drainage system. The contractor shall repair all damage as directed and approved by PCRWRD.
- House or business connection sewers (HCS or BCS) are not part of the public sanitary sewer conveyance system. Private connection sewers constructed prior to January 2006 are not required to be blue staked. Any HCS/BCS encountered during construction shall be protected, repaired, or rerouted, as the situation dictates (City of Tucson / Pima County Standard Detail WMM 404), at no expense to the property owner or the Pima County Regional Wastewater Reclamation Department.
- Sewer construction shall not commence until: (a) contractor has obtained a public sewer construction permit from Pima County Regional Wastewater Reclamation 520-740-6369 and (b) a pre-construction meeting with the assigned Pima County project inspector is scheduled, at least three (3) full working days prior to the start of sewer construction.
- It is the contractor's responsibility to adjust or reconstruct all sanitary sewer manholes to finished grade. All ring and cover adjustments are to be in accordance with City of Tucson / Pima County Standard Details WMM 304, WMM 305 or WMM 306 (as applicable), and WMM 307. While adjusting the manhole to finished grade it is the contractor's responsibility to ensure that rings and covers are cleaned of any and all attached materials (asphalt, concrete, etc.) And that any vent holes are open and clear of obstructions. If the frame and cover are damaged or cannot be completely cleaned a new frame and cover are to be put into place. Costs associated with these actions are the responsibility of the contractor. Refer to City of Tucson / Pima County Details WMM 213.0-214.2 for requirements for rings and covers.
- Contractor shall maintain access to all sanitary sewer manhole structures at all times.
- All landscaping located within ten (10) feet horizontally of the public sanitary sewer and manholes shall be in accordance with the planting guidelines contained within City of Tucson / Pima County Standard Detail WMM A-4.
- All landscaping within the public sewer easements shown hereon shall be in accordance with the planting guidelines contained within city of Tucson / Pima County Standard Detail WMM A-4.
- All Storm Water Pollution Prevention Plan (SWPPP) measures shall be installed so as to prevent all storm water, construction water, fuels, chemicals, or liquids to be directed into or onto any sanitary sewer facilities. Protection of sanitary sewer facilities shall be a part of the approved construction SWPPP and best management practices. Protection devices shall be installed and maintained around all potentially affected sanitary sewer facilities within the project limits. Additional measures shall include but not be limited to the use of rain stoppers and manhole covers as deemed necessary by PCRWRD.

DATE	DESIGNED:	DRAWN:	CHECKED:	PROJ. ENG.:
12/12	CZ	CZ	AA	AA
12/12				
12/12				

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

30% PRELIMINARY NOT FOR CONSTRUCTION

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 (520) 292-2300 (520) 292-1290 fax
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GENERAL NOTES FOR
TANGERINE ROAD
 TANGERINE ROAD



LENGTH OF PROJECT

Tangerine Road Sta 439+74.11 to 784+00.00 = 34,425.89'
Gross & Net Length = 6.52 Miles

DESIGN DATA

Tangerine Road
Roadway Classification = Arterial
Dove Mountain Blvd / Twin Peaks Road
Roadway Classification = Collector
Camino De Oeste
Roadway Classification = Collector
Camino De Manana
Roadway Classification = Collector

Road	Design Speed	Posted Speed
Tangerine Road, Sta 439+74.11 to Sta 476+00	40 mph	40 mph
Tangerine Road, Sta 476+00 to Sta 784+00	55 mph	50 mph
Dove Mountain Blvd/Twin Peaks Road	50 mph	45 mph
Camino De Oeste	50 mph	45 mph
Camino De Manana	35 mph	35 mph
Other Side Streets	25 mph	25 mph

Design Vehicle:

Tangerine Road Mainlane = WB-62
Sidestreets = WB-40
U Turns = P

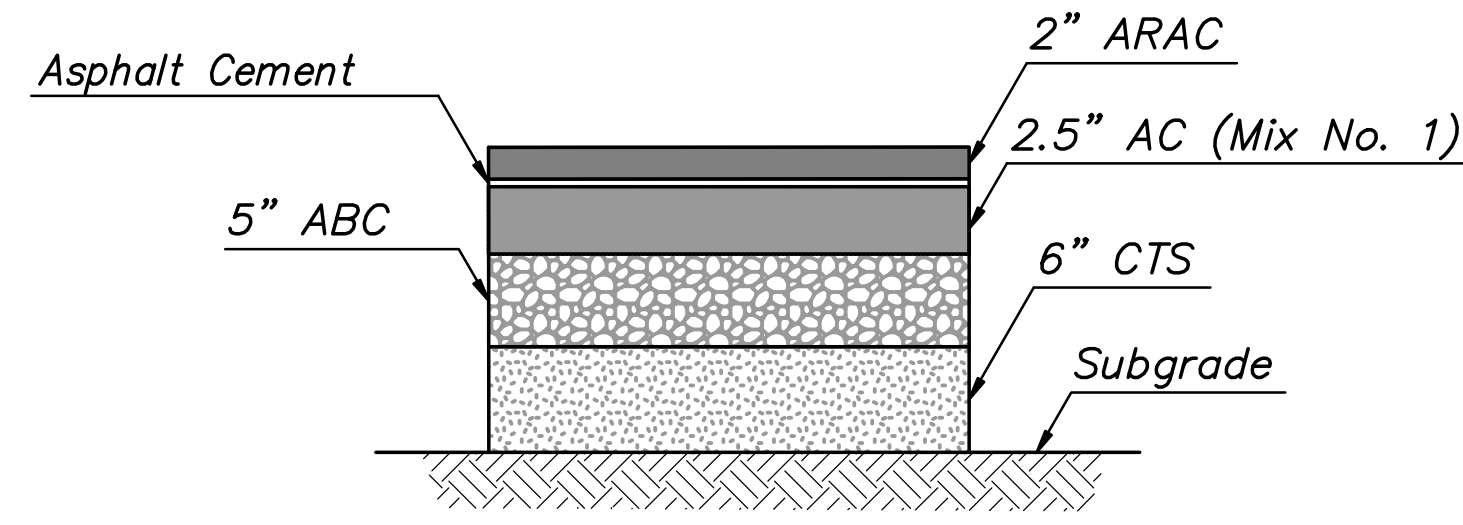
EARTHWORK QUANTITIES

Roadway Excavation	72,820 CY
20% Shrink	(14,564) CY
Drainage Excavation	16,977 CY
10% Shrink	(1,698) CY
* Pipe Excavation	3,927 CY
10% Shrink	(393) CY
Structural Excavation	9,668 CY
10% Shrink	(967) CY
Roadway Emb (Incl. Grnd. Comp.)	551,257 CY
* Pipe Backfill	3,850 CY
Structural Backfill	3,784 CY
Training Berm	7,411 CY
Borrow (In Place)	475,501 CY

* The quantity is calculated and shown for informational purposes only.

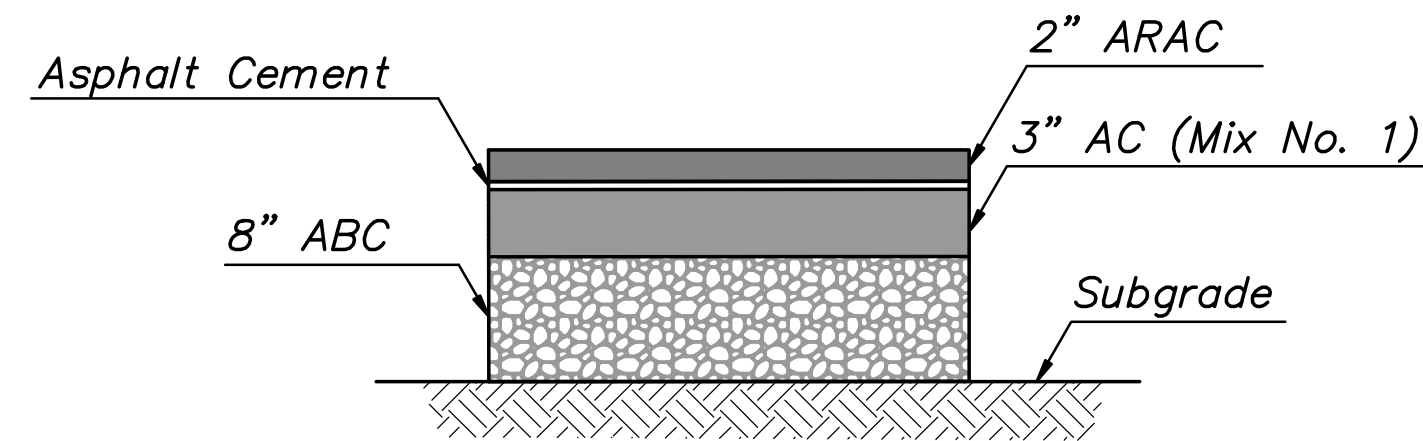
EARTHWORK FACTORS

Station	Shrink	Ground Compaction
Begin Project to Sta 488+93	20%	0.20'
Sta 488+93 to Sta 784+00	10%	0.20'



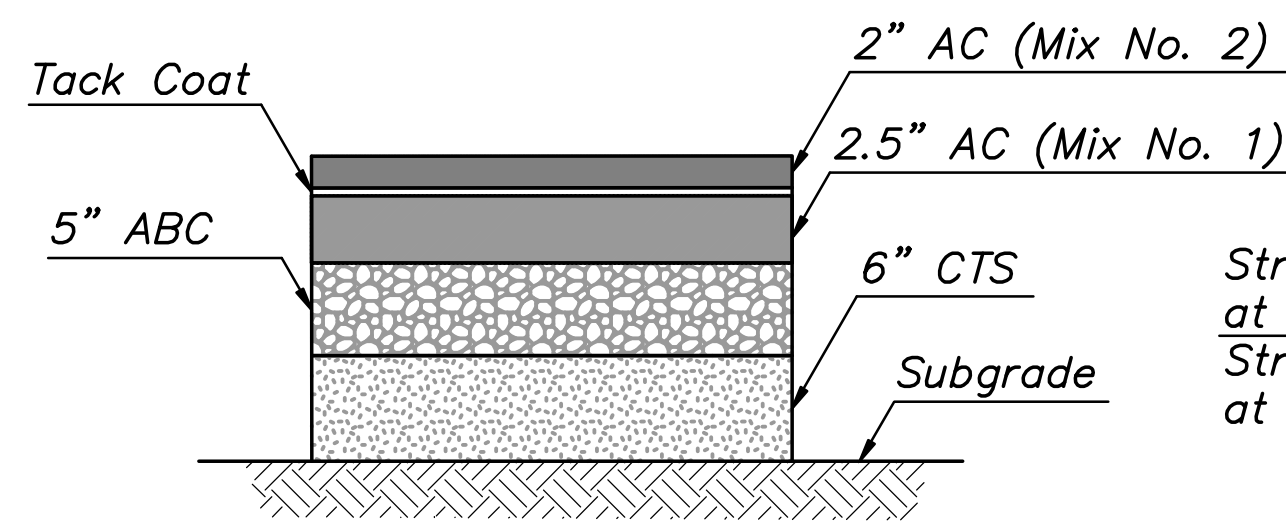
Total Thickness = 15.5"
STRUCTURAL SECTION NO. 1

Tangerine Road
Begin Project to Sta 488+93.59



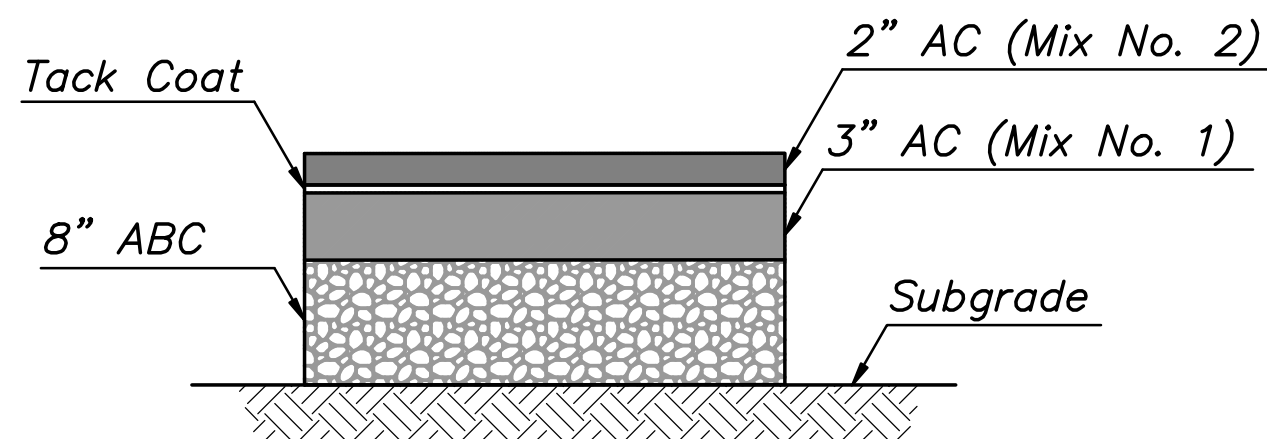
Total Thickness = 13"
STRUCTURAL SECTION NO. 2

Tangerine Road
Sta 488+93.59 to Sta 784+00.00



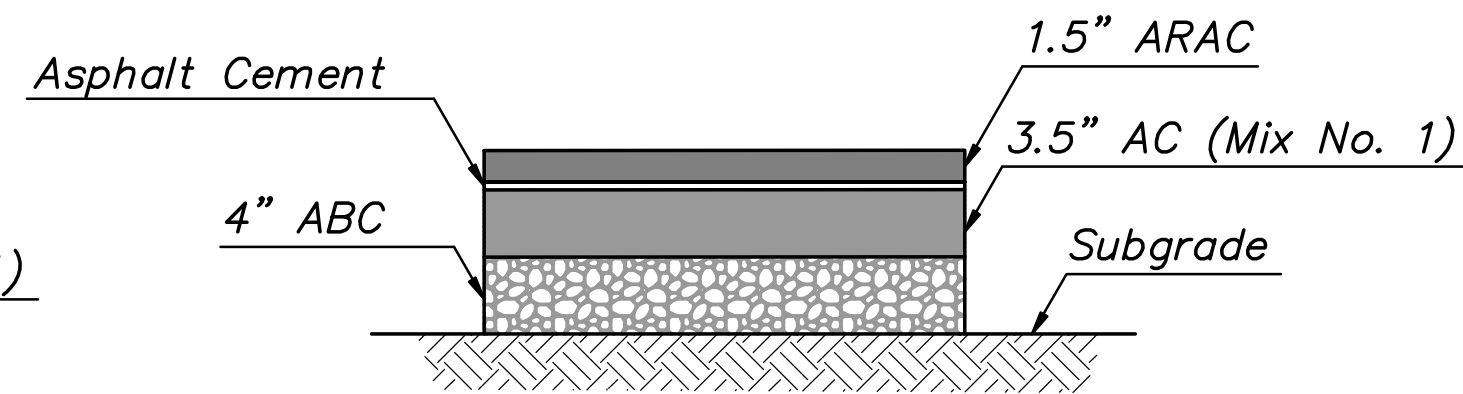
Total Thickness = 15.5"
STRUCTURAL SECTION NO. 3

Tangerine Road Turn Lanes
Begin Project to Sta 488+93.59



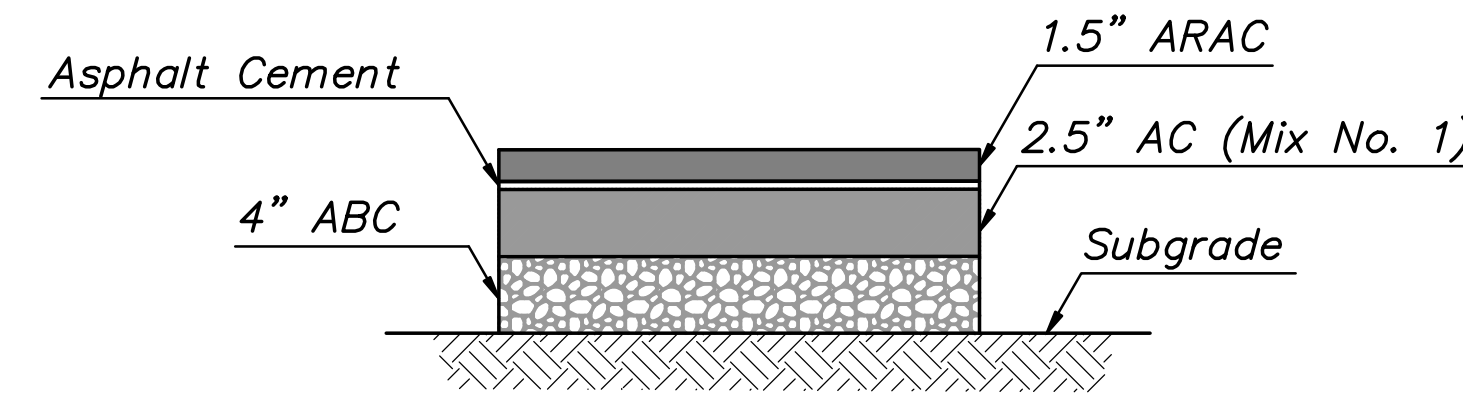
Total Thickness = 13"
STRUCTURAL SECTION NO. 4

Tangerine Road Turn Lanes
Sta 488+93.59 to Sta 784+00.00



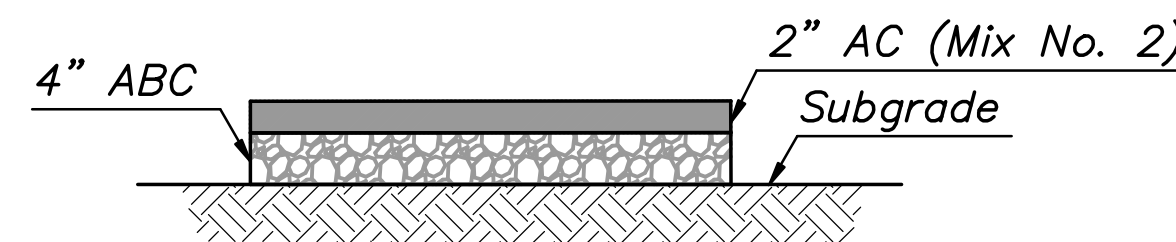
Total Thickness = 9"
STRUCTURAL SECTION NO. 5

Dove Mountain Blvd/Twin Peaks Road



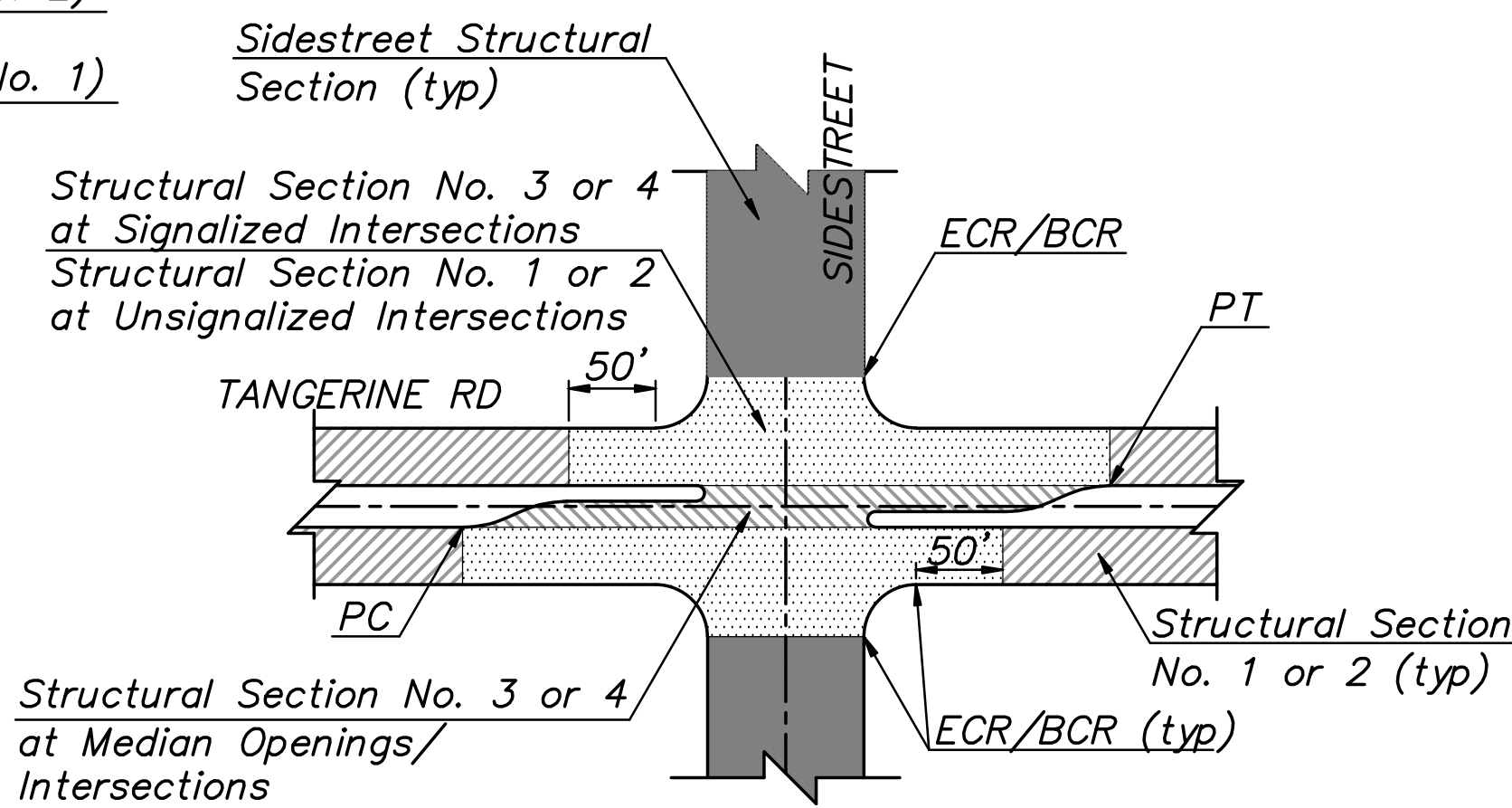
Total Thickness = 8"
STRUCTURAL SECTION NO. 6

Camino De Oeste
Camino De Manana



Total Thickness = 6"
STRUCTURAL SECTION NO. 7

Turnouts/ Driveways
Asphalt Multi-Use Pathway



PAVEMENT STRUCTURAL SECTION AT MEDIAN OPENINGS AND INTERSECTIONS

SIDE STREET PAVEMENT SECTION TRANSITION DETAIL

- Tangerine Road Pvmt Section
- Side Street Pvmt Section

LEGEND

(NOT INCLUDED IN PC/COT STD DTL 100)

NEW

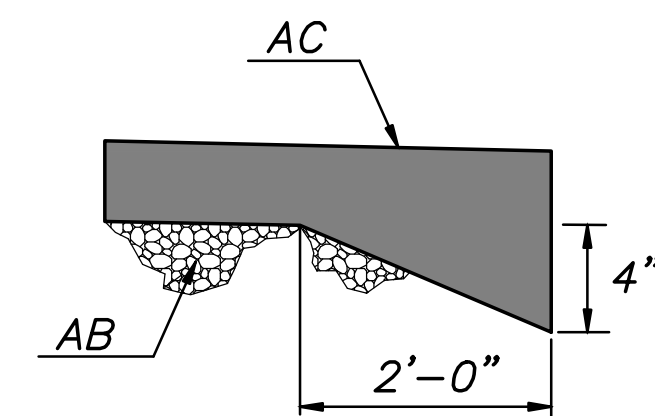
- New Pavement
- New Concrete
- New Riprap
- Remove Existing Pavement

EXISTING

- Concrete Header
- Pavement Spot Elevation
- Mapped Utility Location
- Blue Stake Utility Location
- Sanitary Sewer Manhole
- Gravity Sanitary Sewer
- Force Main Sanitary Sewer
- Water Main
- Manhole
- Storm Drain
- Fiber Optic
- Electric Line
- Overhead Electric
- Utility Pole
- Light Pole
- Traffic Signal Box
- Street Light Box
- Underground Telephone Line
- Telephone Pedestal
- Natural Gas Line
- Gas Line Marker
- Irrigation Line
- Irrigation Valve
- Sign
- Pipe/Cross Culvert Reference Number
- Reinforced Concrete Box Culvert Reference Number

ABBREVIATIONS
(NOT INCLUDED IN PC/COT STD DTL 100)

- PVMT Pavement
- EXST Existing
- M.U.P. Multi-Use Path



THICKENED PVMT EDGE
All Uncurbed Sections
(Inside and Outside Pavement Edges)



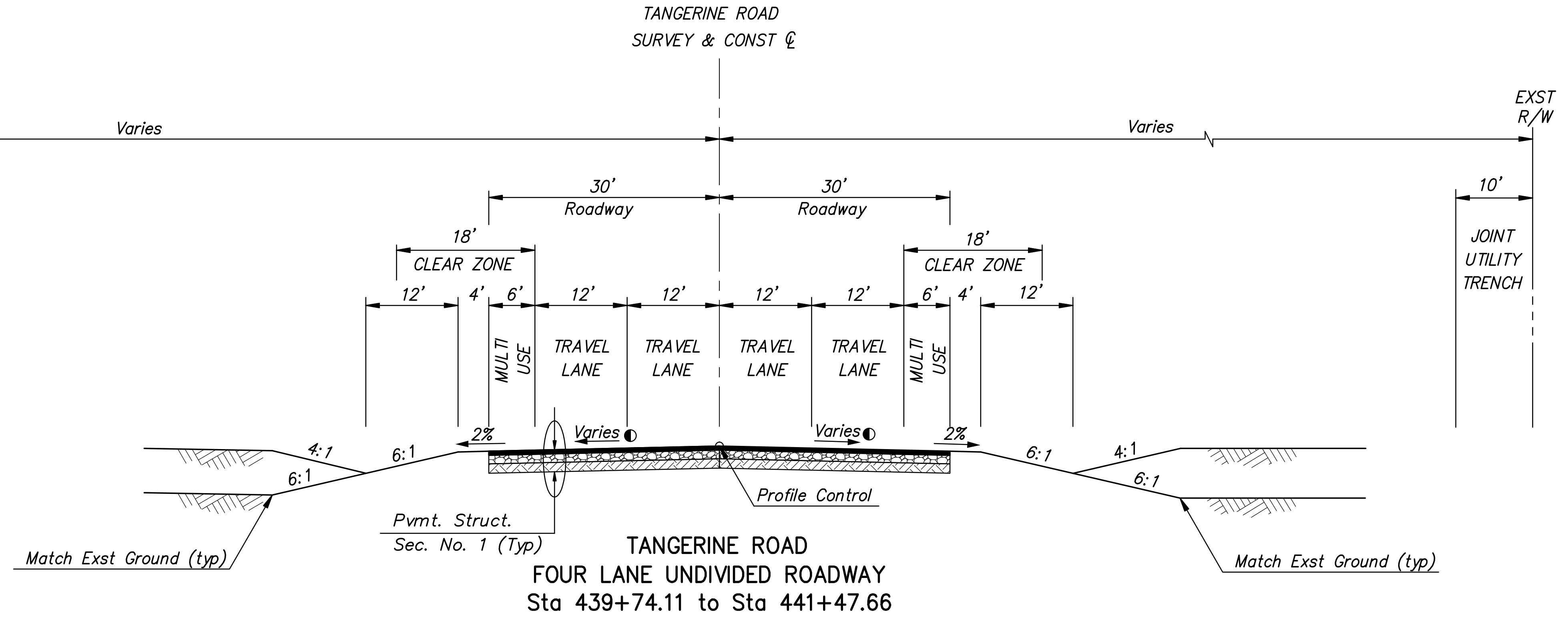
DATE	DESIGNED:	DRAWN:	CHECKED:	PROJ. ENG.:
12/12	CZ	CZ	AA	AA
12/12				
12/12				

NO.	REVISION DESCRIPTION	DIV.	ENGINEER	DATE

30% PRELIMINARY NOT FOR CONSTRUCTION

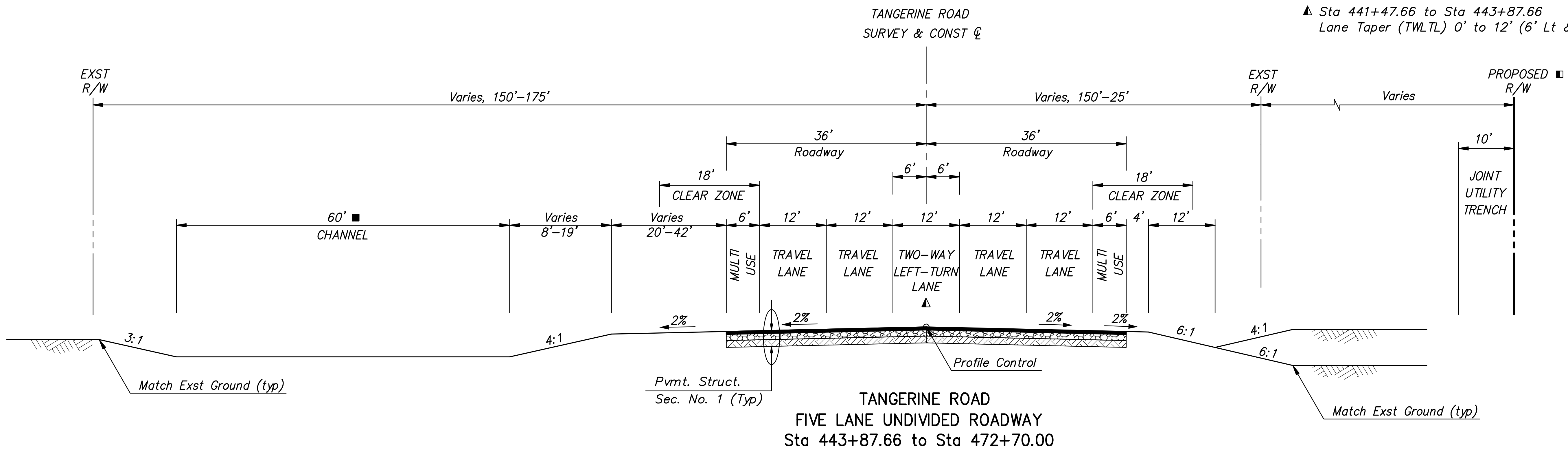
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TOWN OF MARANA - PROJECT NO. 2005-061
DESIGN SHEETS FOR TANGERINE ROAD TANGERINE ROAD
PAGE 3 OF 143



TANGERINE ROAD
 FOUR LANE UNDIVIDED ROADWAY
 Sta 439+74.11 to Sta 441+47.66

- See Right-of-Way Plans & Roadway Plans for New Right-of-Way Locations.
- See Roadway Plans for Cross Slopes.
- For Additional Information, See Channel Plans.
- ▲ Sta 441+47.66 to Sta 443+87.66 Lane Taper (TWLTL) 0' to 12' (6' Lt & 6' Rt)



TANGERINE ROAD
 FIVE LANE UNDIVIDED ROADWAY
 Sta 443+87.66 to Sta 472+70.00



TOWN OF MARANA - PROJECT NO. 2005-061

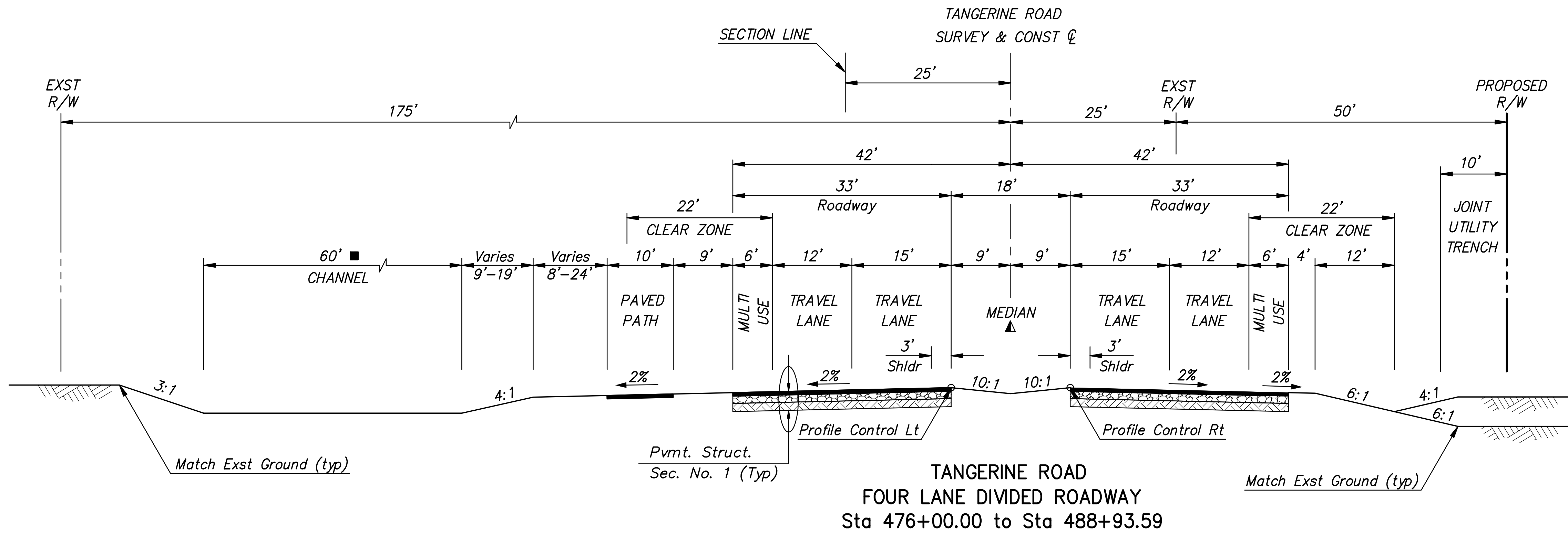
TYPICAL SECTIONS FOR TANGERINE ROAD TANGERINE ROAD

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 (520) 292-2300 (520) 292-1290 fax
 www.psomars.com

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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE
DESIGNED:	CZ		12/12
DRAWN:	CZ		12/12
CHECKED:	AA		12/12
PROJ. ENG.:	AA		12/12

T:\217MAG00401\BIBLIC_WORKS\Sheets\TypicalSections\C-160101.dwg, T:_Inst_Swartz_Mon_04_Feb_2013_Ev_Cheggara.dwg, Monday, February 04, 2013, 10:38:00 AM



* Sta 490+00.00 to 492+00.00,
Lt Cross Slope Transition from 2% to 1.5%
Rt Cross Slope Transition from 2% to 2.5%

▲ Sta 472+70.00 to Sta 476+00.00
Median Taper, 12' to 18'
(6' Lt & Rt to 9' Lt & Rt)

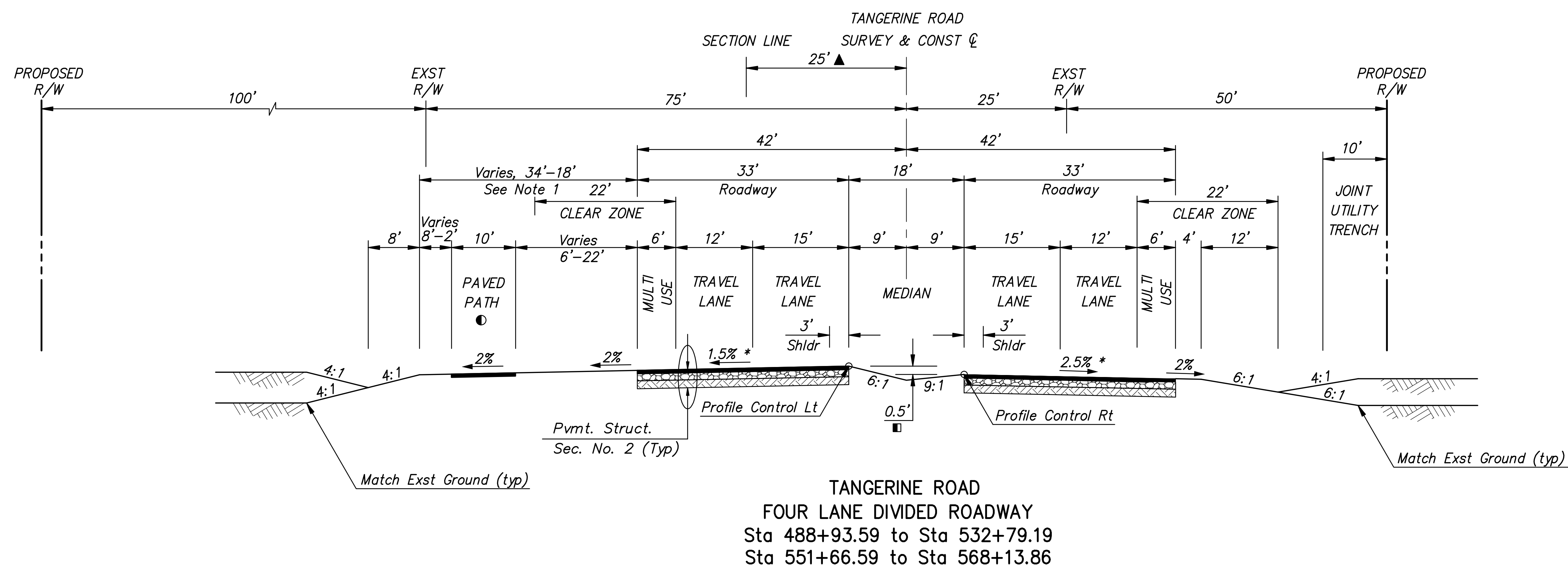
▲ Sta 488+93.59 to 561+54.16, 25'
Sta 561+54.16 to 568+13.86, 25'-0'

■ Sta 490+00.00 to 492+00.00,
Vertical Difference Between Lt and Rt
Profile Control Transition from 0 to 0.5'

■ Sta 487+90.00 to 489+90.00
Transition 60' to 20'
Sta 489+90.00 to 498+00.00, 20'
Sta 498+00.00 to 499+50.00
Transition 20' to 5'
Sta 499+50.00 to 503+50.00, 5'
For Additional Information
See Channel Plans

● Path Meanders within Shoulder

1. Shoulder Transitions to 18' over
RCBC Structures.

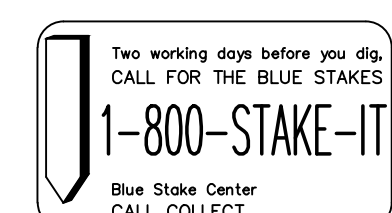


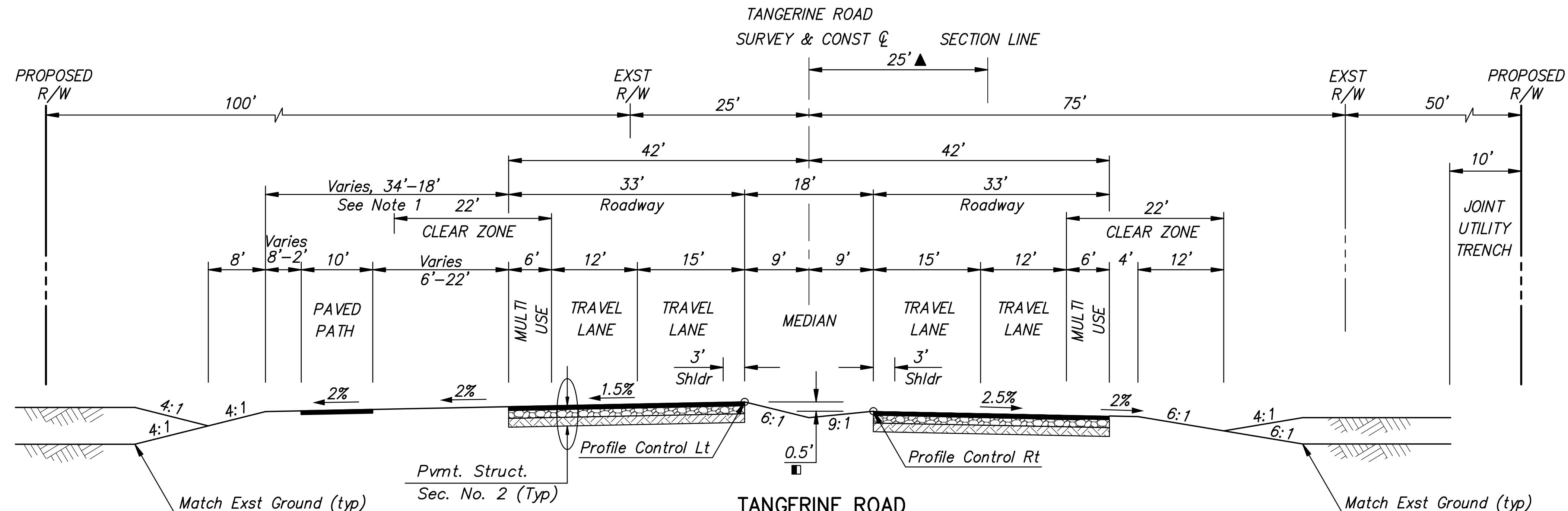
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE
DESIGNED:	CZ		12/12
DRAWN:	CZ		12/12
CHECKED:	AA		12/12
PROJ. ENG.:	AA		12/12

**30%
PRELIMINARY
NOT FOR
CONSTRUCTION**

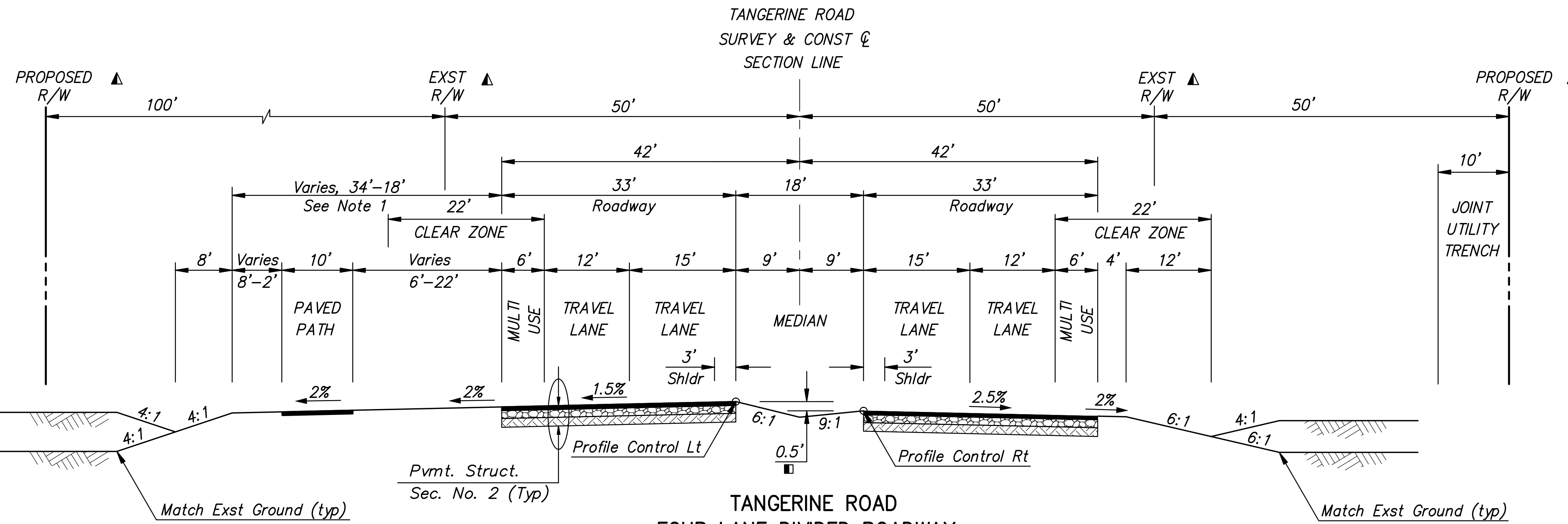
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TOWN OF MARANA - PROJECT NO. 2005-061
TYPICAL SECTIONS
FOR
TANGERINE ROAD
TANGERINE ROAD





TANGERINE ROAD
 FOUR LANE DIVIDED ROADWAY
 Sta 568+13.86 to Sta 571+00.00
 Sta 580+00.00 to Sta 657+00.00
 LT Sta 666+50.00 to Sta 686+50.64
 RT Sta 668+00.00 to Sta 686+50.64



TANGERINE ROAD
 FOUR LANE DIVIDED ROADWAY
 Sta 709+27.37 to Sta 784+00.00

- ▲ Right-of-Way Location Shown is Typical. For Accurate Information, See Record of Survey and Roadway Plans.
- ▲ Sta 568+13.86 to 574+73.67, 0'-25'
 Sta 574+73.67 to 686+50.64, 25'
 Sta 686+50.64 to 696+75.44, 25'-0'
 Sta 696+75.44 to 742+00.89, 0'
 Sta 742+00.89 to 767+10.26, Varies
 Sta 767+10.26 to 784+00.00, 0'
- Vertical Difference Between Lt and Rt Profile Control

1. Shoulder Transitions to 18' over RCBC Structures. See Roadway Plans

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

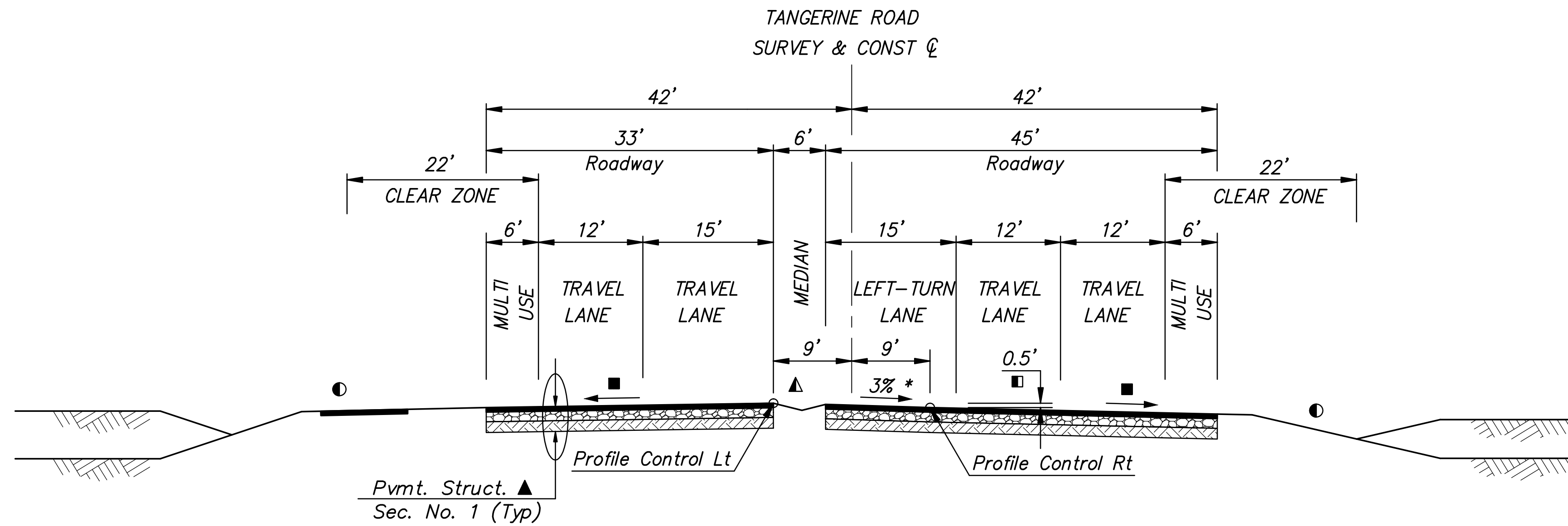
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 (520) 292-2500 (520) 292-1290 fax
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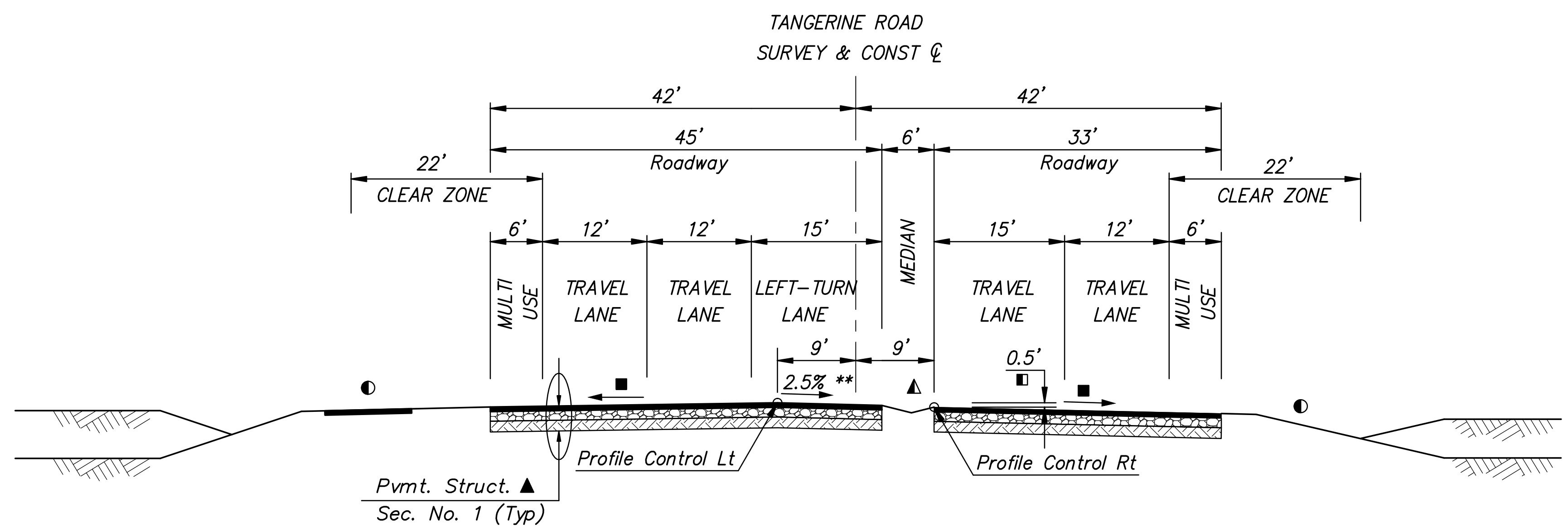
TYPICAL SECTIONS FOR TANGERINE ROAD
 TANGERINE ROAD

TOWN OF MARANA - PROJECT NO. 2005-061

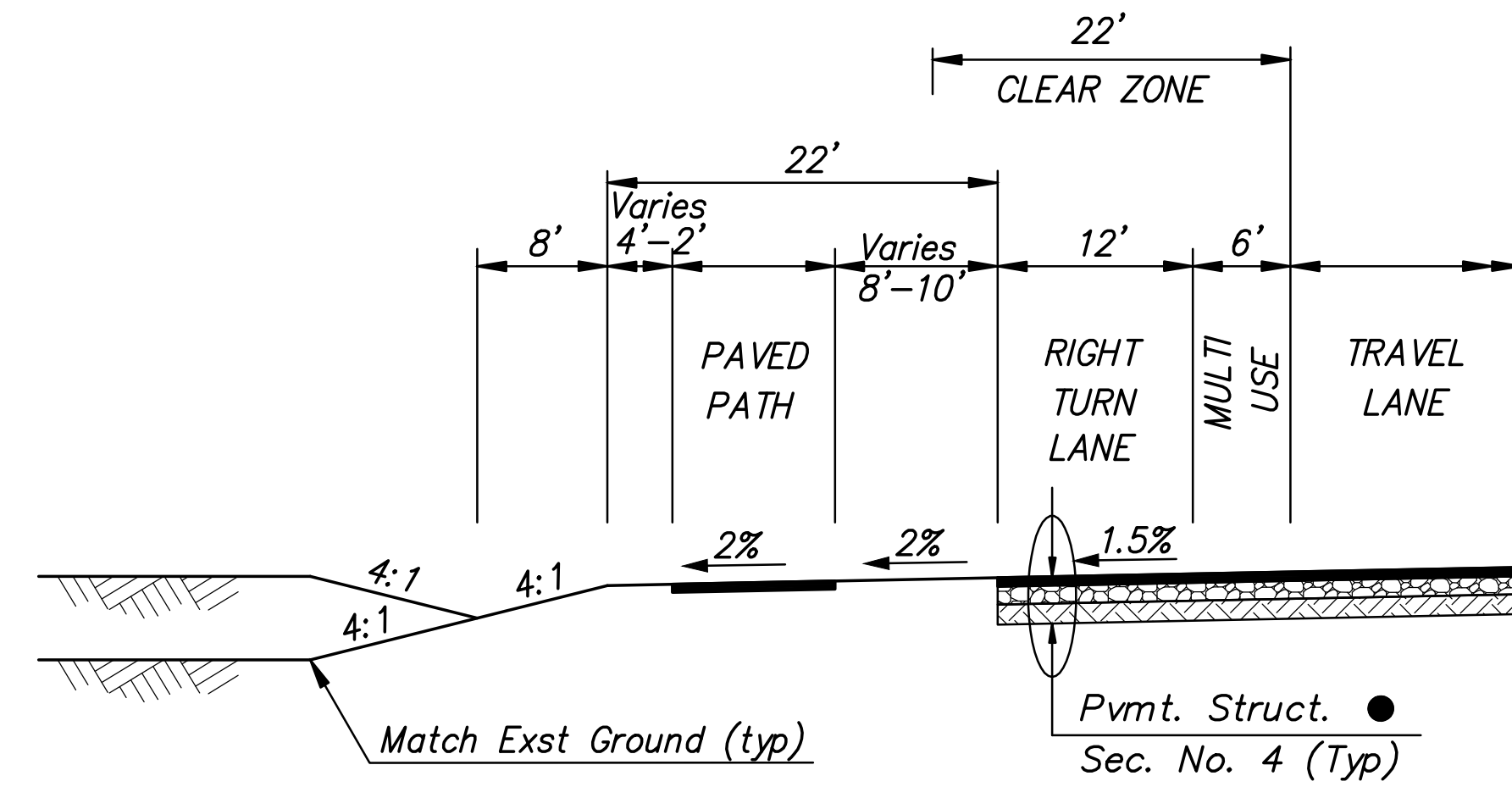




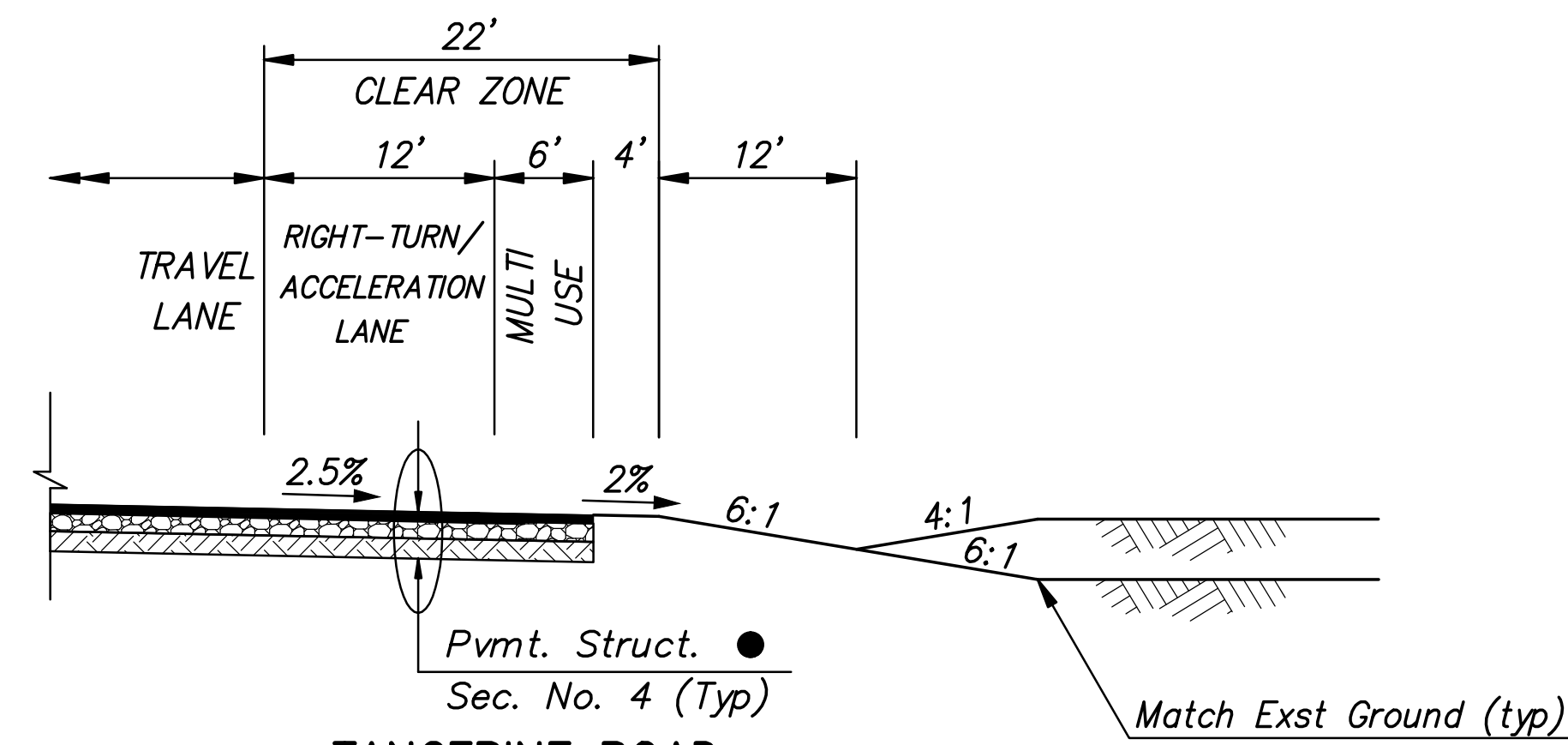
TANGERINE ROAD
TYPICAL EASTBOUND SINGLE LEFT-TURN



TANGERINE ROAD
TYPICAL WESTBOUND SINGLE LEFT-TURN

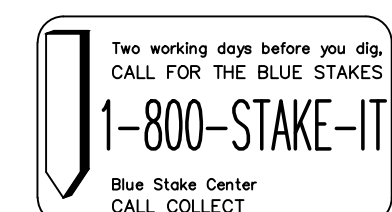


TANGERINE ROAD
WESTBOUND RIGHT-TURN LANE



TANGERINE ROAD
EASTBOUND RIGHT-TURN LANE
EASTBOUND ACCELERATION LANE

- ▲ Swale
- Refer to Four-lane Divided Roadway Typical Sections for Roadside Configuration at Different Locations.
- ▲ Pavement Structural Sec. No. 2
Sta 488+93.59 to Sta 784+00.00
- Sta 476+00.00 to 490+00.00
Vertical Difference Between Lt and Rt Profile Control, 0'
Sta 490+00.00 to 492+00.00,
Vertical Difference Between Lt and Rt Profile Control Transition from 0' to 0.5'
Sta 492+00.00 to 784+00.00
Vertical Difference Between Lt and Rt Profile Control, 0.5'
- Pavement Structural Section No. 4 Applies to Left-Turn Lanes, Right-Turn Lanes, and Acceleration Lane Only
- Sta 476+00.00 to 490+00.00
Lt & Rt Cross Slope, 2%
Sta 490+00.00 to 492+00.00
Lt Cross Slope Transition from 2% to 1.5%
Rt Cross Slope Transition from 2% to 2.5%
Sta 490+00.00 to 784+00.00
Lt Cross Slope, 1.5%
Rt Cross Slope, 2.5%
- * Sta 476+00.00 to 490+00.00, 1%
Sta 490+00.00 to 784+00.00, 3%
- ** Sta 476+00.00 to 490+00.00, 1% towards Lt
Sta 490+00.00 to 784+00.00, 2.5% towards Rt



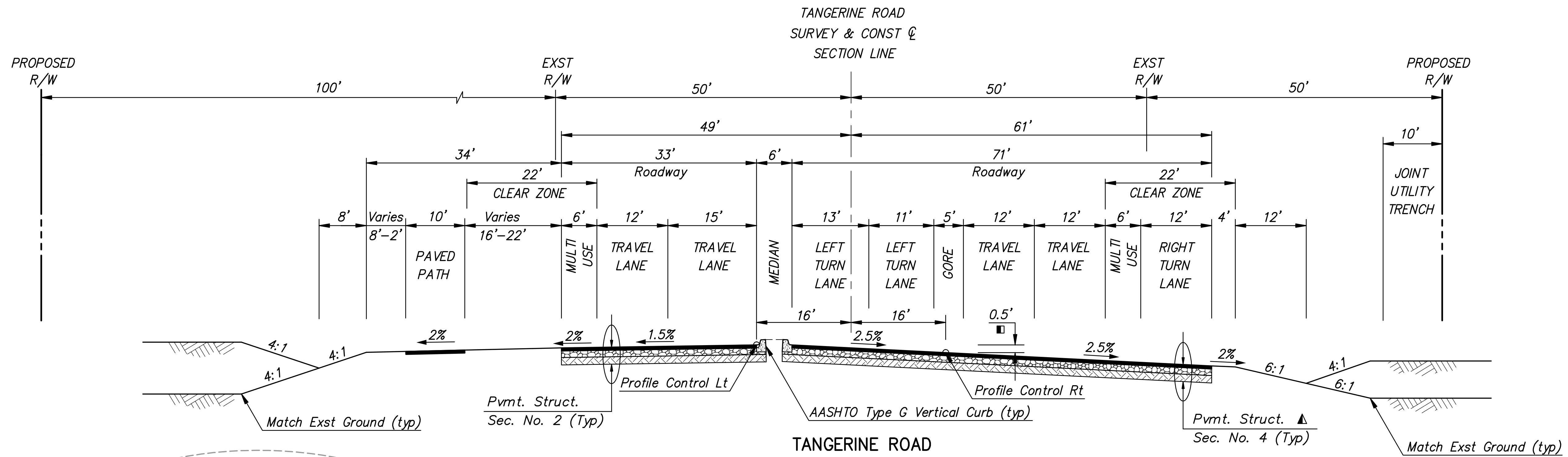
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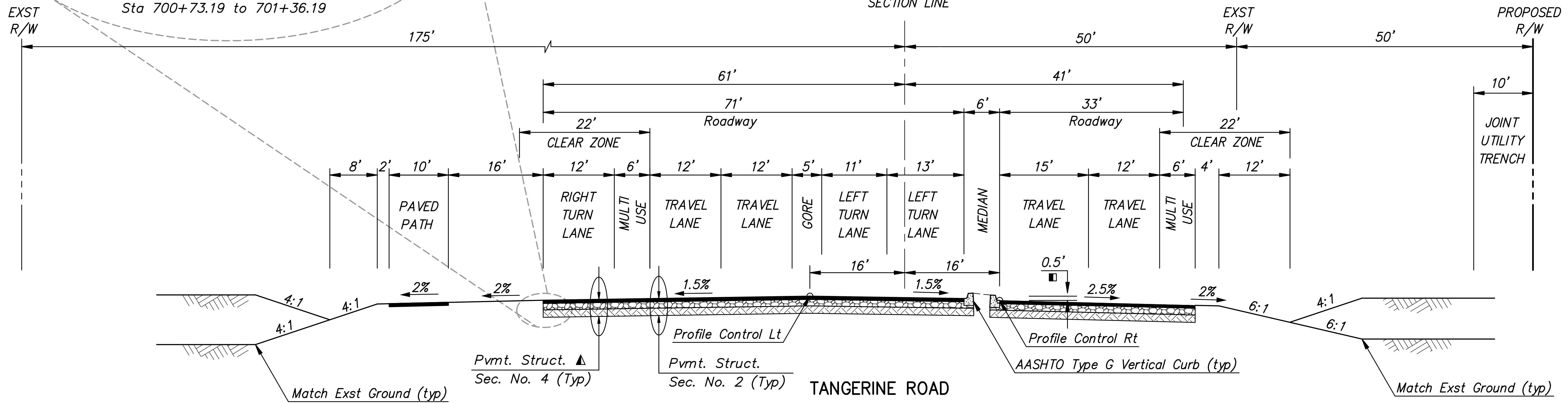
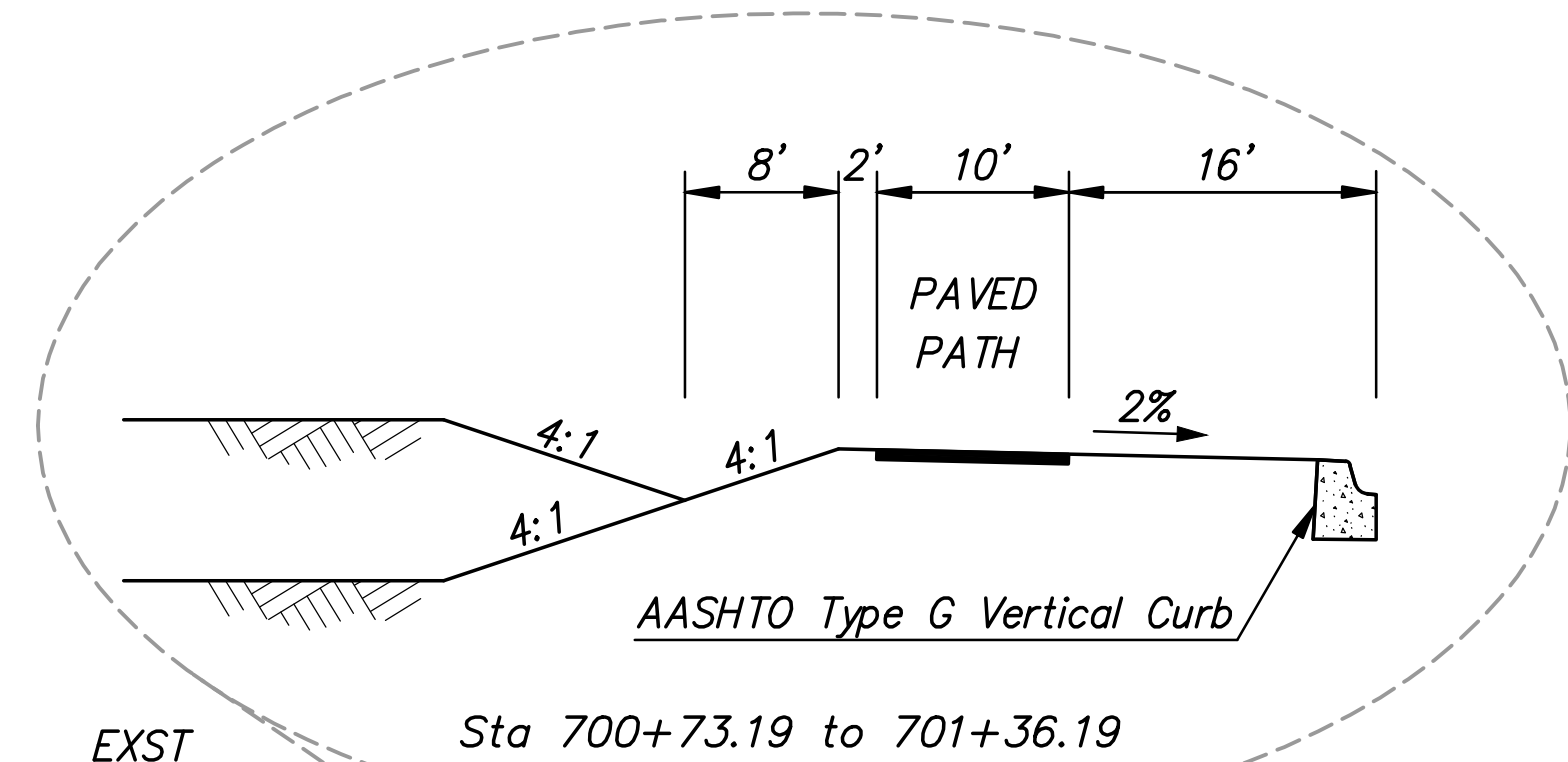
TOWN OF MARANA - PROJECT NO. 2005-061
TYPICAL SECTIONS
FOR
TANGERINE ROAD
TANGERINE ROAD



TANGERINE ROAD
 EASTBOUND DUAL LEFT-TURN
 AT DOVE MOUNTAIN BLVD
 STA 696+75.44 TO STA 699+15.47

▲ Pavement Structural Section No. 4
 Applies to Left-Turn and Right-Turn
 Lanes Only.

■ Vertical Difference Between Lt and Rt
 Profile Control



TANGERINE ROAD
 WESTBOUND DUAL LEFT-TURN
 AT DOVE MOUNTAIN BLVD
 STA 700+73.19 TO STA 703+27.37

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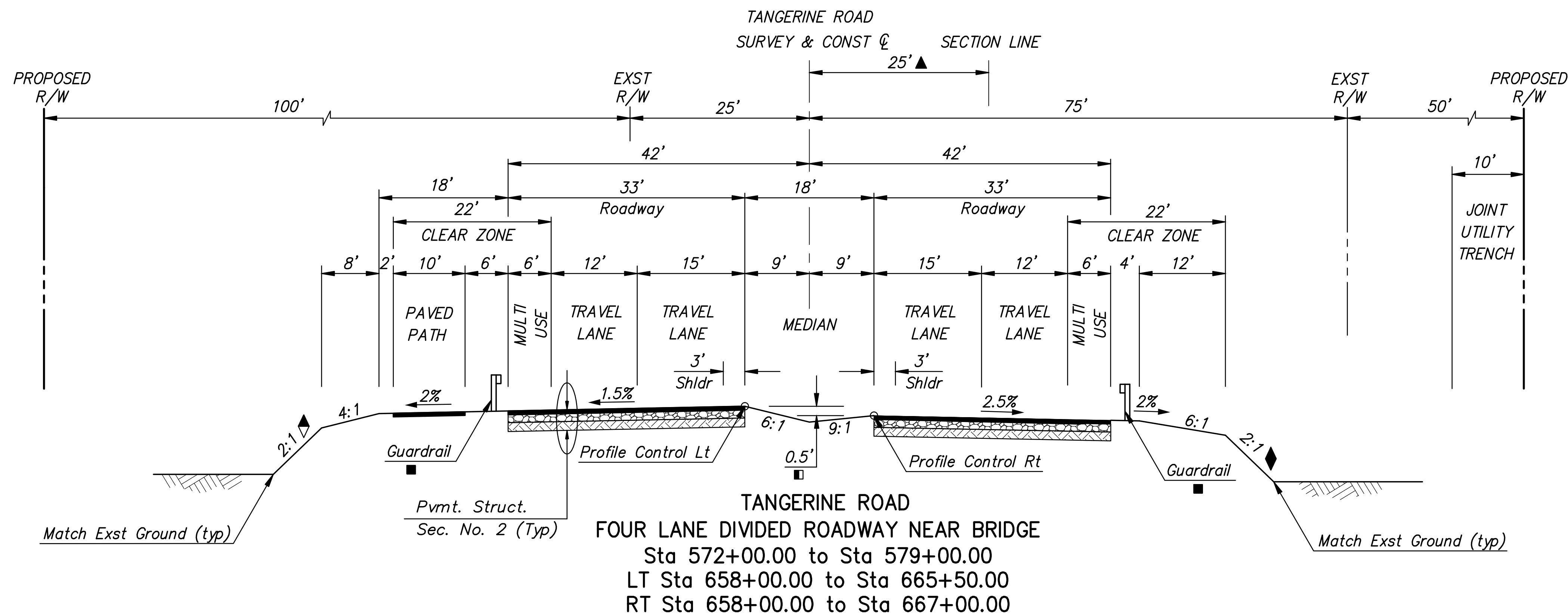
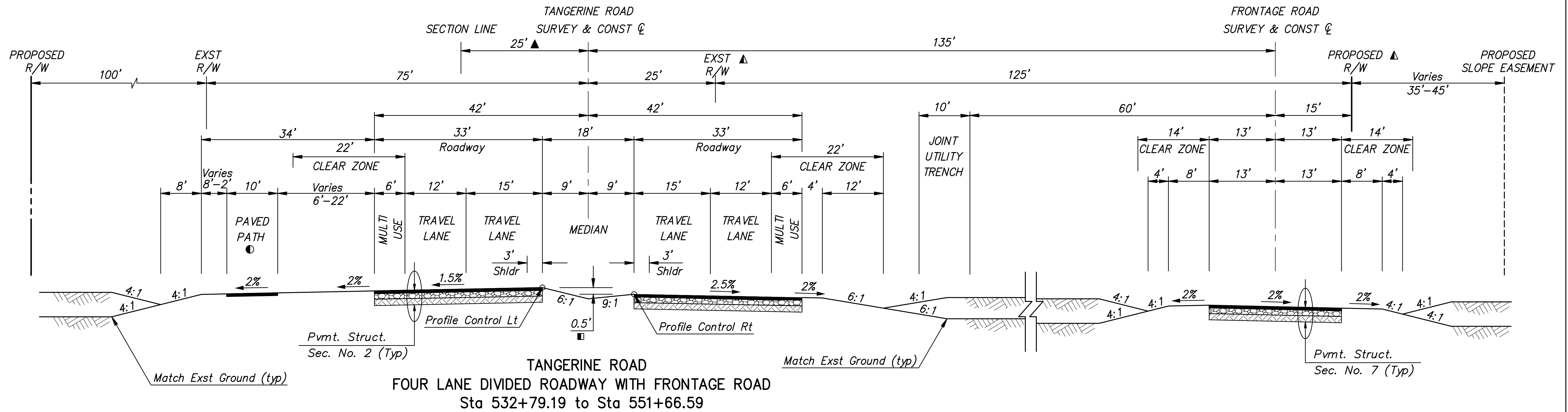
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TOWN OF MARANA - PROJECT NO. 2005-061
 TYPICAL SECTIONS
 FOR
TANGERINE ROAD
 TANGERINE ROAD



- Path Meanders within Shoulder. See Roadway Plans.
- ▲ Right-of-Way Location Shown is Typical. For Accurate Information, See Record of Survey and Roadway Plans.
- ▲ Sta 568+13.86 to 574+73.67, 0'-25'
- Vertical Difference Between Lt and Rt Profile Control
- For Additional Information See Roadway Plans
- ◆ Sta 571+00.00 to 572+00.00
Sta 657+00.00 to 658+00.00
Transition 4:1 to 2:1
Sta 579+00.00 to 580+00.00
Sta 665+50.00 to 666+50.00
Transition 2:1 to 4:1
- ◆ Sta 571+00.00 to 572+00.00
Sta 657+00.00 to 658+00.00
Transition 6:1 to 2:1
Sta 579+00.00 to 580+00.00
Sta 667+00.00 to 668+00.00
Transition 2:1 to 6:1

DATE	12/12
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

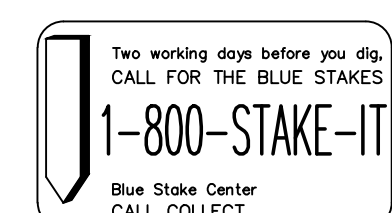
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

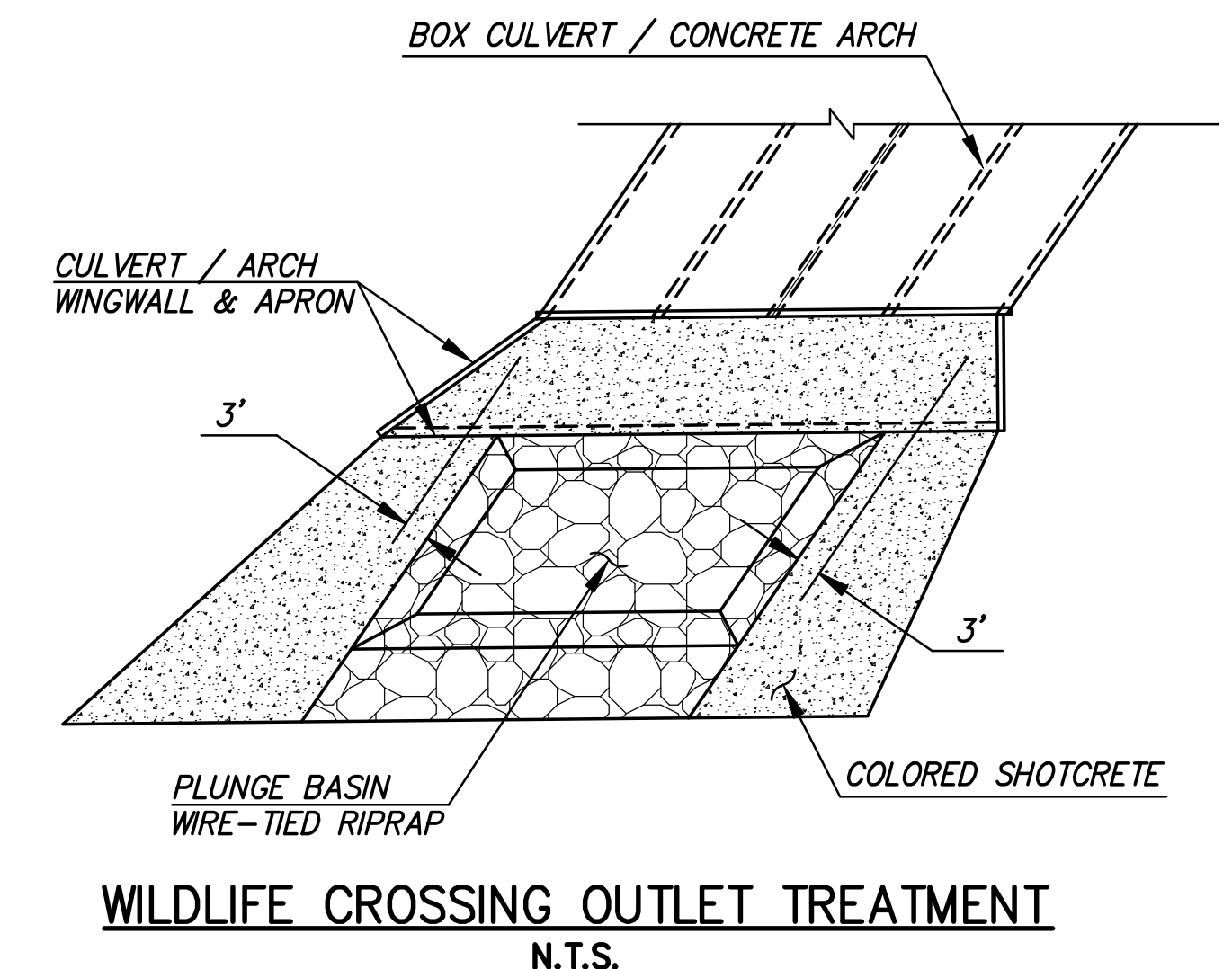
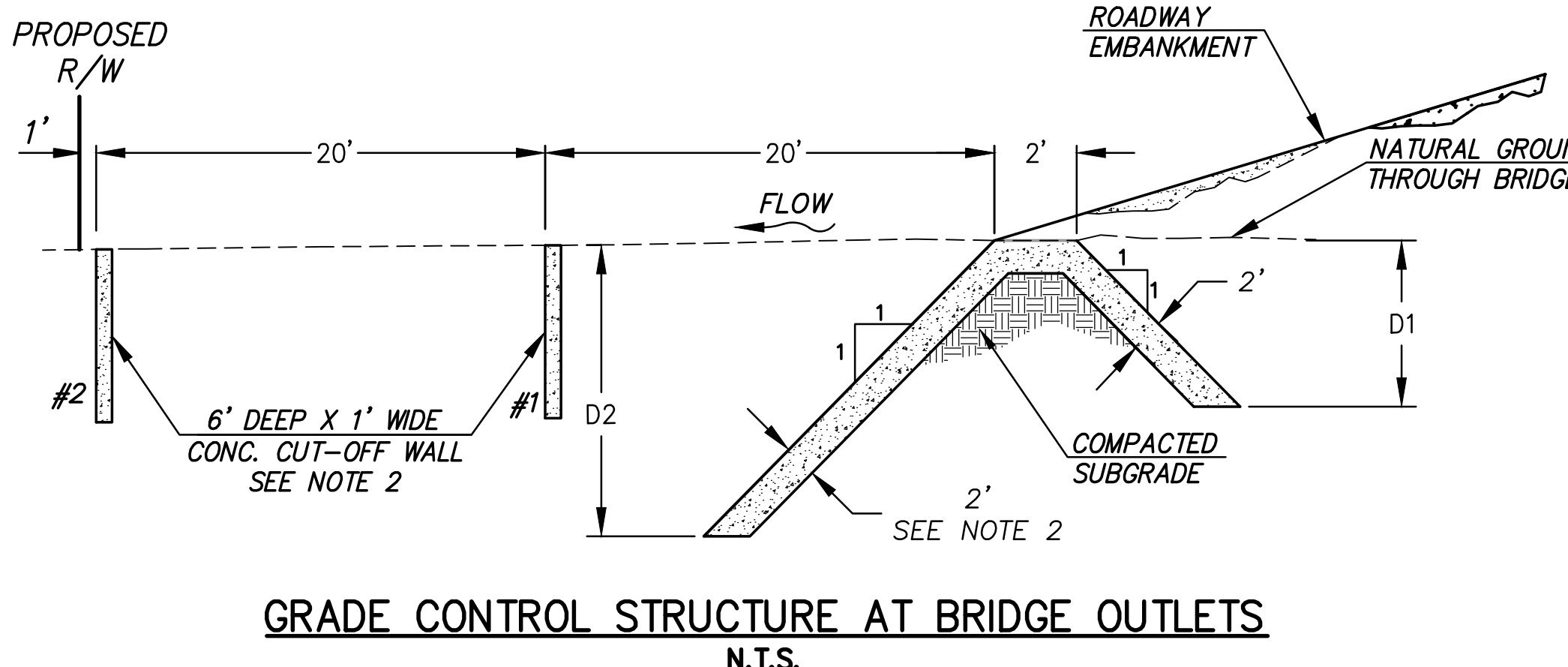
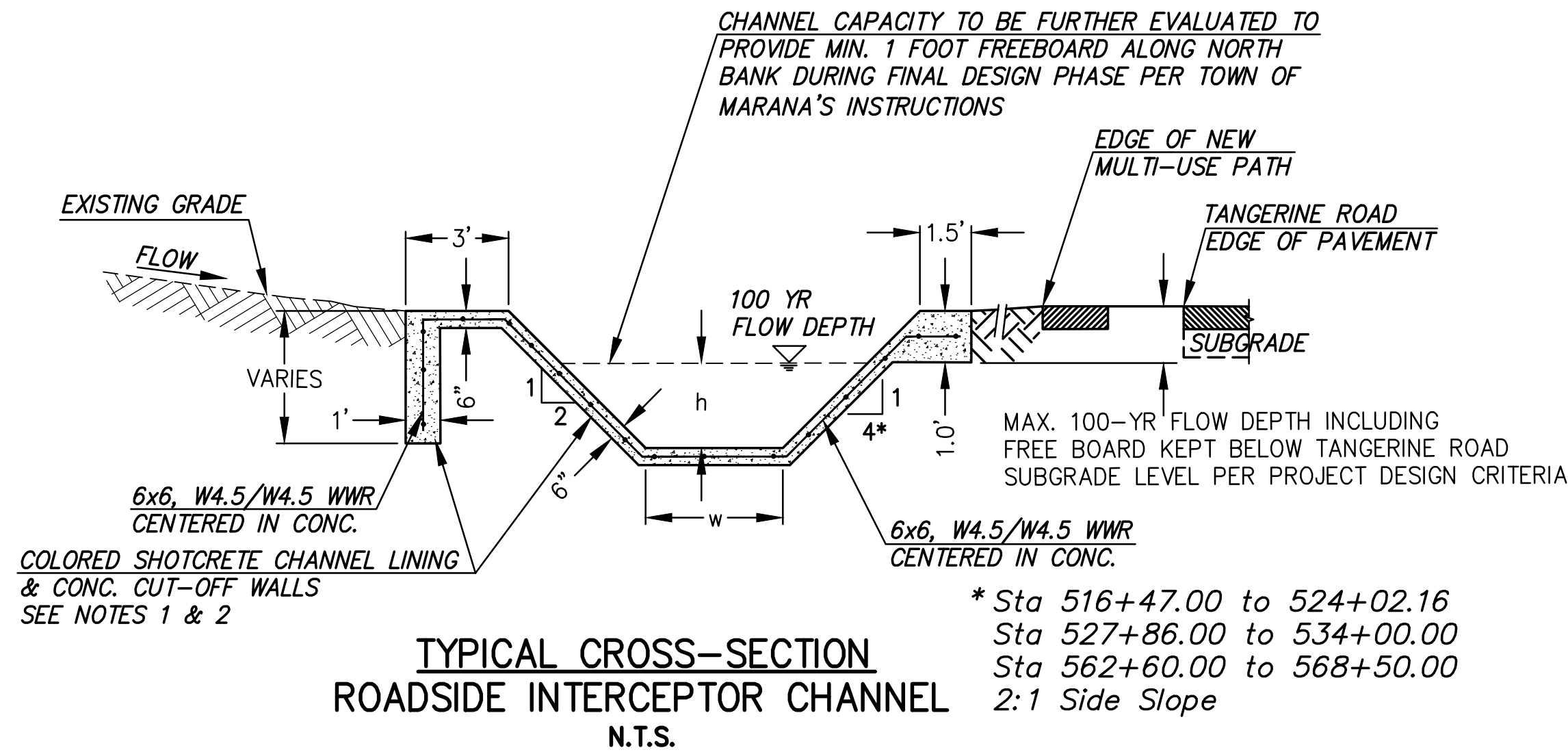
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TYPICAL SECTIONS FOR
TANGERINE ROAD
TANGERINE ROAD

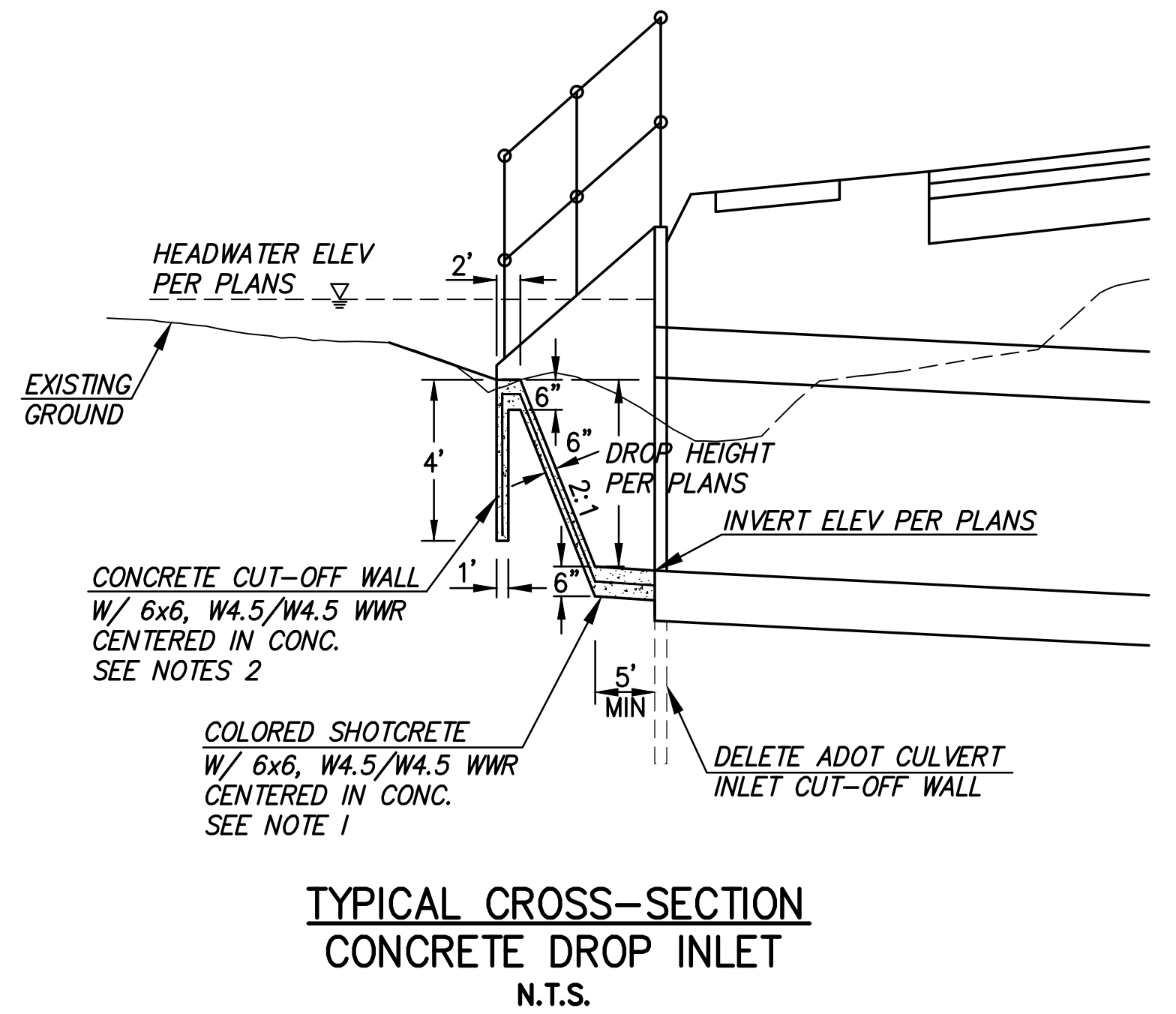
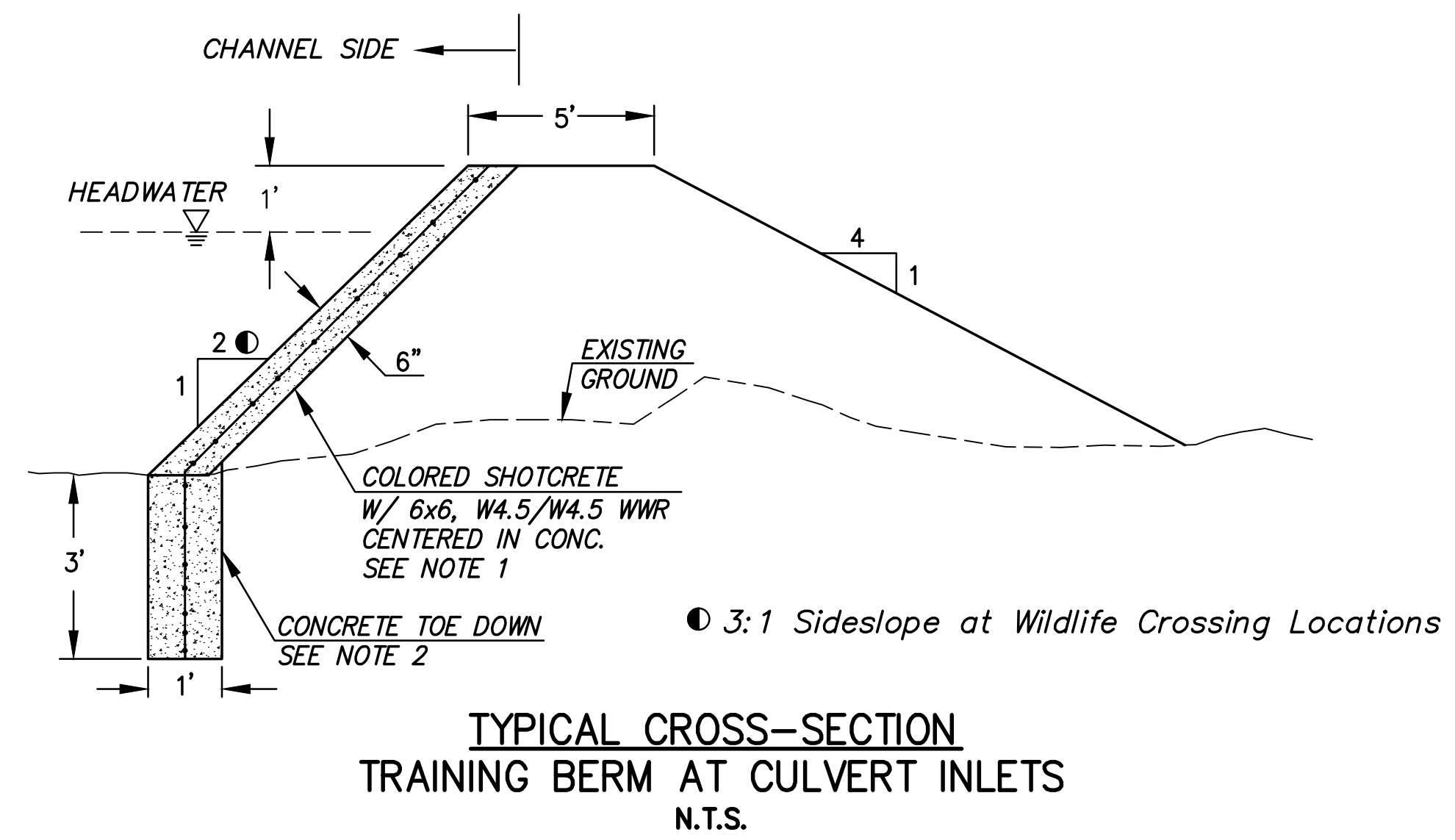
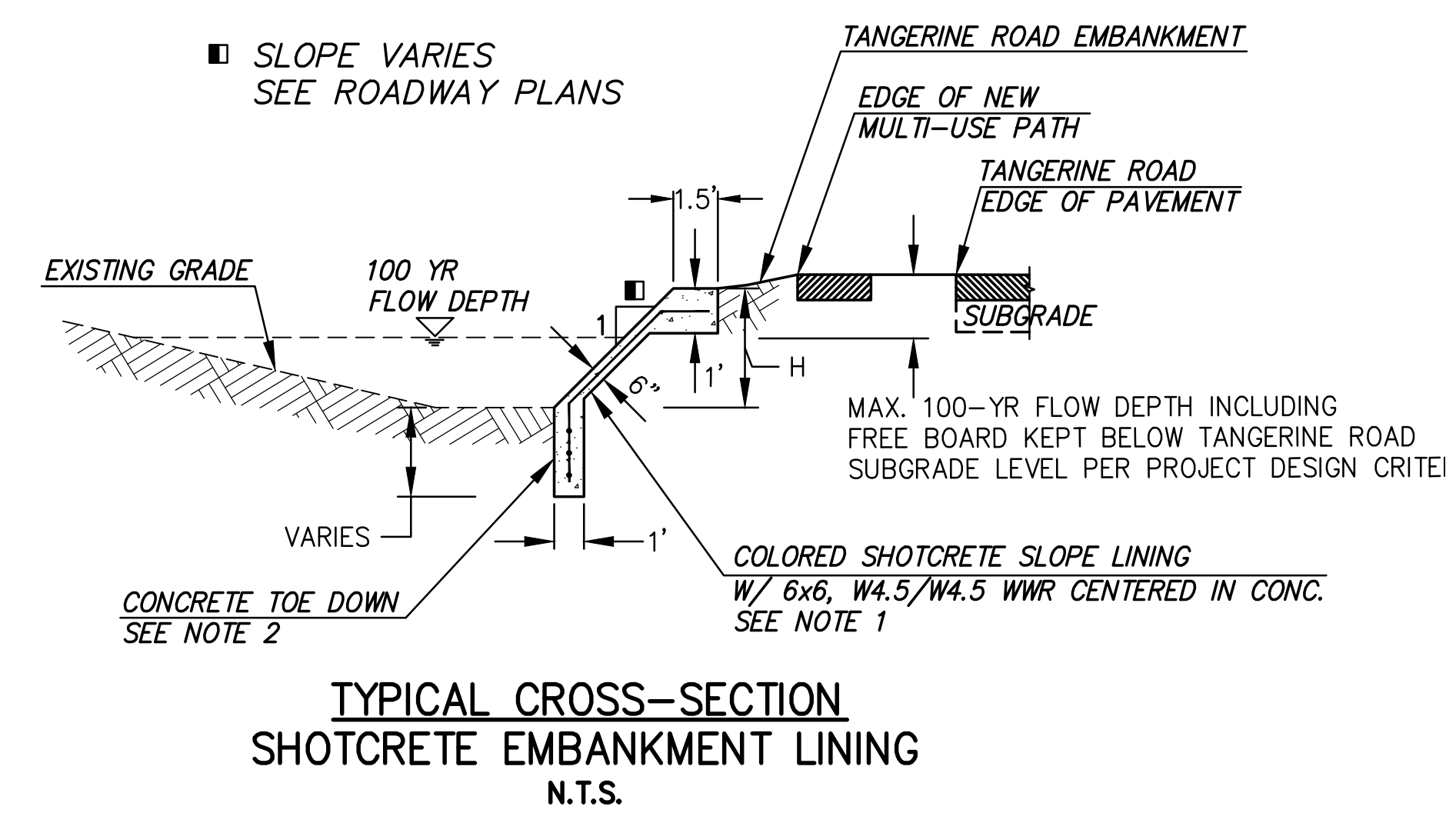
TOWN OF MARANA - PROJECT NO. 2005-061





ROADSIDE INTERCEPTER CHANNEL		
STATION	w (ft)	h (ft)
Sta 516+47.00 to Sta 524+02.00	15	2.5
Sta 527+86.00 to Sta 534+00.00	20	3
Sta 562+60.00 to Sta 568+50.00	2	2
Sta 579+80.00 to Sta 585+32.00	4	2
Sta 597+12.00 to Sta 606+50.00	6	2
Sta 613+90.00 to Sta 617+52.00	15	2.5
Sta 628+13.00 to Sta 630+45.50	6	2
Sta 630+95.50 to Sta 634+58.00	2	2
Sta 635+98.00 to Sta 642+50.00	8	2
Sta 645+04.50 to Sta 654+00.00	10	2
Sta 662+72.00 to Sta 672+44.00	35	3.5
Sta 675+60.00 to Sta 684+50.00	12	2
Sta 684+50.00 to Sta 689+10.00	8	2
Sta 695+00.00 to Sta 697+42.00	4	1.5
Sta 716+76.50 to Sta 724+93.50	10	4
Sta 724+93.50 to Sta 726+12.50	10-30	4-2.5
Sta 726+38.00 to Sta 727+46.00	30	2.5
Sta 745+10.00 to Sta 747+93.00	6	2
Sta 751+23.00 to Sta 752+27.00	10	2
Sta 759+85.00 to Sta 767+35.00	6	1.5

GRADE CONTROL AT BRIDGES		
Bridge Location	Sta 575+65.45	Sta 661+87.07
D1 (ft)	5	8
D2 (ft)	8.5	15
Abutment Toedown Depth Downstream of Bridge Inlet (ft)	5	8
Abutment Toedown Depth at Bridge Inlet and Extend 110 LF Upstream (ft)	7.5	12.5
Training Berm Toedown Depth (ft)	7.4	8.3
Top Elevation of Downstream 6' Deep Cut-Off Wall #1	2231.8	2461.4
Top Elevation of Downstream 6' Deep Cut-Off Wall #2	2230.8	2460.8



COLORED SHOTCRETE EMBANKMENT LINING	
STATION	H (ft)
Sta 525+64.00 to Sta 526+16.00	2.5-3
Sta 576+12.00 to Sta 577+59.00	9.5-13
Sta 578+95.00 to Sta 579+40.00	6-7
Sta 589+18.00 to Sta 591+20.00	3-4.5
Sta 672+44.00 to Sta 672+50.00	5.3
Sta 747+93.00 to Sta 748+00.00	2.5

- Notes:
- Shotcrete shall be colored and shall be 2,500 psi minimum.
 - Concrete shall be class "B", f'c = 2,500 psi minimum.

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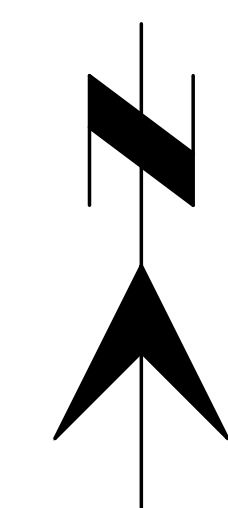
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CZ	12/12
AA	12/12
AA	12/12

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TOWN OF MARANA - PROJECT NO. 2005-061

TYPICAL SECTIONS FOR TANGERINE ROAD

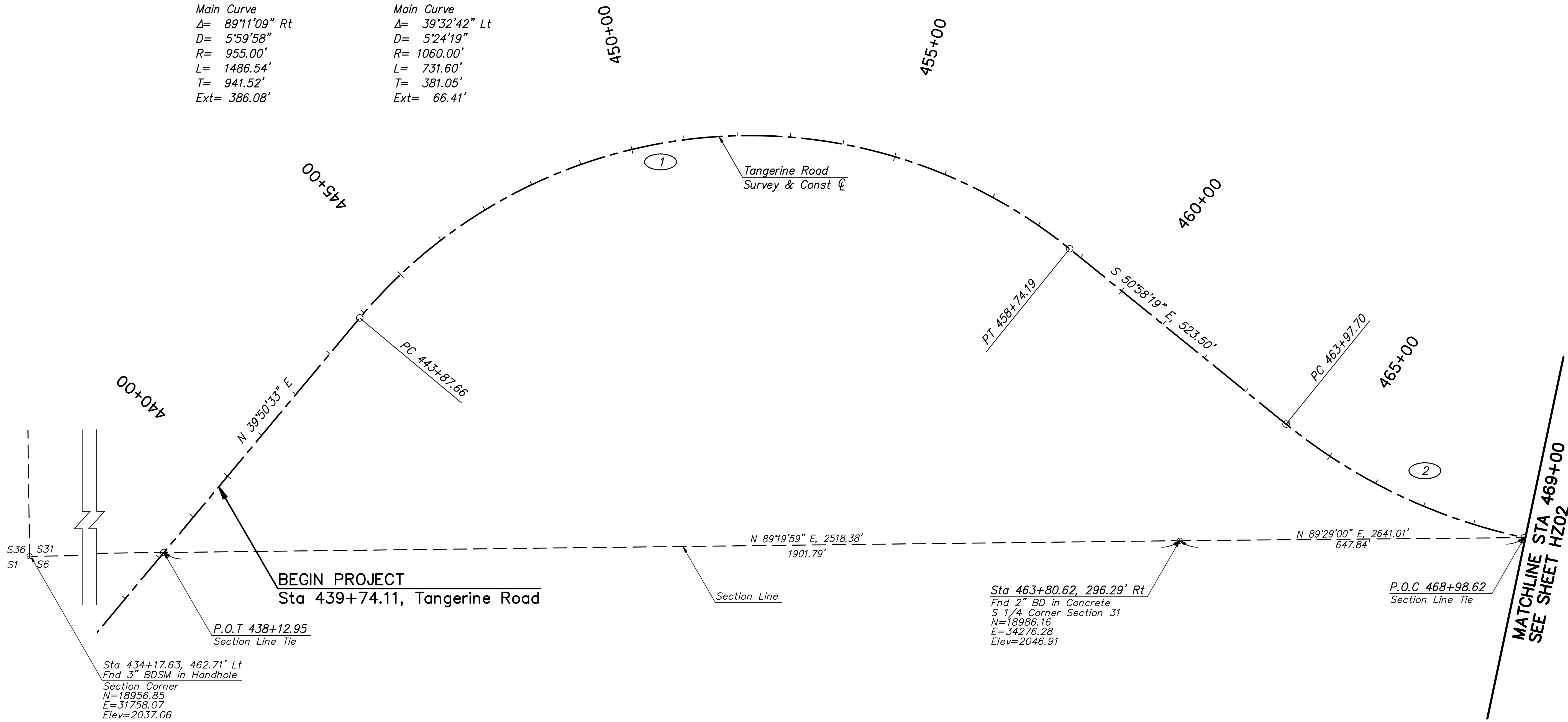


1 CURVE DATA

PI Sta 453+29.18
 Main Curve
 $\Delta = 89^{\circ}11'09''$ Rt
 $D = 5^{\circ}59'58''$
 $R = 955.00'$
 $L = 1486.54'$
 $T = 941.52'$
 $Ext = 386.08'$

2 CURVE DATA

PI Sta 467+78.74
 Main Curve
 $\Delta = 39^{\circ}32'42''$ Lt
 $D = 5^{\circ}24'19''$
 $R = 1060.00'$
 $L = 731.60'$
 $T = 381.05'$
 $Ext = 66.41'$



**MATCHLINE STA 469+00
 SEE SHEET HZ02**

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TOWN OF MARANA - PROJECT NO. 2005-061

HORIZONTAL CONTROL
 FOR
TANGERINE ROAD
 STA 439+74.11 TO STA 469+00.00
 TANGERINE ROAD

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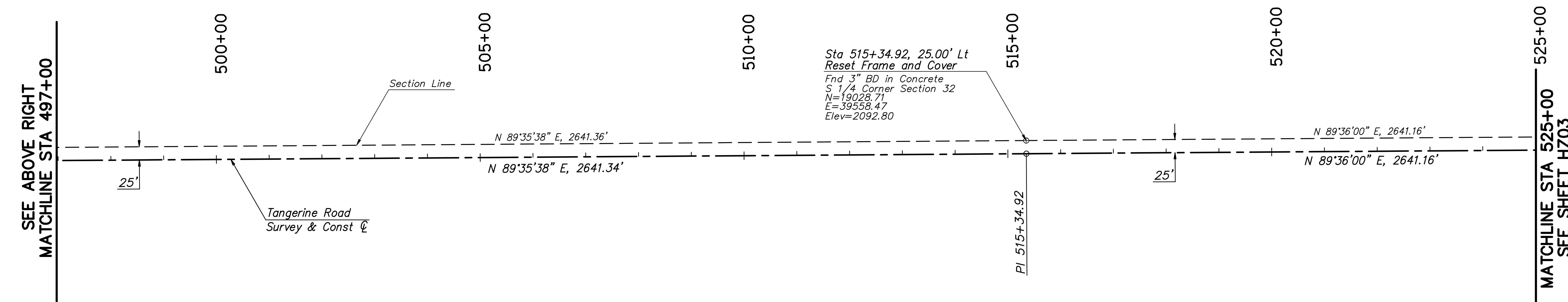
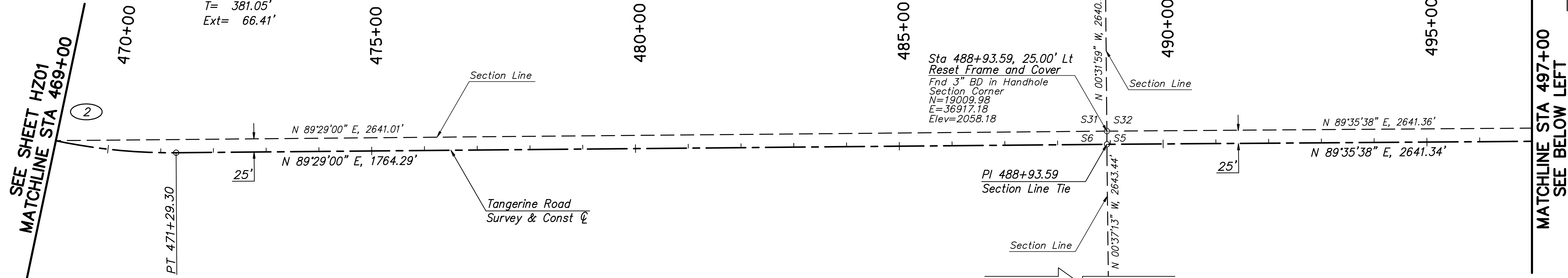
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

DESIGNED:	DATE
CZ	12/12
DRAWN:	DATE
CZ	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

T:\21\MA09\0401\BIBLIC_MORRIS\Drawings\HorizontalControl_C-180112701.dwg - 24x36 - Last Saved: Thu, 31 Jan 2013 10:47:19 AM

2 CURVE DATA

PI Sta 467+78.74
 Main Curve
 $\Delta = 39^\circ 32' 42''$ Lt
 $D = 5' 24' 19''$
 $R = 1060.00'$
 $L = 731.60'$
 $T = 381.05'$
 $Ext = 66.41'$



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				CZ	12/12
				DRAWN:	
				CHECKED:	
				PROJ. ENG.:	

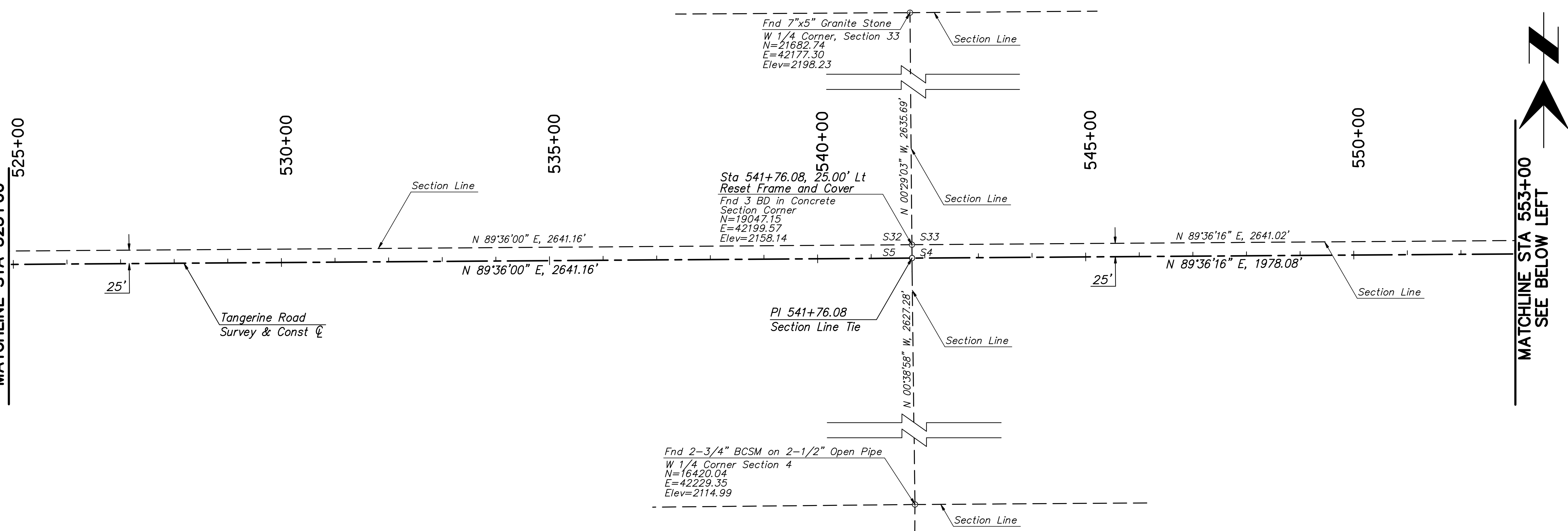
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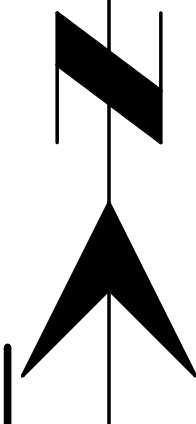
HORIZONTAL CONTROL FOR
TANGERINE ROAD
 STA 469+00.00 TO STA 525+00.00
 TANGERINE ROAD

TOWN OF MARANA - PROJECT NO. 2005-061

SEE SHEET HZ02
MATCHLINE STA 525+00



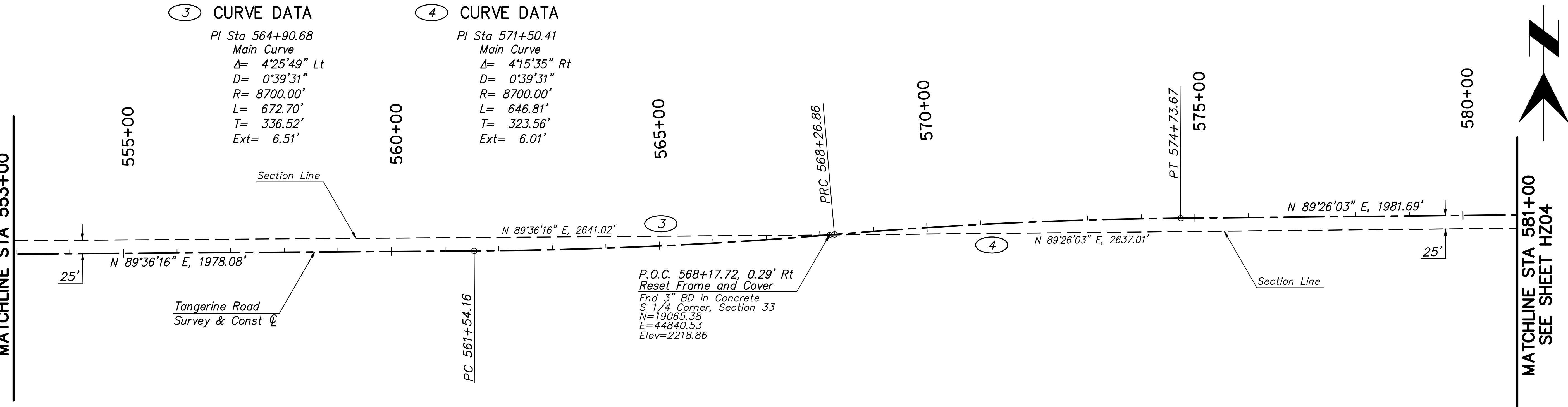
MATCHLINE STA 553+00
SEE BELOW LEFT



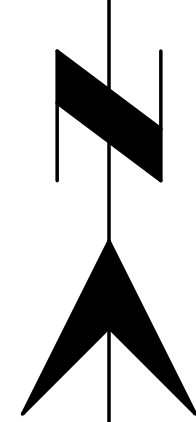
③ CURVE DATA
PI Sta 564+90.68
Main Curve
Δ= 4°25'49" Lt
D= 0°39'31"
R= 8700.00'
L= 672.70'
T= 336.52'
Ext= 6.51'

④ CURVE DATA
PI Sta 571+50.41
Main Curve
Δ= 4°15'35" Rt
D= 0°39'31"
R= 8700.00'
L= 646.81'
T= 323.56'
Ext= 6.01'

SEE ABOVE RIGHT
MATCHLINE STA 553+00



MATCHLINE STA 581+00
SEE SHEET HZ04



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CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

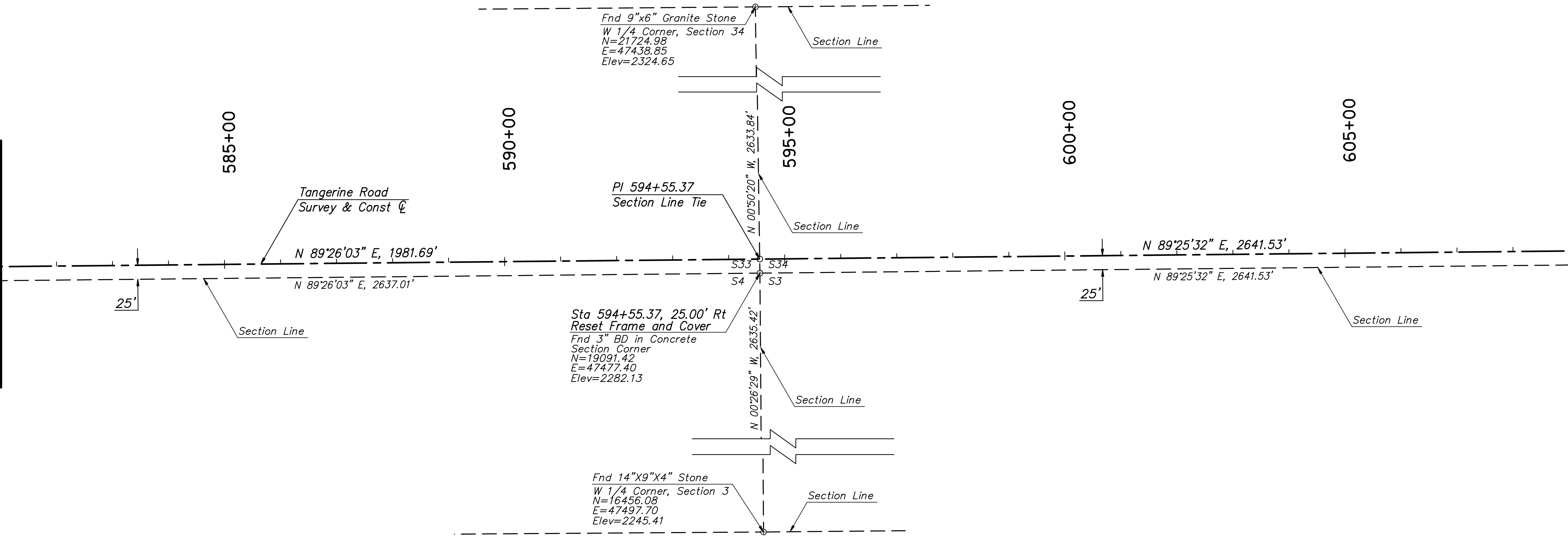
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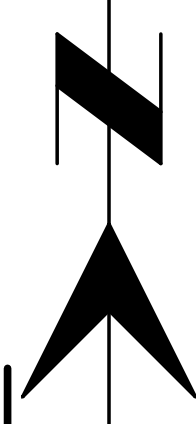
TOWN OF MARANA - PROJECT NO. 2005-061
HORIZONTAL CONTROL
FOR
TANGERINE ROAD
STA 525+00.00 TO STA 581+00.00
TANGERINE ROAD

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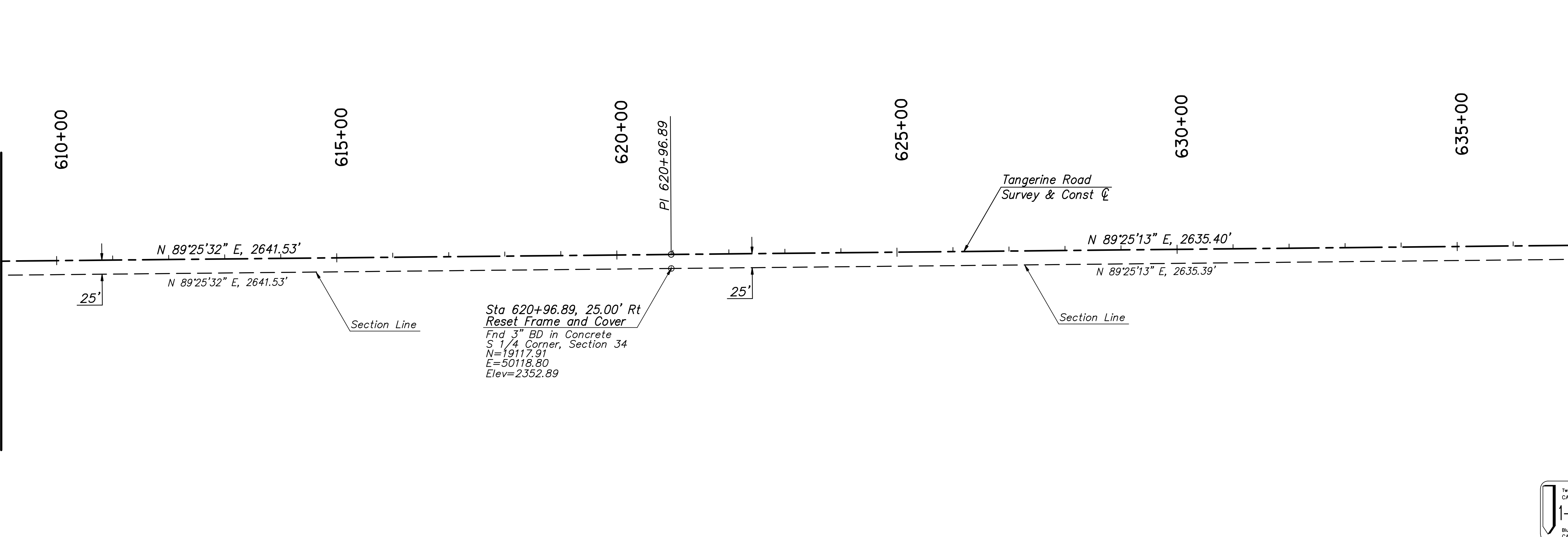
SEE SHEET HZ03
MATCHLINE STA 581+00



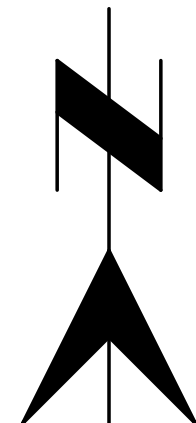
MATCHLINE STA 609+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCHLINE STA 609+00



MATCHLINE STA 637+00
SEE SHEET HZ05



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TOWN OF MARANA - PROJECT NO. 2005-061

HORIZONTAL CONTROL
FOR
TANGERINE ROAD
STA 581+00.00 TO STA 637+00.00
TANGERINE ROAD

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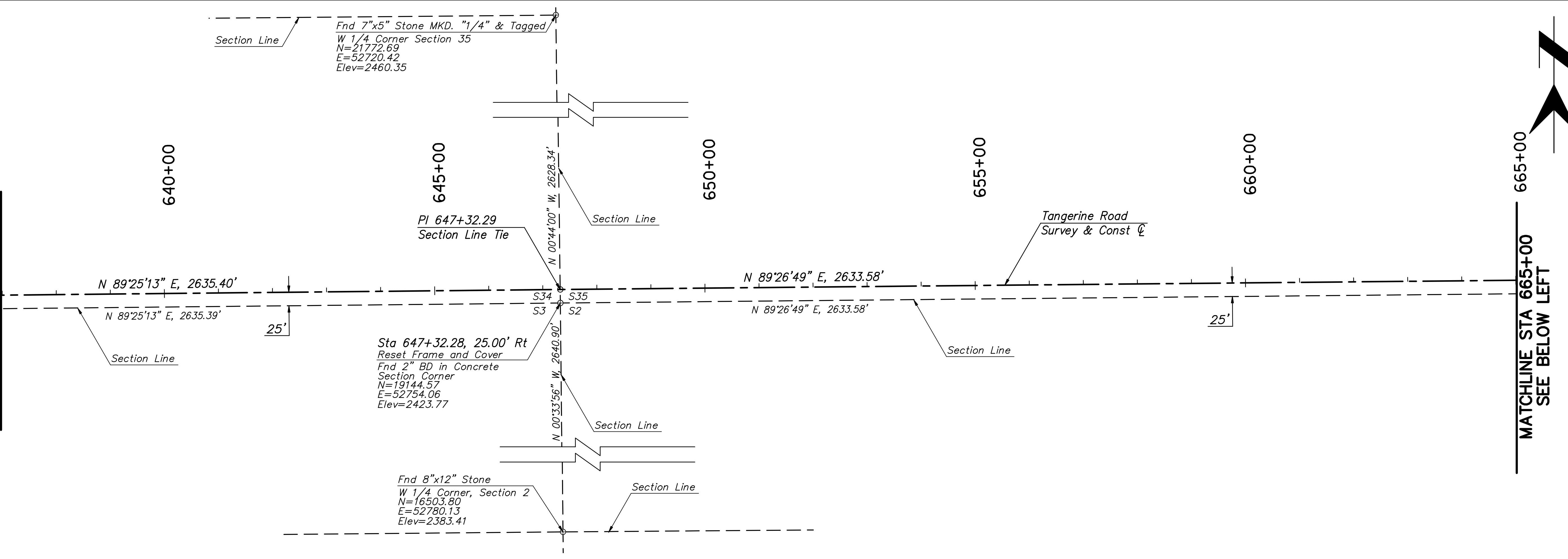
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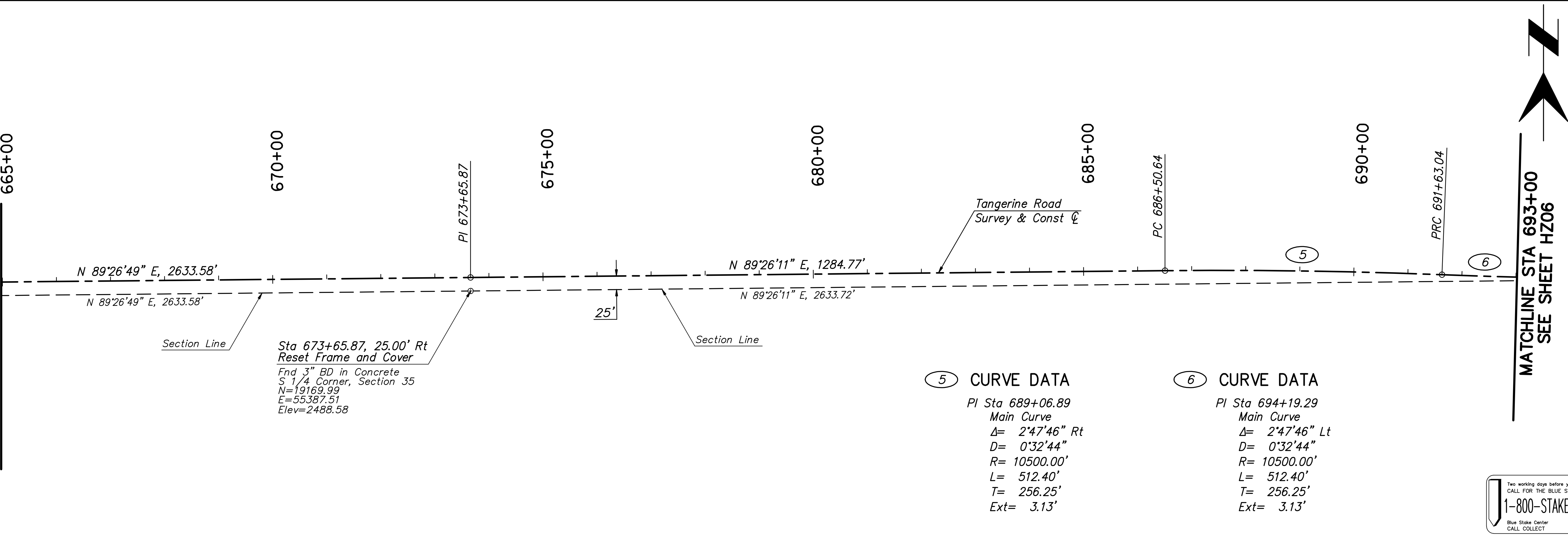
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CHECKED:	AA <td>DATE <td>12/12</td> </td>	DATE <td>12/12</td>	12/12
PROJ. ENG.:	AA <td>DATE <td>12/12</td> </td>	DATE <td>12/12</td>	12/12

SEE SHEET HZ04
MATCHLINE STA 637+00



MATCHLINE STA 665+00
SEE BELOW LEFT

SEE ABOVE RIGHT
MATCHLINE STA 665+00



MATCHLINE STA 693+00
SEE SHEET HZ06

⑤ CURVE DATA
PI Sta 689+06.89
Main Curve
Δ= 2°47'46" Rt
D= 0'32'44"
R= 10500.00'
L= 512.40'
T= 256.25'
Ext= 3.13'

⑥ CURVE DATA
PI Sta 694+19.29
Main Curve
Δ= 2°47'46" Lt
D= 0'32'44"
R= 10500.00'
L= 512.40'
T= 256.25'
Ext= 3.13'

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Blue Stake Center
CALL COLLECT

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	DATE:	12/12
CHECKED:	AA	DATE:	12/12
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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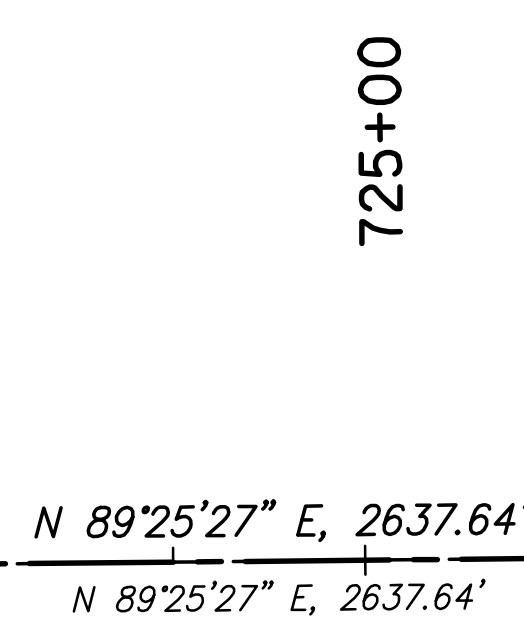
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HORIZONTAL CONTROL
FOR
TANGERINE ROAD
STA 637+00.00 TO STA 693+00.00
TANGERINE ROAD

TOWN OF MARANA - PROJECT NO. 2005-061

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SEE ABOVE RIGHT
MATCHLINE STA 721+00



7 CURVE DATA
 PI Sta 744+93.75
 Main Curve
 $\Delta = 9^{\circ}33'58''$ Rt
 $D = 1^{\circ}38'13''$
 $R = 3500.00'$
 $L = 584.36'$
 $T = 292.86'$
 $Ext = 12.23'$

Sta 726+37.64
 Reset Frame and Cover
 Fnd 3" BD in Concrete
 S 1/4 Corner, Section 36
 $N = 19222.42$
 $E = 60658.61$
 Elev = 2585.87

Tangerine Road
 Survey & Const ϕ
 Section Line

Tangerine Road
 Survey & Const ϕ
 Section Line

MATCHLINE STA 749+00
 SEE SHEET HZ07

Two working days before you dig,
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 Blue Stake Center
 CALL COLLECT

SCALES: HORIZ. 1"=100'
 VERT. N/A
 SHEET HZ06 OF HZ07

TOWN OF MARANA - PROJECT NO. 2005-061

HORIZONTAL CONTROL
 FOR
TANGERINE ROAD
 STA 693+00.00 TO STA 749+00.00
 TANGERINE ROAD

PSOMAS
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 Tucson, AZ 85705
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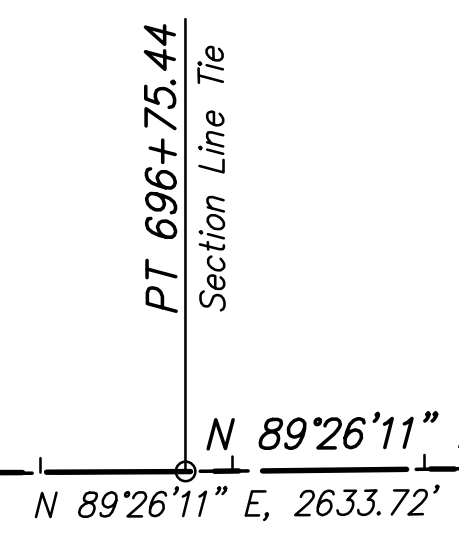
30%
 PRELIMINARY
 NOT FOR
 CONSTRUCTION

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

DESIGNED:	DATE
CZ	12/12
DRAWN:	DATE
AA	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

SEE SHEET HZ05
MATCHLINE STA 693+00

695+00



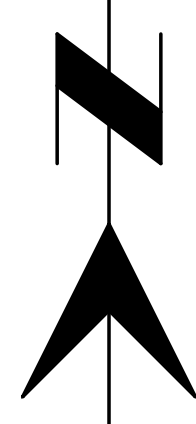
6 CURVE DATA
 PI Sta 694+19.29
 Main Curve
 $\Delta = 2^{\circ}47'46''$ Lt
 $D = 0^{\circ}32'44''$
 $R = 10500.00'$
 $L = 512.40'$
 $T = 256.25'$
 $Ext = 3.13'$

Fnd 3" BD in Handhole
 W 1/4 Corner, Section 1
 $N = 16544.35$
 $E = 58058.91$
 Elev = 2496.72

Sta 700+00.00
 Reset Frame and Cover
 Fnd 3" BD in Handhole
 Section Corner
 $N = 19195.90$
 $E = 58021.11$
 Elev = 2547.26

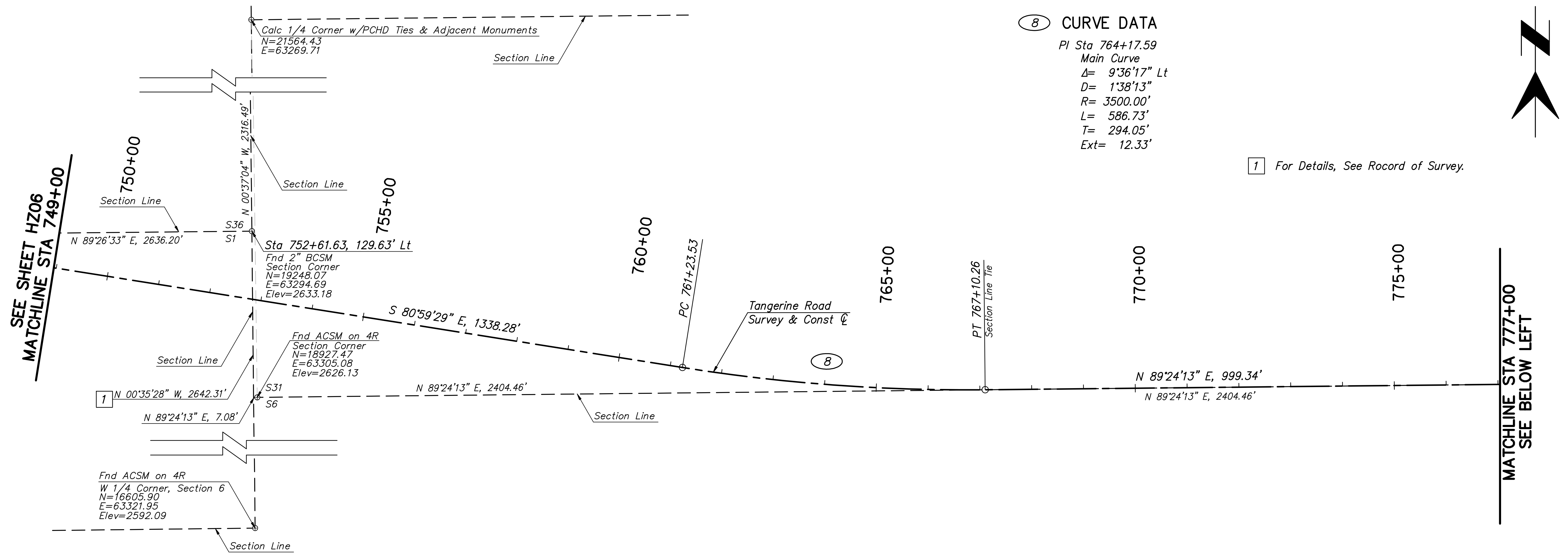
Tangerine Road
 Survey & Const ϕ
 Section Line

MATCHLINE STA 721+00
 SEE BELOW LEFT



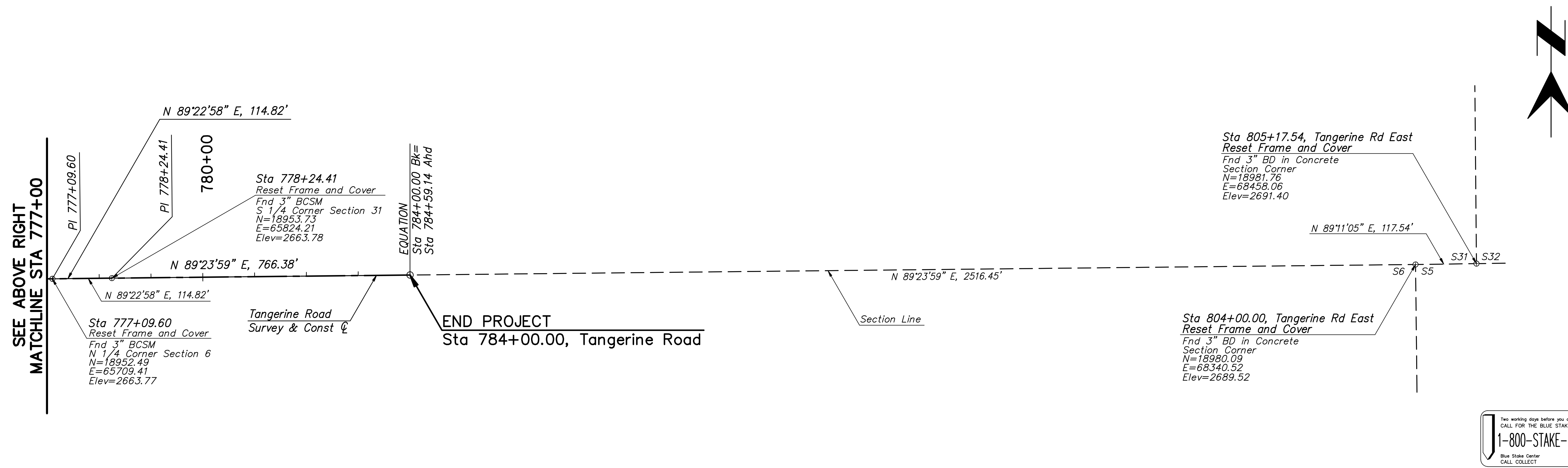
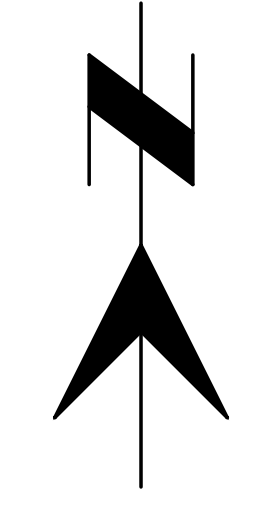
SCALES: HORIZ. 1"=100'
 VERT. N/A
 SHEET HZ06 OF HZ07

PAGE 16 OF 143

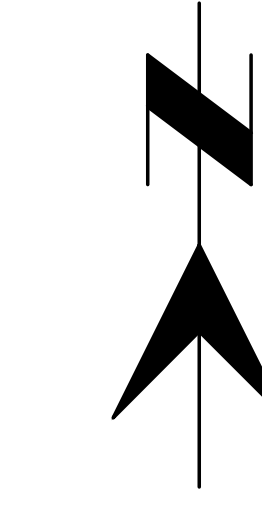


8 CURVE DATA
 PI Sta 764+17.59
 Main Curve
 Δ= 9°36'17" Lt
 D= 1'38'13"
 R= 3500.00'
 L= 586.73'
 T= 294.05'
 Ext= 12.33'

1 For Details, See Record of Survey.



Sta 805+17.54, Tangerine Rd East
 Reset Frame and Cover
 Fnd 3" BD in Concrete
 Section Corner
 N=18981.76
 E=68458.06
 Elev=2691.40



SEE ABOVE RIGHT
 MATCHLINE STA 777+00

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 Blue Stake Center
 CALL COLLECT

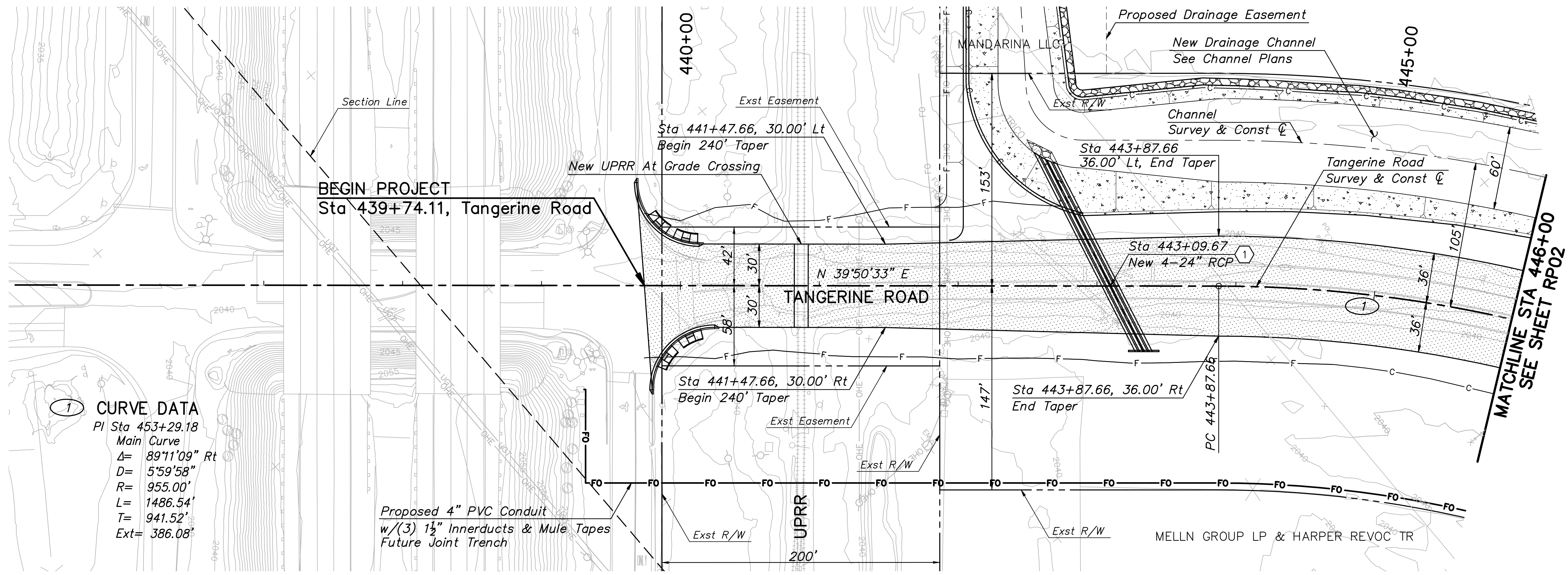
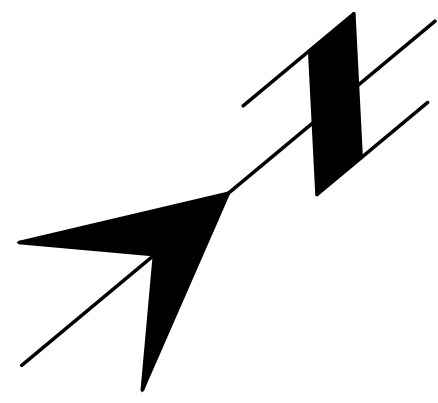
DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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P S O M A S
 HORIZONTAL CONTROL
 FOR
TANGERINE ROAD
 STA 749+00.00 TO STA 806+00.00
 TANGERINE ROAD

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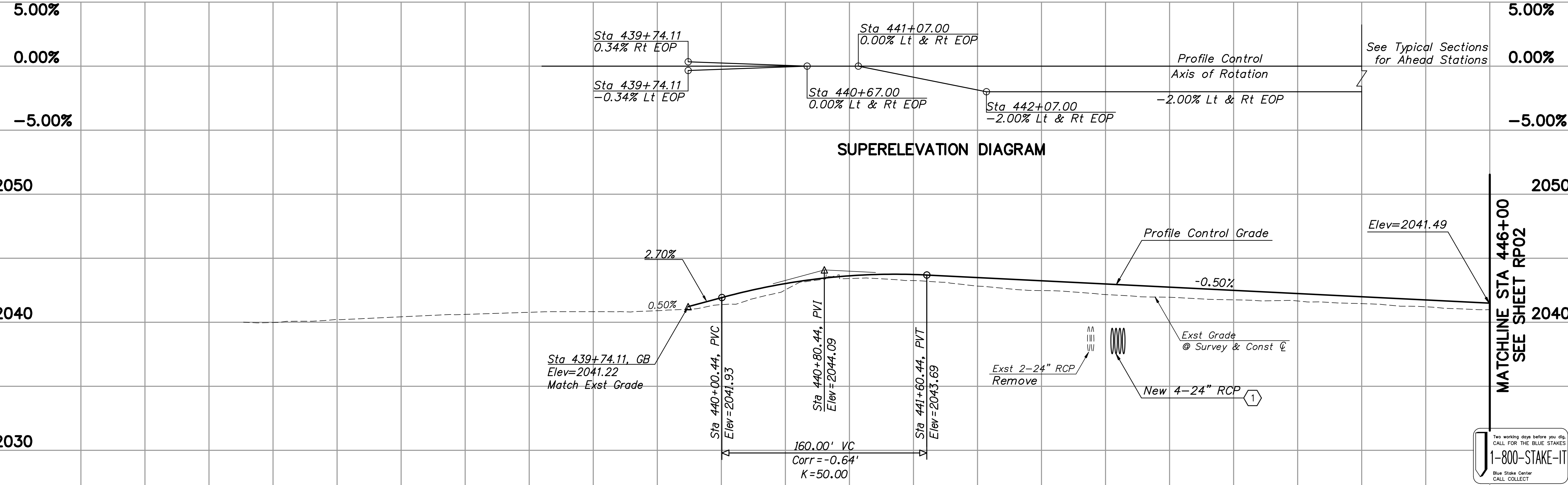


1 CURVE DATA
 PI Sta 453+29.18
 Main Curve
 $\Delta = 89^{\circ}11'09''$ Rt
 $D = 5^{\circ}59'58''$
 $R = 955.00'$
 $L = 1486.54'$
 $T = 941.52'$
 $Ext = 386.08'$

Proposed 4" PVC Conduit
 w/(3) 1 1/2" Innerducts & Mule Tapes
 Future Joint Trench

MATCHLINE STA 446+00
SEE SHEET RP02

435+00 436+00 437+00 438+00 439+00 440+00 441+00 442+00 443+00 444+00 445+00 446+00



SUPERELEVATION DIAGRAM

MATCHLINE STA 446+00
SEE SHEET RP02

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DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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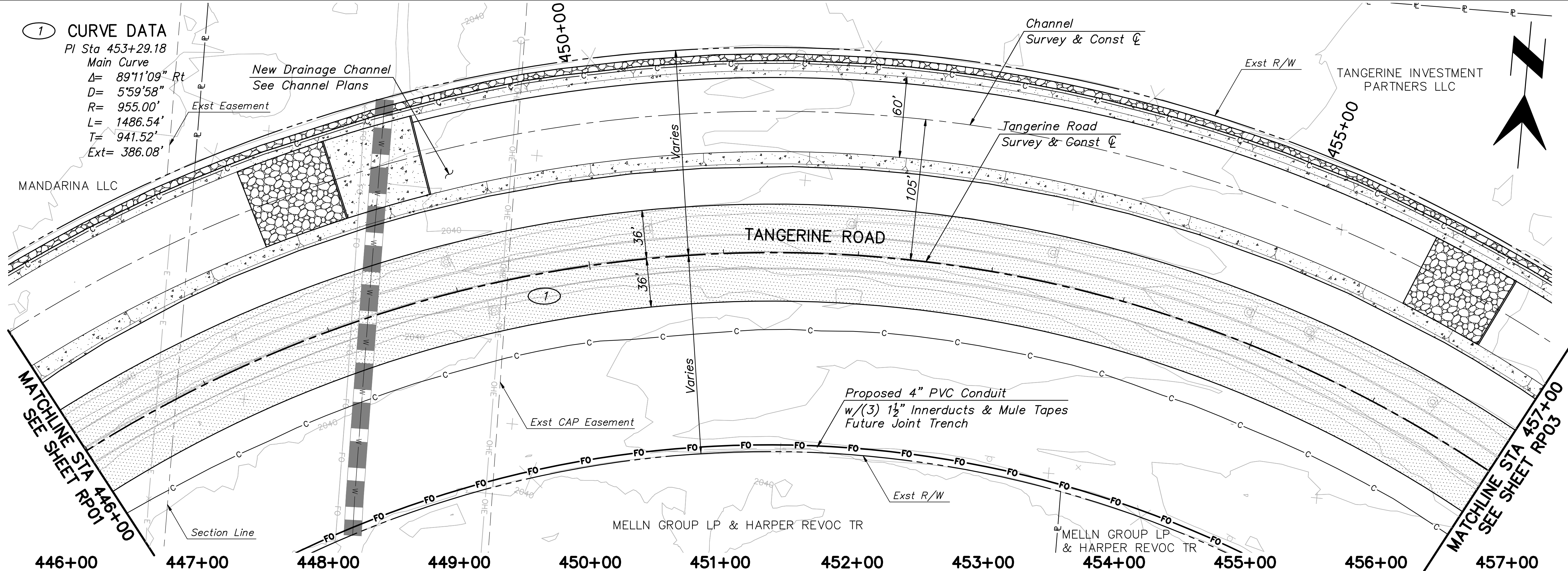
TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 435+00.00 TO STA 446+00.00
 TANGERINE ROAD

1 CURVE DATA
 PI Sta 453+29.18
 Main Curve
 $\Delta = 89^{\circ}11'09''$ Rt
 $D = 5^{\circ}59'58''$
 $R = 955.00'$
 $L = 1486.54'$
 $T = 941.52'$
 $Ext = 386.08'$

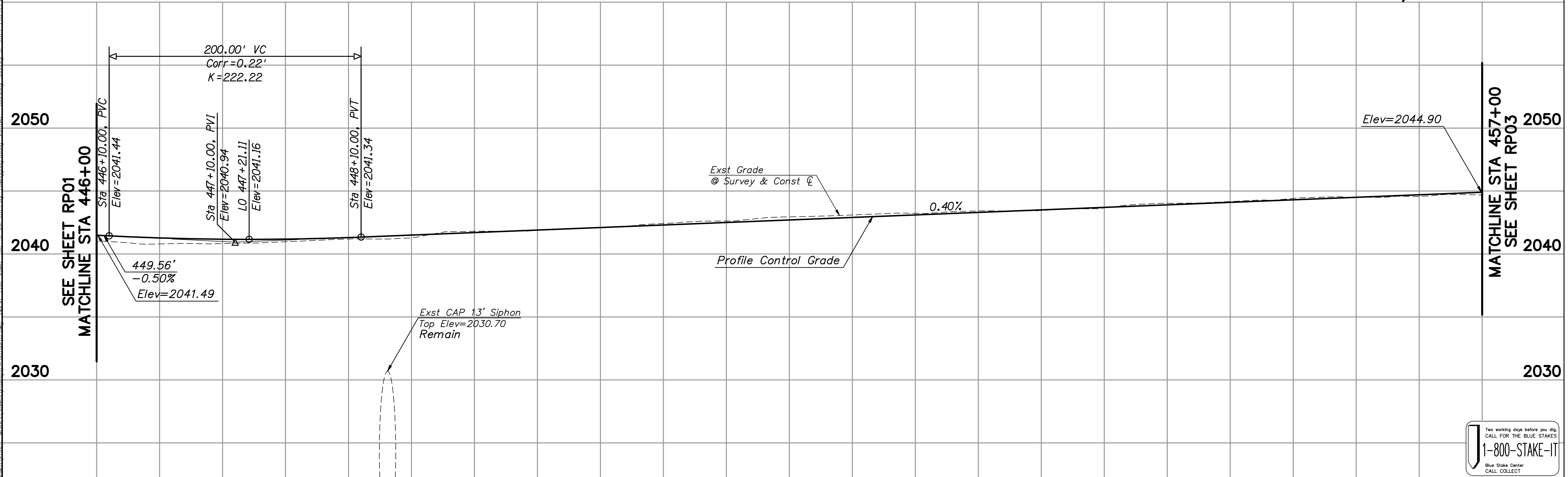
New Drainage Channel
 See Channel Plans

Exst Easement

Section Line



446+00 447+00 448+00 449+00 450+00 451+00 452+00 453+00 454+00 455+00 456+00 457+00



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 Blue Stake Center
 CALL COLLECT

SCALES: HORIZ. 1"=40'
 VERT. 1"=4'
 SHEET RP02 OF RP32

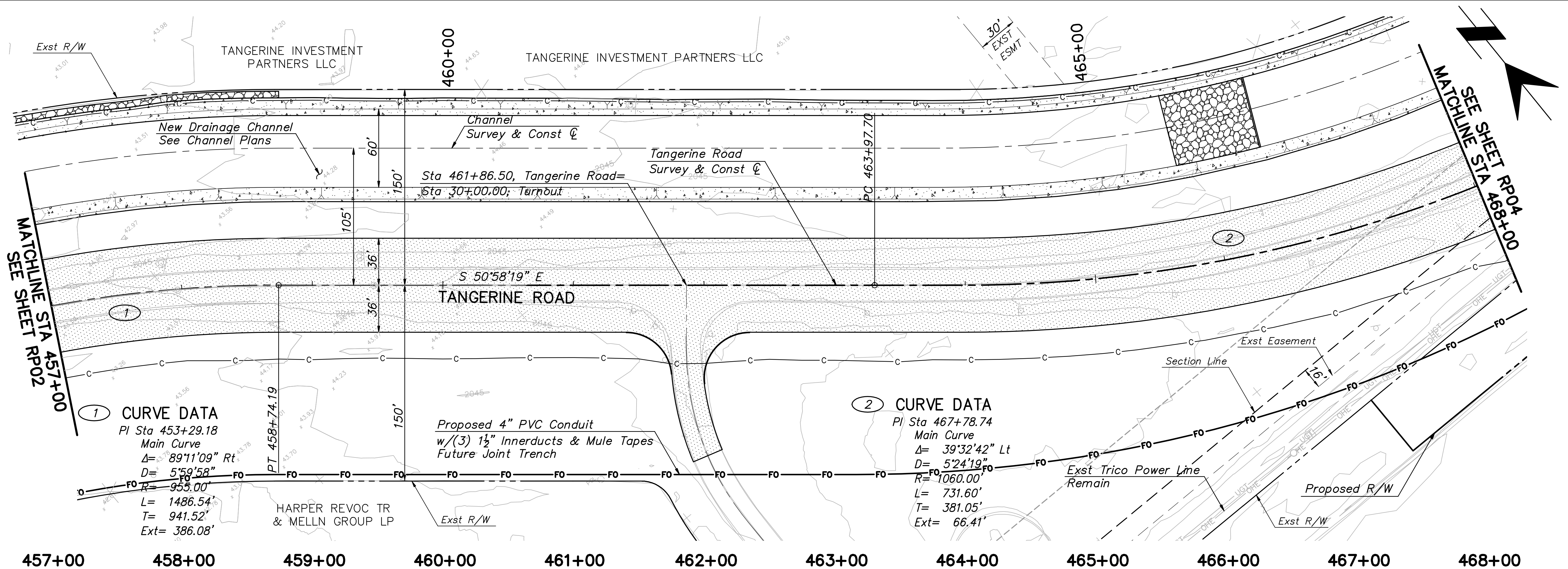
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DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 446+00.00 TO STA 457+00.00
 TANGERINE ROAD

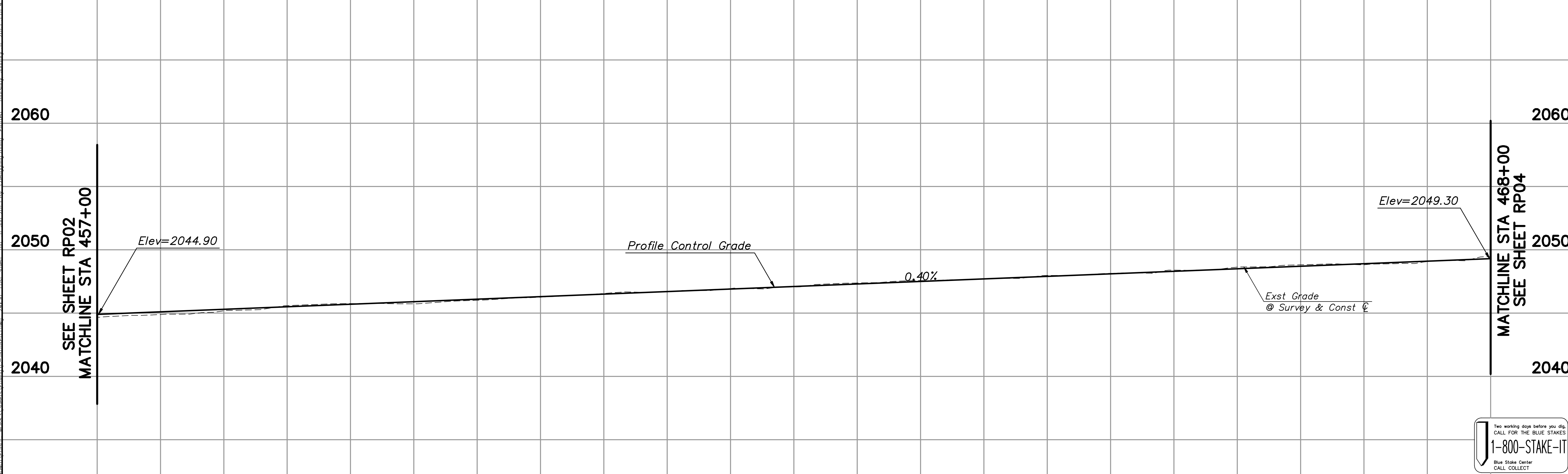


1 CURVE DATA
 PI Sta 453+29.18
 Main Curve
 $\Delta = 89^{\circ}11'09''$ Rt
 $D = 5^{\circ}59'58''$
 $R = 955.00'$
 $L = 1486.54'$
 $T = 941.52'$
 $Ext = 386.08'$

2 CURVE DATA
 PI Sta 467+78.74
 Main Curve
 $\Delta = 39^{\circ}32'42''$ Lt
 $D = 5^{\circ}24'19''$
 $R = 1060.00'$
 $L = 731.60'$
 $T = 381.05'$
 $Ext = 66.41'$

Proposed 4" PVC Conduit
 w/(3) 1 1/2" Innerducts & Mule Tapes
 Future Joint Trench

457+00 458+00 459+00 460+00 461+00 462+00 463+00 464+00 465+00 466+00 467+00 468+00



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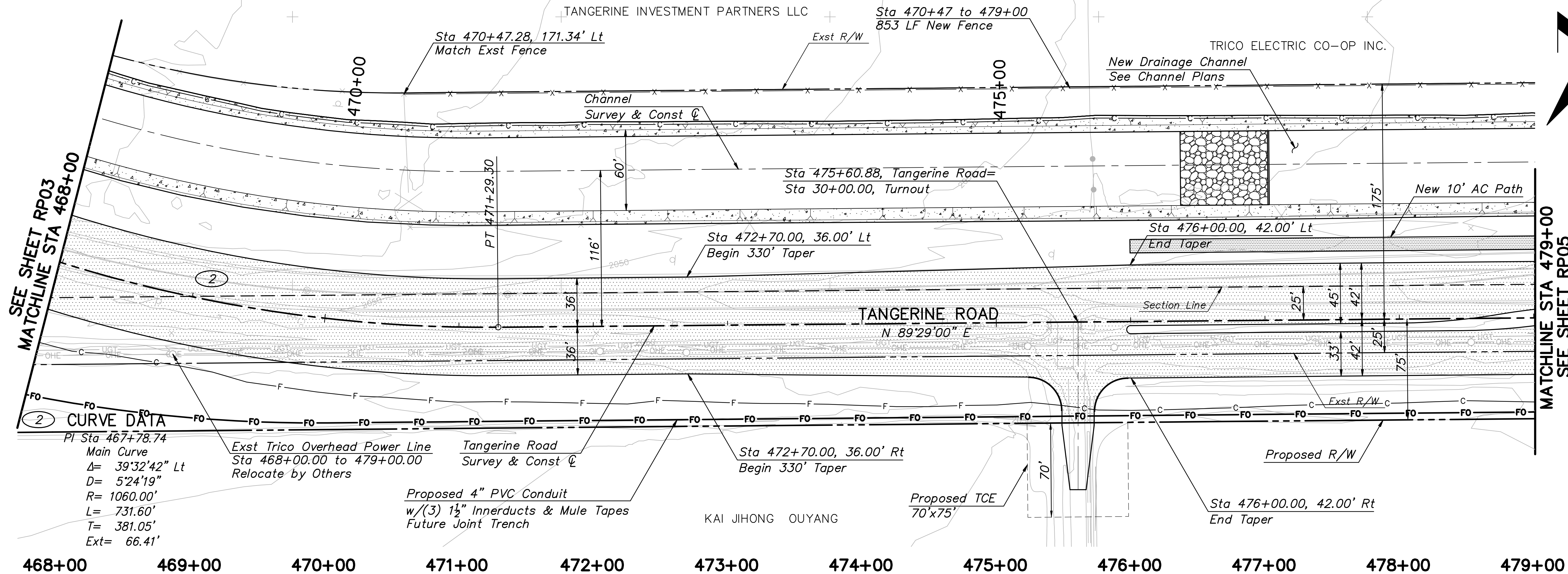
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DRAWN:	AA	DATE:	12/12
CHECKED:	AA	DATE:	12/12
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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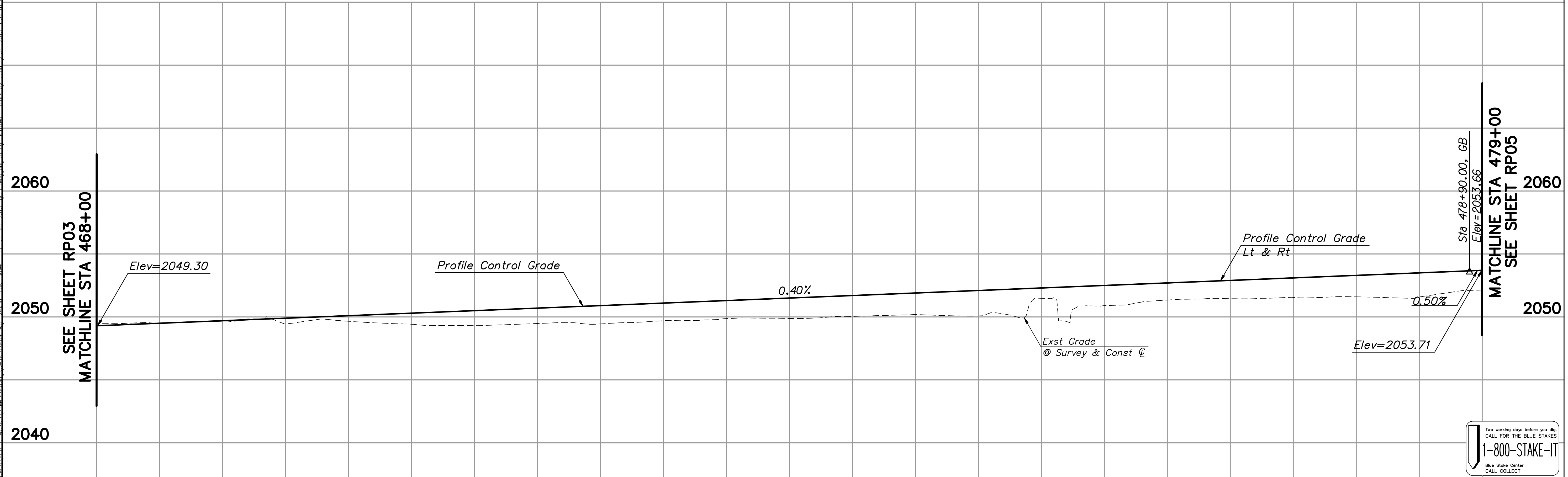
TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 457+00.00 TO STA 466+00.00
 TANGERINE ROAD



CURVE DATA

PI Sta 467+78.74
 Main Curve
 $\Delta = 39^{\circ}32'42''$ Lt
 $D = 5^{\circ}24'19''$
 $R = 1060.00'$
 $L = 731.60'$
 $T = 381.05'$
 $Ext = 66.41'$

468+00 469+00 470+00 471+00 472+00 473+00 474+00 475+00 476+00 477+00 478+00 479+00



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 CALL FOR THE BLUE STAKES!
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 Blue Stake Center
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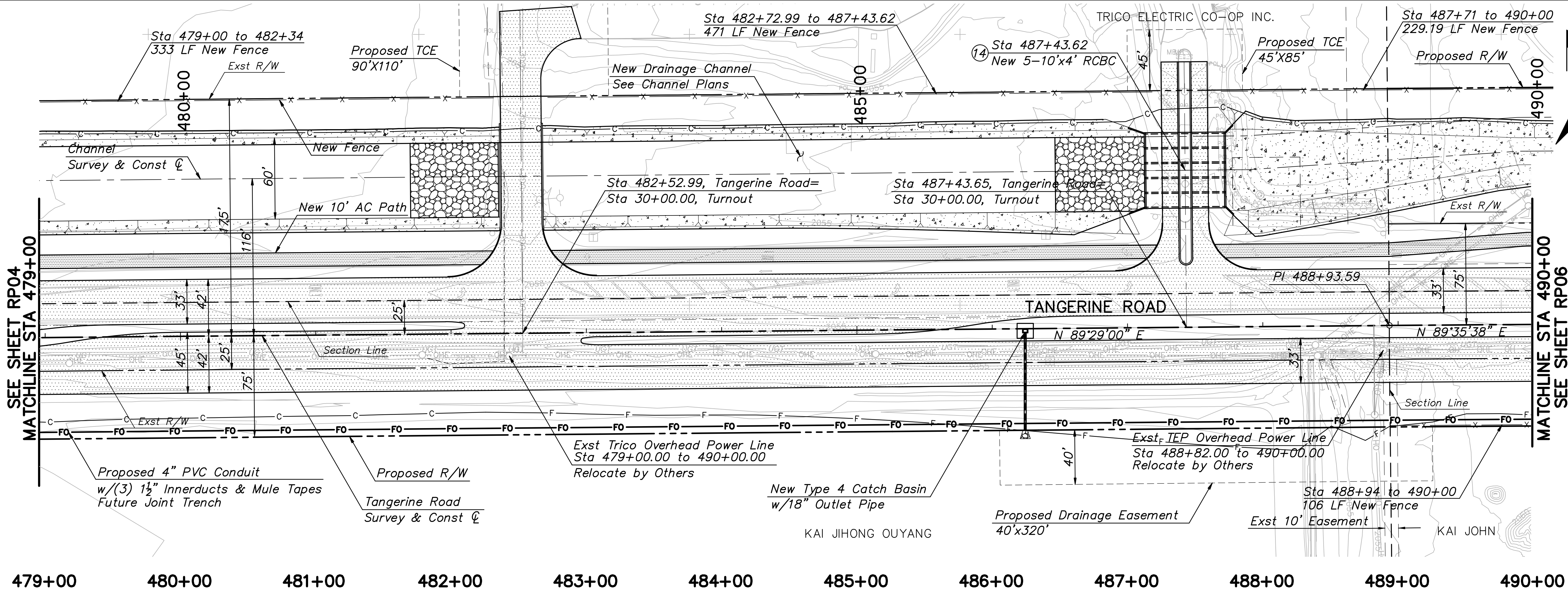
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PROJ. ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

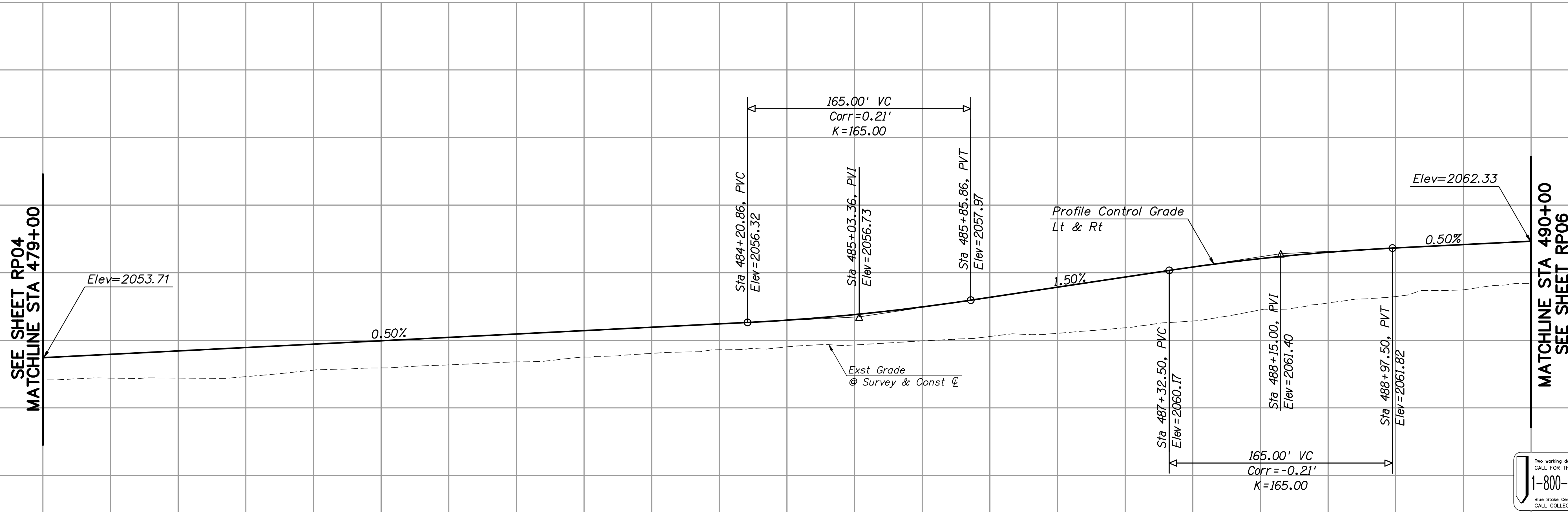
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TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 468+00.00 TO STA 479+00.00
 TANGERINE ROAD



79+00 80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00



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Blue Stake Center
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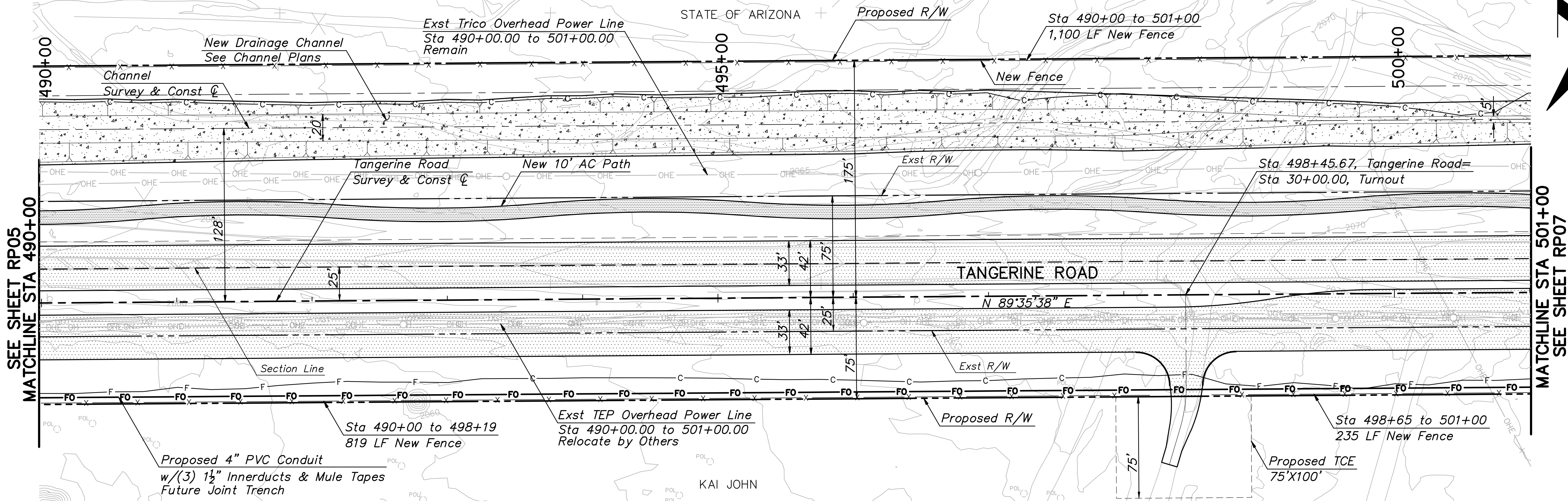
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DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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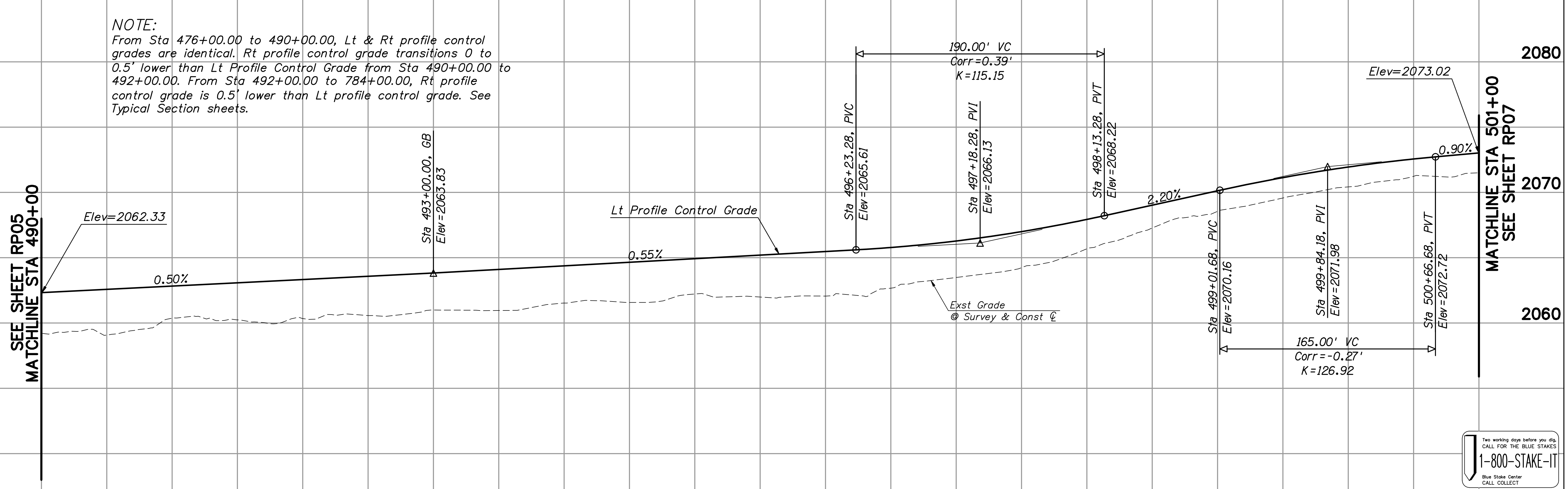
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TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 479+00.00 TO STA 490+00.00
TANGERINE ROAD



490+00 491+00 492+00 493+00 494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00

NOTE:
From Sta 476+00.00 to 490+00.00, Lt & Rt profile control grades are identical. Rt profile control grade transitions 0 to 0.5' lower than Lt Profile Control Grade from Sta 490+00.00 to 492+00.00. From Sta 492+00.00 to 784+00.00, Rt profile control grade is 0.5' lower than Lt profile control grade. See Typical Section sheets.



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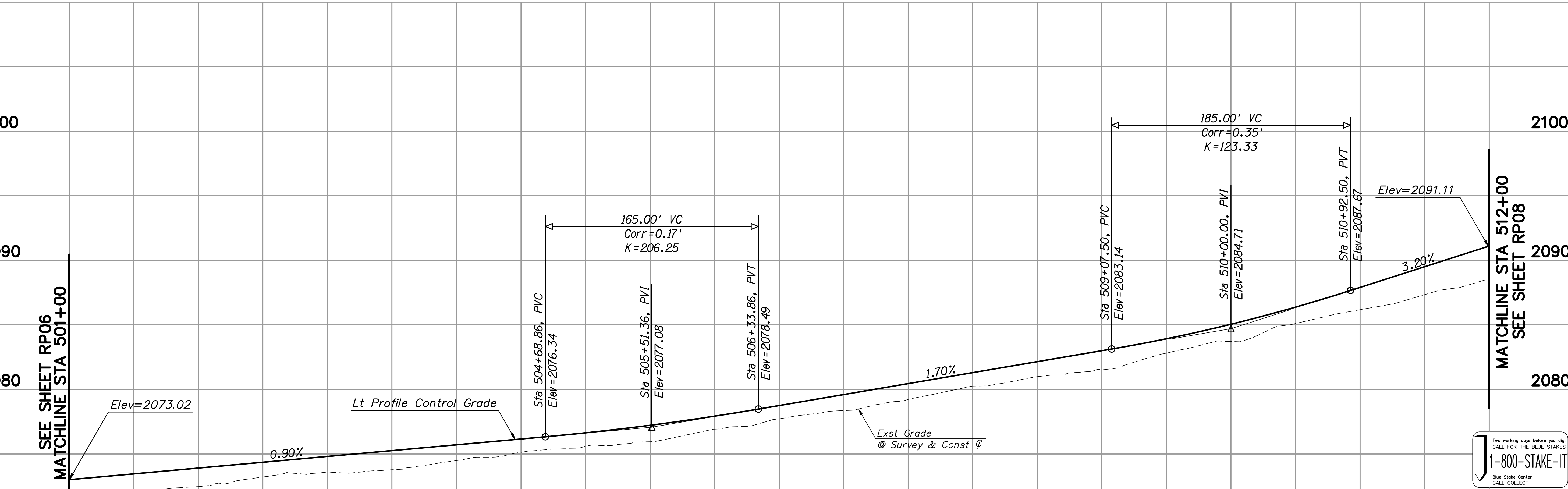
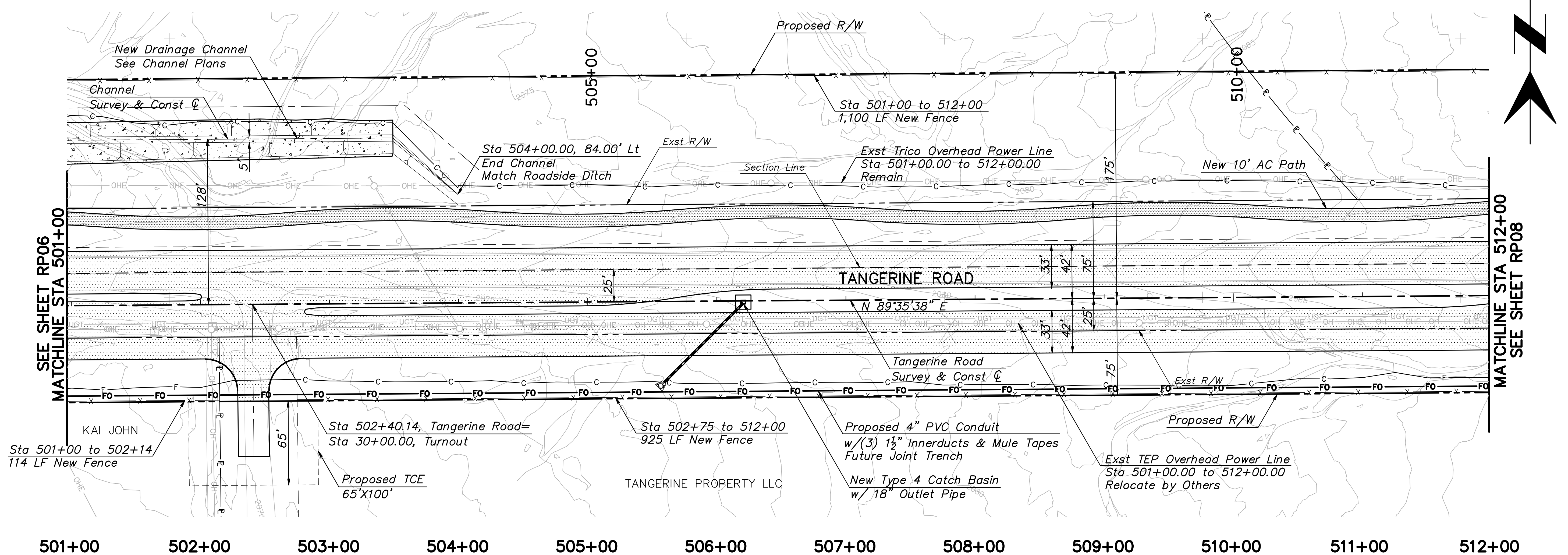
DESIGNED:	CZ	DATE	12/12
DRAWN:	CZ	DATE	12/12
CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 490+00.00 TO STA 501+00.00
TANGERINE ROAD



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Blue Stake Center
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DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

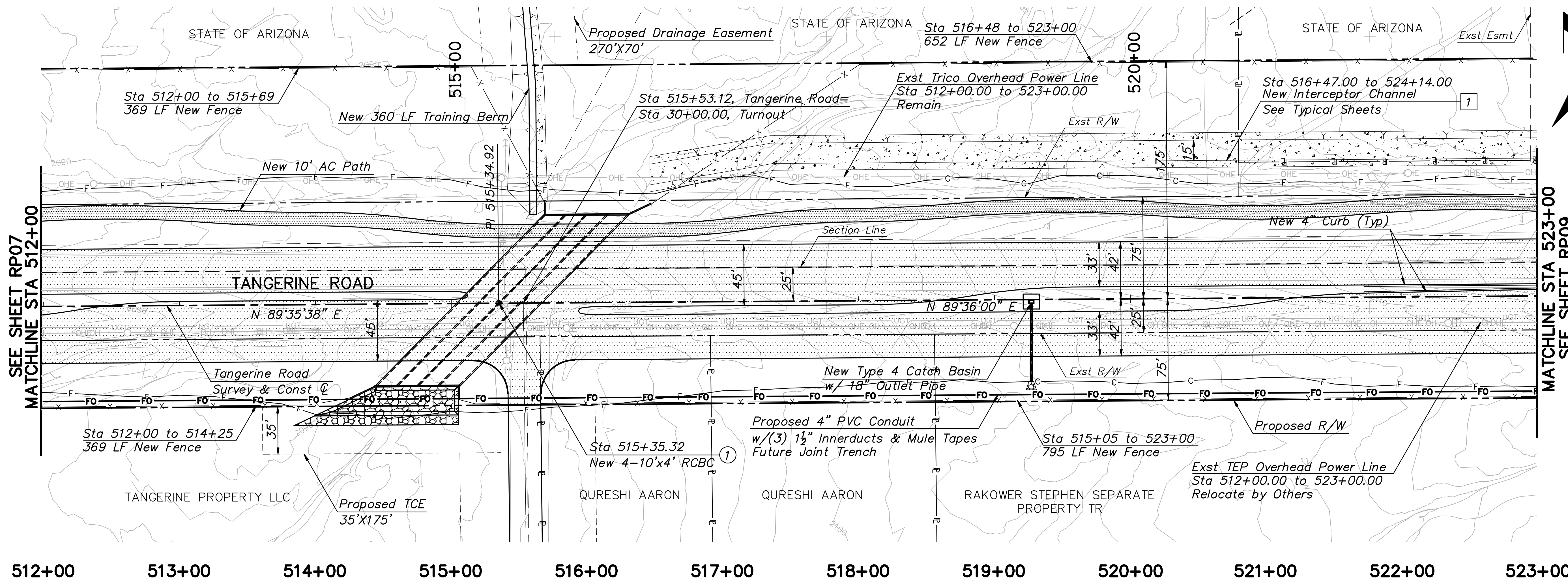
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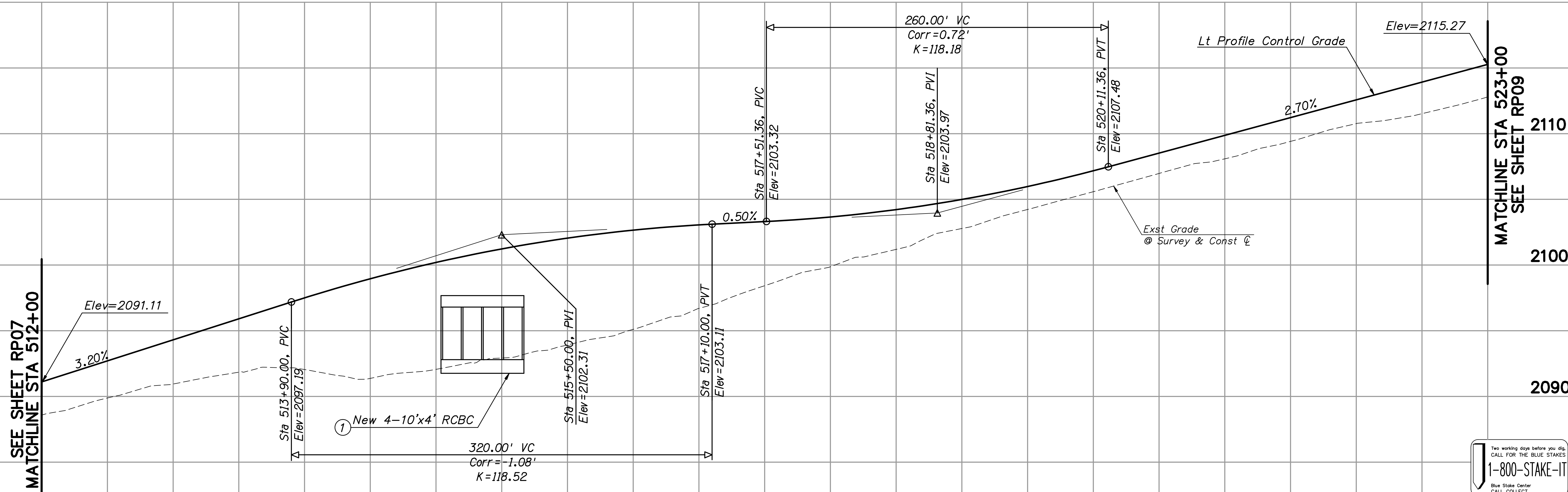
TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 501+00.00 TO STA 512+00.00
TANGERINE ROAD

SEE SHEET RP07
MATCHLINE STA 512+00

MATCHLINE STA 523+00
SEE SHEET RP09



512+00 513+00 514+00 515+00 516+00 517+00 518+00 519+00 520+00 521+00 522+00 523+00



SEE SHEET RP07
MATCHLINE STA 512+00

MATCHLINE STA 523+00
SEE SHEET RP09

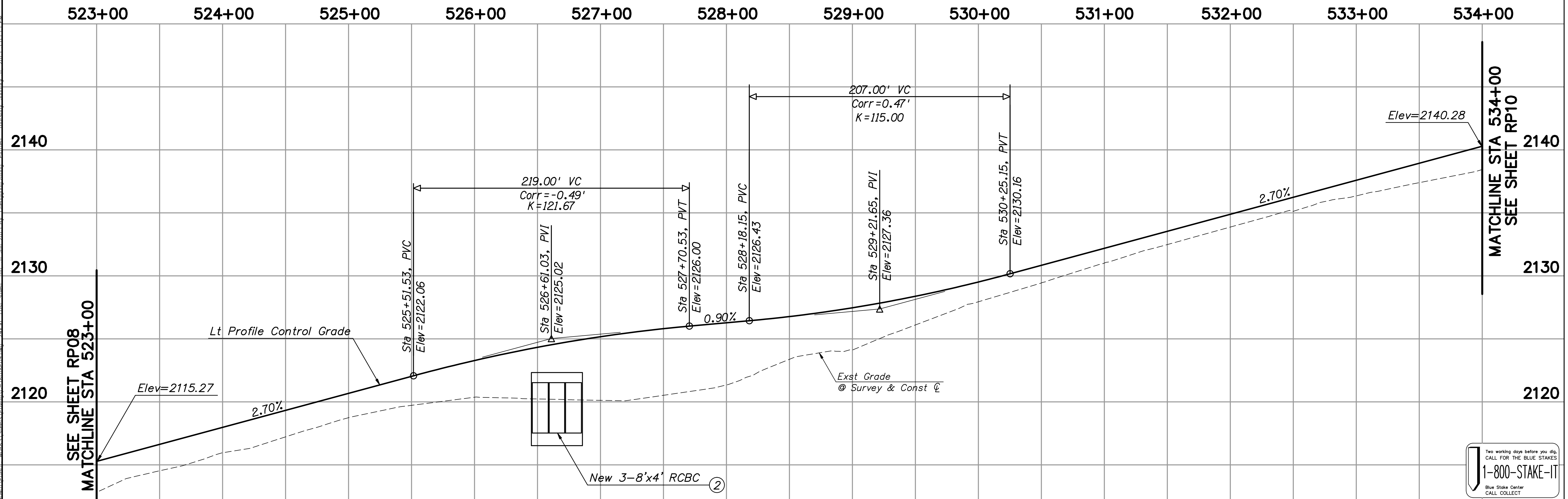
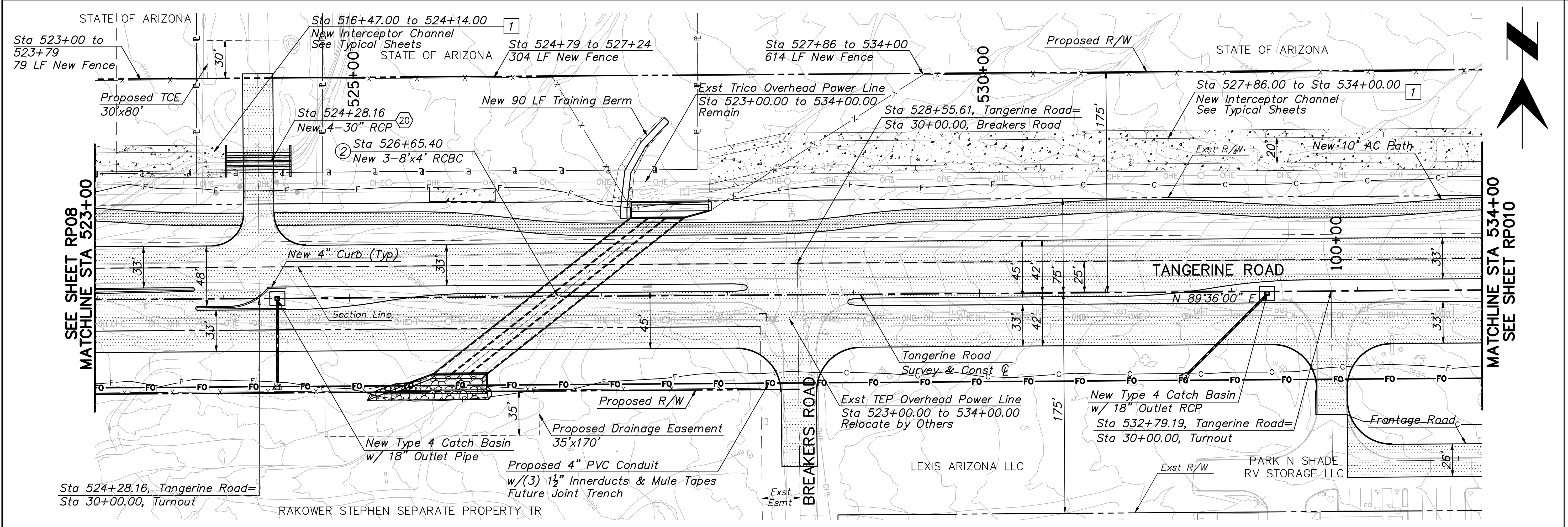
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DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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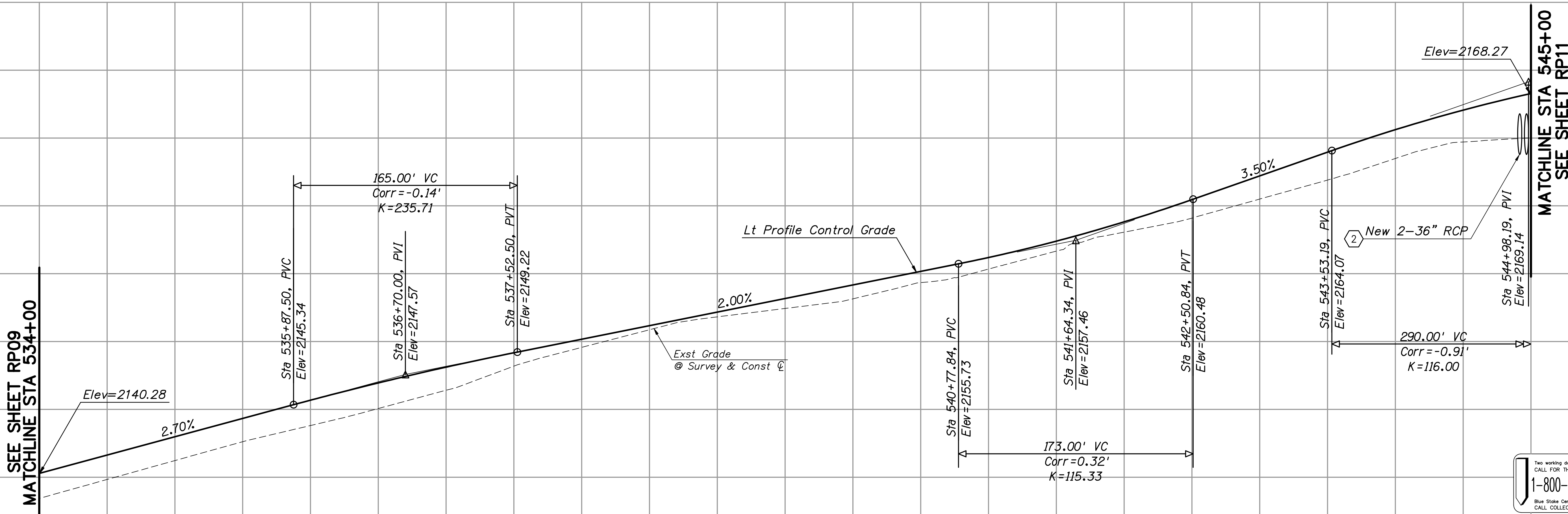
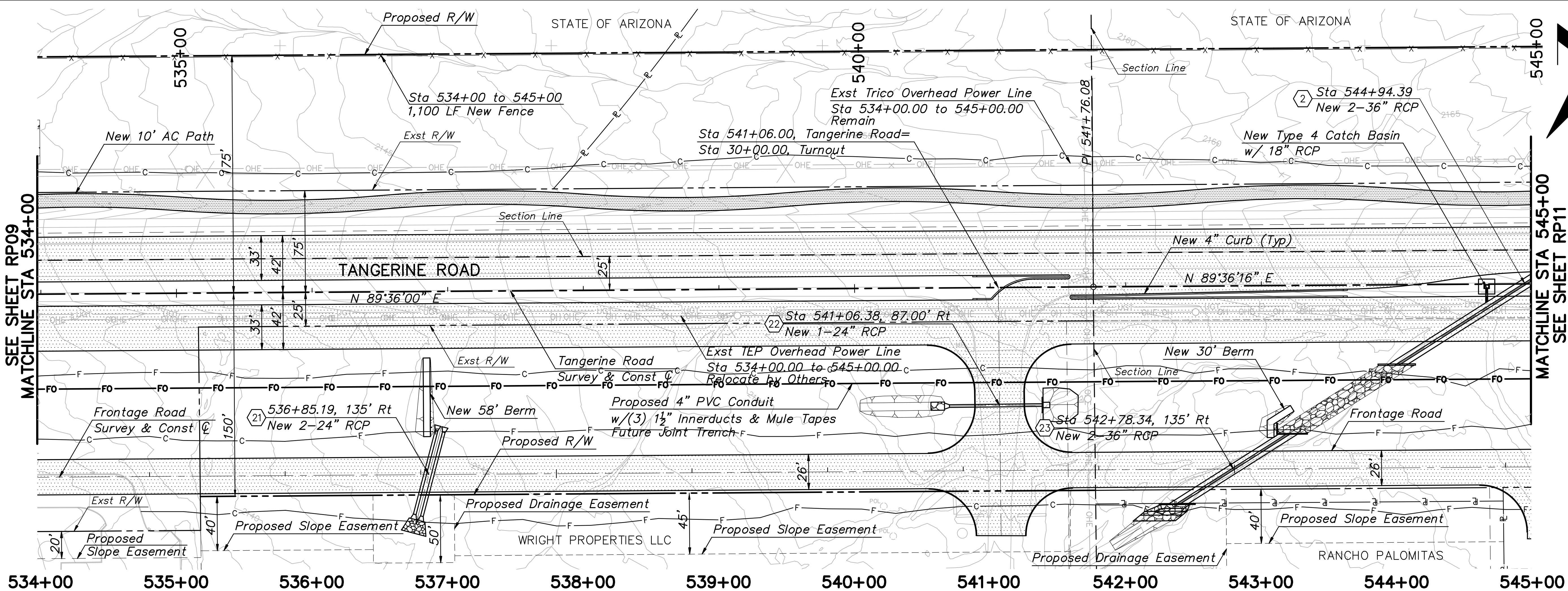
TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 512+00.00 TO STA 523+00.00
 TANGERINE ROAD



DATE	12/12
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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Blue Stake Center
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SCALES: HORIZ. 1"=40'
VERT. 1"=4'

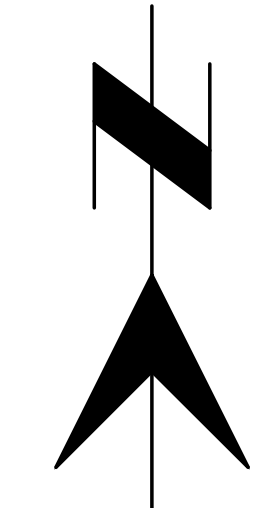
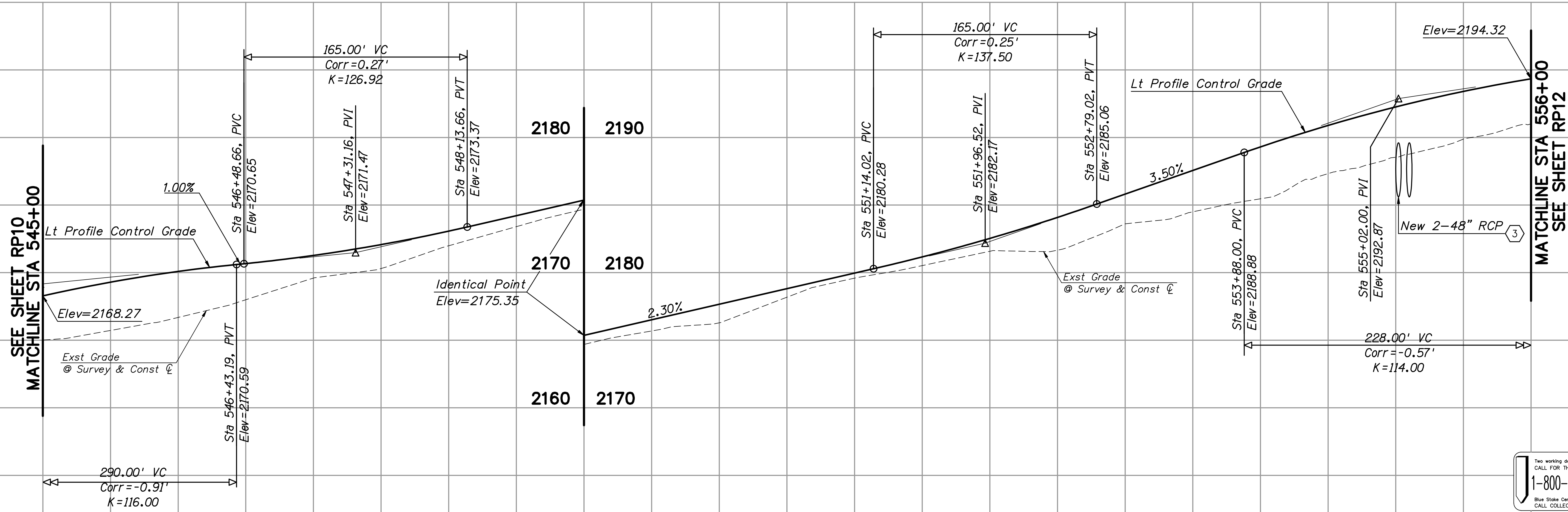
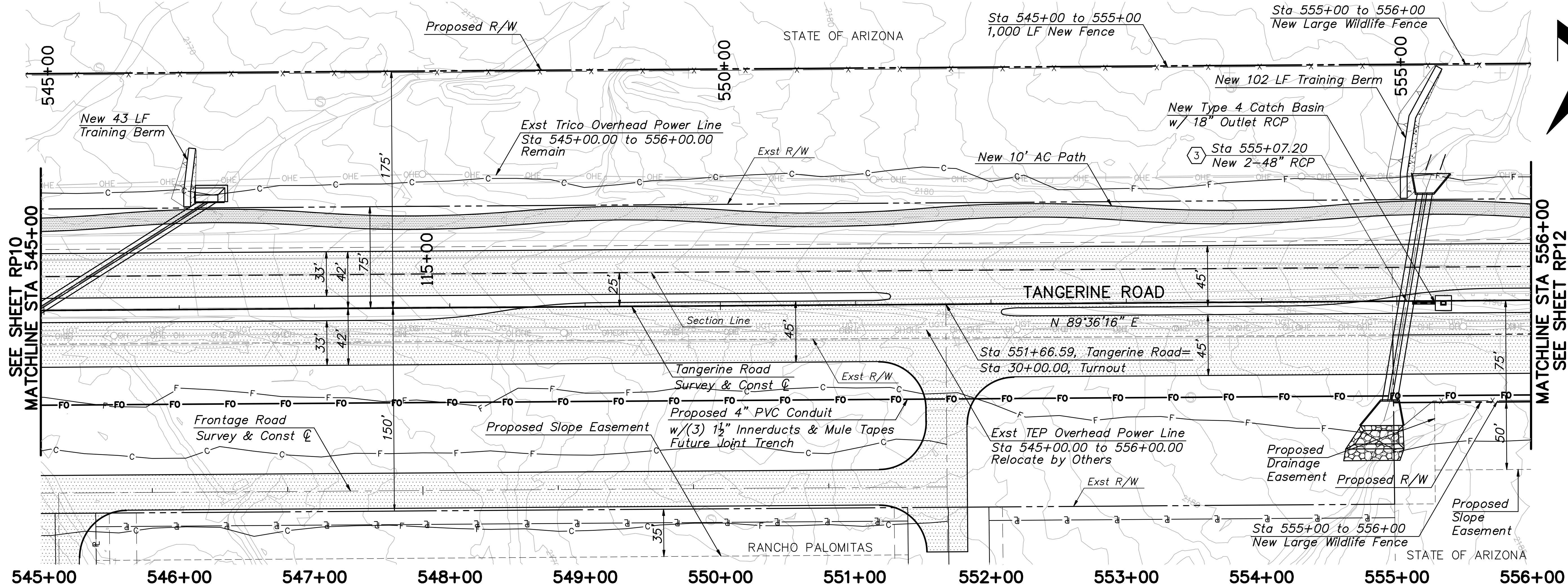
DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 534+00.00 TO STA 545+00.00
TANGERINE ROAD



DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

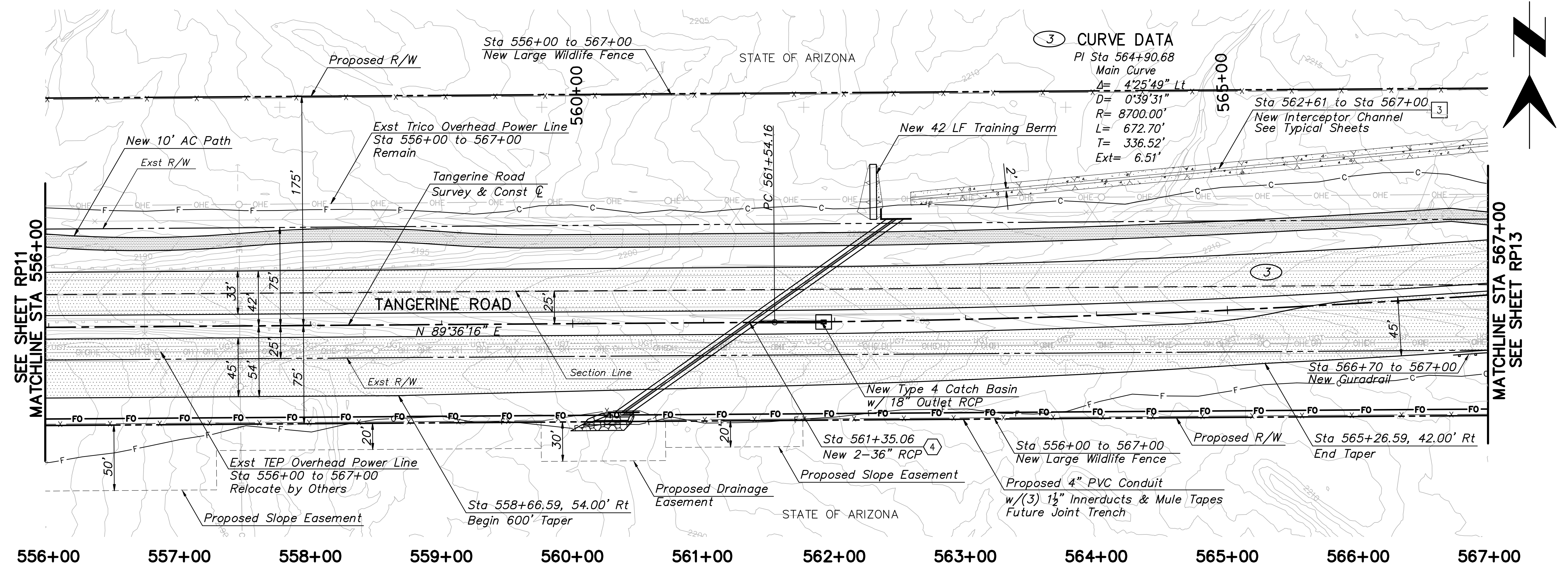
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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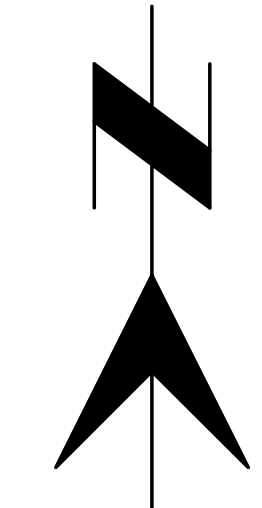
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TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 545+00.00 TO STA 556+00.00
TANGERINE ROAD

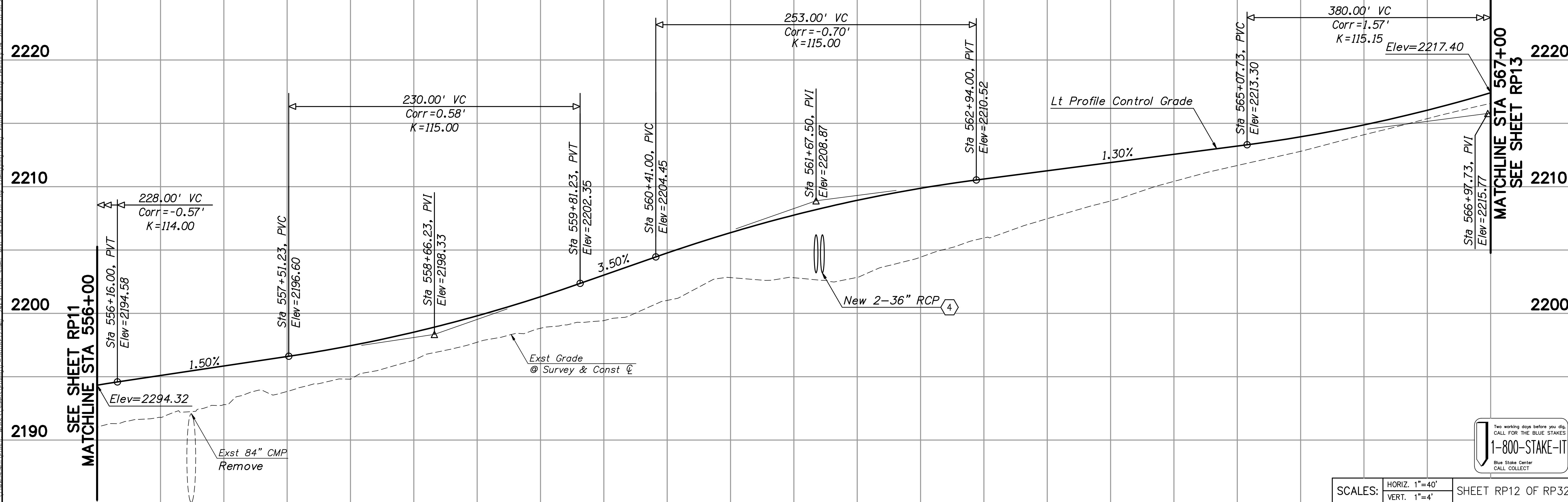
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1-800-STAKE-IT
Blue Stake Center
CALL COLLECT



3 CURVE DATA
 PI Sta 564+90.68
 Main Curve
 Δ = 4°25'49" Lt
 D = 0°39'31"
 R = 8700.00'
 L = 672.70'
 T = 336.52'
 Ext = 6.51'



556+00 557+00 558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00 566+00 567+00



Two working days before you dig,
 CALL FOR THE BLUE STAKES!
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 Blue Stake Center
 CALL COLLECT

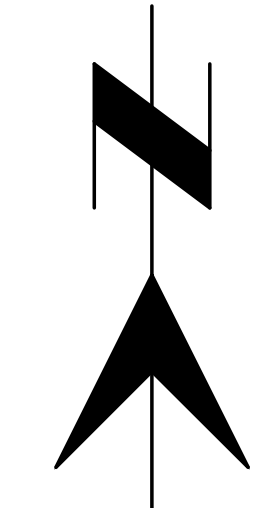
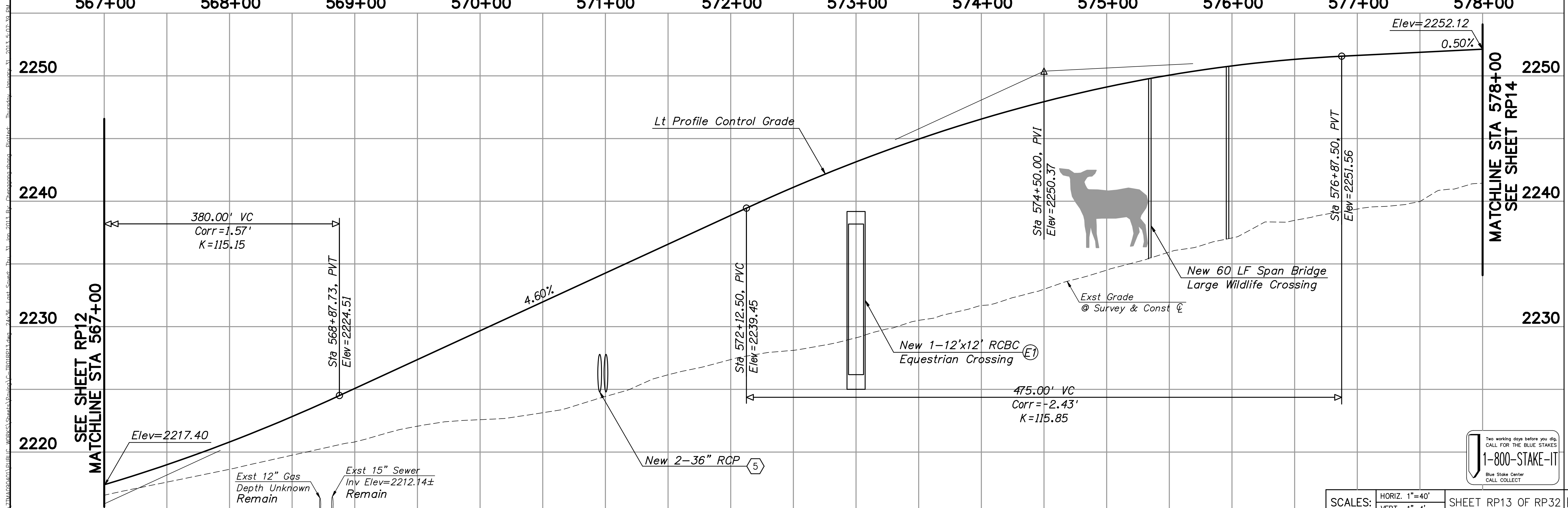
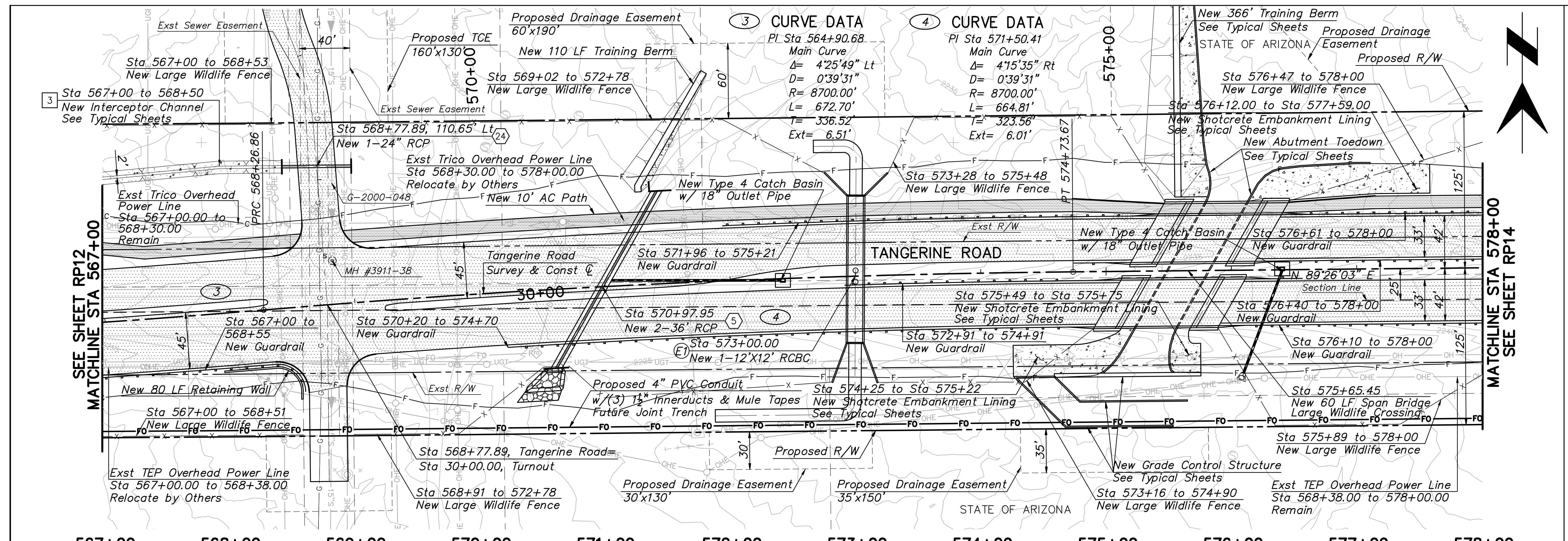
DATE	12/12
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 556+00.00 TO STA 567+00.00
 TANGERINE ROAD



DATE	12/12
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

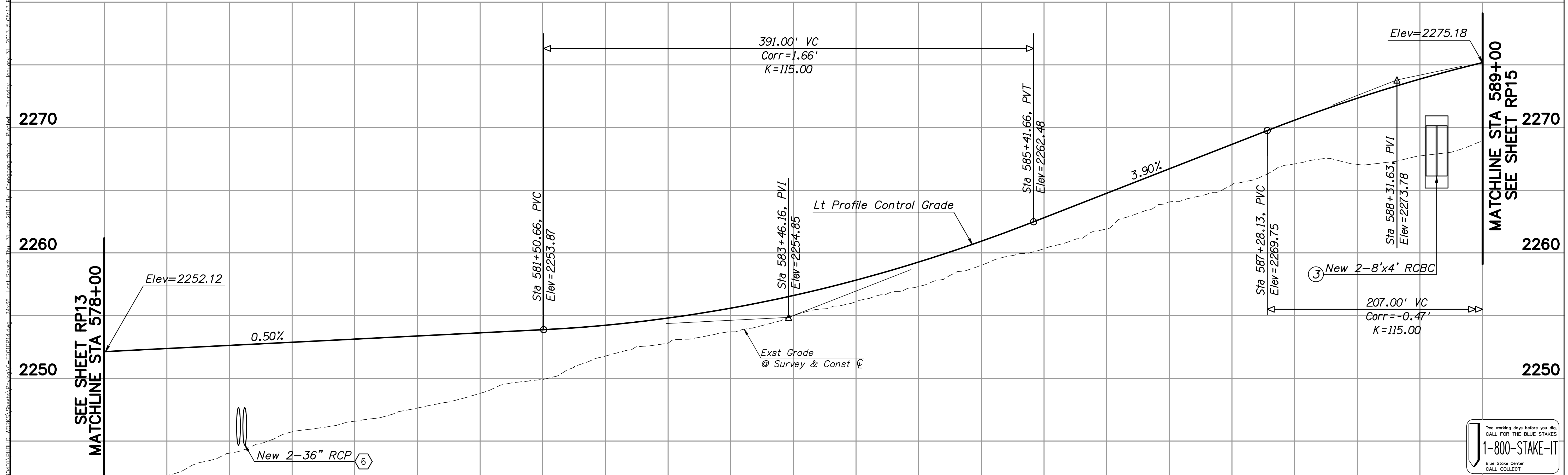
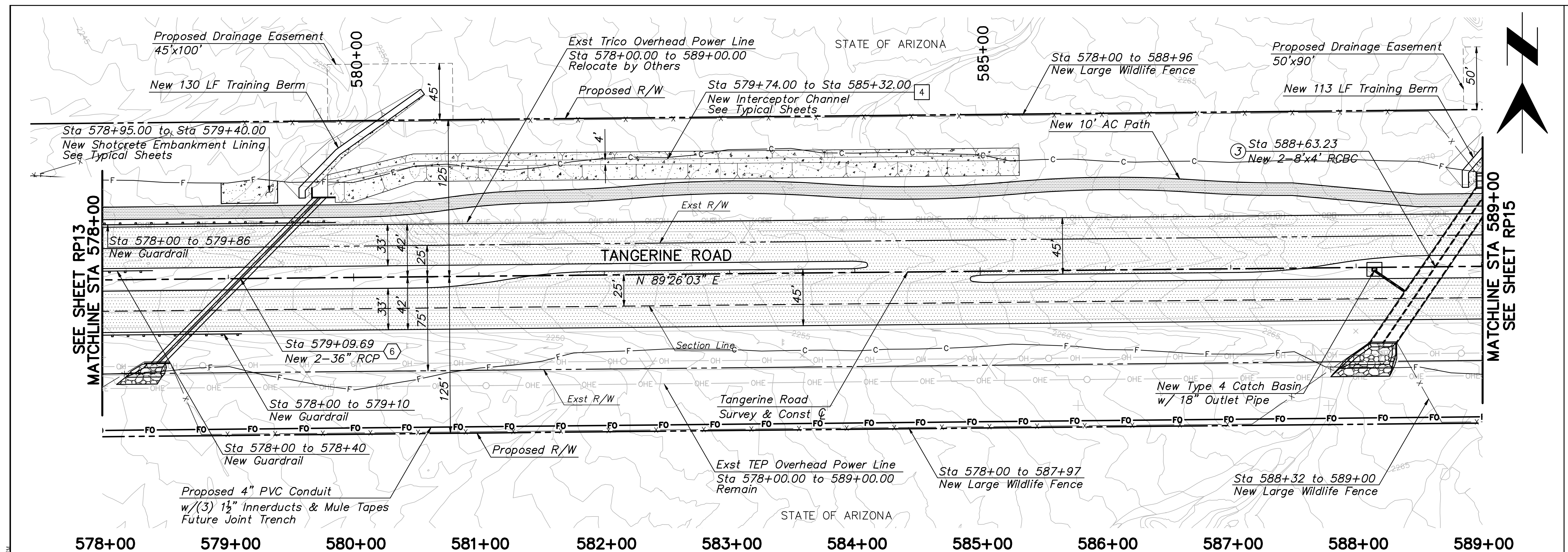
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
 ROADWAY PLAN AND PROFILE FOR
TANGERINE ROAD
 STA 567+00.00 TO STA 578+00.00
 TANGERINE ROAD

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 Blue Stake Center
 CALL COLLECT



Two working days before you dig,
CALL FOR THE BLUE STAKES!
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Blue Stake Center
CALL COLLECT

SCALES: HORIZ. 1"=40'
VERT. 1"=4'

SHEET RP14 OF RP32

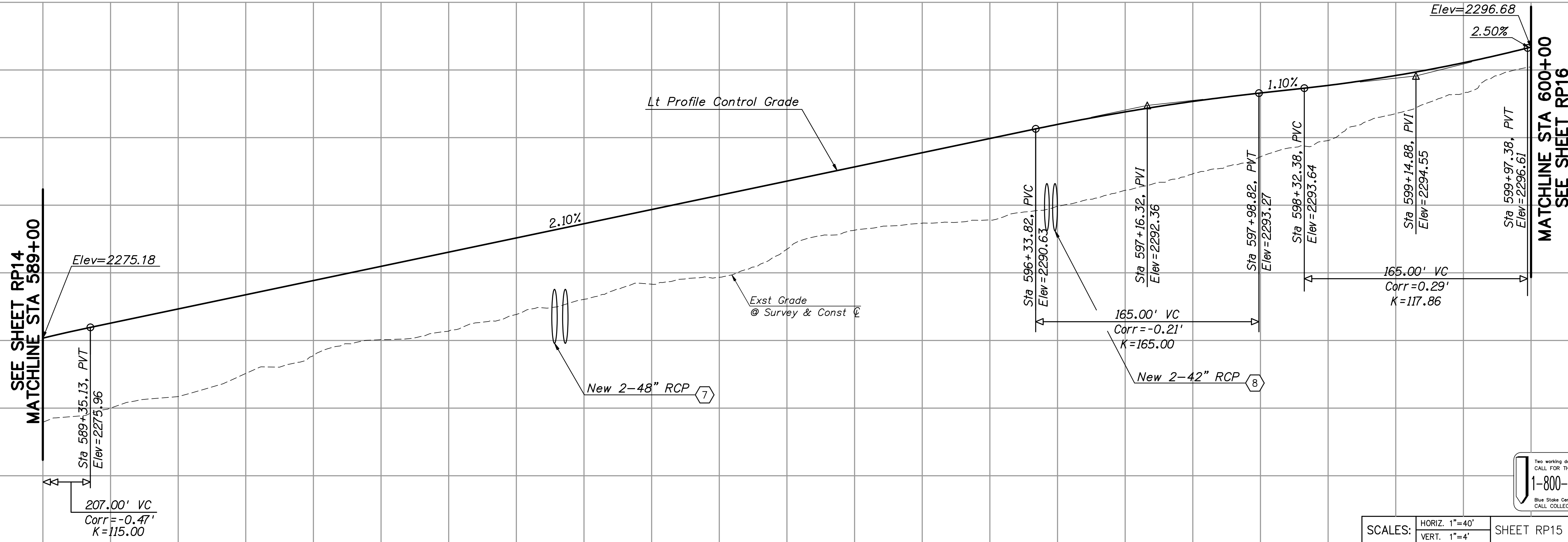
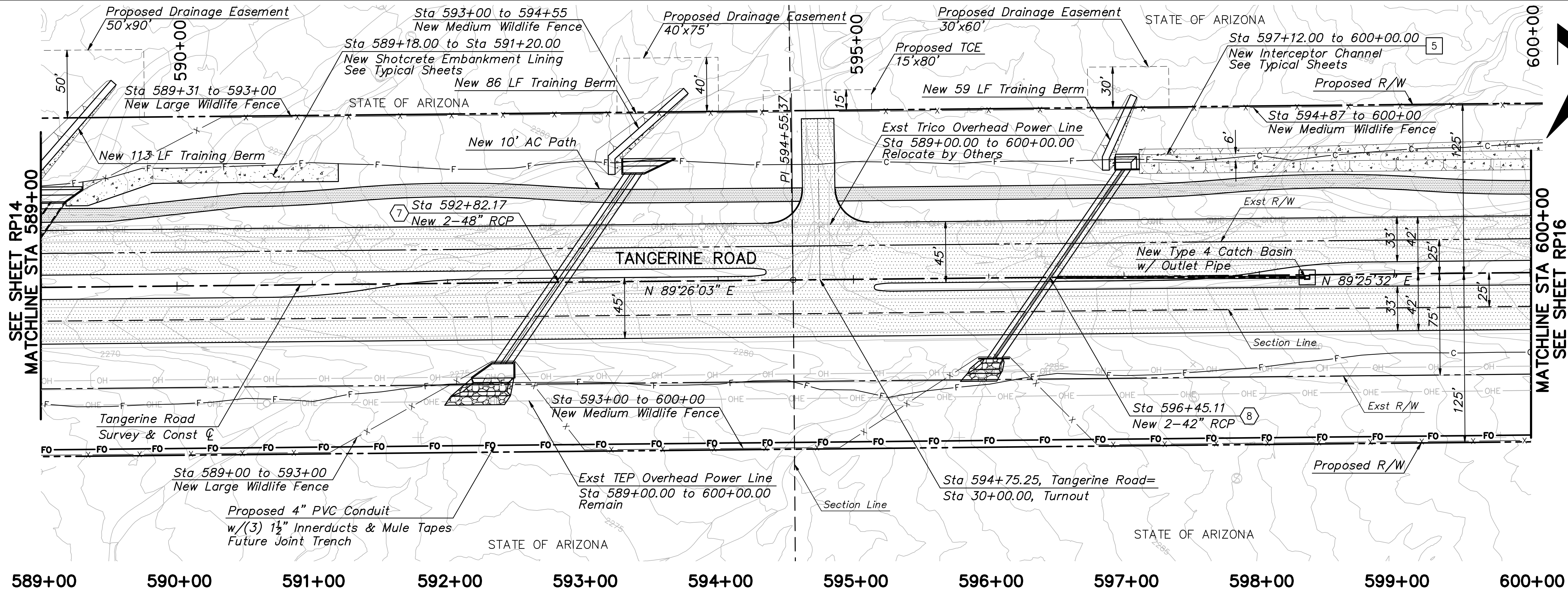
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DESIGNED:	CZ		12/12
DRAWN:	CZ		12/12
CHECKED:	AA		12/12
PROJ. ENG.:	AA		12/12

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ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 578+00.00 TO STA 589+00.00
TANGERINE ROAD

TOWN OF MARANA - PROJECT NO. 2005-061
PAGE 31 OF 143



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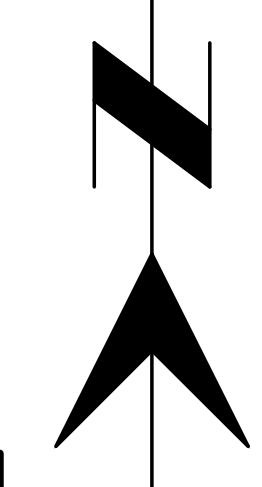
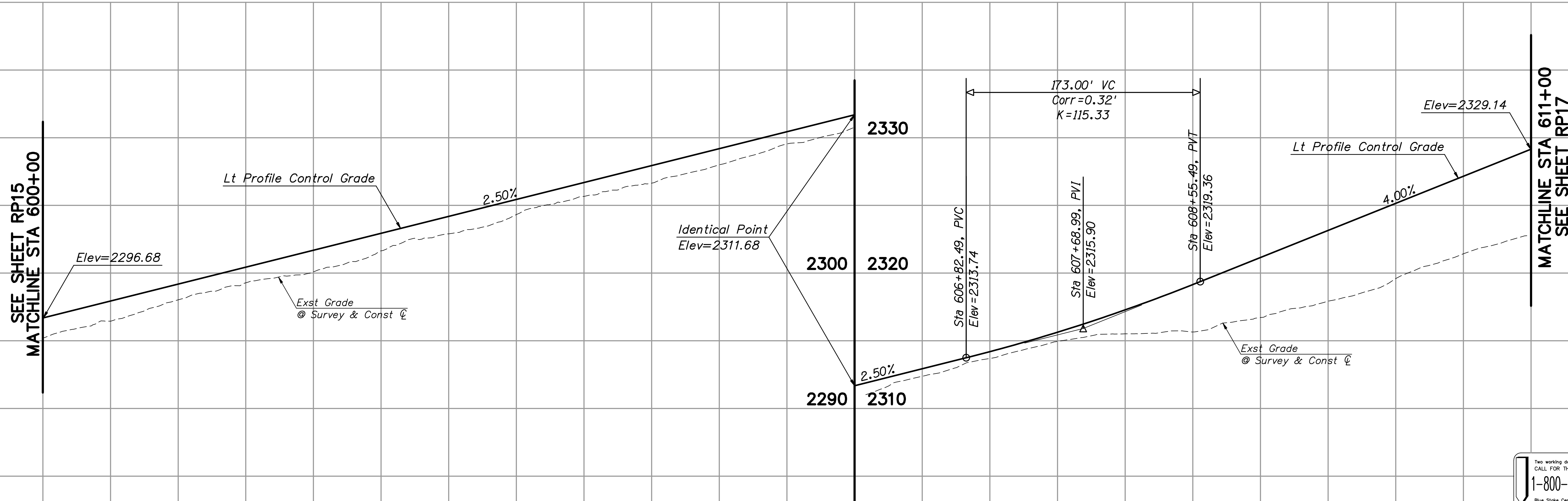
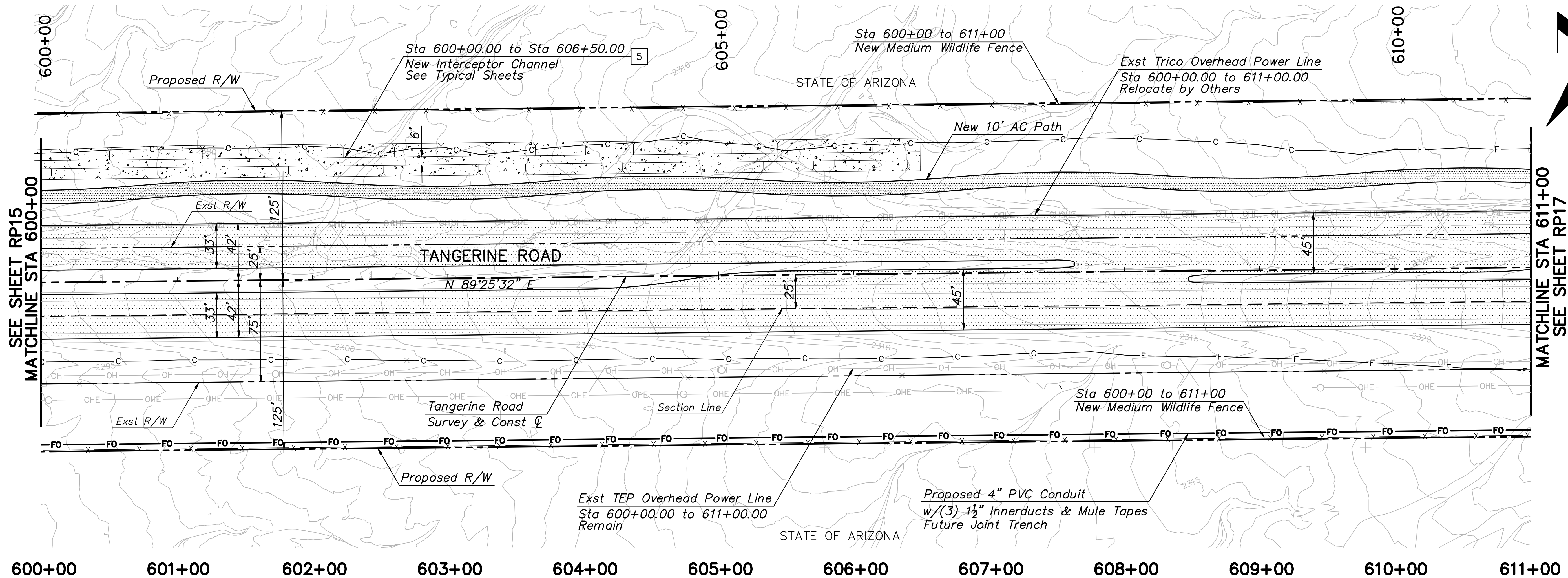
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TANGERINE ROAD

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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

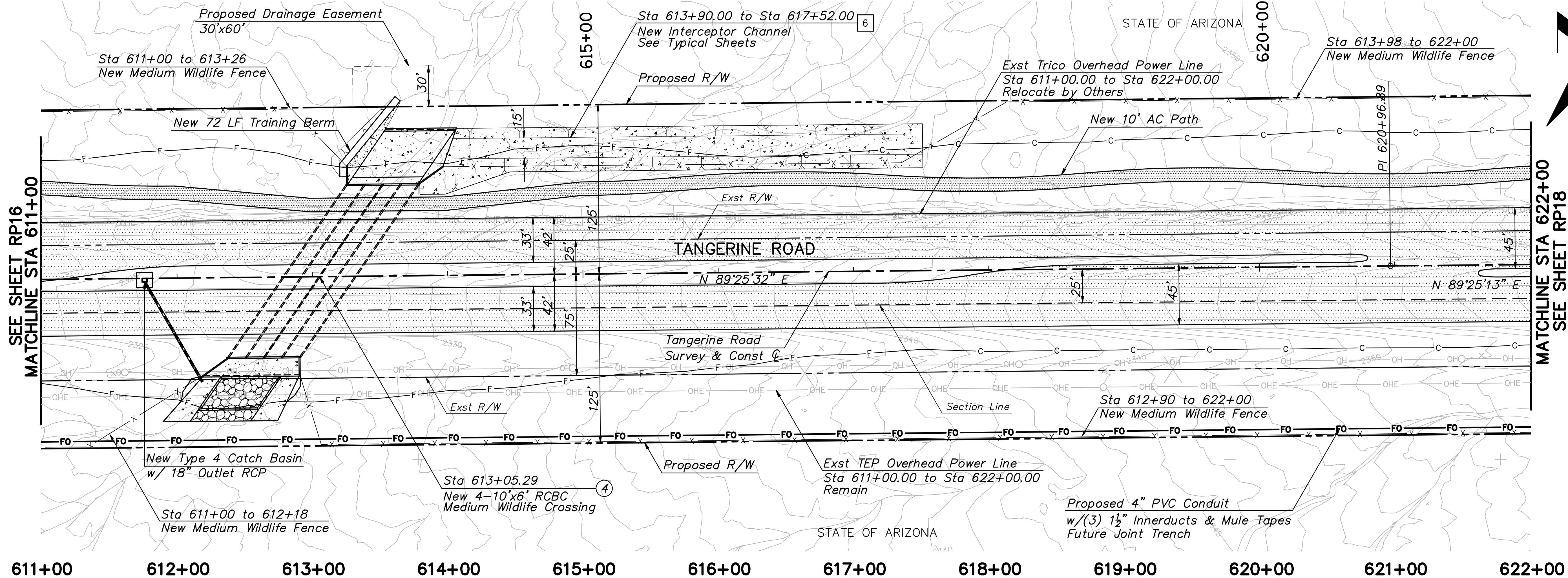
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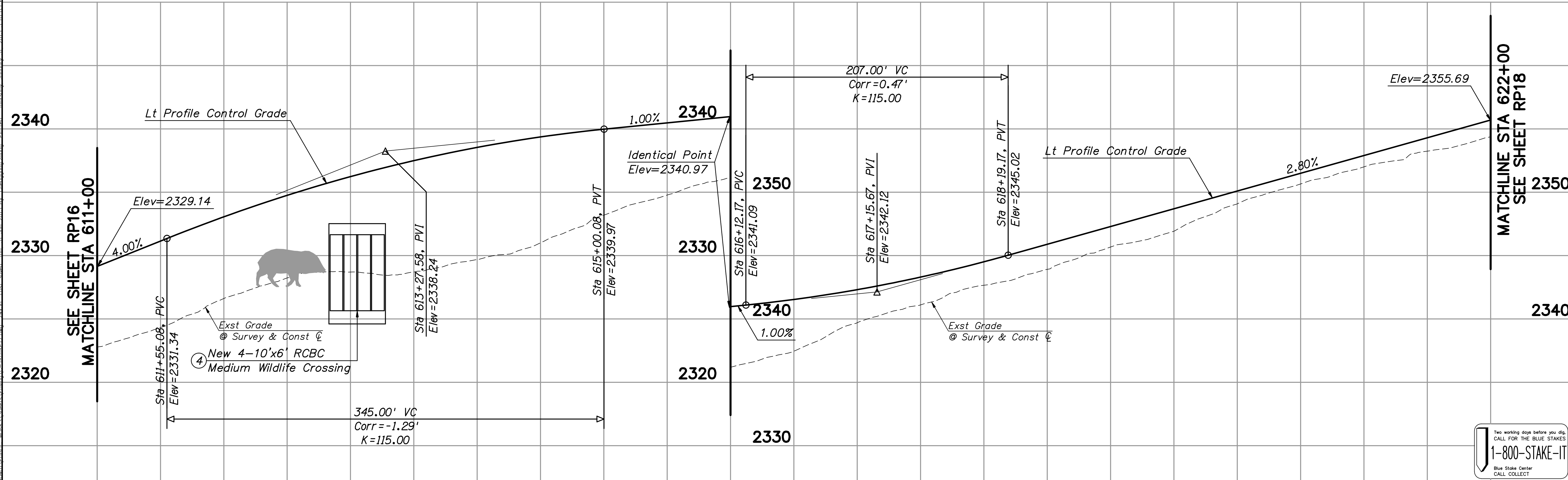
TOWN OF MARANA - PROJECT NO. 2005-061

ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 600+00.00 TO STA 611+00.00
TANGERINE ROAD

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611+00 612+00 613+00 614+00 615+00 616+00 617+00 618+00 619+00 620+00 621+00 622+00



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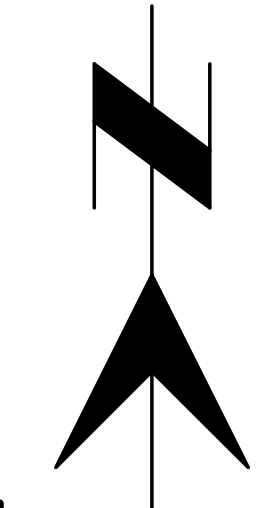
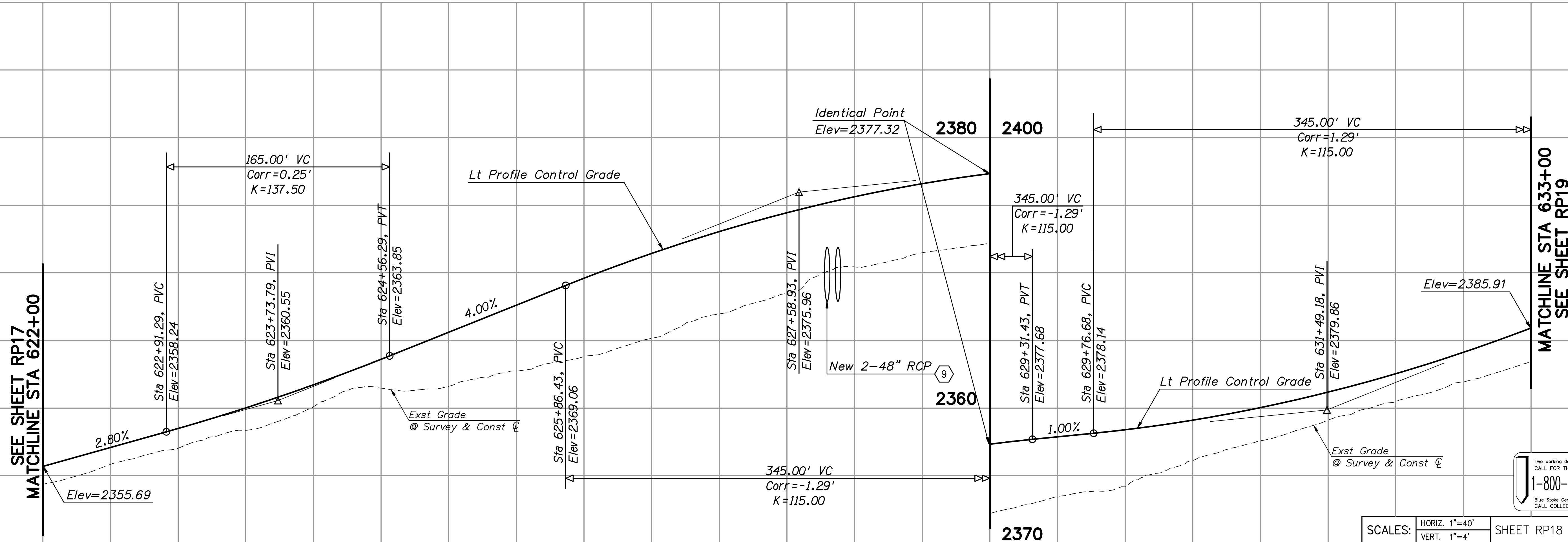
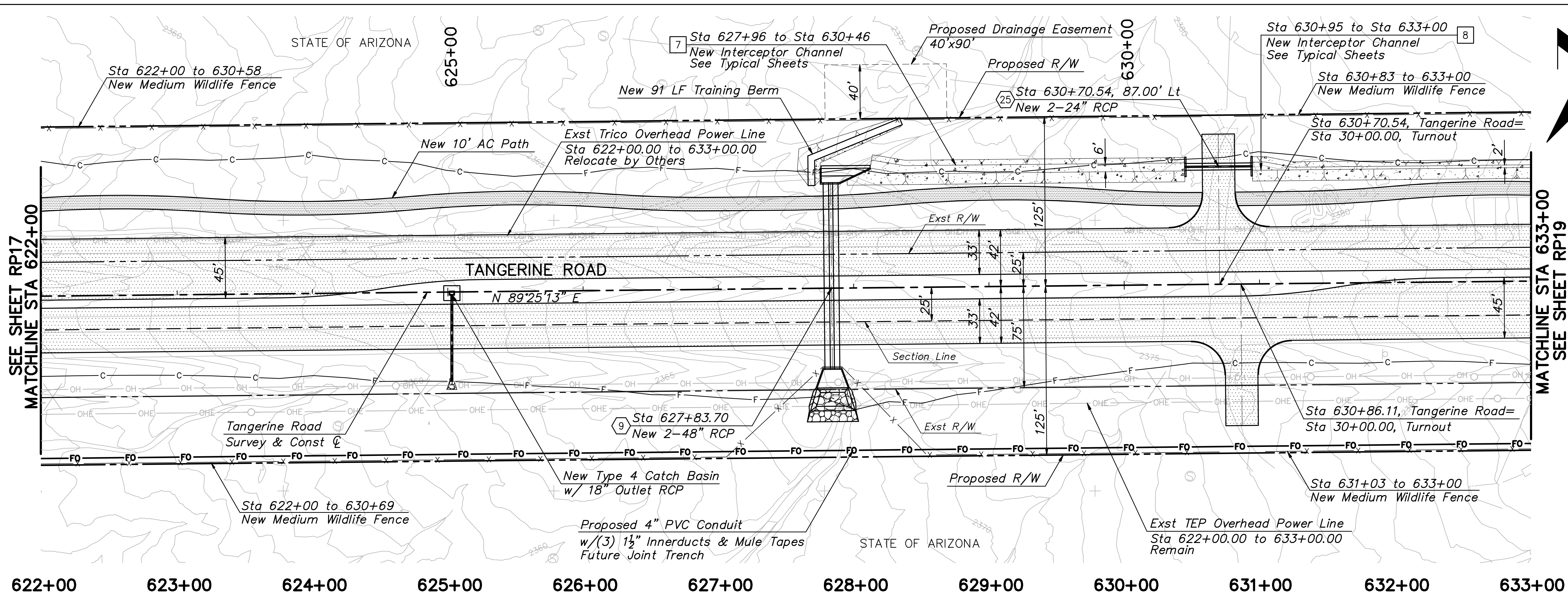
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DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

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TANGERINE ROAD



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PROJ. ENG.:	AA

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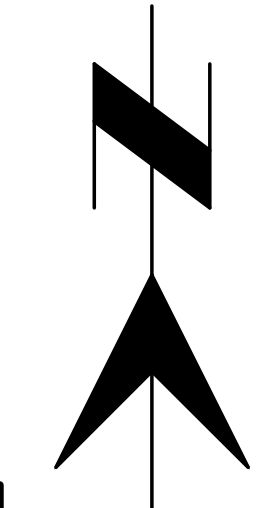
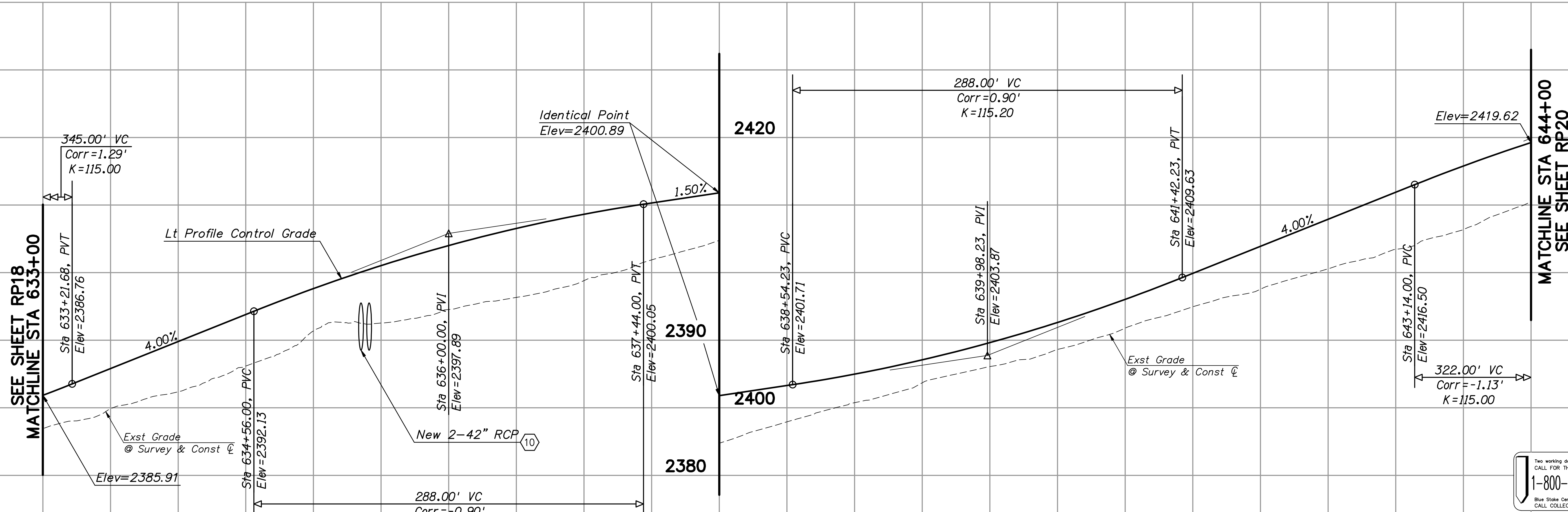
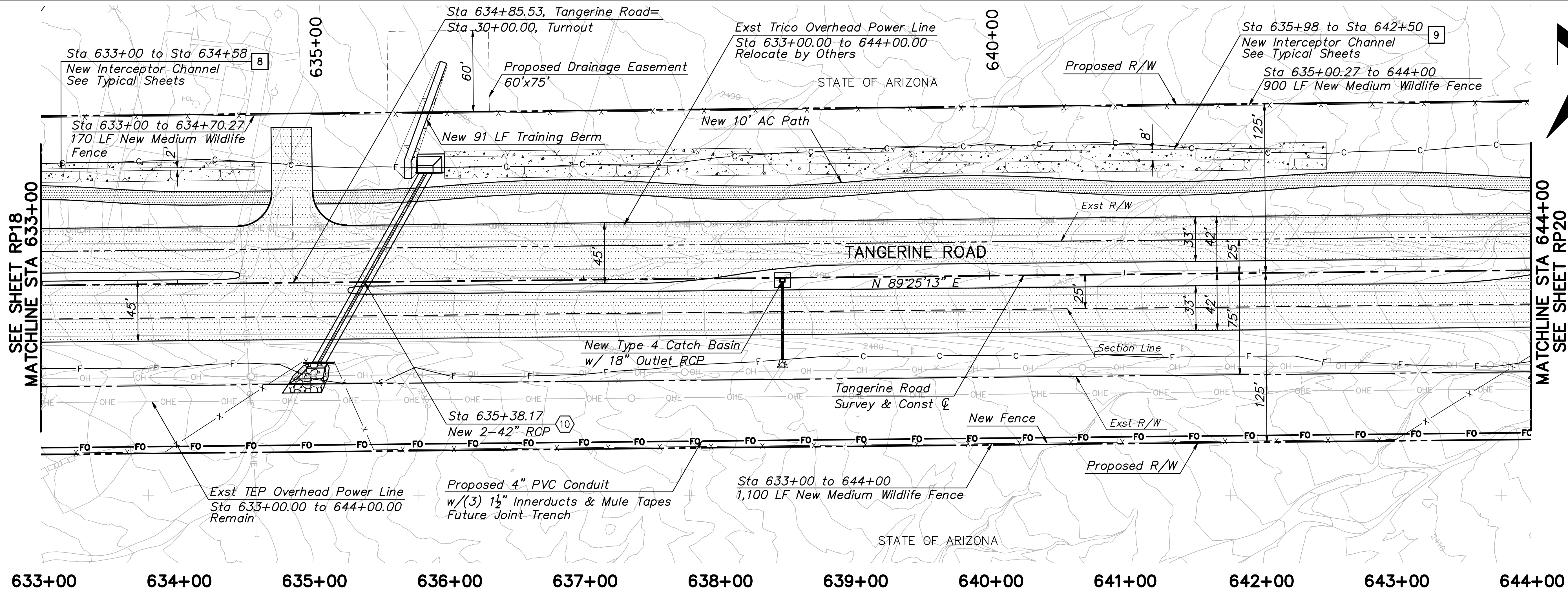
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PROJ. ENG.:	AA

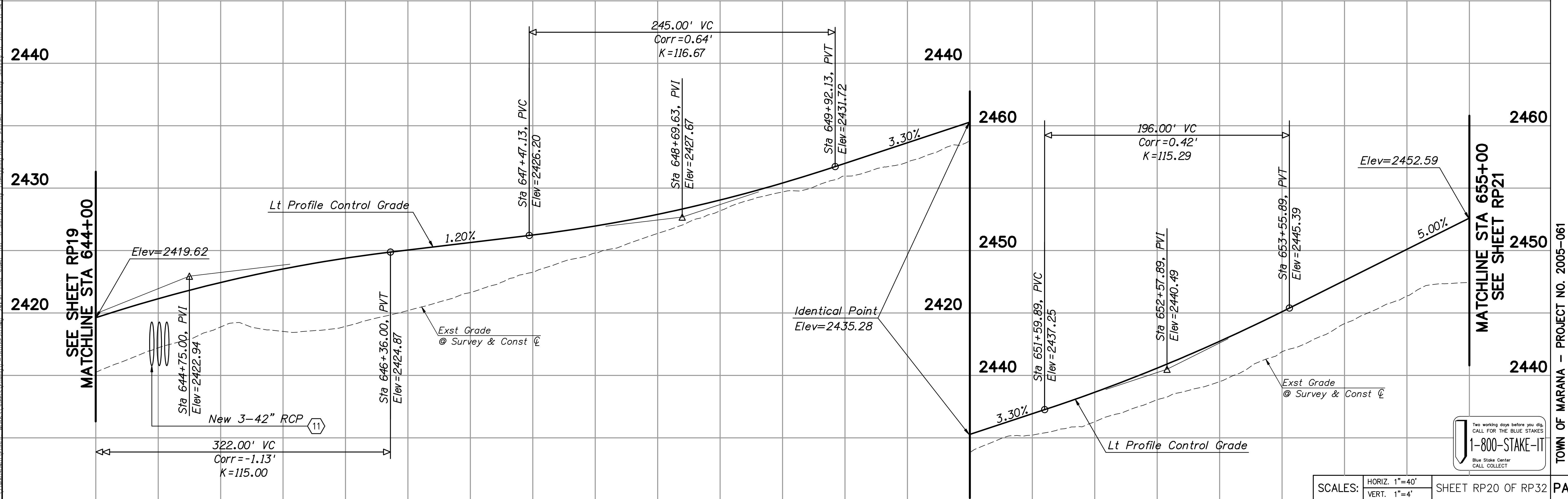
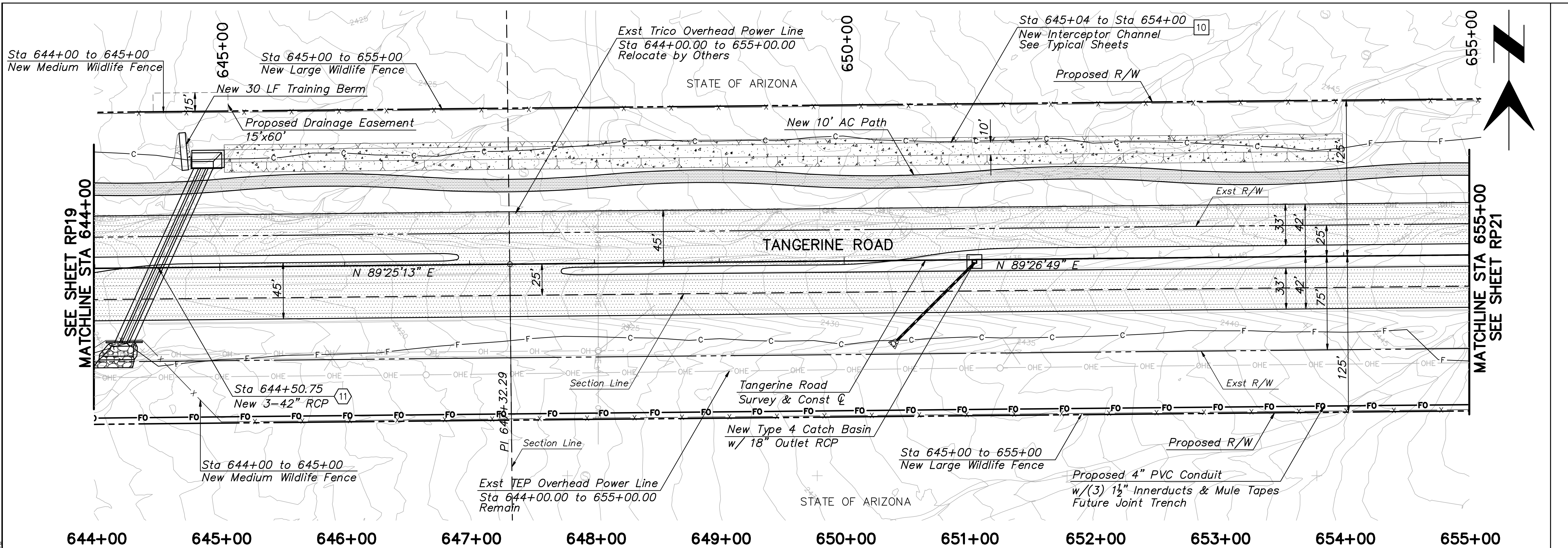
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FOR
TANGERINE ROAD
STA 633+00.00 TO STA 644+00.00
TANGERINE ROAD

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PROJ. ENG.:	AA	DATE:	12/12

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ROADWAY PLAN AND PROFILE

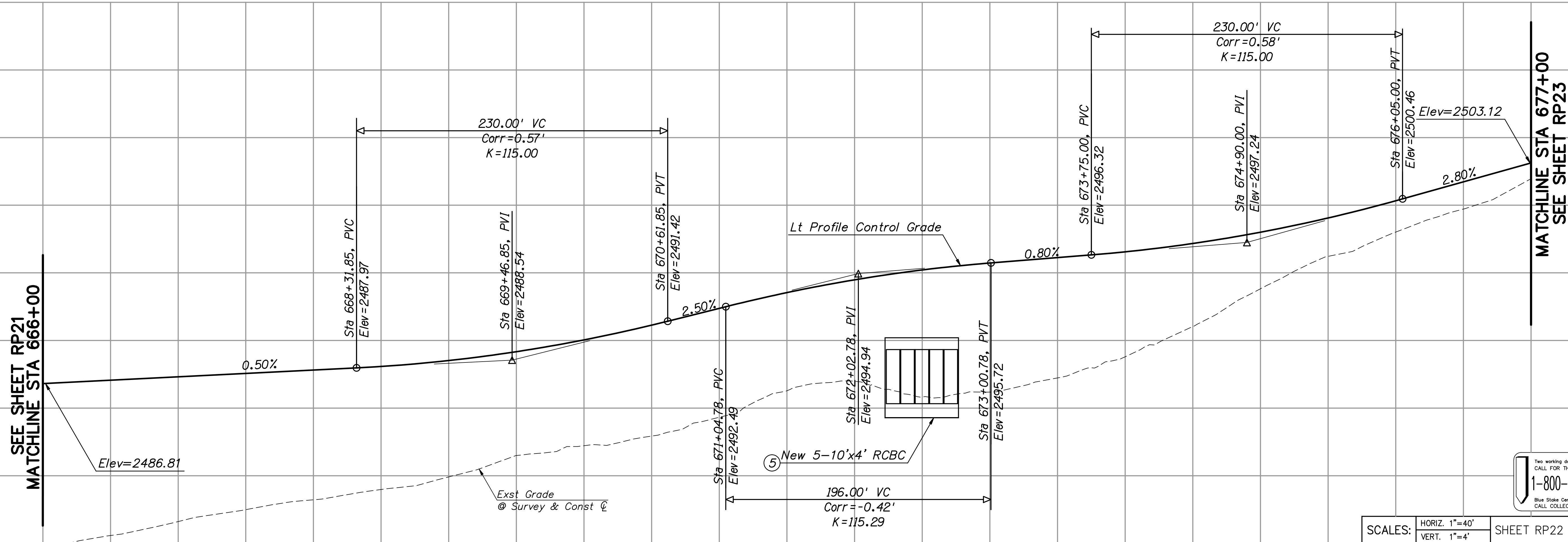
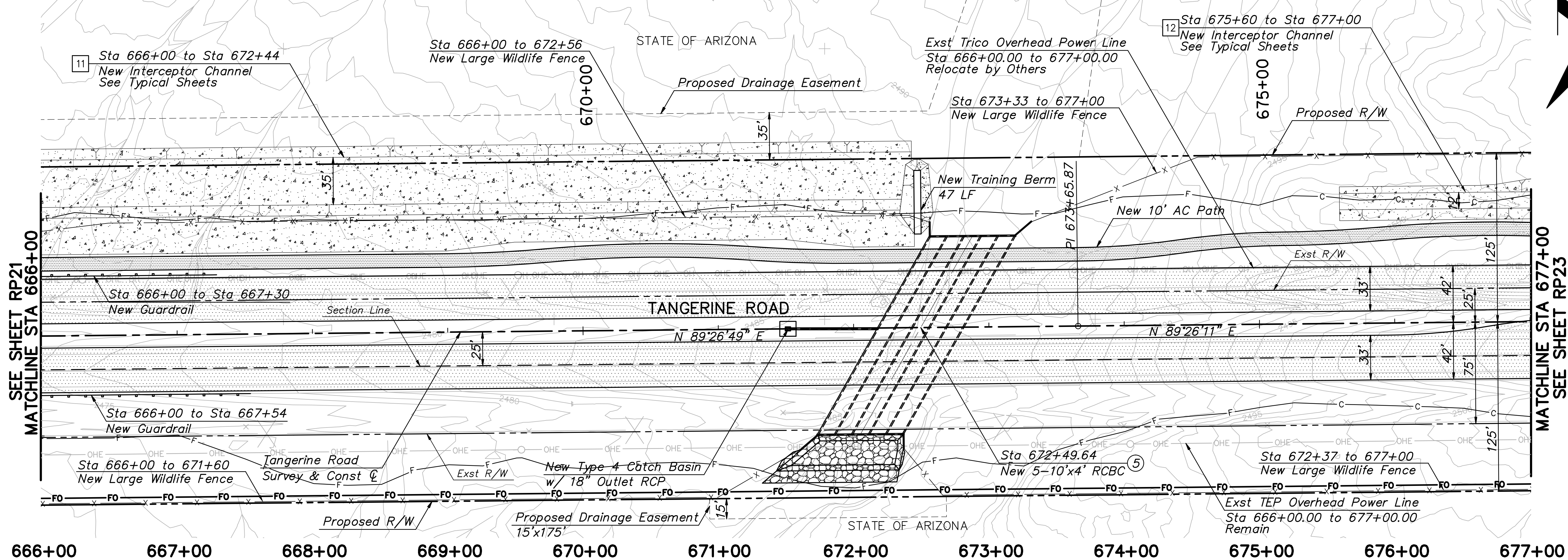
SCALES: HORIZ. 1"=40'
VERT. 1"=4'

SHEET RP20 OF RP32

PAGE 37 OF 143

SEE SHEET RP21
MATCHLINE STA 666+00

MATCHLINE STA 677+00
SEE SHEET RP23



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PROJ. ENG.:	AA		

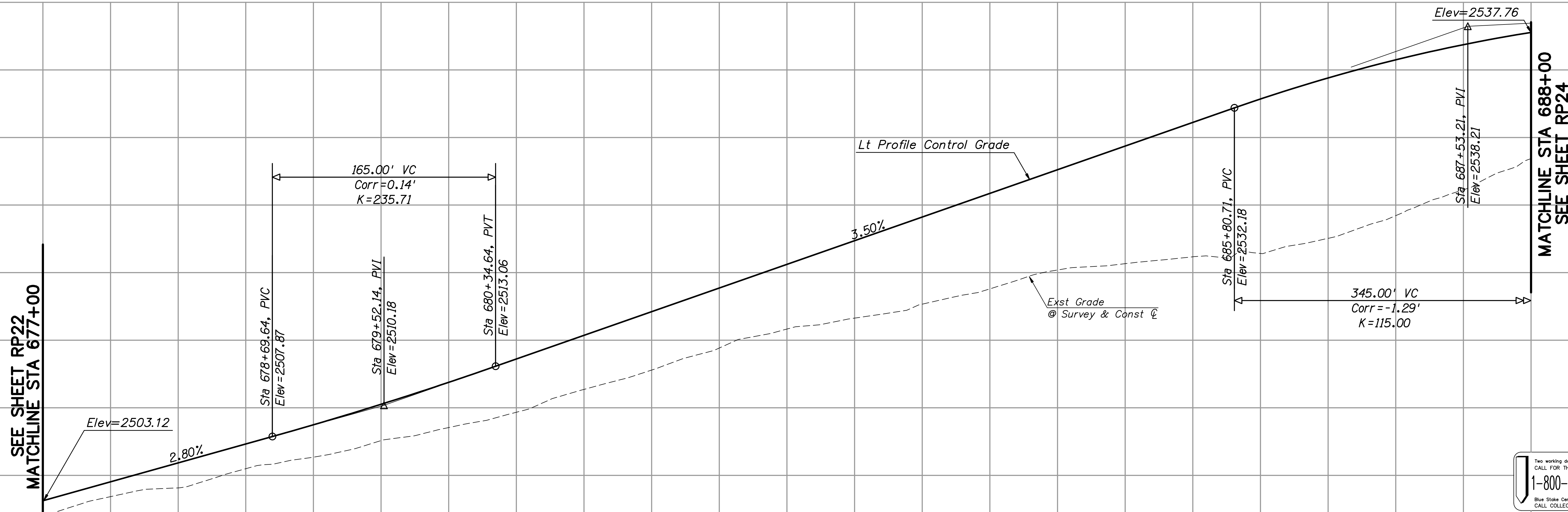
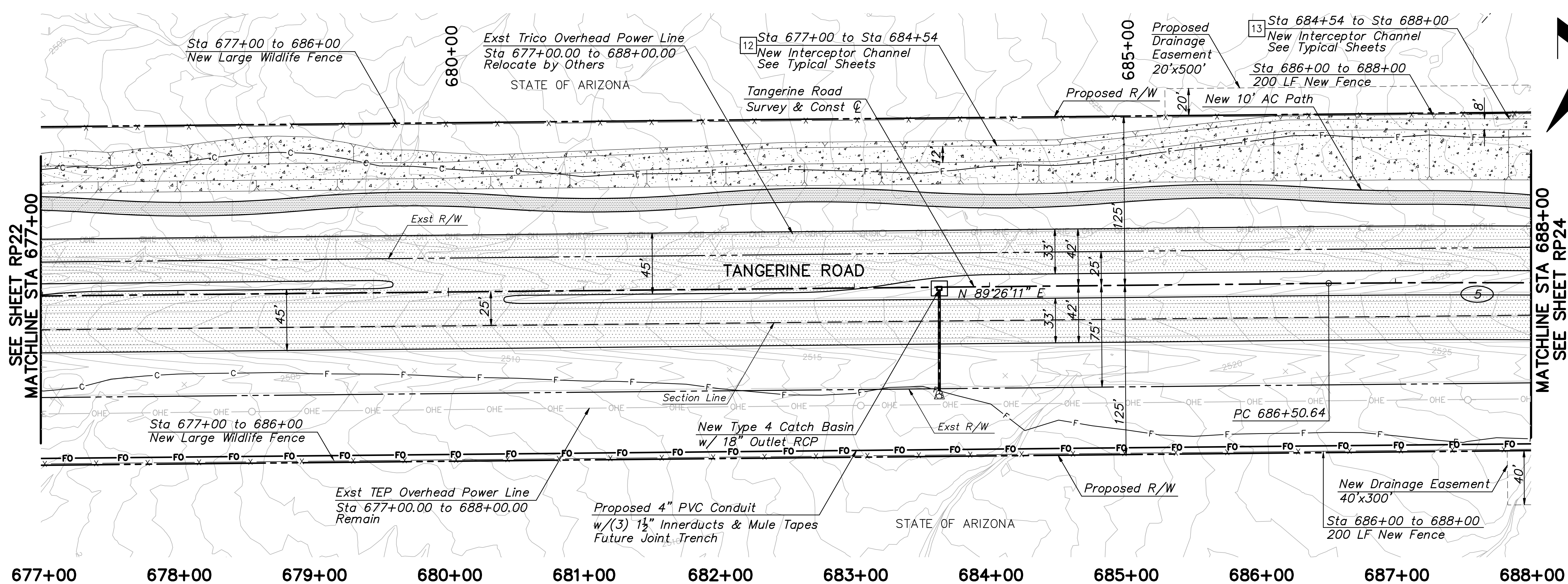
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FOR
TANGERINE ROAD
STA 666+00.00 TO STA 677+00.00
TANGERINE ROAD

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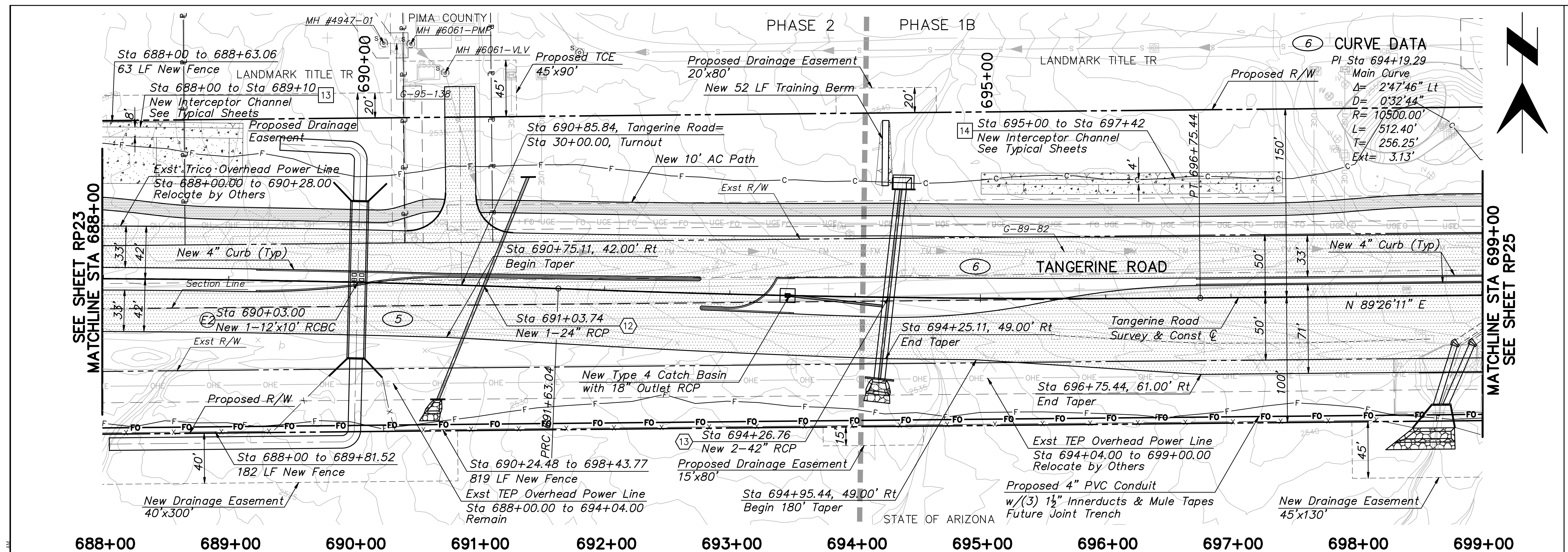
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PROJ. ENG.:	AA

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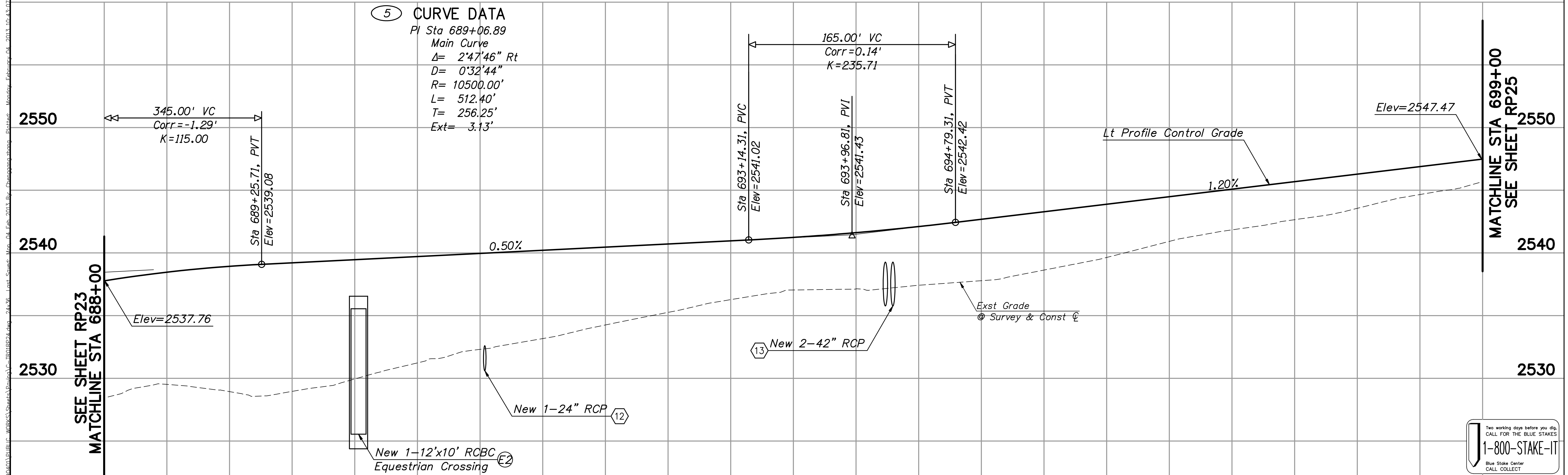
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FOR
TANGERINE ROAD
STA 677+00.00 TO STA 686+00.00
TANGERINE ROAD



6 CURVE DATA
 PI Sta 694+19.29
 Main Curve
 $\Delta = 2'47.46''$ Lt
 $D = 0'32.44''$
 $R = 10500.00'$
 $L = 512.40'$
 $T = 256.25'$
 $Ext = 3.13'$

5 CURVE DATA
 PI Sta 689+06.89
 Main Curve
 $\Delta = 2'47.46''$ Rt
 $D = 0'32.44''$
 $R = 10500.00'$
 $L = 512.40'$
 $T = 256.25'$
 $Ext = 3.13'$



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DATE	12/12
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DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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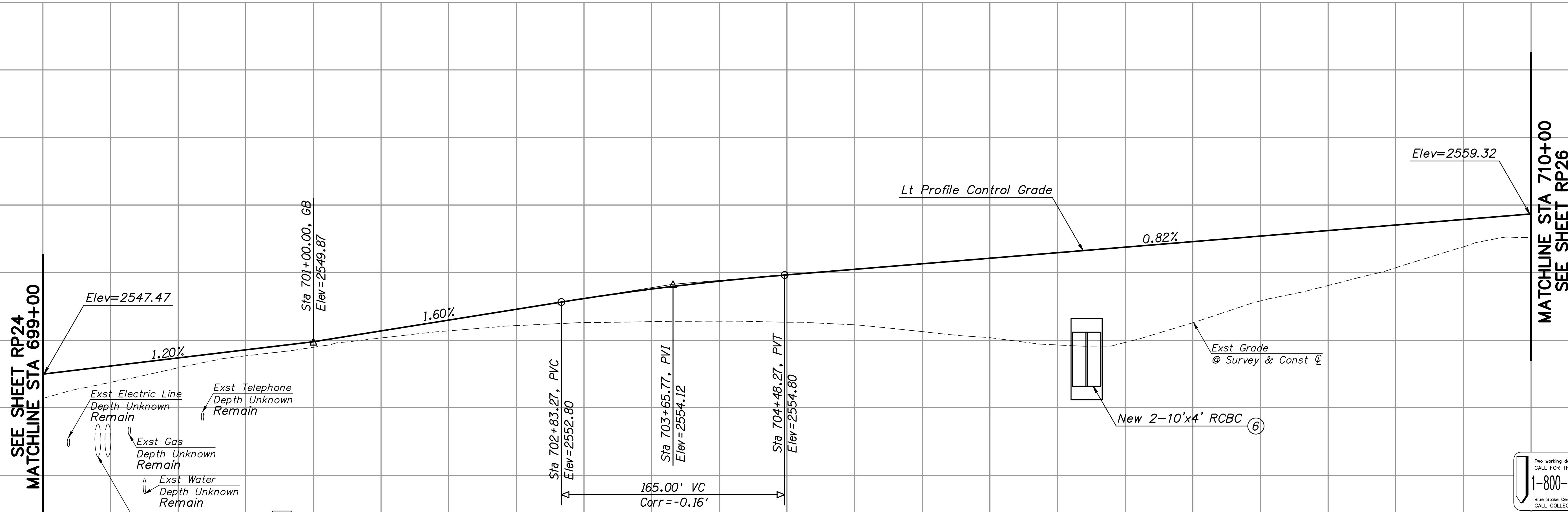
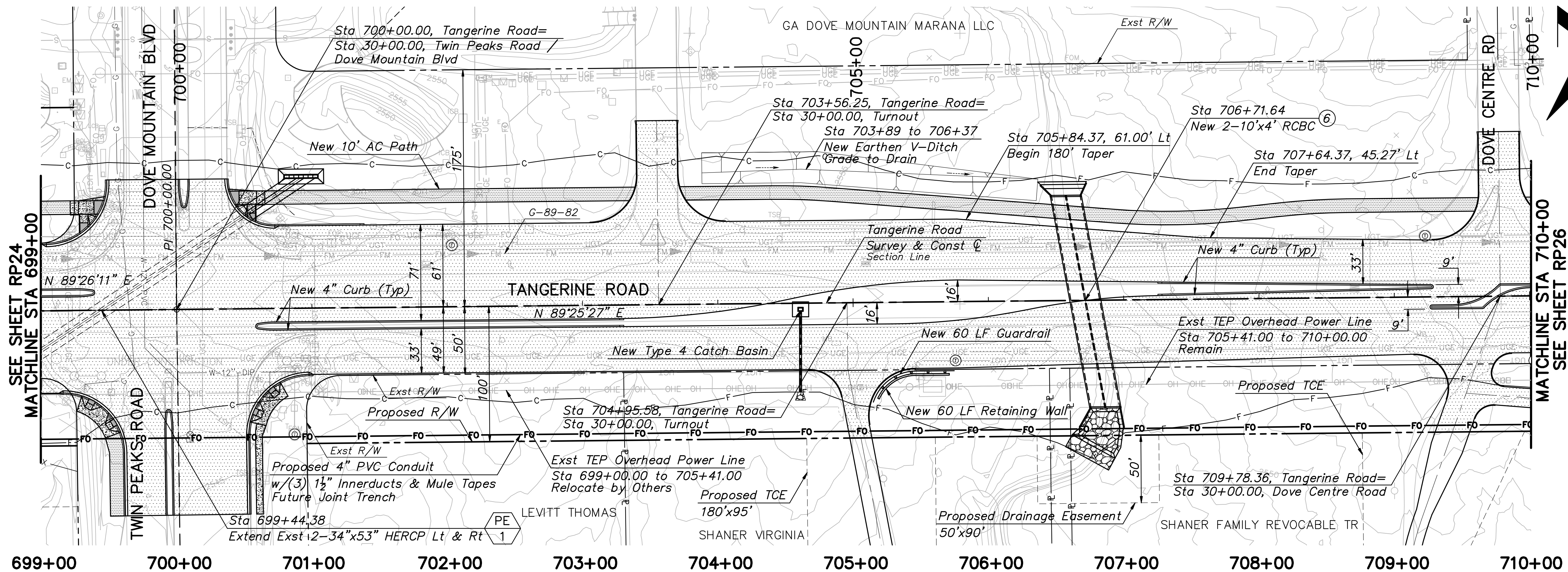
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 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 688+00.00 TO STA 699+00.00
 TANGERINE ROAD

SCALE: HORIZ. 1"=40'
 VERT. 1"=4'

SHEET RP24 OF RP32

PAGE 41 OF 143



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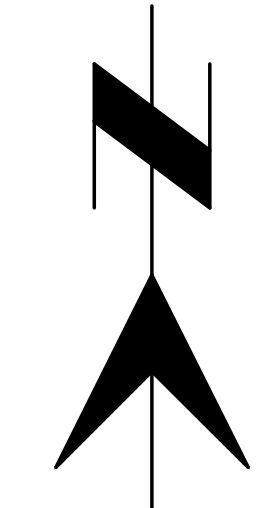
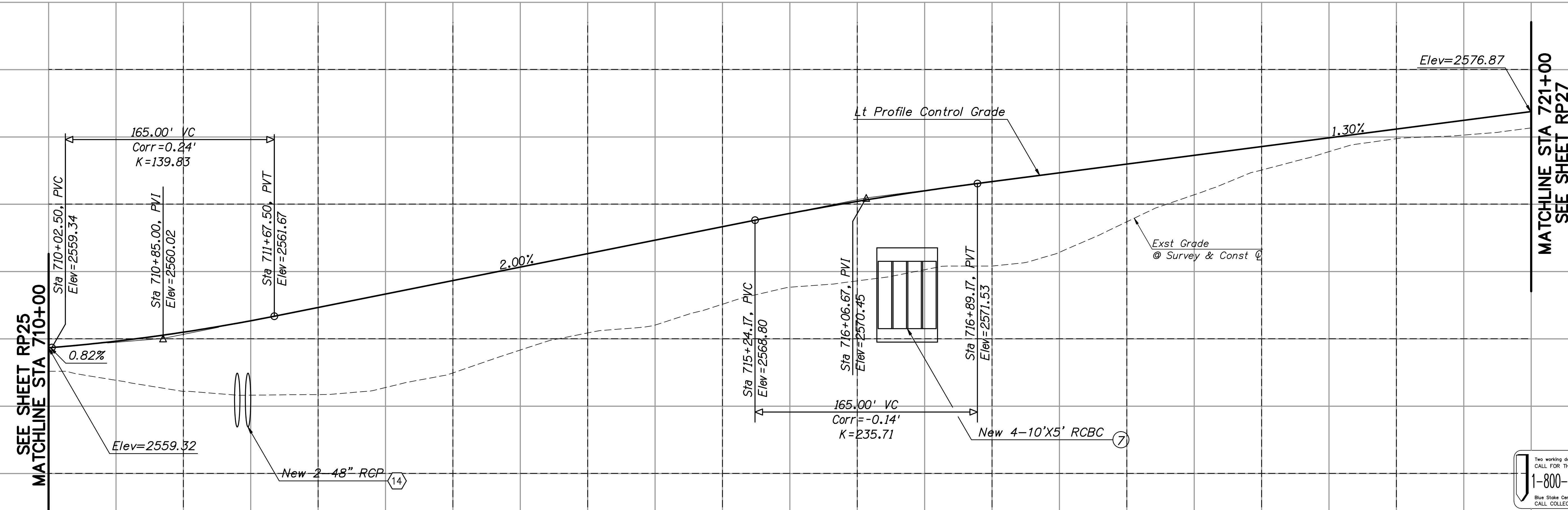
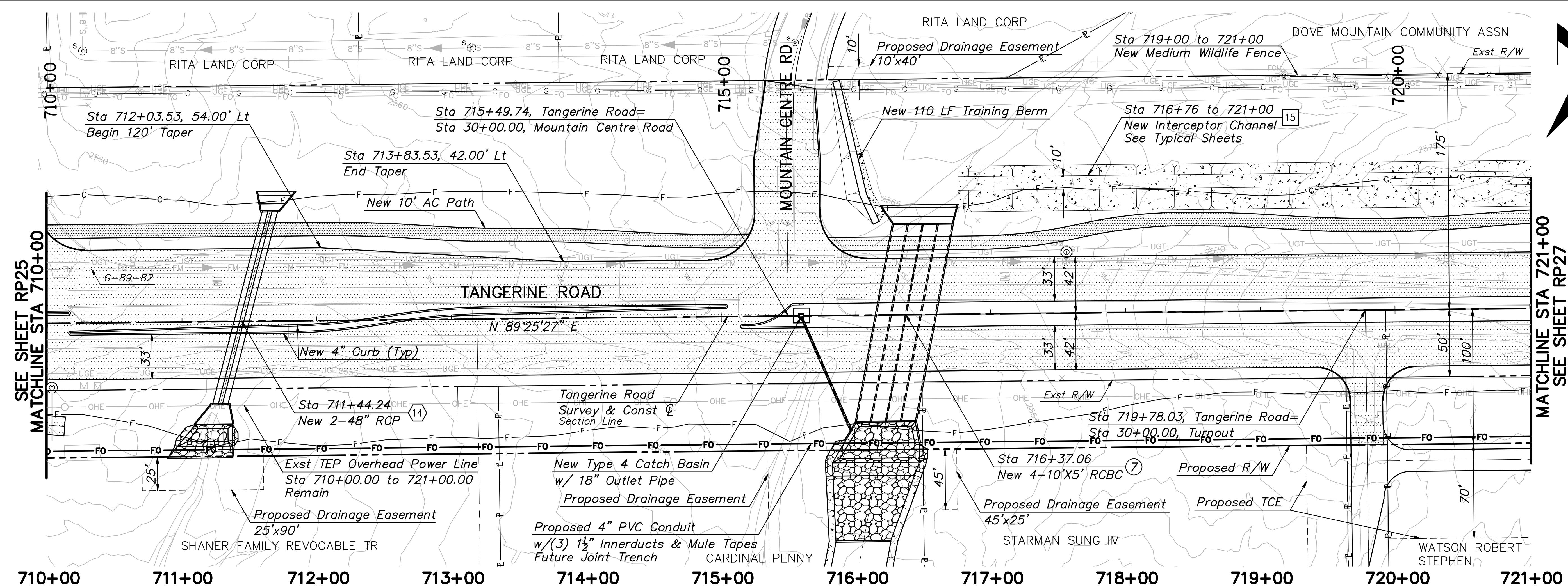
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FOR
TANGERINE ROAD
STA 699+00.00 TO STA 710+00.00
TANGERINE ROAD



SEE SHEET RP25
MATCHLINE STA 710+00

MATCHLINE STA 721+00
SEE SHEET RP27

710+00 711+00 712+00 713+00 714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00

SEE SHEET RP25
MATCHLINE STA 710+00

MATCHLINE STA 721+00
SEE SHEET RP27

SCALES: HORIZ. 1"=40'
VERT. 1"=4'



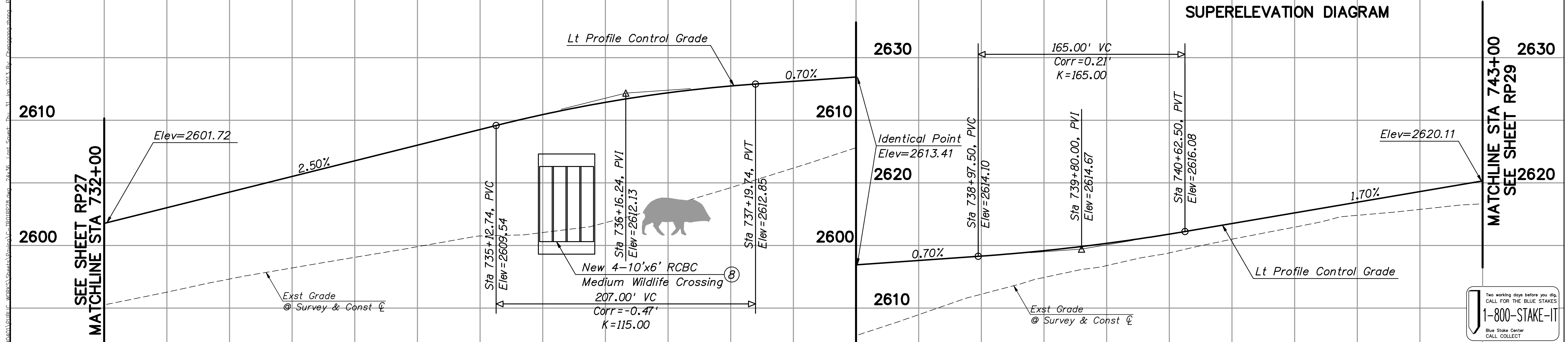
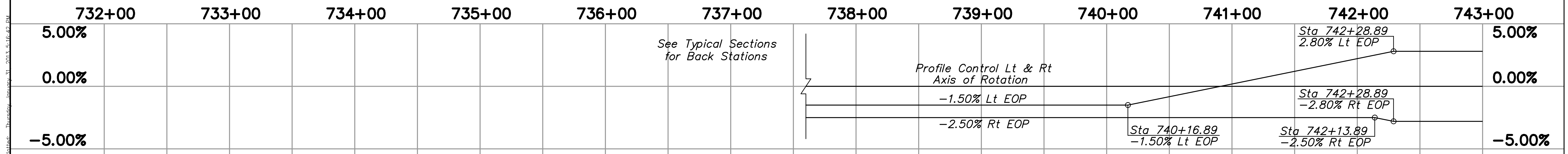
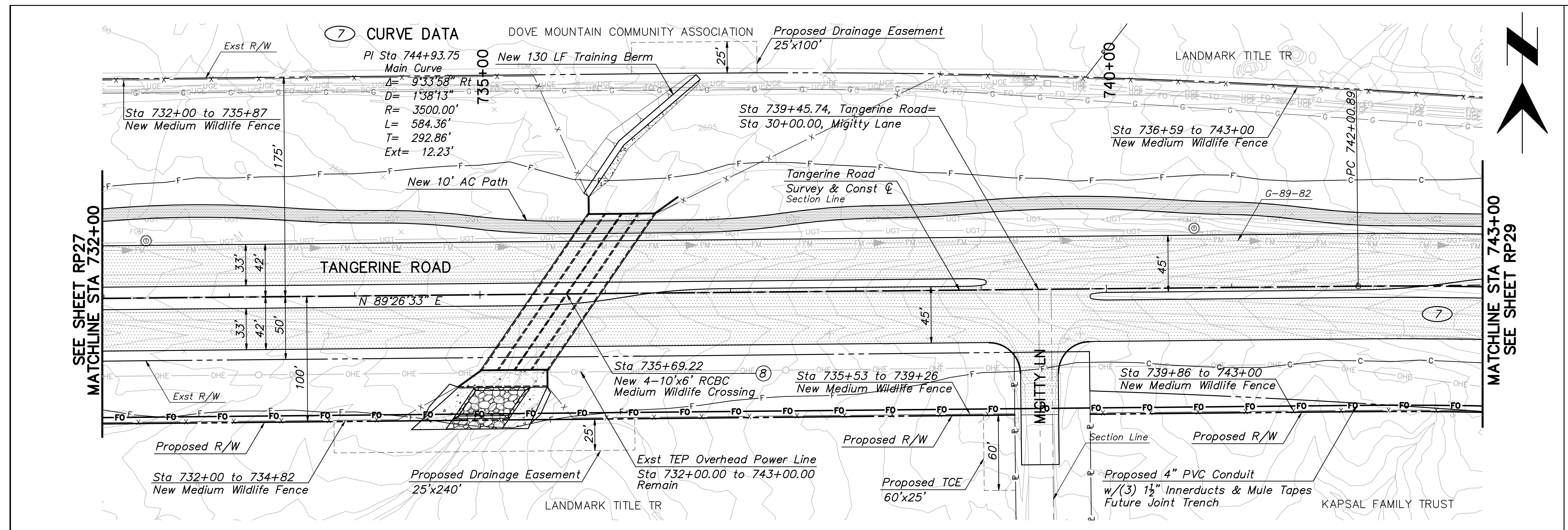
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 ROADWAY PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 710+00.00 TO STA 721+00.00
 TANGERINE ROAD



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 ROADWAY PLAN AND PROFILE FOR TANGERINE ROAD STA 732+00.00 TO STA 743+00.00 TANGERINE ROAD

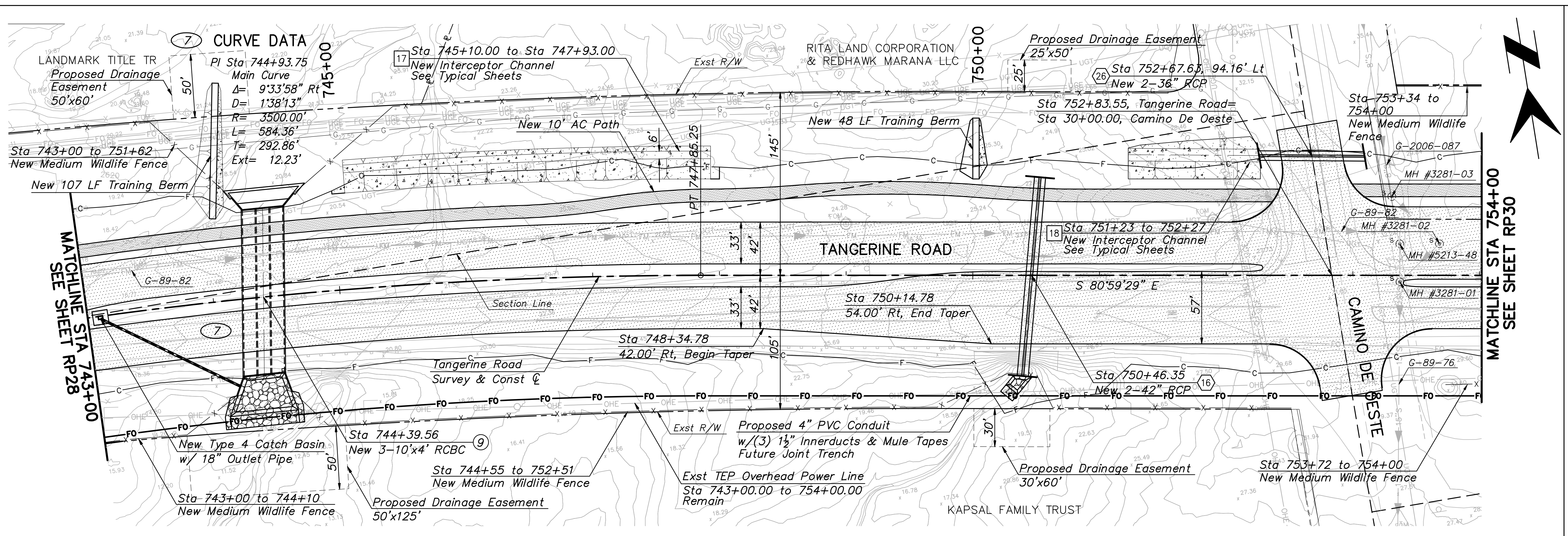
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PROJ. ENG.:	AA

DATE	12/12

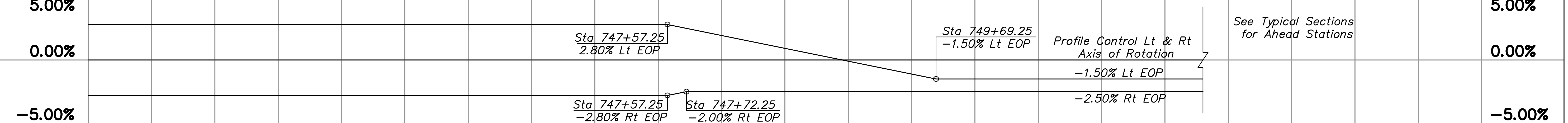
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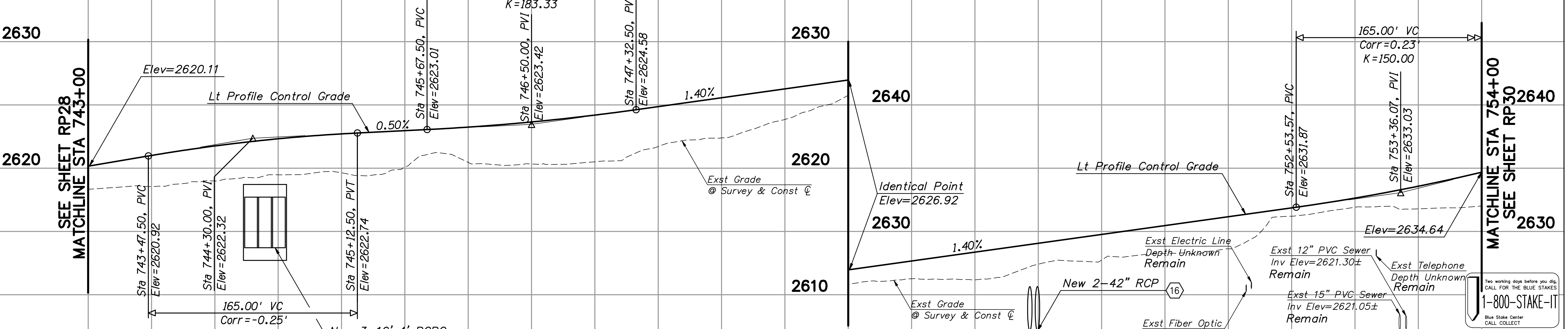


CURVE DATA
 PI Sta 744+93.75
 Main Curve
 $\Delta = 93^{\circ}3'58''$ Rt
 $D = 138^{\circ}13'$
 $R = 3500.00'$
 $L = 584.36'$
 $T = 292.86'$
 $Ext = 12.23'$

743+00 744+00 745+00 746+00 747+00 748+00 749+00 750+00 751+00 752+00 753+00 754+00



SUPERELEVATION DIAGRAM



SCALES: HORIZ. 1"=40'
 VERT. 1"=4'
 SHEET RP29 OF RP32

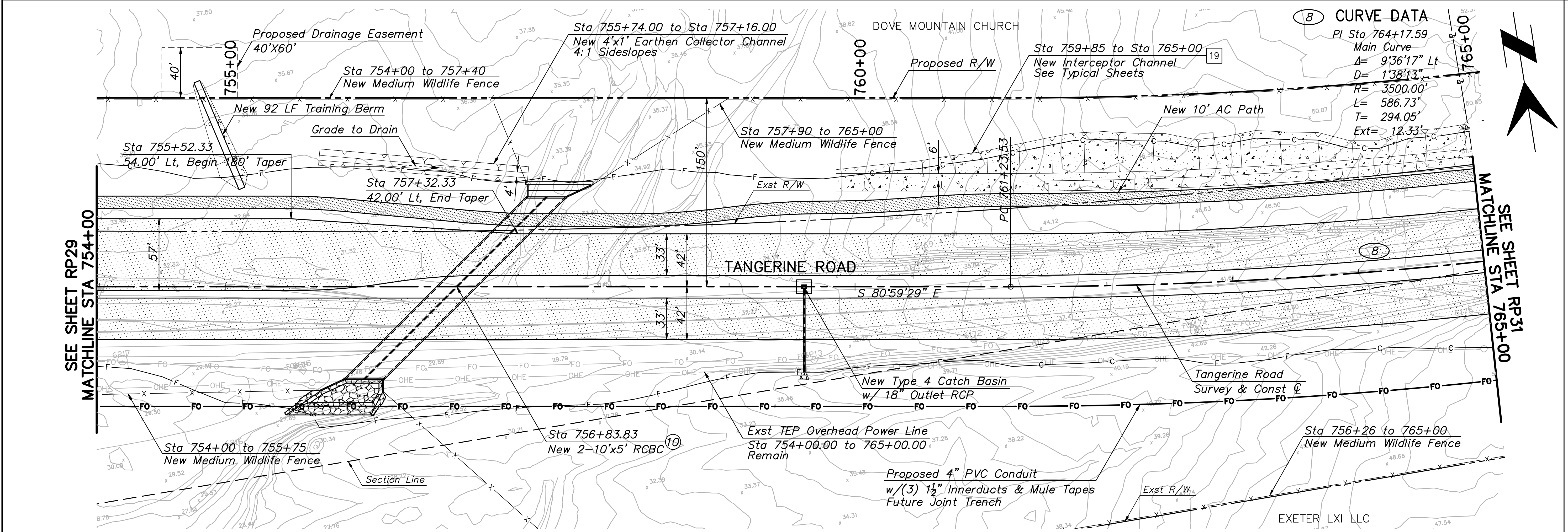
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 ROADWAY PLAN AND PROFILE FOR TANGERINE ROAD
 STA 743+00.00 TO STA 754+00.00
 TANGERINE ROAD



8 CURVE DATA

PI Sta 764+17.59

Main Curve

A= 9'36"17" Lt

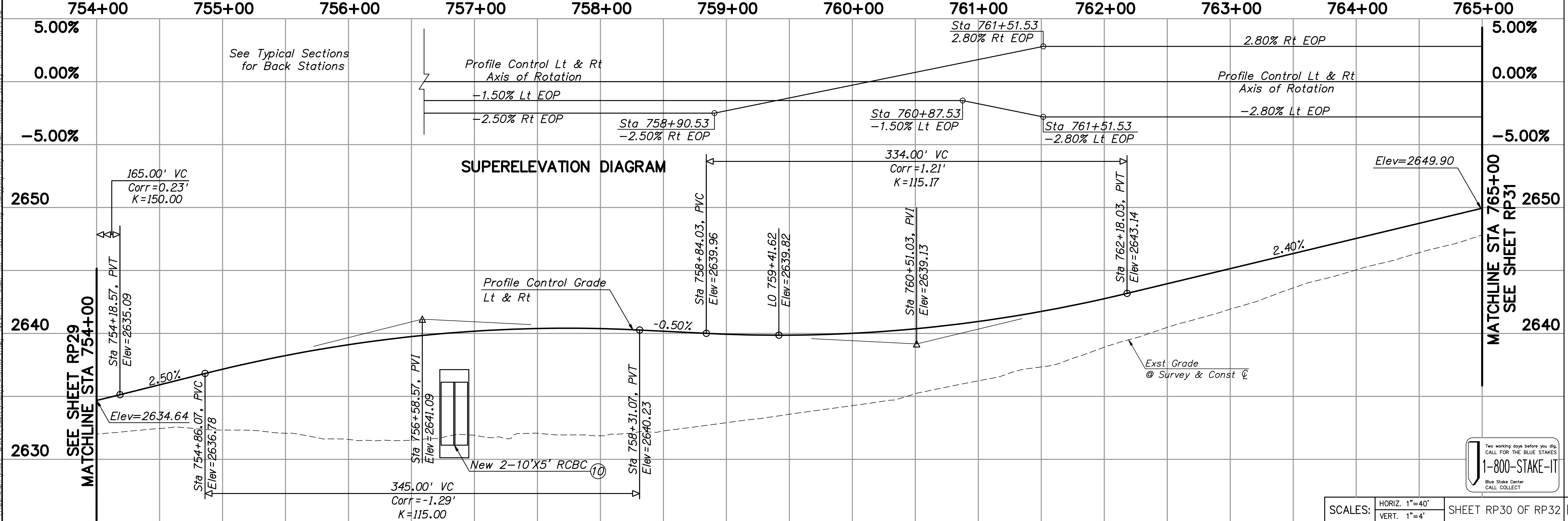
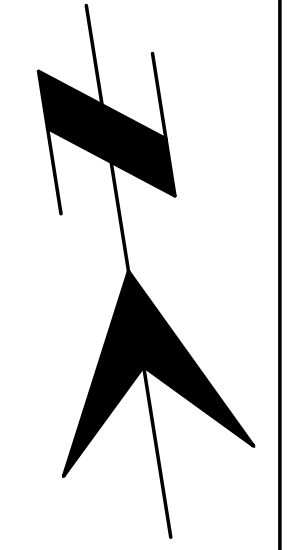
D= 1'38"13"

R= 3500.00'

L= 586.73'

T= 294.05'

Ext= 12.33'



SUPERELEVATION DIAGRAM

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SCALES: HORIZ. 1"=40'
VERT. 1"=4'

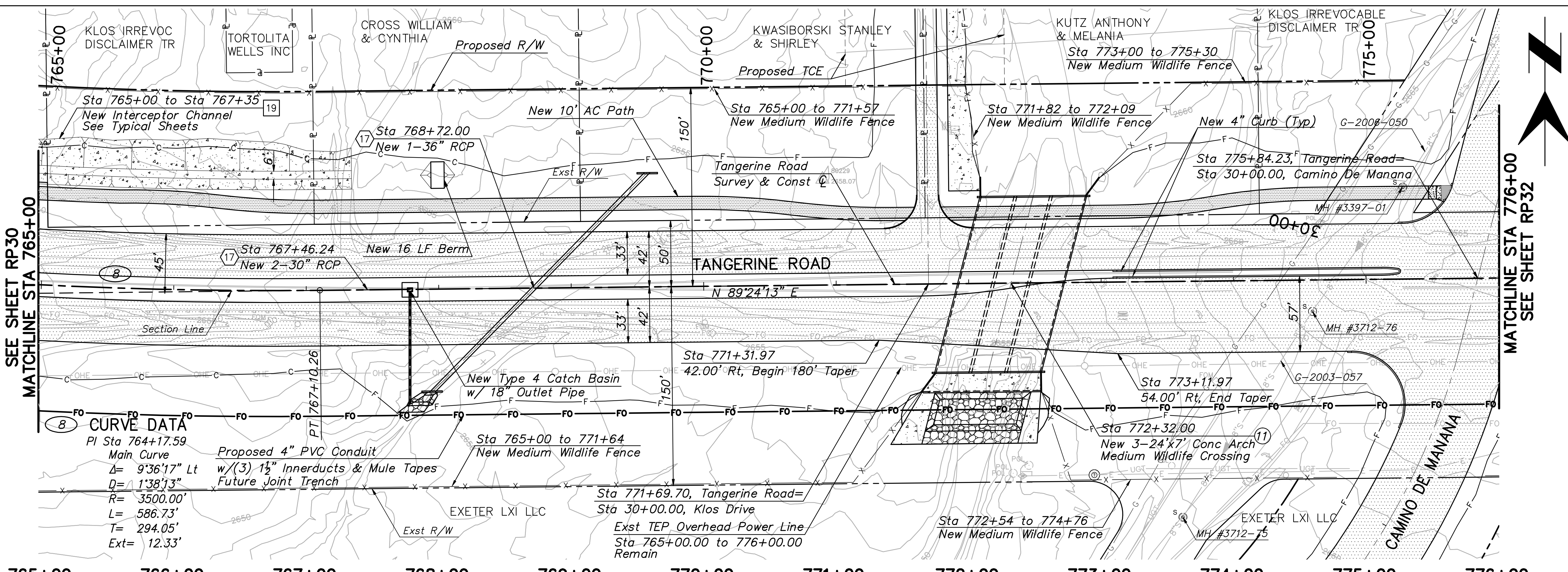
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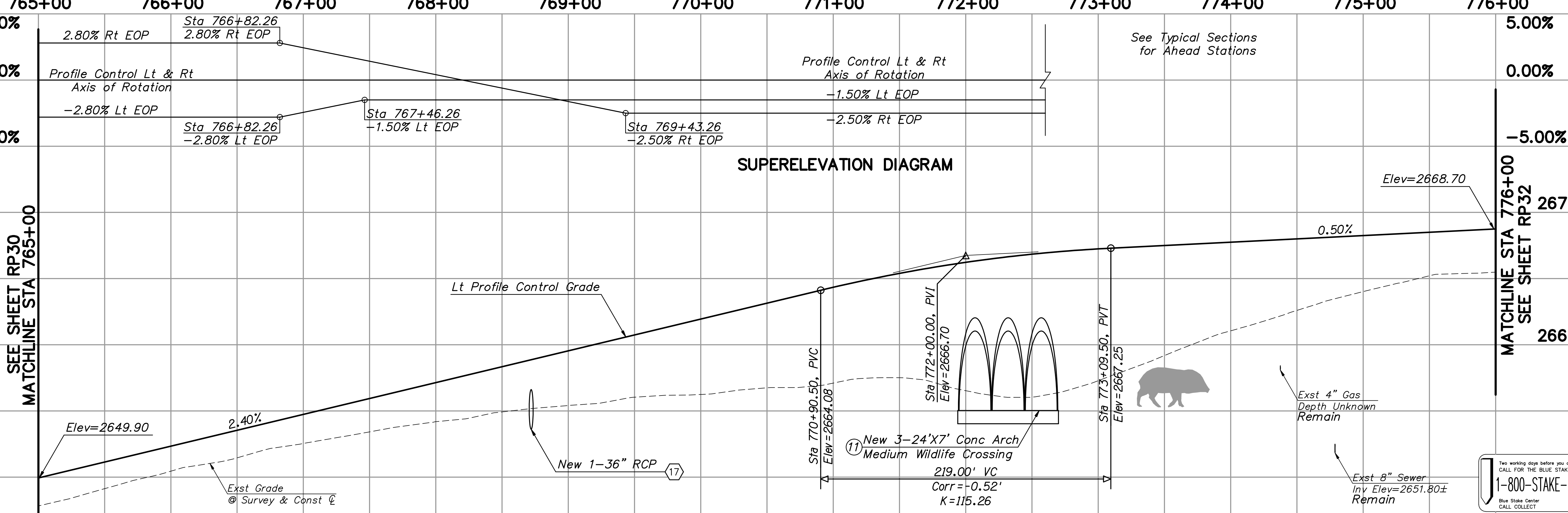
TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE FOR TANGERINE ROAD
STA 754+00.00 TO STA 765+00.00
TANGERINE ROAD



8 CURVE DATA

PI Sta 764+17.59
Main Curve
 $\Delta = 9^{\circ}36'17''$ Lt
 $D = 1^{\circ}38'13''$
 $R = 3500.00'$
 $L = 586.73'$
 $T = 294.05'$
 $Ext = 12.33'$

Proposed 4" PVC Conduit
 w/(3) 1 1/2" Innerducts & Mule Tapes
 Future Joint Trench



SUPERELEVATION DIAGRAM

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SCALES: HORIZ. 1"=40'
VERT. 1"=4'
SHEET RP31 OF RP32

DATE	12/12
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

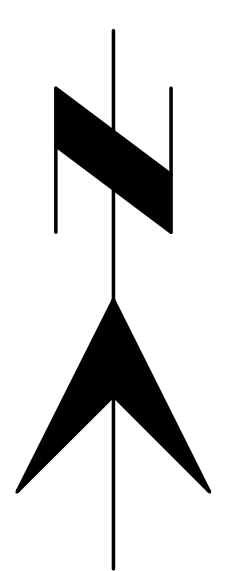
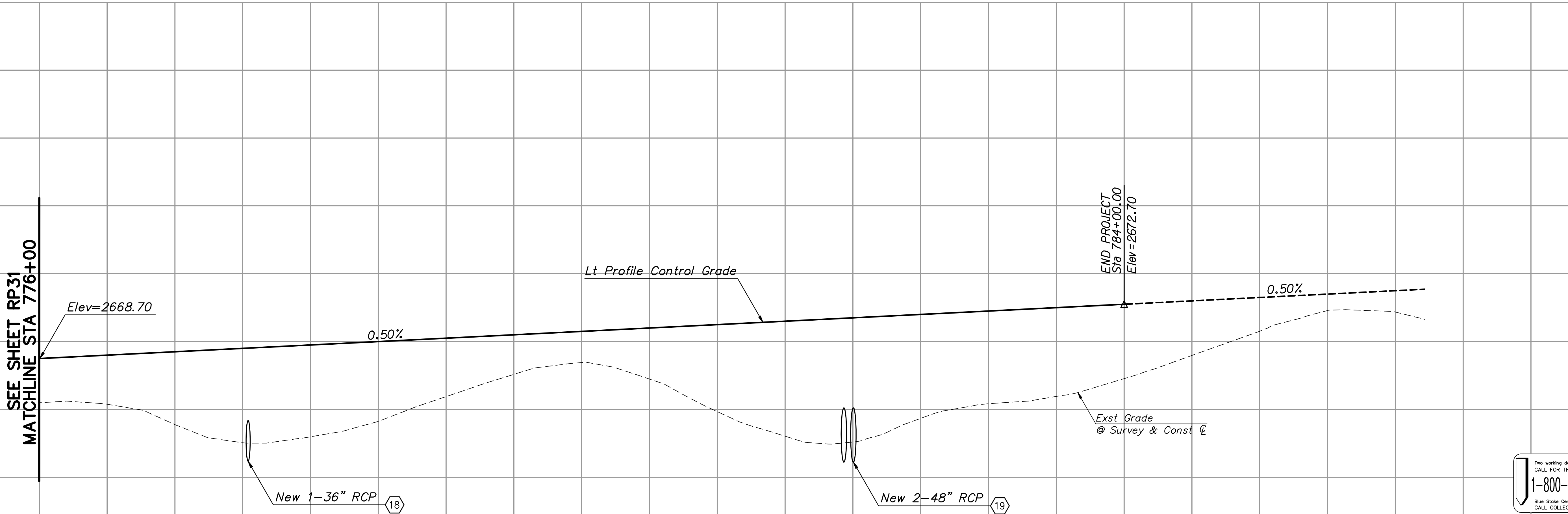
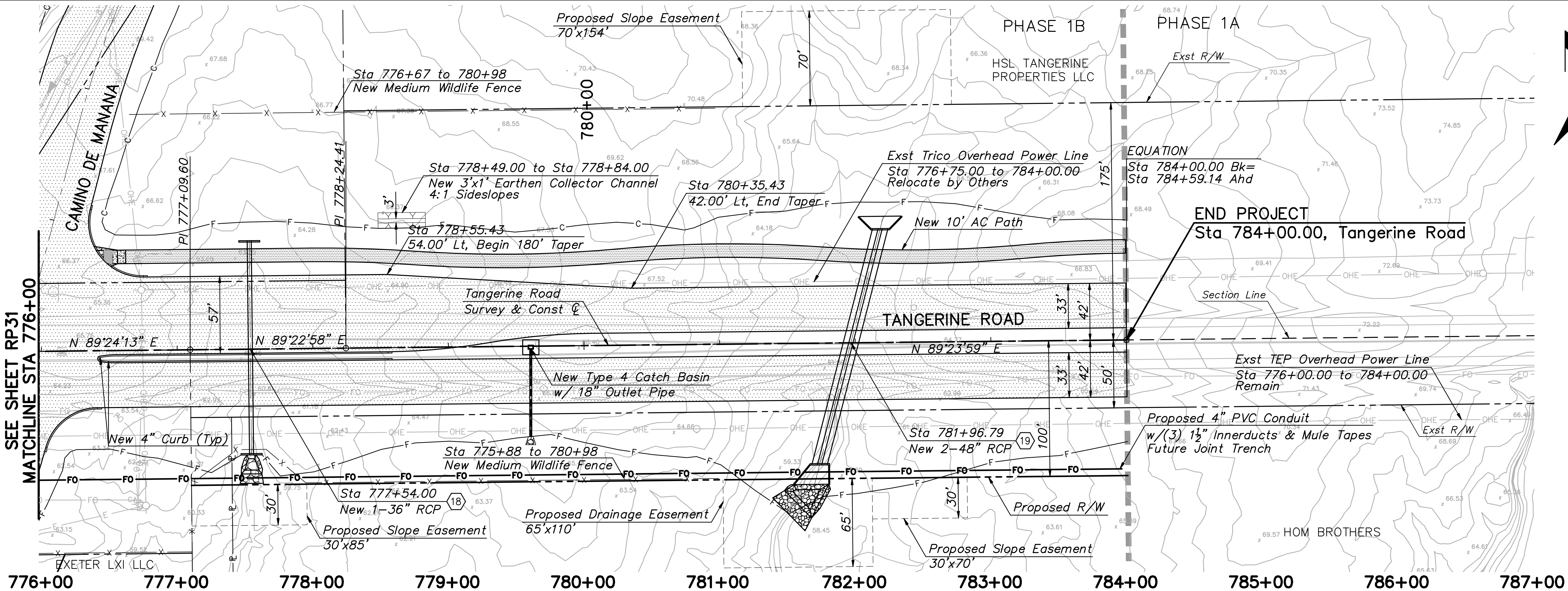
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TOWN OF MARANA - PROJECT NO. 2005-061
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 FOR
TANGERINE ROAD
 STA 765+00.00 TO STA 776+00.00
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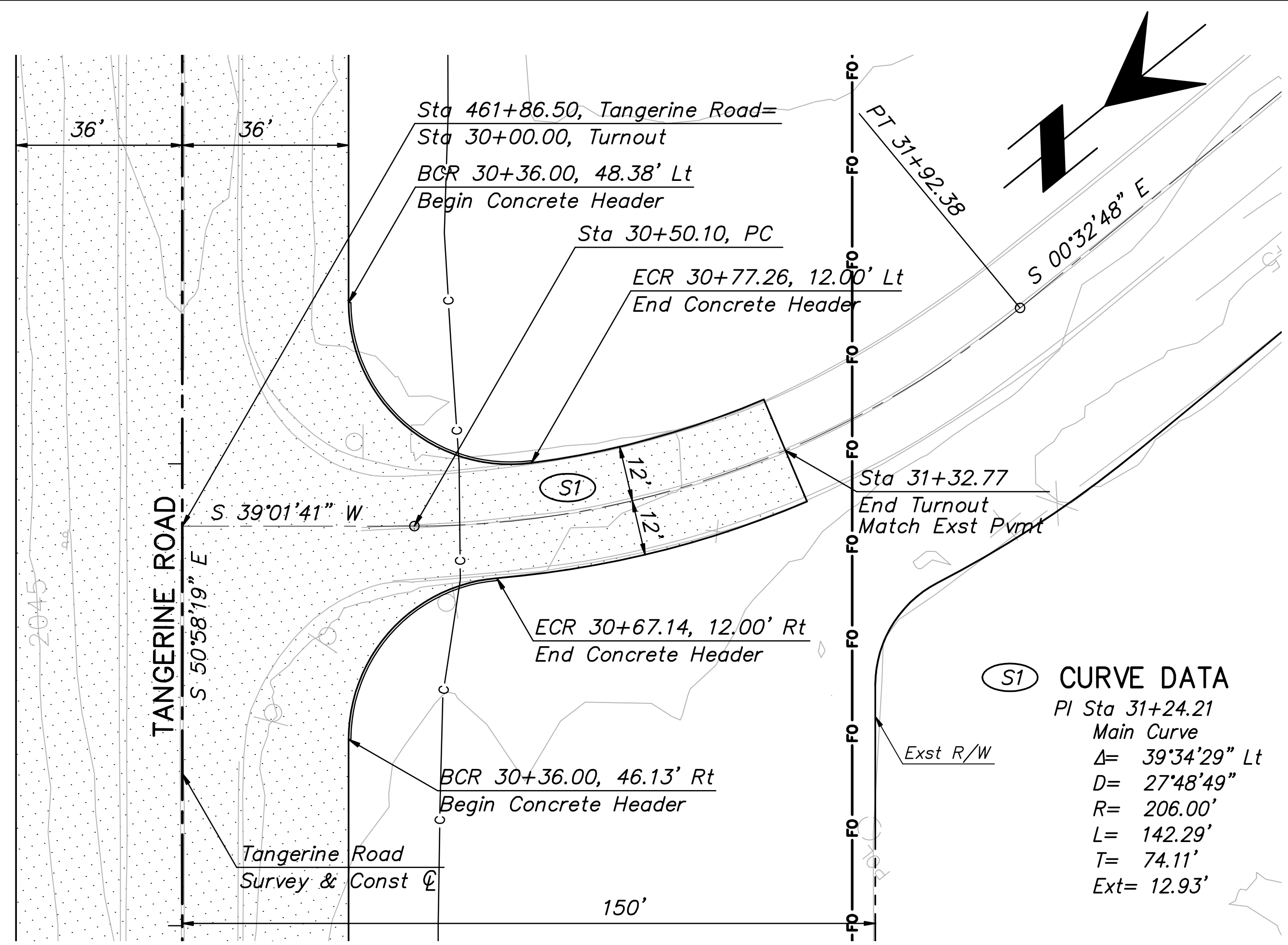
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333 E. Weimers Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 fax
www.psomars.com

TOWN OF MARANA - PROJECT NO. 2005-061
ROADWAY PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 776+00.00 TO STA 787+00.00
TANGERINE ROAD

Two working days before you dig,
CALL FOR THE BLUE STAKES!
1-800-STAKE-IT
Blue Stake Center
CALL COLLECT

T:\21MAG0401\BIBLIC\WORKS\Sheets\Plan\2005-061\RP32.dwg, 2/6/06, Last Saved: Mon, 04 Feb 2013 8:48:04 AM, Plot Date: Monday, February 04, 2013 10:48:04 AM



(S1) CURVE DATA

PI Sta 31+24.21

Main Curve

$\Delta = 39^{\circ}34'29''$ Lt

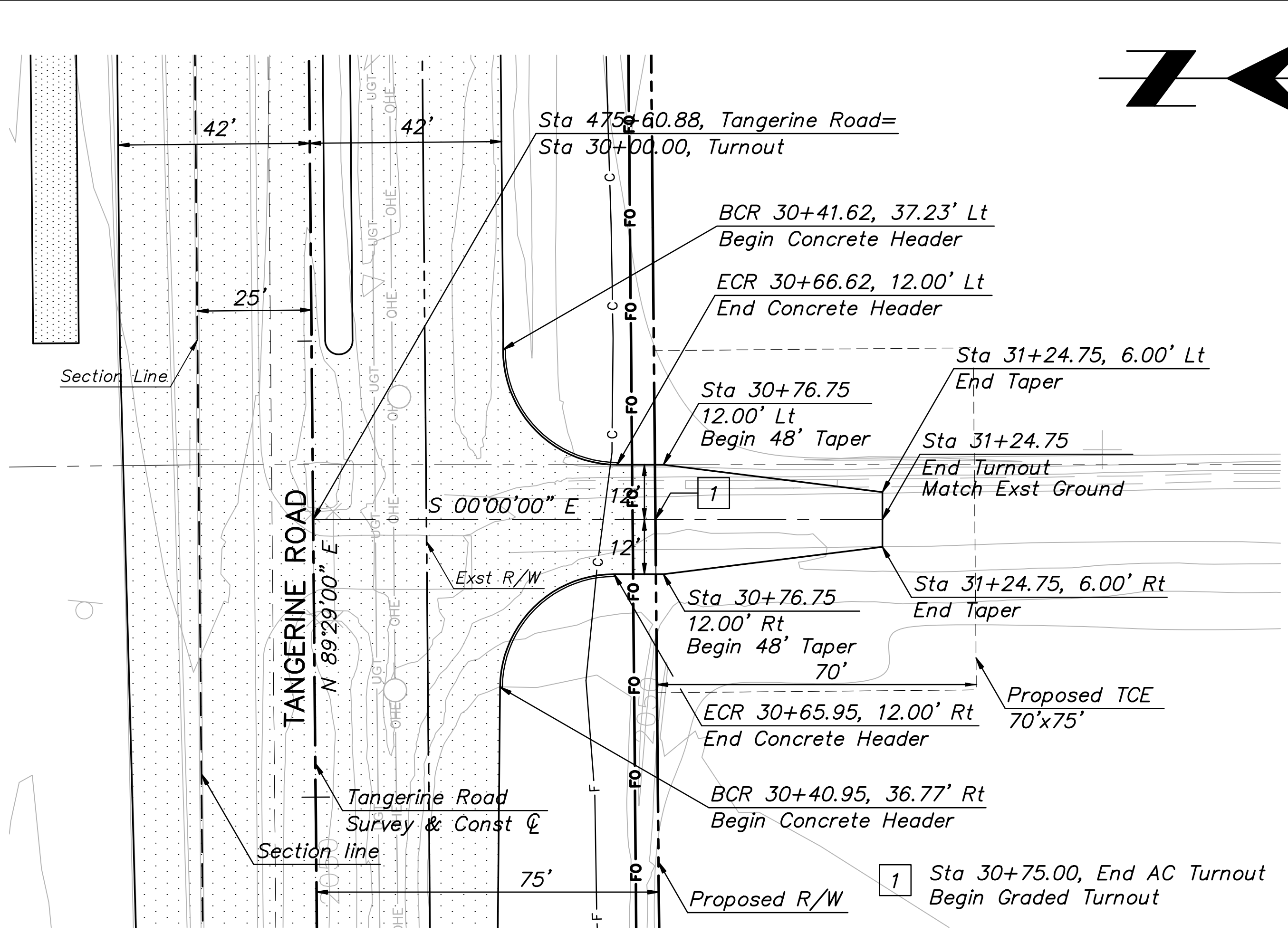
$D = 27^{\circ}48'49''$

$R = 206.00'$

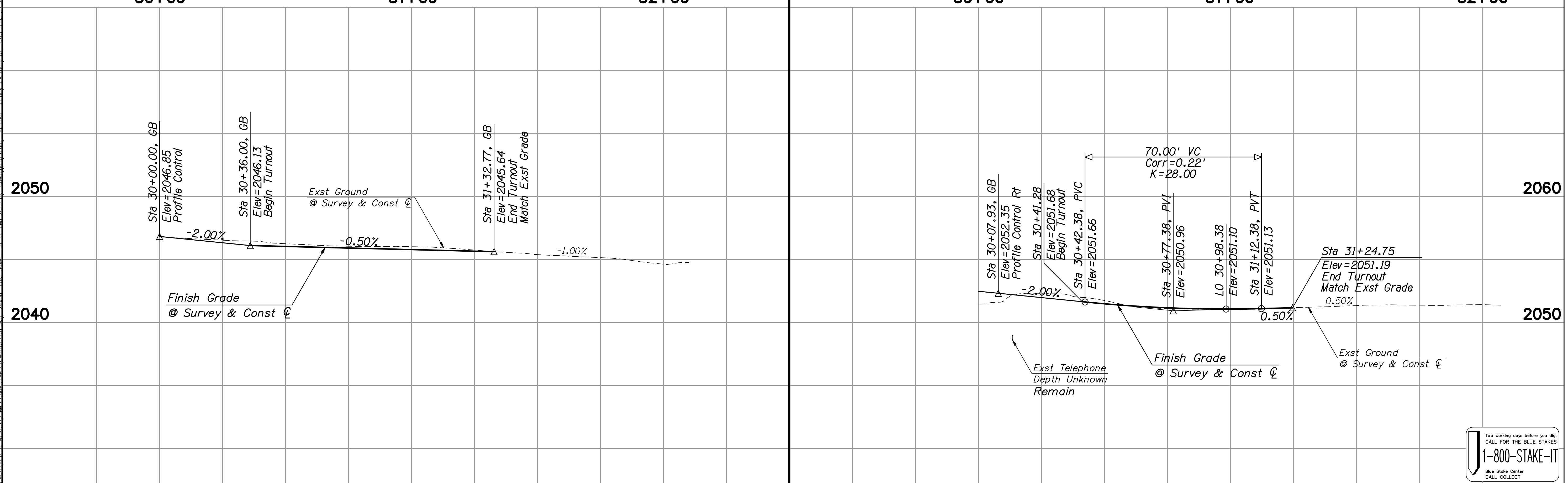
$L = 142.29'$

$T = 74.11'$

$Ext = 12.93'$



30+00 31+00 32+00 30+00 31+00 32+00



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SCALES: HORIZ. 1"=20'
VERT. 1"=4'

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

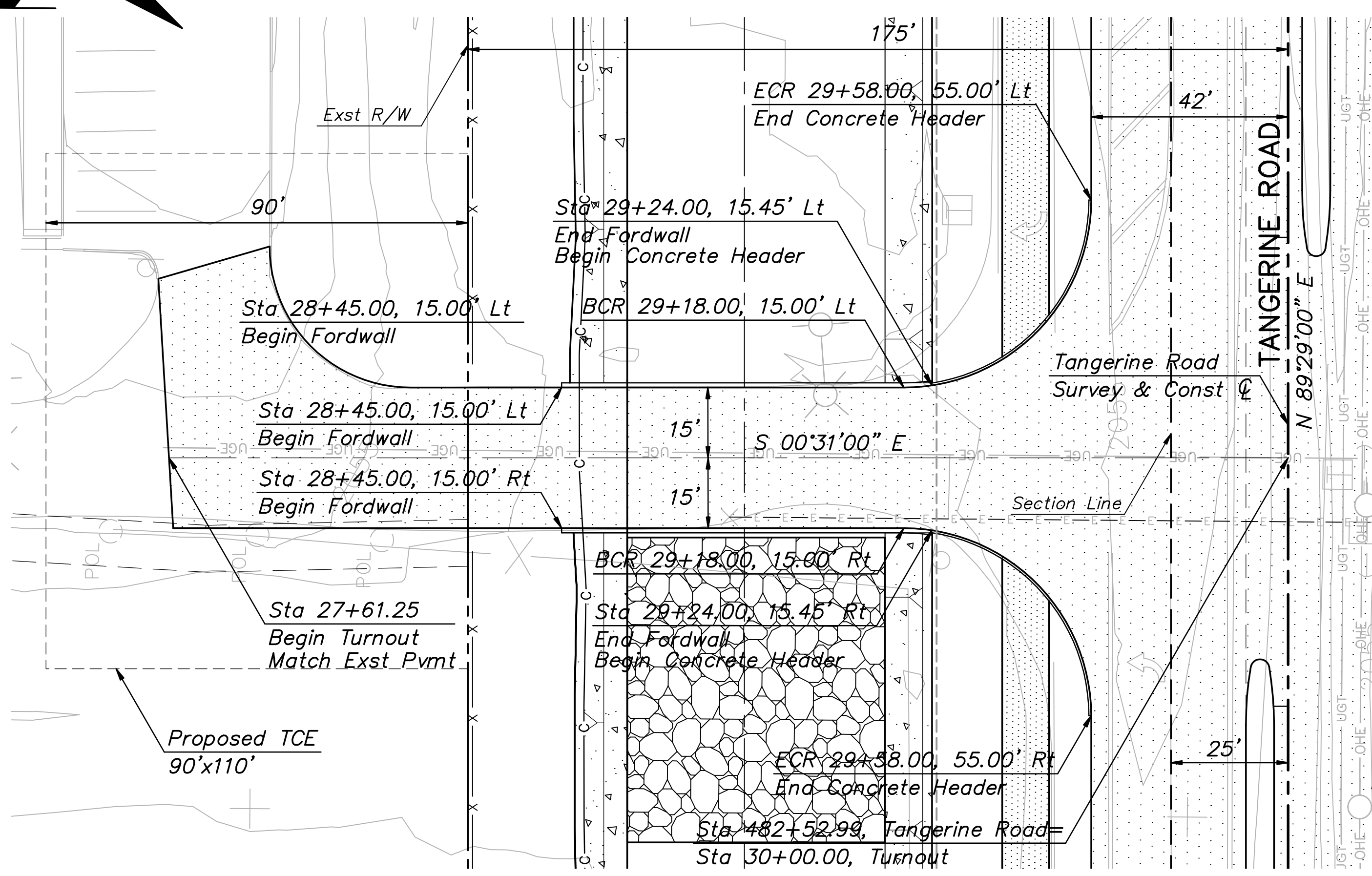
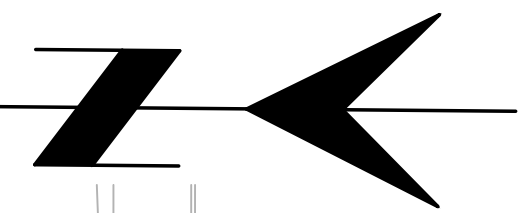
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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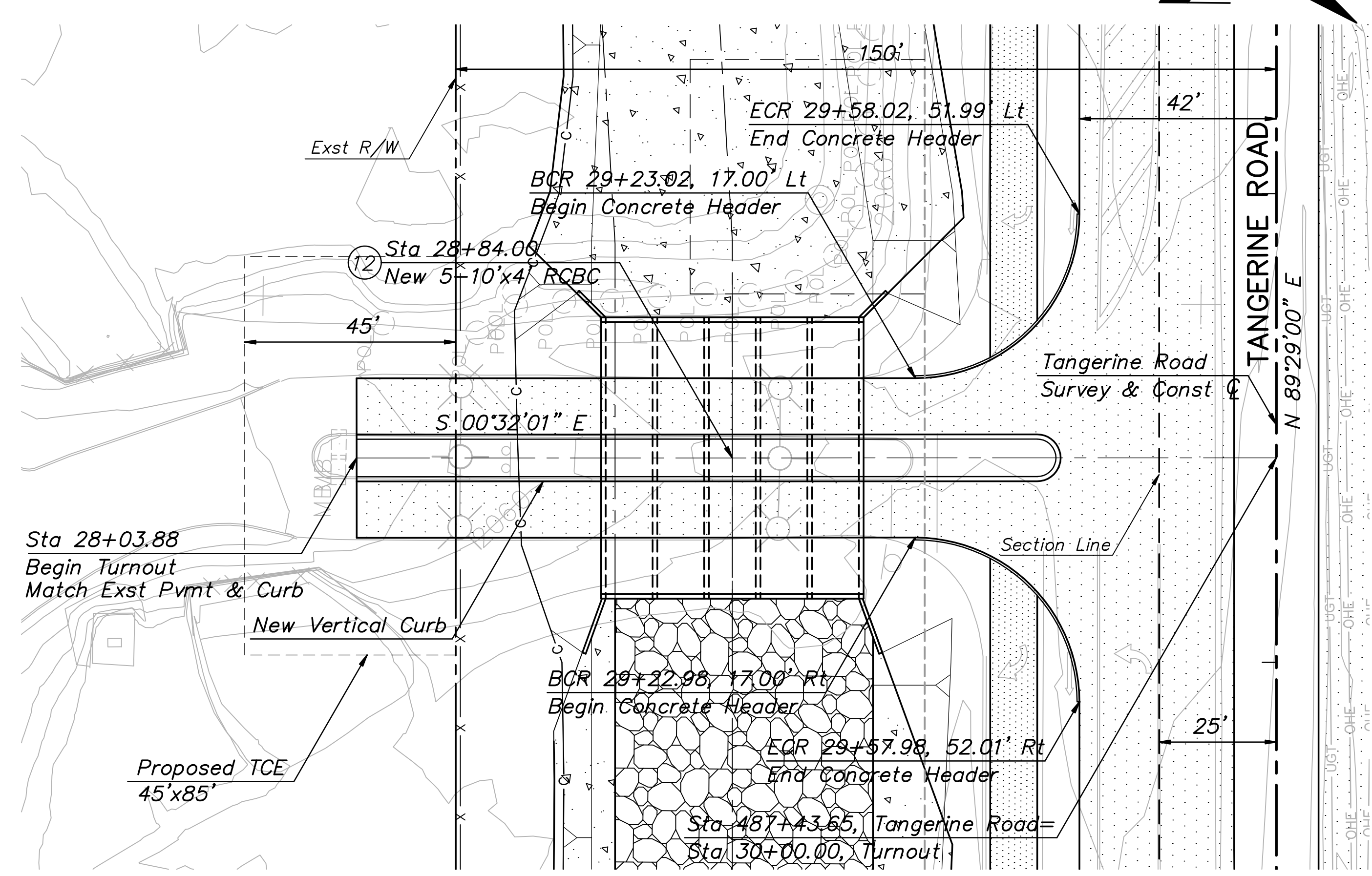
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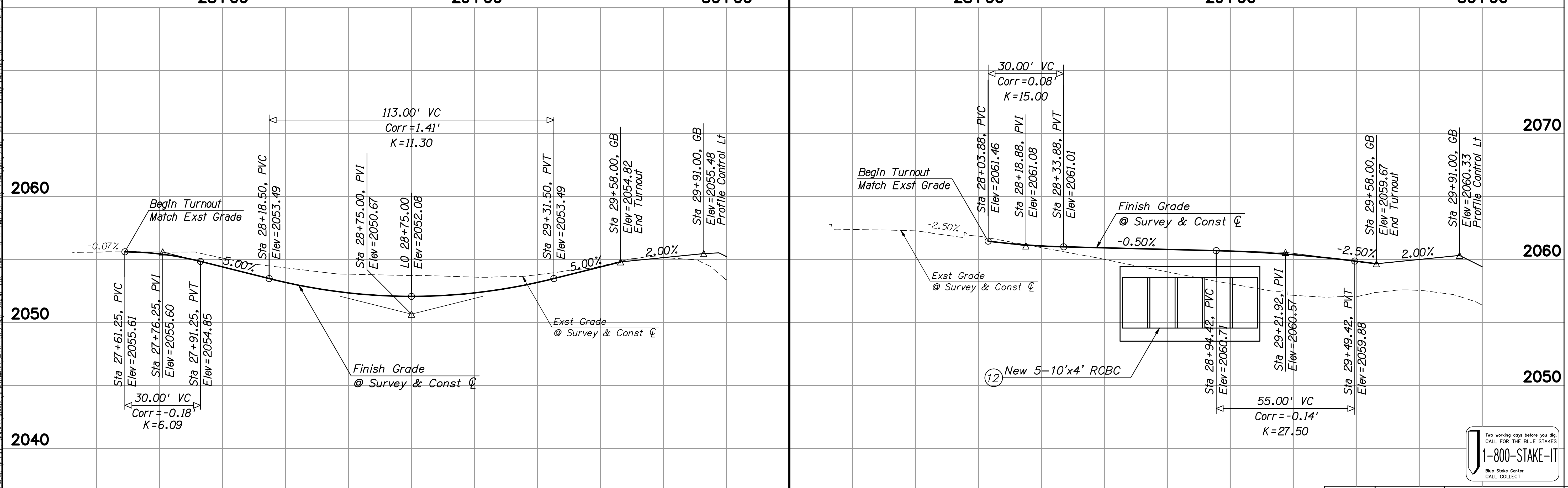
SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 461+00.00 TO STA 476+00.00
TANGERINE ROAD



28+00 29+00 30+00



28+00 29+00 30+00



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

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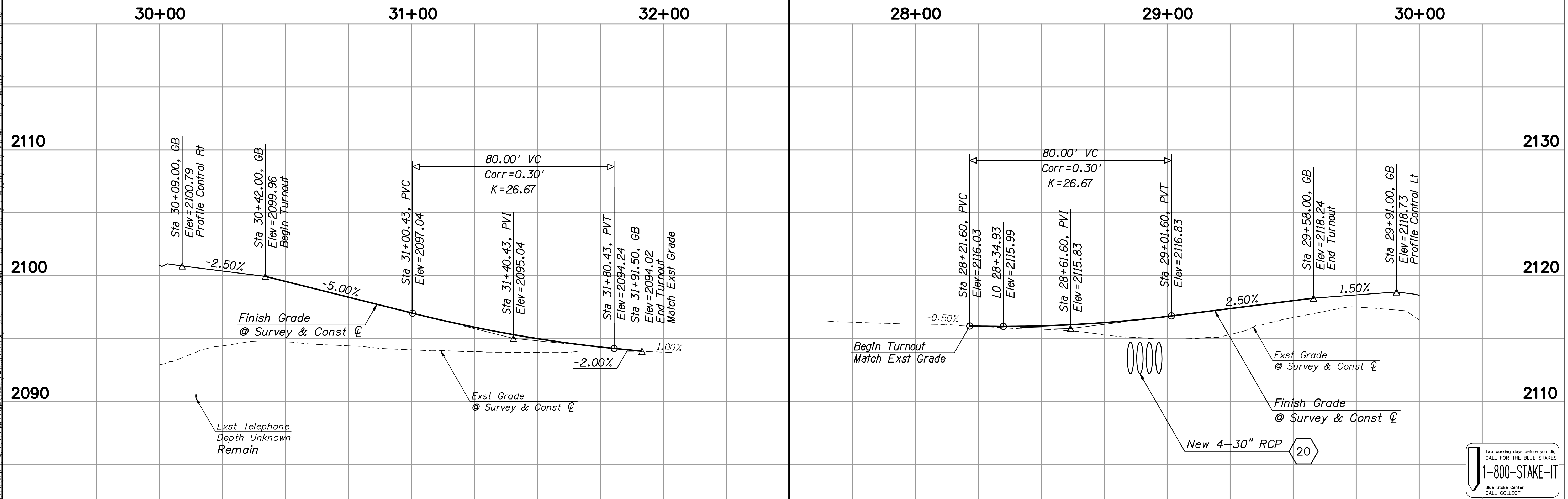
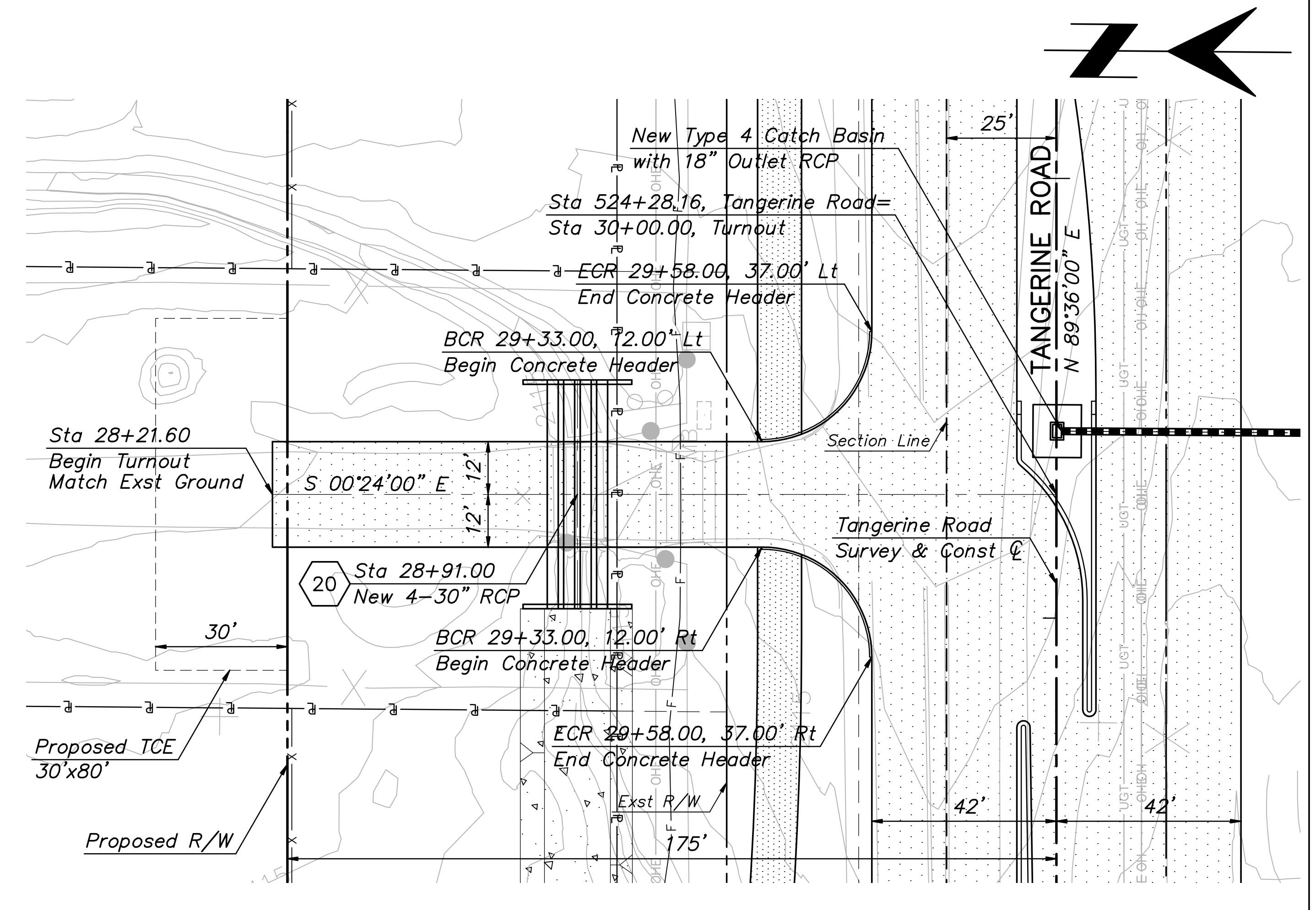
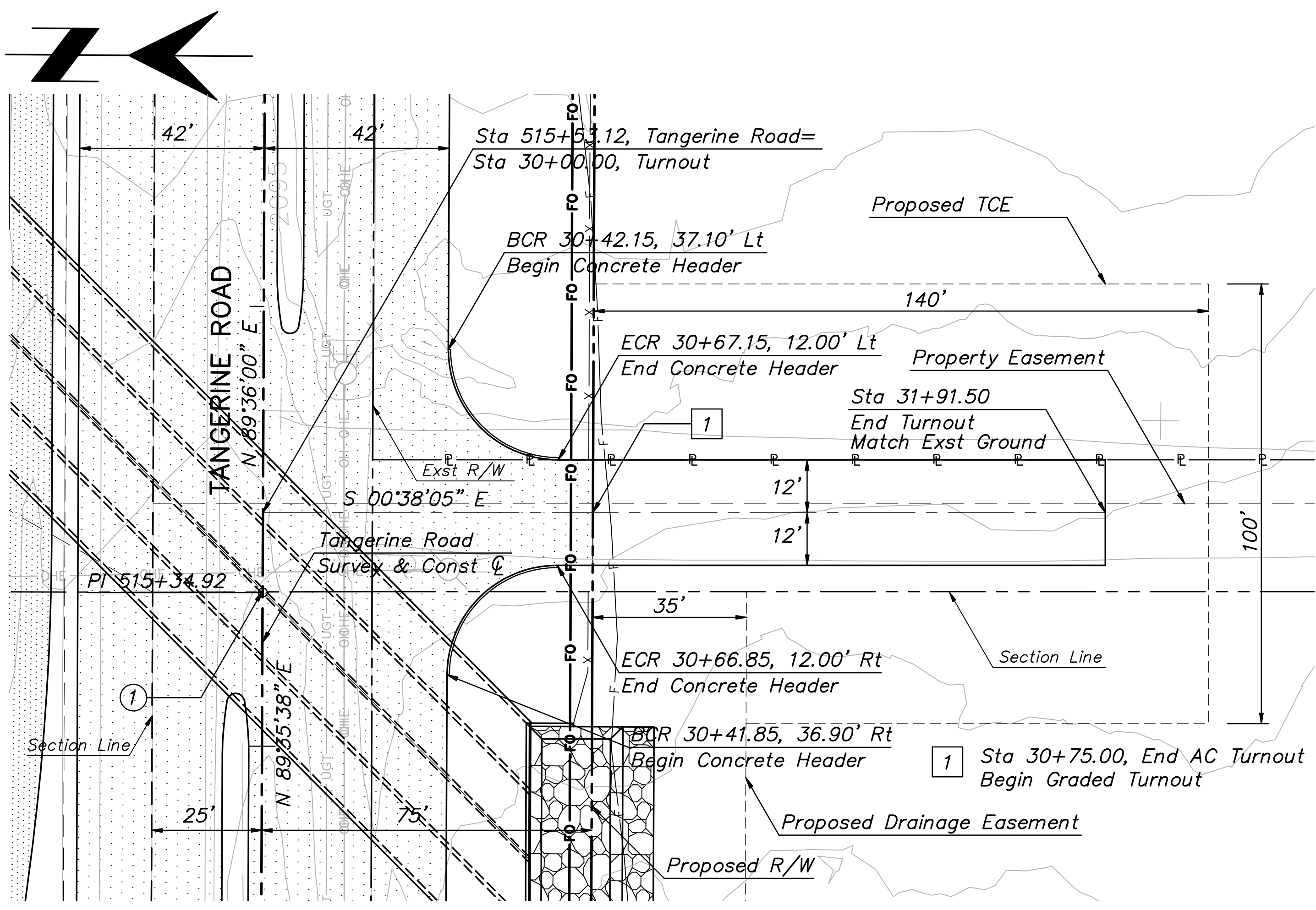
DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 481+00.00 TO STA 489+00.00
TANGERINE ROAD



DESIGNED:	CZ	DATE	12/12
DRAWN:	CZ	DATE	12/12
CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

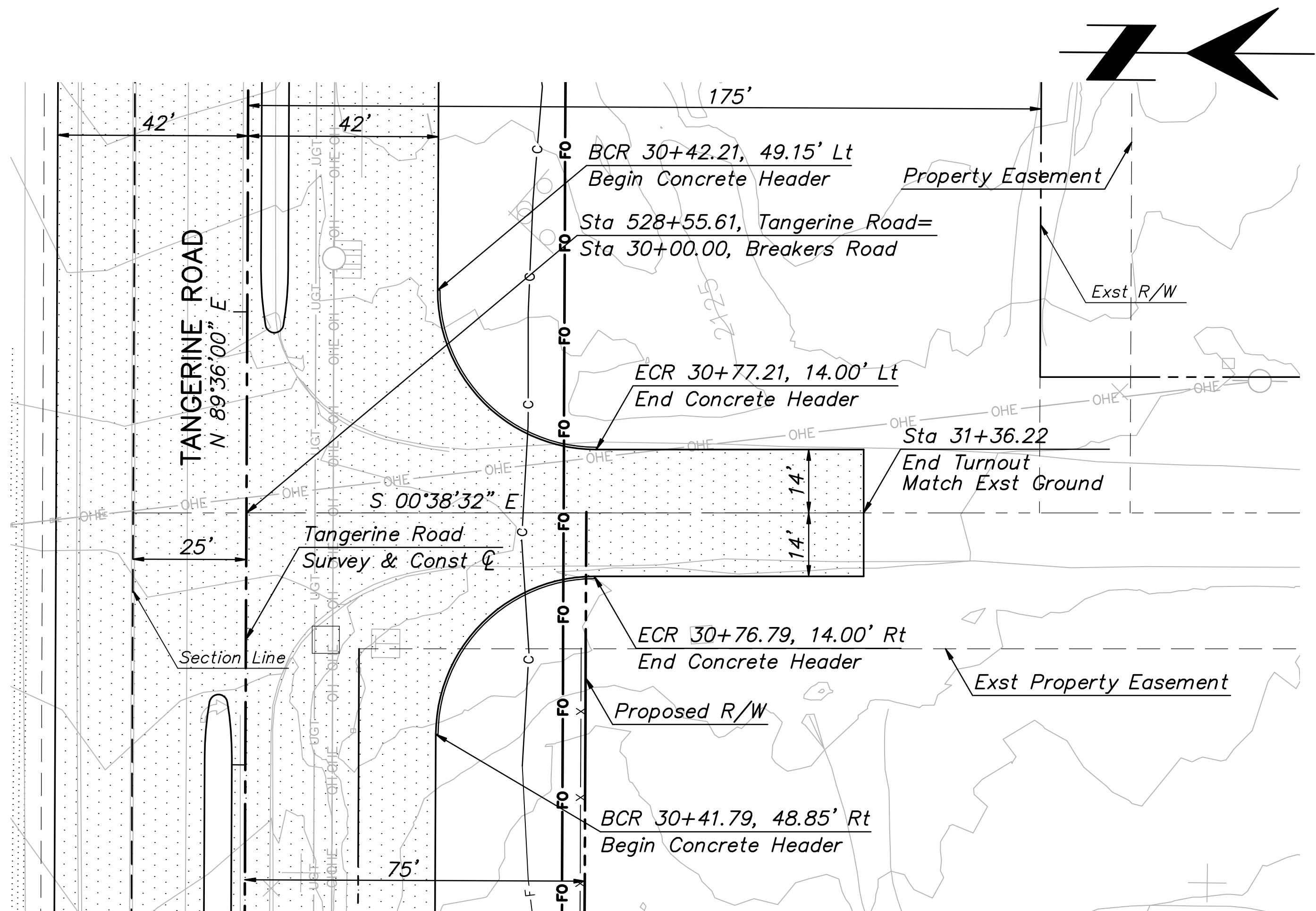
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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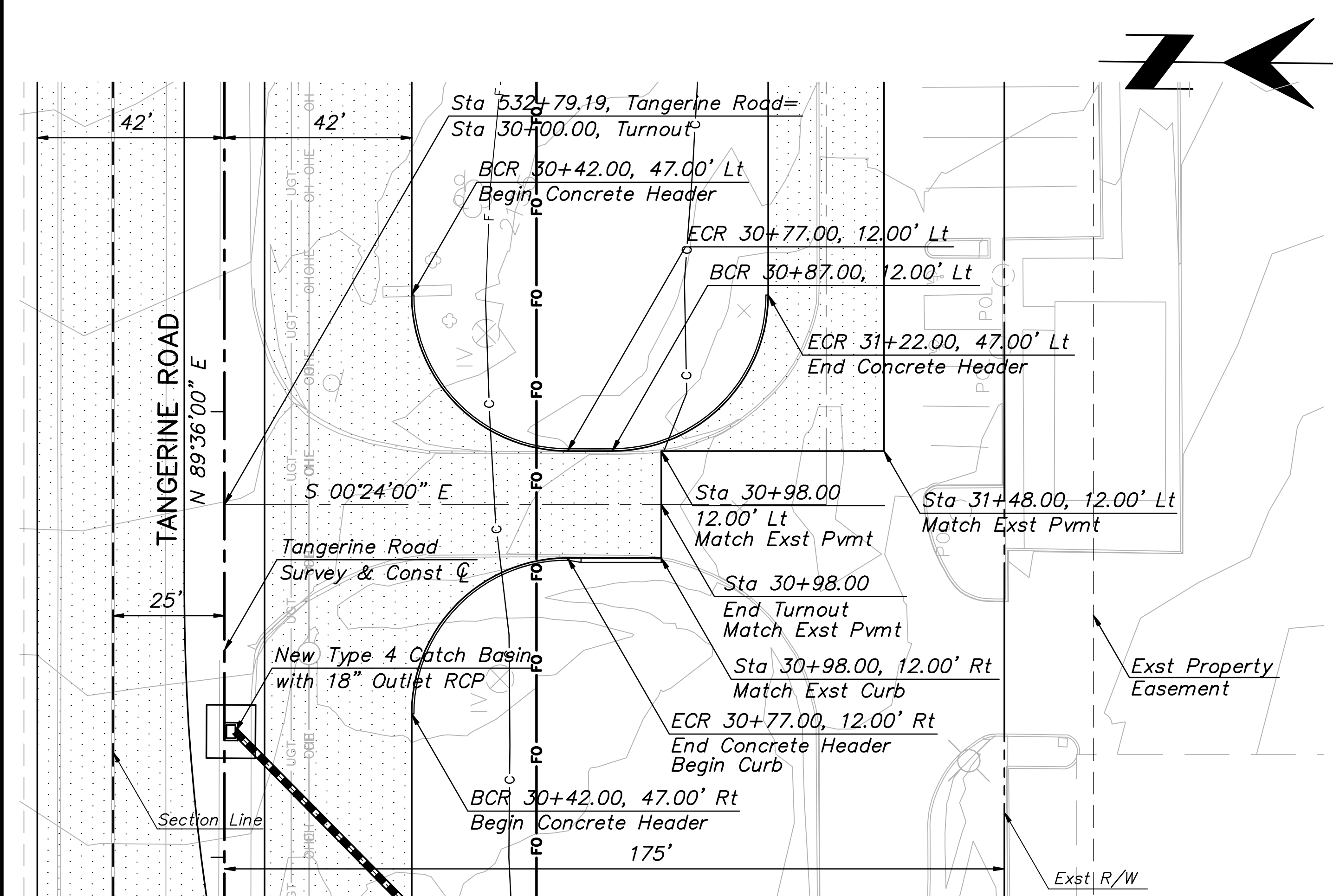
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(520) 292-2300 (520) 292-1290 fax
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TOWN OF MARANA - PROJECT NO. 2005-061
SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 514+00.00 TO STA 525+00.00
TANGERINE ROAD

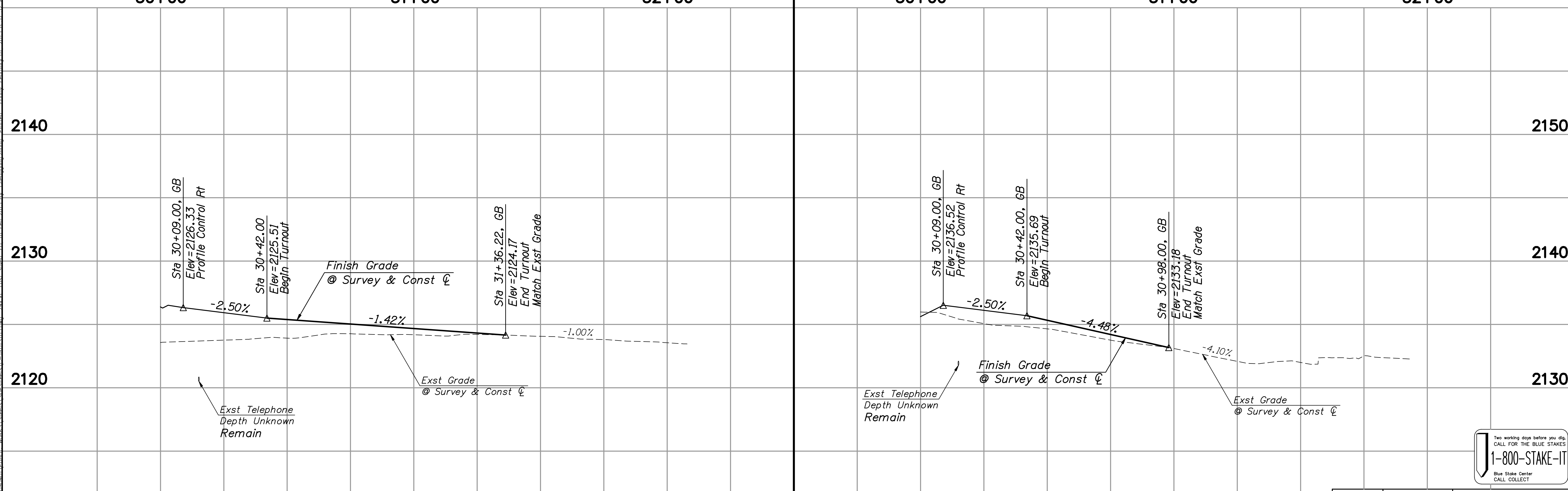




30+00 31+00 32+00



30+00 31+00 32+00



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

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Blue Stake Center
CALL COLLECT

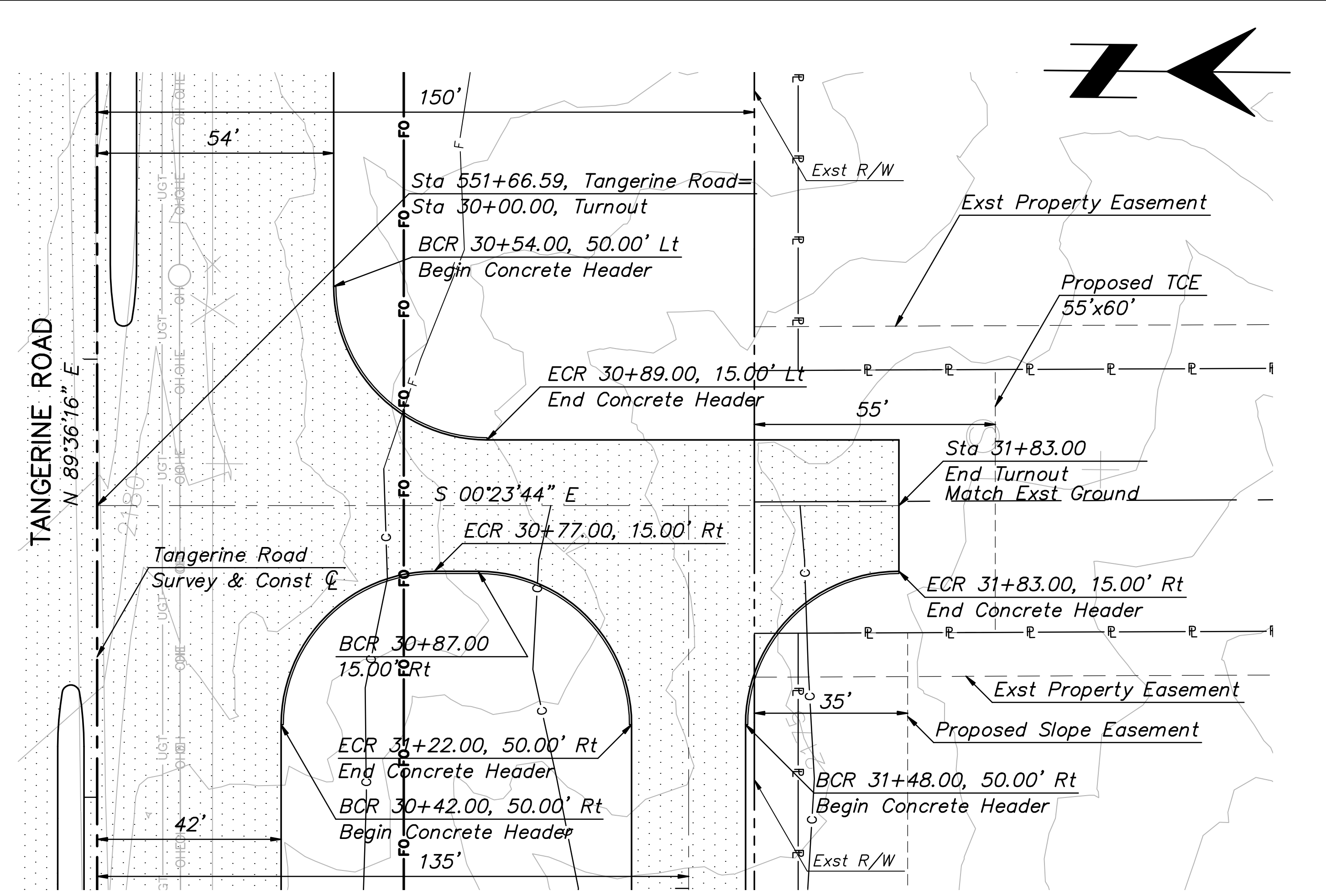
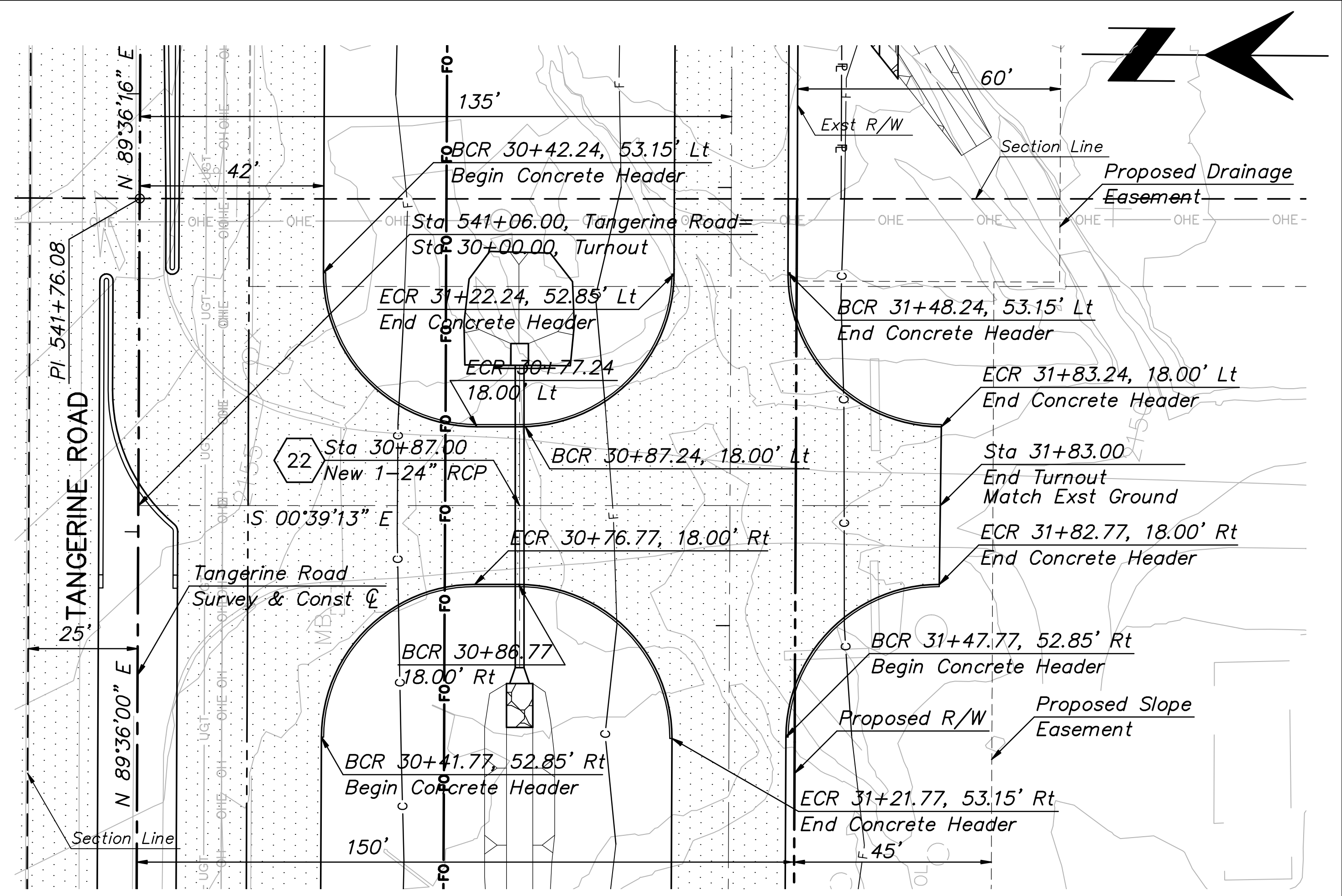
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DRAWN:	CZ	DATE	12/12
CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

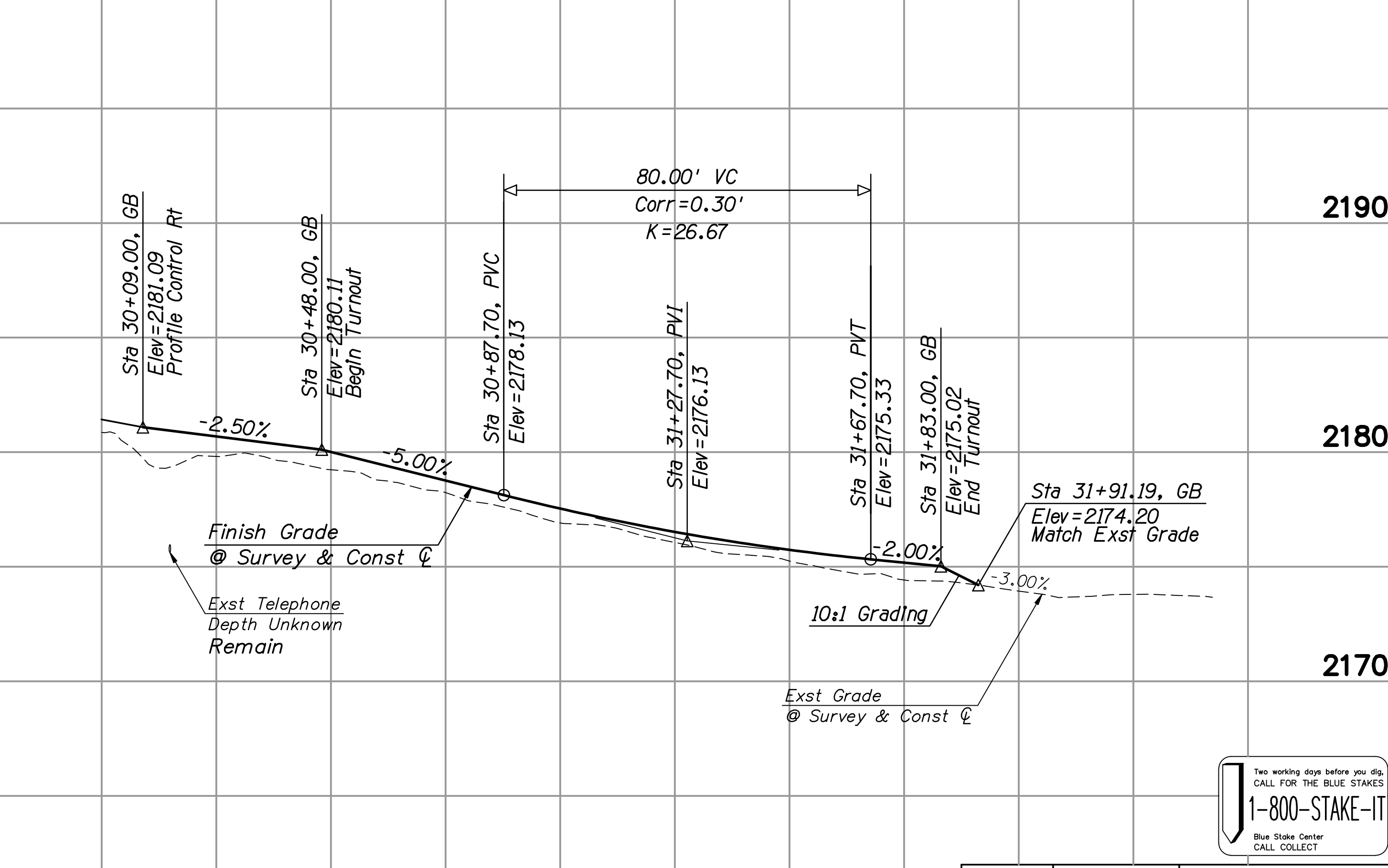
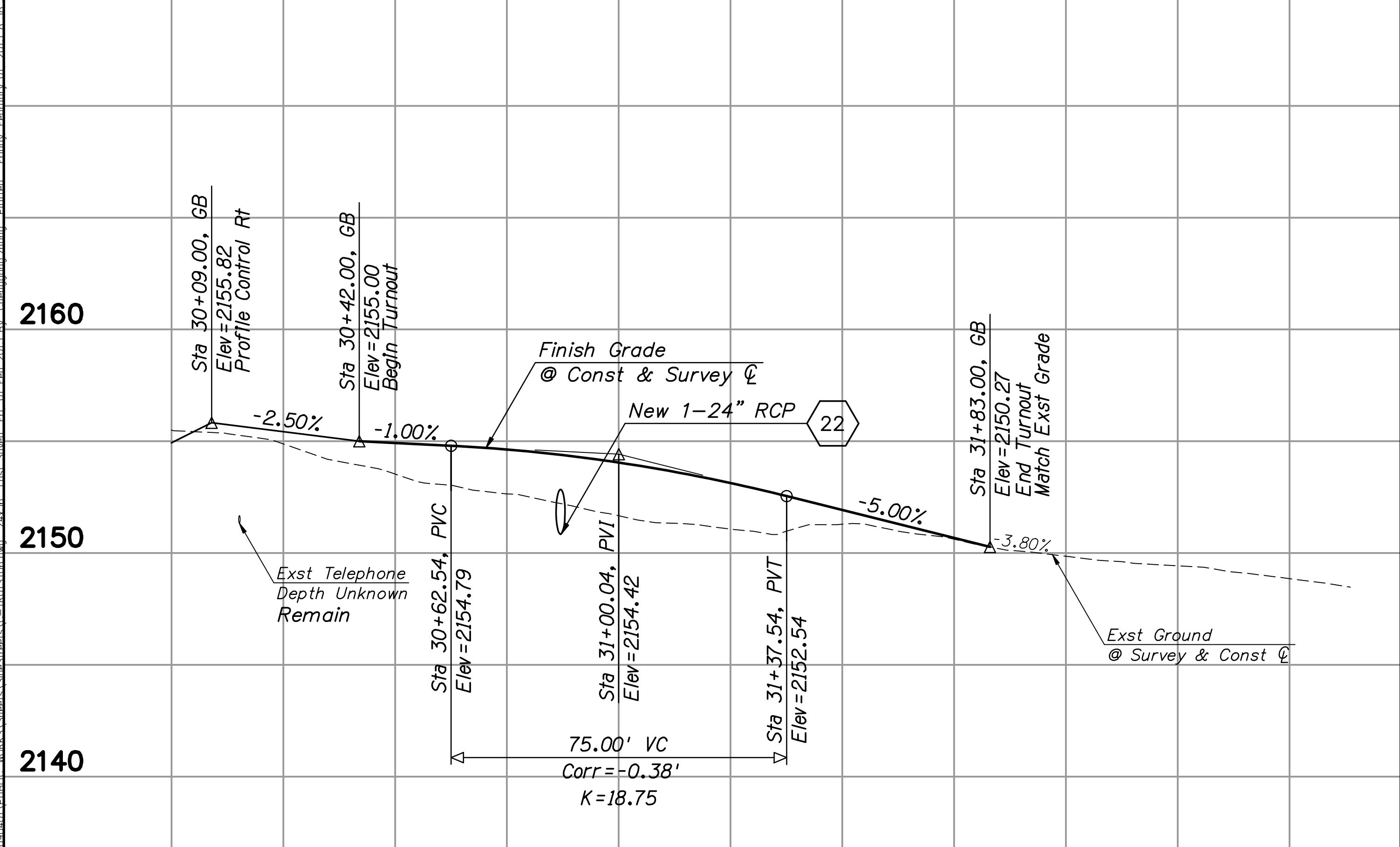
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TOWN OF MARANA - PROJECT NO. 2005-061
SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 528+00.00 TO STA 534+00.00
TANGERINE ROAD



30+00 31+00 32+00 30+00 31+00 32+00



2140 2150 2160 2170 2180 2190

SCALES: HORIZ. 1"=20' VERT. 1"=4' SHEET ST06 OF ST21

1-800-STAKE-IT

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE
DESIGNED:	CZ		12/12
DRAWN:	CZ		12/12
CHECKED:	AA		12/12
PROJ. ENG.:	AA		12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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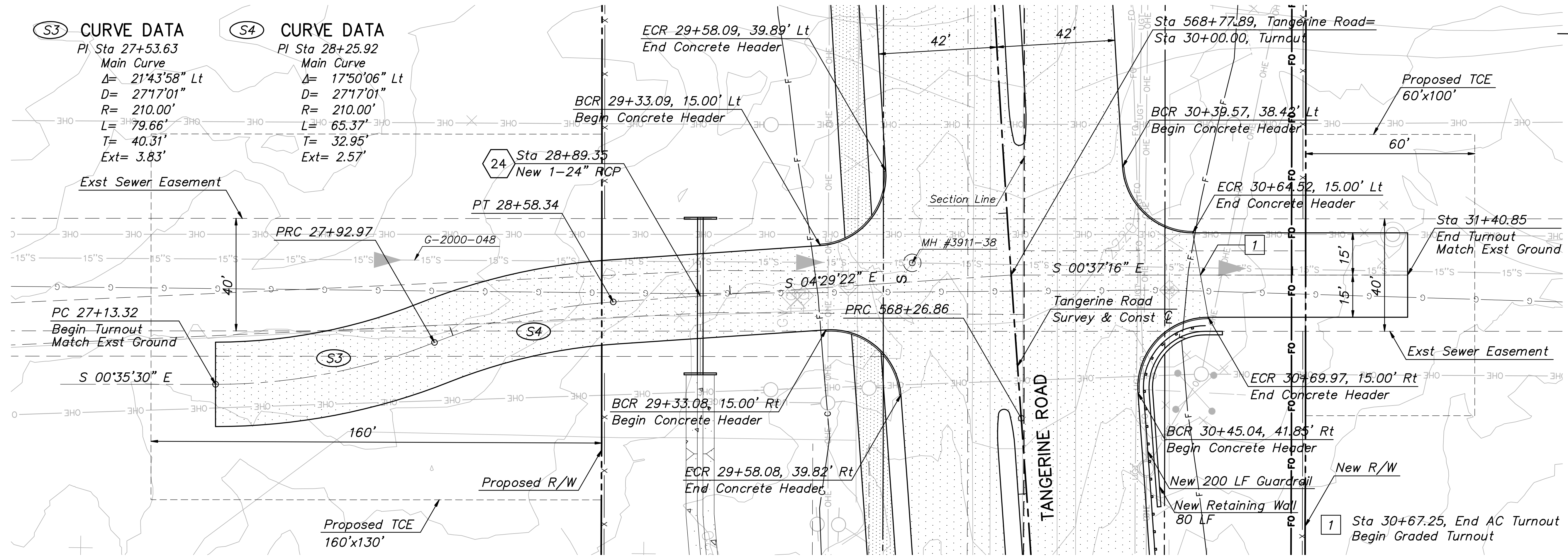
TOWN OF MARANA - PROJECT NO. 2005-061
 SIDESTREET PLAN AND PROFILE FOR TANGERINE ROAD
 STA 540+00.00 TO STA 553+00.00 TANGERINE ROAD

(S3) CURVE DATA

PI Sta 27+53.63
 Main Curve
 $\Delta = 21^{\circ}43'58''$ Lt
 $D = 27^{\circ}17'01''$
 $R = 210.00'$
 $L = 79.66'$
 $T = 40.31'$
 $Ext = 3.83'$

(S4) CURVE DATA

PI Sta 28+25.92
 Main Curve
 $\Delta = 17^{\circ}50'06''$ Lt
 $D = 27^{\circ}17'01''$
 $R = 210.00'$
 $L = 65.37'$
 $T = 32.95'$
 $Ext = 2.57'$



27+00

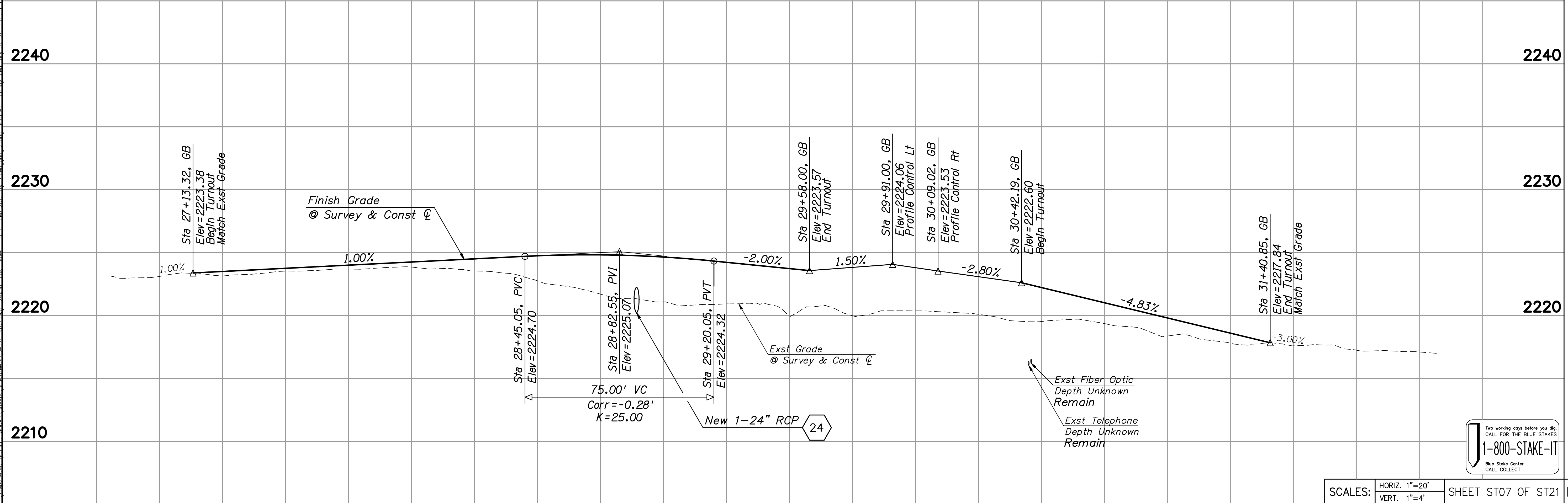
28+00

29+00

30+00

31+00

32+00



DATE	12/12
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

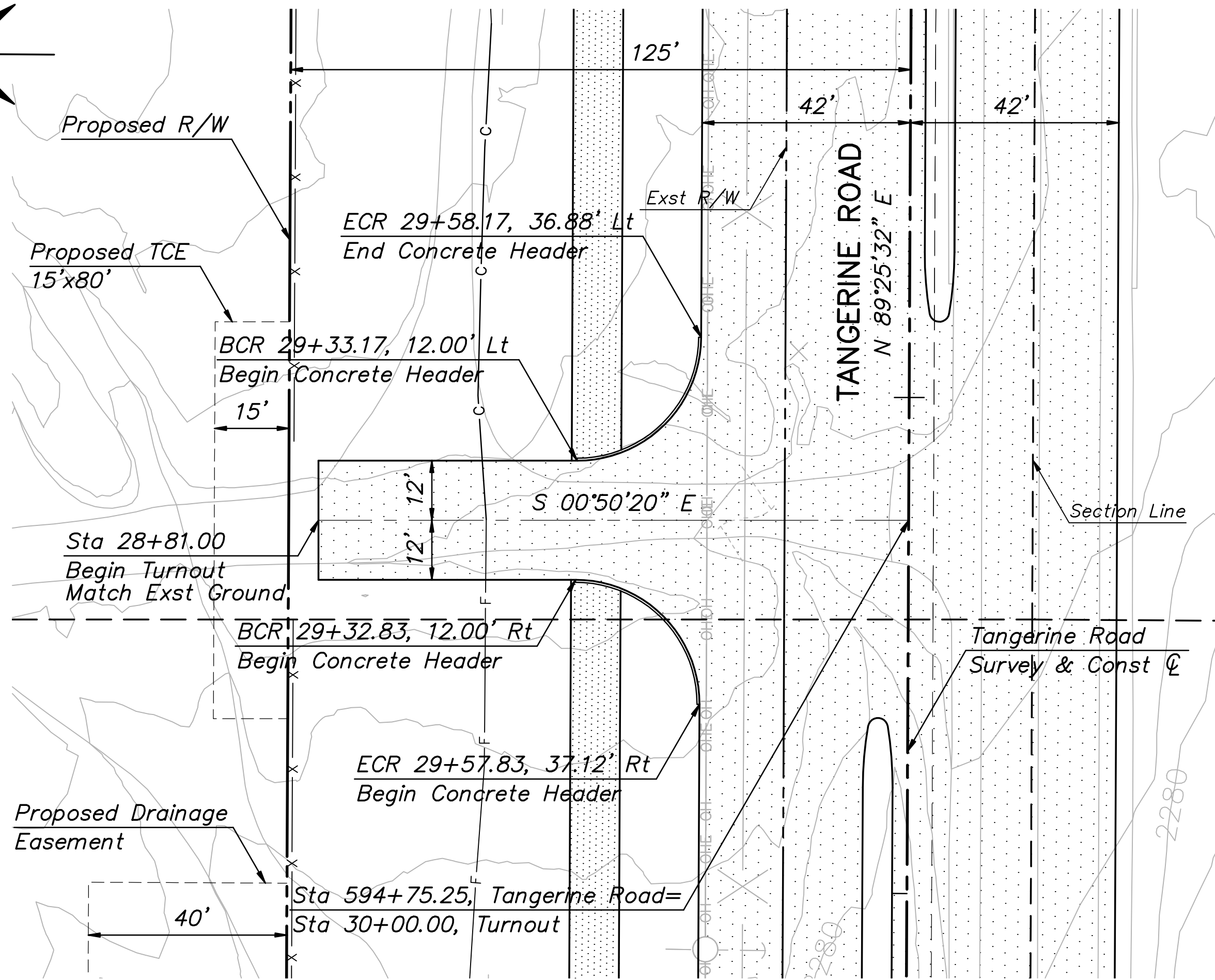
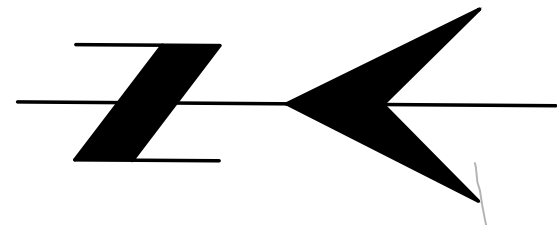
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
 SIDESTREET PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 567+00.00 TO STA 570+00.00
 TANGERINE ROAD

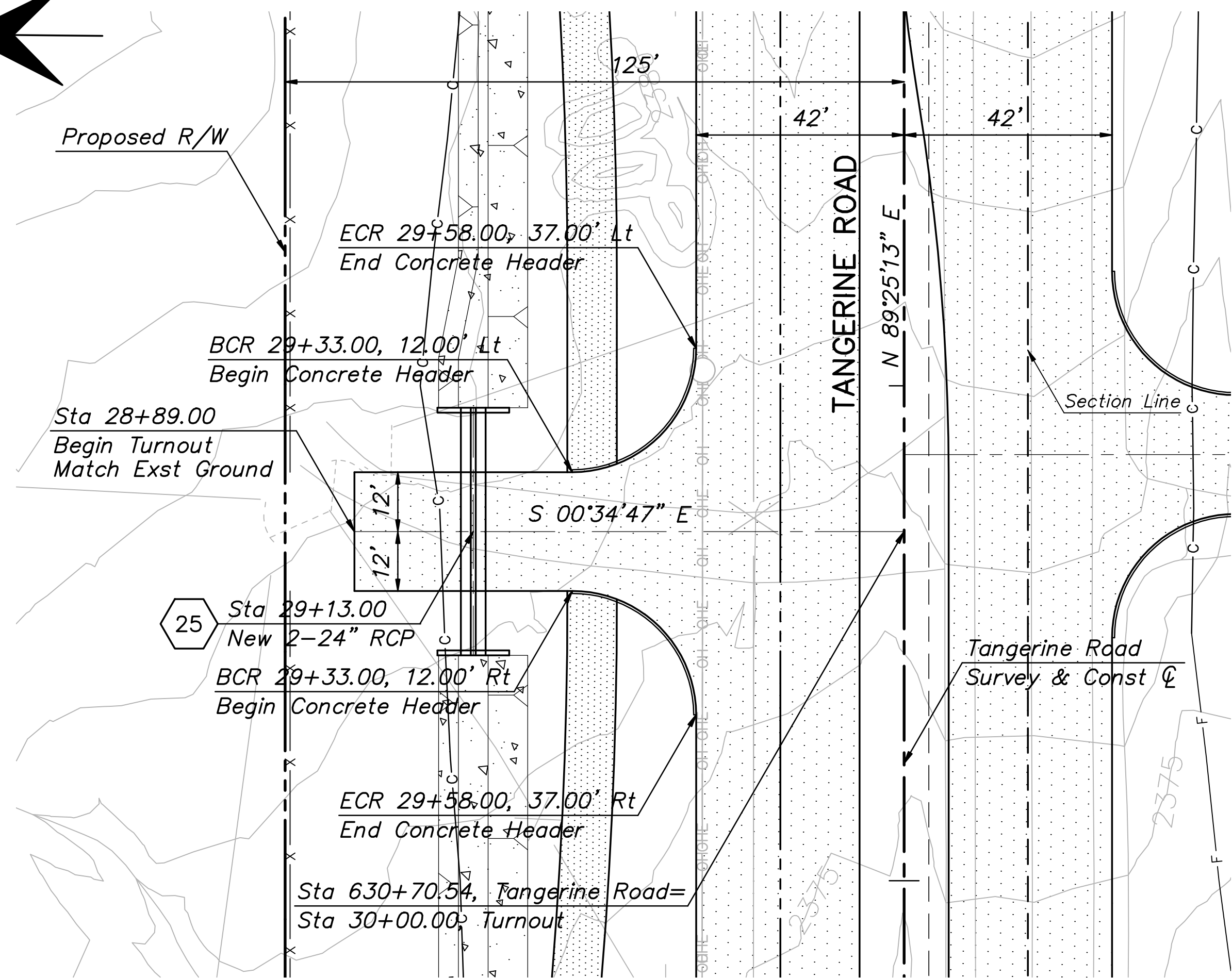
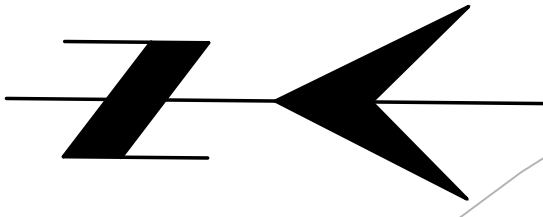
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 Blue Stake Center
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28+00

29+00

30+00



28+00

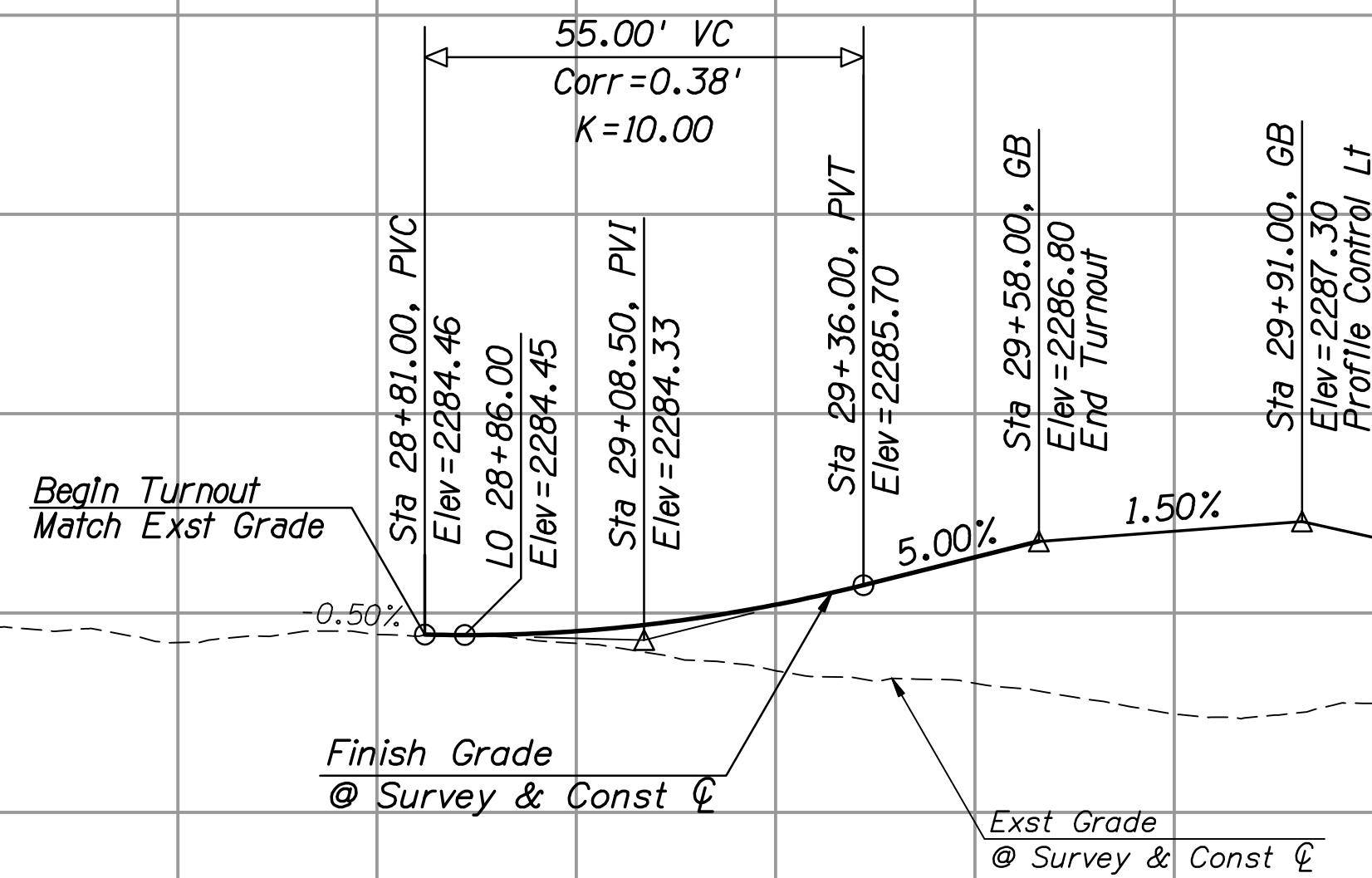
29+00

30+00

2300

2290

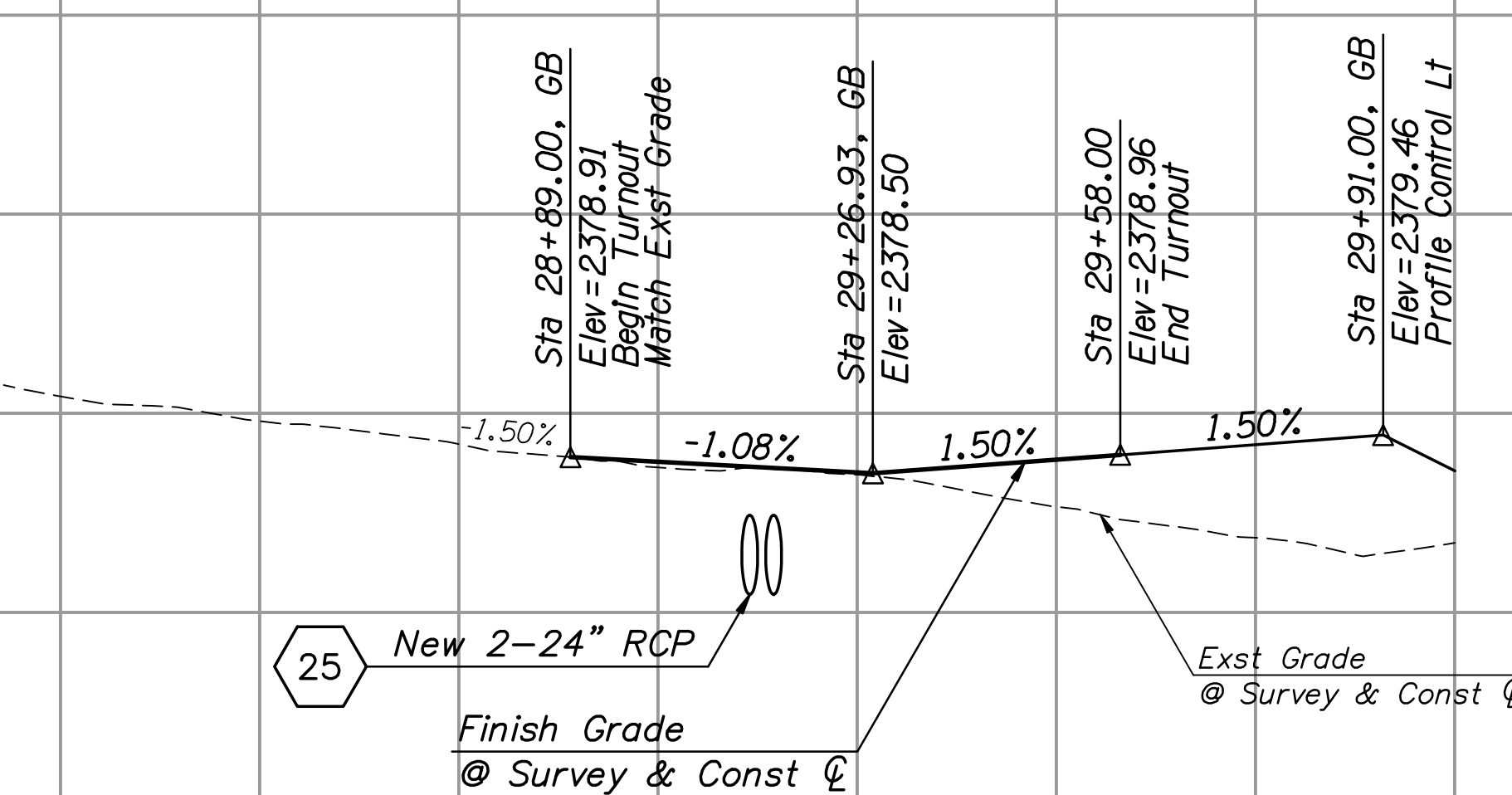
2280



2390

2380

2370



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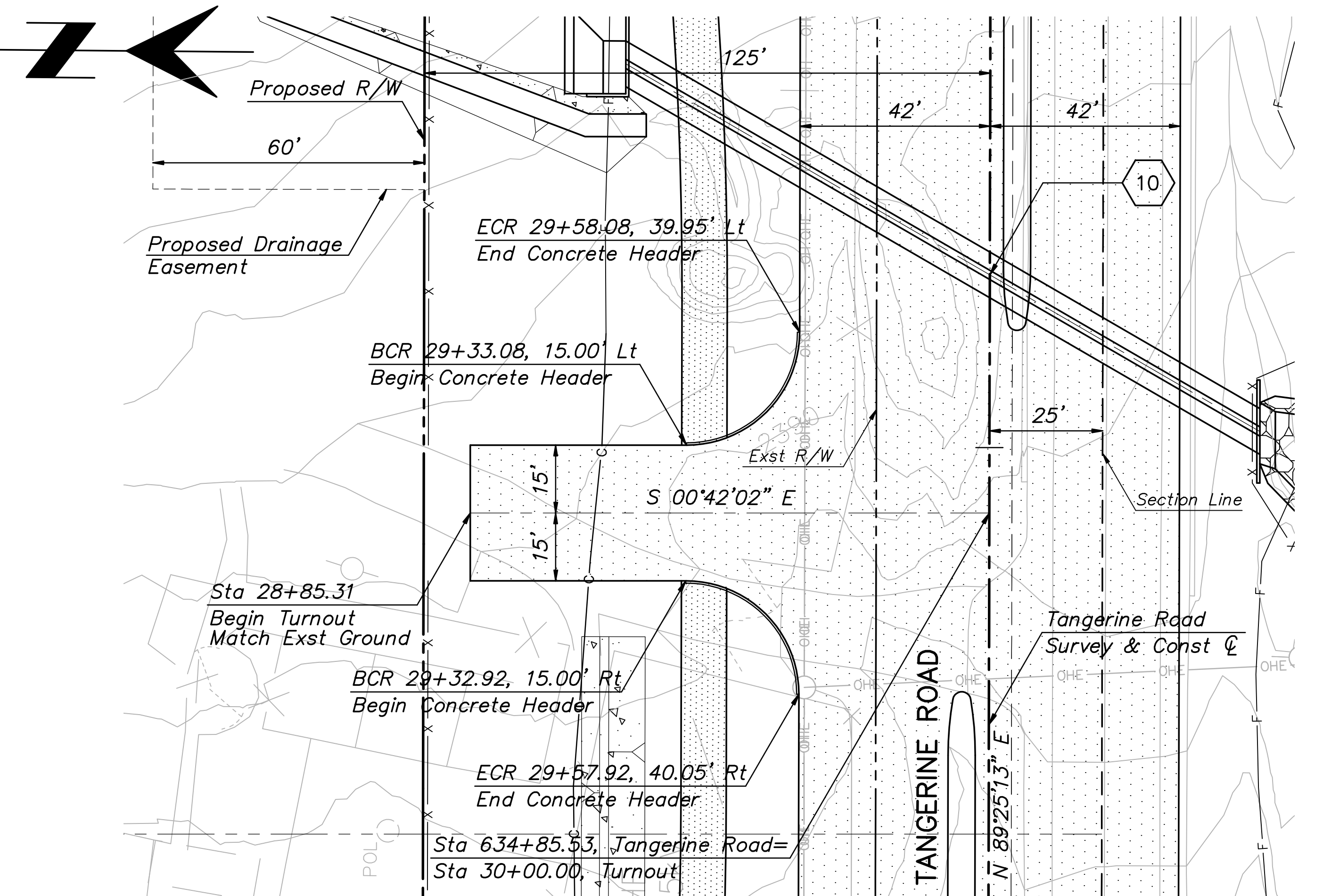
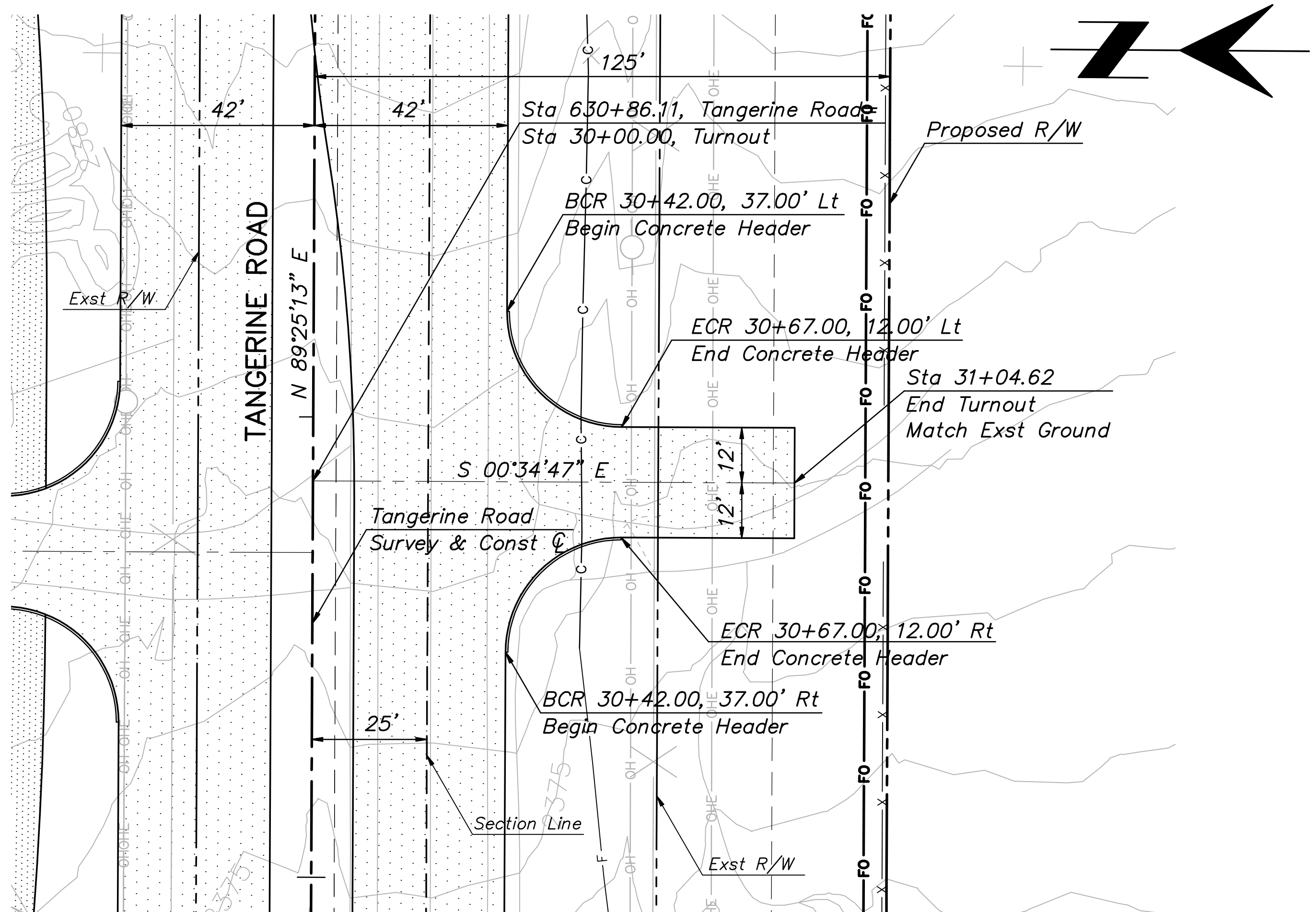
TOWN OF MARANA - PROJECT NO. 2005-061

SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 594+00.00 TO STA 632+00.00
TANGERINE ROAD

SCALES: HORIZ. 1"=20'
VERT. 1"=4'

Two working days before you dig,
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Blue Stake Center
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30+00

31+00

28+00

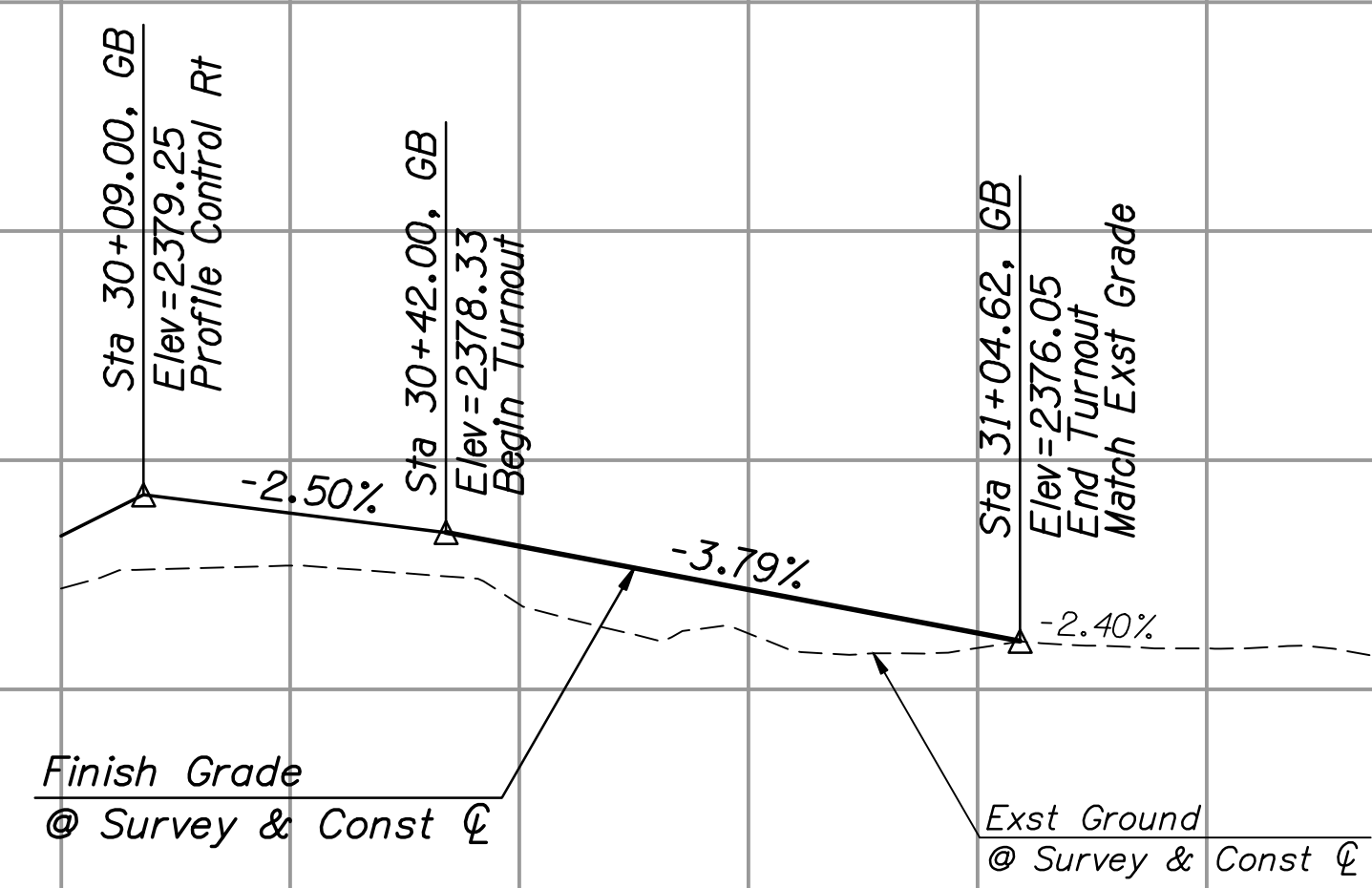
29+00

30+00

2390

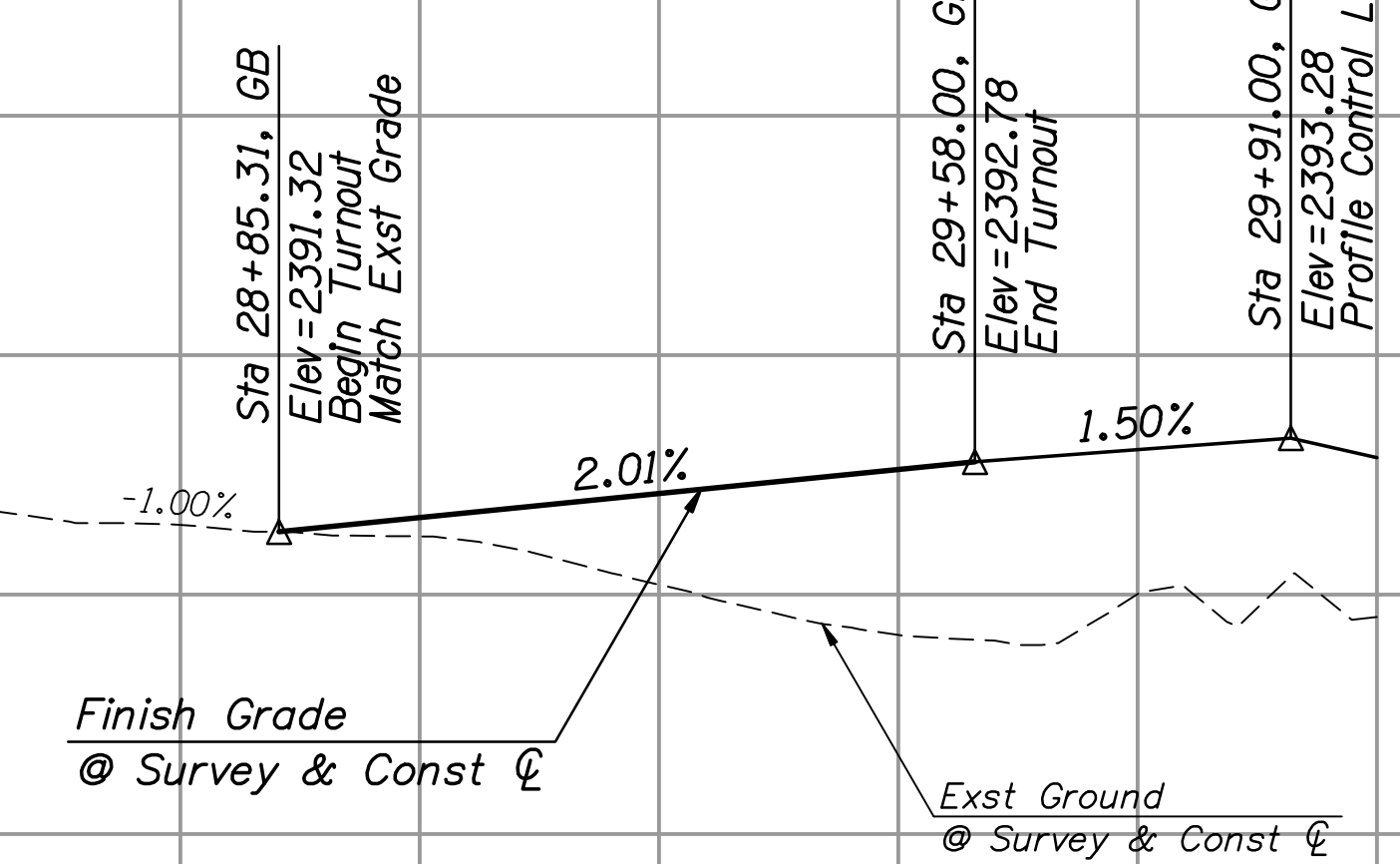
2380

2370



2400

2390



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CALL FOR THE BLUE STAKES!
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Blue Stake Center
CALL COLLECT

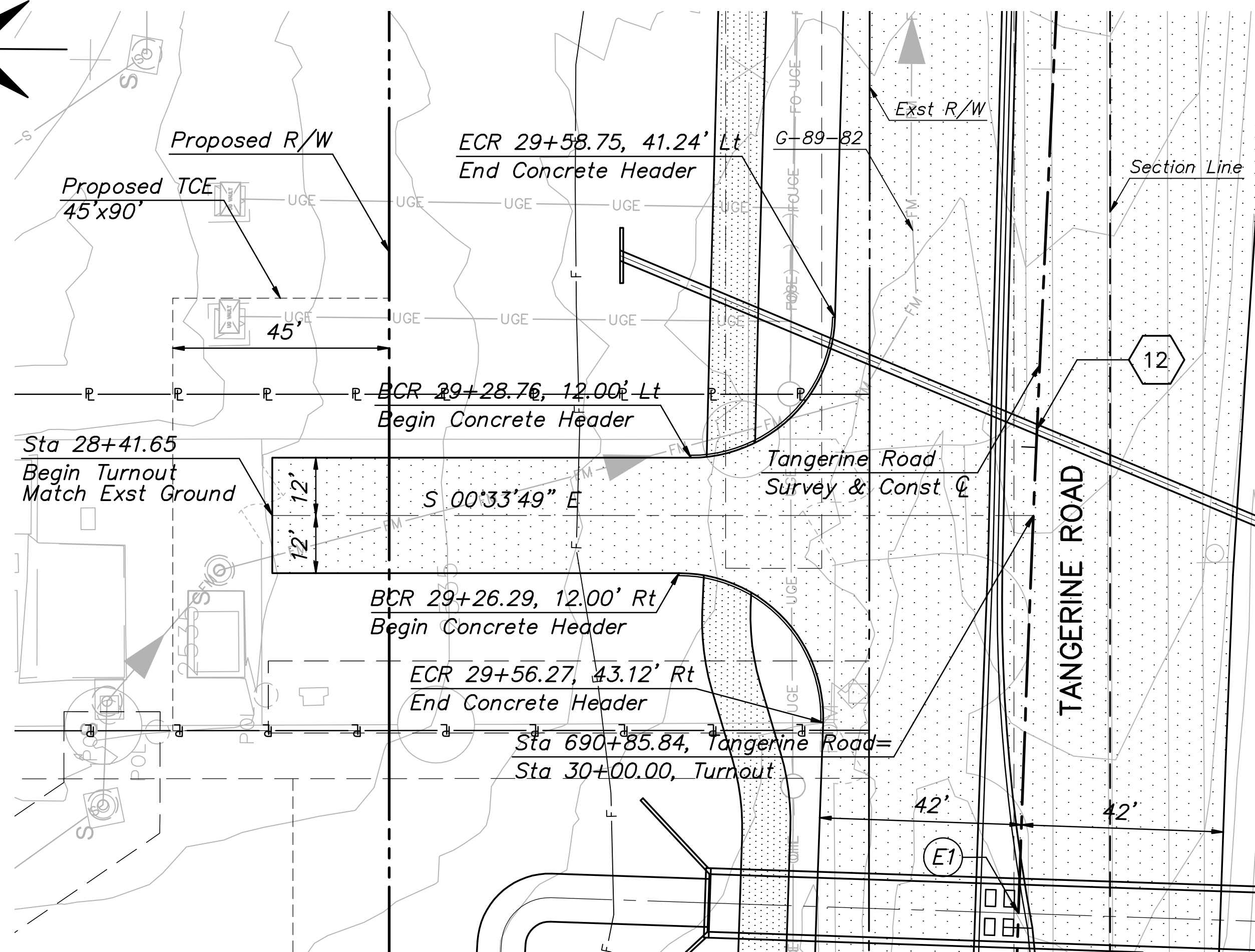
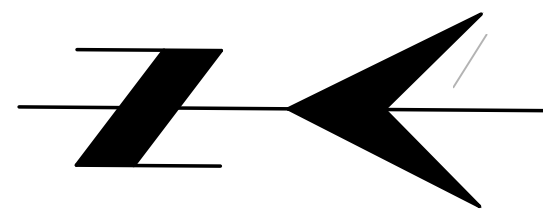
SCALES: HORIZ. 1"=20'
VERT. 1"=4'
SHEET ST09 OF ST21

TOWN OF MARANA - PROJECT NO. 2005-061

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P S O M A S
FOR
TANGERINE ROAD
STA 630+00.00 TO STA 636+00.00
TANGERINE ROAD
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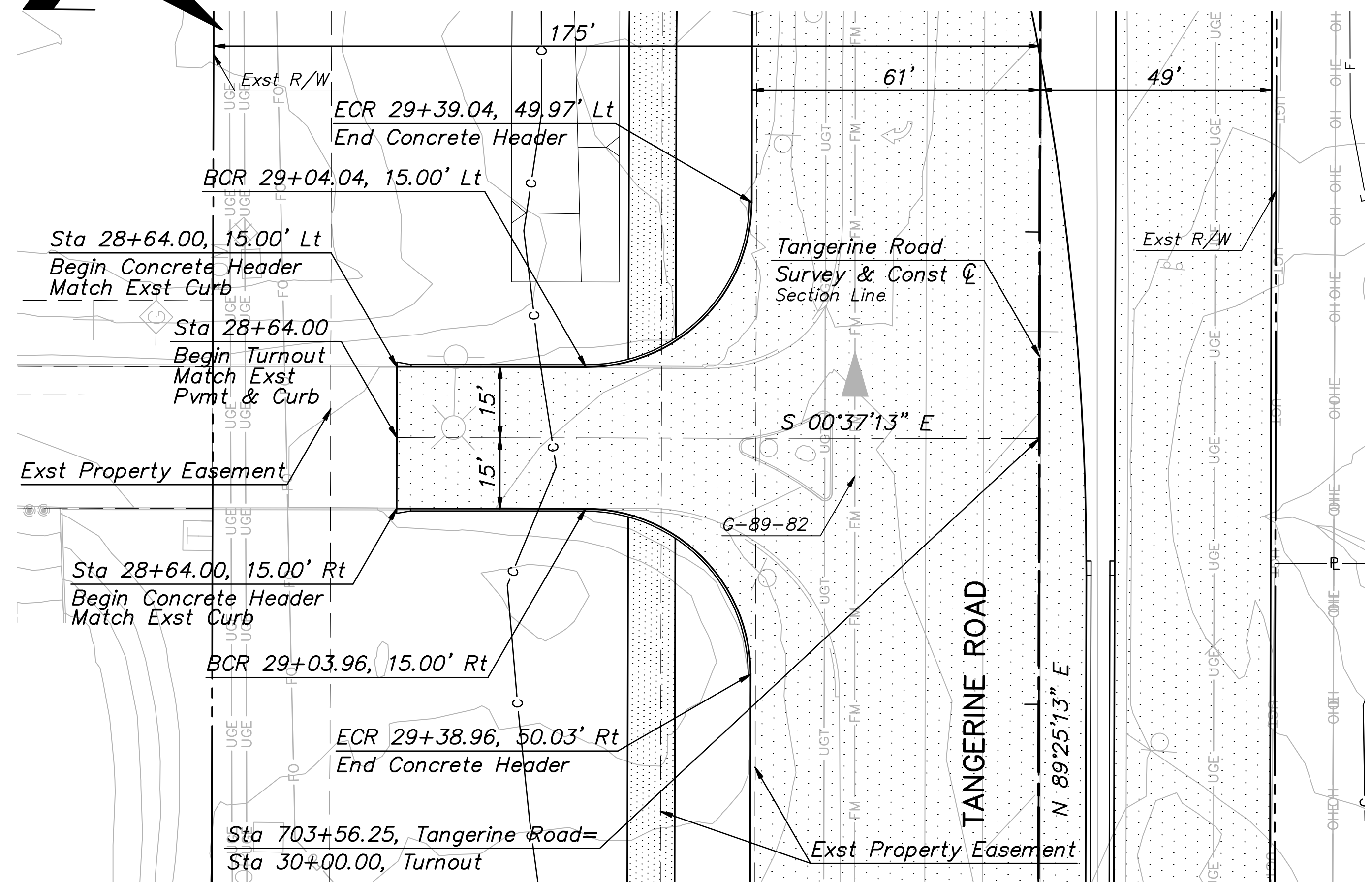
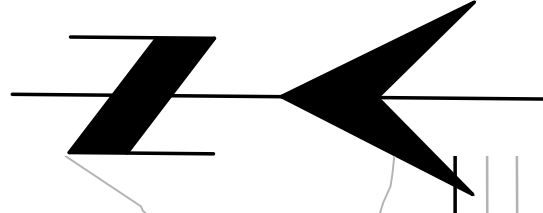
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DESIGNED:	CZ		12/12
DRAWN:	CZ		12/12
CHECKED:	AA		12/12
PROJ. ENG.:	AA		12/12



28+00

29+00

30+00



28+00

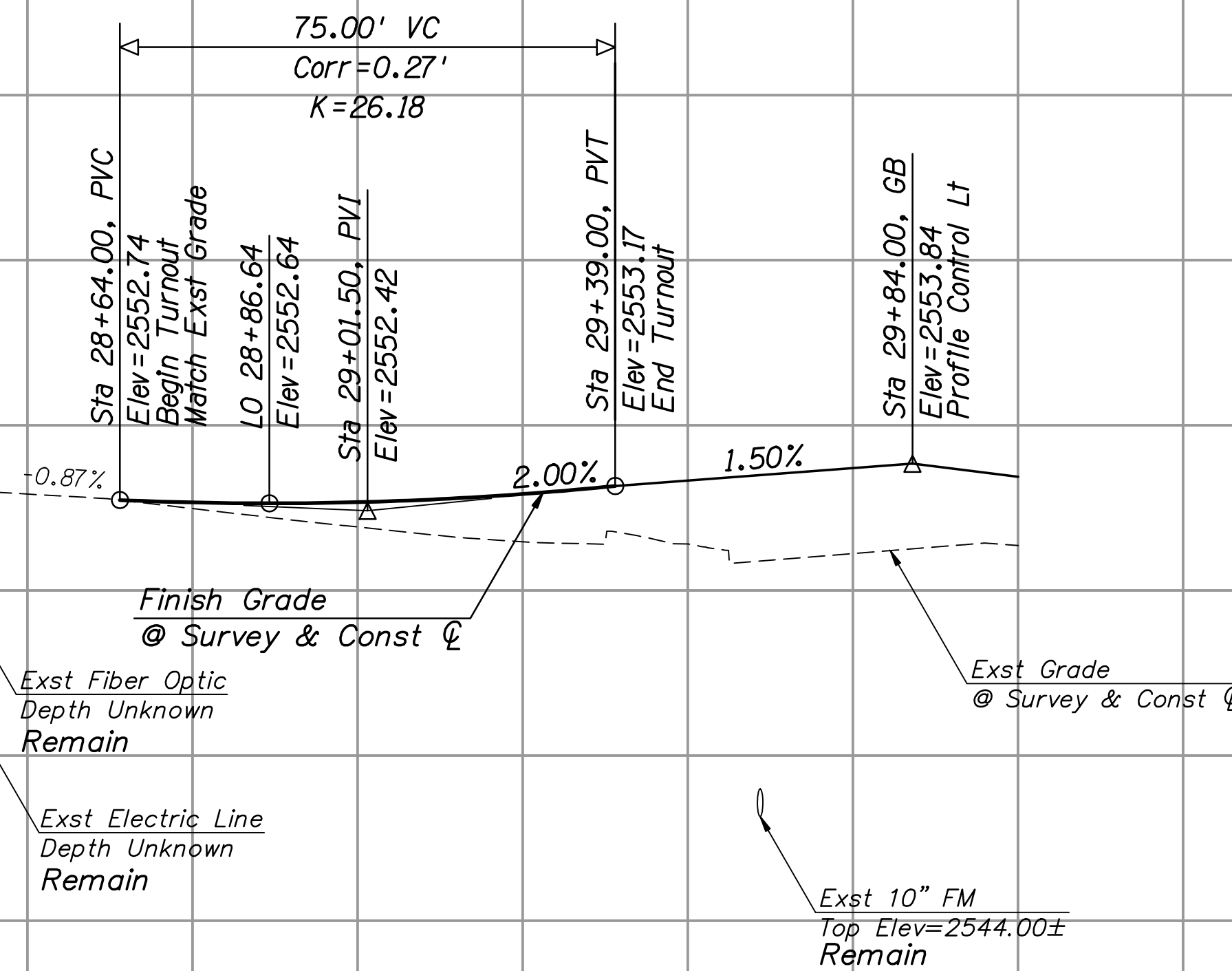
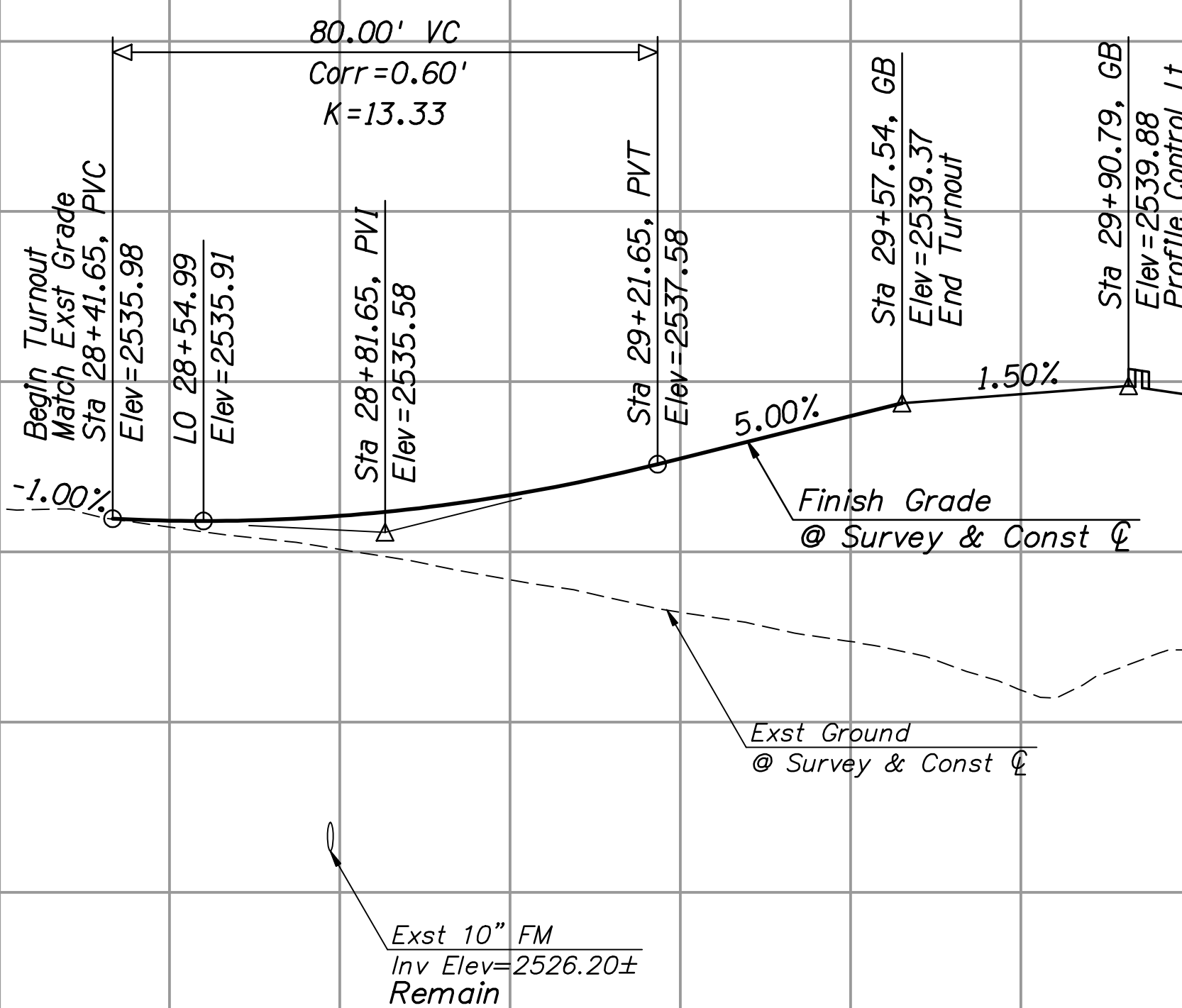
29+00

30+00

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2540

2530



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

SHEET ST10 OF ST21

TOWN OF MARANA - PROJECT NO. 2005-061

SIDESTREET PLAN AND PROFILE

FOR

TANGERINE ROAD

STA 690+00.00 TO STA 705+00.00

TANGERINE ROAD

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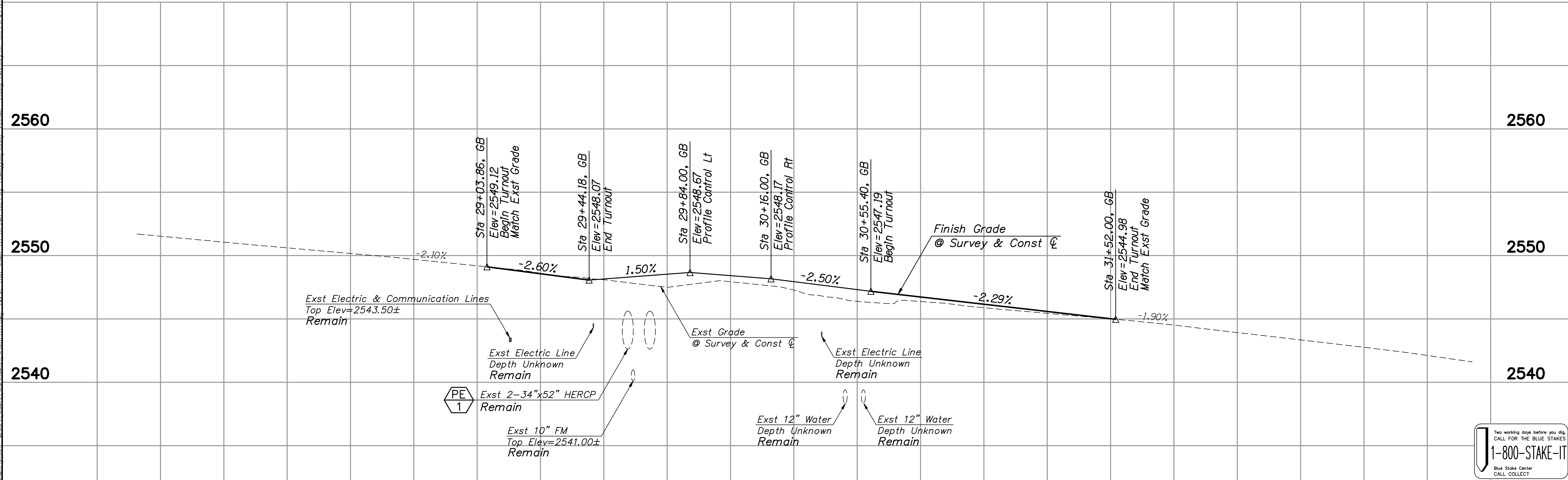
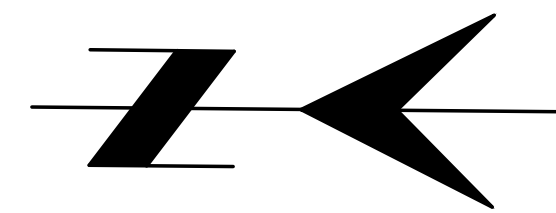
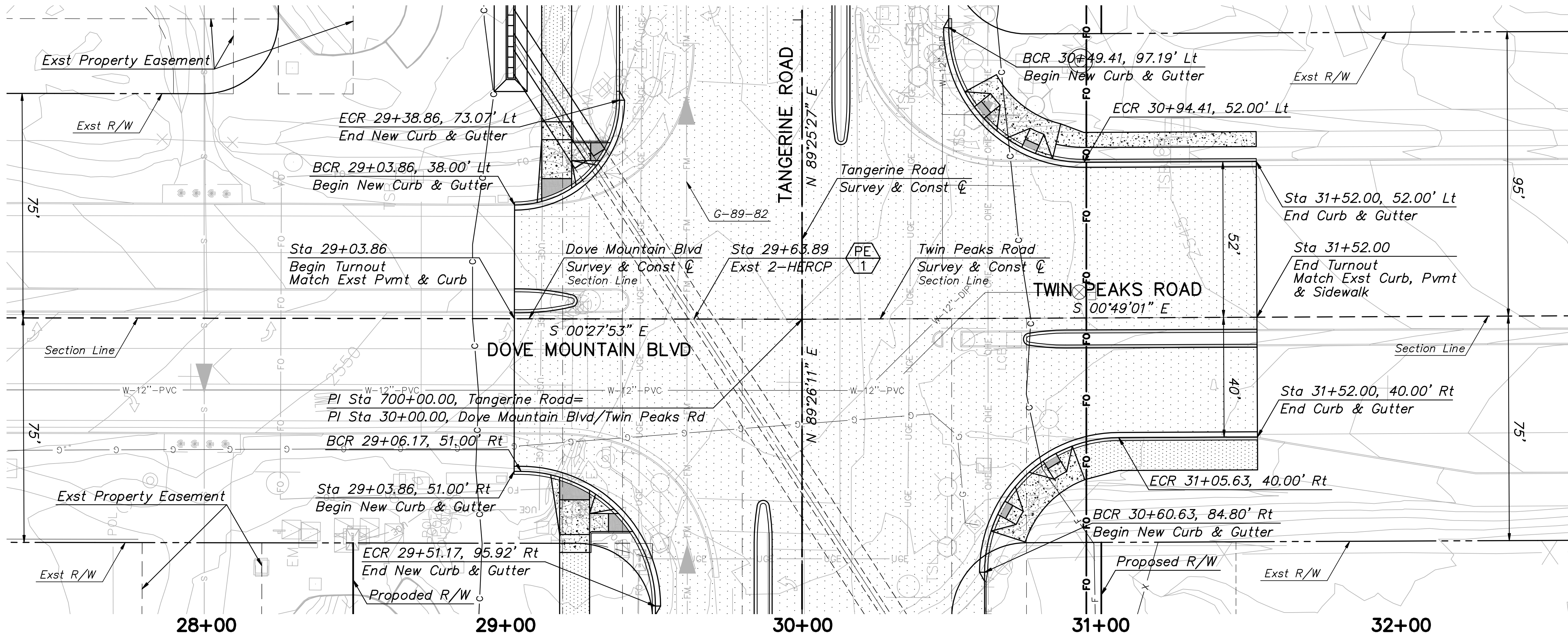
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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

DESIGNED:	DATE
CZ	12/12
DRAWN:	DATE
AA	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

PAGE 59 OF 143



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DRAWN:	CZ	DATE	12/12
CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

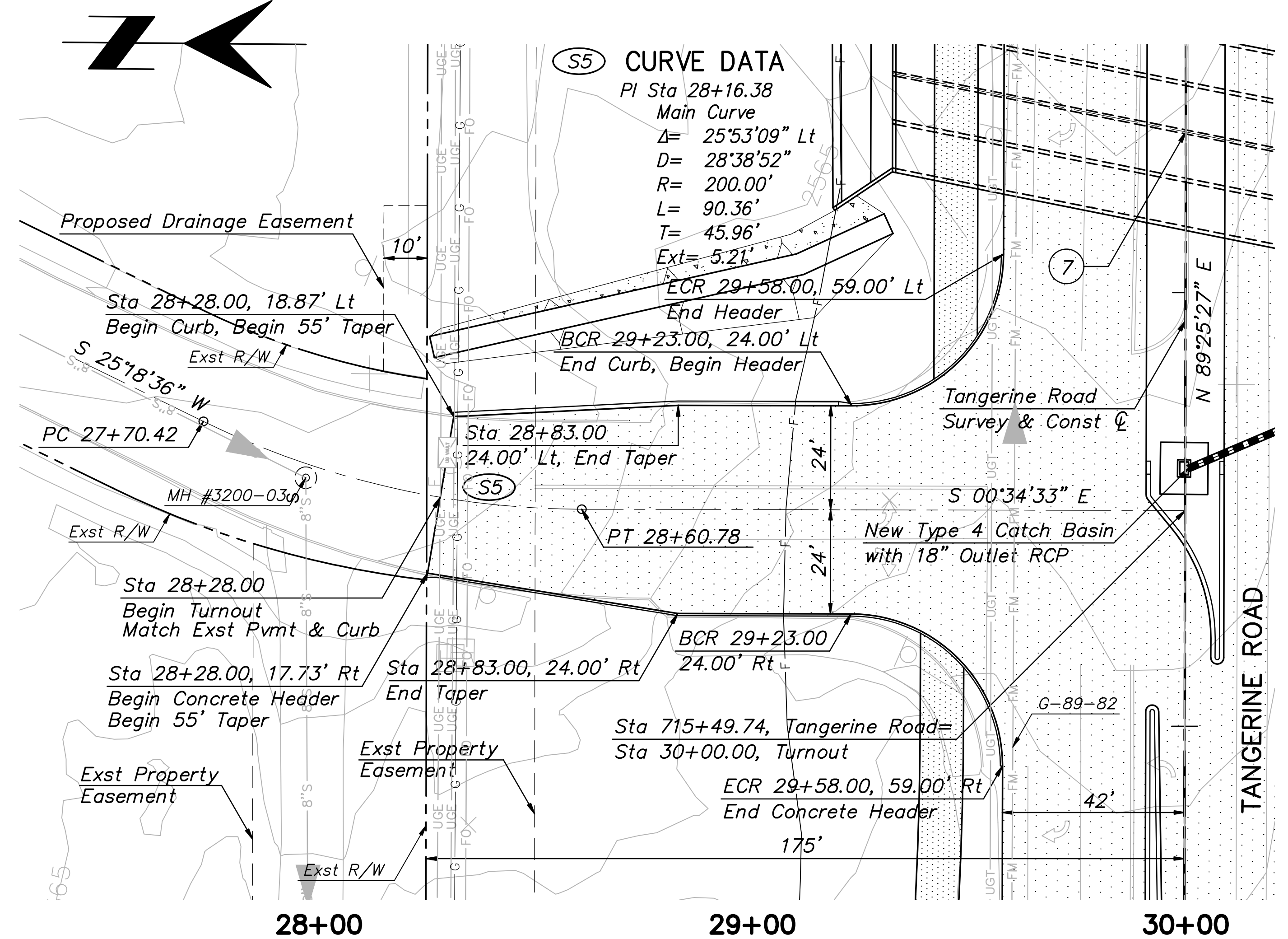
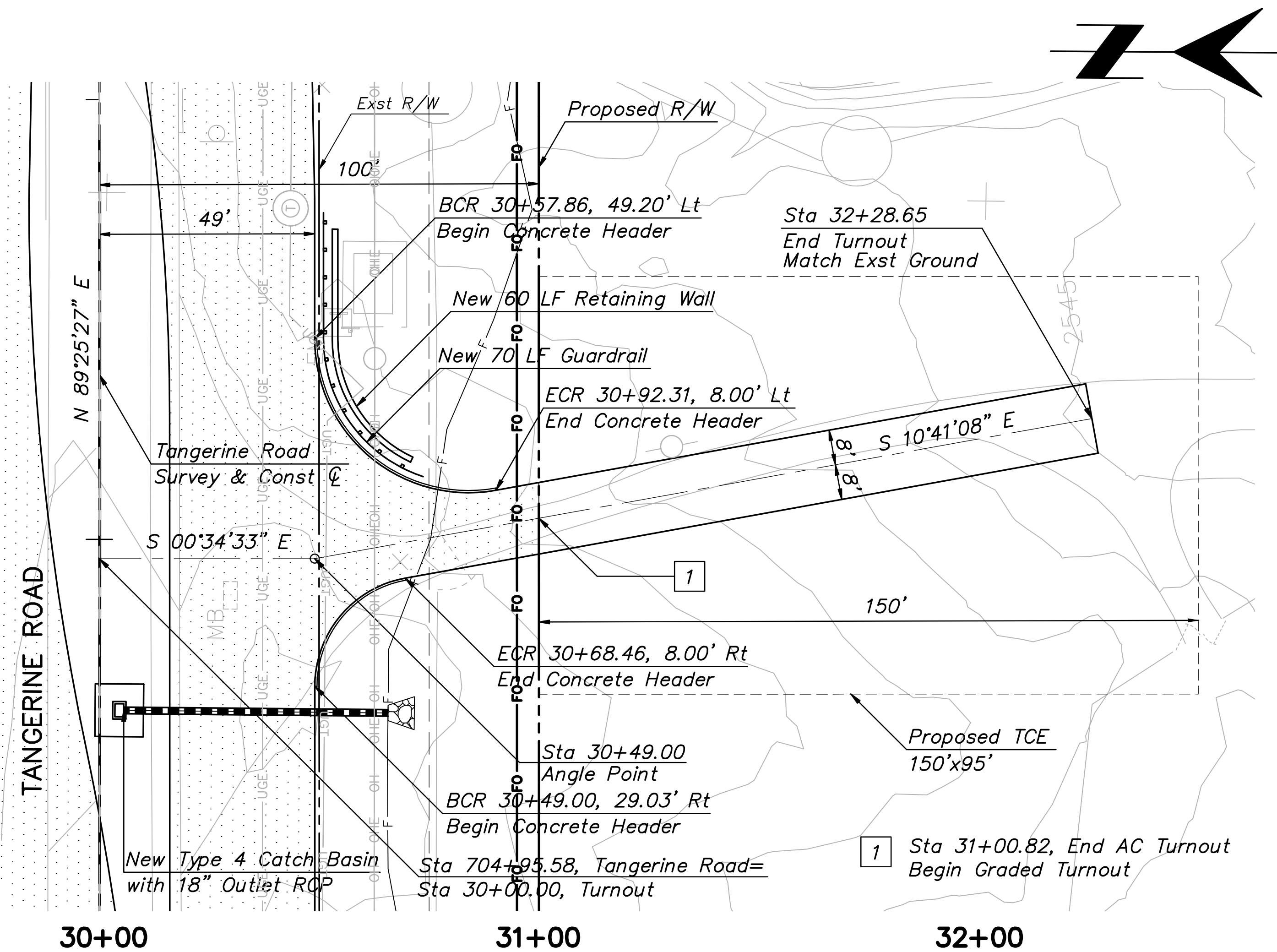
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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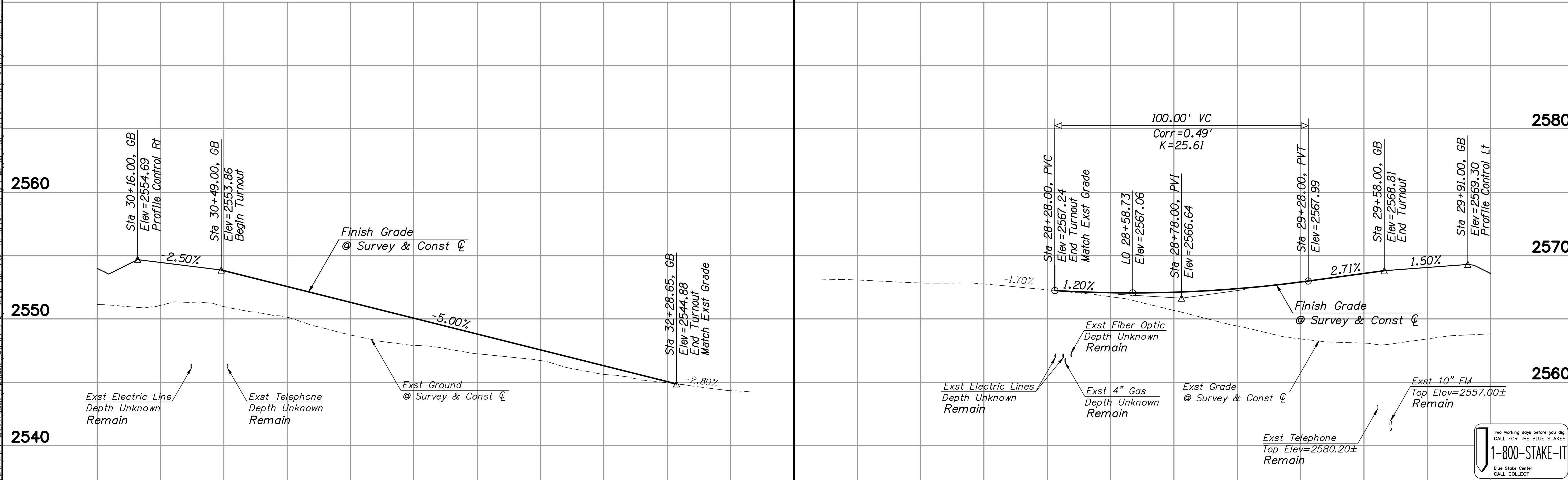
TOWN OF MARANA - PROJECT NO. 2005-061
 SIDESTREET PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 699+00.00 TO STA 701+00.00
 TANGERINE ROAD





(S5) CURVE DATA
 PI Sta 28+16.38
 Main Curve
 $\Delta = 25^{\circ}53'09''$ Lt
 $D = 28^{\circ}38'52''$
 $R = 200.00'$
 $L = 90.36'$
 $T = 45.96'$
 $Ext = 5.21'$

30+00 31+00 32+00 28+00 29+00 30+00



SCALES: HORIZ. 1"=20'
 VERT. 1"=4'

Two working days before you dig,
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 Blue Stake Center
 CALL COLLECT

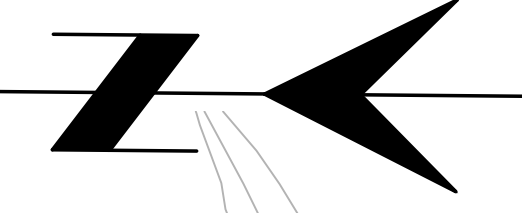
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DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

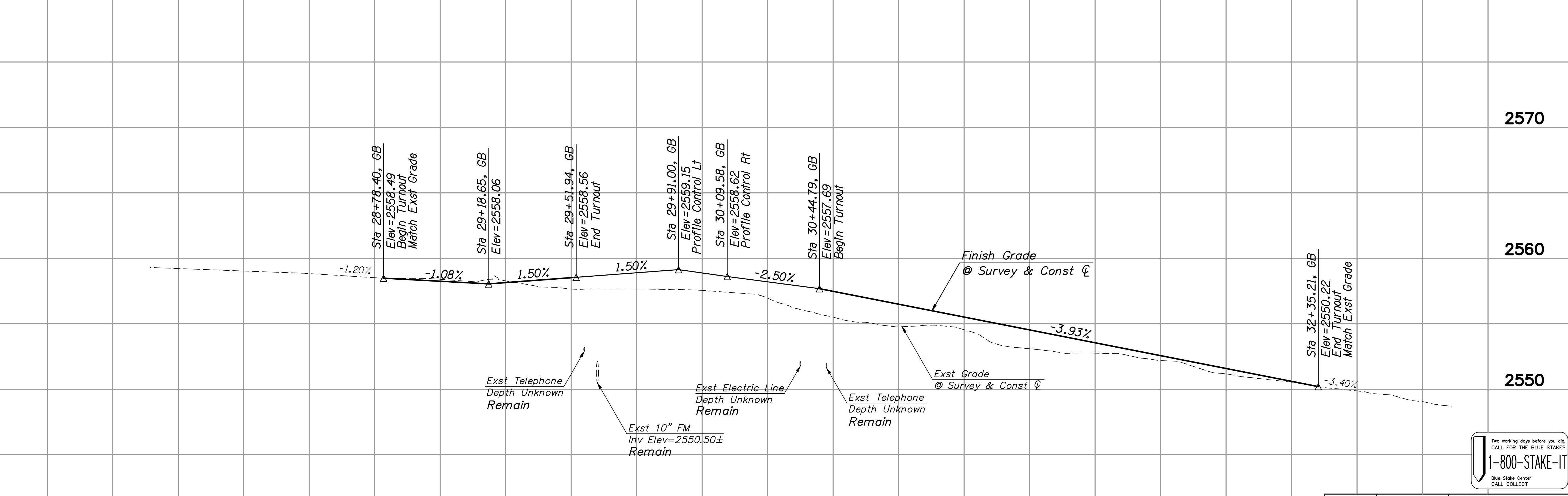
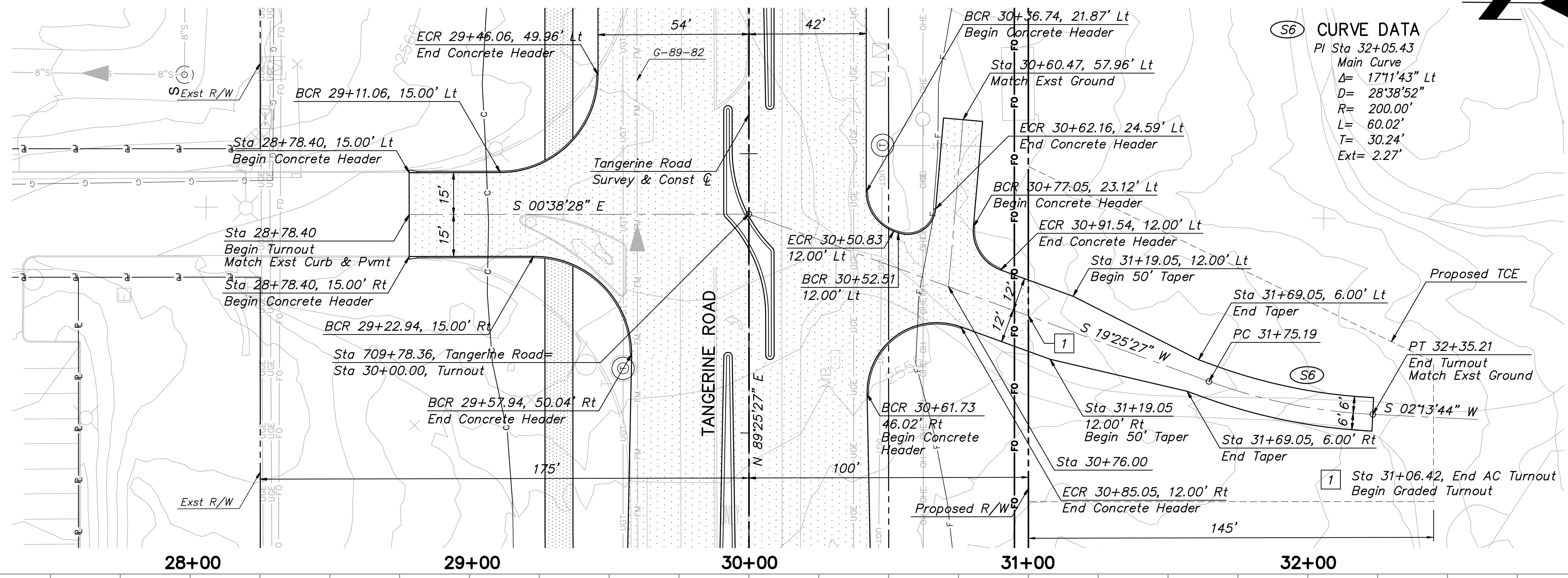
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TOWN OF MARANA - PROJECT NO. 2005-061
 SIDESTREET PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 704+00.00 TO STA 717+00.00
 TANGERINE ROAD



S6 CURVE DATA	
PI	Sta 32+05.43
Main Curve	
Δ	= 171°43"
D	= 28°38'52"
R	= 200.00'
L	= 60.02'
T	= 30.24'
Ext	= 2.27'



DATE	
DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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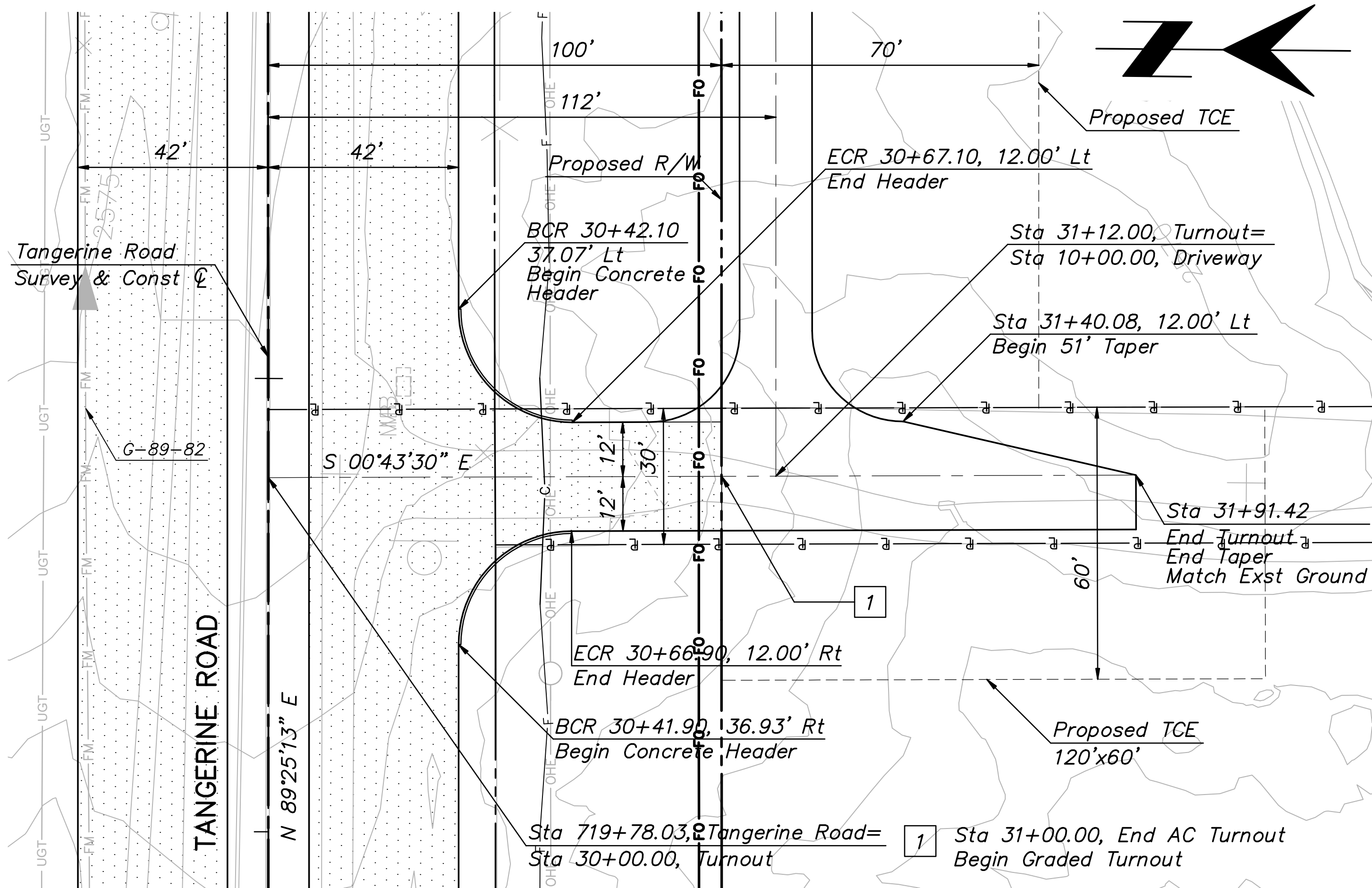
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Jackson, AZ 85705
(602) 292-2600 (520) 292-1290 fax
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TOWN OF MARANA - PROJECT NO. 2005-061
SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 708+00.00 TO STA 711+00.00
TANGERINE ROAD

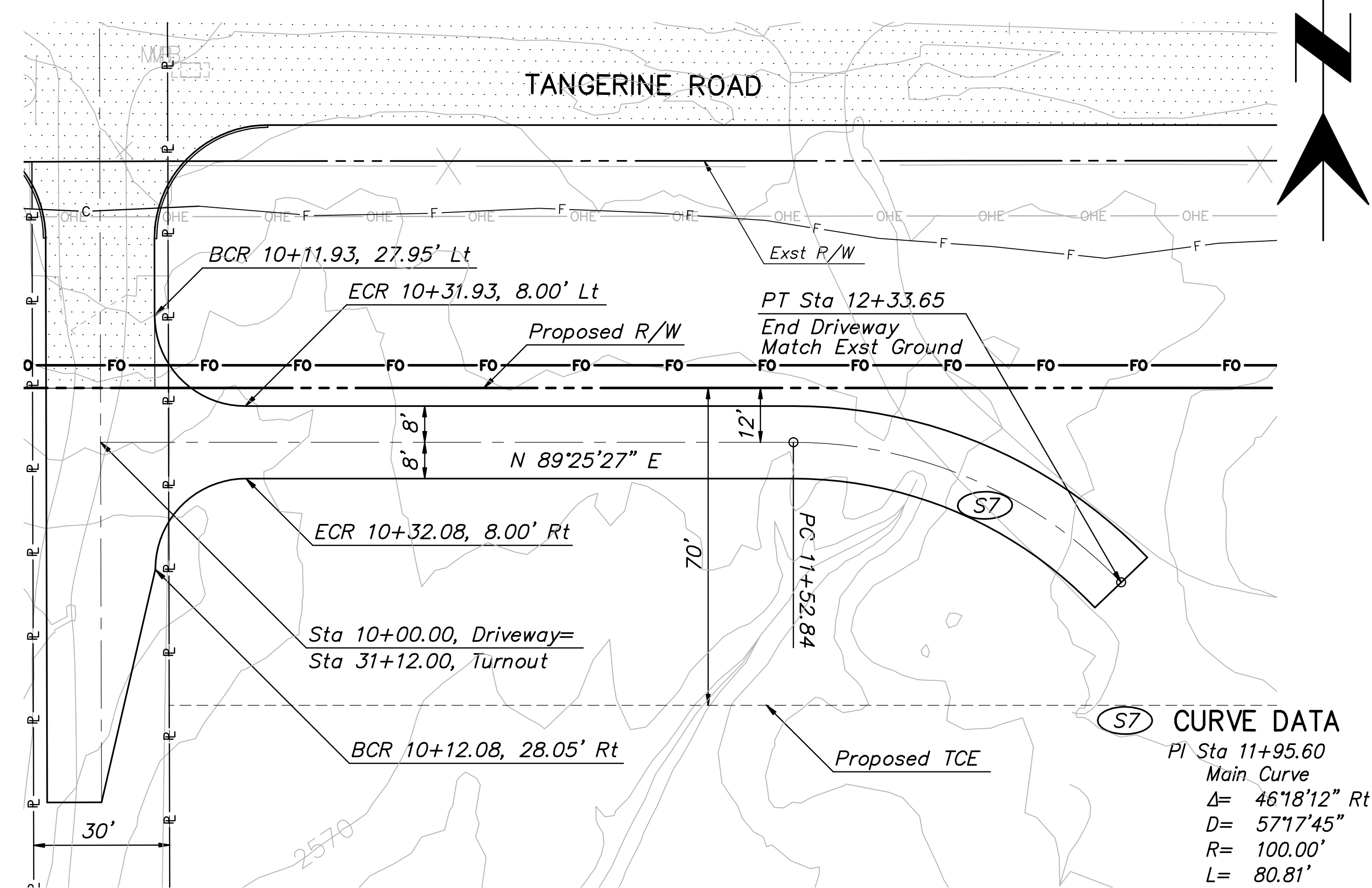


SCALES: HORIZ. 1"=20'
VERT. 1"=4'

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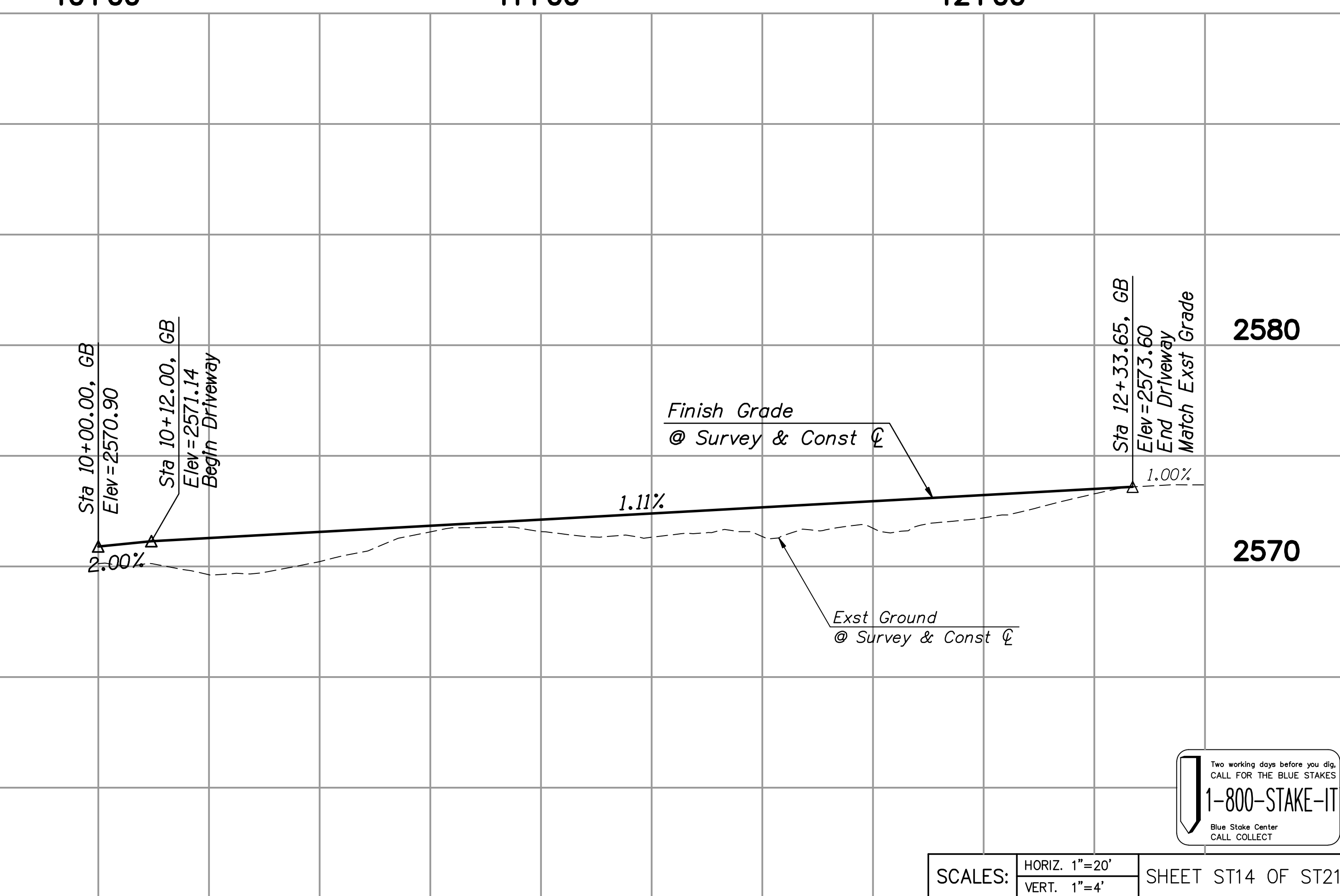
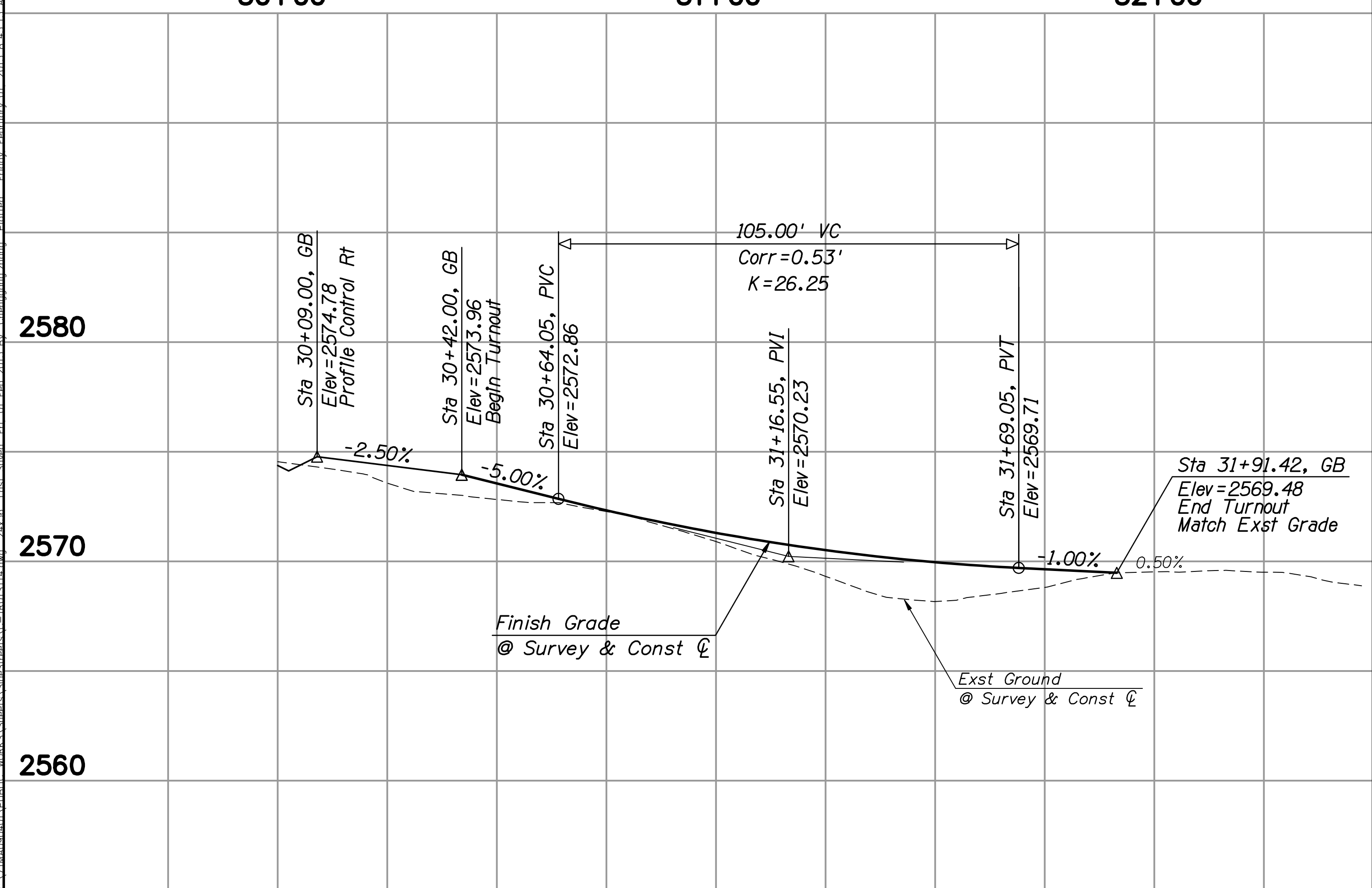
30+00 31+00 32+00



10+00 11+00 12+00

(S7) CURVE DATA

PI Sta 11+95.60
 Main Curve
 $\Delta = 46^\circ 18' 12''$ Rt
 $D = 5717' 45''$
 $R = 100.00'$
 $L = 80.81'$
 $T = 42.76'$
 $Ext = 8.76'$



DESIGNED:	CZ	DATE	12/12
DRAWN:	CZ	DATE	12/12
CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

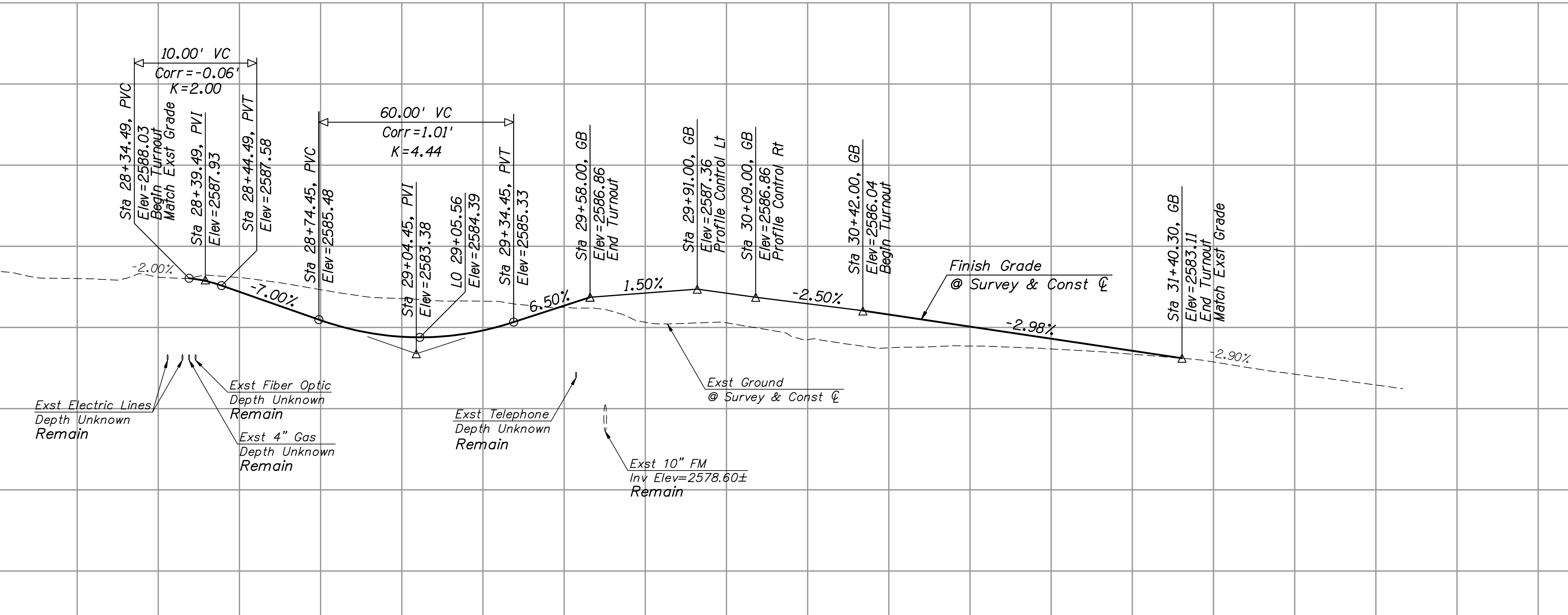
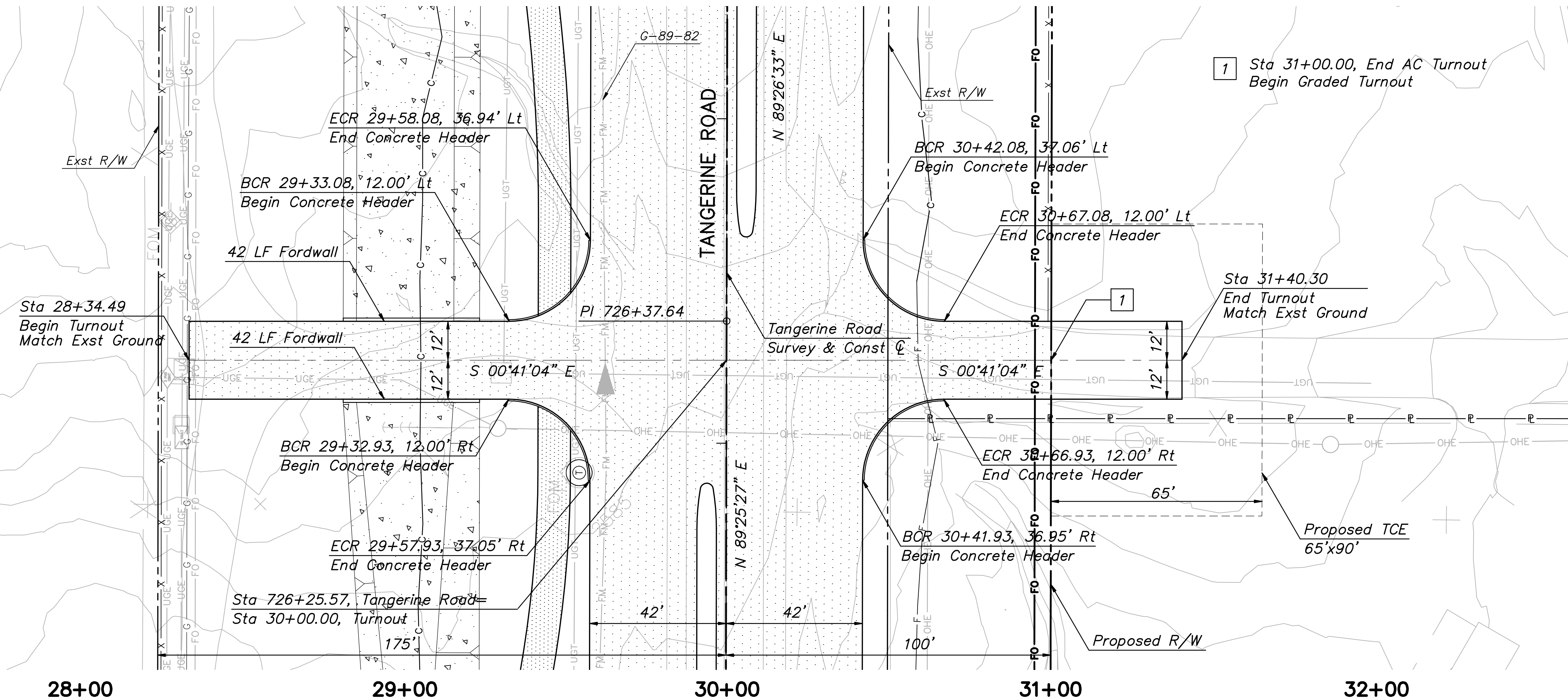
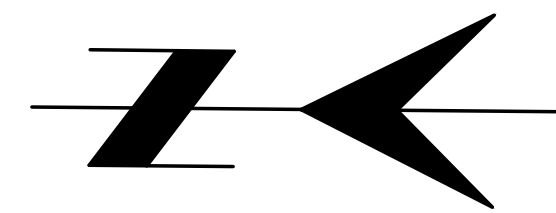
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TOWN OF MARANA - PROJECT NO. 2005-061
 SIDESTREET PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 719+00.00 TO STA 723+00.00
 TANGERINE ROAD



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Exst Electric Lines Depth Unknown Remain
 Exst Fiber Optic Depth Unknown Remain
 Exst 4" Gas Depth Unknown Remain
 Exst Telephone Depth Unknown Remain
 Exst 10" FM Inv Elev=2578.60± Remain
 Exst Ground @ Survey & Const ϕ

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DRAWN:	CZ
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PROJ. ENG.:	AA

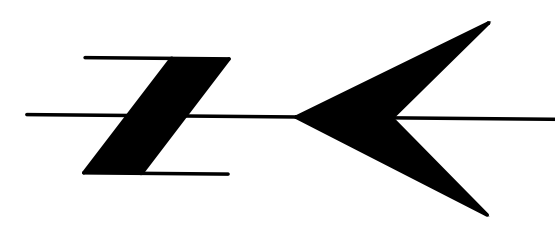
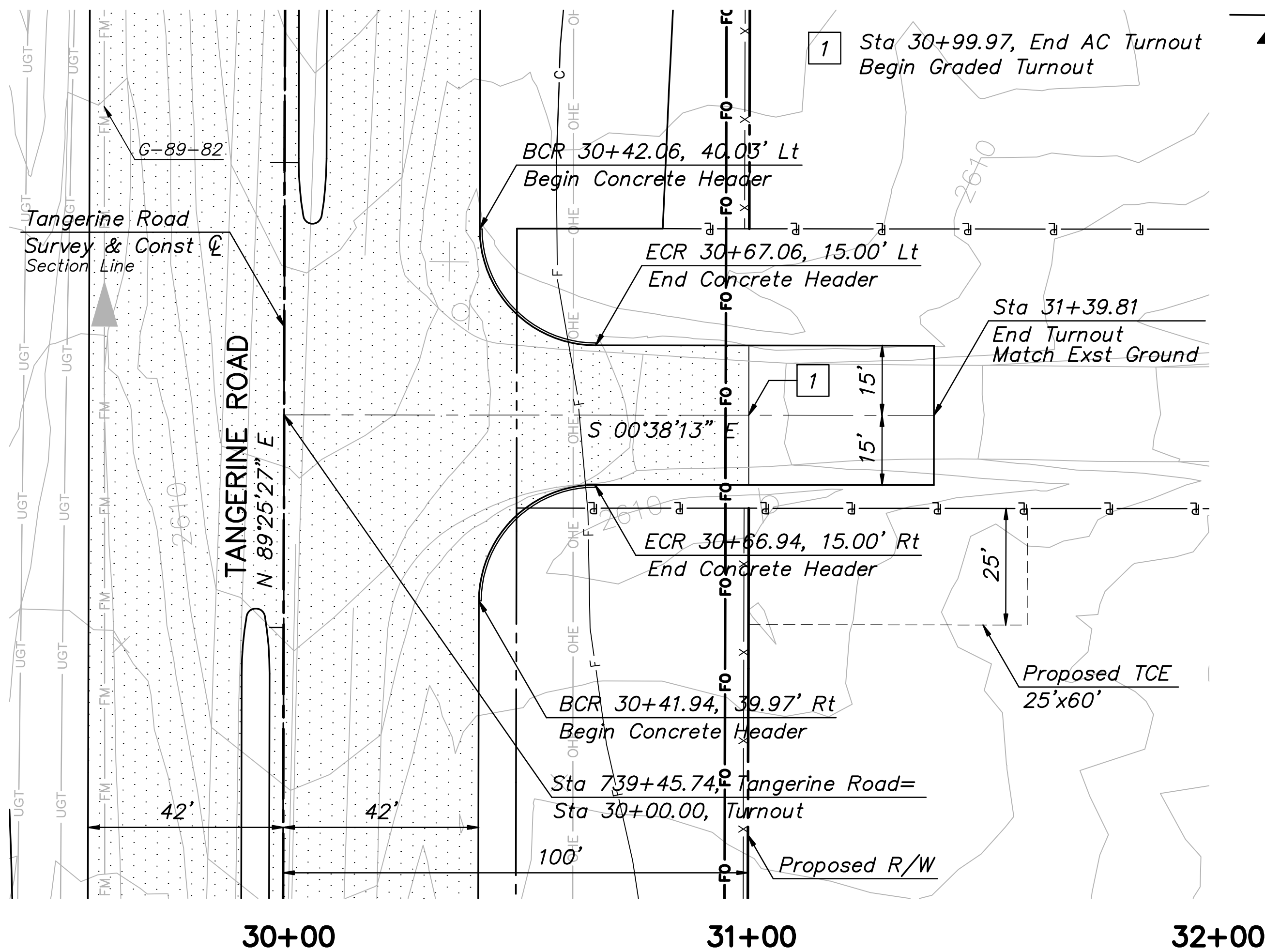
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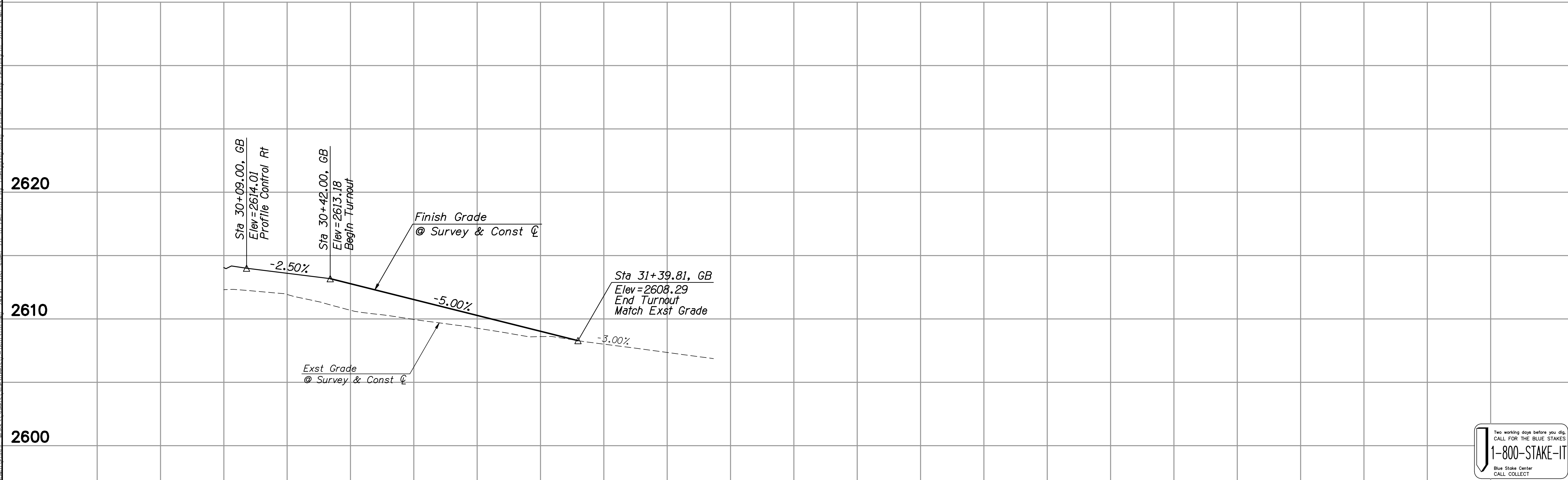
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 SIDESTREET PLAN AND PROFILE FOR TANGERINE ROAD
 STA 725+00.00 TO STA 727+00.00
 TANGERINE ROAD

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30+00 31+00 32+00



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SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 736+00.00 TO STA 741+00.00
TANGERINE ROAD

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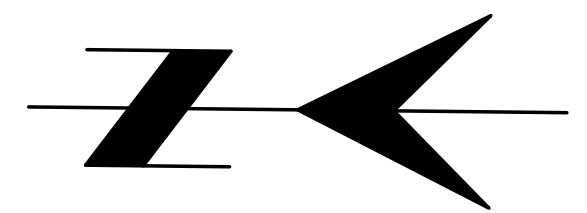
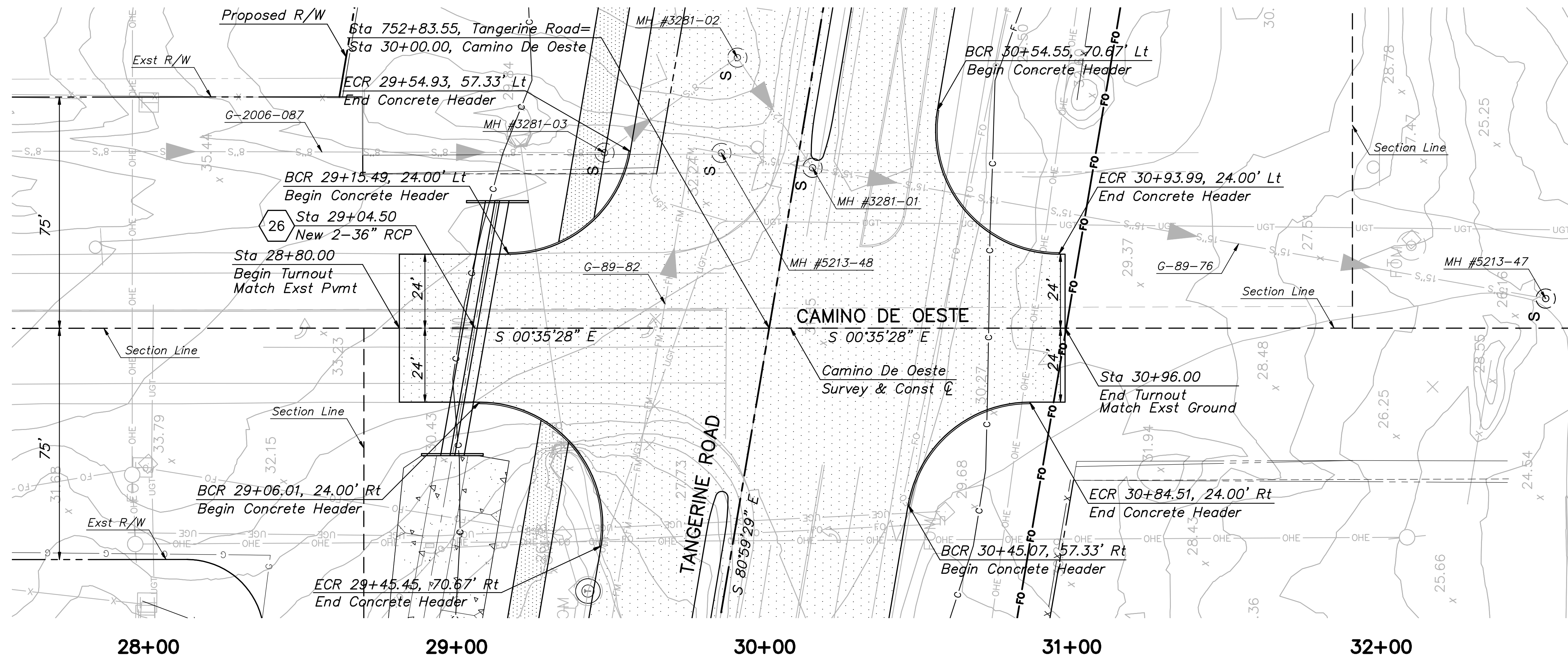
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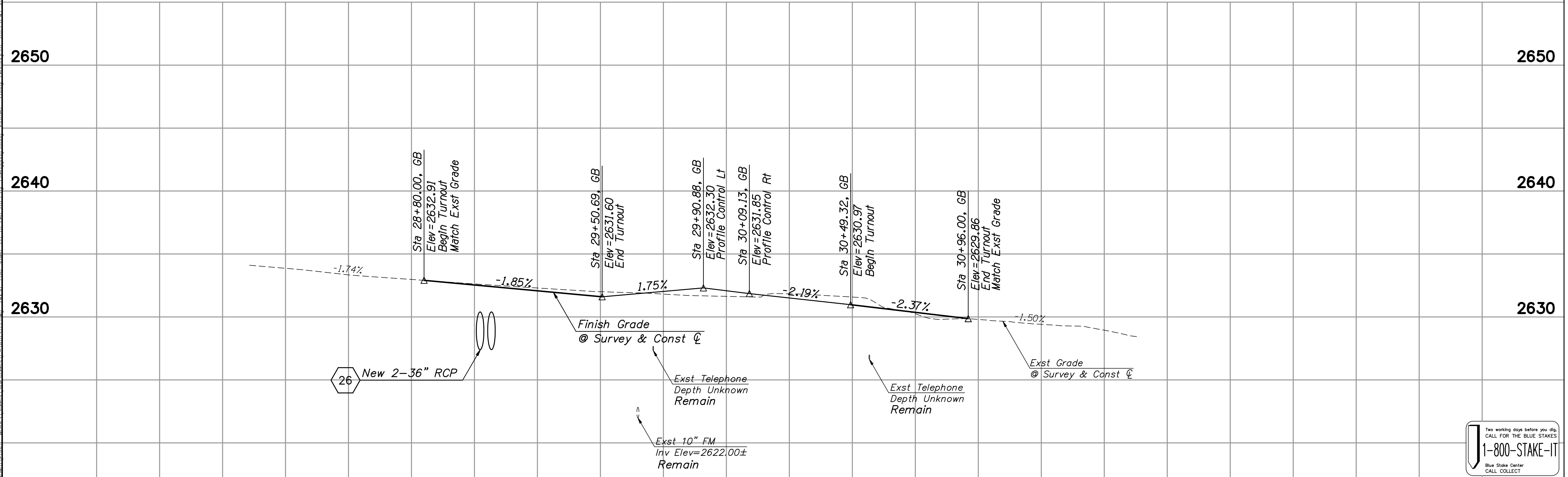
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DRAWN:	DATE
CZ	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

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28+00 29+00 30+00 31+00 32+00 33+00



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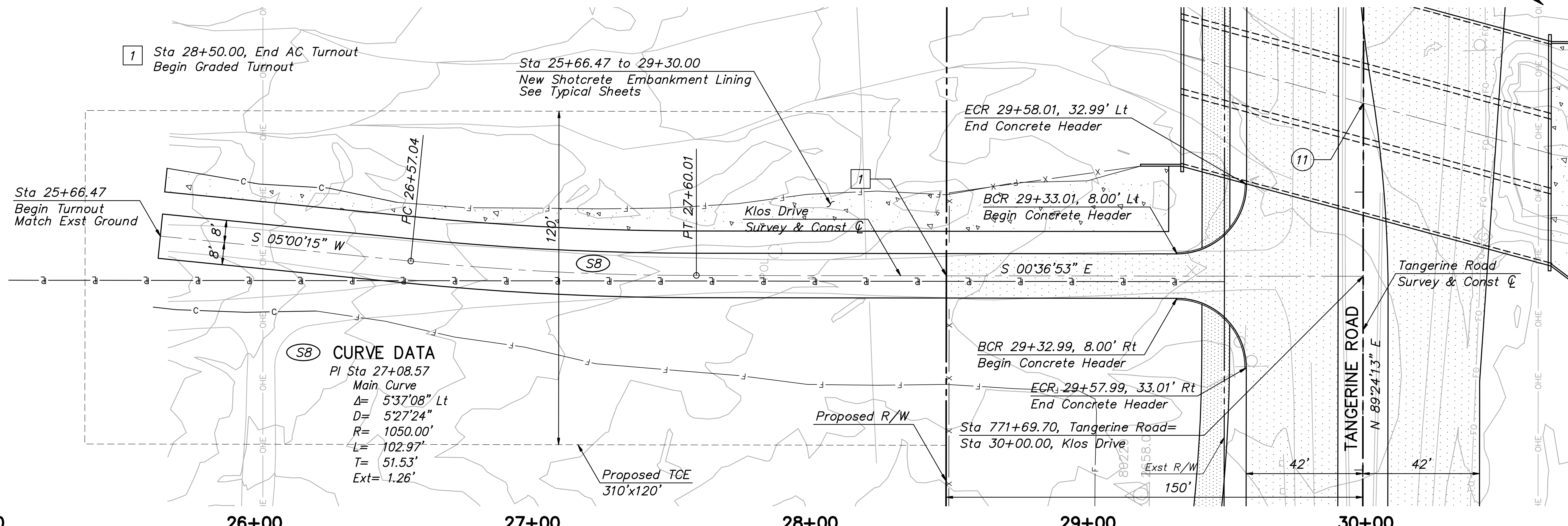
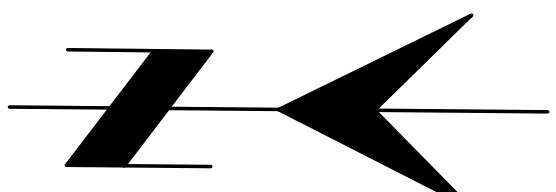
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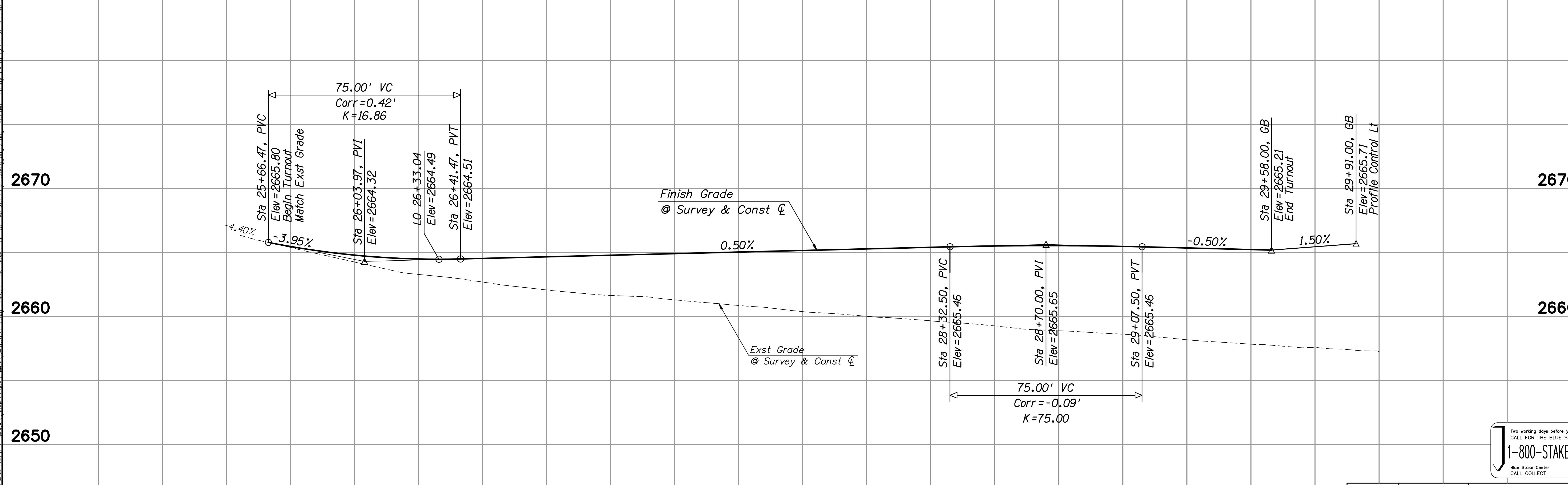
TOWN OF MARANA - PROJECT NO. 2005-061
 SIDESTREET PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 752+00.00 TO STA 754+00.00
 TANGERINE ROAD





(S8) CURVE DATA
 PI Sta 27+08.57
 Main Curve
 $\Delta = 5^\circ 37' 08''$ Lt
 $D = 5^\circ 27' 24''$
 $R = 1050.00'$
 $L = 102.97'$
 $T = 51.53'$
 $Ext = 1.26'$

25+00 26+00 27+00 28+00 29+00 30+00



2670
2660
2650

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SCALES: HORIZ. 1"=20'
 VERT. 1"=4' SHEET ST18 OF ST21

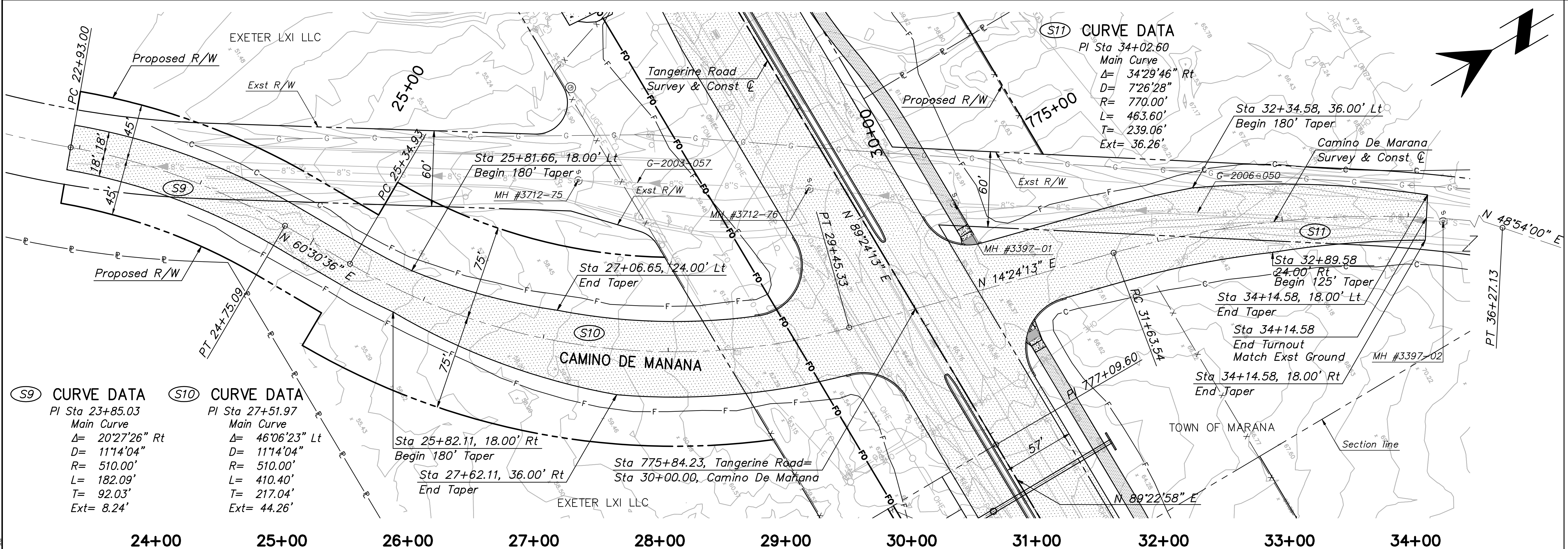
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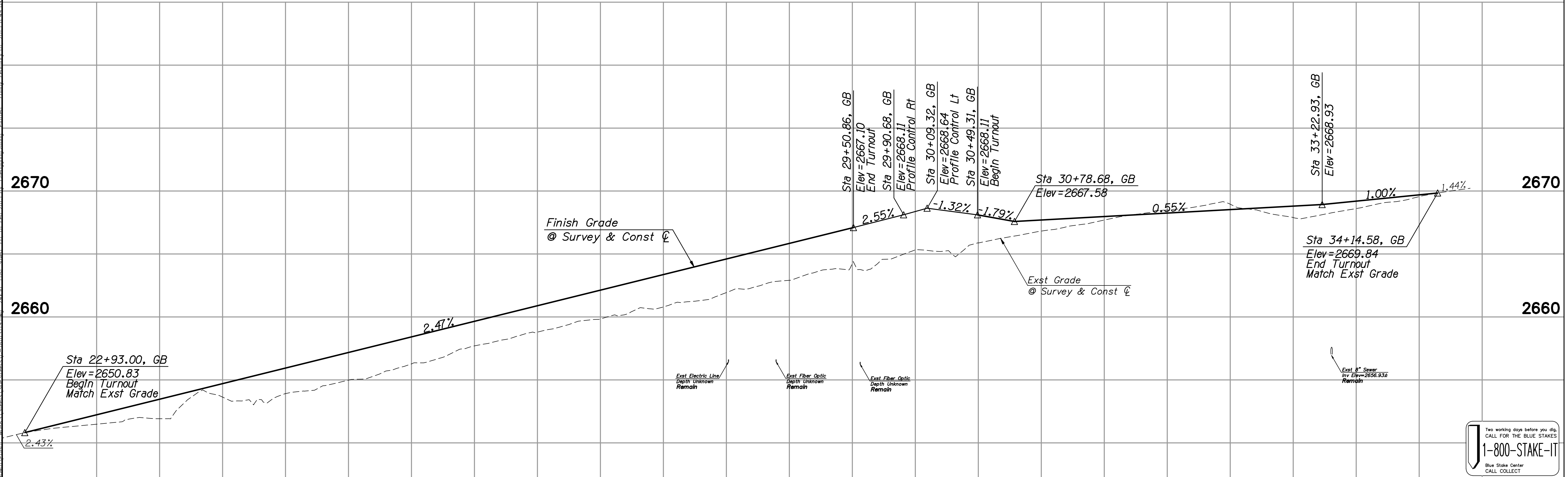
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 SIDESTREET PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 771+00.00 TO STA 773+00.00
 TANGERINE ROAD



(S11) CURVE DATA
 PI Sta 34+02.60
 Main Curve
 $\Delta = 34^{\circ}29'46''$ Rt
 $D = 726'28''$
 $R = 770.00'$
 $L = 463.60'$
 $T = 239.06'$
 $Ext = 36.26'$

(S9) CURVE DATA
 PI Sta 23+85.03
 Main Curve
 $\Delta = 20^{\circ}27'26''$ Rt
 $D = 1114'04''$
 $R = 510.00'$
 $L = 182.09'$
 $T = 92.03'$
 $Ext = 8.24'$

(S10) CURVE DATA
 PI Sta 27+51.97
 Main Curve
 $\Delta = 46^{\circ}06'23''$ Lt
 $D = 1114'04''$
 $R = 510.00'$
 $L = 410.40'$
 $T = 217.04'$
 $Ext = 44.26'$



DATE	12/12
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CHECKED:	AA
PROJ. ENG.:	AA

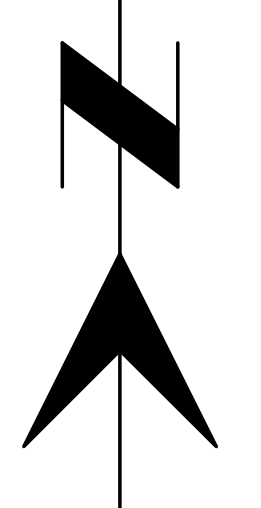
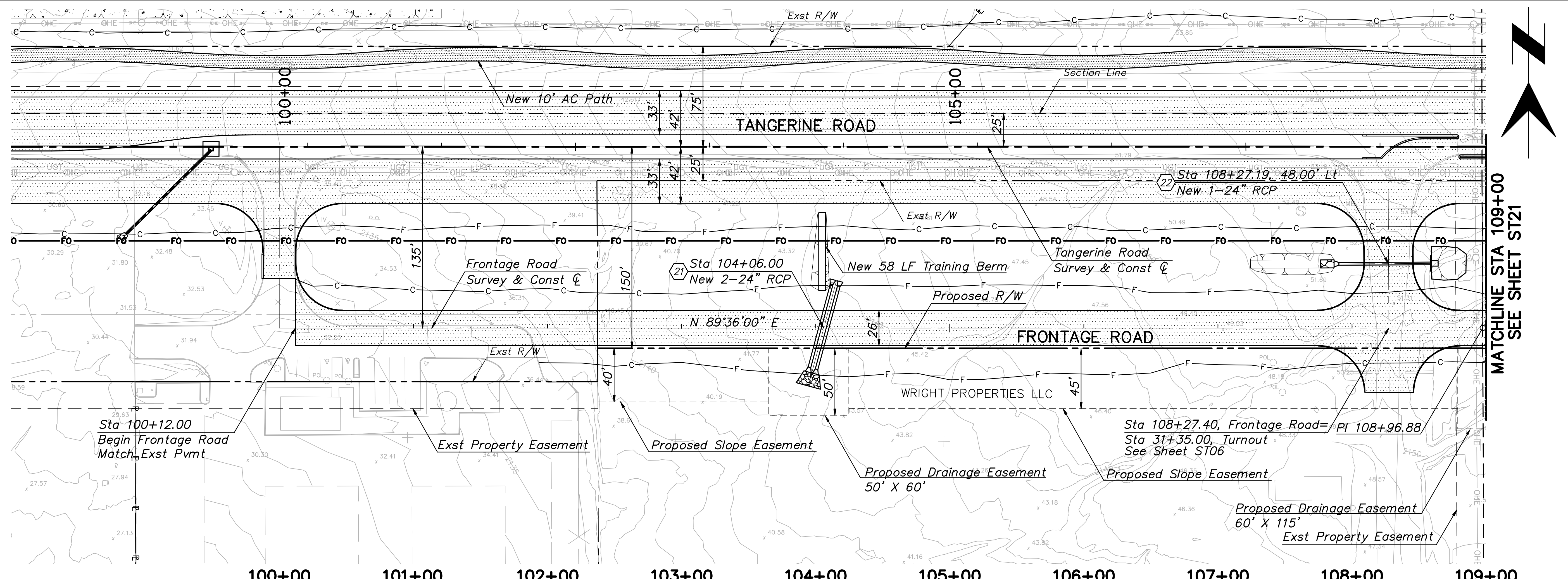
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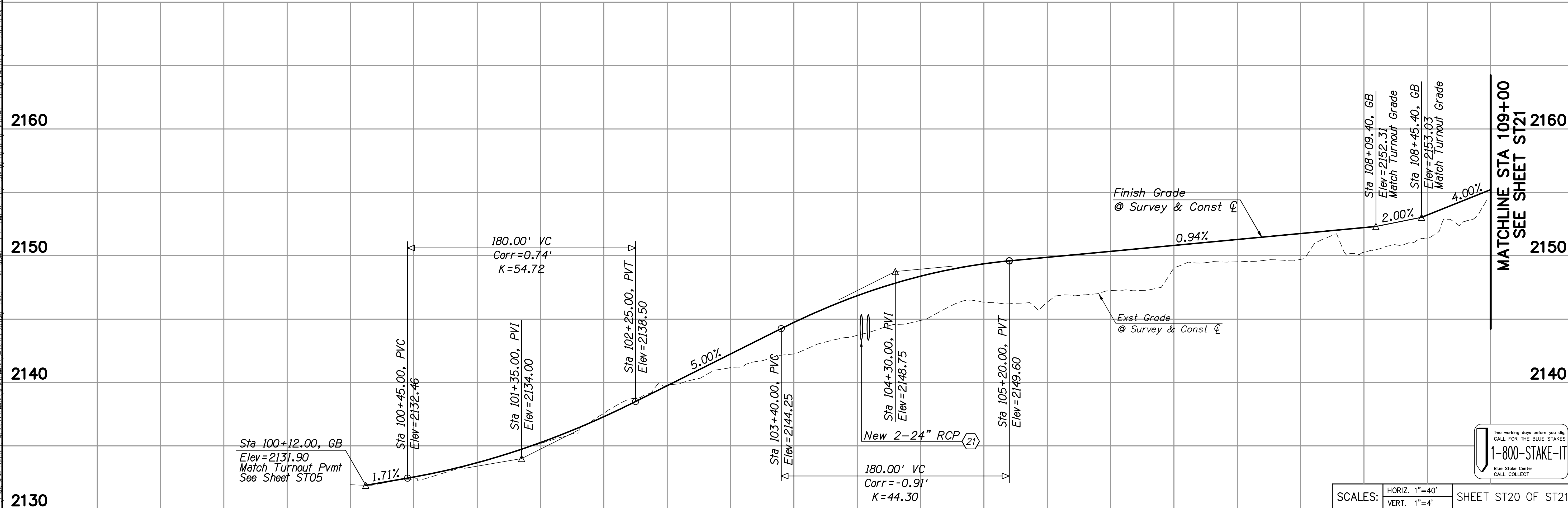
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 SIDESTREET PLAN AND PROFILE
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TANGERINE ROAD
 STA 770+00.00 TO STA 780+00.00
 TANGERINE ROAD

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MATCHLINE STA 109+00
SEE SHEET ST21

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00



MATCHLINE STA 109+00
SEE SHEET ST21

SCALES: HORIZ. 1"=40'
VERT. 1"=4'

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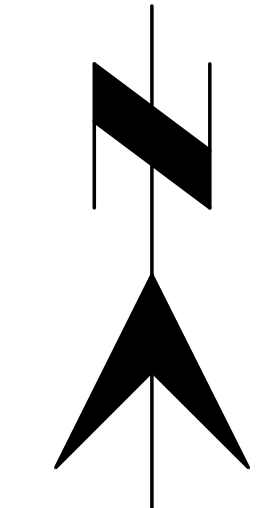
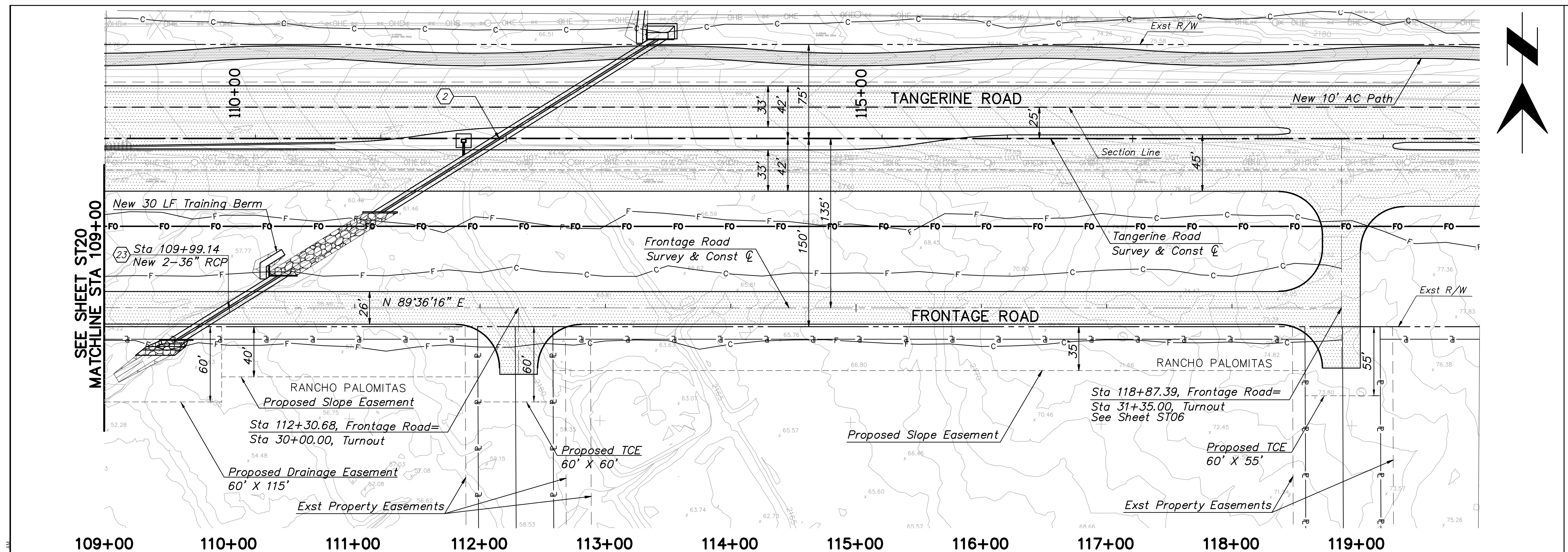
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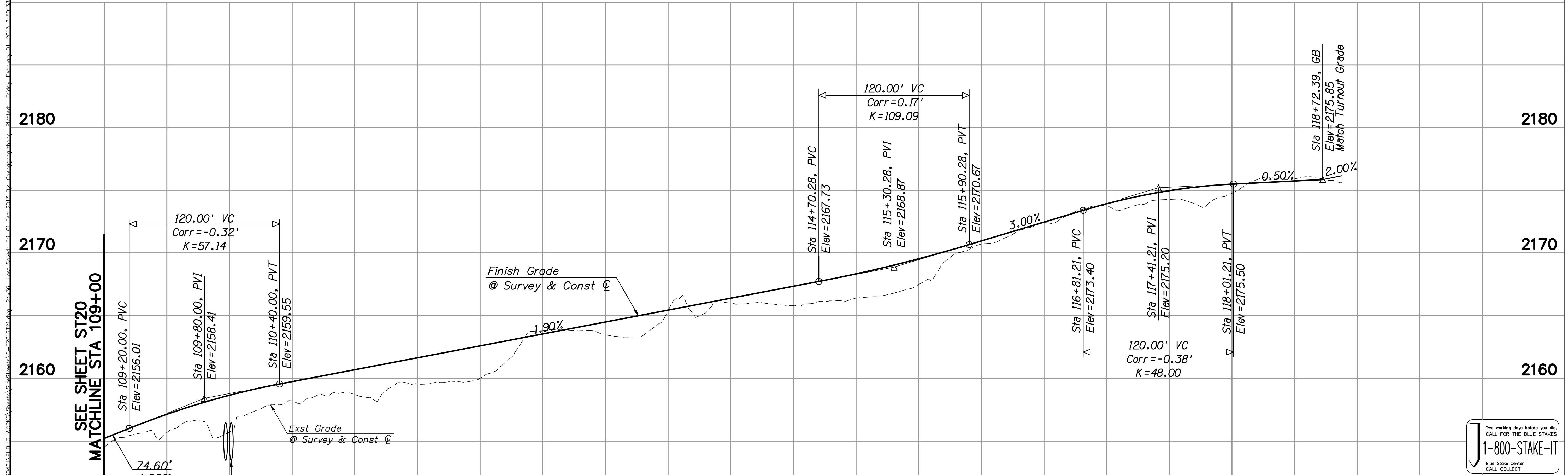
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SIDESTREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 100+00 TO STA 109+00
FRONTAGE ROAD



SEE SHEET ST20
MATCHLINE STA 109+00

SEE SHEET ST20
MATCHLINE STA 109+00

109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00



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SCALES: HORIZ. 1"=40'
VERT. 1"=4'
SHEET ST21 OF ST21

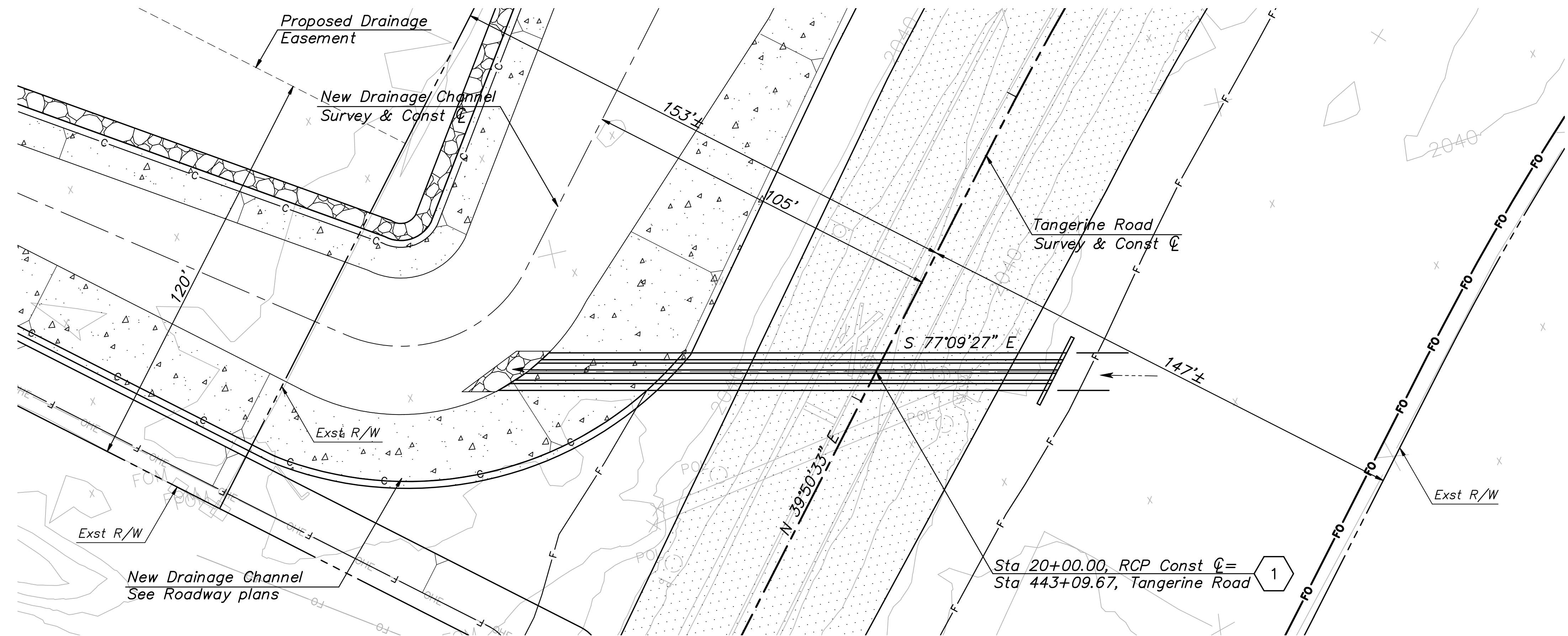
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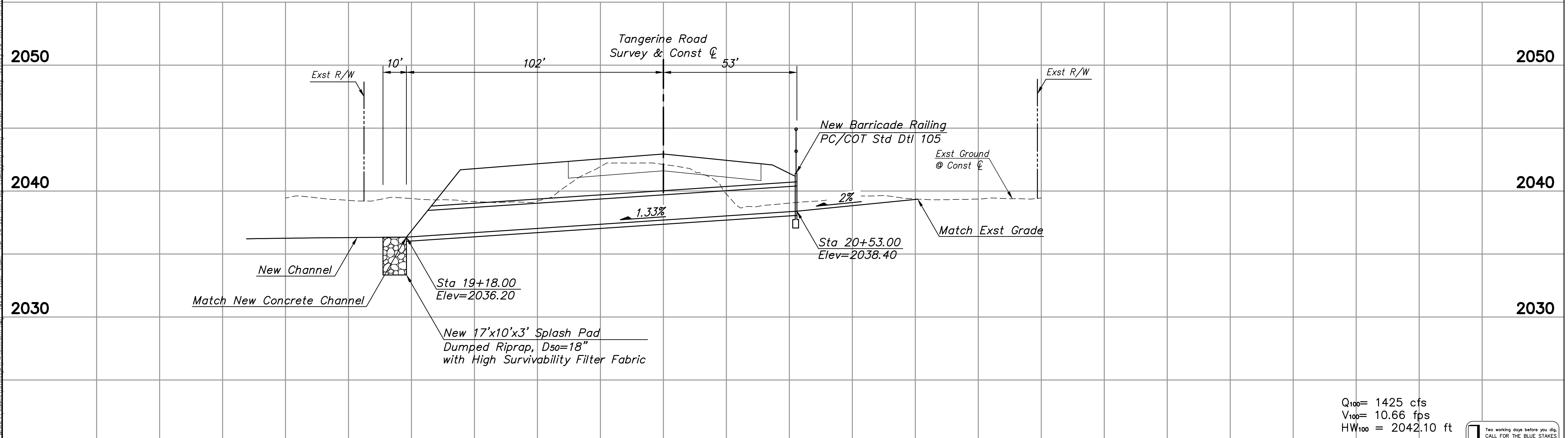
TOWN OF MARANA - PROJECT NO. 2005-061
SIDE STREET PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 109+00 TO STA 119+00
FRONTAGE ROAD



NOTES:

1. Inlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10, C-13.15, and C-13.76.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
4. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 443+09.67
New 4-24"x155' RCP
Skew 27' Rt

Q₁₀₀ = 1425 cfs
V₁₀₀ = 10.66 fps
HW₁₀₀ = 2042.10 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

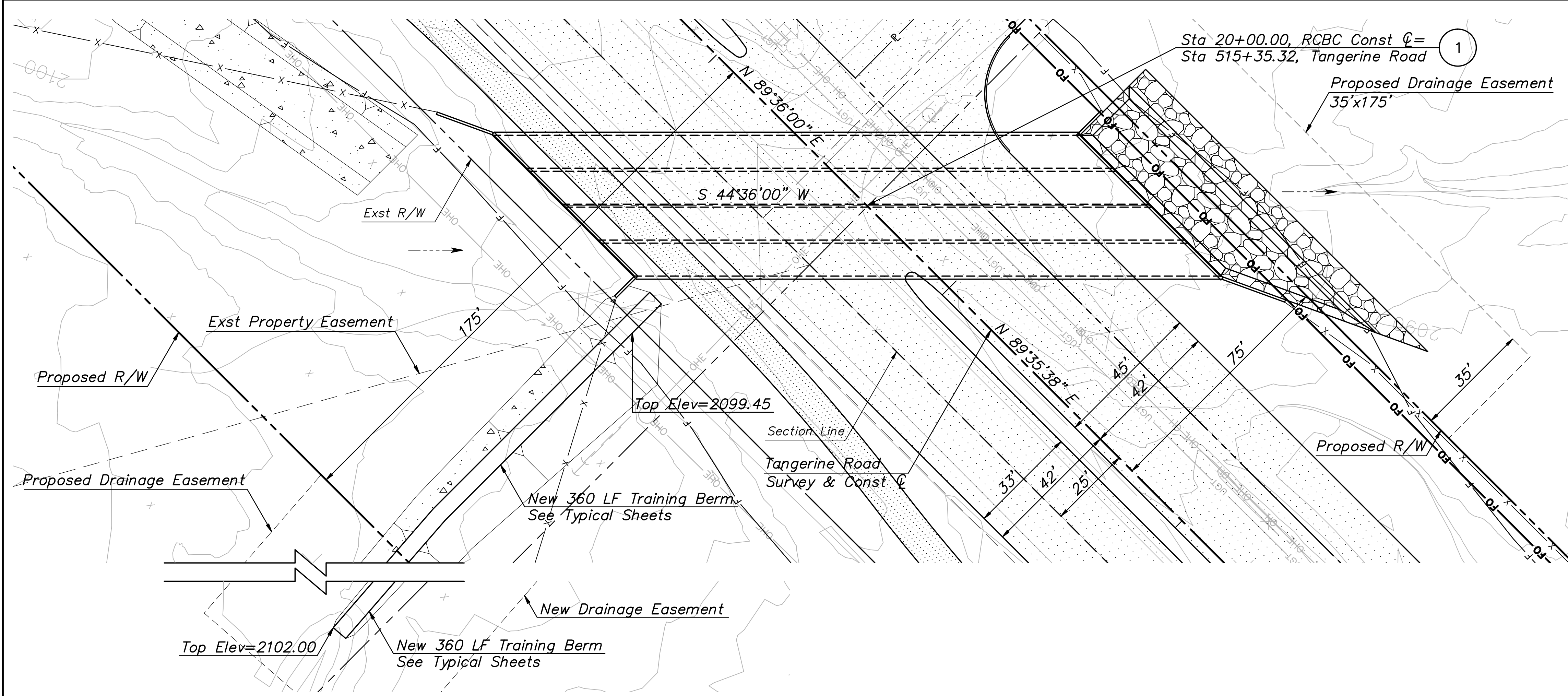
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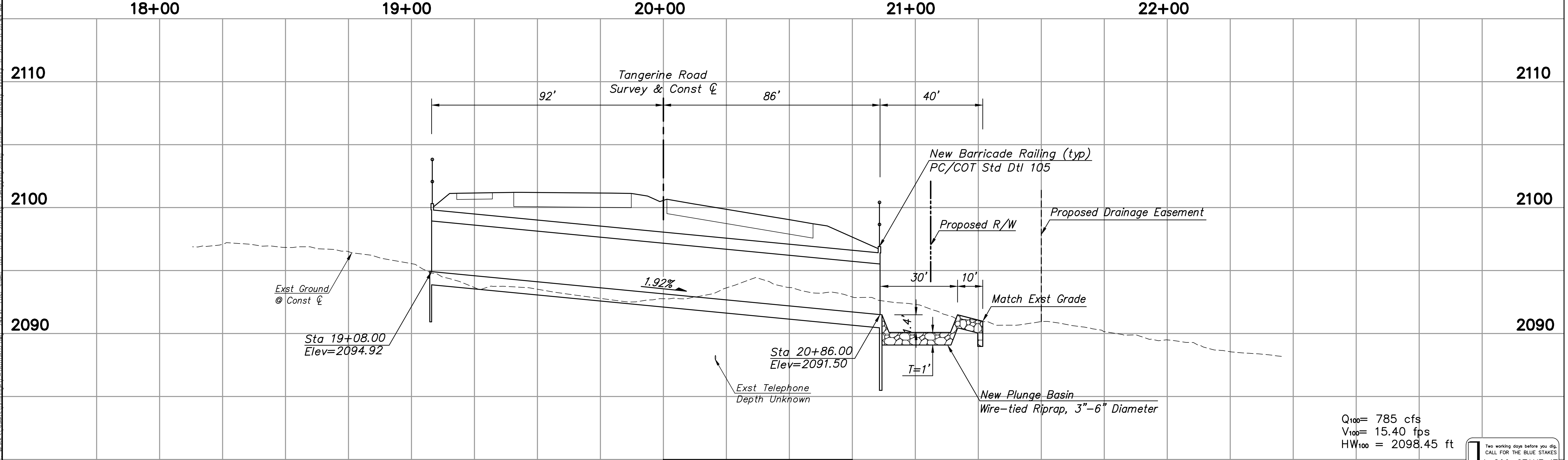
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 443+09.67
TANGERINE ROAD



- NOTES:
1. Inlet headwall & wingwall dimensions shall be based on 45° skew, 4:1 slopes, and ADOT Std Dwg B-04.70.
 2. Outlet headwall & wingwall dimensions shall be based on 45° skew, 6:1 slopes, and ADOT Std Dwg B-04.50.
 3. Boxes shall be constructed per ADOT Std Dwg B-02.40.
 4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Sta 515+35.32
New 4-10'x4'x178' RCBC
Skew 45° Rt

Q₁₀₀ = 785 cfs
V₁₀₀ = 15.40 fps
HW₁₀₀ = 2098.45 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

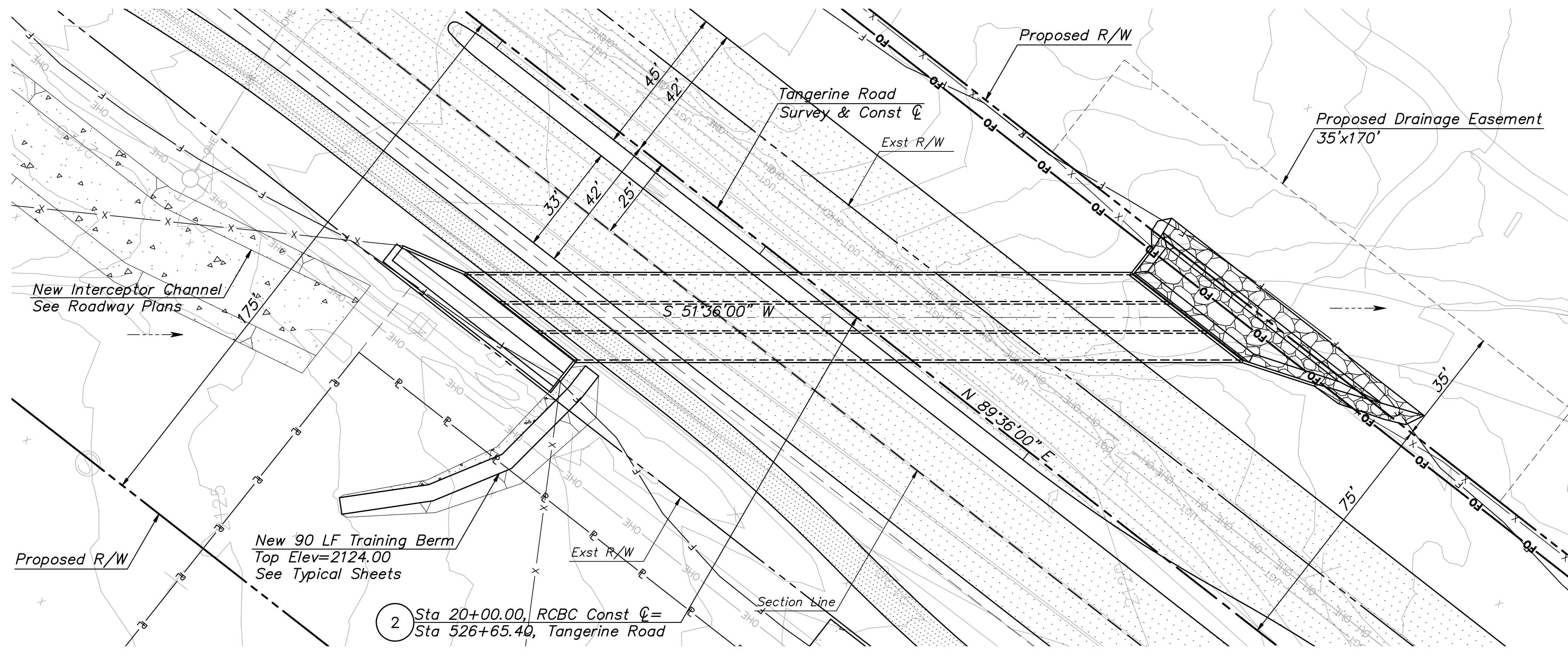
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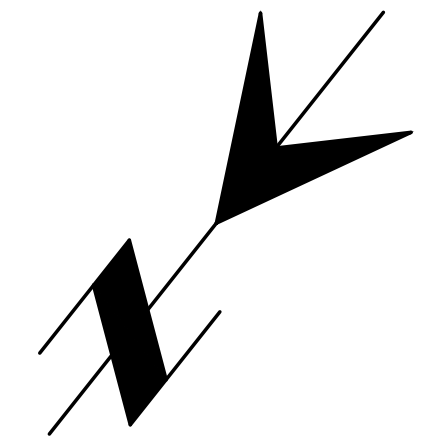
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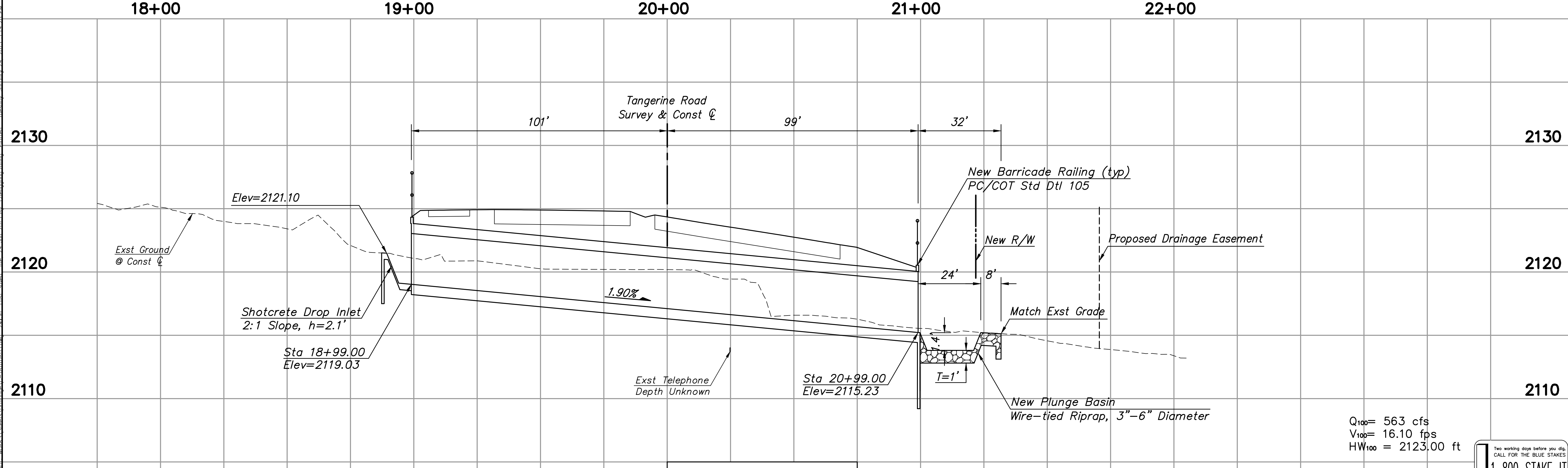
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DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 515+35.32
TANGERINE ROAD



- NOTES:
1. Inlet headwall & wingwall dimensions shall be based on 45° skew, 4:1 slopes, and ADOT Std Dwg B-04.70.
 2. Outlet headwall & wingwall dimensions shall be based on 45° skew, 6:1 slopes, and ADOT Std Dwg B-04.50.
 3. Boxes shall be constructed per ADOT Std Dwg B-02.30.
 4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



2 Sta 20+00.00, RCBC Const CL=
Sta 526+65.40, Tangerine Road



Sta 526+65.40
New 3'-8"x4"x200' RCBC
Skew 52° Rt

Q₁₀₀ = 563 cfs
V₁₀₀ = 16.10 fps
HW₁₀₀ = 2123.00 ft

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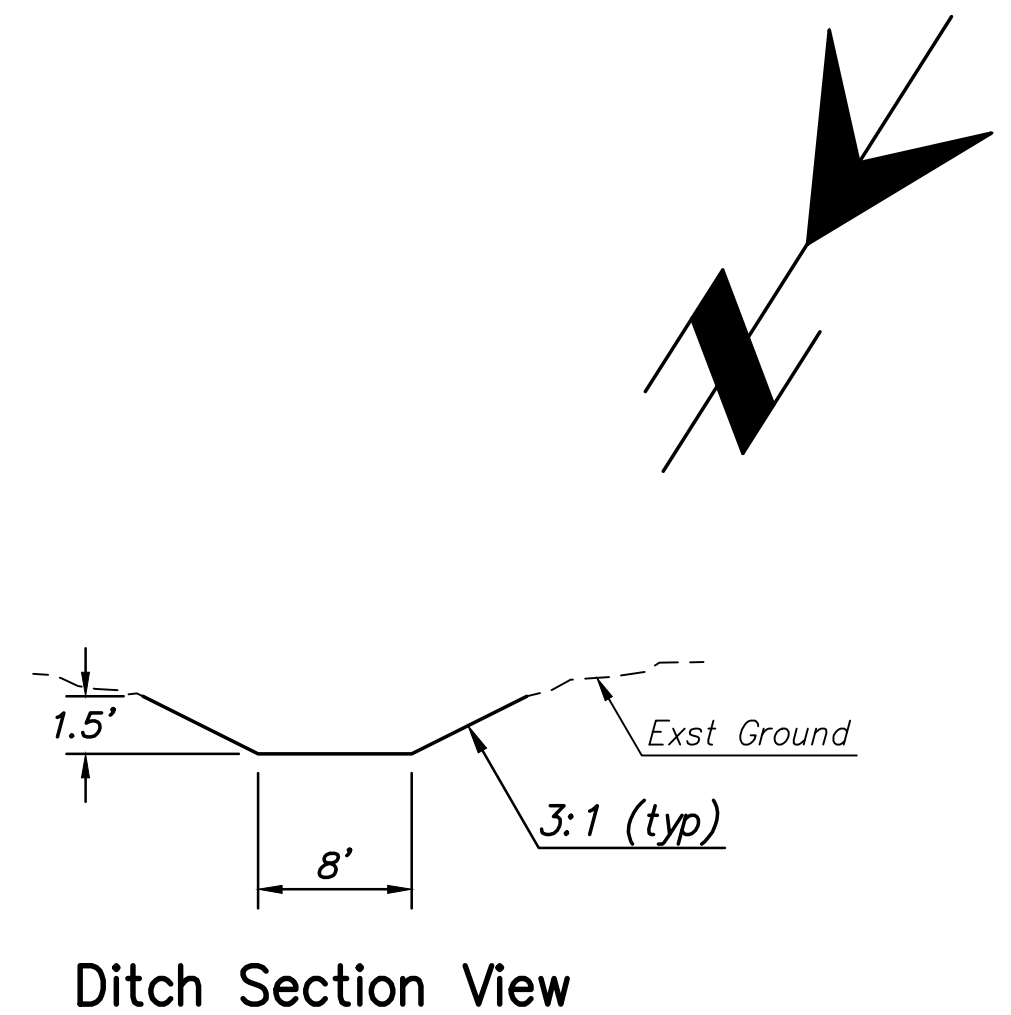
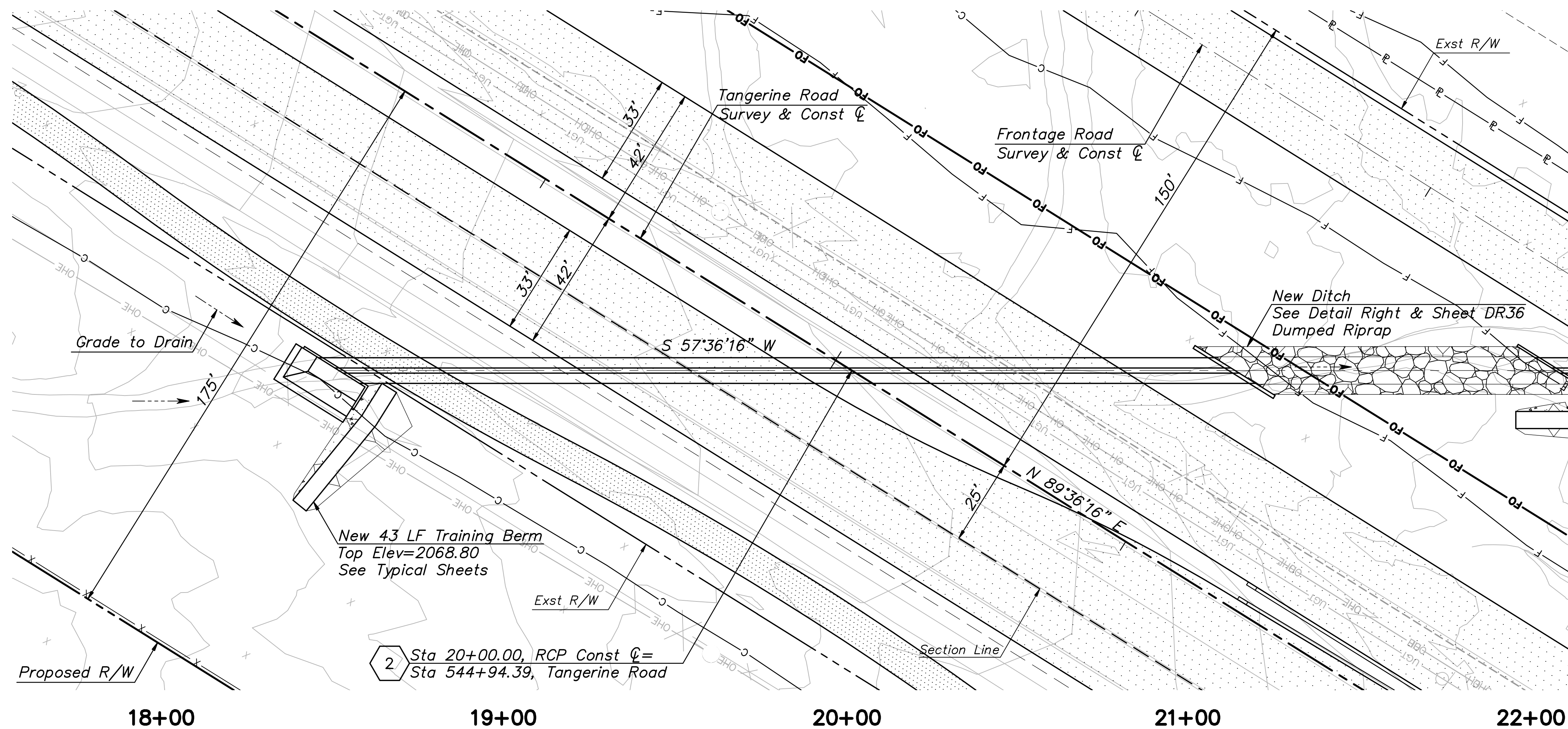
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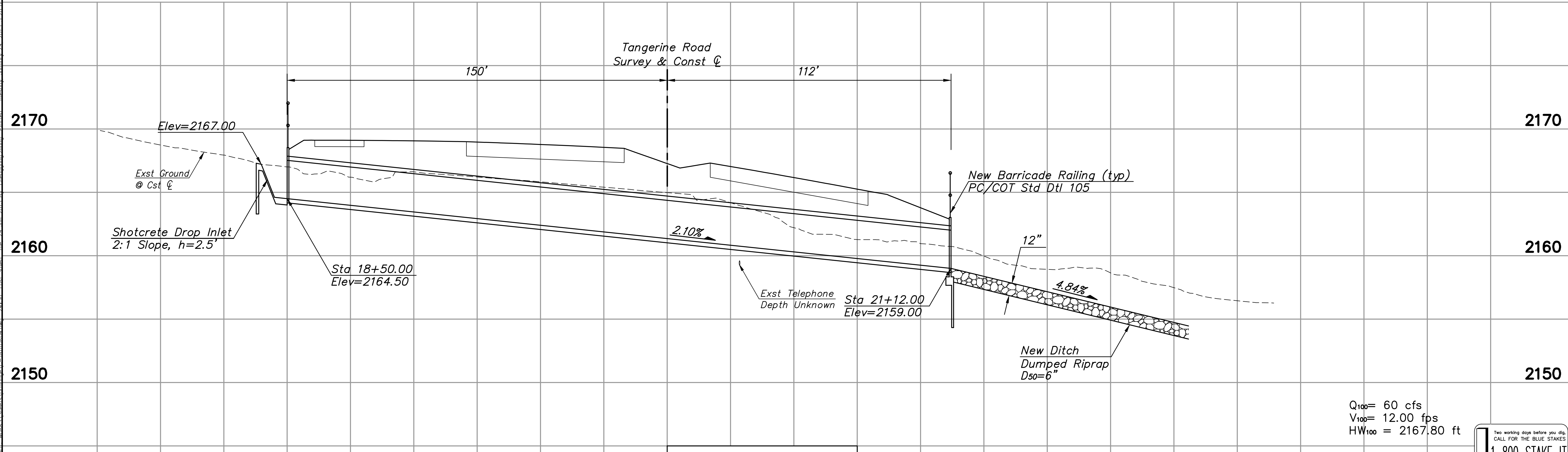
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TOWN OF MARANA - PROJECT NO. 2005-061

DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 526+65.40
TANGERINE ROAD



- NOTES:
- Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
 - Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
 - Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 3:1 slopes.
 - Barricade railing shall be placed on headwalls as shown on the profile.



Sta 544+94.39
New 2-36"x262' RCP
Skew 58° Rt

Q₁₀₀ = 60 cfs
V₁₀₀ = 12.00 fps
HW₁₀₀ = 2167.80 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

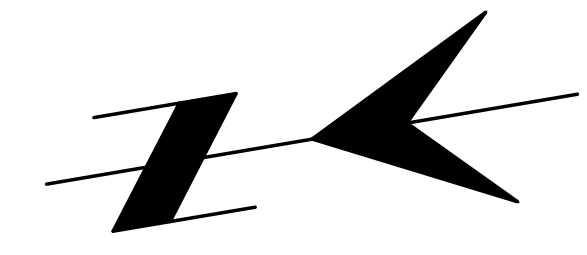
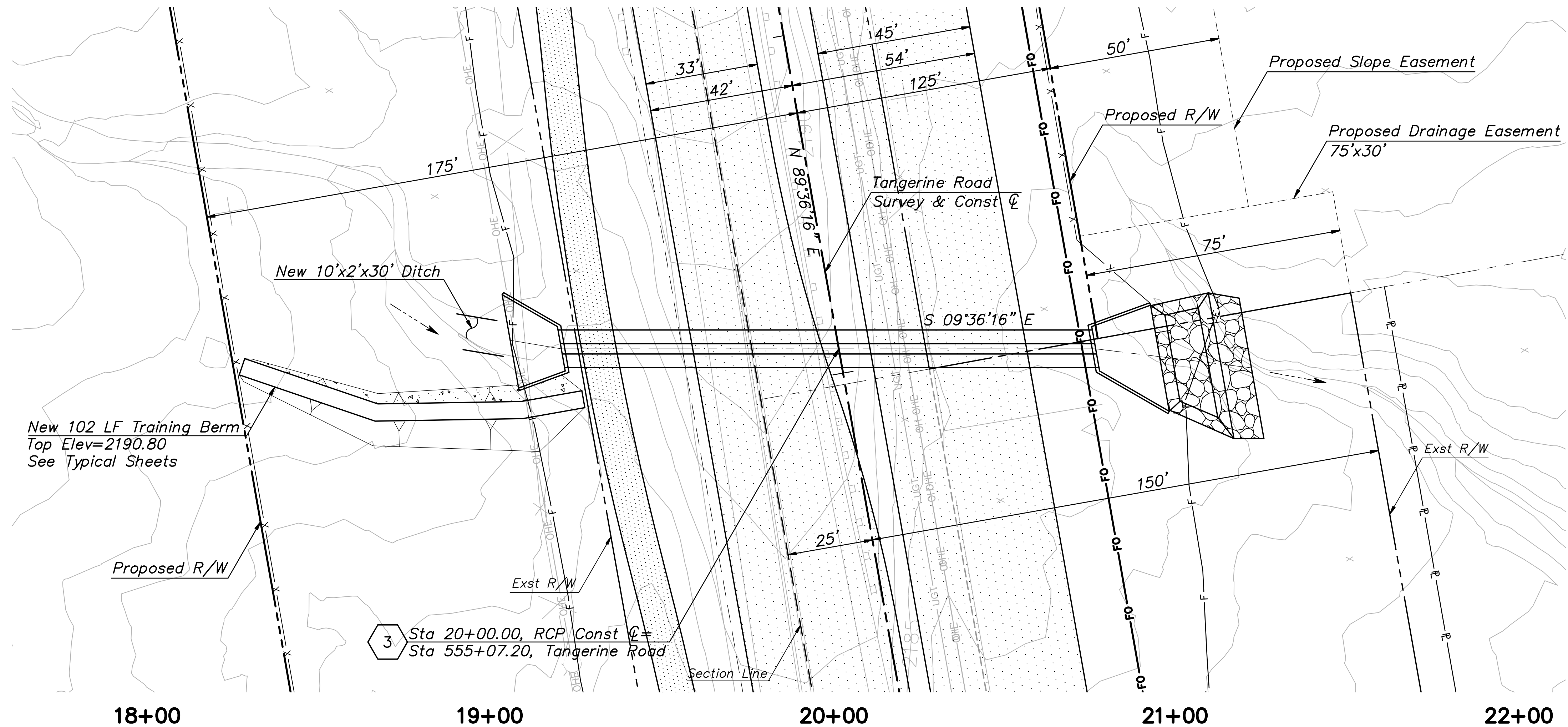
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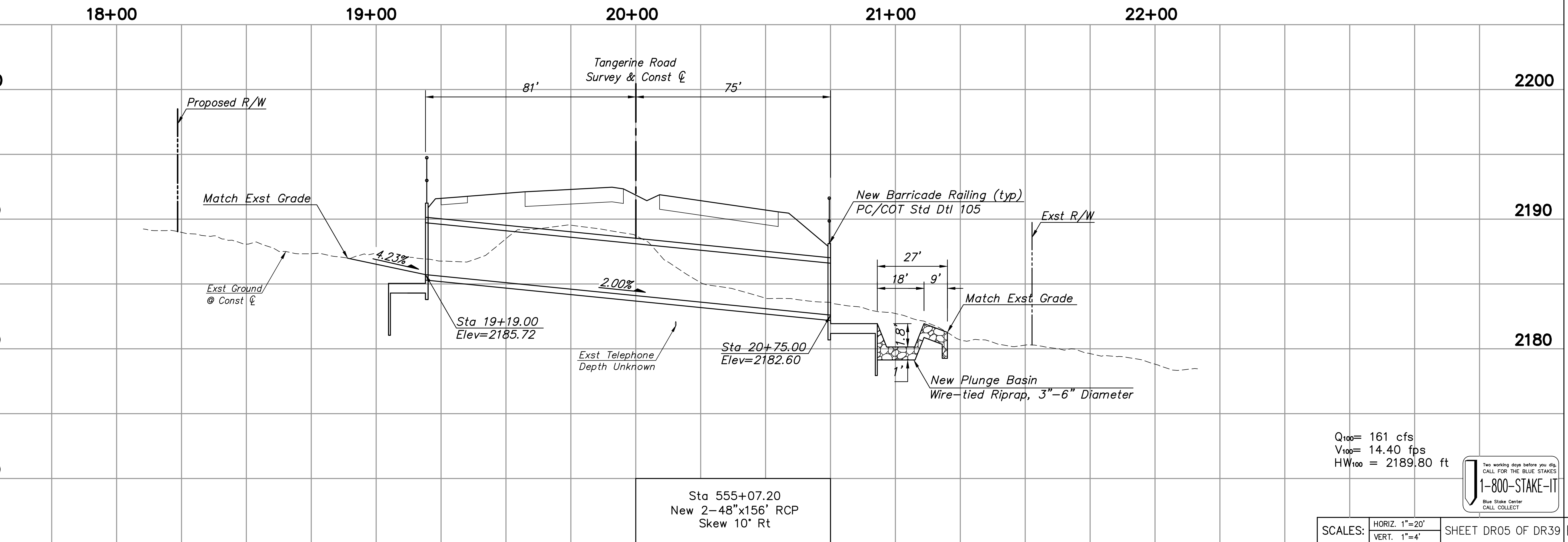
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 544+94.39
TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13 and 4:1 slopes.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13 and 6:1 slopes.
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
5. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Q₁₀₀ = 161 cfs
 V₁₀₀ = 14.40 fps
 HW₁₀₀ = 2189.80 ft



Sta 555+07.20
 New 2-48"x156' RCP
 Skew 10' Rt

SCALES: HORIZ. 1"=20'
 VERT. 1"=4'

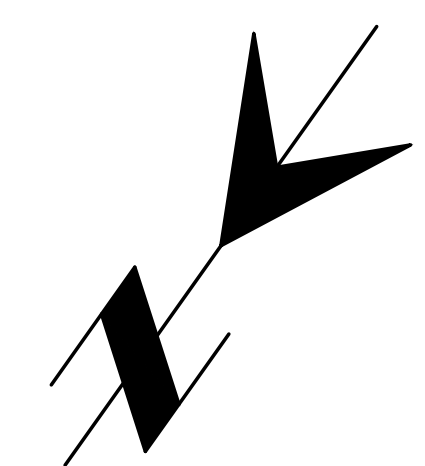
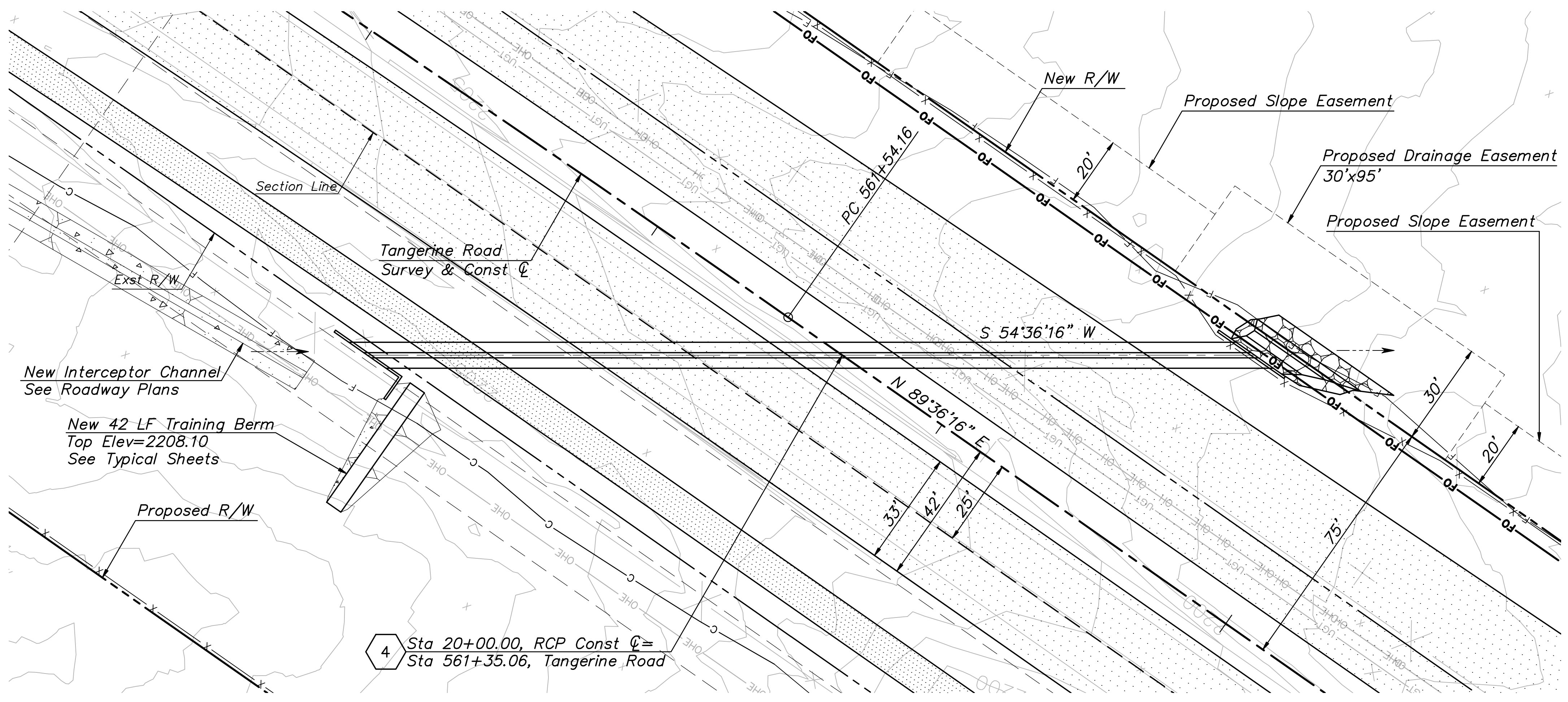
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 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 555+07.20
 TANGERINE ROAD

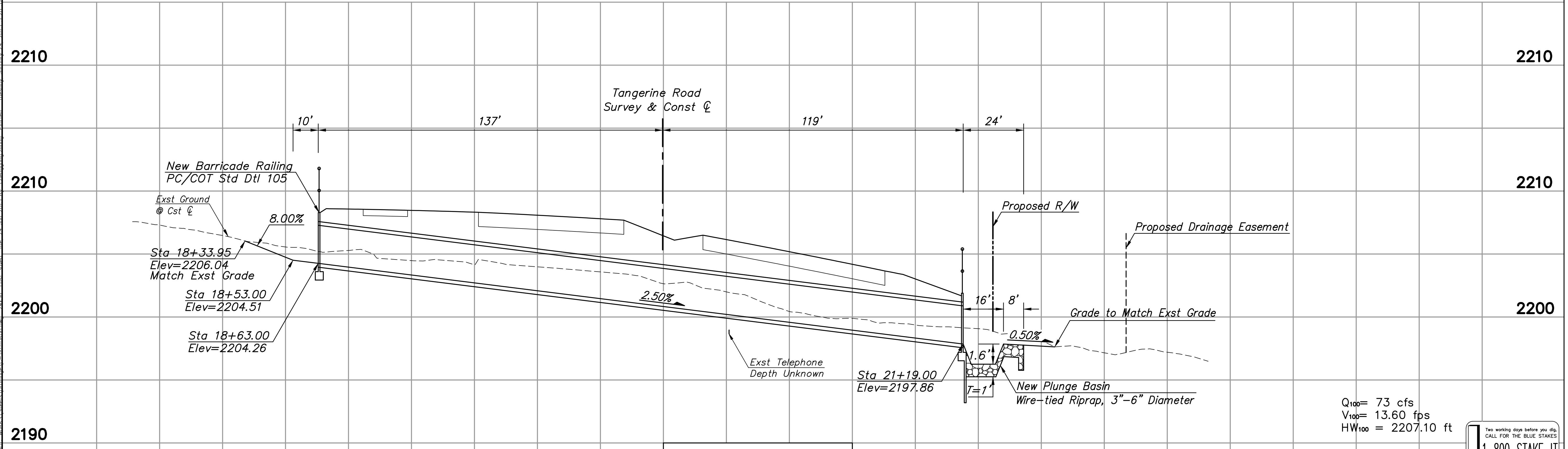


NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

4 Sta 20+00.00, RCP Const C= Sta 561+35.06, Tangerine Road

18+00 19+00 20+00 21+00 22+00



Sta 561+35.06
New 2-36"x256' RCP
Skew 55° Rt

Q₁₀₀ = 73 cfs
V₁₀₀ = 13.60 fps
HW₁₀₀ = 2207.10 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

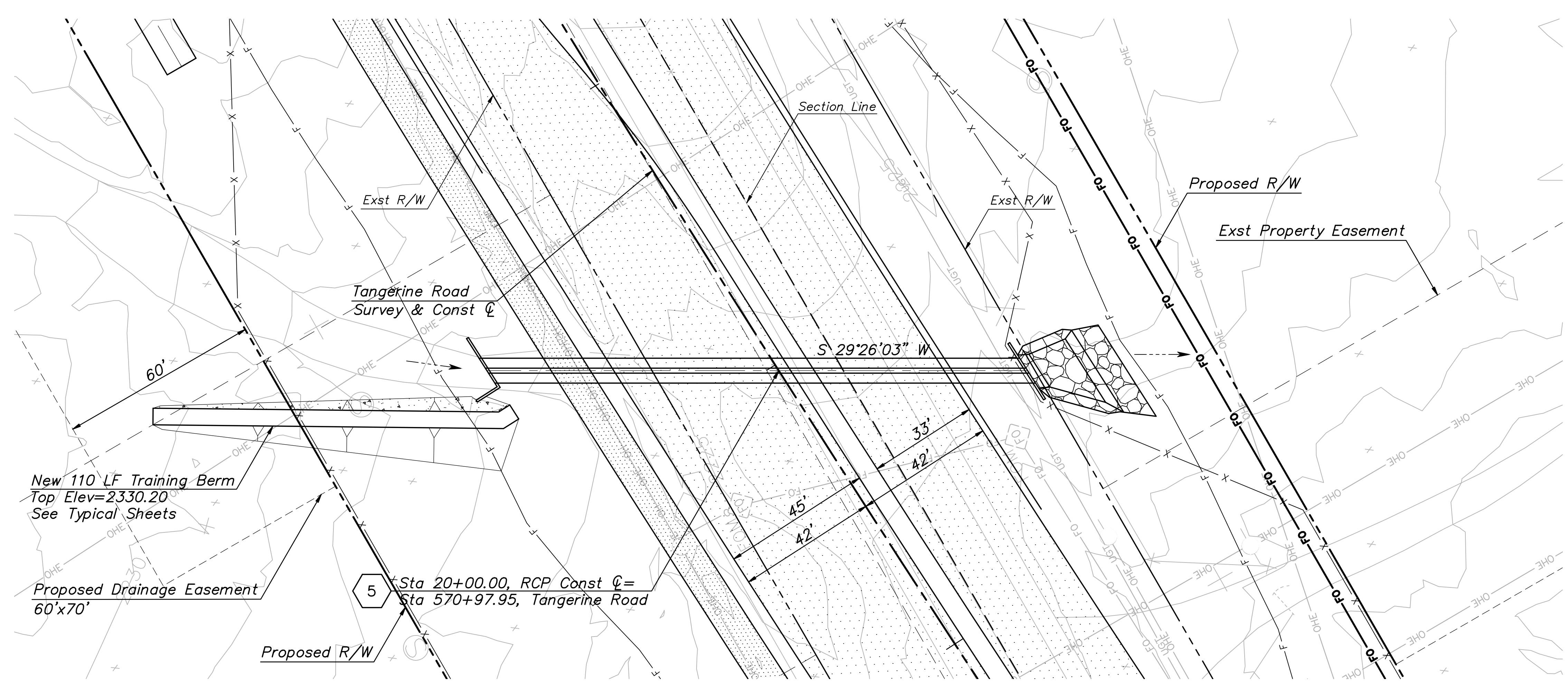
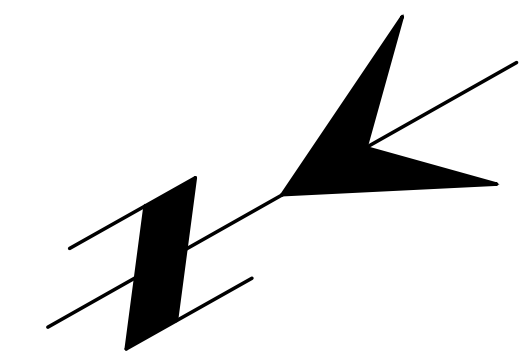
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DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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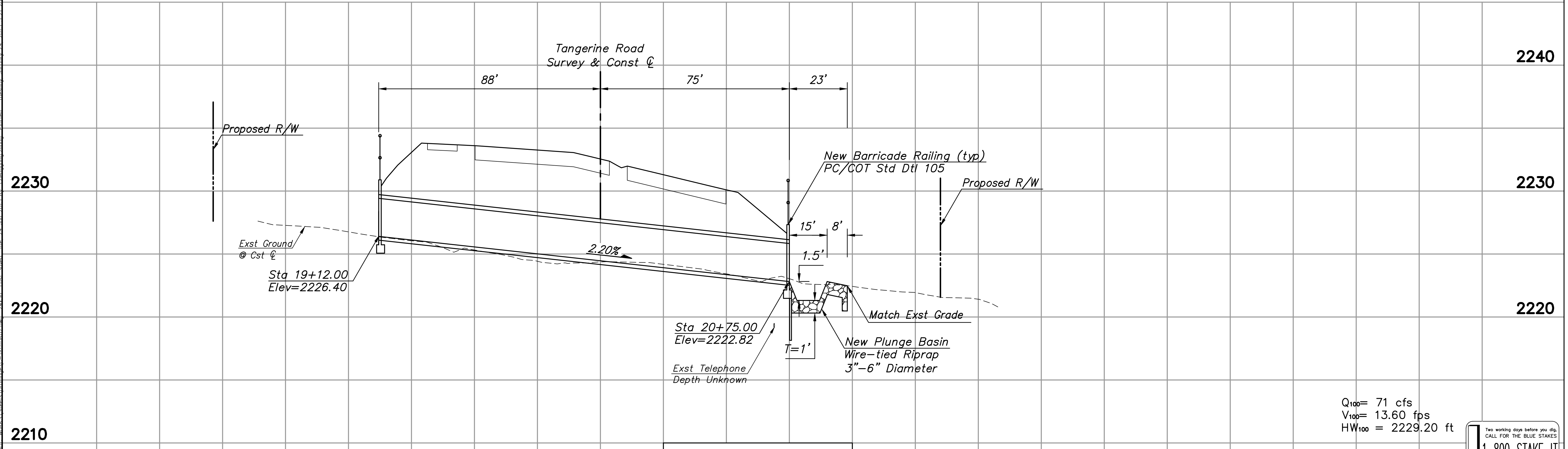
TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 561+35.06
TANGERINE ROAD



NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 570+97.95
New 2-36"x163' RCP
Skew 32' Rt

Q₁₀₀ = 71 cfs
V₁₀₀ = 13.60 fps
HW₁₀₀ = 2229.20 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

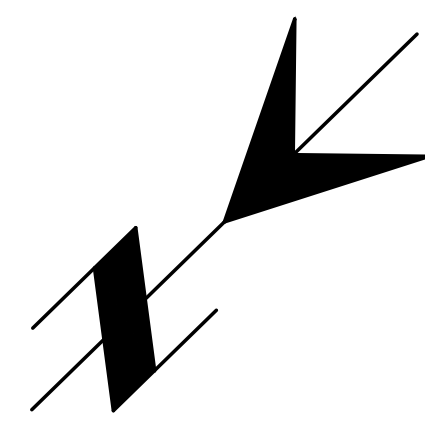
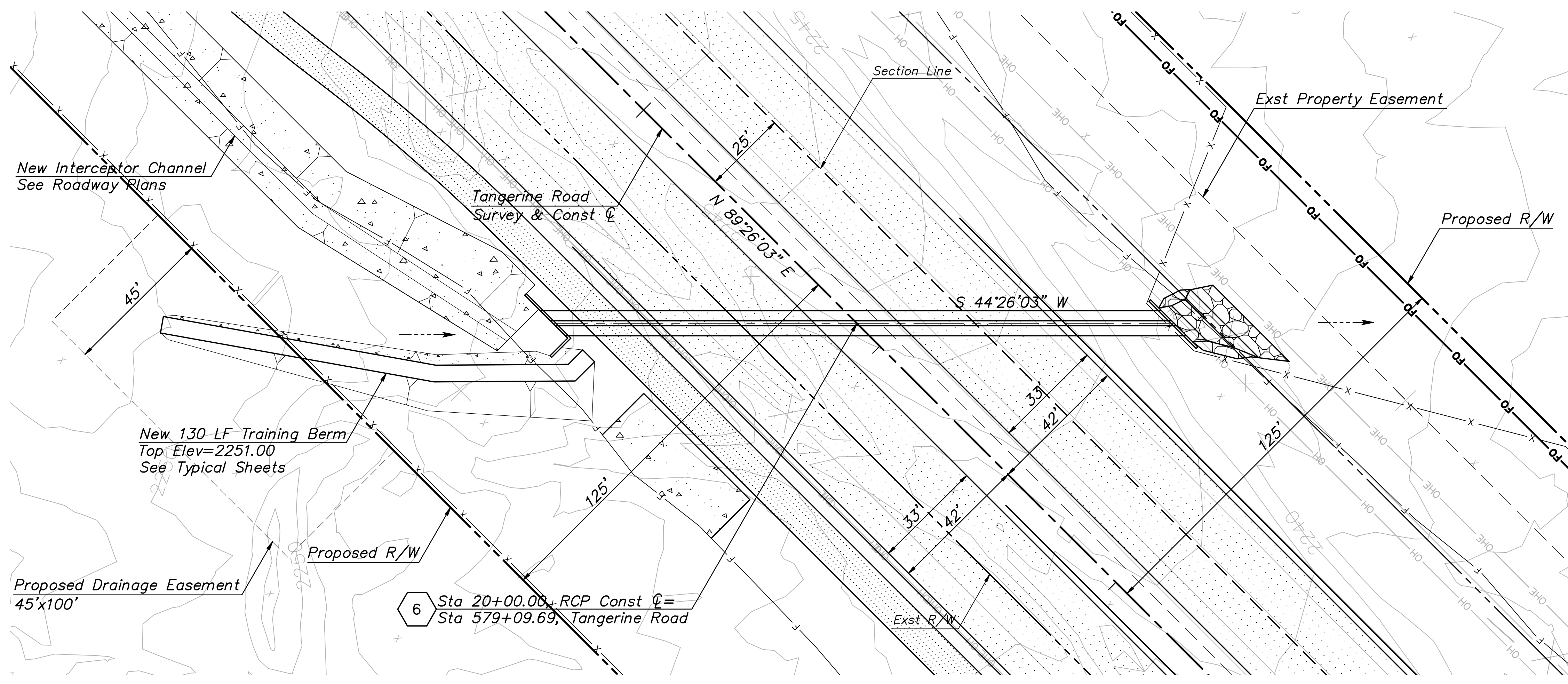
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DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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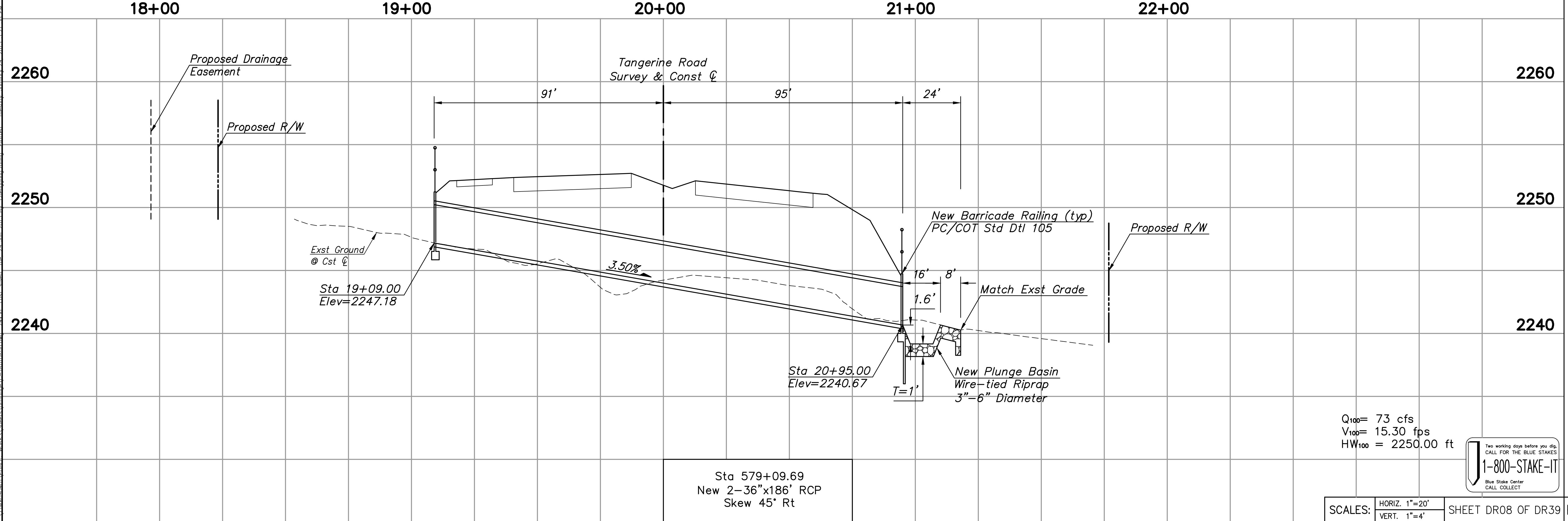
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 570+97.95
TANGERINE ROAD



NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls as shown on the profile.



$Q_{100} = 73 \text{ cfs}$
 $V_{100} = 15.30 \text{ fps}$
 $HW_{100} = 2250.00 \text{ ft}$



SCALES: HORIZ. 1"=20'
 VERT. 1"=4'
 SHEET DR08 OF DR39

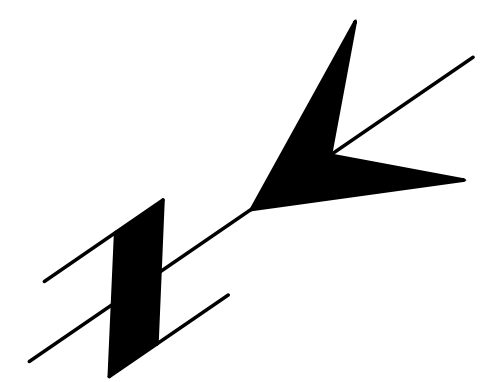
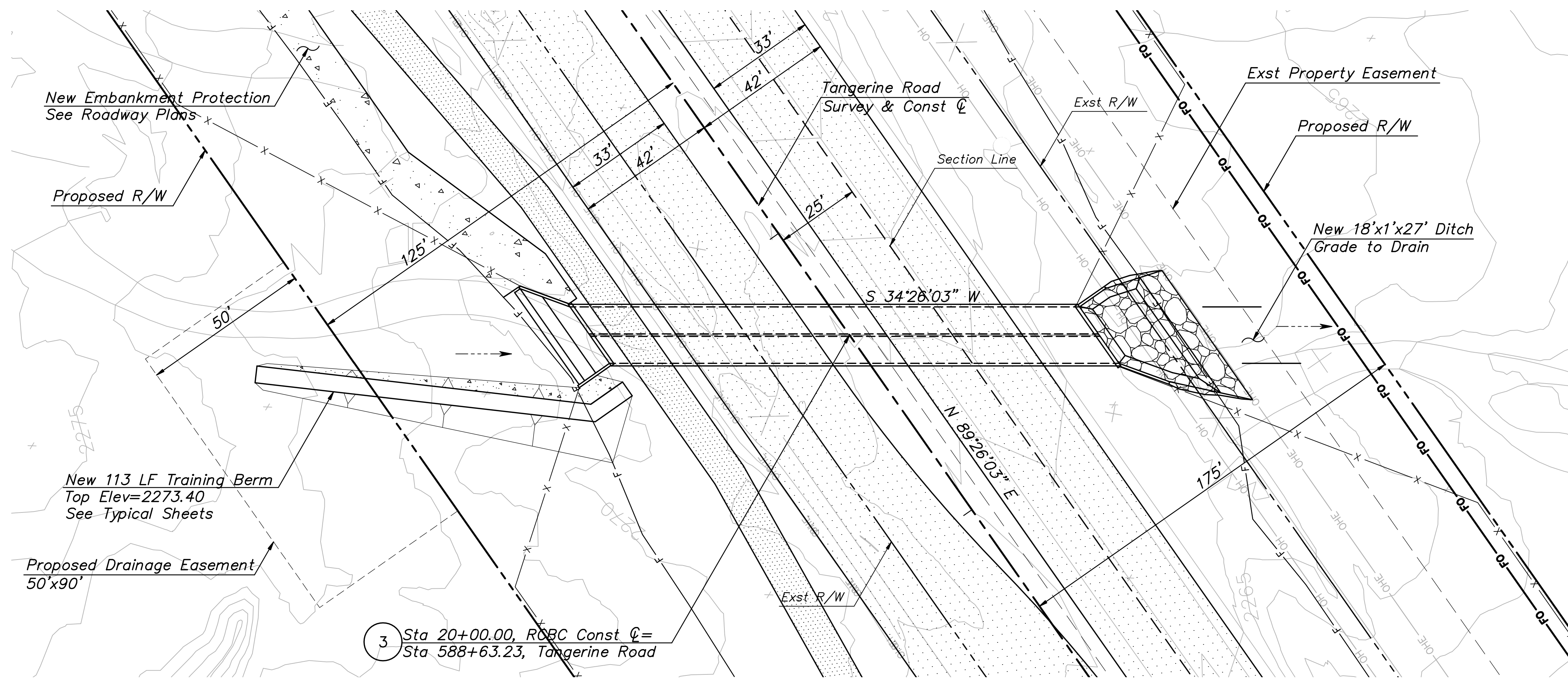
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DRAWN:	CZ	DATE:	12/12
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TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 579+09.69
 TANGERINE ROAD

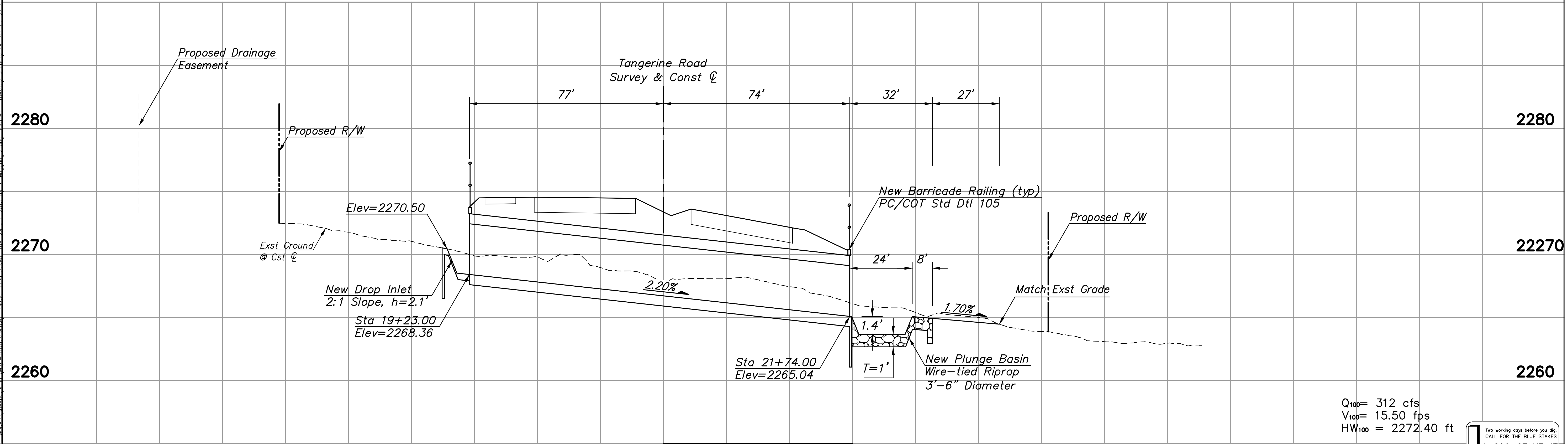


NOTES:

1. Inlet headwall & wingwall dimensions shall be based on 35° skew, 4:1 slopes, and ADOT Std Dwg B-04.70.
2. Outlet headwall & wingwall dimensions shall be based on 35° skew, 6:1 slopes, and ADOT Std Dwg B-04.50.
3. Boxes shall be constructed per ADOT Std Dwg B-02.30.
4. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
5. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

3 Sta 20+00.00, RCBC Const ϕ =
Sta 588+63.23, Tangerine Road

18+00 19+00 20+00 21+00 22+00



Sta 588+63.23
New 2-8'x4'x151' RCBC
Skew 35° Rt

Q₁₀₀ = 312 cfs
V₁₀₀ = 15.50 fps
HW₁₀₀ = 2272.40 ft



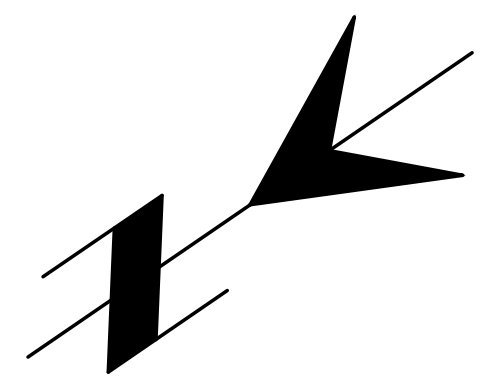
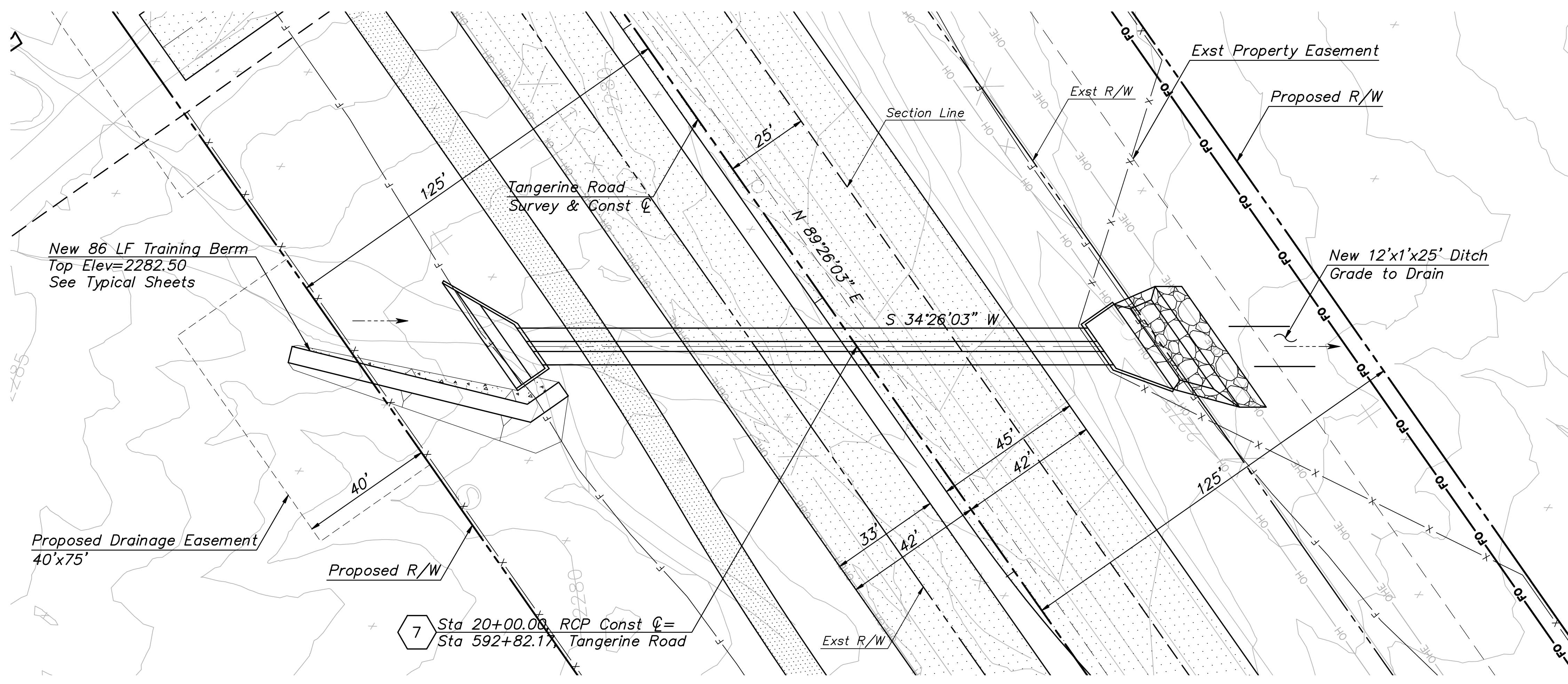
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DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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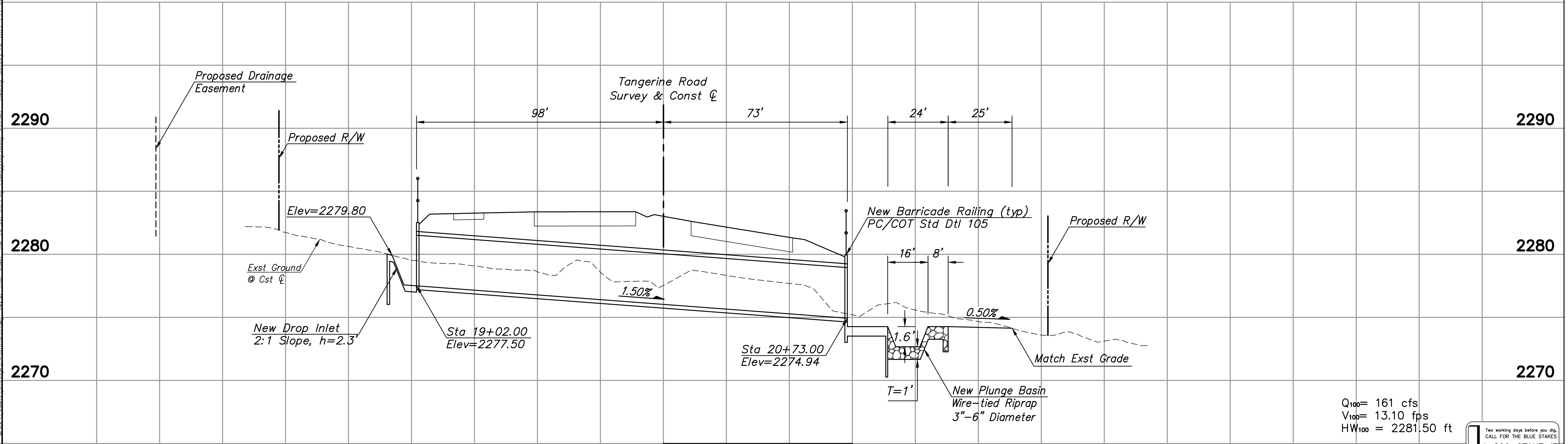
TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 588+63.23
TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13 with 4:1 slopes.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13 with 6:1 slopes.
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 3:1 slopes.
5. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 592+82.17
New 2-48"x171' RCP
Skew 35° Rt

Q₁₀₀ = 161 cfs
V₁₀₀ = 13.10 fps
HW₁₀₀ = 2281.50 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJECT ENG.:	AA		

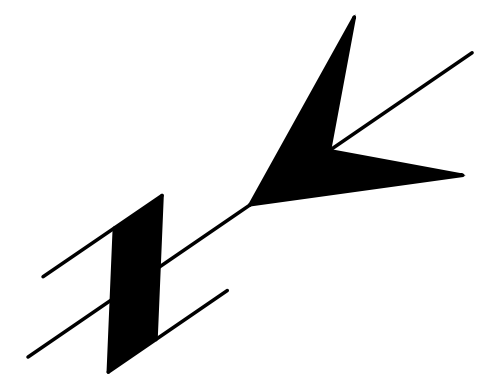
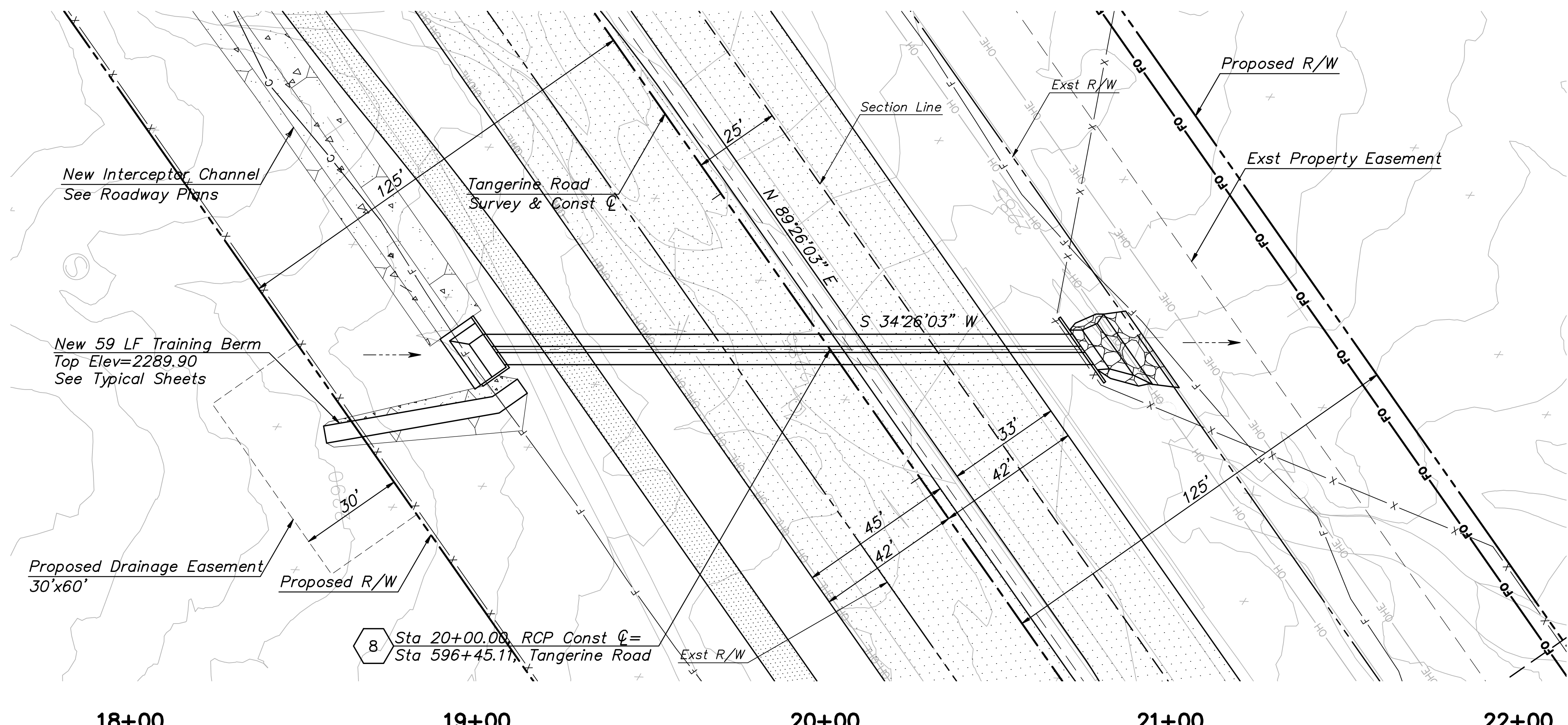
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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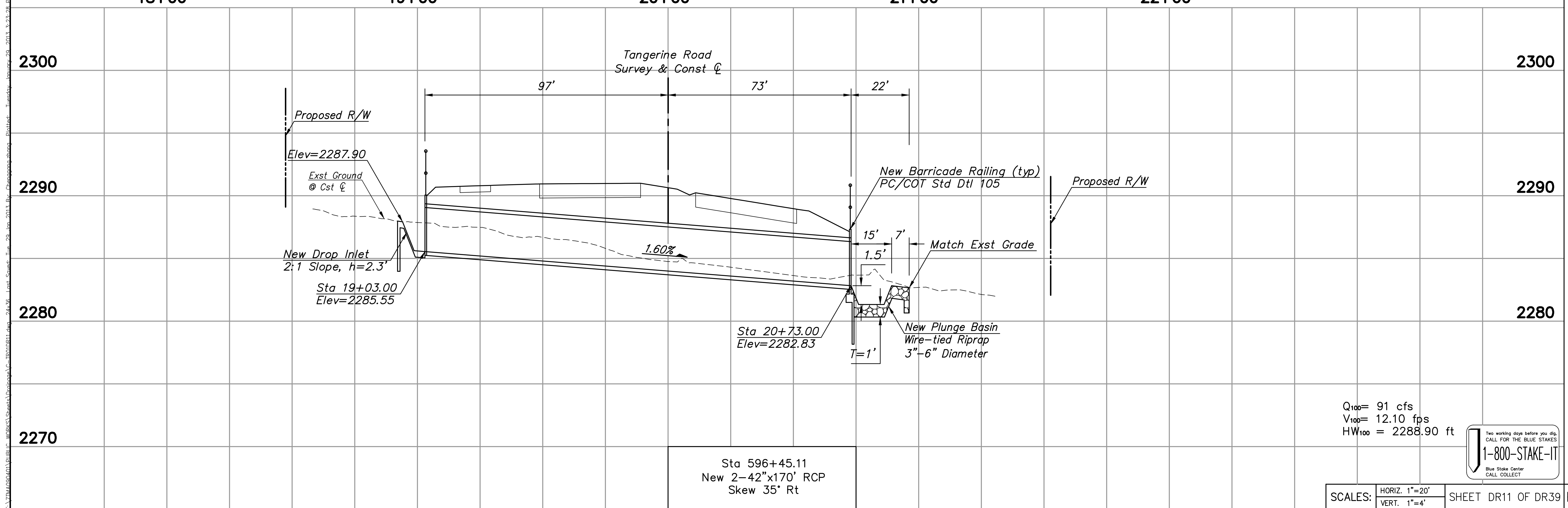
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 592+82.17
TANGERINE ROAD

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- NOTES:**
- Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
 - Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
 - Barricade railing shall be placed on headwalls as shown on the profile.



$Q_{100} = 91$ cfs
 $V_{100} = 12.10$ fps
 $HW_{100} = 2288.90$ ft

Sta 596+45.11
New 2-42"x170' RCP
Skew 35° Rt

Two working days before you dig,
 CALL FOR THE BLUE STAKES!
 1-800-STAKE-IT
 Blue Stake Center
 CALL COLLECT

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DRAWN:		CZ		DATE		12/12	
CHECKED:		AA		DATE		12/12	
PROJ. ENG.:		AA		DATE		12/12	

NO.	REVISION DESCRIPTION	DATE	DIV. ENGINEER

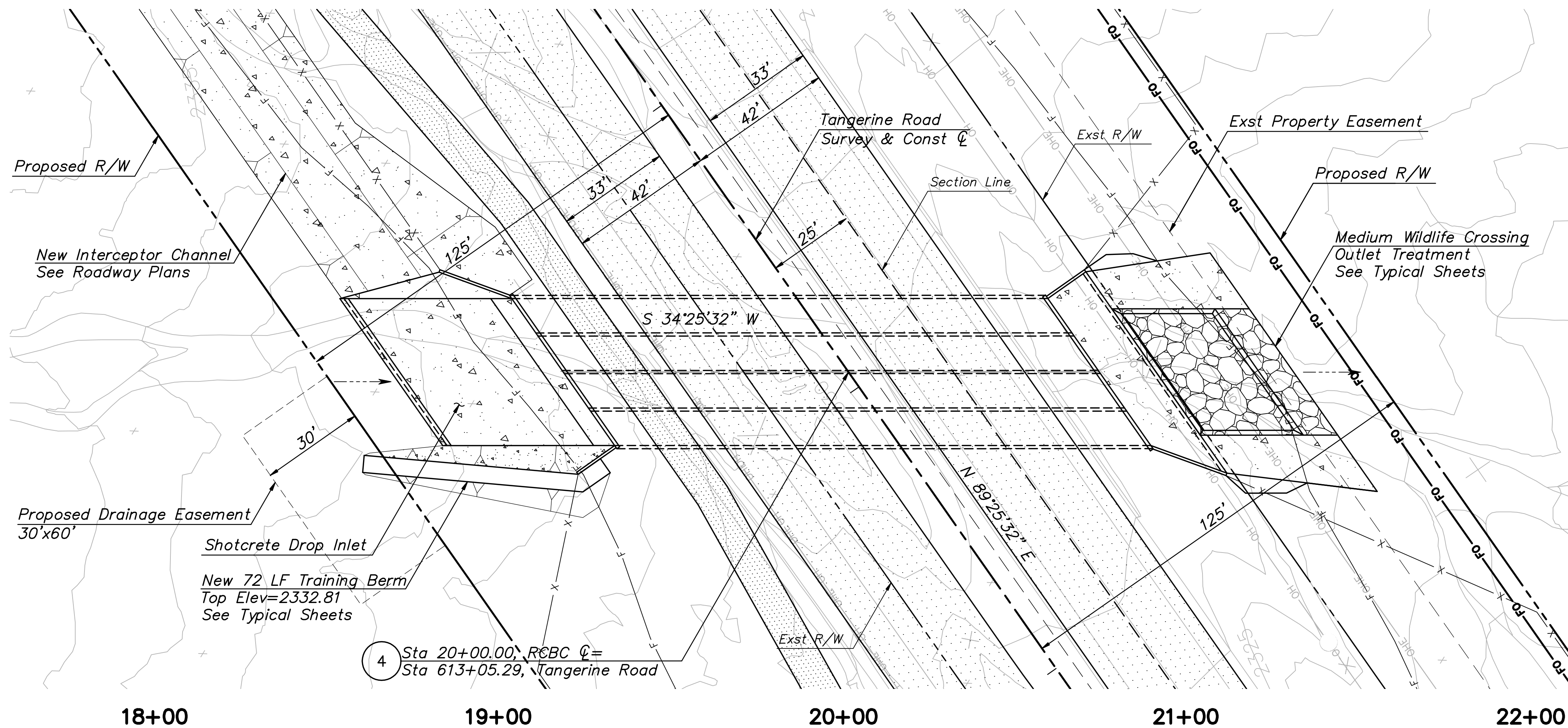
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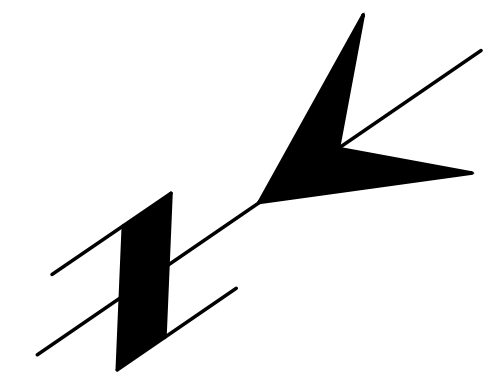
DRAINAGE PLAN AND PROFILE FOR
TANGERINE ROAD
 STA 596+45.11
 TANGERINE ROAD

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 Tucson, AZ 85705
 (520) 292-2200 (520) 292-1290 fax
 www.psomas.com

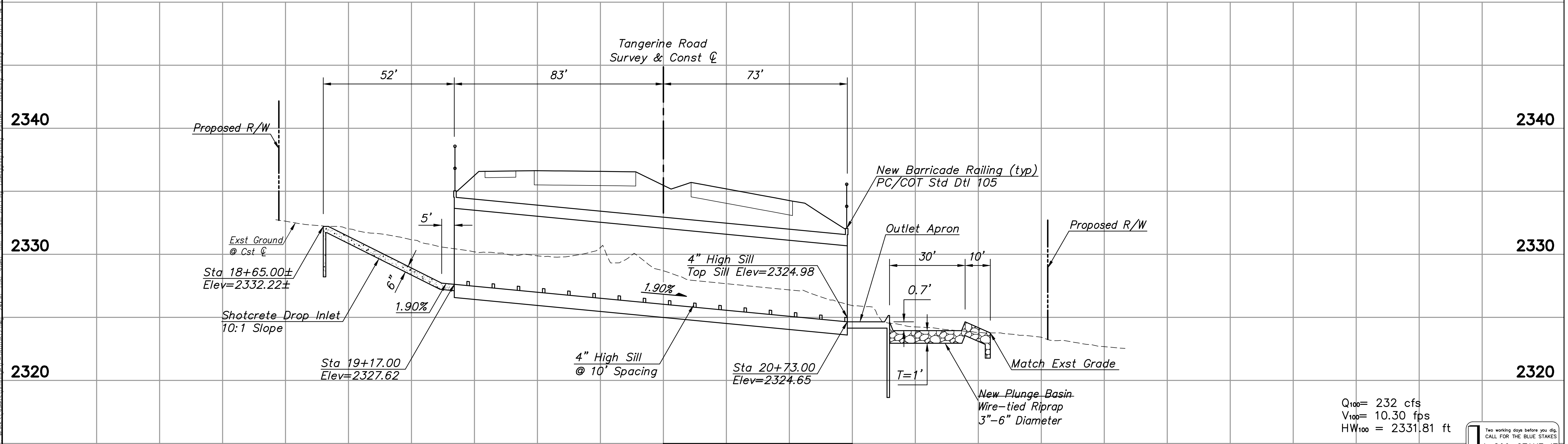
TOWN OF MARANA - PROJECT NO. 2005-061



- NOTES:
- Inlet headwall & wingwall dimensions shall be based on 30° skew, 4:1 slopes, and ADOT Std Dwg B-04.70.
 - Outlet headwall & wingwall dimensions shall be based on 30° skew, 6:1 slopes, and ADOT Std Dwg B-04.50.
 - Outlet apron dimensions shall be based on ADOT Std Dwg B-06.10, 30° skew and 6:1 slopes.
 - Boxes shall be constructed per ADOT Std Dwg B-02.40.
 - Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



18+00 19+00 20+00 21+00 22+00



Sta 613+05.29
New 4-10'x6'x156' RCBC
Skew 35° Rt

Q₁₀₀ = 232 cfs
V₁₀₀ = 10.30 fps
HW₁₀₀ = 2331.81 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

SHEET DR12 OF DR39

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	DATE:	12/12
CHECKED:	AA	DATE:	12/12
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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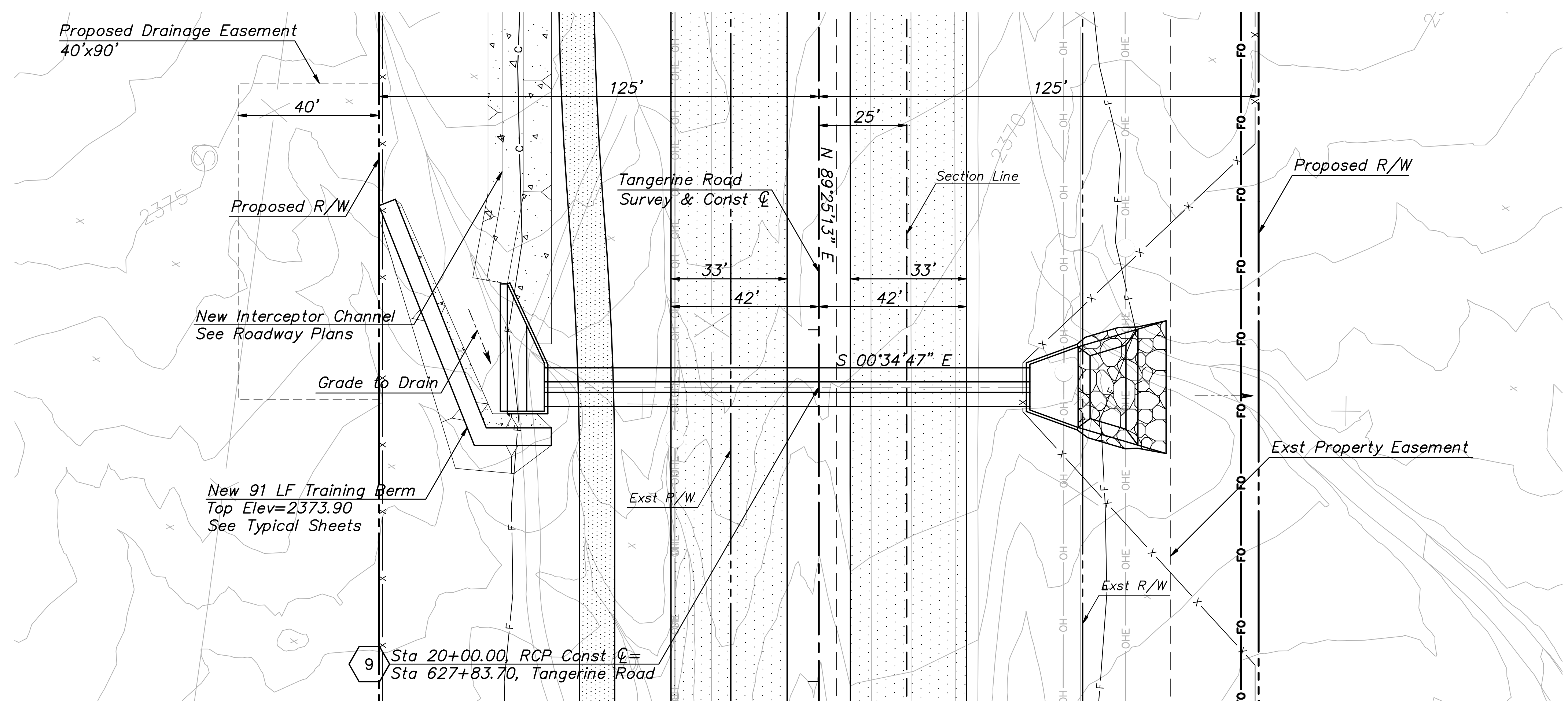
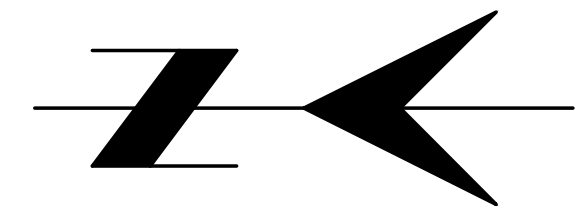
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TOWN OF MARANA - PROJECT NO. 2005-061

DRAINAGE PLAN AND PROFILE FOR TANGERINE ROAD STA 613+05.29 TANGERINE ROAD

PAGE 82 OF 143

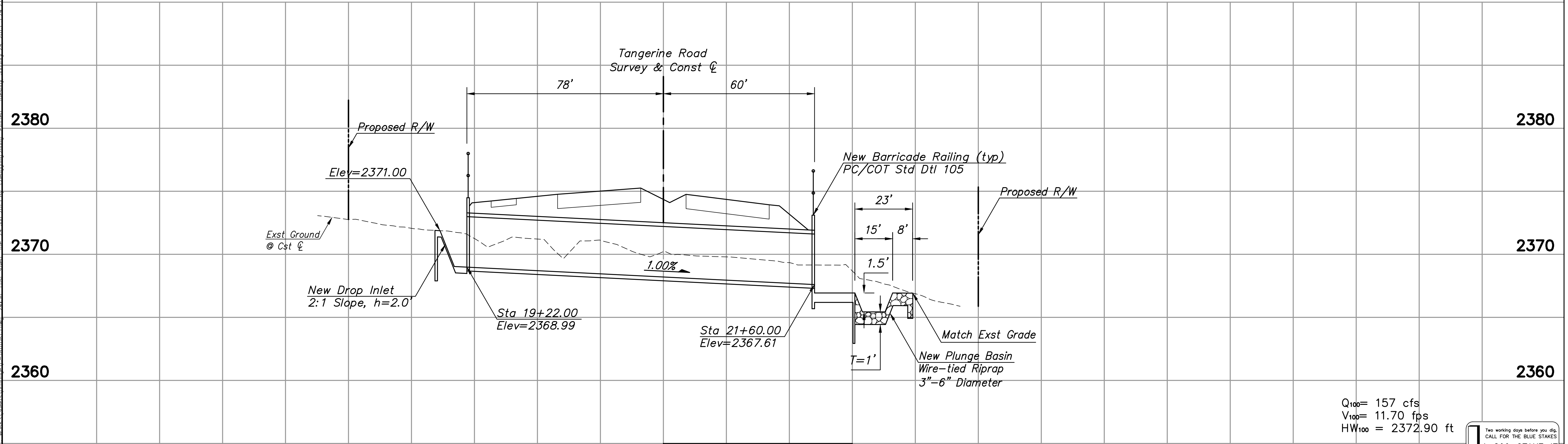
Proposed Drainage Easement
40'x90'



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13, 45° skew.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.12, 0° skew
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 627+83.70
New 2-48"x138' RCP
Skew 0°

Q₁₀₀ = 157 cfs
V₁₀₀ = 11.70 fps
HW₁₀₀ = 2372.90 ft



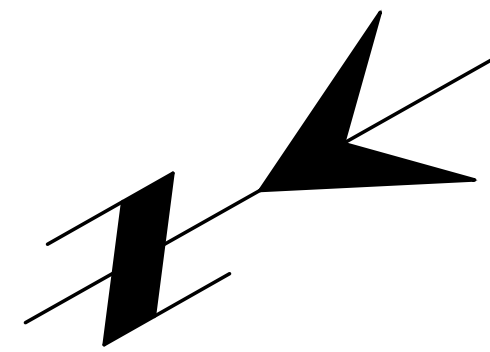
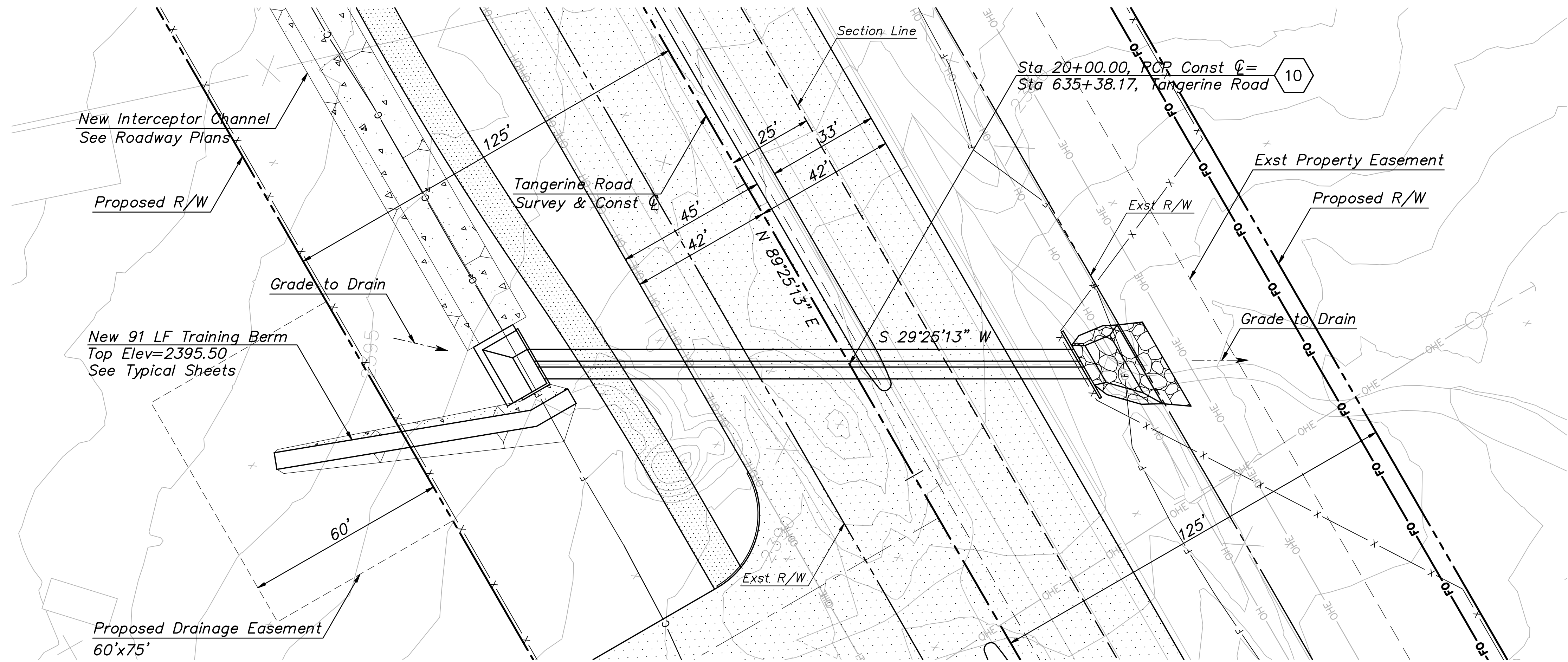
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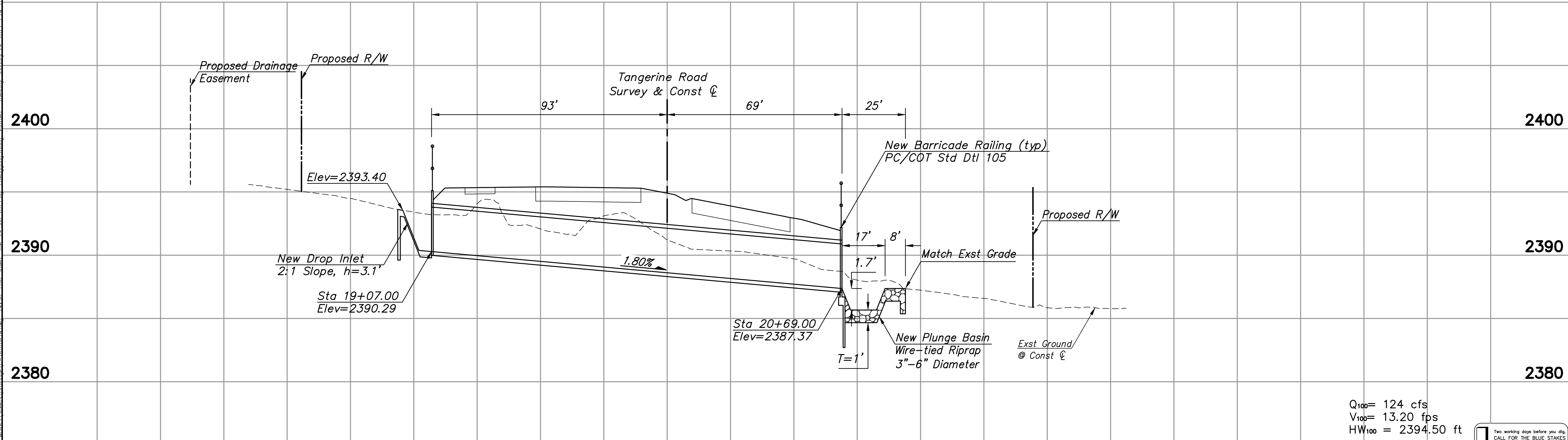
TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 627+83.70
TANGERINE ROAD



NOTES:

- Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
- Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
- Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Q₁₀₀ = 124 cfs
V₁₀₀ = 13.20 fps
HW₁₀₀ = 2394.50 ft

Sta 635+38.17
New 2-42"x162' RCP
Skew 30° Rt



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

TOWN OF MARANA - PROJECT NO. 2005-061

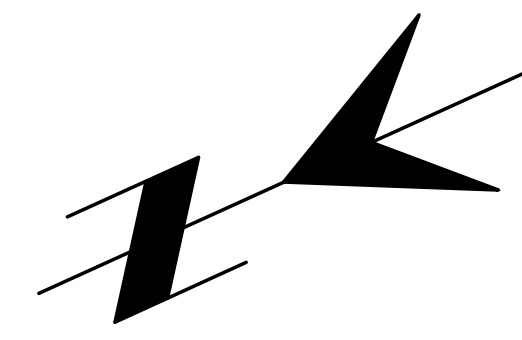
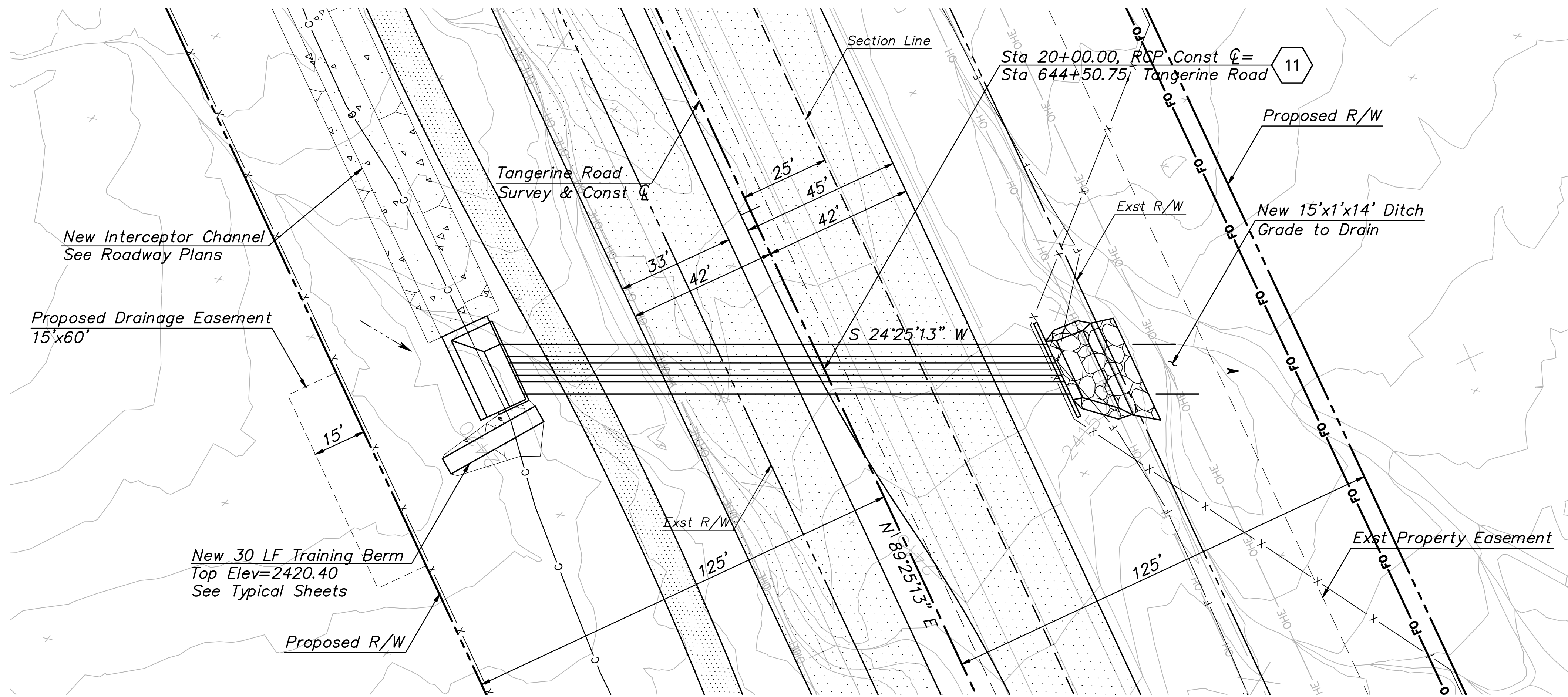
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 635+38.17
TANGERINE ROAD

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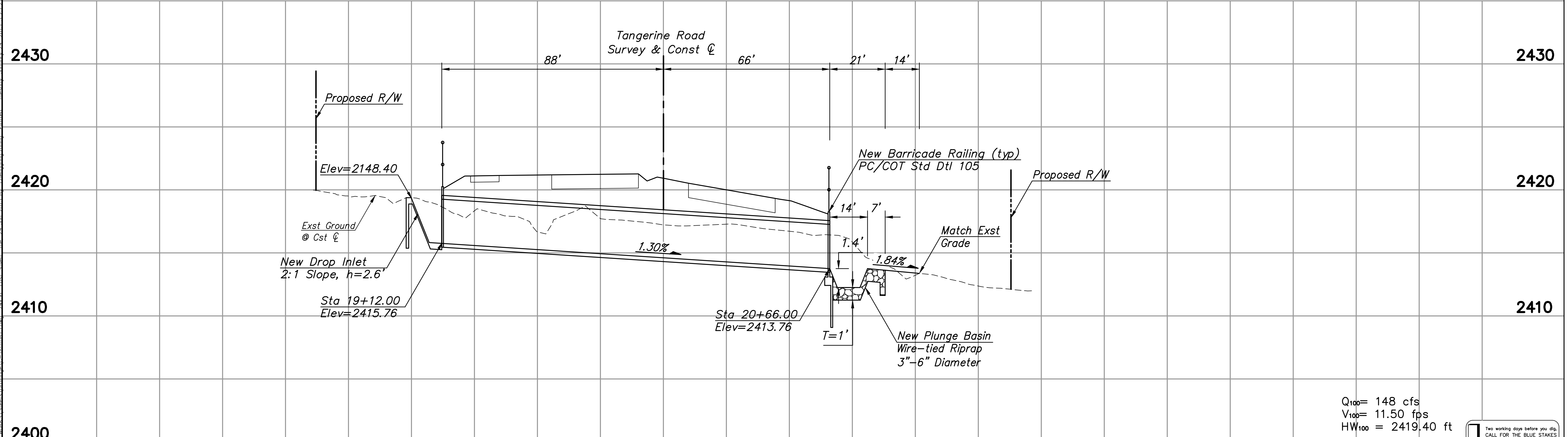
NO. REVISION DESCRIPTION DIV. ENGINEER DATE



NOTES:

1. Inlet & Out headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
4. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Q₁₀₀ = 148 cfs
V₁₀₀ = 11.50 fps
HW₁₀₀ = 2419.40 ft

Sta 644+50.75
New 3-42"x154' RCP
Skew 25° Rt



SCALES: HORIZ. 1"=20'
VERT. 1"=4' SHEET DR15 OF DR39

DESIGNED:	CZ	DATE:	12/12
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PROJ. ENG.:	AA		

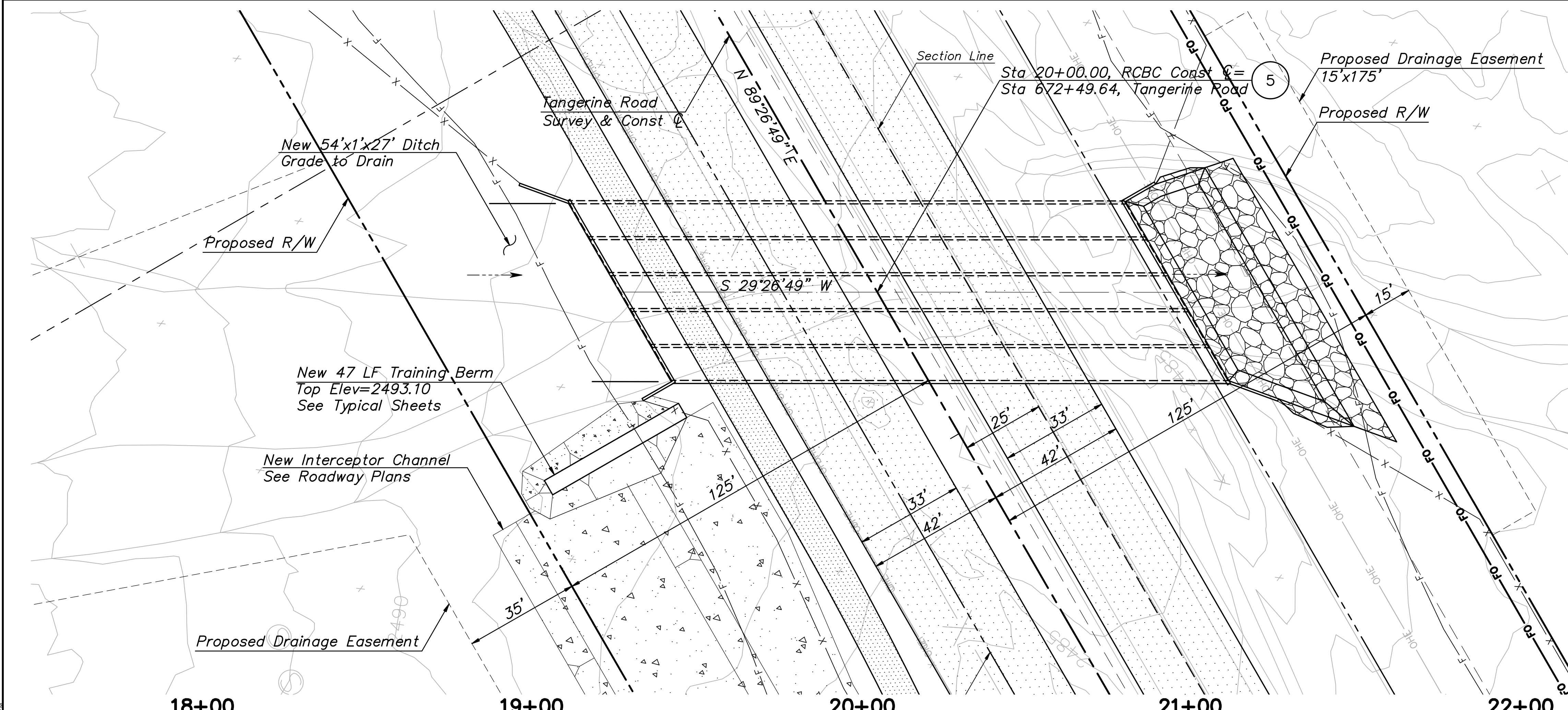
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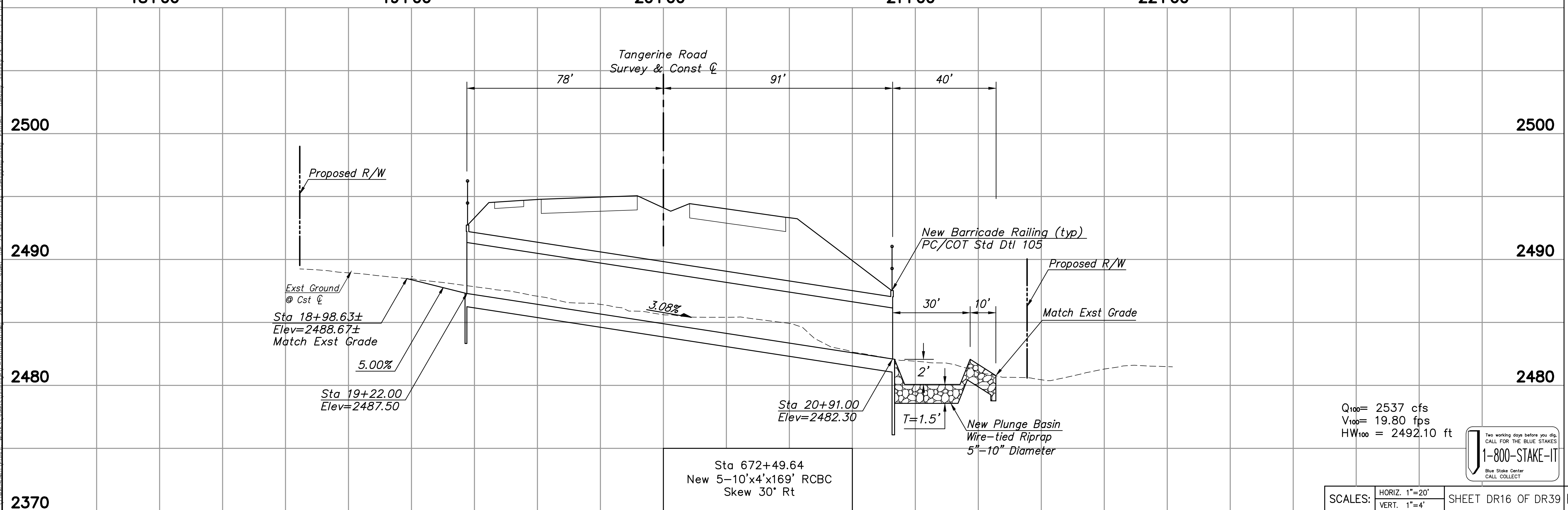
TOWN OF MARANA - PROJECT NO. 2005-061

DRAINAGE PLAN AND PROFILE FOR
TANGERINE ROAD
STA 644+50.75
TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-04.70, 4:1 slopes and 30° skew.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-04.50, 6:1 slopes and 30° skew.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



$Q_{100} = 2537$ cfs
 $V_{100} = 19.80$ fps
 $HW_{100} = 2492.10$ ft



SCALES: HORIZ. 1"=20'
 VERT. 1"=4'
 SHEET DR16 OF DR39

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PROJ. ENG.:	AA		

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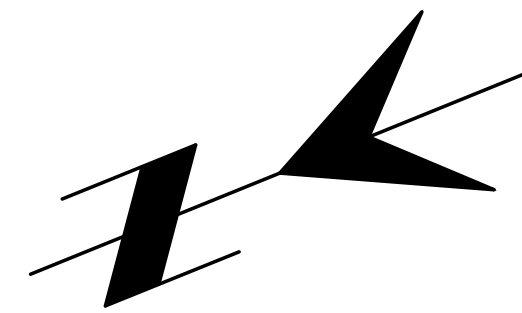
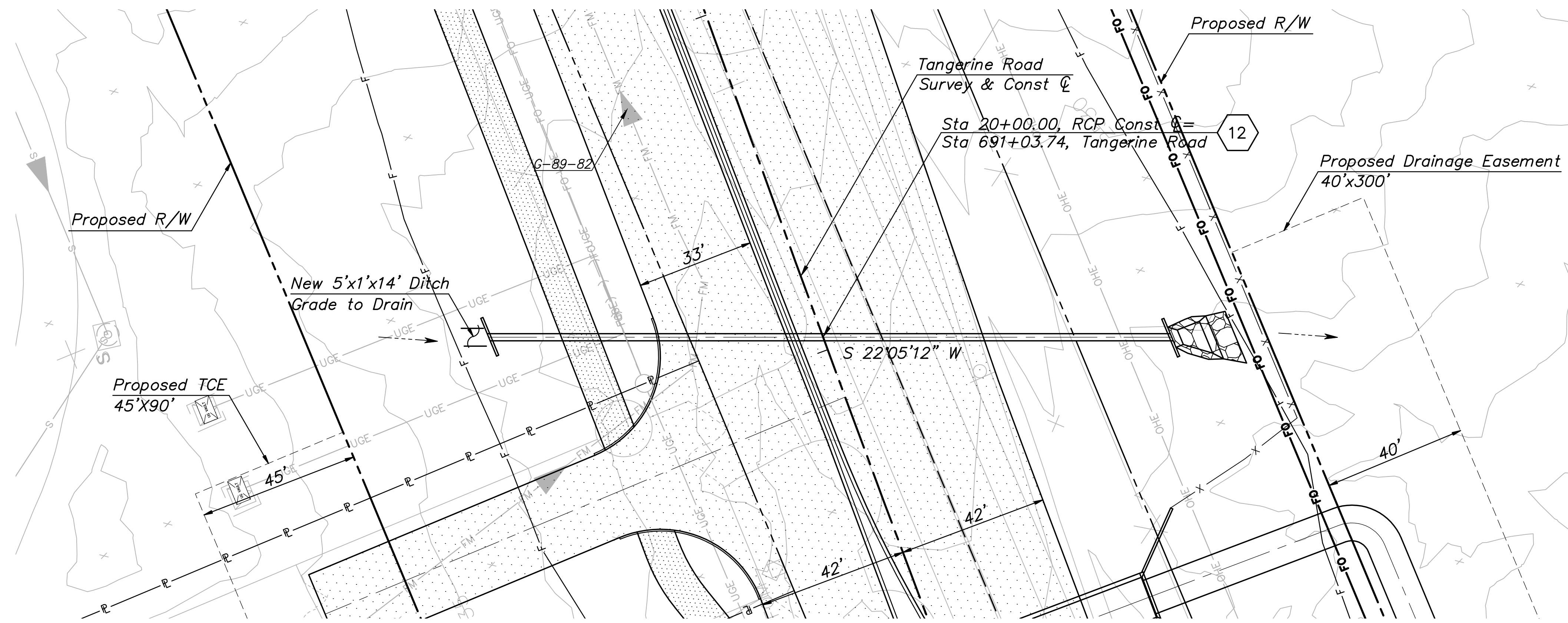
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TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 672+49.64
 TANGERINE ROAD

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2370

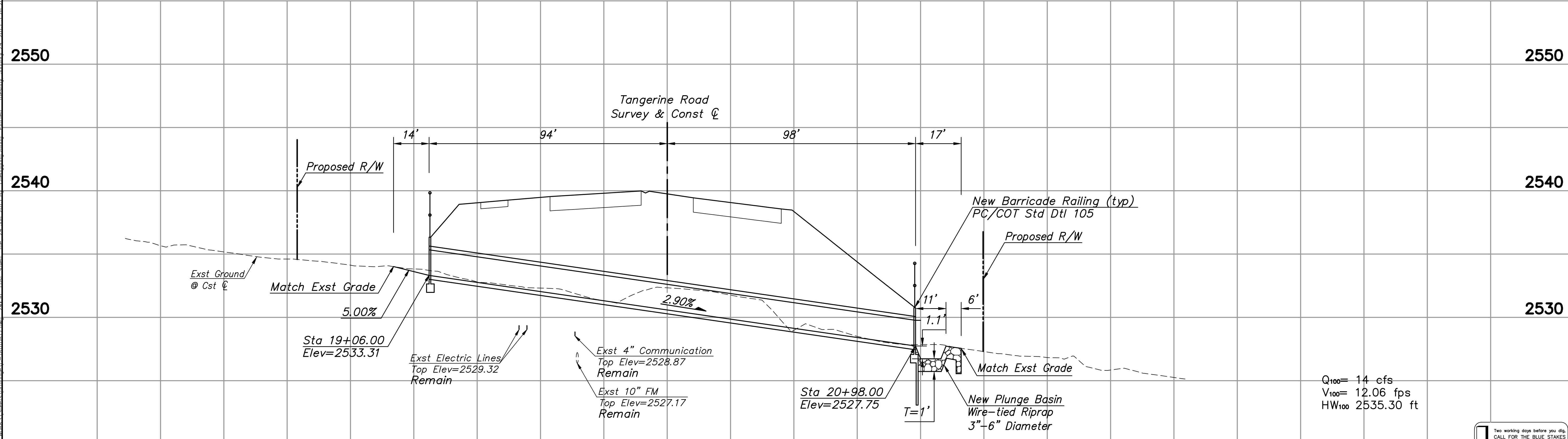
Sta 672+49.64
 New 5-10'x4'x169' RCBC
 Skew 30° Rt



NOTES:

1. Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipe shall be constructed per ADOT Std Dwg C-13.10 & C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
4. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Q₁₀₀ = 14 cfs
 V₁₀₀ = 12.06 fps
 HW₁₀₀ = 2535.30 ft

Sta 691+03.74
 New 1-24"x192' RCP
 Skew 20° Rt

Two working days before you dig,
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1-800-STAKE-IT
 Blue Stake Center
 CALL COLLECT

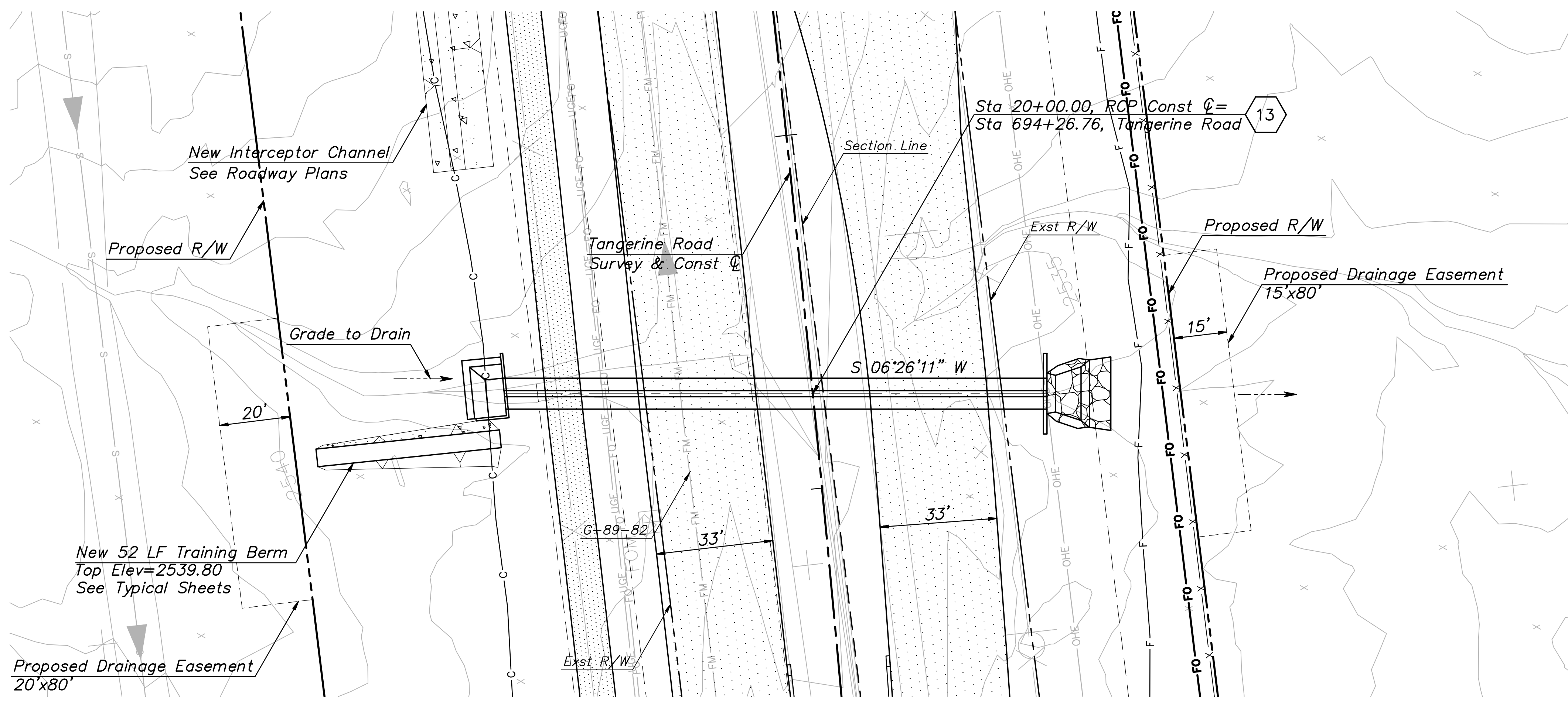
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DRAWN:	CZ	DATE:	12/12
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PROJ. ENG.:	AA	DATE:	12/12

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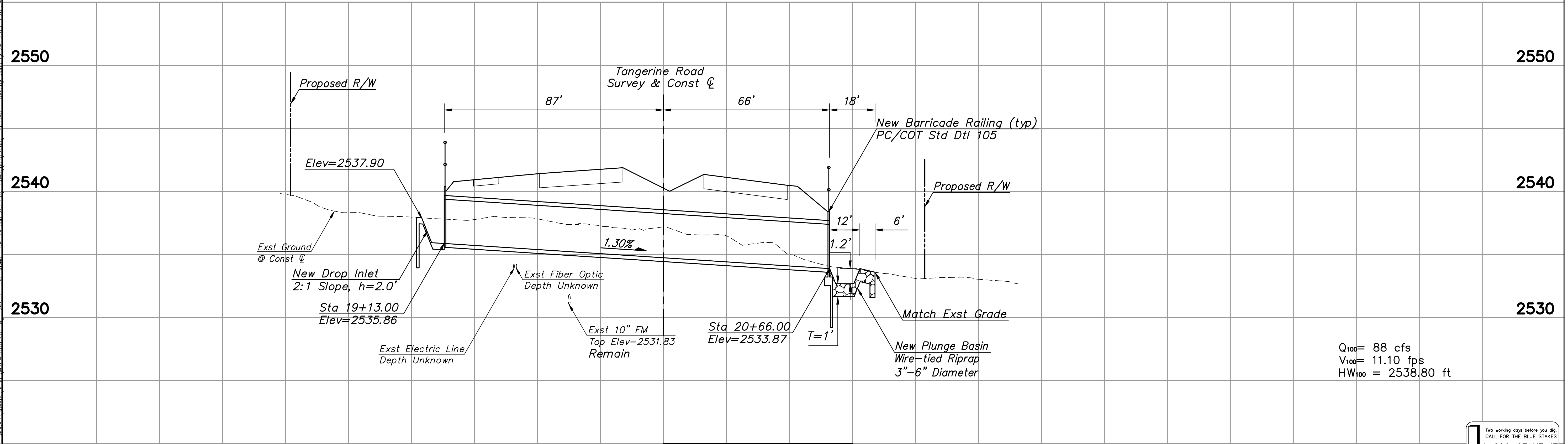
TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 691+03.74
 TANGERINE ROAD



NOTES:

1. Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Q₁₀₀ = 88 cfs
V₁₀₀ = 11.10 fps
HW₁₀₀ = 2538.80 ft

Sta 694+26.76
New 2-42"x153' RCP
Skew 5° Rt



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

TOWN OF MARANA - PROJECT NO. 2005-061

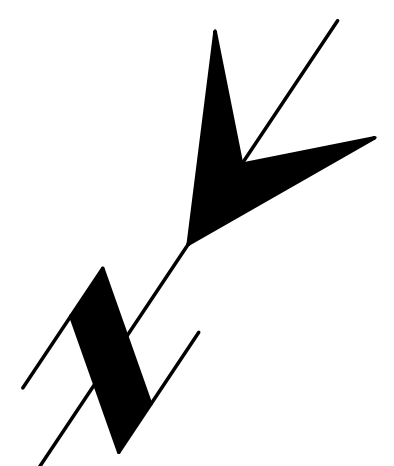
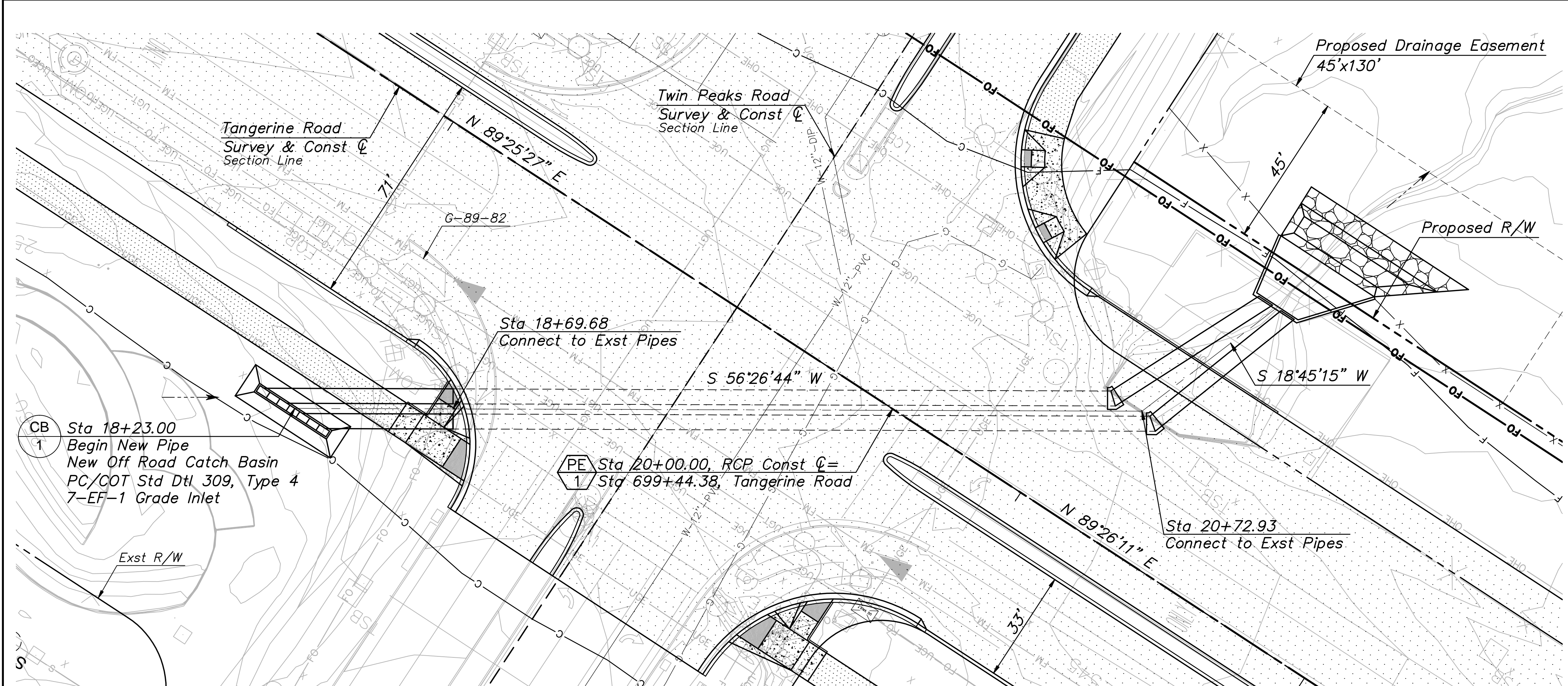
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 694+26.76
TANGERINE ROAD

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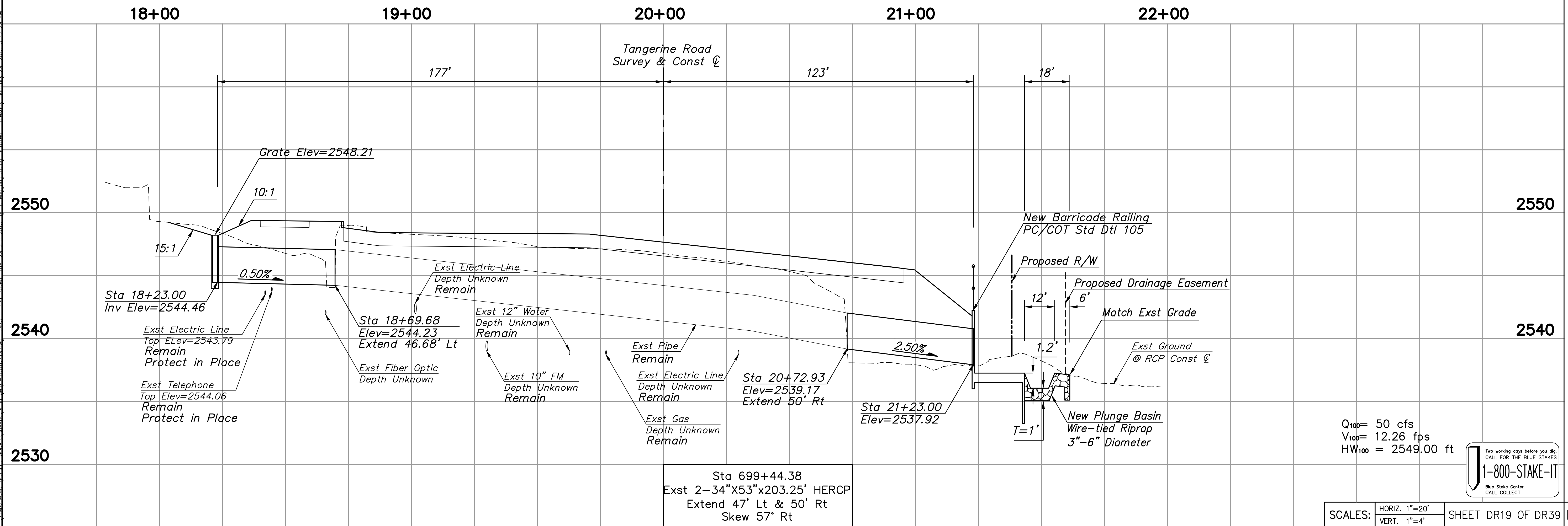
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NOTES:

1. Inlet shall be based on PC/COT Std Dtl 309.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13, 6:1 slopes.
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Q₁₀₀ = 50 cfs
 V₁₀₀ = 12.26 fps
 HW₁₀₀ = 2549.00 ft

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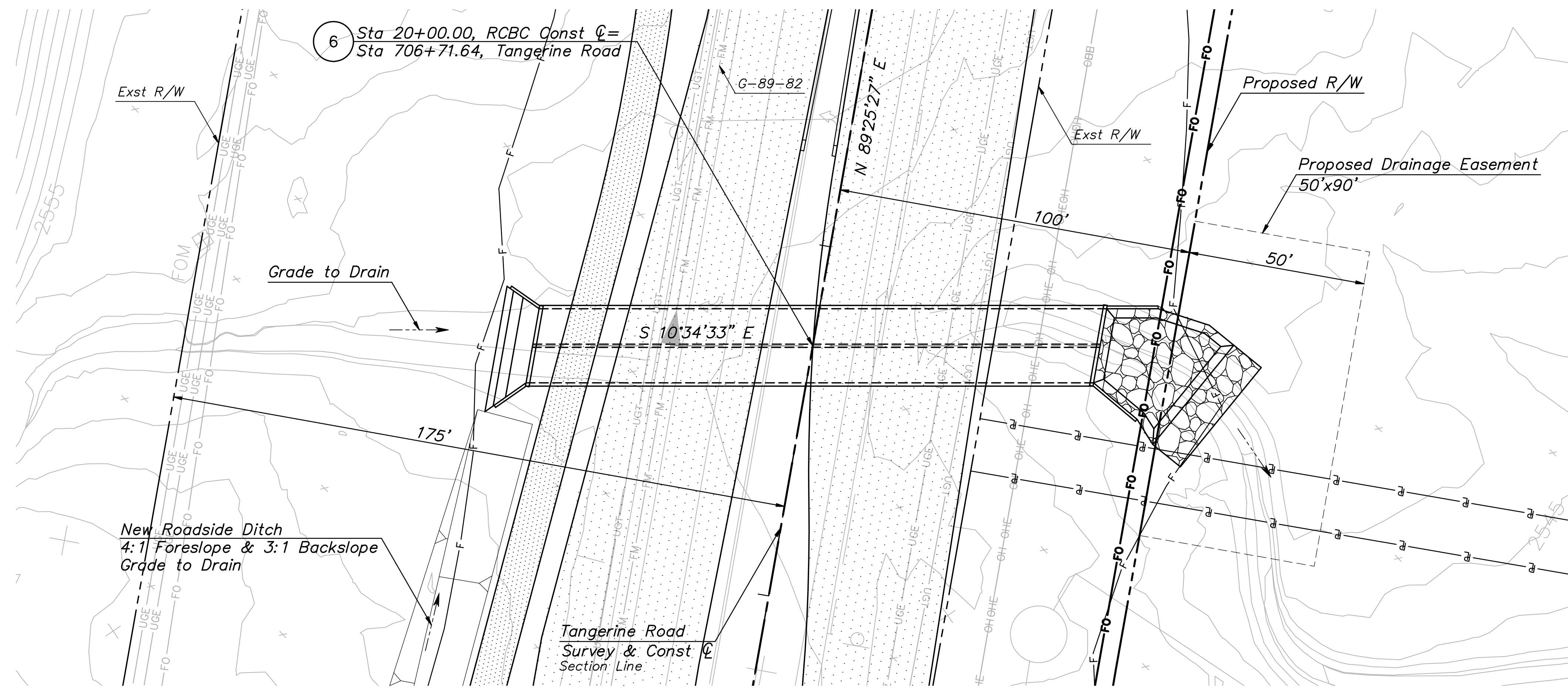
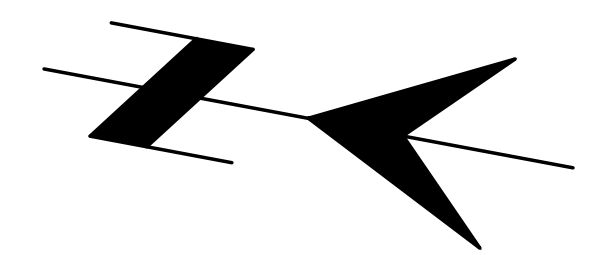
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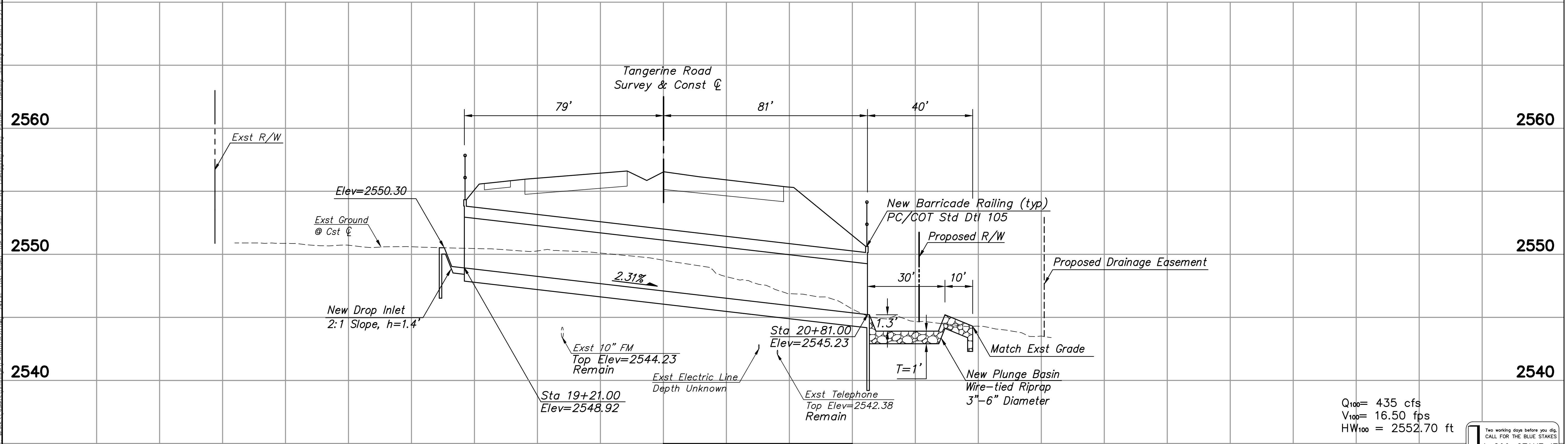
TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 699+44.38
 TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on 10° skew, 4:1 slopes, and ADOT Std Dwg B-04.30.
2. Outlet headwall & wingwall dimensions shall be based on 10° skew, 6:1 slopes, and ADOT Std Dwg B-04.10. $\theta_1=60^\circ$; $\theta_2=80^\circ$.
3. Boxes shall be constructed per ADOT Std Dwg B-02.20.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 706+71.64
New 2-10'x4'x160' RCBC
Skew 10° Lt

Q₁₀₀ = 435 cfs
V₁₀₀ = 16.50 fps
HW₁₀₀ = 2552.70 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

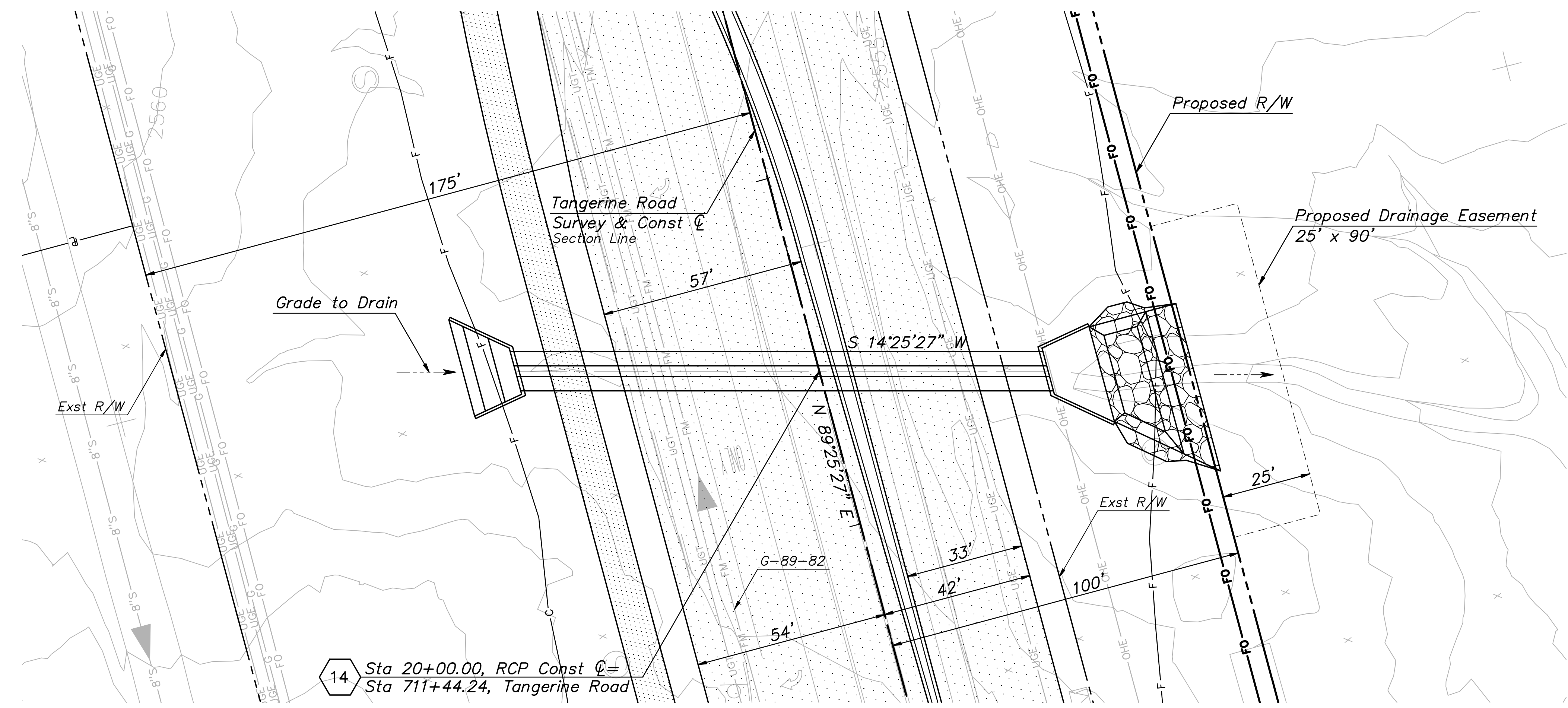
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 706+71.64
TANGERINE ROAD

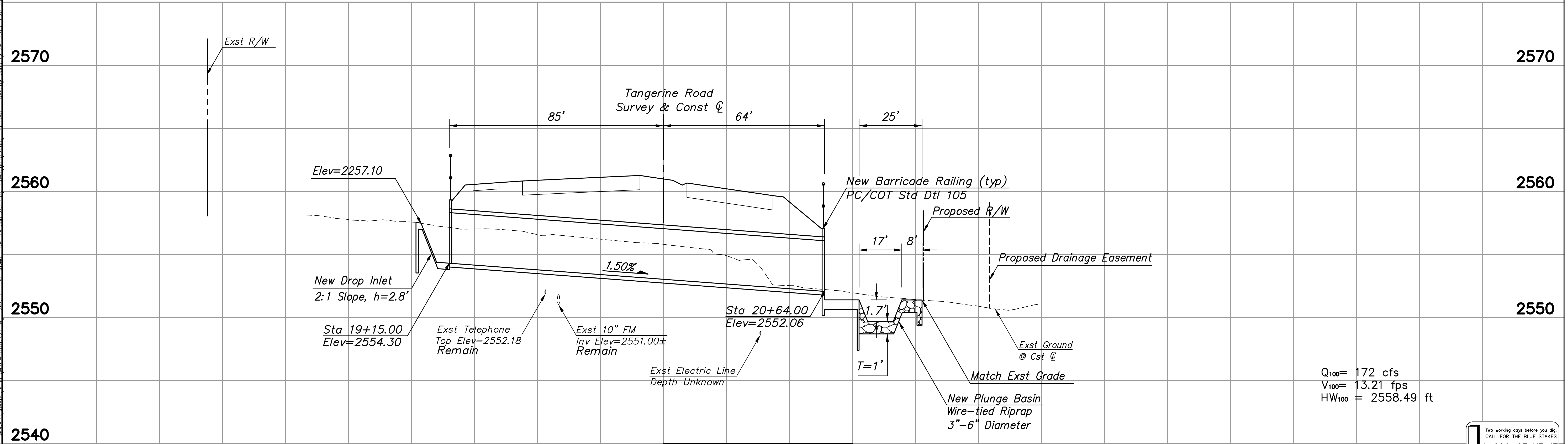


NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13 with 4:1 slopes.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13 with 6:1 slopes.
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

14 Sta 20+00.00, RCP Const @
Sta 711+44.24, Tangerine Road

18+00 19+00 20+00 21+00 22+00



Q₁₀₀ = 172 cfs
V₁₀₀ = 13.21 fps
HW₁₀₀ = 2558.49 ft

Sta 711+44.24
New 2-48"x149' RCP
Skew 15' Rt



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

TOWN OF MARANA - PROJECT NO. 2005-061

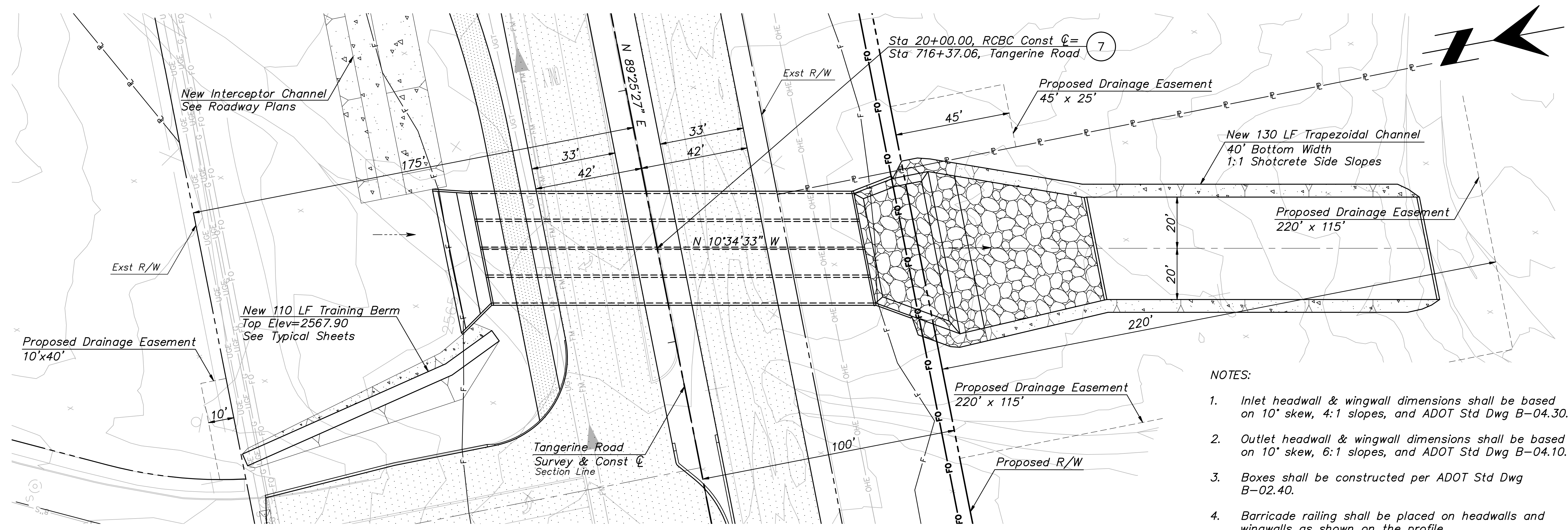
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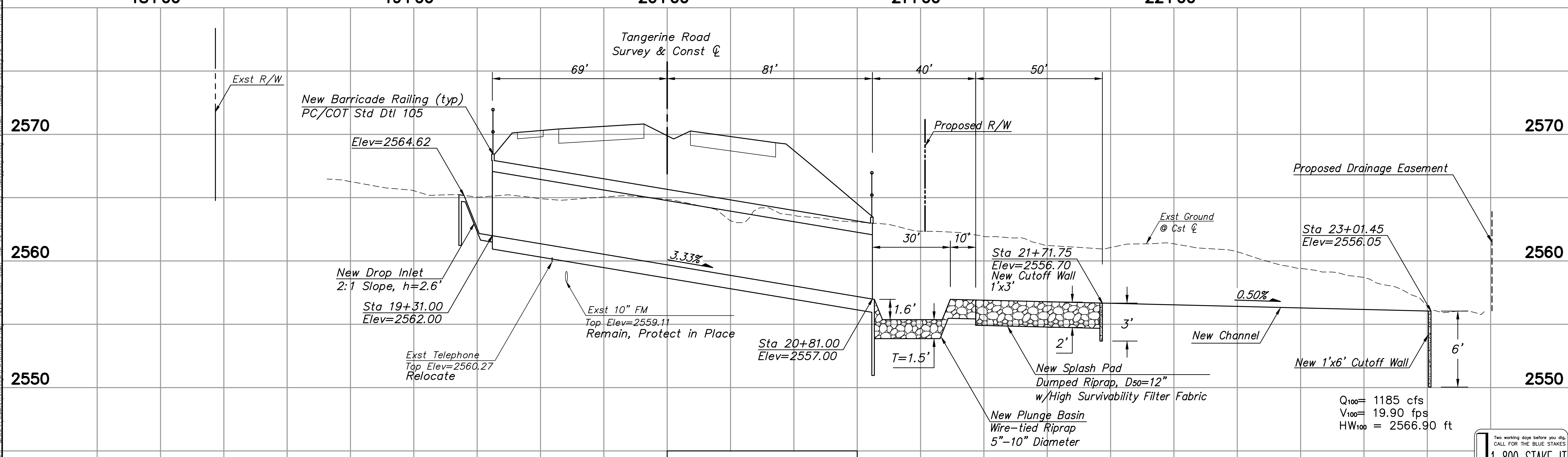
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 711+44.24
TANGERINE ROAD

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- NOTES:
1. Inlet headwall & wingwall dimensions shall be based on 10° skew, 4:1 slopes, and ADOT Std Dwg B-04.30.
 2. Outlet headwall & wingwall dimensions shall be based on 10° skew, 6:1 slopes, and ADOT Std Dwg B-04.10.
 3. Boxes shall be constructed per ADOT Std Dwg B-02.40.
 4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Sta 716+37.06
New 4-10'x5'x150' RCBC
Skew 11° Rt

Q₁₀₀ = 1185 cfs
V₁₀₀ = 19.90 fps
HW₁₀₀ = 2566.90 ft

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SCALES: HORIZ. 1"=20'
VERT. 1"=4'

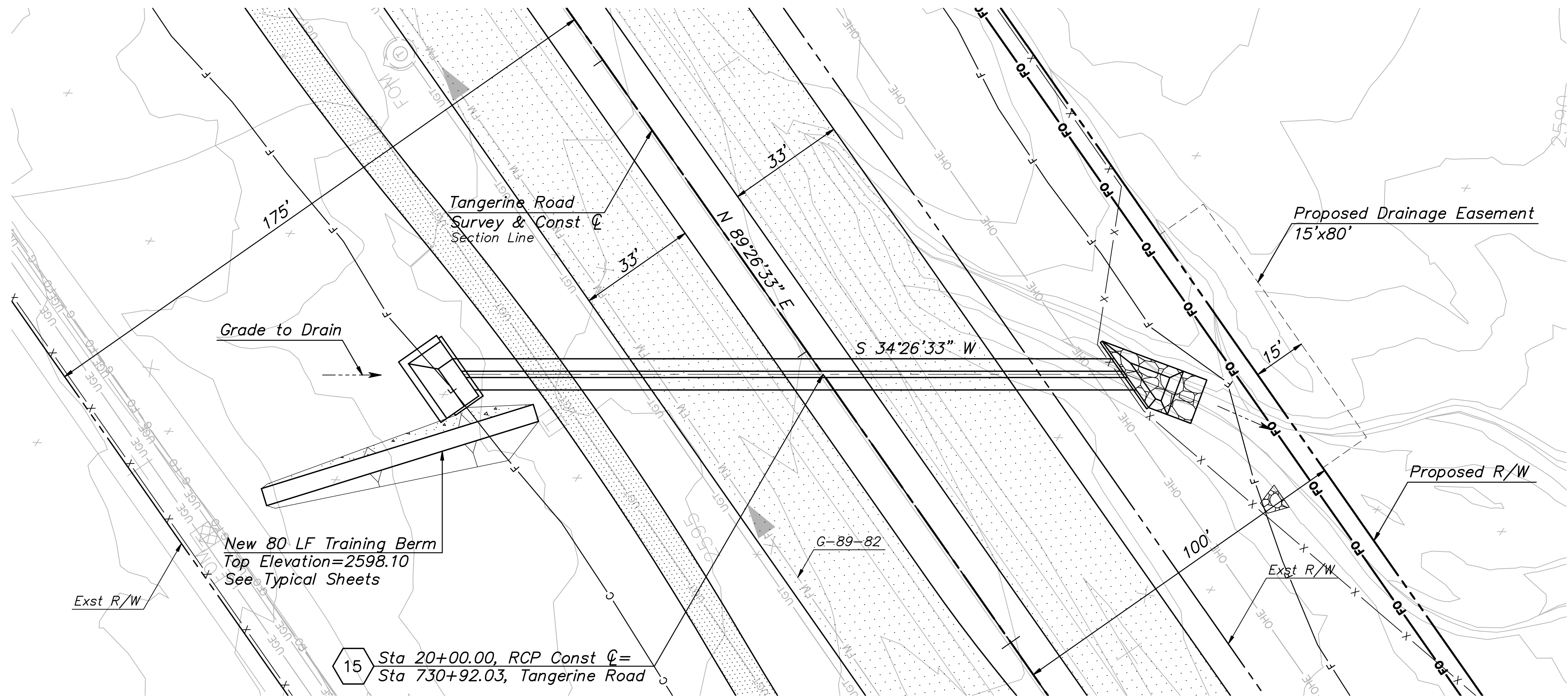
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 716+37.06
TANGERINE ROAD



NOTES:

1. Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11. Inlet shall be an "L" headwall.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls as shown on the profile.

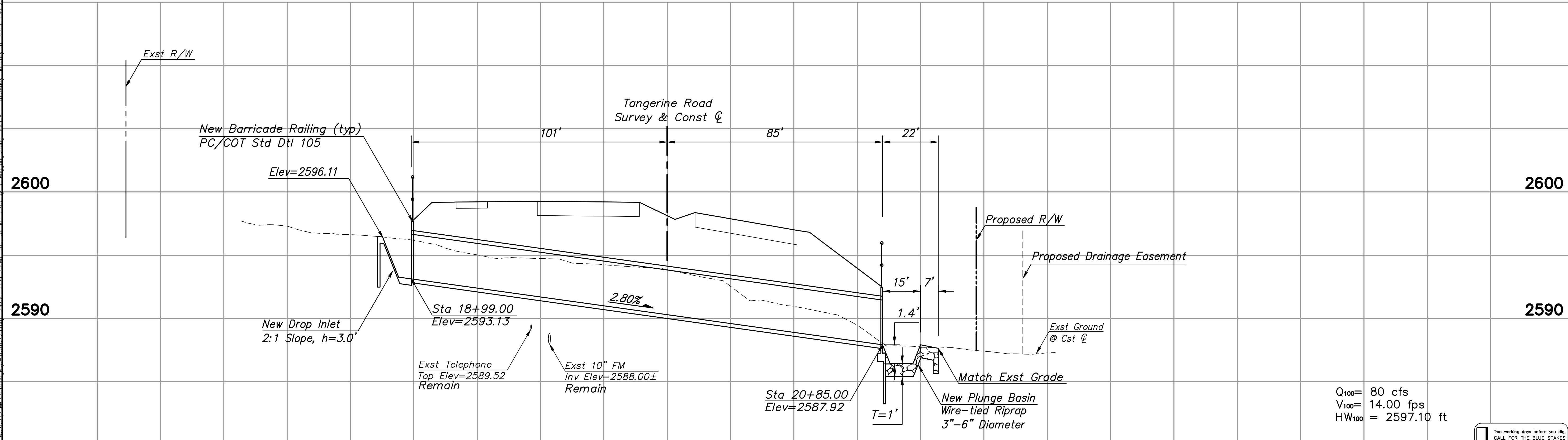
18+00

19+00

20+00

21+00

22+00



Q₁₀₀ = 80 cfs
 V₁₀₀ = 14.00 fps
 HW₁₀₀ = 2597.10 ft

Sta 730+92.03
 New 2-42"x186' RCP
 Skew 35° Rt

Two working days before you dig,
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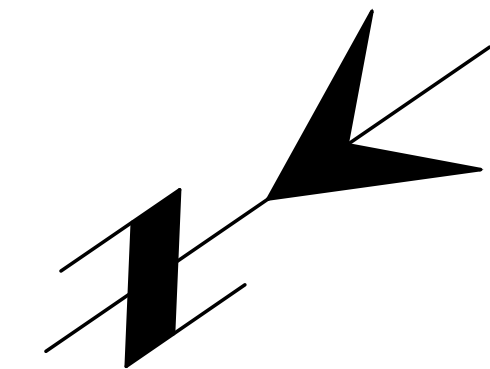
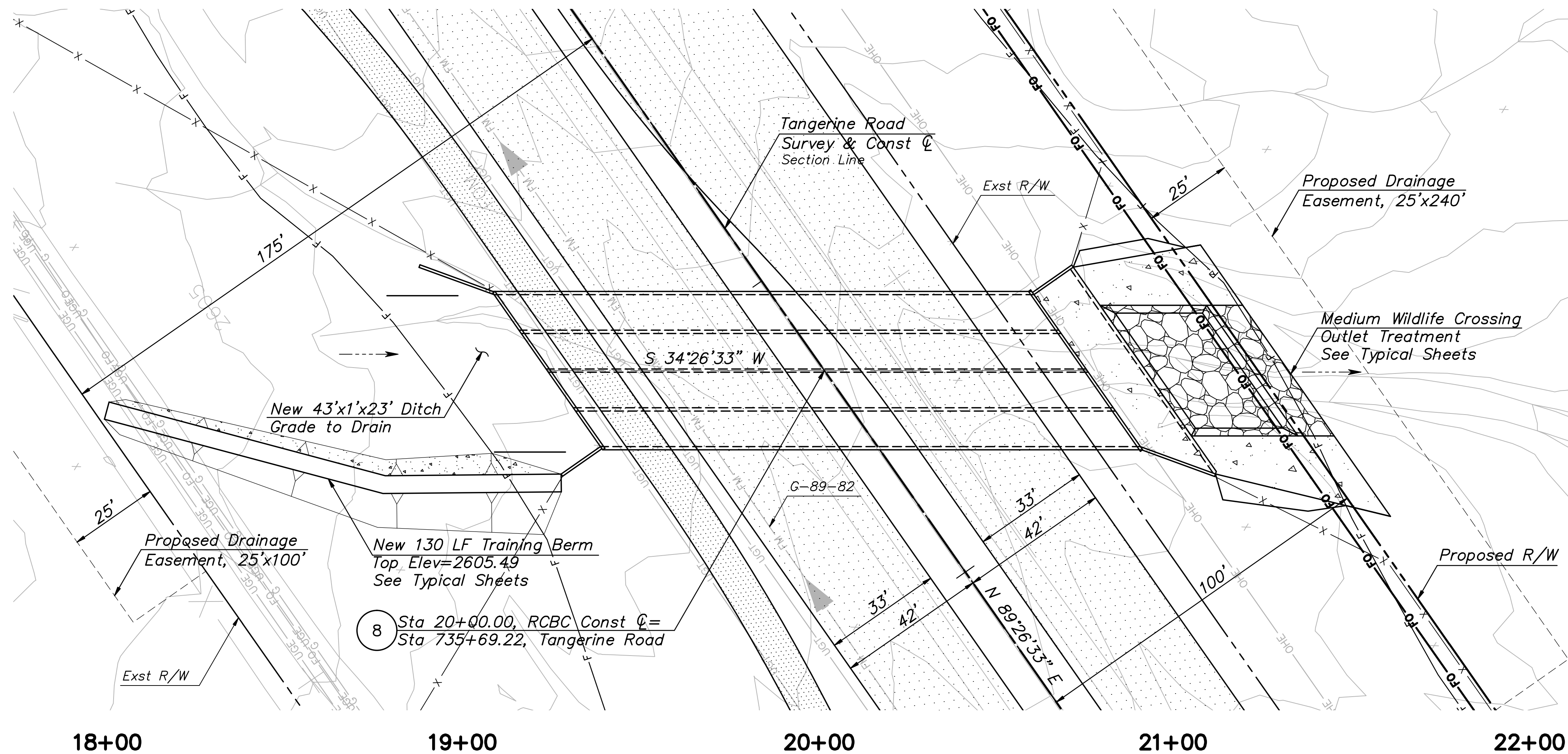
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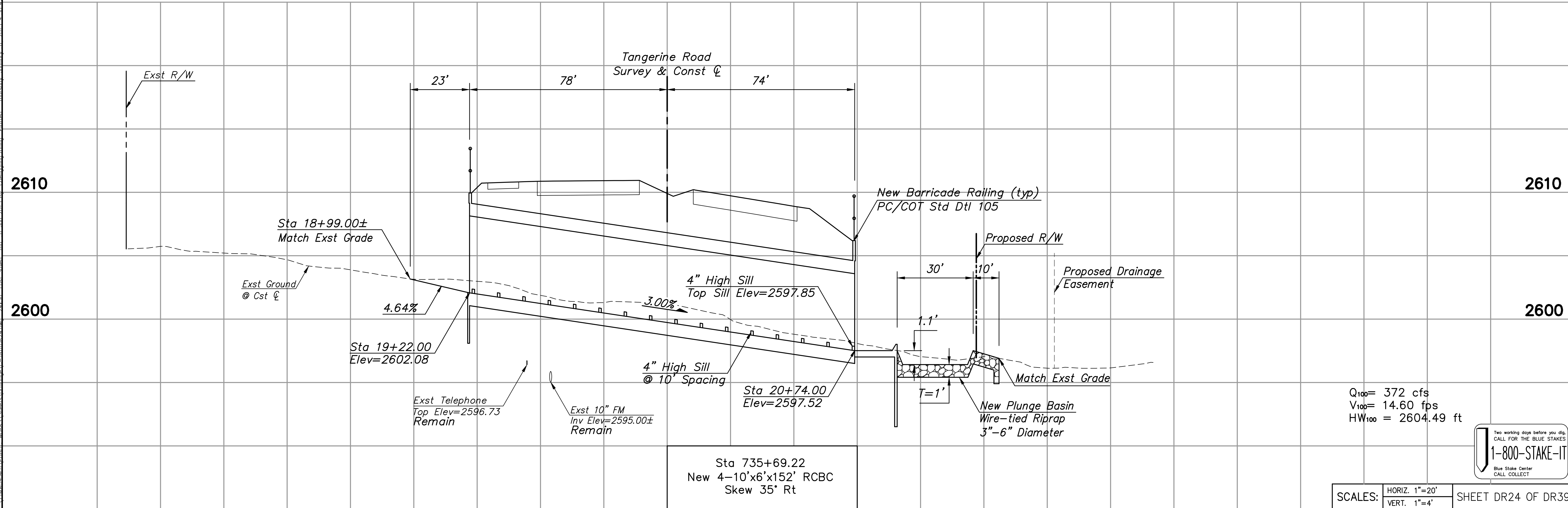
TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 730+92.03
 TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on 30° skew, 4:1 slopes, and ADOT Std Dwg B-04.30.
2. Outlet headwall & wingwall dimensions shall be based on 30° skew, 6:1 slopes, and ADOT Std Dwg B-04.10.
3. Outlet apron dimensions shall be based on ADOT Std Dwg B-06.10, 30° skew and 6:1 slopes.
4. Boxes shall be constructed per ADOT Std Dwg B-02.40.
5. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
6. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Q₁₀₀ = 372 cfs
V₁₀₀ = 14.60 fps
HW₁₀₀ = 2604.49 ft

Sta 735+69.22
New 4-10'x6'x152' RCBC
Skew 35° Rt



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

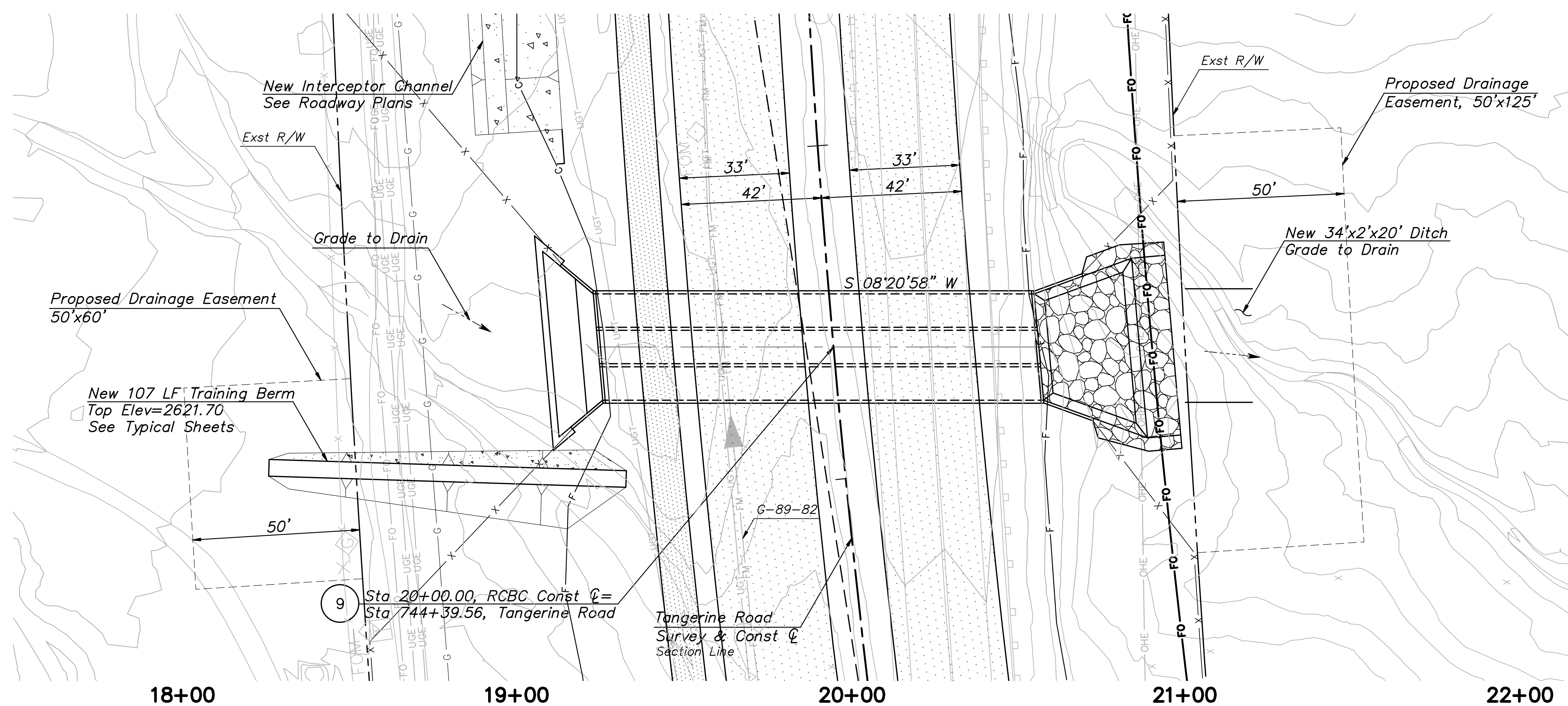
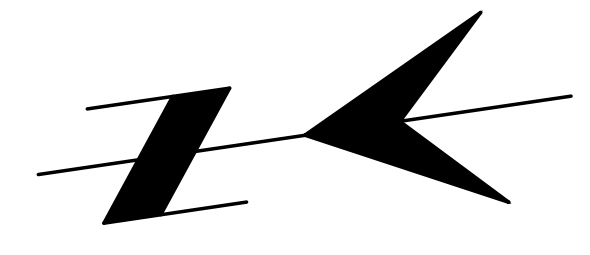
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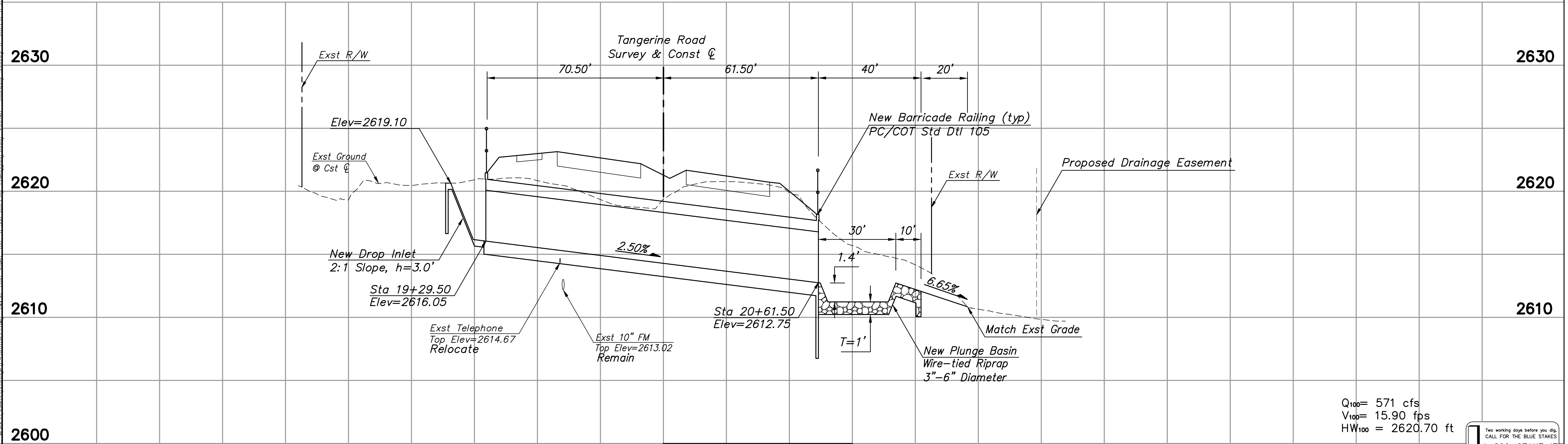
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 735+69.22
TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on 0° skew, 4:1 slopes, and ADOT Std Dwg B-04.30.
2. Outlet headwall & wingwall dimensions shall be based on 0° skew, 6:1 slopes, and ADOT Std Dwg B-04.10.
3. Boxes shall be constructed per ADOT Std Dwg B-02.30.
4. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
5. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Sta 744+39.56
 Remove Exst 1-36" RCP
 New 3-10'x4'x132' RCBC
 Skew 5° Rt

Q₁₀₀ = 571 cfs
 V₁₀₀ = 15.90 fps
 HW₁₀₀ = 2620.70 ft



SCALES: HORIZ. 1"=20'
 VERT. 1"=4'

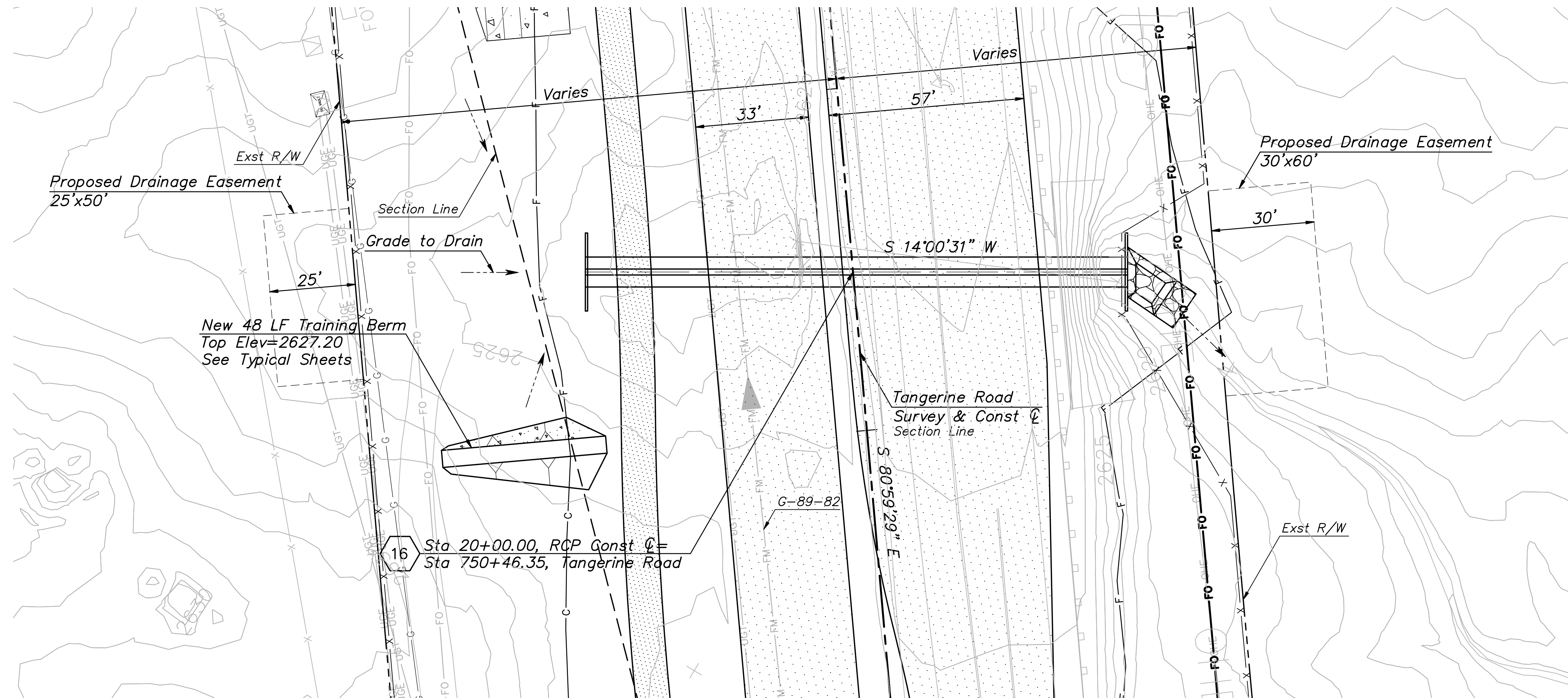
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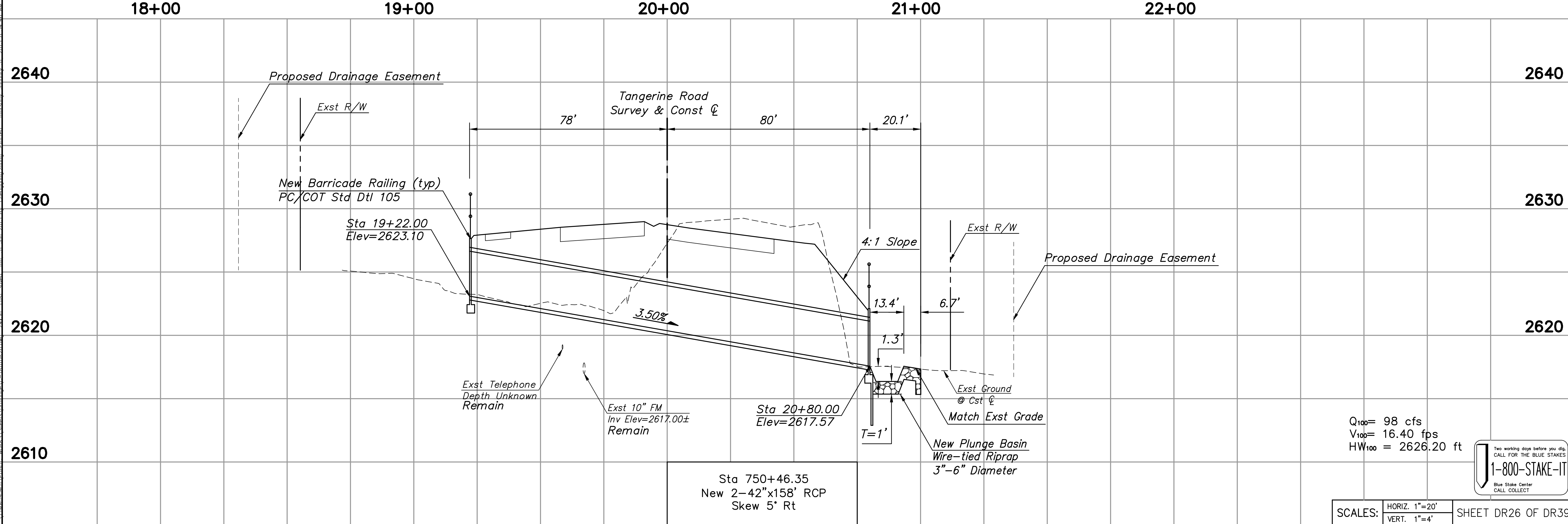
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TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE FOR
TANGERINE ROAD
 STA 744+39.56
 TANGERINE ROAD



NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls as shown on the profile.



Q₁₀₀ = 98 cfs
 V₁₀₀ = 16.40 fps
 HW₁₀₀ = 2626.20 ft



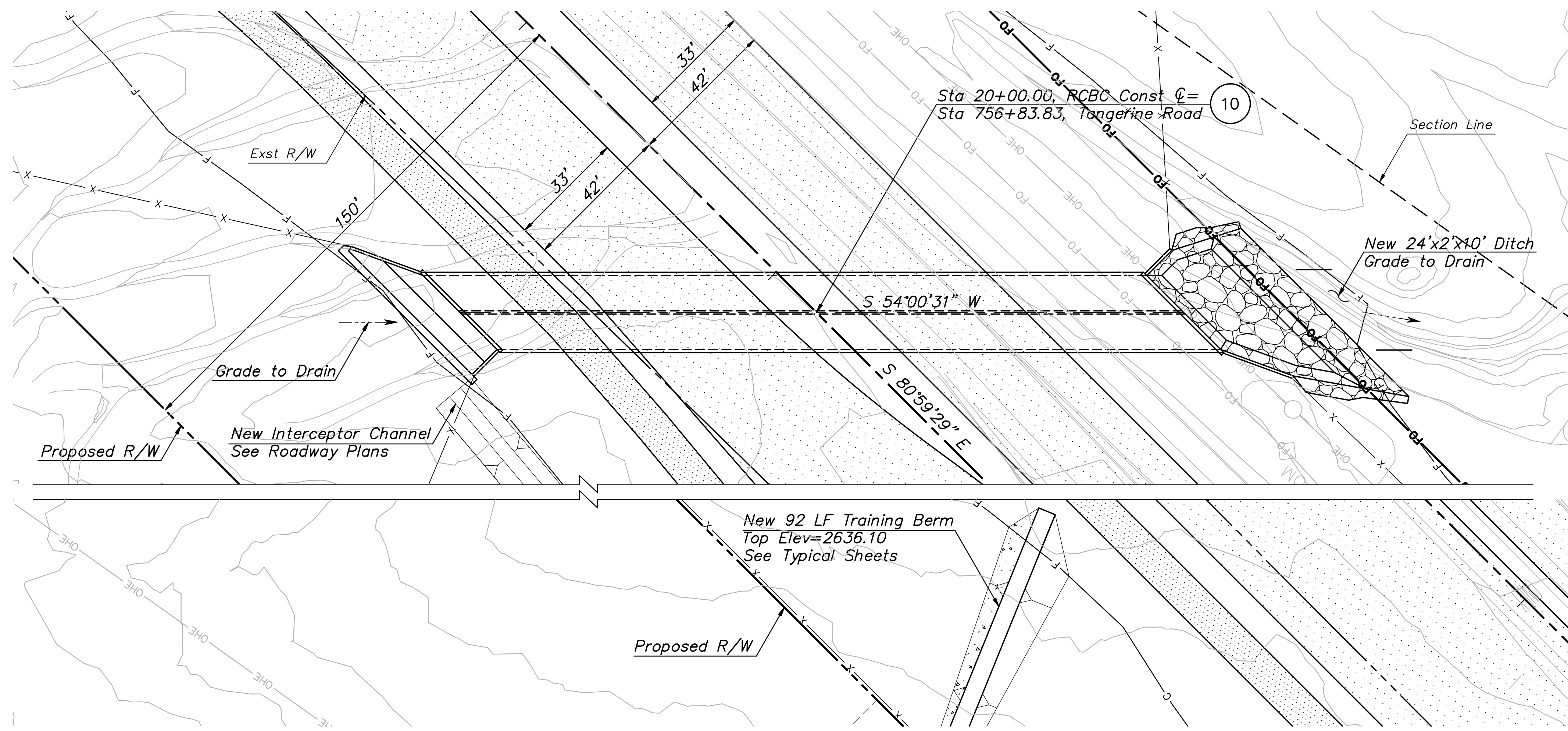
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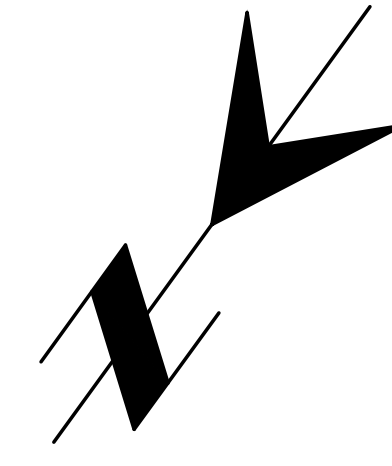
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 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 750+46.35
 TANGERINE ROAD

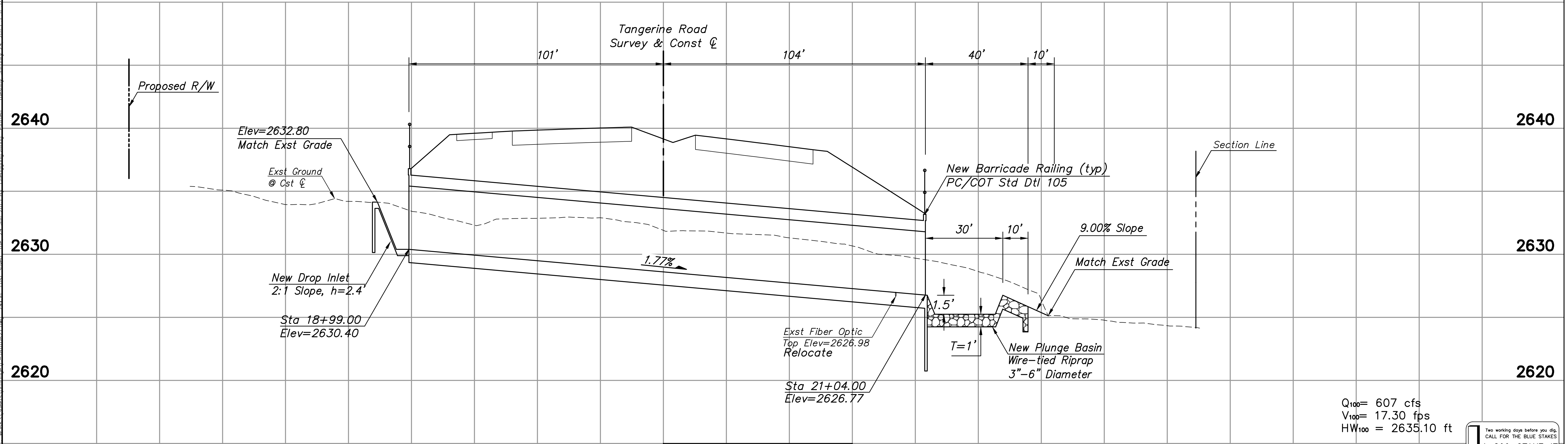


NOTES:

1. Inlet headwall & wingwall dimensions shall be based on 45° skew, 4:1 slopes, and ADOT Std Dwg B-04.70.
2. Outlet headwall & wingwall dimensions shall be based on 45° skew, 6:1 slopes, and ADOT Std Dwg B-04.50.
3. Boxes shall be constructed per ADOT Std Dwg B-02.20.
4. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
5. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



18+00 19+00 20+00 21+00 22+00



Sta 756+83.83
New 2-10'x5'x205' RCBC
Skew 45° Rt

Q₁₀₀ = 607 cfs
V₁₀₀ = 17.30 fps
HW₁₀₀ = 2635.10 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

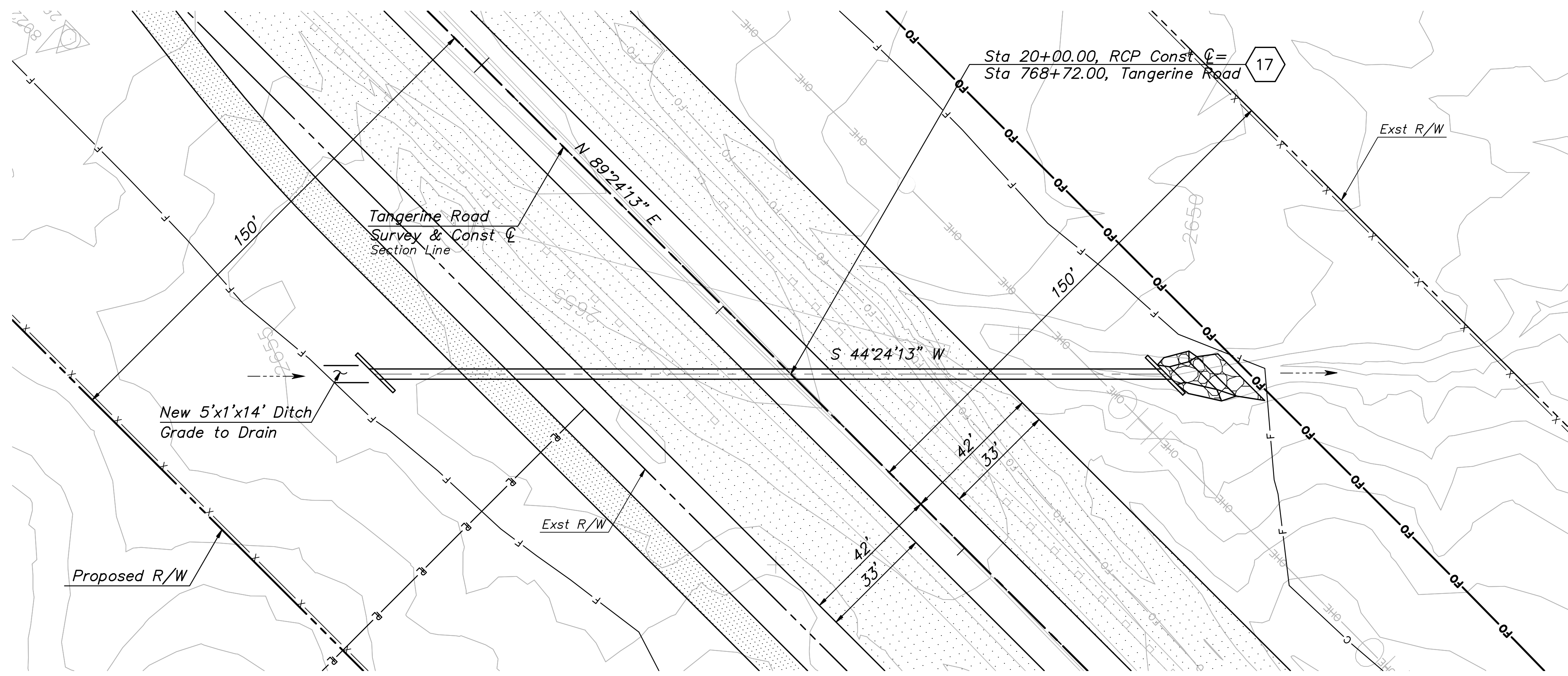
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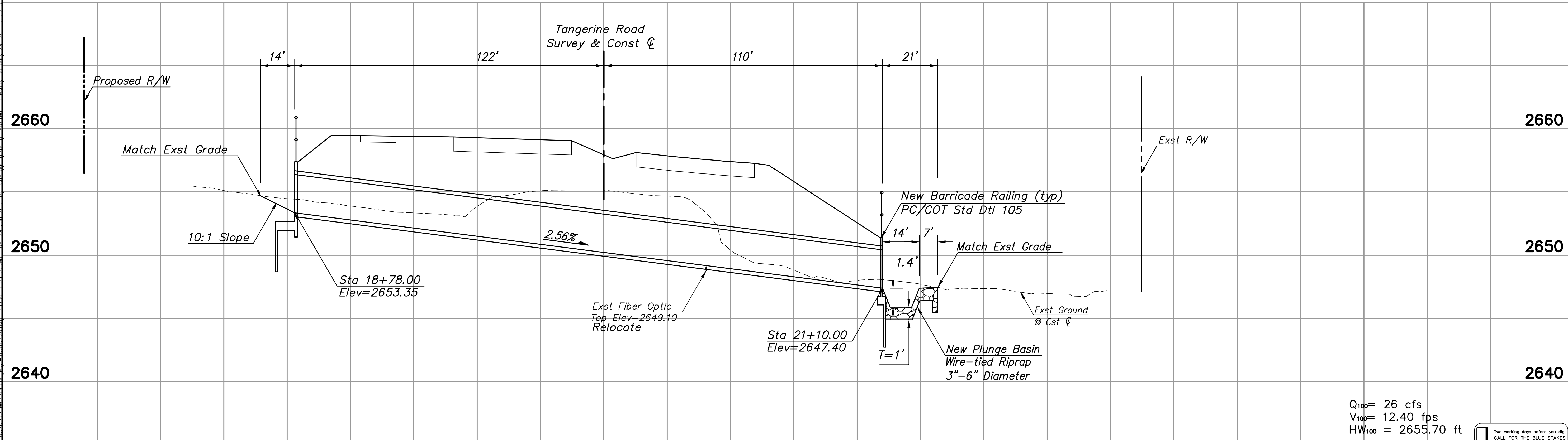
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DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 756+83.83
TANGERINE ROAD



NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
4. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 768+72.00
Remove Exst 1-36" RCP
New 1-36"x232' RCP
Skew 45° Rt

Q₁₀₀ = 26 cfs
V₁₀₀ = 12.40 fps
HW₁₀₀ = 2655.70 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

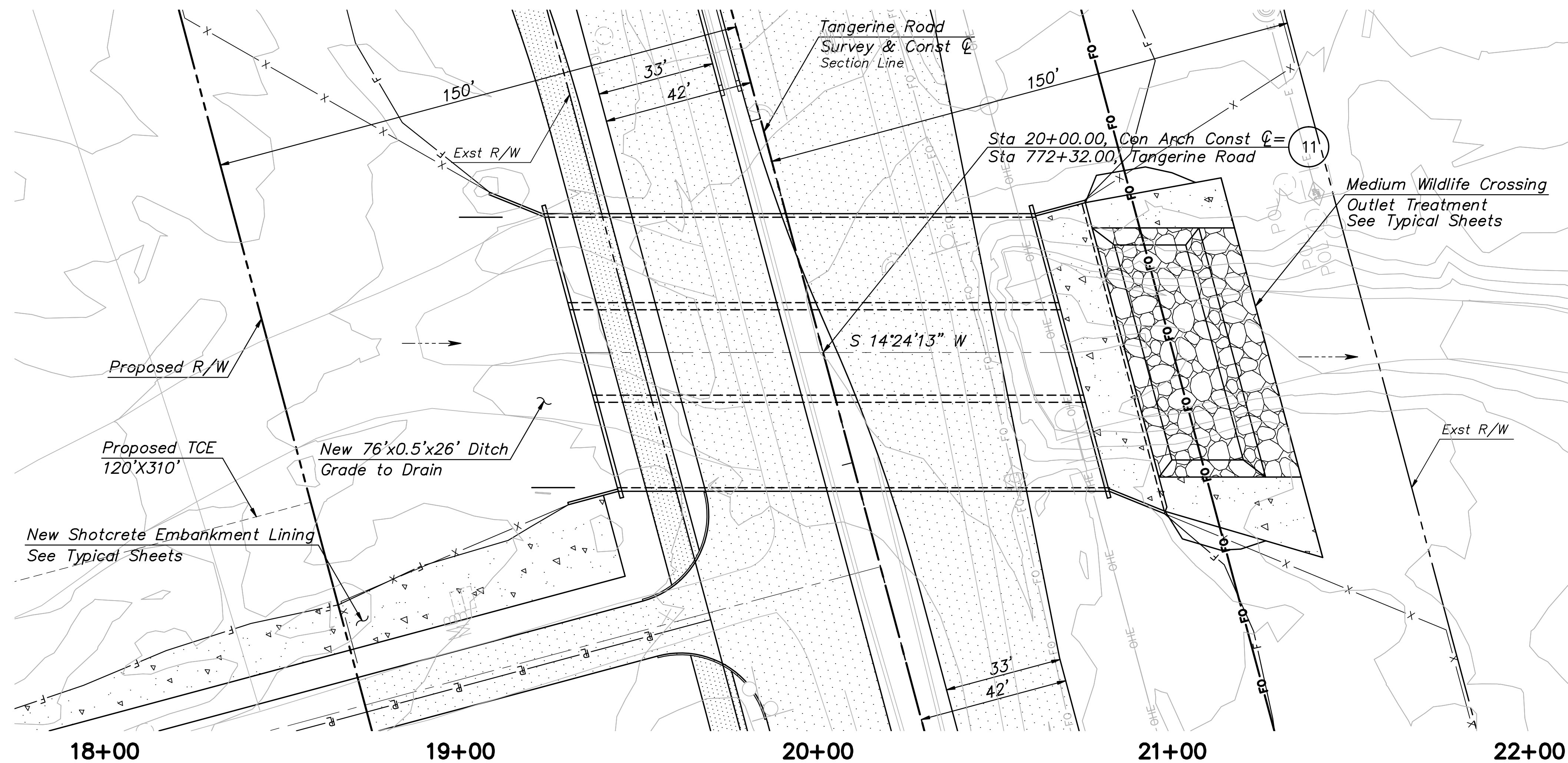
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STA 768+72.00
TANGERINE ROAD

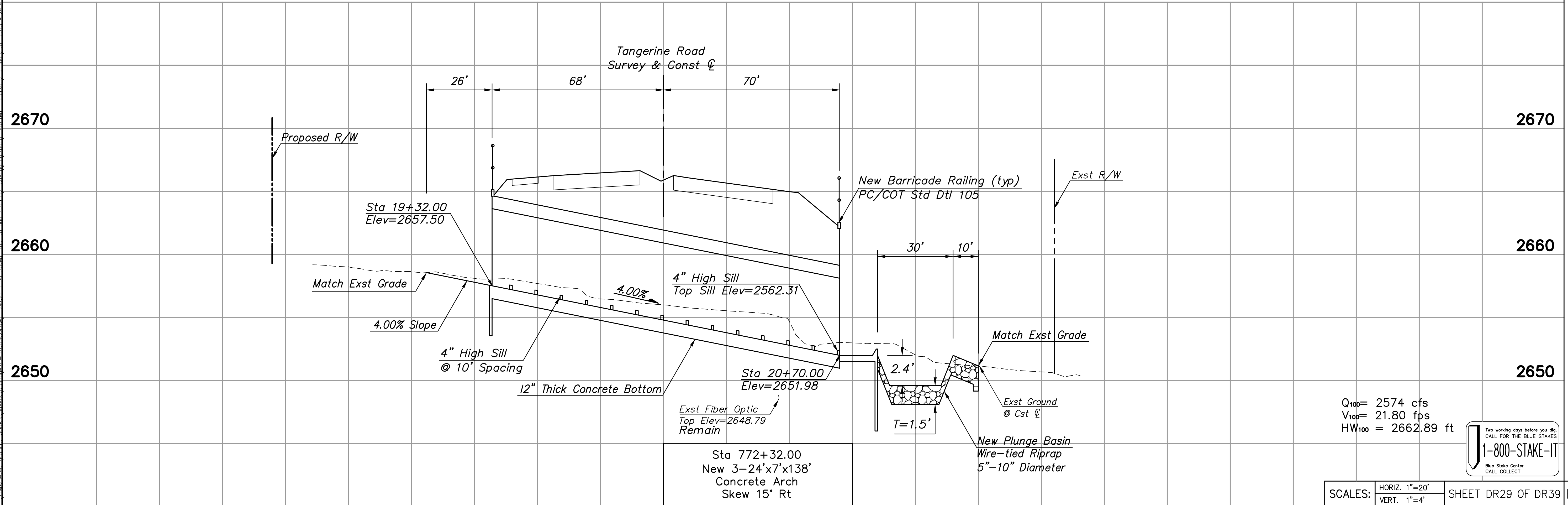


NOTES:

1. Concrete arch, headwalls, wingwalls, and outlet apron shall be based on manufacturer's design and specifications.
2. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
3. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



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$Q_{100} = 2574$ cfs
 $V_{100} = 21.80$ fps
 $HW_{100} = 2662.89$ ft



SCALES: HORIZ. 1"=20'
 VERT. 1"=4'
 SHEET DR29 OF DR39

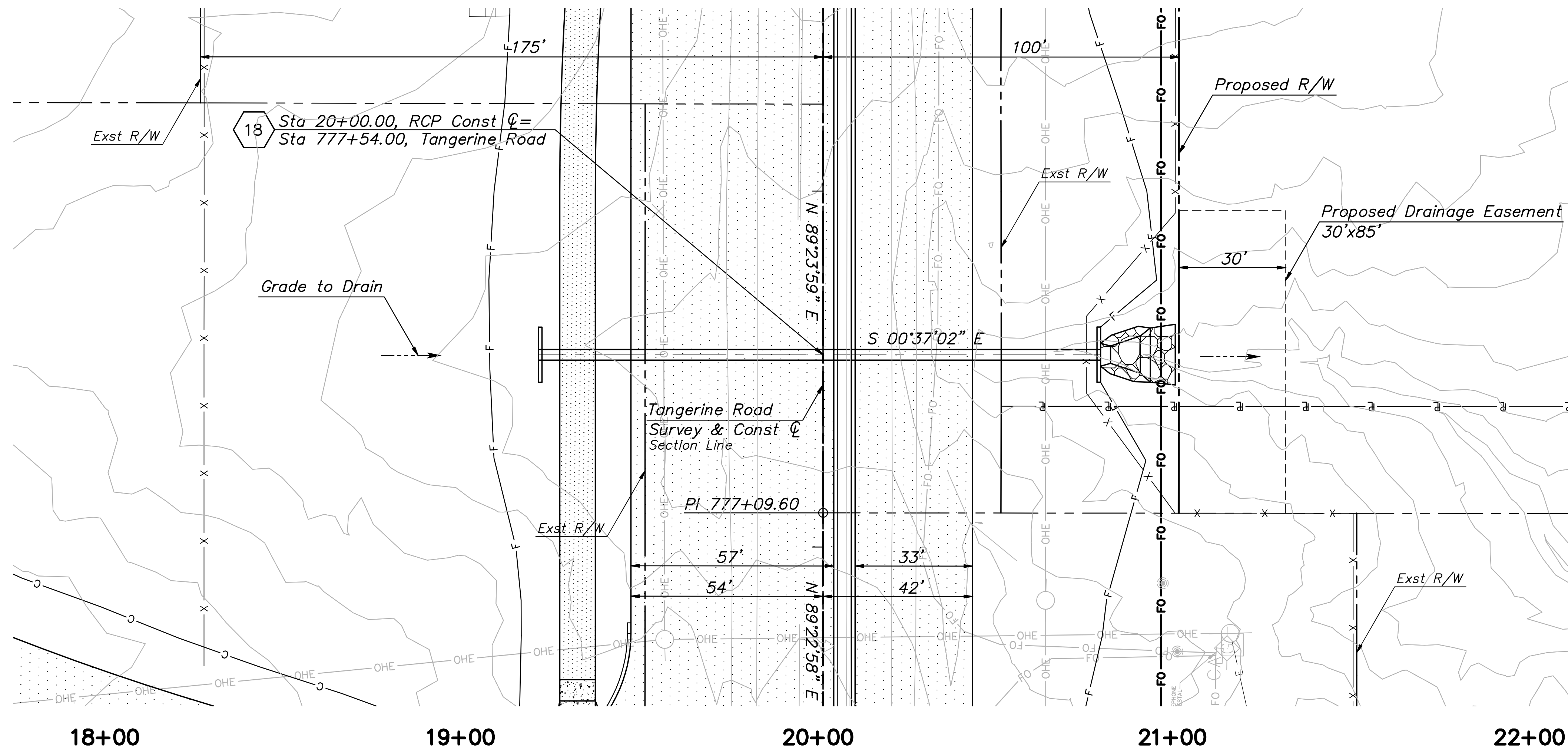
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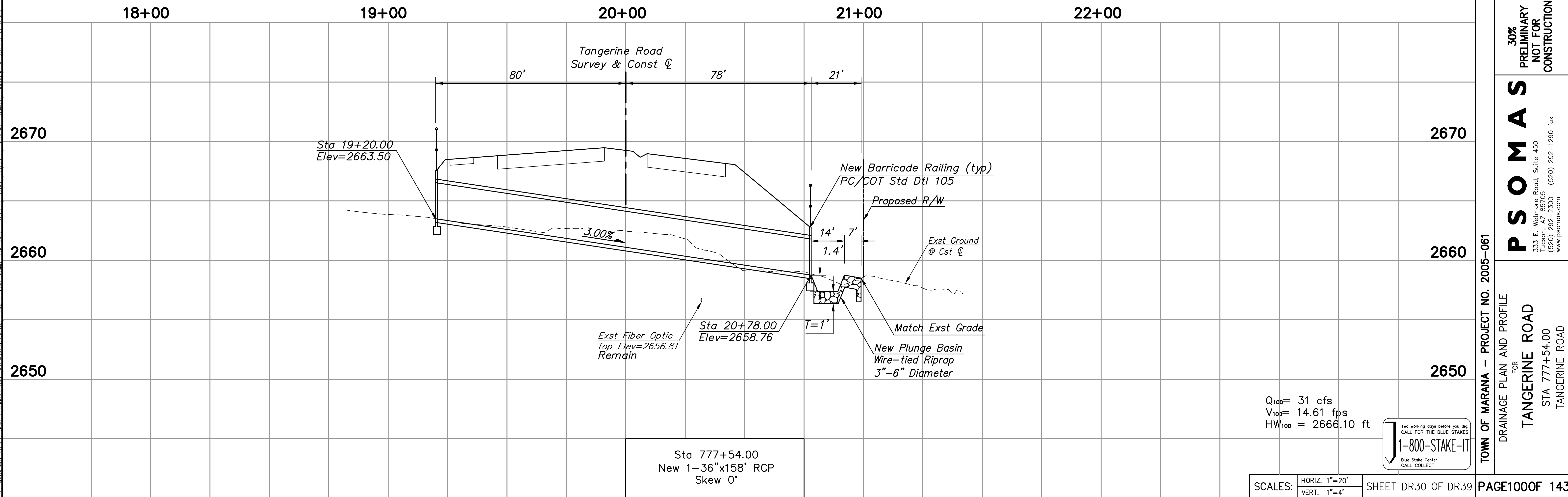
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 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 772+32.00
 TANGERINE ROAD

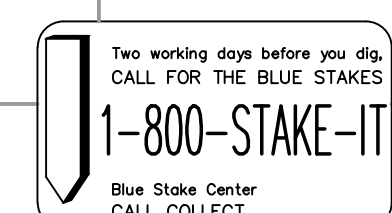


NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls AS shown on the profile.



$Q_{100} = 31$ cfs
 $V_{100} = 14.61$ fps
 $HW_{100} = 2666.10$ ft



Sta 777+54.00
 New 1-36"x158' RCP
 Skew 0°

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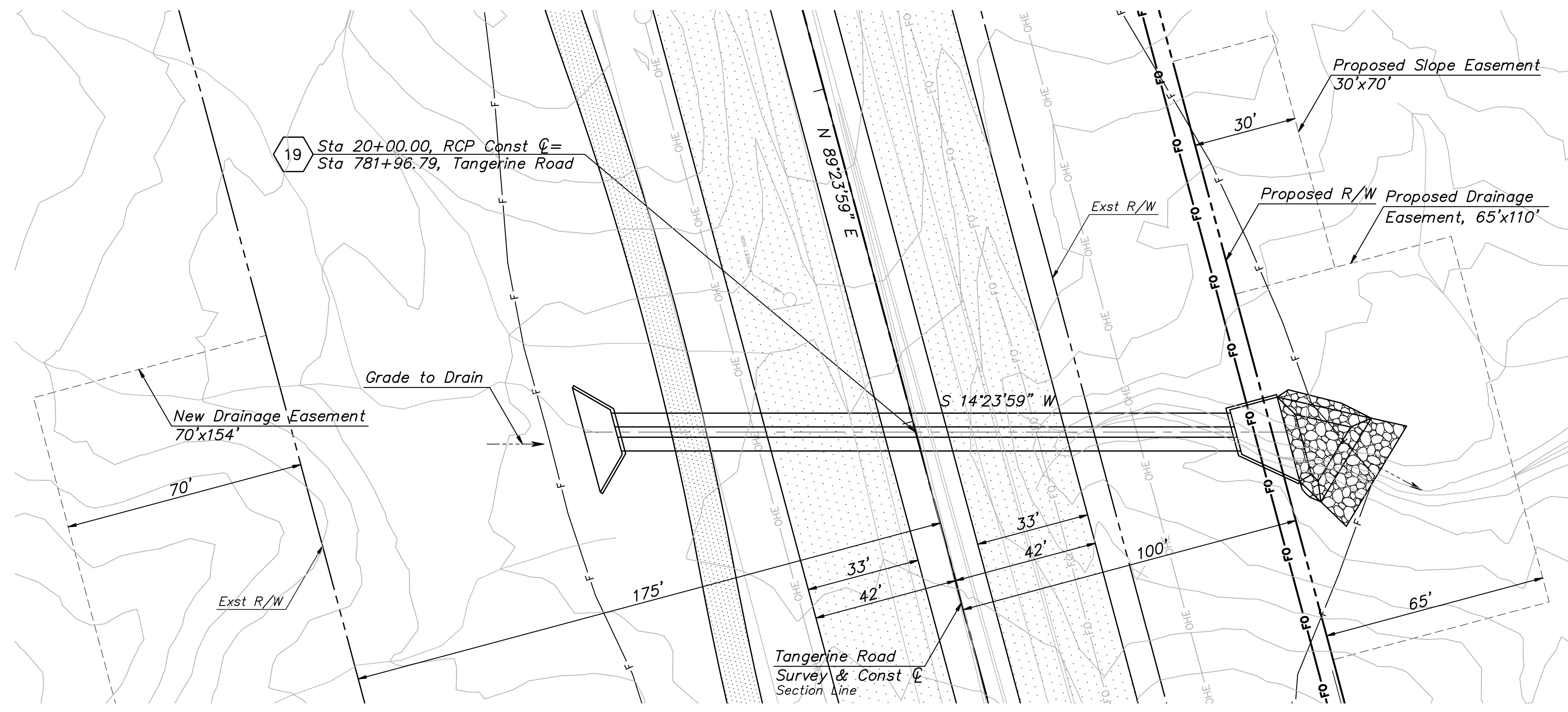
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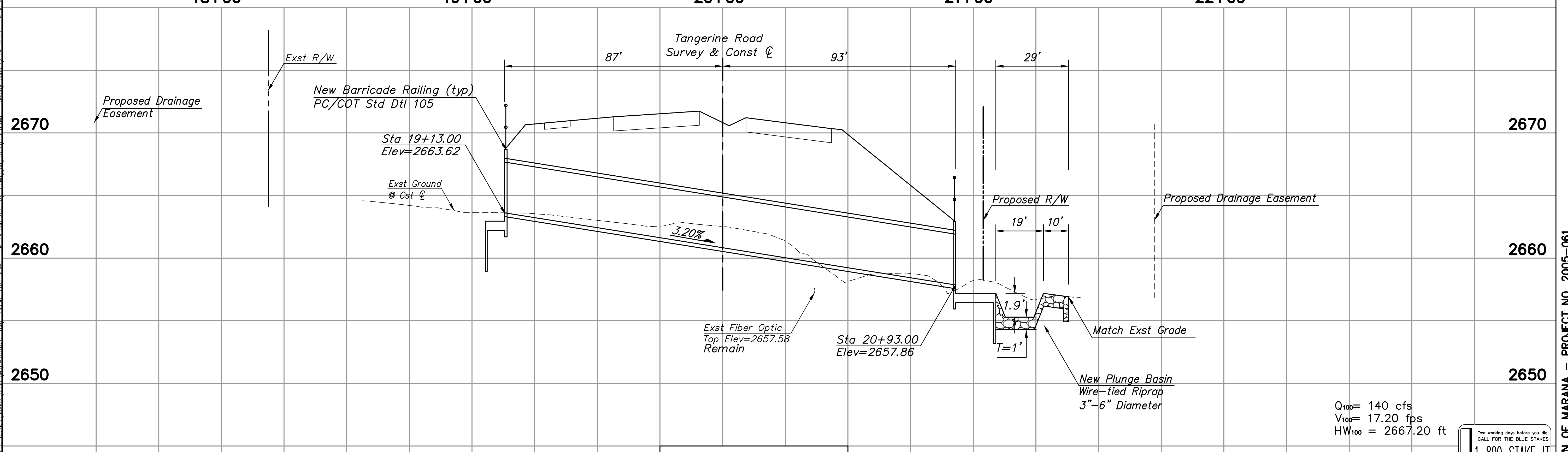
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TANGERINE ROAD
 STA 777+54.00
 TANGERINE ROAD

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NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13, $\theta=45^\circ$; $E=9'$, $F=9'$, $G=9'$.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-11.13, $\theta=50^\circ$; $E=14'-3"$, $F=12'$, $G=0'$.
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Sta 781+96.79
New 2-48"x180' RCP
Skew 15° Rt

$Q_{100} = 140$ cfs
 $V_{100} = 17.20$ fps
 $HW_{100} = 2667.20$ ft



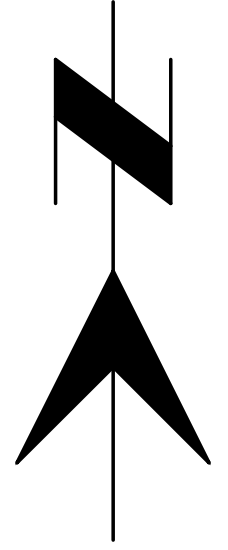
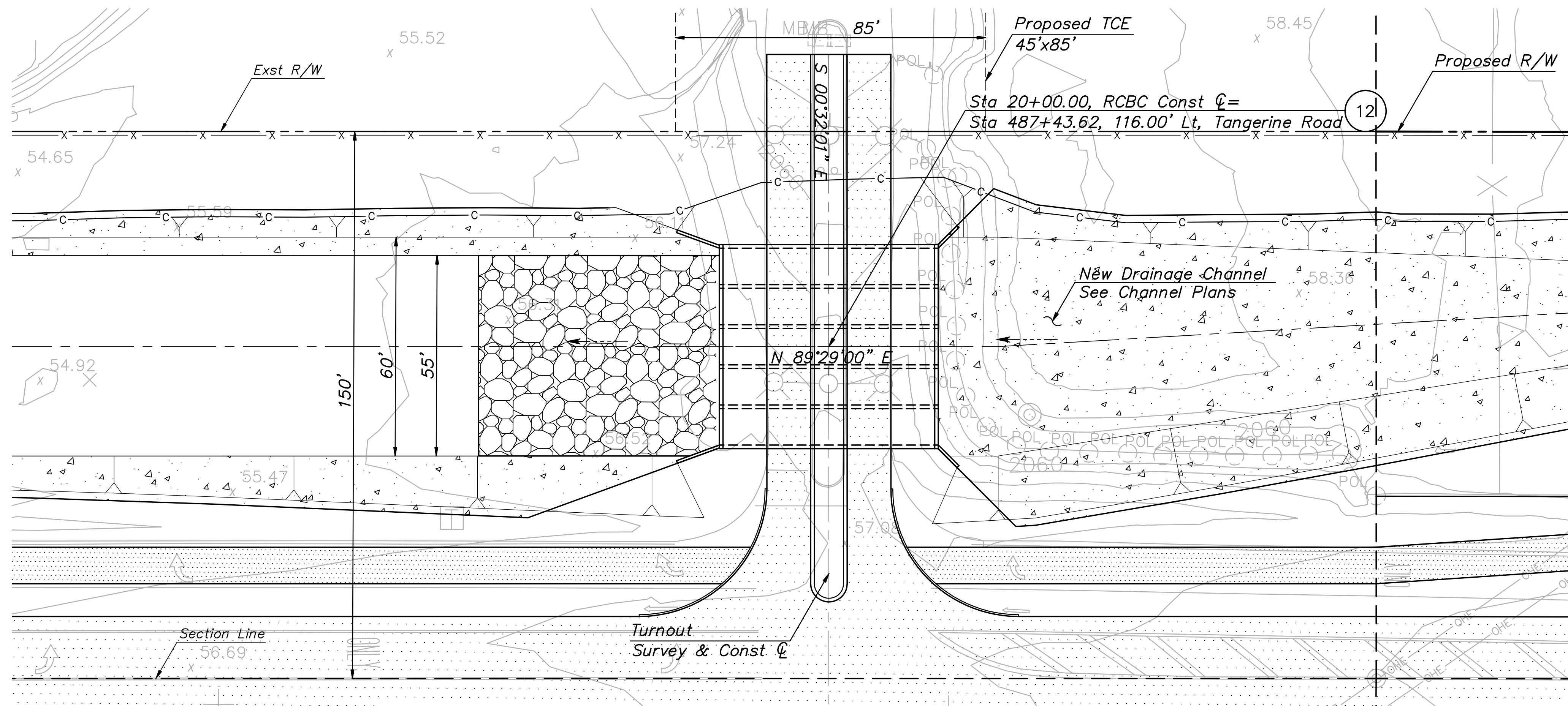
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DRAWN:	CZ	DATE:	12/12
CHECKED:	AA	DATE:	12/12
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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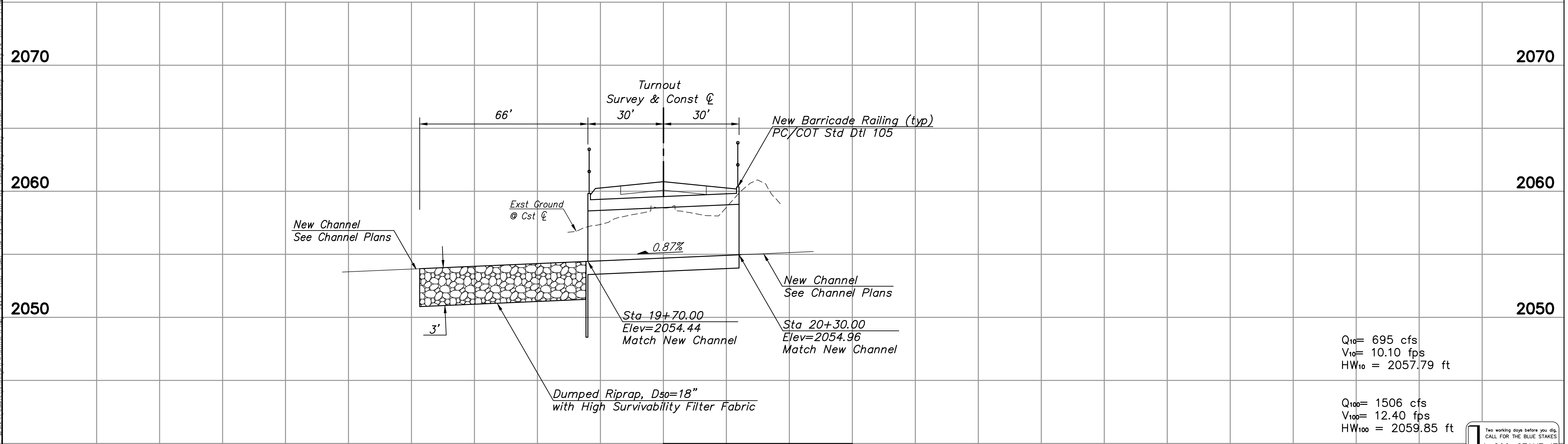
TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 781+96.79
TANGERINE ROAD



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-04.70.
2. Outlet headwall dimensions shall be based on ADOT Std Dwg B-04.50.
3. Boxes shall be constructed per ADOT Std Dwg B-02.50.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Q₁₀ = 695 cfs
V₁₀ = 10.10 fps
HW₁₀ = 2057.79 ft

Q₁₀₀ = 1506 cfs
V₁₀₀ = 12.40 fps
HW₁₀₀ = 2059.85 ft



Sta 487+43.62, 116.00' Lt
New 5-10'x4'x60' RCBC
Skew 0°

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA	DATE:	12/12

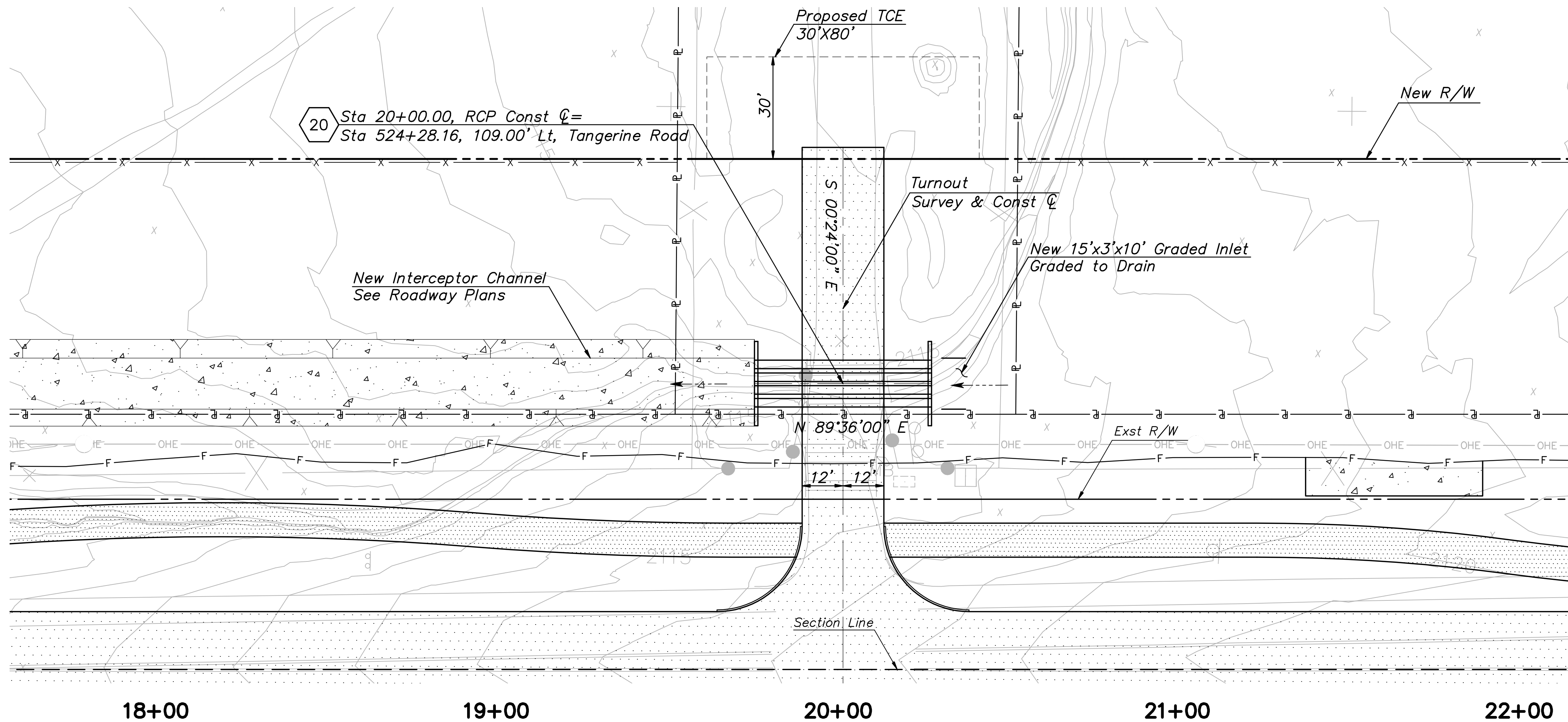
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061

DRAINAGE PLAN AND PROFILE FOR TANGERINE ROAD STA 487+43.62 TANGERINE ROAD



NOTES:

1. Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
4. Barricade railing shall be placed on headwalls as shown on the profile.

18+00

19+00

20+00

21+00

22+00

2130

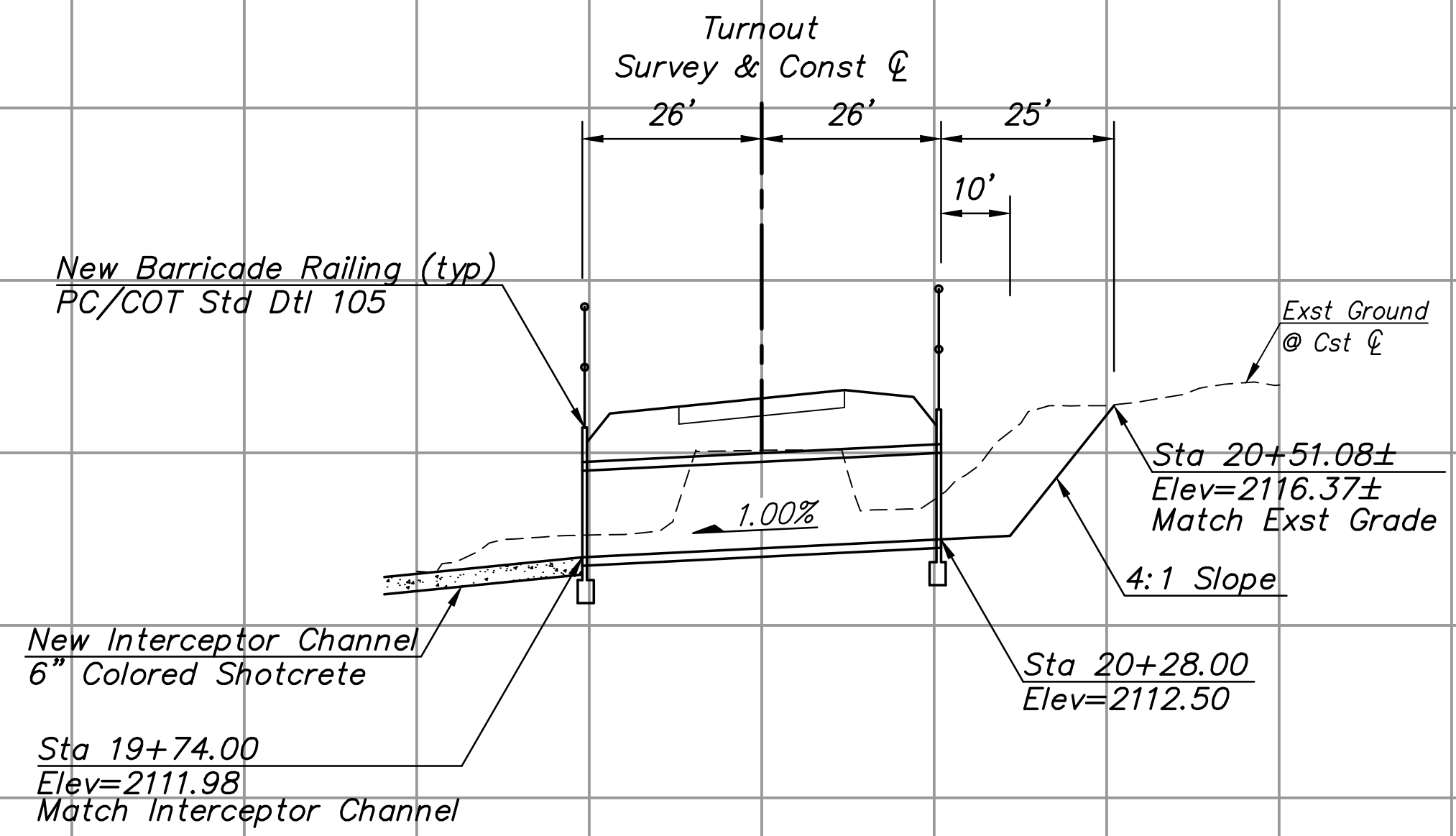
2130

2120

2120

2110

2110



Q₁₀₀ = 156 cfs
 V₁₀₀ = 10.20 fps
 HW₁₀₀ = 2116.10 ft



Sta 524+28.16, 109.00' Lt
 New 4-30"x52' RCP
 Skew 0°

SCALES: HORIZ. 1"=20'
 VERT. 1"=4'

TOWN OF MARANA - PROJECT NO. 2005-061

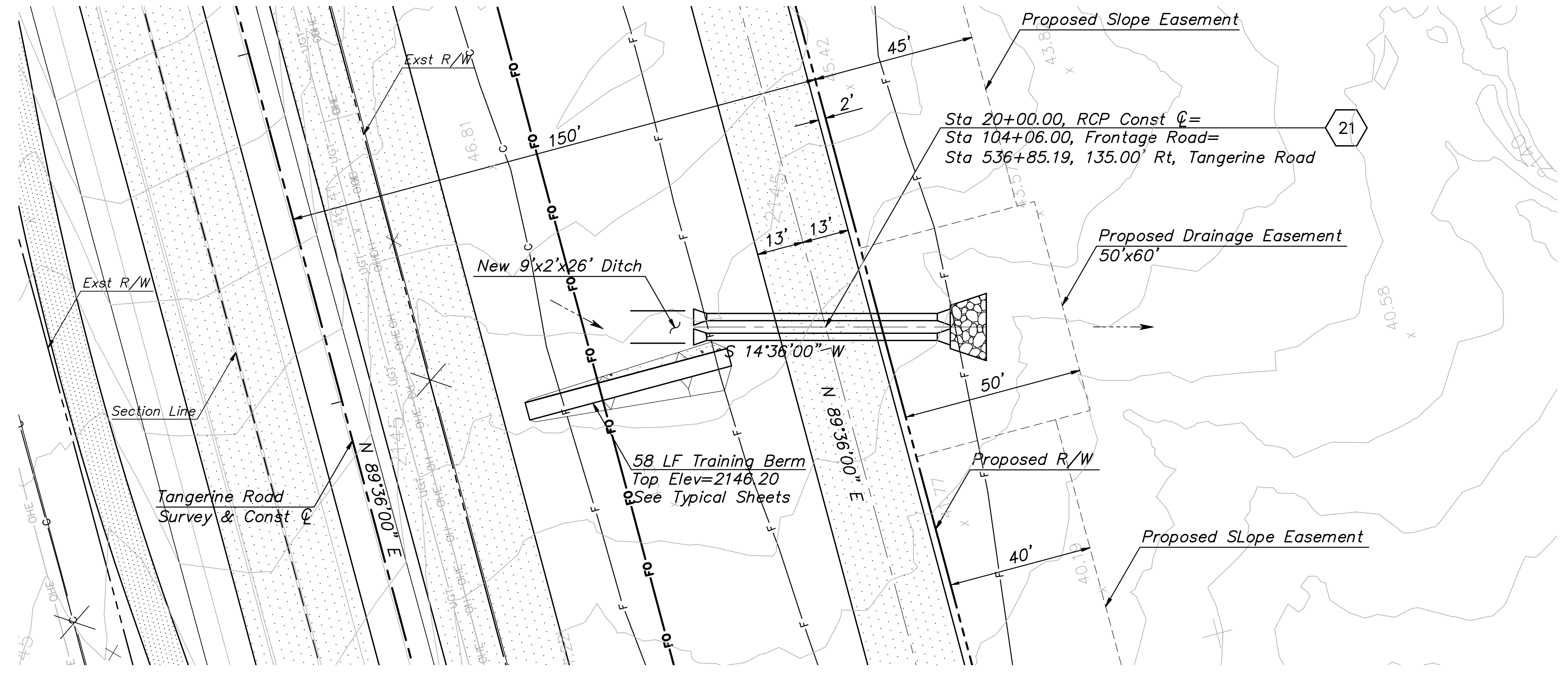
DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 524+28.16
 TANGERINE ROAD

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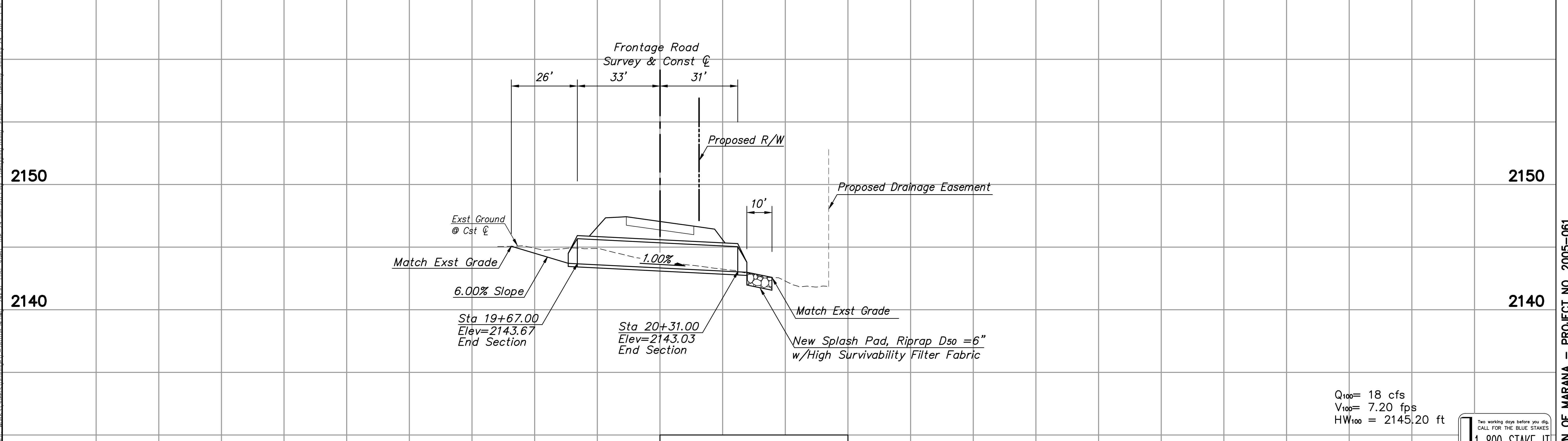
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PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE



- NOTES:
- End sections shall be based on ADOT Std Dwg C-13.20.
 - Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
 - Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.

18+00 19+00 20+00 21+00 22+00



Sta 104+06.00
New 2-24"x64' RCP
Skew 15' Rt

Q₁₀₀ = 18 cfs
V₁₀₀ = 7.20 fps
HW₁₀₀ = 2145.20 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

DESIGNED:	CZ
DRAWN:	CZ
CHECKED:	AA
PROJ. ENG.:	AA

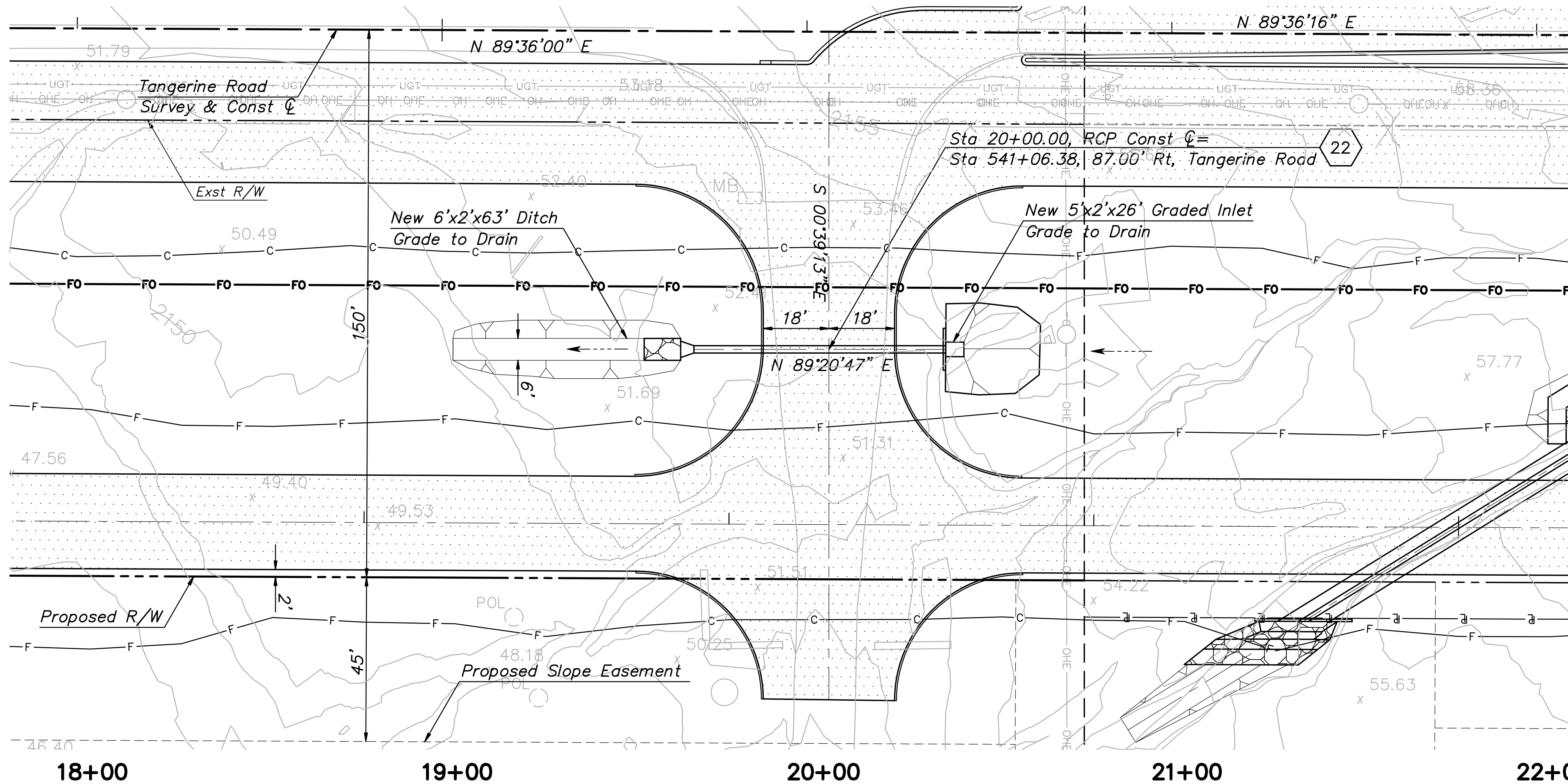
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061

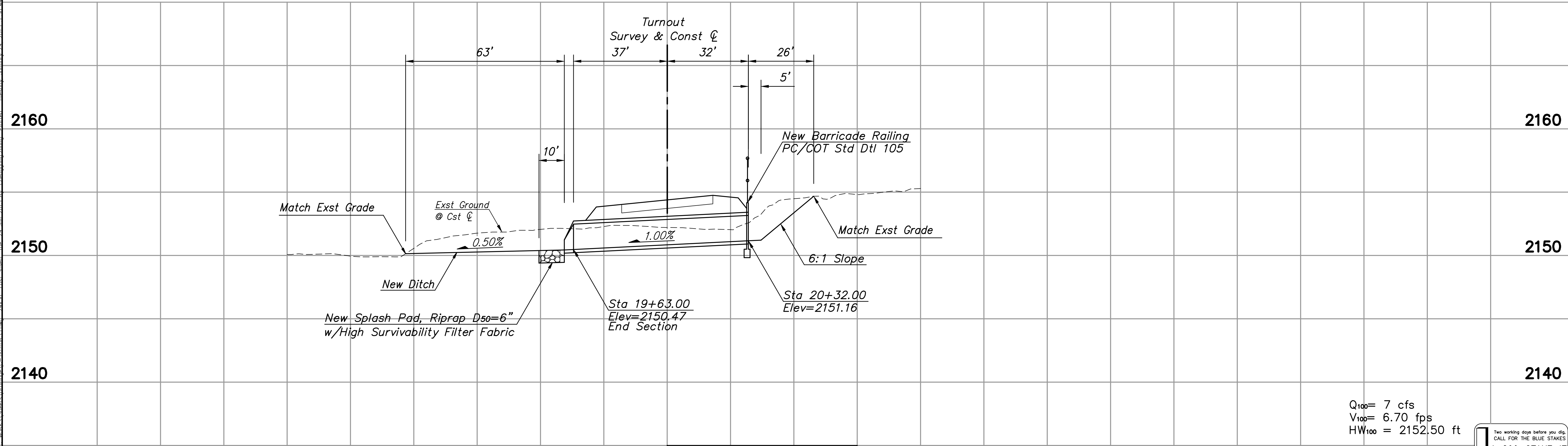
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 104+06.00
FRONTAGE ROAD



NOTES:

1. Headwall shall be based on ADOT Std Dwg B-11.11.
2. End section shall be based on ADOT Std Dwg C-13.20.
3. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
4. Ditch & Graded Inlet dimensions shall be based on ADOT Std Dwg C-03.10 with 3:1 slopes.

T:\TJMA09\0401\PUBLIC\WORKS\Sheets\Drawings\AC-1600\DR35.dwg - 2/6/16 - Last Saved: Tue, 29 Jan 2013 10:35:44 AM



Sta 541+06.38, 87.00' Rt
New 1-24"x69' RCP
Skew 0°

Q₁₀₀ = 7 cfs
V₁₀₀ = 6.70 fps
HW₁₀₀ = 2152.50 ft



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

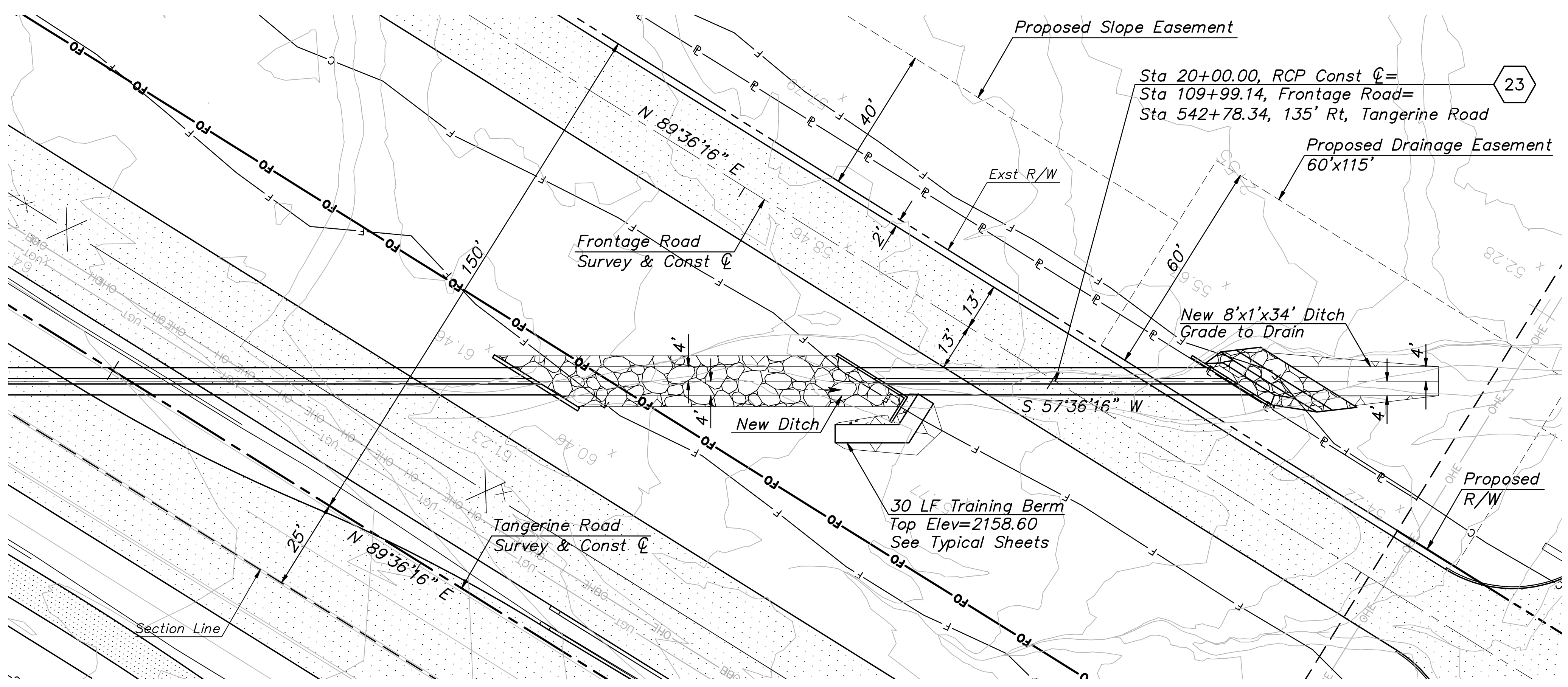
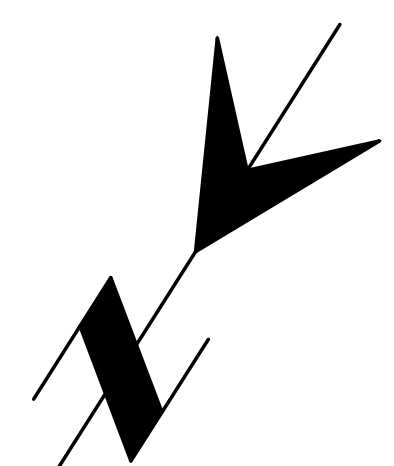
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PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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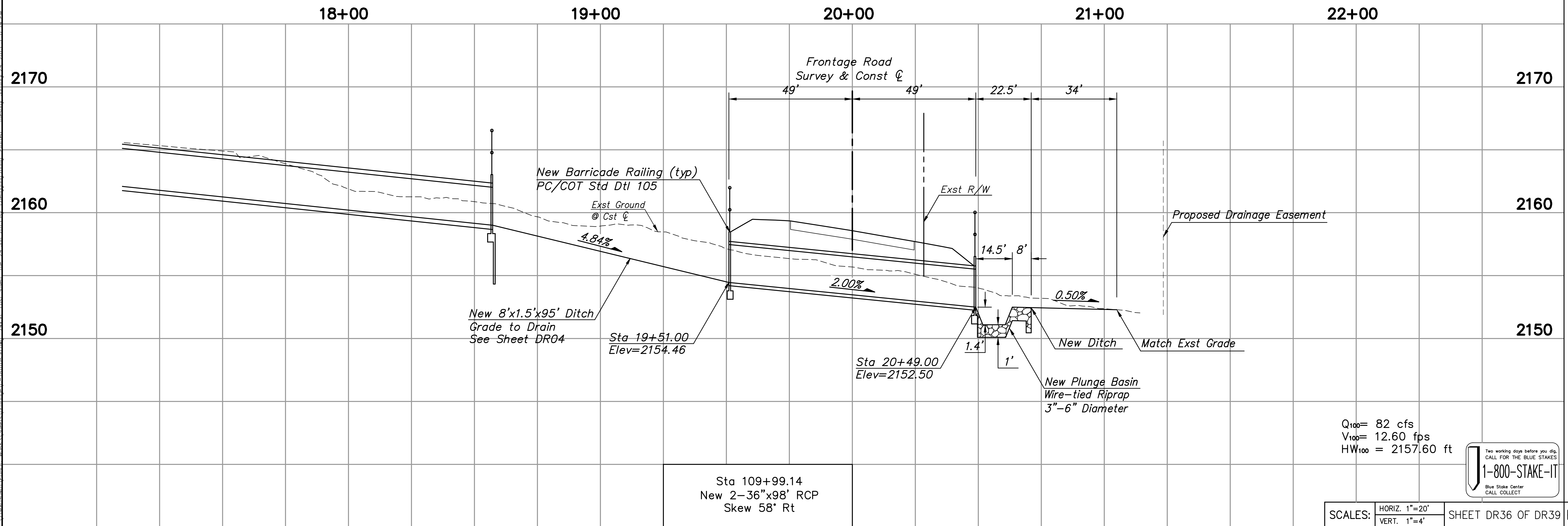
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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 541+06.38
TANGERINE ROAD



NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 3:1 slopes.
4. Barricade railing shall be placed on headwalls as shown on the profile.



Q₁₀₀ = 82 cfs
 V₁₀₀ = 12.60 fps
 HW₁₀₀ = 2157.60 ft

Sta 109+99.14
 New 2-36"x98' RCP
 Skew 58° Rt



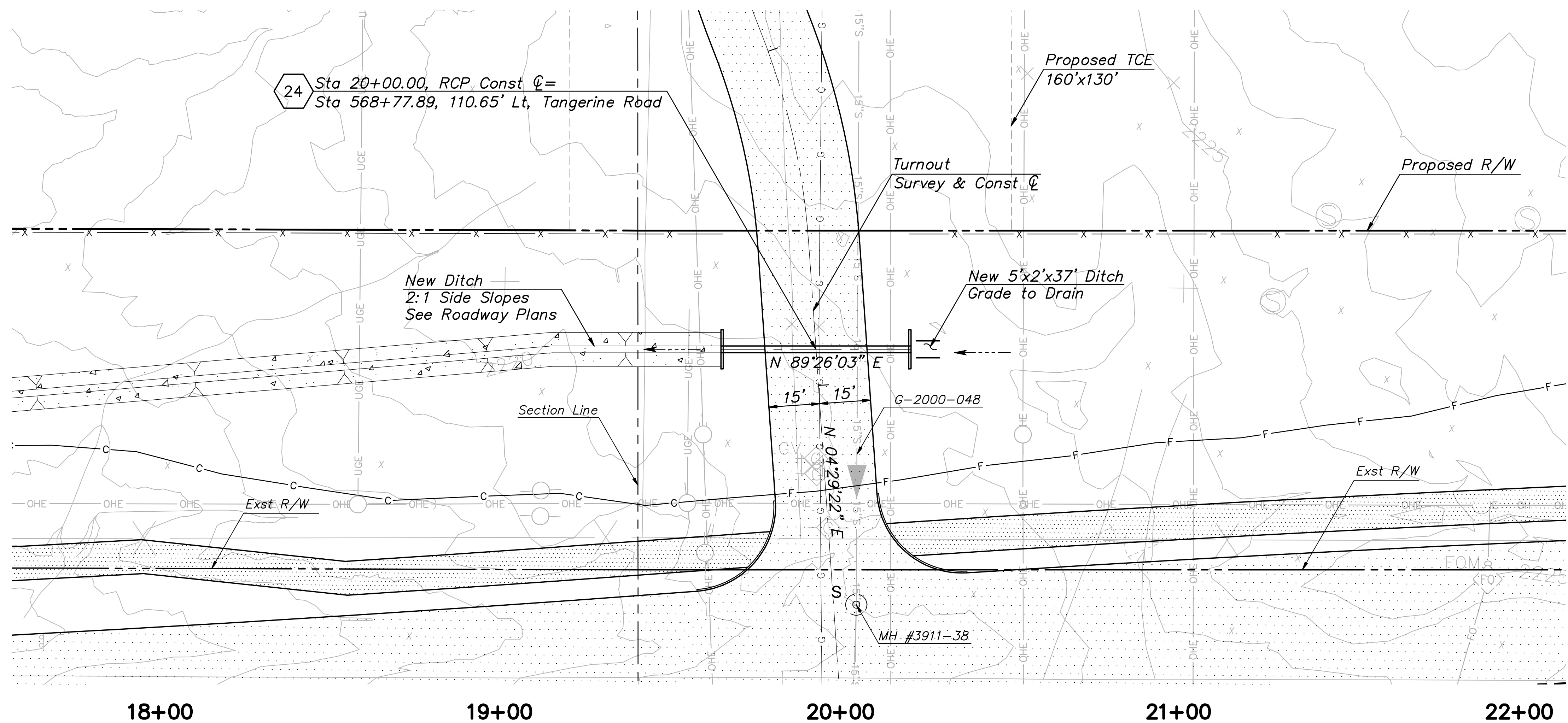
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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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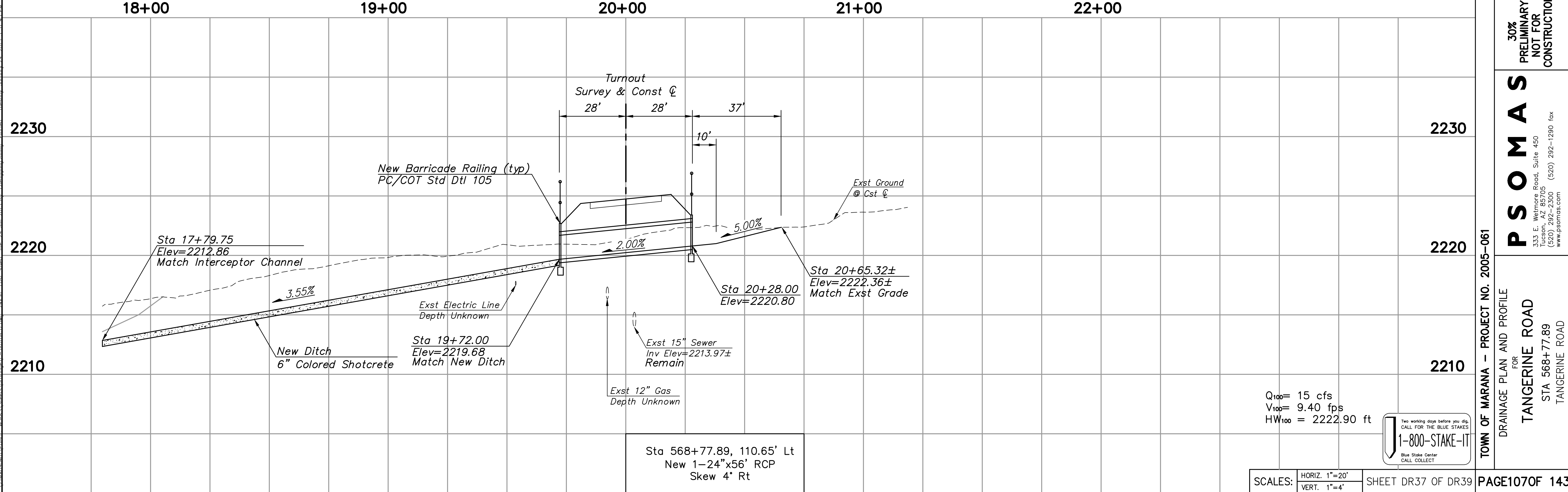
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TOWN OF MARANA - PROJECT NO. 2005-061
 DRAINAGE PLAN AND PROFILE
 FOR
TANGERINE ROAD
 STA 109+99.14
 FRONTAGE ROAD



NOTES:

1. Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 3:1 slopes unless otherwise noted.
4. Barricade railing shall be placed on headwalls as shown on the profile.



Sta 568+77.89, 110.65' Lt
New 1-24"x56' RCP
Skew 4° Rt

Q₁₀₀ = 15 cfs
V₁₀₀ = 9.40 fps
HW₁₀₀ = 2222.90 ft



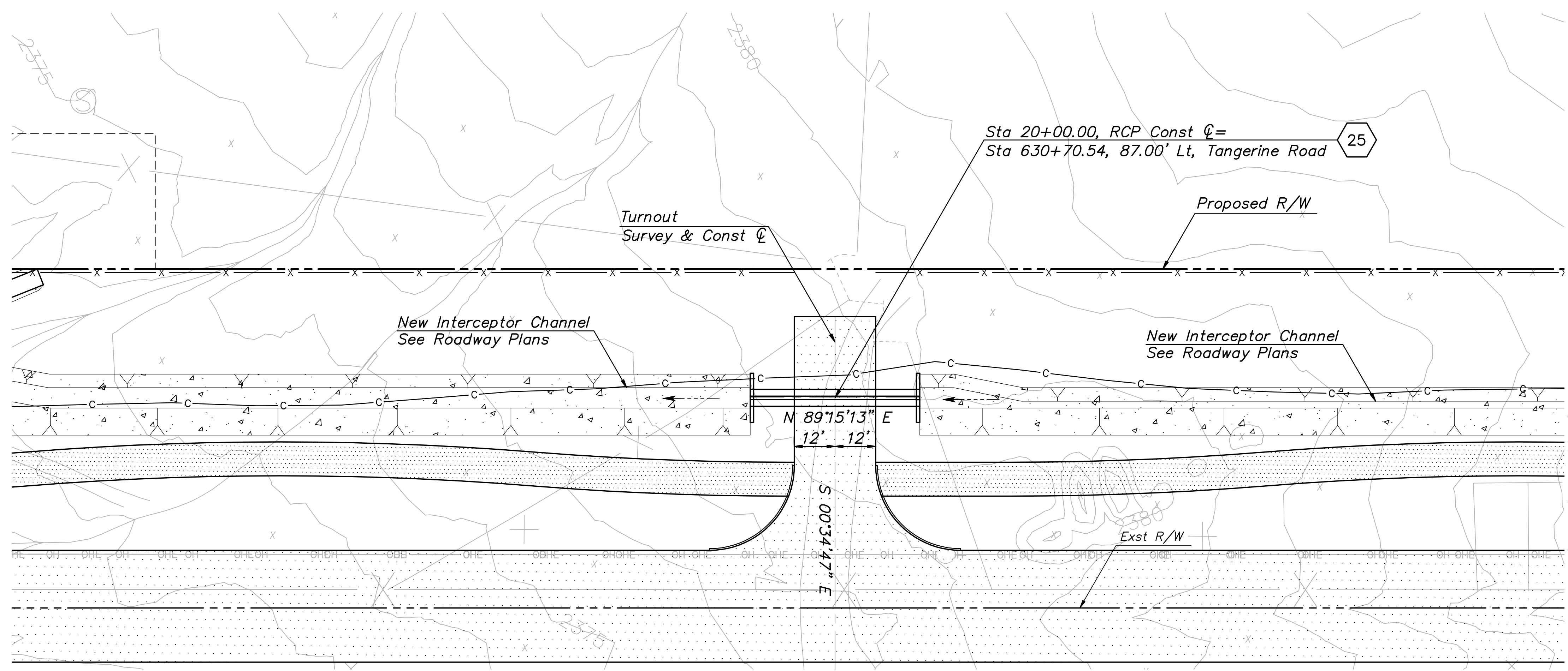
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PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE FOR TANGERINE ROAD
STA 568+77.89 TANGERINE ROAD



Sta 20+00.00, RCP Const ϕ =
Sta 630+70.54, 87.00' Lt, Tangerine Road

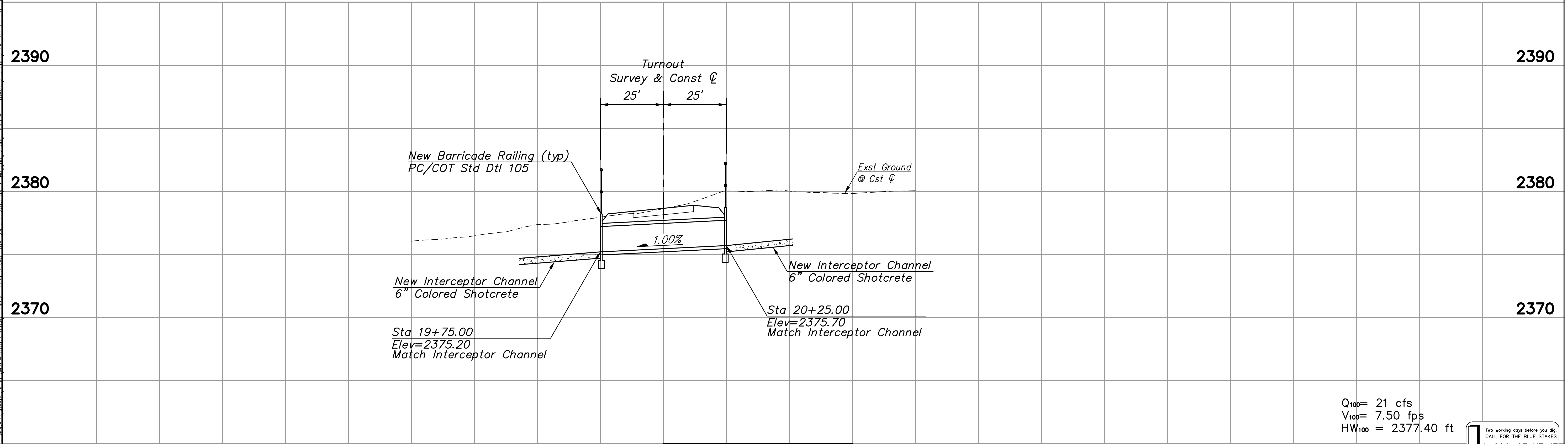
New Interceptor Channel
See Roadway Plans

New Interceptor Channel
See Roadway Plans

NOTES:

1. Inlet & Outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Barricade railing shall be placed on headwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 630+70.54, 87.00' Lt
New 2-24"x50' RCP
Skew 0°

Q₁₀₀ = 21 cfs
V₁₀₀ = 7.50 fps
HW₁₀₀ = 2377.40 ft



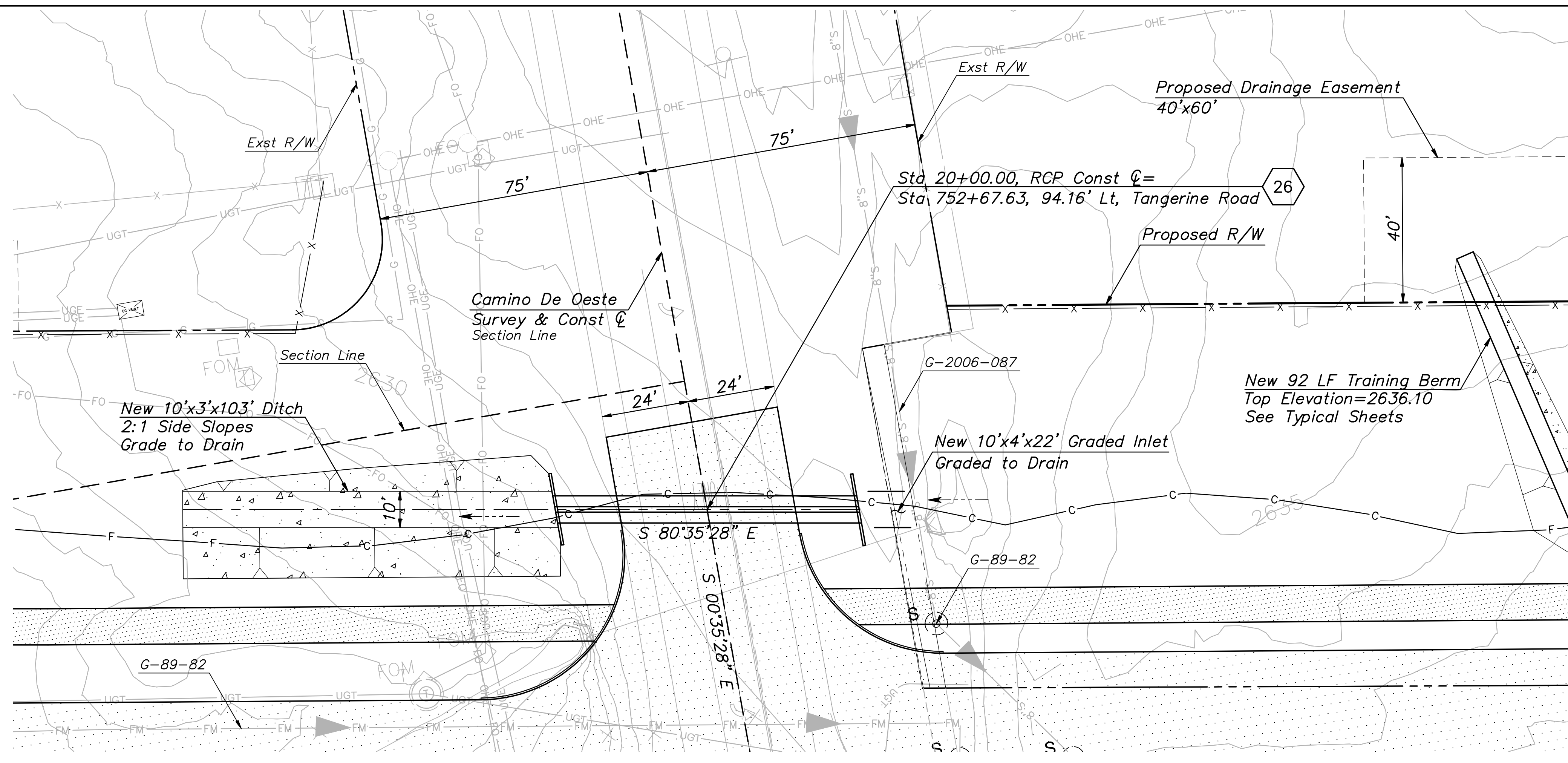
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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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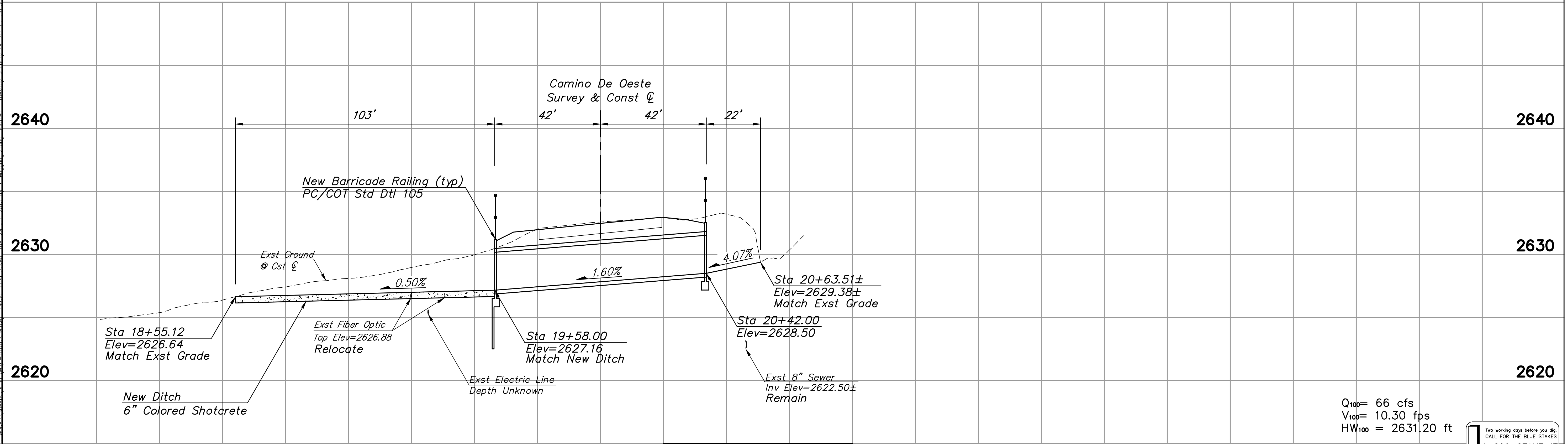
TOWN OF MARANA - PROJECT NO. 2005-061
DRAINAGE PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 630+70.54
TANGERINE ROAD



NOTES:

1. Inlet & outlet headwall dimensions shall be based on ADOT Std Dwg B-11.11.
2. Pipes shall be installed per ADOT Std Dwg C-13.10 and C-13.15.
3. Ditch dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes unless otherwise noted.
4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00



Sta 752+67.63, 94.16' Lt
 Remove Exst 1-36" RCP
 New 2-36"x84" RCP
 Skew 10' Rt

Q₁₀₀ = 66 cfs
 V₁₀₀ = 10.30 fps
 HW₁₀₀ = 2631.20 ft



SCALES: HORIZ. 1"=20'
 VERT. 1"=4' SHEET DR39 OF DR39

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	CHECKED:	AA
PROJECT:	AA	PROJ. ENG.:	AA

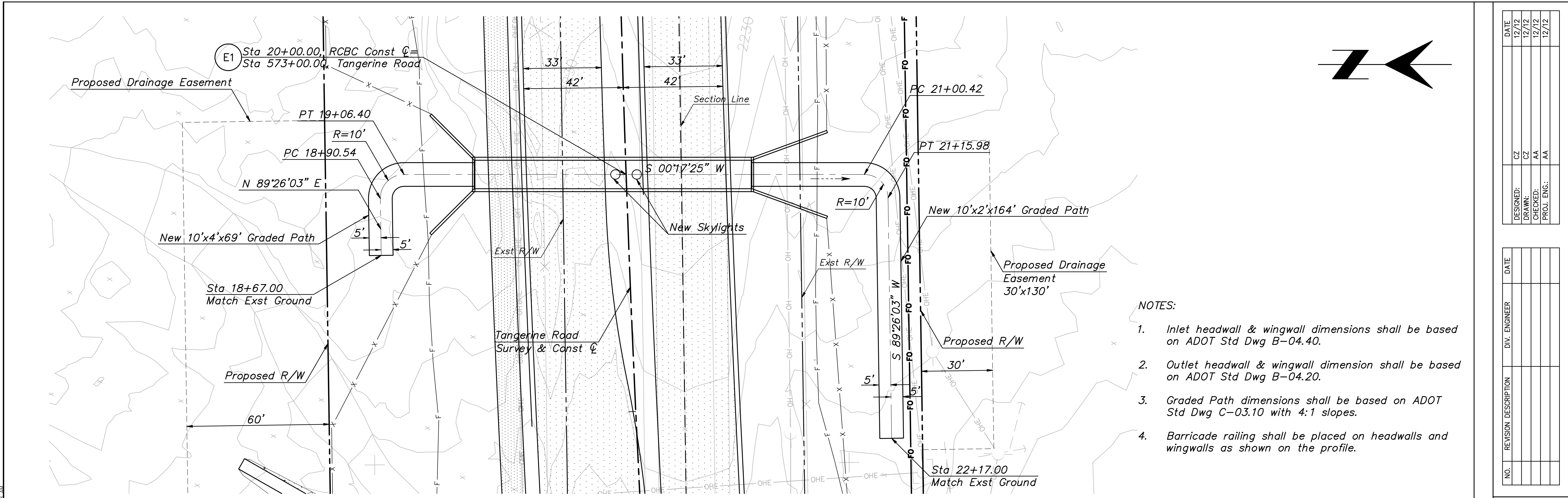
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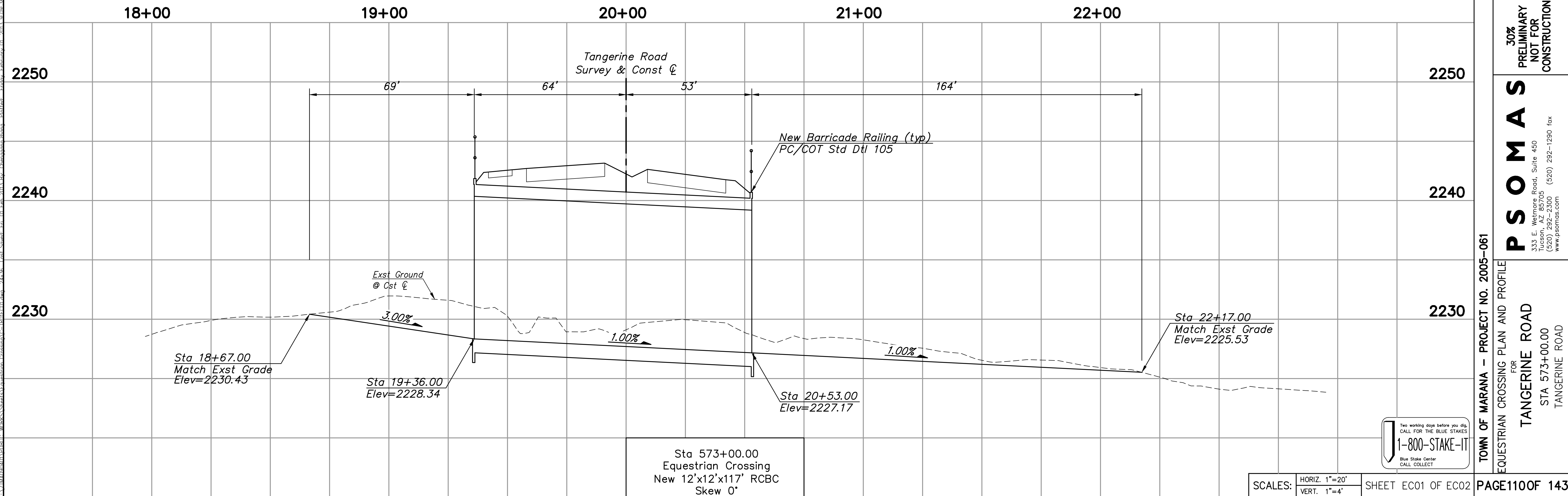
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TOWN OF MARANA - PROJECT NO. 2005-061

DRAINAGE PLAN AND PROFILE FOR
TANGERINE ROAD
 STA 752+67.63
 TANGERINE ROAD



- NOTES:
1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-04.40.
 2. Outlet headwall & wingwall dimension shall be based on ADOT Std Dwg B-04.20.
 3. Graded Path dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
 4. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.



Sta 573+00.00
Equestrian Crossing
New 12'x12'x117' RCBC
Skew 0°

Two working days before you dig,
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Blue Stake Center
CALL COLLECT

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FOR
TANGERINE ROAD
STA 573+00.00
TANGERINE ROAD

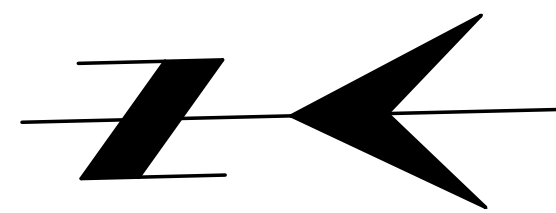
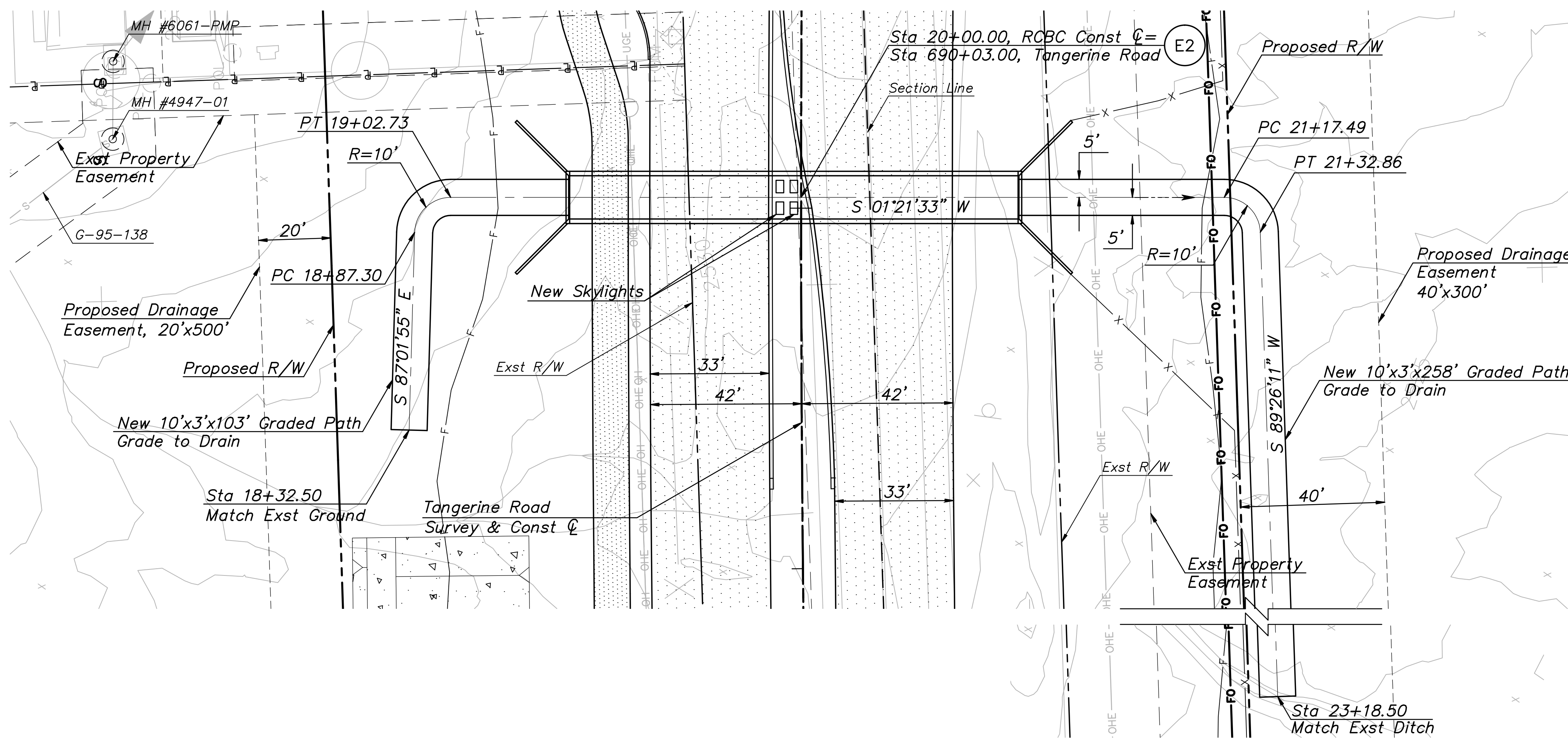
TOWN OF MARANA - PROJECT NO. 2005-061
EQUESTRIAN CROSSING PLAN AND PROFILE

DESIGNED: CZ
DRAWN: CZ
CHECKED: AA
PROJ. ENG.: AA

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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

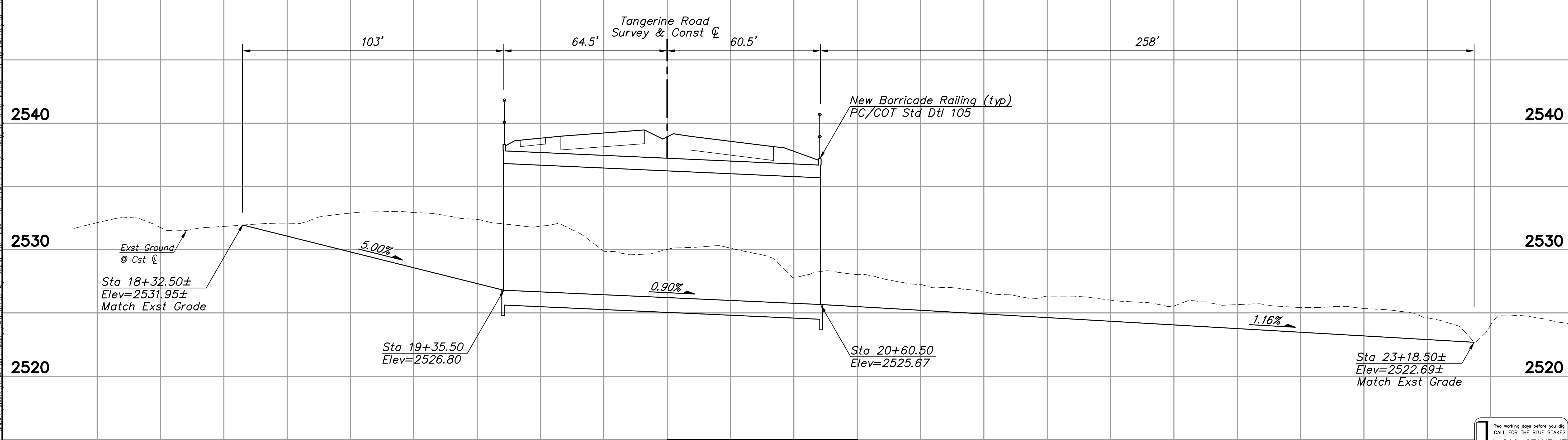
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DRAWN:	CZ	CZ	AA	AA
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PROJ. ENG.:	AA	AA	AA	AA



NOTES:

1. Inlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-04.40.
2. Outlet headwall & wingwall dimensions shall be based on ADOT Std Dwg B-04.20.
3. Boxes shall be constructed per ADOT Std Dwg B-02.10.
4. Graded Path dimensions shall be based on ADOT Std Dwg C-03.10 with 4:1 slopes.
5. Barricade railing shall be placed on headwalls and wingwalls as shown on the profile.

18+00 19+00 20+00 21+00 22+00 23+00



Sta 690+03.00
Equestrian Crossing
New 1-12'x10'x125' RCBC
Skew 0°



SCALES: HORIZ. 1"=20'
VERT. 1"=4'

DESIGNED:	CZ	DATE:	12/12
DRAWN:	CZ	DATE:	12/12
CHECKED:	AA	DATE:	12/12
PROJ. ENG.:	AA	DATE:	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

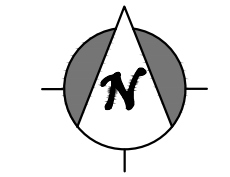
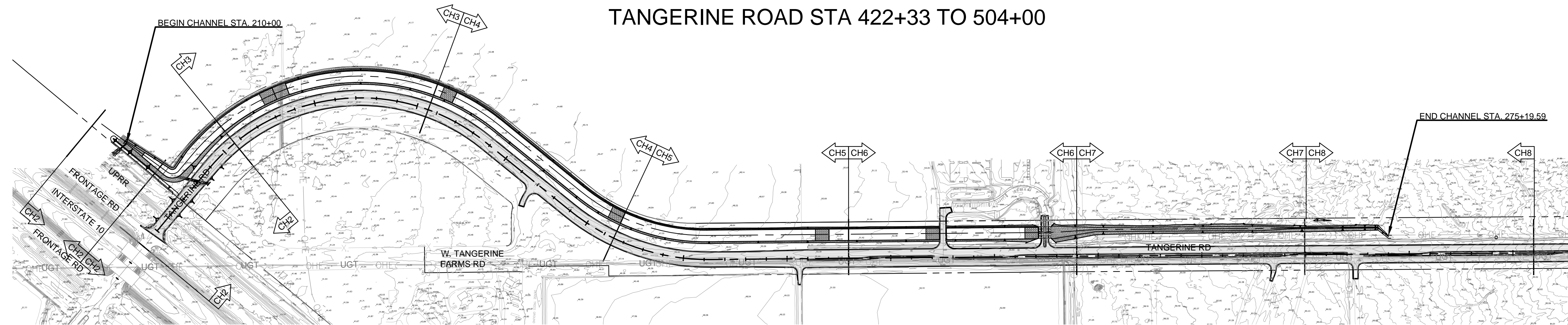
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TOWN OF MARANA - PROJECT NO. 2005-061
EQUESTRIAN CROSSING PLAN AND PROFILE
FOR
TANGERINE ROAD
STA 690+03.00
TANGERINE ROAD

TANGERINE ROAD WEST END REGIONAL INTERCEPTOR CHANNEL

CHANNEL STA 210+00 TO STA 275+19.59
TANGERINE ROAD STA 422+33 TO 504+00



SCALE: 1"=300'

PLAN SHEET INDEX MAP

SHEET INDEX		
PG NO.	SHEET NO.	DESCRIPTION
112	CH1	COVER SHEET & TYP CHANNEL CROSS-SECTIONS
113 - 119	CH2 - CH8	CHANNEL PLAN & PROFILE

LEGEND

WSE	WATER SURFACE ELEVATION
WWF	WELDED WIRE FABRIC
TOB	TOP OF BERM
---	RIGHT OF WAY

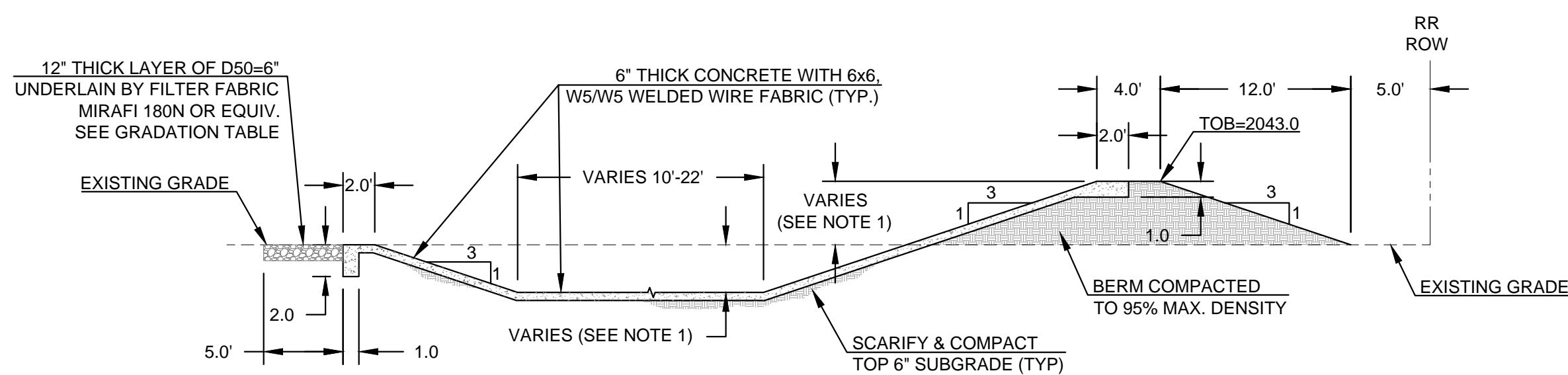
CHANNEL STATIONS	DISCHARGE RANGE (CFS)	
	10-YR	100-YR
210+00 TO 213+00	250 - 550	470 - 1200
213+00 TO 232+00	550 - 850	1200 - 2200
232+00 TO 256+00	850 - 900	1700 - 1900
256+00 TO 265+00	370 - 900	1100 - 1900
265+00 TO 274+53	30 - 370	430-1100

RIPRAP GRADATION

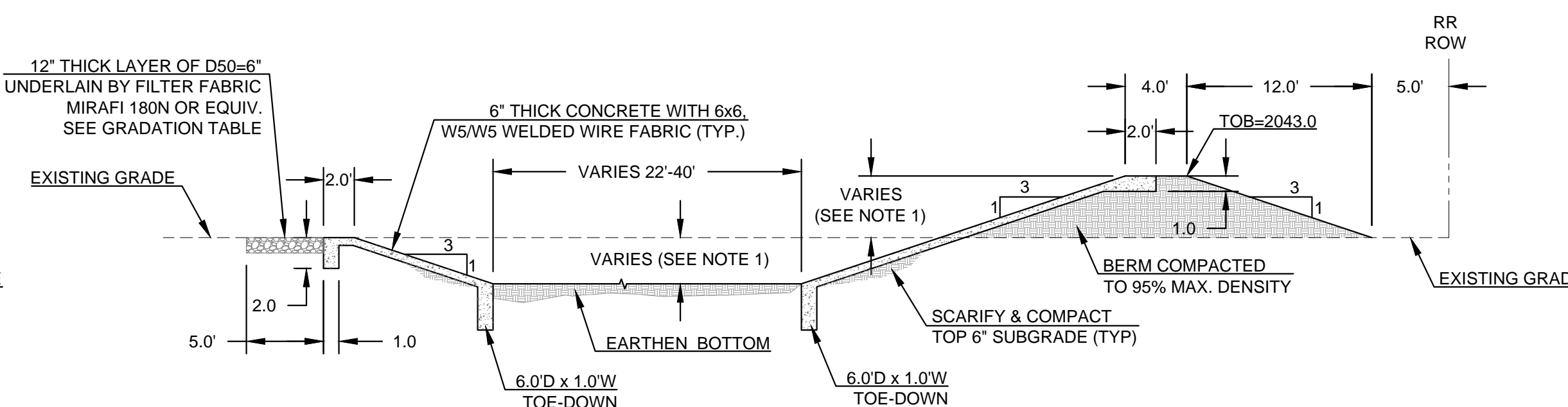
SIZE	% PASSING
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1.50 D50	85-70
1.00 D50	50-30
0.67 D50	15-5
0.33 D50	5-0

NOTES:

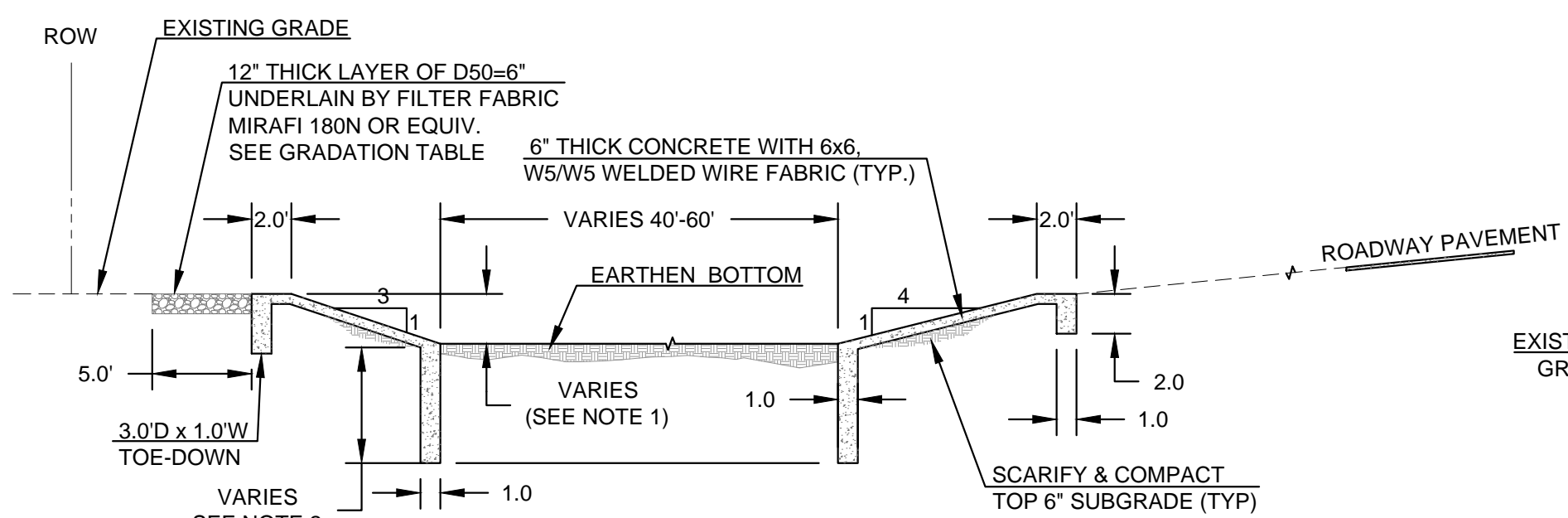
- BERM HEIGHT & CHANNEL DEPTHS VARY. SEE CHANNEL PROFILE SHEETS CH2-CH8 FOR STA & ELEVATION.
- TOE-DOWN DEPTHS VARY. SEE CHANNEL PROFILE SHEETS CH2-CH8 FOR STA & ELEVATION.



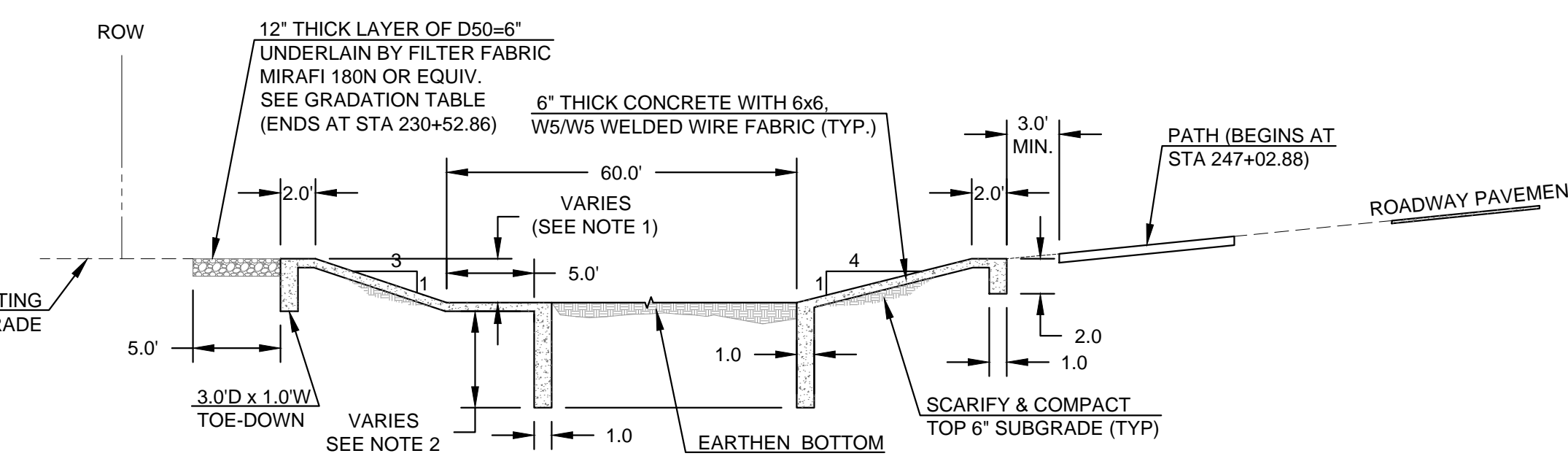
TYP CHANNEL CROSS-SECTION A-A
STA. 210+00.00 TO 211+00.00
N.T.S.



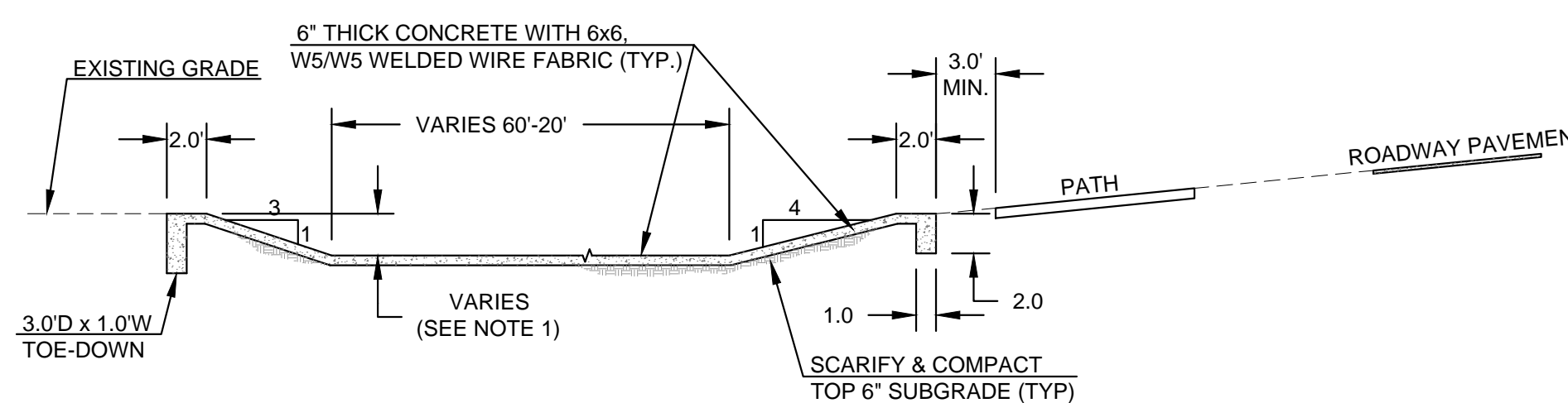
TYP CHANNEL CROSS-SECTION B-B
STA. 211+00.00 TO 212+73.97
N.T.S.



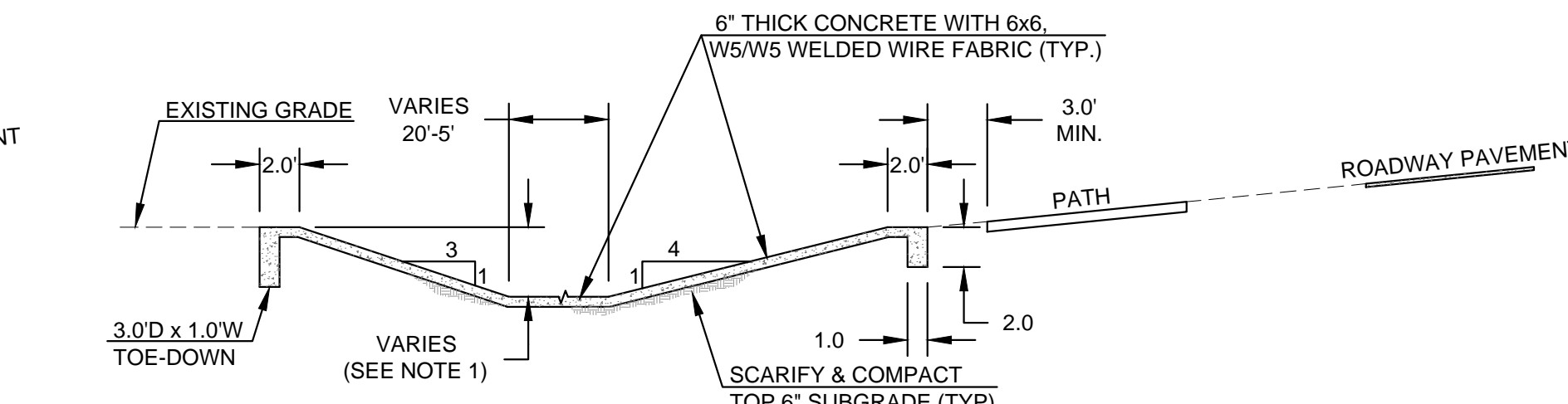
TYP CHANNEL CROSS-SECTION C-C
STA 212+73.97 TO STA 219+70.00
N.T.S.



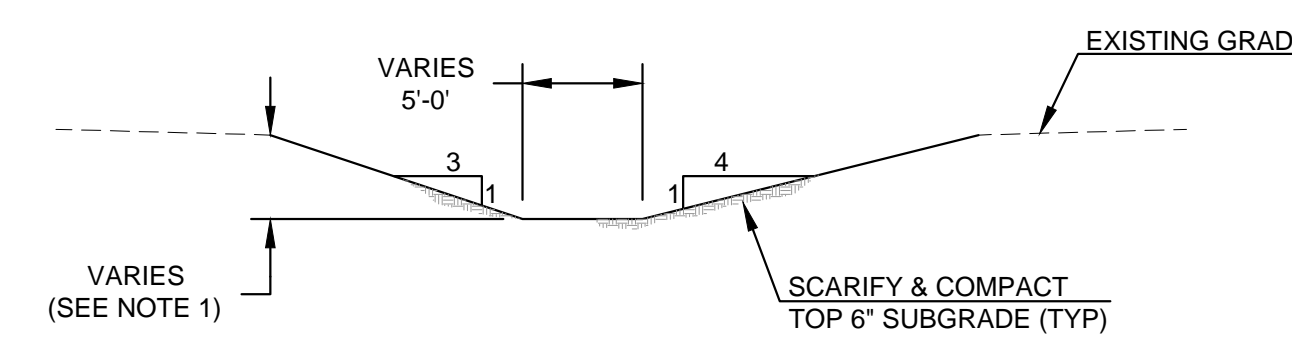
TYP CHANNEL CROSS-SECTION D-D
STA 219+70.00 TO STA 258+16.00
N.T.S.



TYP CHANNEL CROSS-SECTION E-E
STA 258+16.00 TO STA 269+02.98
N.T.S.



TYP CHANNEL CROSS-SECTION F-F
STA 269+02.98 TO STA 274+52.98
N.T.S.



TYP CHANNEL CROSS-SECTION G-G
STA 274+52.98 TO STA 275+19.59
N.T.S.

DATE	DESIGNED:	DRAWN:	CHECKED:	PROJ. ENG.:
01/13	JKW	CRB	JCC	JKW
01/13				
01/13				

NO.	REVISION	DESCRIPTION	DIV. ENGINEER	DATE

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CMG DRAINAGE ENGINEERING, INC.
3555 N. Mountain Ave. Tucson, Arizona 85719
Phone (520) 882-4244 Fax (520) 888-1421

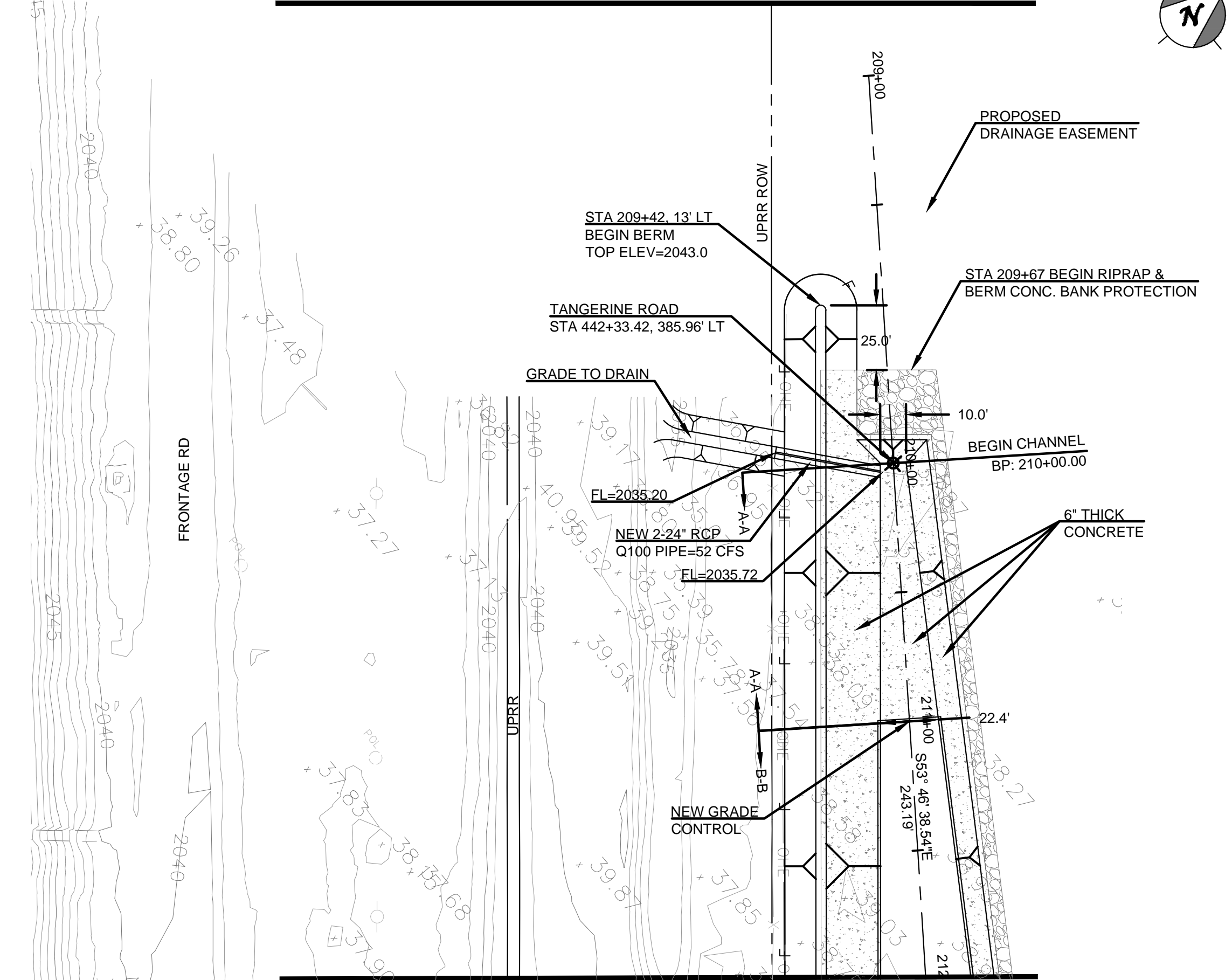
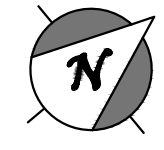
TOWN OF MARANA - PROJECT NO. 2005-061

CHANNEL LOCATION & TYPICAL DETAILS FOR TANGERINE ROAD WEST END REGIONAL CHANNEL STA 210+00 TO STA 275+19.6



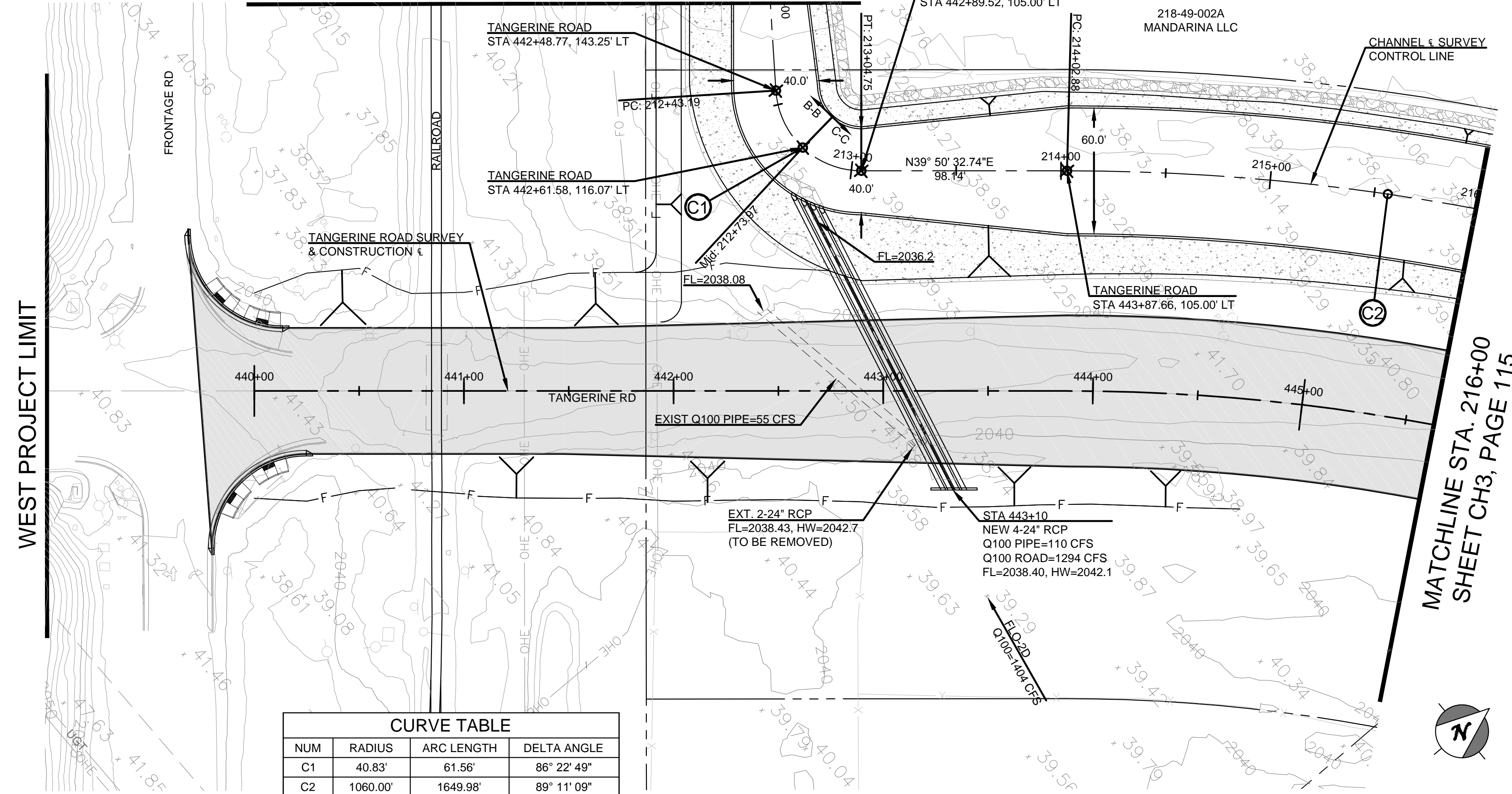
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NORTH PROJECT LIMIT



MATCHLINE STA. 212+00 THIS SHEET RIGHT

MATCHLINE STA. 212+00 THIS SHEET LEFT



MATCHLINE STA. 216+00 SHEET CH3, PAGE 115

CURVE TABLE

NUM	RADIUS	ARC LENGTH	DELTA ANGLE
C1	40.83'	61.56'	86° 22' 49"
C2	1060.00'	1649.98'	89° 11' 09"

209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00

2050

2050

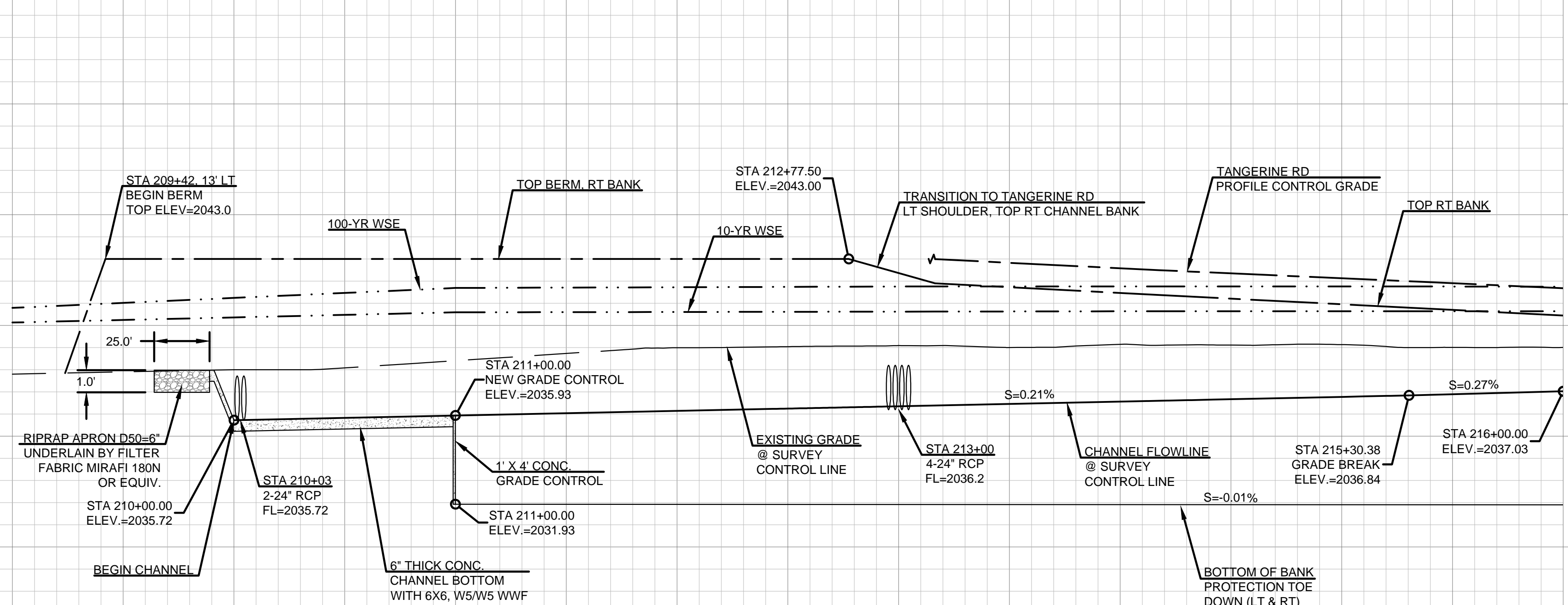
2040

2040

2030

2030

2020



SCALES: HORIZ. 1"=40' VERT. 1"=4' SHEET CH2 OF CH8 PAGE 113 OF 143

DESIGNED:	JKW	DATE:	01/13
DRAWN:	CRB	CHECKED:	JJC
PROJ. ENG.:	JKW		01/13

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

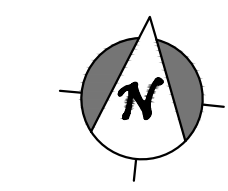
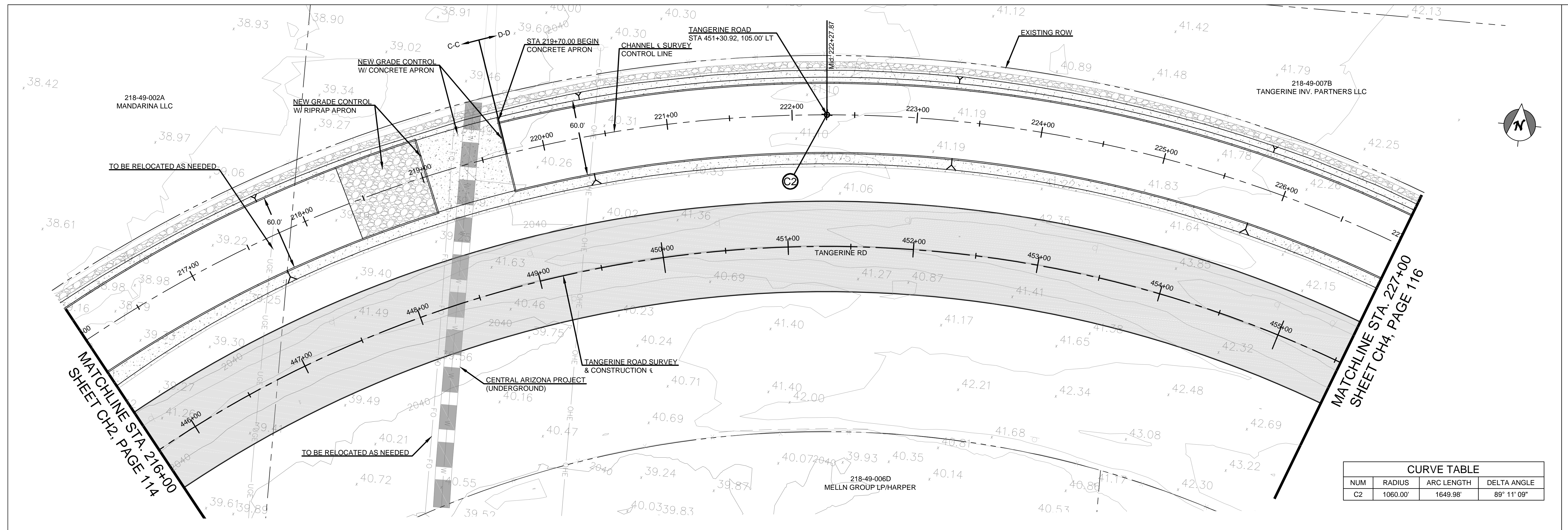
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TOWN OF MARANA - PROJECT NO. 2005-061

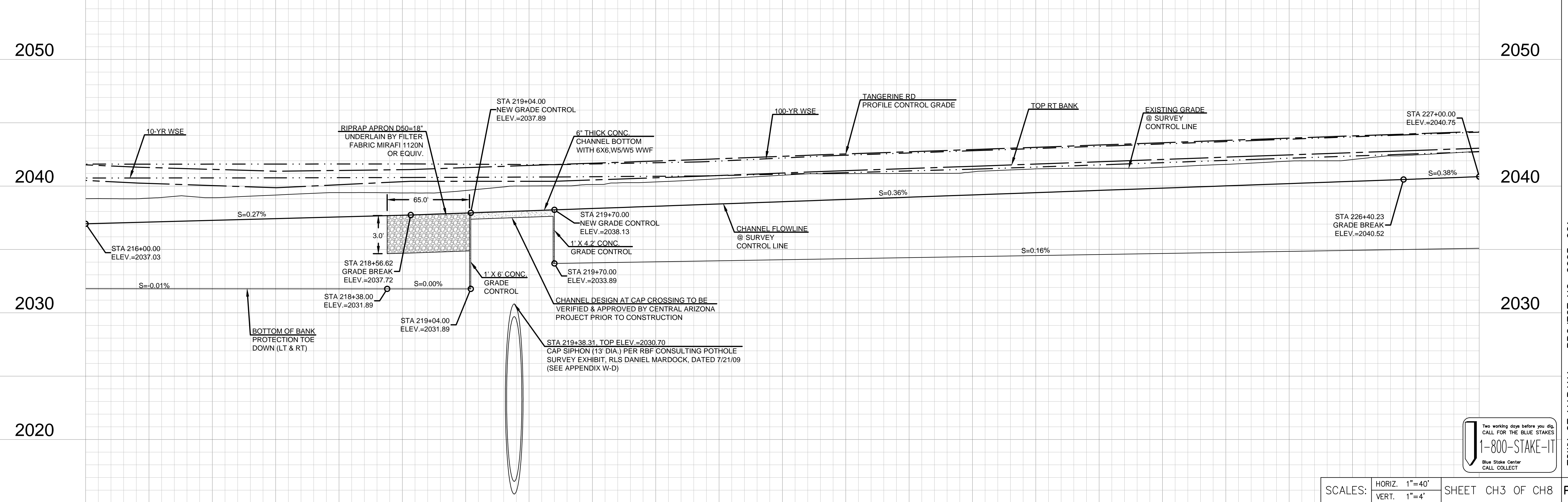
CHANNEL PLAN AND PROFILE FOR TANGERINE ROAD WEST END REGIONAL CHANNEL STA 210+00 TO STA 216+00

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CURVE TABLE			
NUM	RADIUS	ARC LENGTH	DELTA ANGLE
C2	1060.00'	1649.98'	89° 11' 09"

216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00



SCALES: HORIZ. 1"=40'
VERT. 1"=4'



DESIGNED:	JKW	DATE:	01/13
DRAWN:	CRB	CHECKED:	JJC
PROJ. ENG.:	JKW		

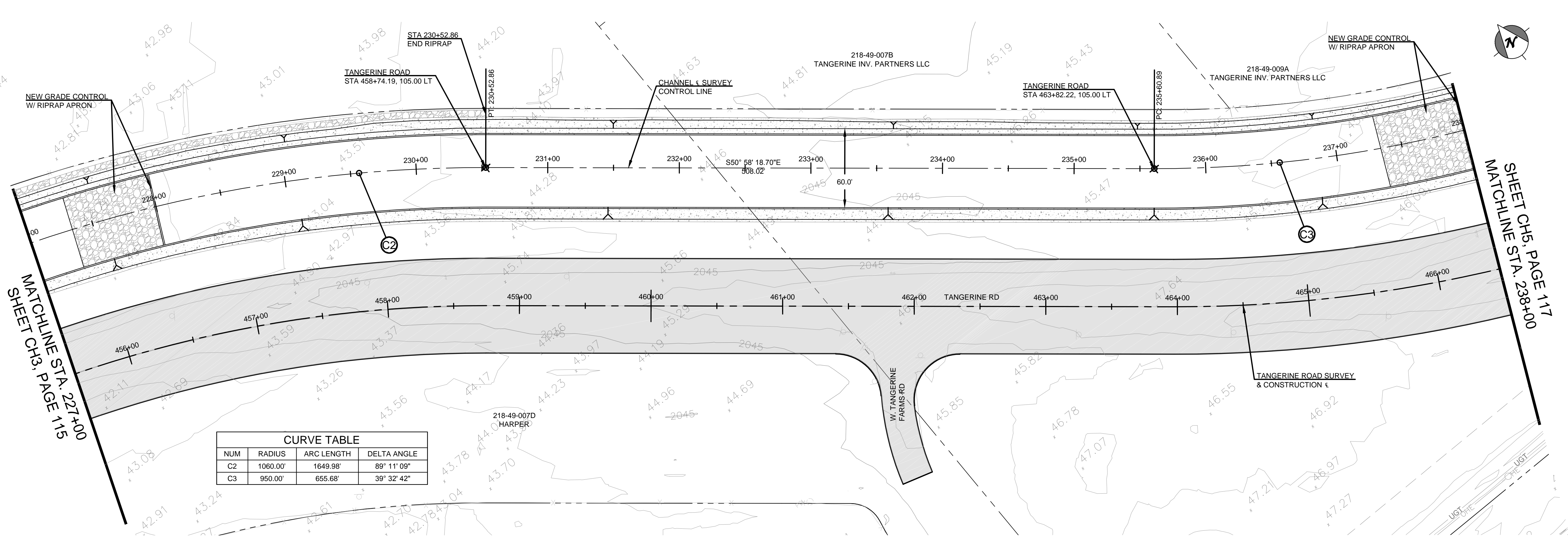
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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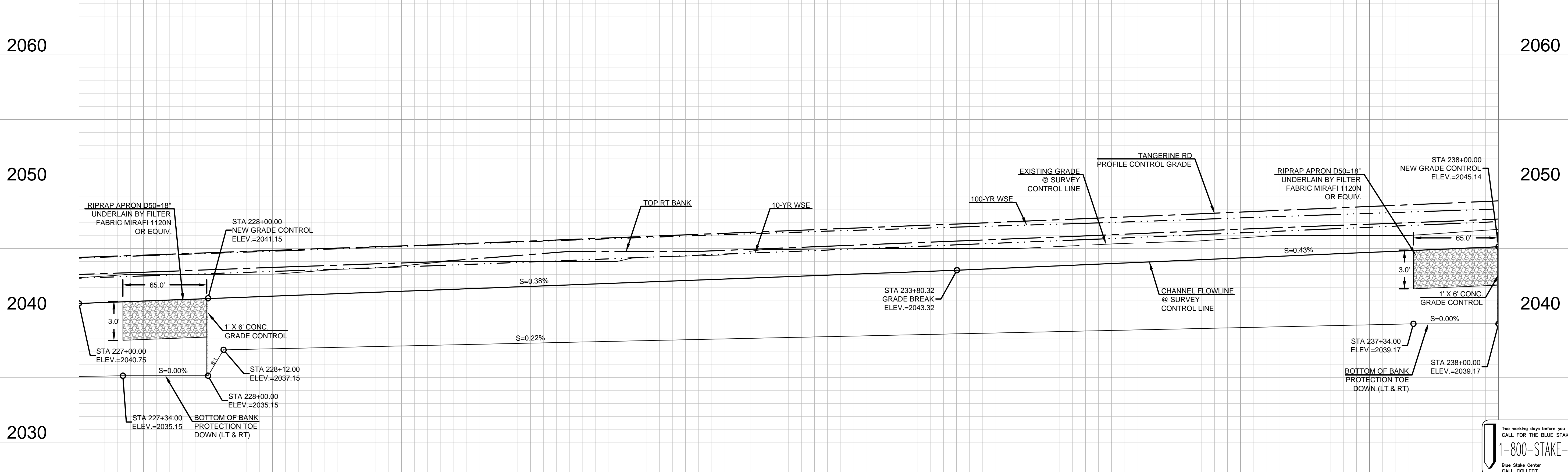
TOWN OF MARANA - PROJECT NO. 2005-061
 CHANNEL PLAN AND PROFILE
 FOR
TANGERINE ROAD WEST END REGIONAL CHANNEL
 STA 216+00 TO STA 227+00

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CURVE TABLE			
NUM	RADIUS	ARC LENGTH	DELTA ANGLE
C2	1060.00'	1649.98'	89° 11' 09"
C3	950.00'	655.68'	39° 32' 42"

227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00



SCALES: HORIZ. 1"=40' VERT. 1"=4' SHEET CH4 OF CH8 PAGE 115 OF 143

DATE	DESIGNED:	DRAWN:	CHECKED:	PROJ. ENG.:
01/13	JKW	JKW	JJC	JKW
01/13				
01/13				

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

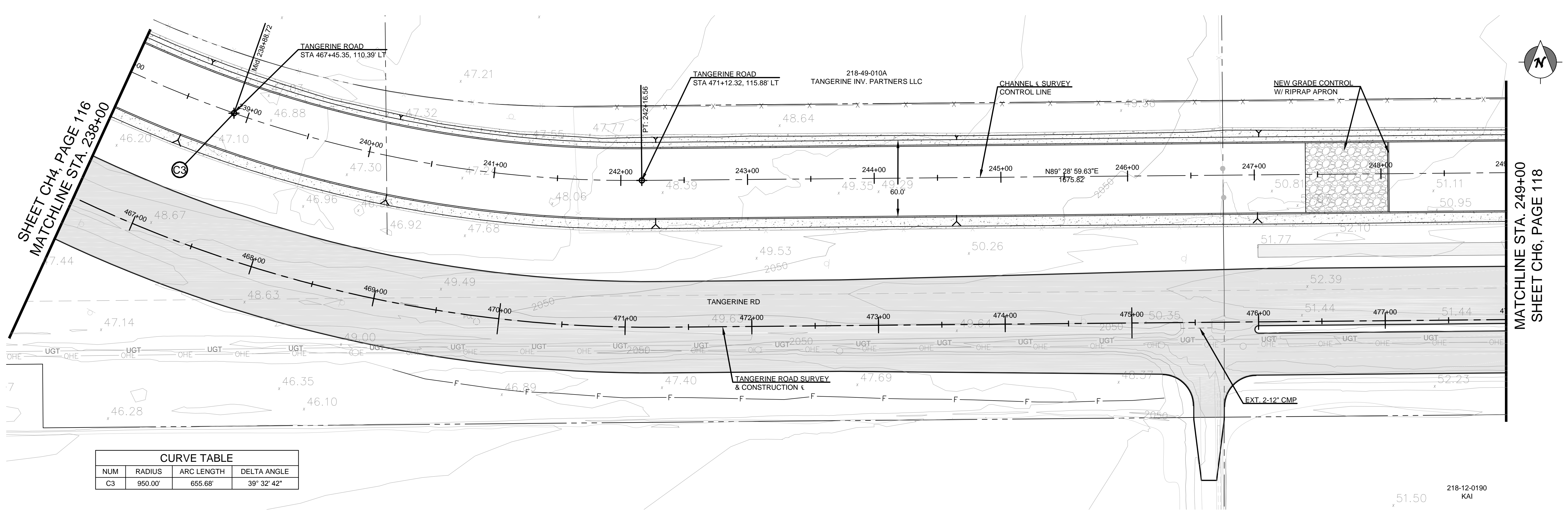
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 CHANNEL PLAN AND PROFILE FOR
TANGERINE ROAD WEST END REGIONAL CHANNEL
 STA 227+00 TO STA 238+00

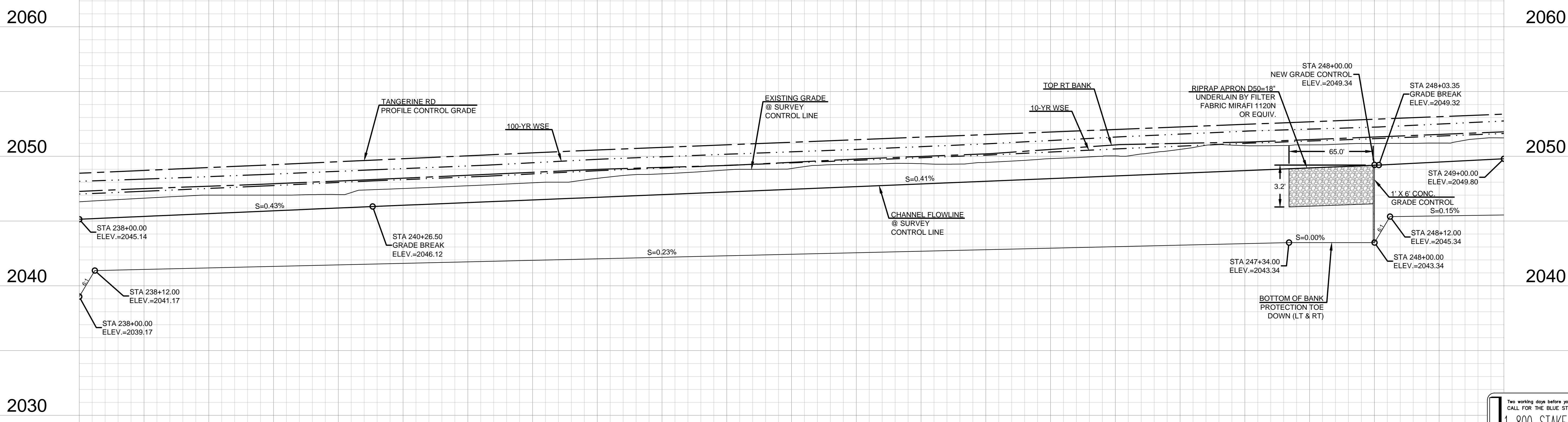


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CURVE TABLE			
NUM	RADIUS	ARC LENGTH	DELTA ANGLE
C3	950.00'	655.68'	39° 32' 42"

238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00 248+00 249+00



SCALES: HORIZ. 1"=40' VERT. 1"=4' SHEET CH5 OF CH8 PAGE 116 OF 143

DESIGNED:	DATE
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JCC	01/13
JKW	01/13

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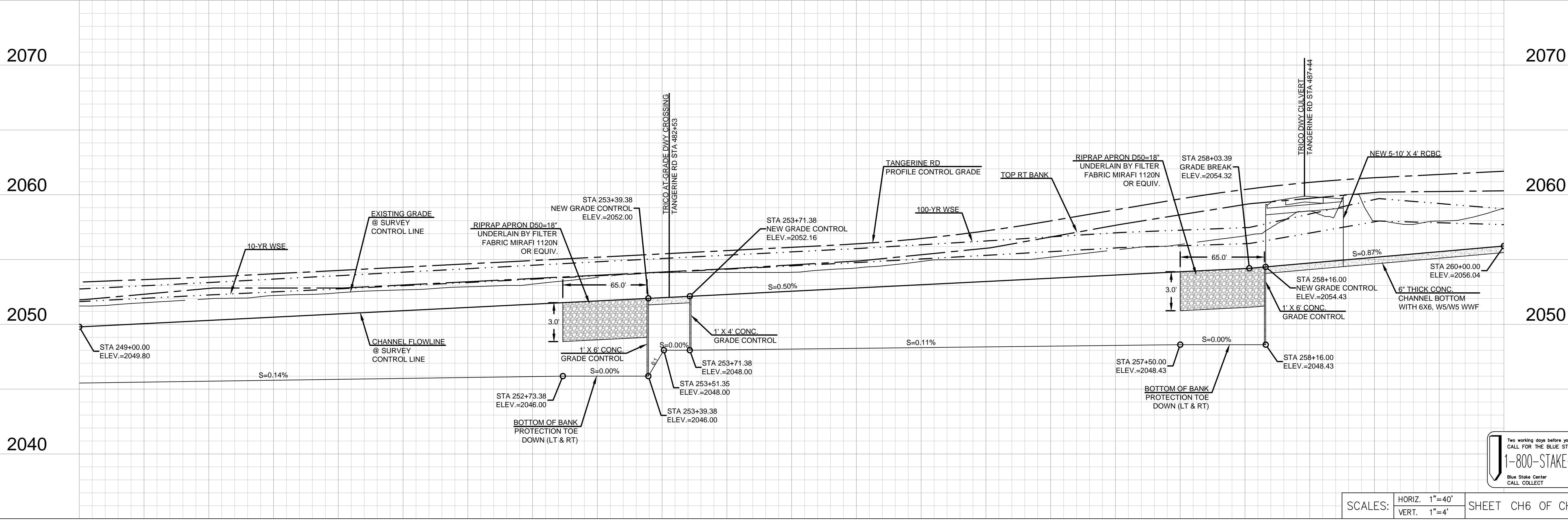
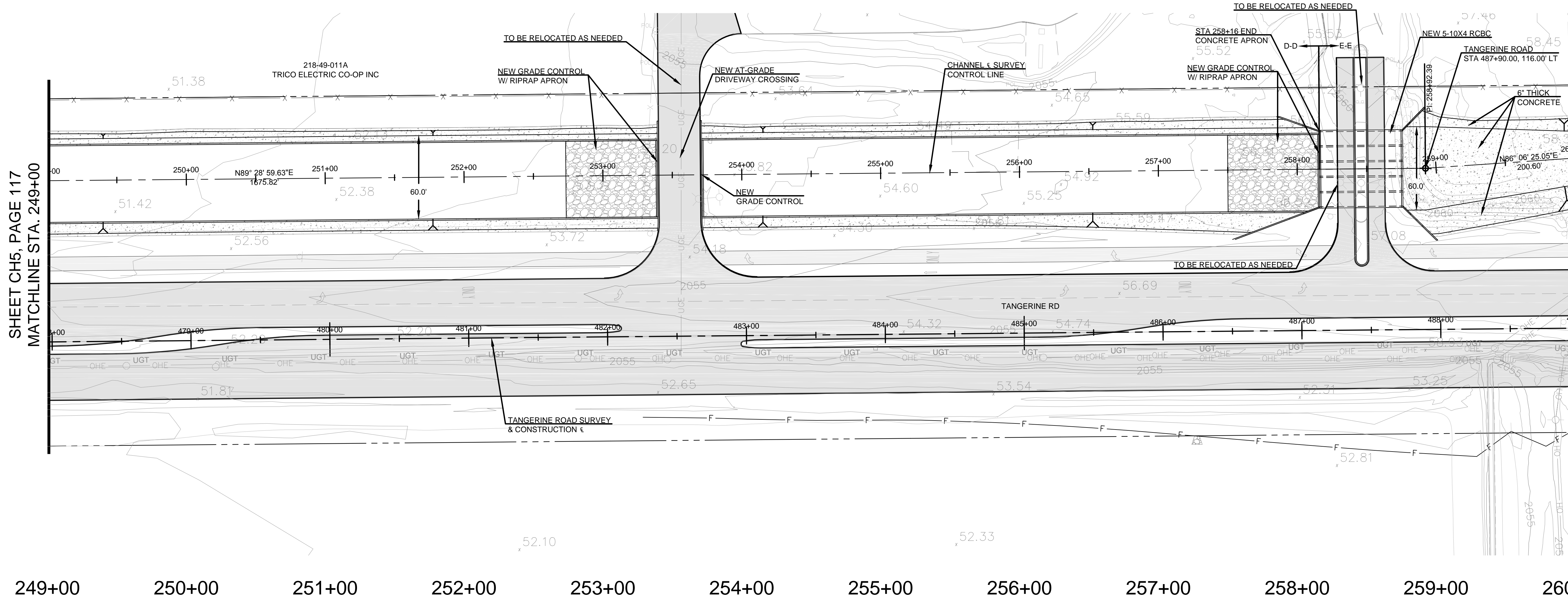
TOWN OF MARANA - PROJECT NO. 2005-061
 CHANNEL PLAN AND PROFILE FOR
TANGERINE ROAD WEST END REGIONAL CHANNEL
 STA 238+00 TO STA 249+00

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SHEET CH5, PAGE 117
MATCHLINE STA. 249+00

MATCHLINE STA. 260+00
SHEET CH7, PAGE 119



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SCALES: HORIZ. 1"=40'
VERT. 1"=4'
SHEET CH6 OF CH8
PAGE 117 OF 143

DESIGNED:	JKW	DATE:	01/13
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PROJ. ENG.:	JKW		01/13

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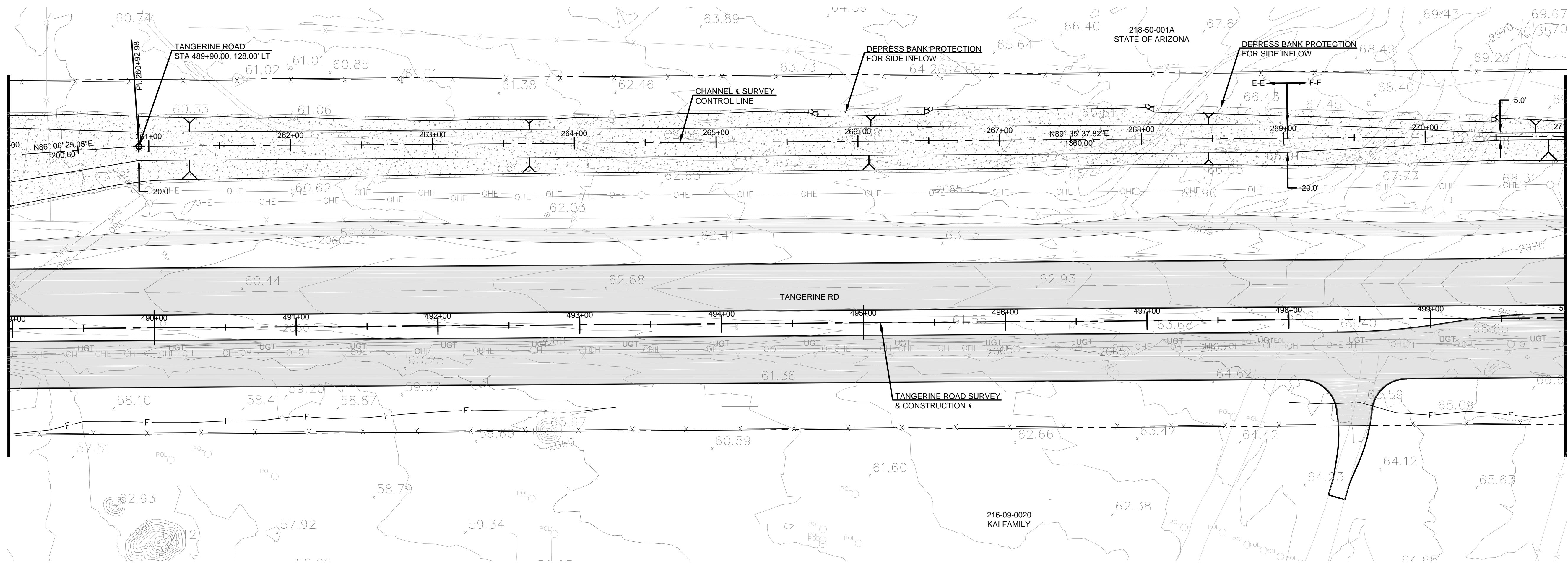
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TOWN OF MARANA - PROJECT NO. 2005-061
CHANNEL PLAN AND PROFILE
FOR
**TANGERINE ROAD WEST END
REGIONAL CHANNEL**
STA 249+00 TO STA 260+00

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SHEET CH6, PAGE 118
MATCHLINE STA. 260+00

MATCHLINE STA. 271+00
SHEET CH8, PAGE 120



260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00

2080

2080

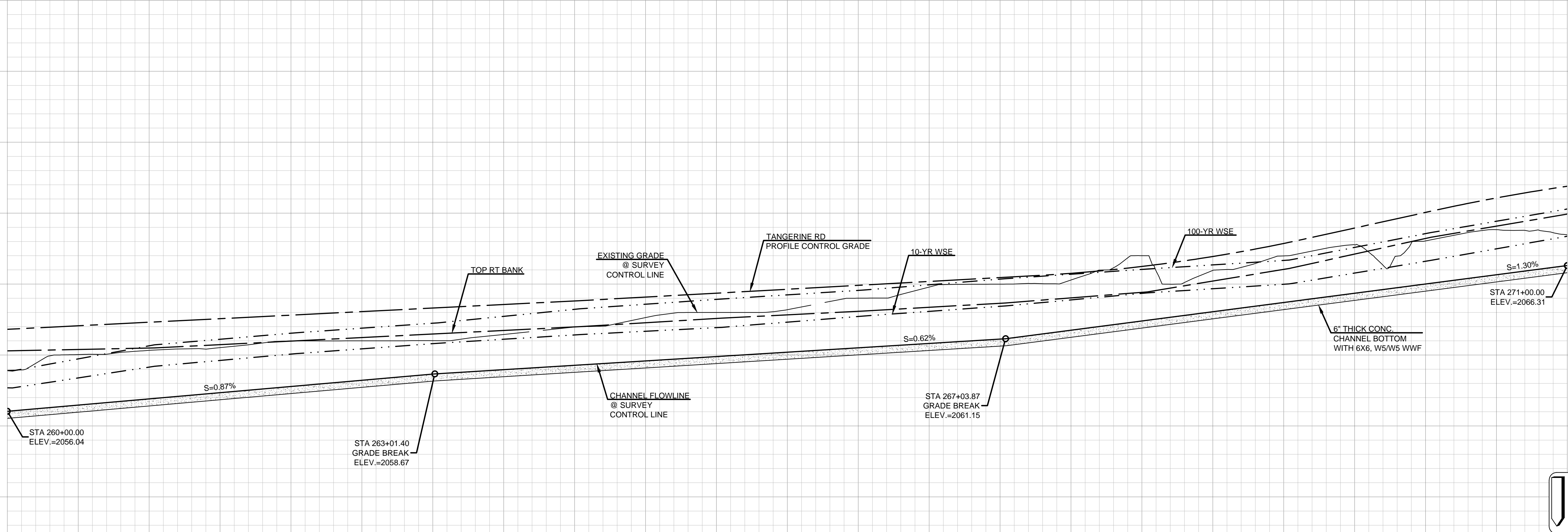
2070

2070

2060

2060

2050



SCALES: HORIZ. 1"=40'
VERT. 1"=4'

SHEET CH7 OF CH8

PAGE 118 OF 143

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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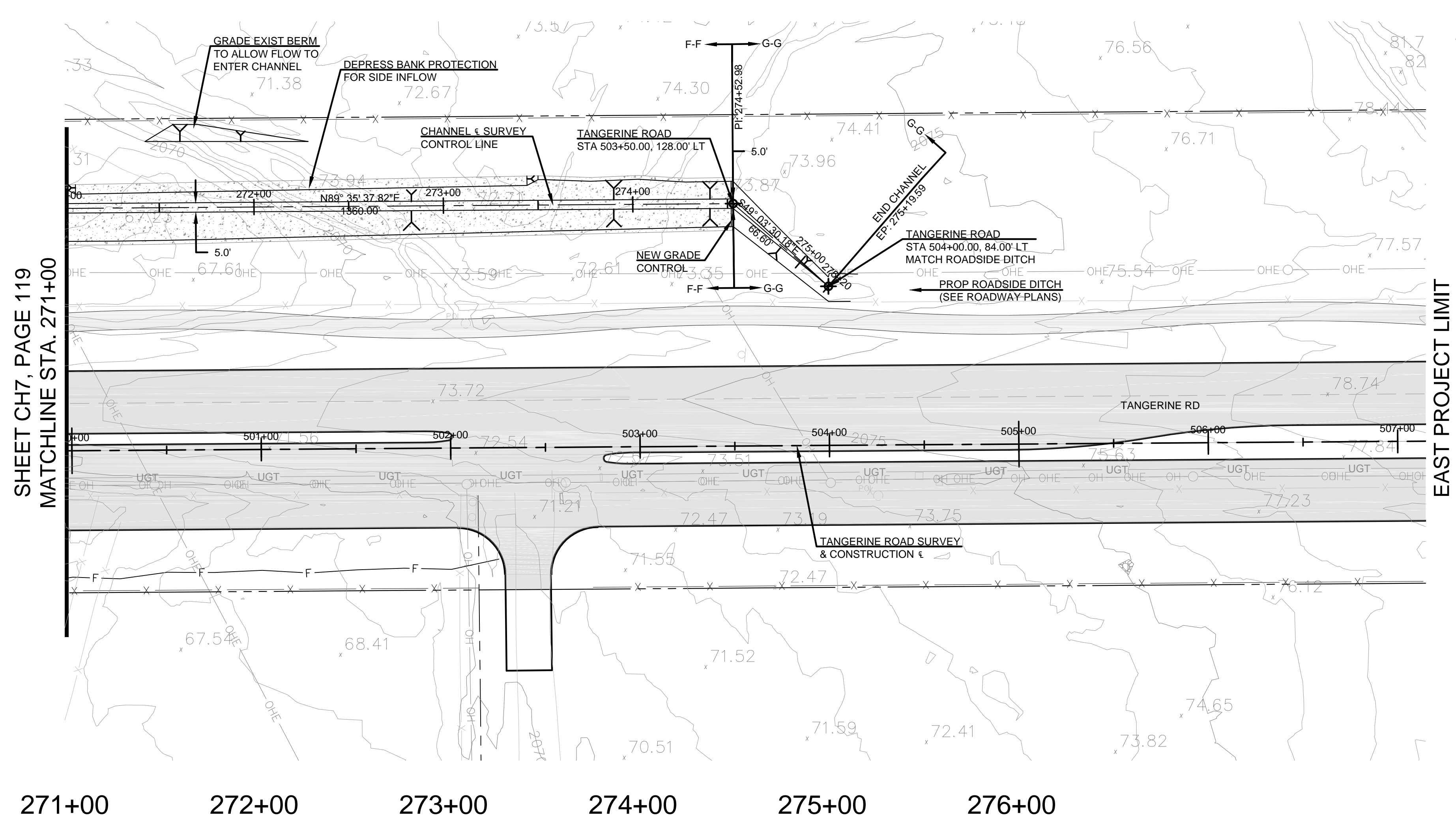
CMG DRAINAGE ENGINEERING, INC.
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TOWN OF MARANA - PROJECT NO. 2005-061

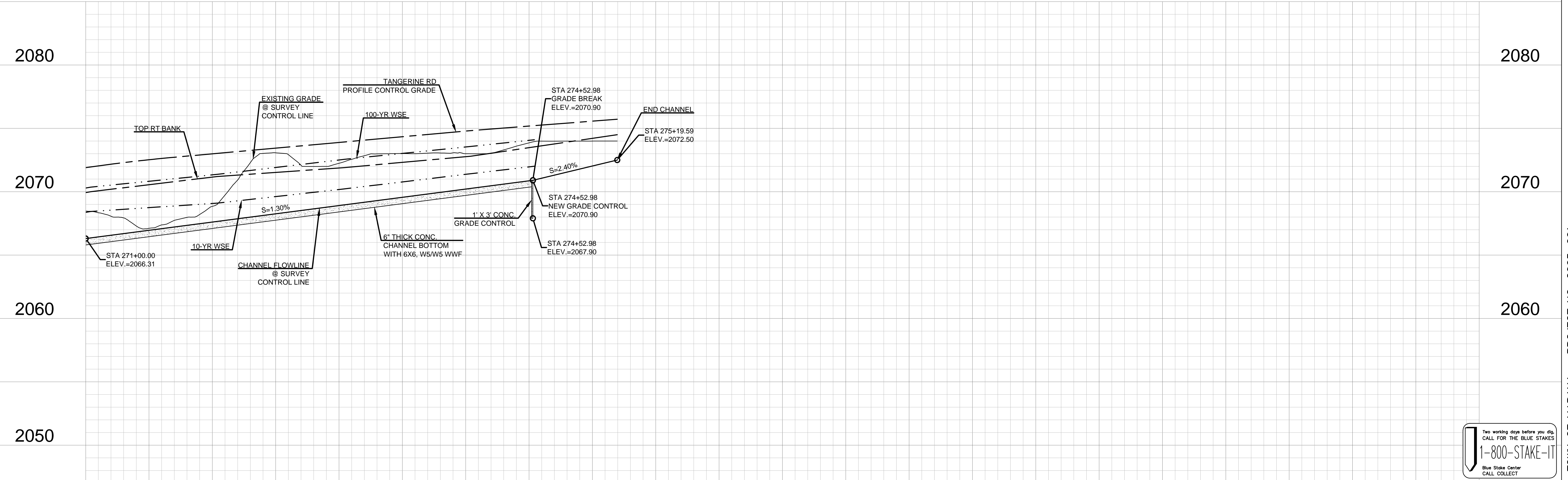
CHANNEL PLAN AND PROFILE
FOR
**TANGERINE ROAD WEST END
REGIONAL CHANNEL**
STA 260+00 TO STA 271+00

DESIGNED:	DATE
JKW	01/13
DRAWN:	01/13
JKW	01/13
CHECKED:	01/13
JCC	01/13
PROJ. ENG.:	01/13
JKW	01/13

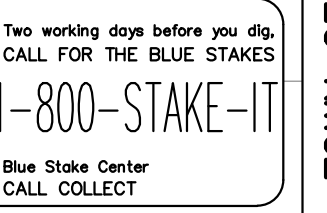
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271+00 272+00 273+00 274+00 275+00 276+00



2080
2070
2060
2050



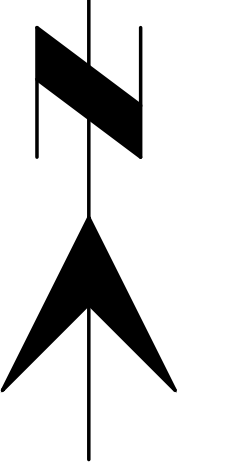
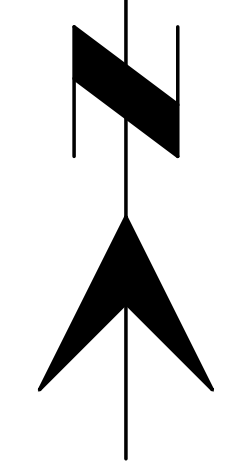
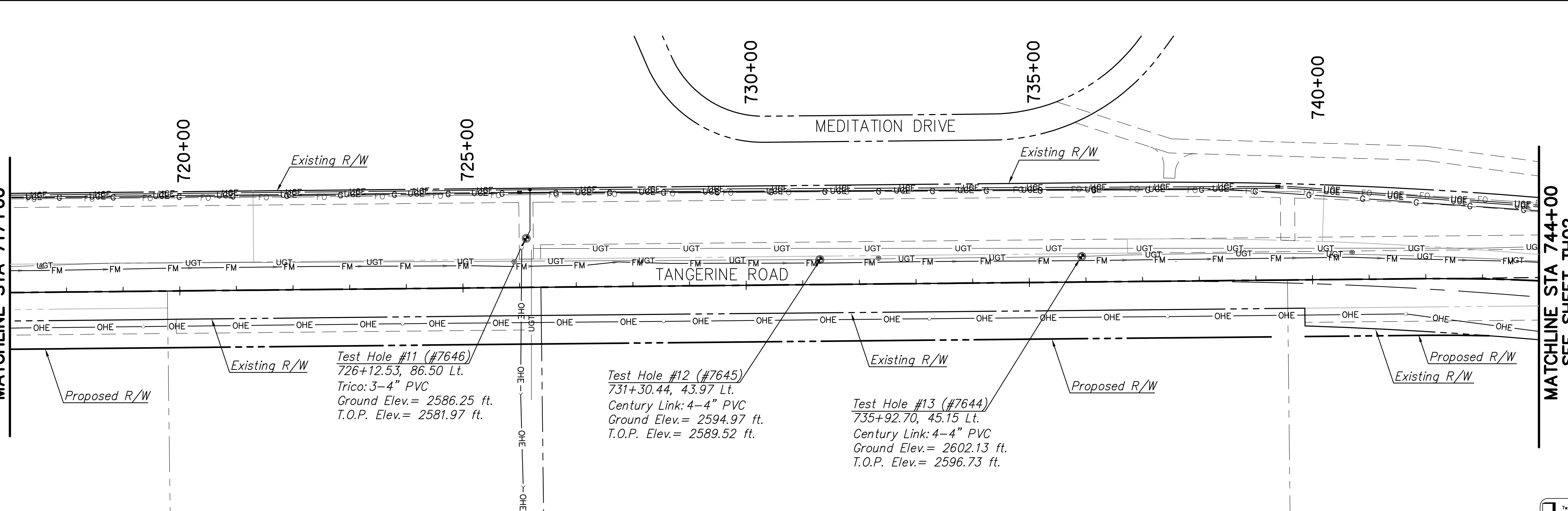
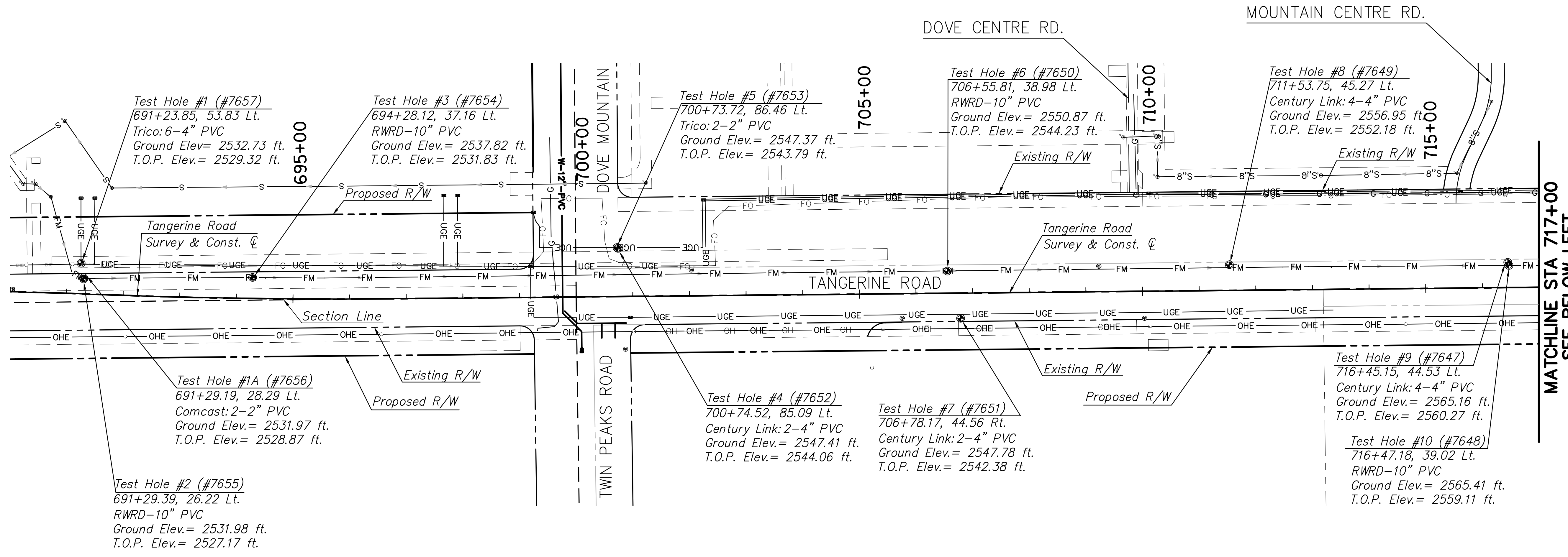
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PROJ. ENG.:	JKW	DATE	01/13

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TOWN OF MARANA - PROJECT NO. 2005-061
 CHANNEL PLAN AND PROFILE
 FOR
**TANGERINE ROAD WEST END
 REGIONAL CHANNEL**
 STA 271+00 TO STA 275+13



MATCHLINE STA 717+00
SEE BELOW LEFT

MATCHLINE STA 744+00
SEE SHEET TH02

DESIGNED:	CZ	DATE:	11/12
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CHECKED:	AA	DATE:	12/12
PROJ. ENG.:	AA	DATE:	12/12

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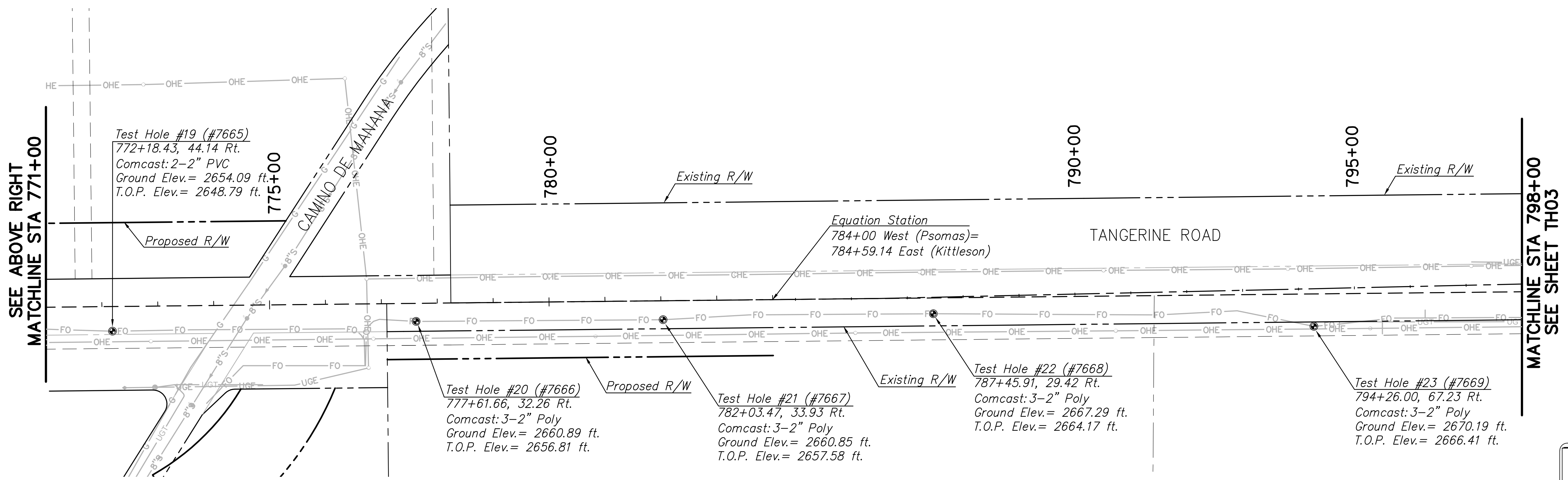
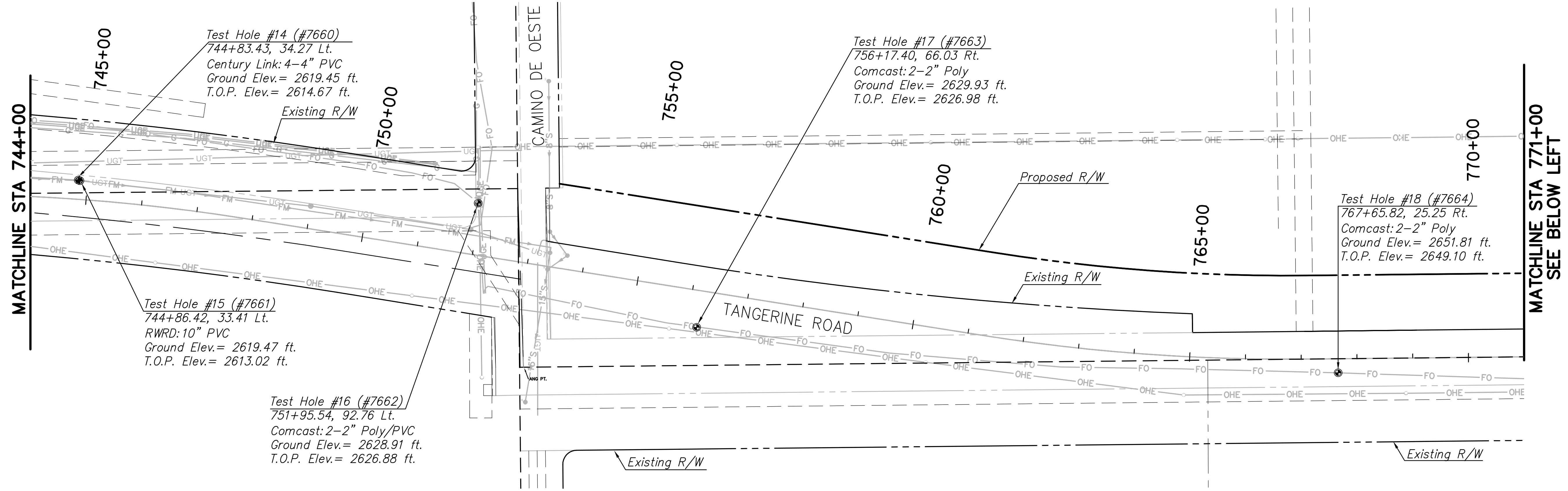
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UTILITY TEST HOLE PLAN
FOR
TANGERINE ROAD
TANGERINE ROAD

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Blue Stake Center
CALL COLLECT

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1-800-STAKE-IT
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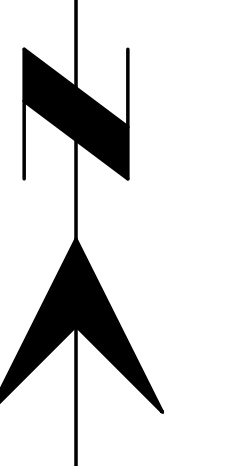
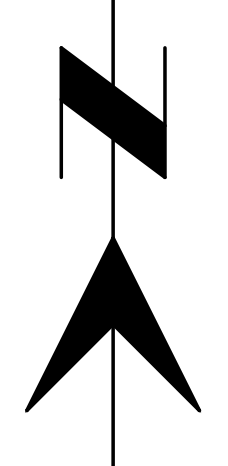
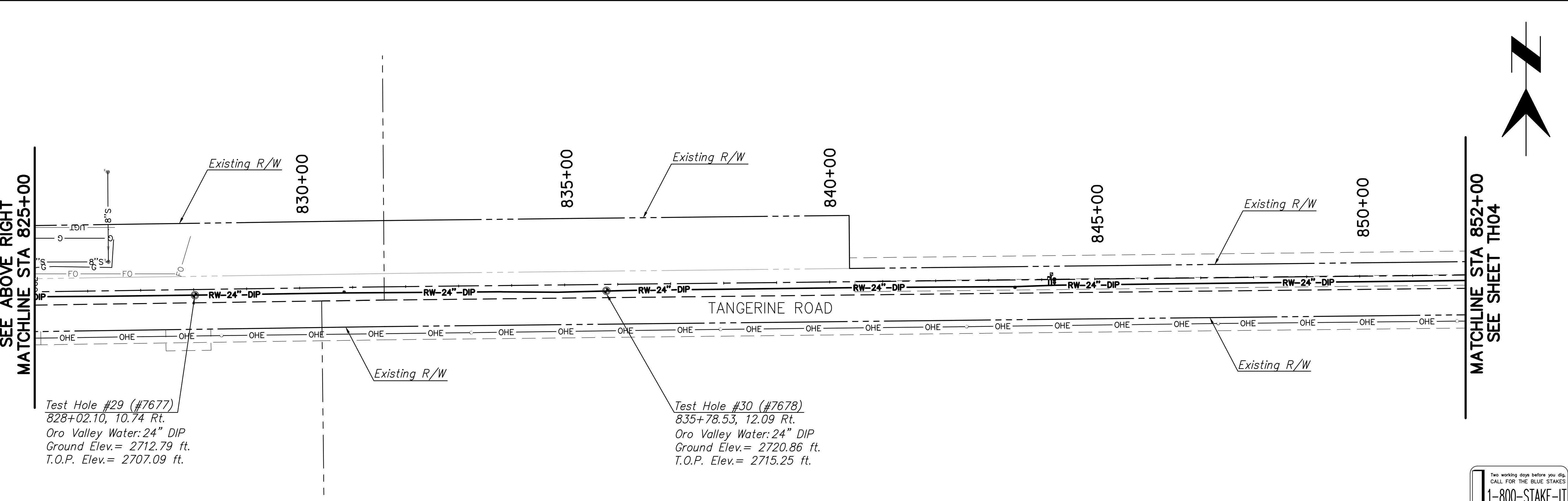
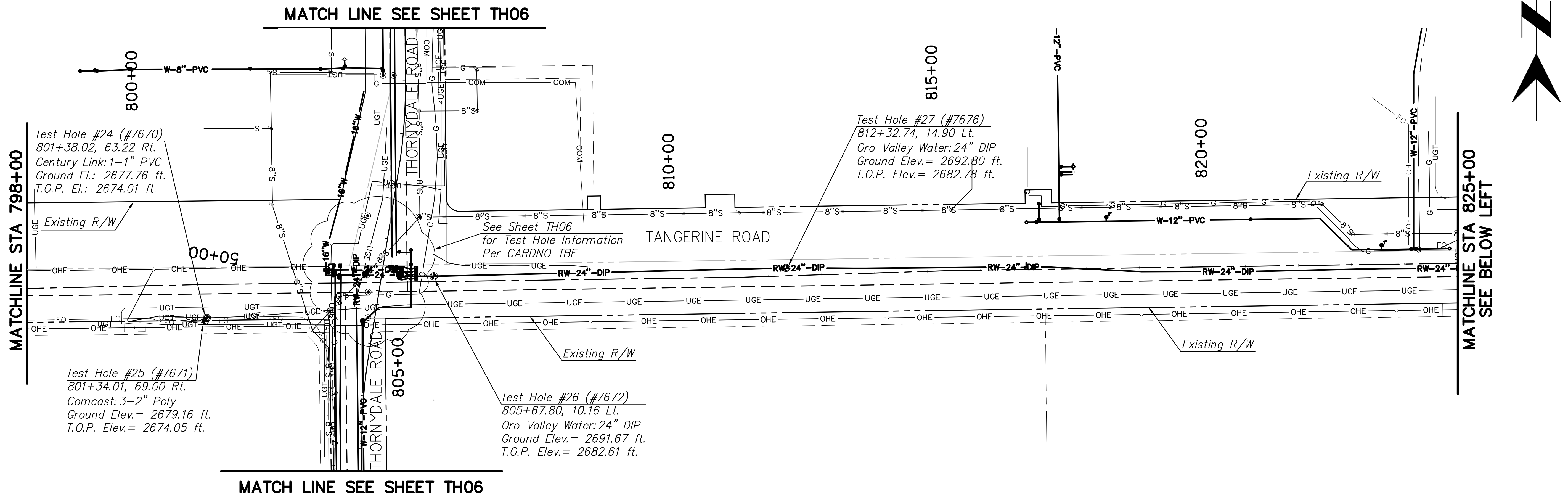
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UTILITY TEST HOLE PLAN FOR TANGERINE ROAD
TANGERINE ROAD



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 FOR
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MATCHLINE STA 852+00

855+00

Test Hole #31 (#7679)
854+51.67, 10.13 Rt.
Oro Valley Water: 24" DIP
Ground Elev.= 2731.67 ft.
T.O.P. Elev.= 2725.73 ft.

860+00

Existing R/W

865+00

TANGERINE ROAD

870+00

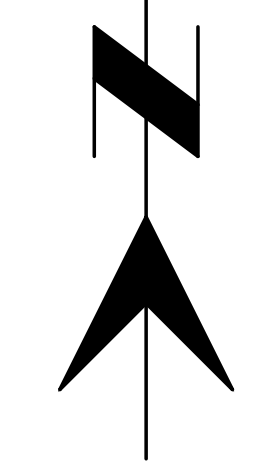
CAMINO DEL FIERRO

Test Hole #34 (#7685)
874+81.63, 11.02 Rt.
Oro Valley Water: 24" DIP
Ground Elev.= 2757.89 ft.
T.O.P. Elev.= 2751.64 ft.

875+00

Existing R/W

MATCHLINE STA 879+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCHLINE STA 879+00

880+00

Existing R/W

CAMINO DEL PLATA

Test Hole #36 (#7687)
885+08.18, 57.18 Rt.
T.E.P.: 5-2" PVC
Ground Elev.= 2761.69 ft.
T.O.P. Elev.= 2757.67 ft.

Test Hole #37 (#7688)
885+24.30, 12.36 Rt.
Oro Valley Water: 24" DIP
Ground Elev.= 2762.79 ft.
T.O.P. Elev.= 2757.21 ft.

885+00

890+00

TANGERINE ROAD

895+00

See Detail: A
(Below)

COMO DRIVE

Test Hole #43 (#7696)
904+26.36, 59.00 Rt.
T.E.P.: 3-2" PVC
Ground Elev.= 2776.57 ft.
T.O.P. Elev.= 2770.04 ft.

Test Hole #41 (#7694)
904+24.20, 64.28 Rt.
Century Link: 1" Direct Bury
Ground Elev.= 2773.86 ft.
T.O.P. Elev.= 2770.86 ft.

900+00

Existing R/W

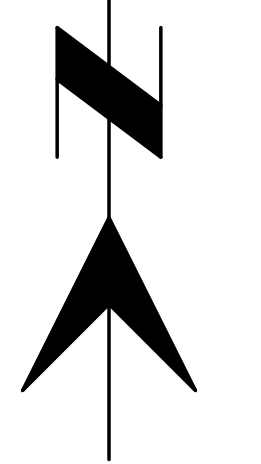
Test Hole #44 (#7697)
904+18.15, 7.49 Rt.
Oro Valley Water: 24" DIP
Ground Elev.= 2777.66 ft.
T.O.P. Elev.= 2768.67 ft.

Test Hole #42 (#7695)
904+28.05, 50.70 Lt.
Comcast: 2-2" Poly
Ground Elev.= 2777.51 ft.
T.O.P. Elev.= 2773.95 ft.

905+00

See Detail: B
(Above)

MATCHLINE STA 906+00
SEE SHEET TH04



Existing R/W

Test Hole #35 (#7686)
885+06.45, 63.40 Rt.
Century Link: 1" Direct Bury
Ground Elev.= 2761.67 ft.
T.O.P. Elev.= 2760.22 ft.

MESQUITE SUNSET

Test Hole #39 (#7692)
897+21.32, 50.79 Rt.
T.E.P.: 3-2" PVC
Ground Elev.= 2770.50 ft.
T.O.P. Elev.= 2766.42 ft.

Test Hole #40 (#7693)
897+21.22, 51.68 Rt.
Comcast: 2-2" Poly
Ground Elev.= 2770.47 ft.
T.O.P. Elev.= 2767.77 ft.

Test Hole #38 (#7690)
897+18.17, 62.07 Rt.
Century Link: 1" Direct Bury
Ground Elev.= 2770.25 ft.
T.O.P. Elev.= 2768.69 ft.

Test Hole #38A (#7691)
897+21.78, 52.87 Rt.
Century Link: 2-4" PVC
Ground Elev.= 2770.54 ft.
T.O.P. Elev.= 2767.01 ft.

Existing R/W

See Detail: A Scale: NTS

See Detail: B Scale: NTS



SCALES: HORIZ. 1"=100' VERT. N/A SHEET TH04 OF TH06

TOWN OF MARANA - PROJECT NO. 2005-061

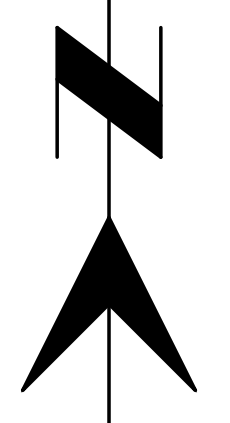
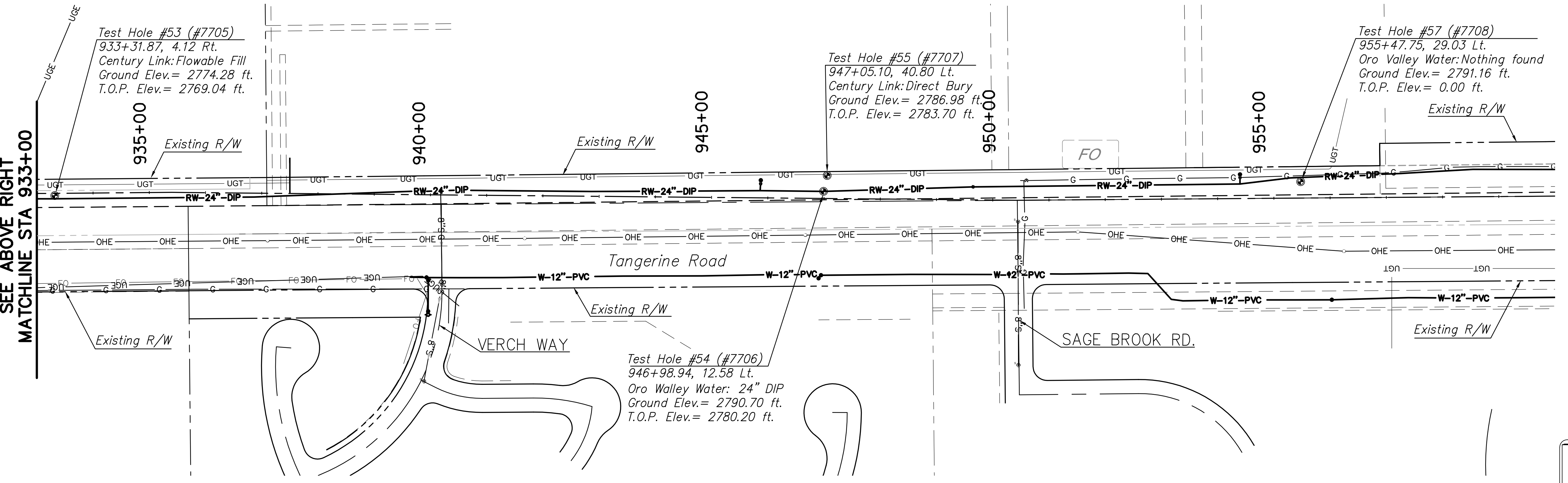
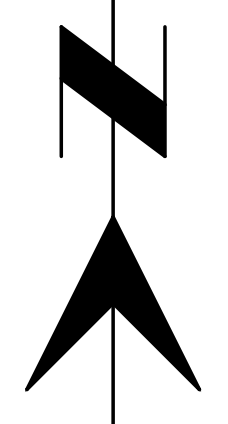
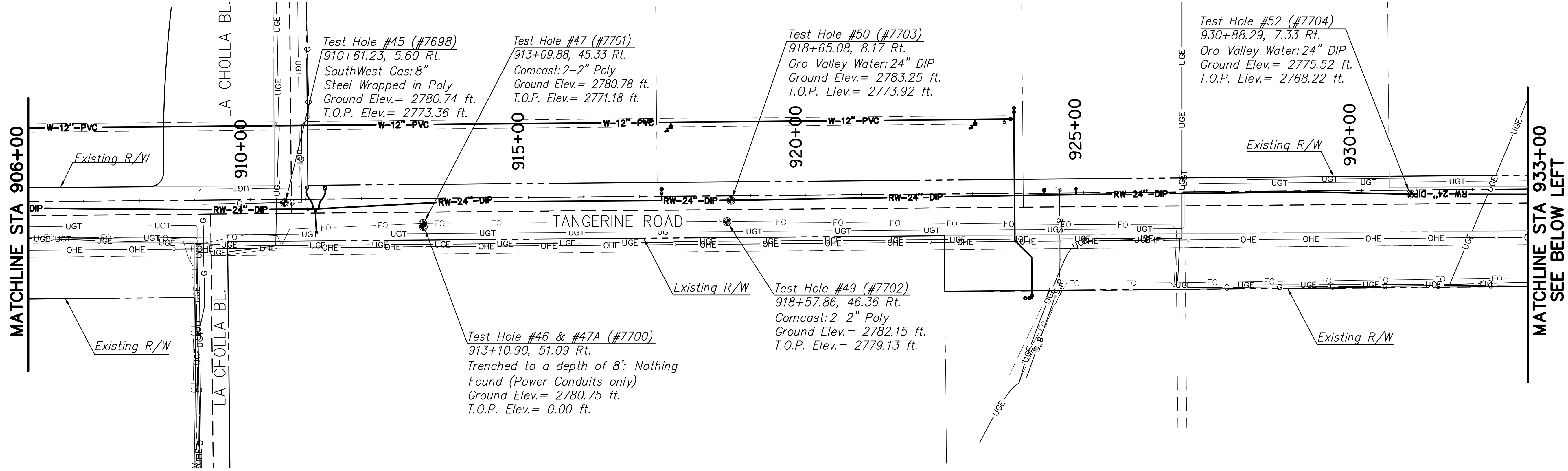
UTILITY TEST HOLE PLAN FOR TANGERINE ROAD

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		11/12
CHECKED:	CZ	DATE
		12/12
PROJ. ENG.:	AA	DATE
		12/12



DESIGNED:	CZ
DRAWN:	SM
CHECKED:	CZ
PROJ. ENG.:	AA

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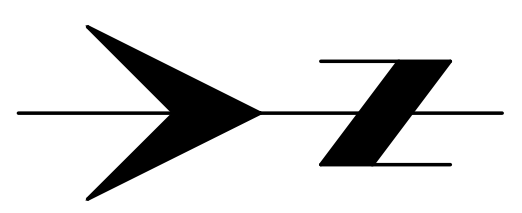
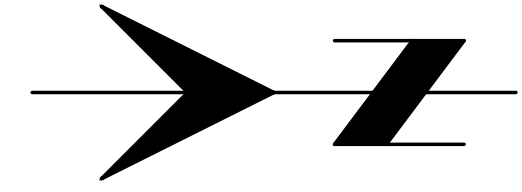
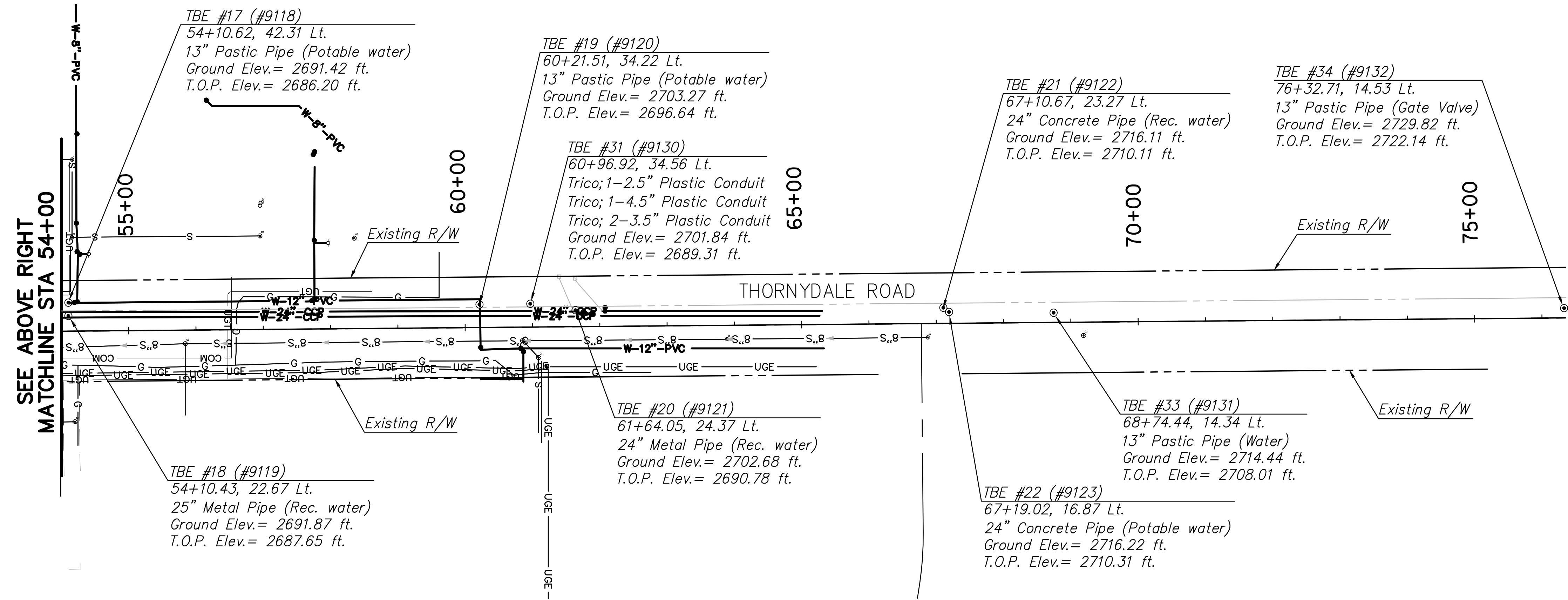
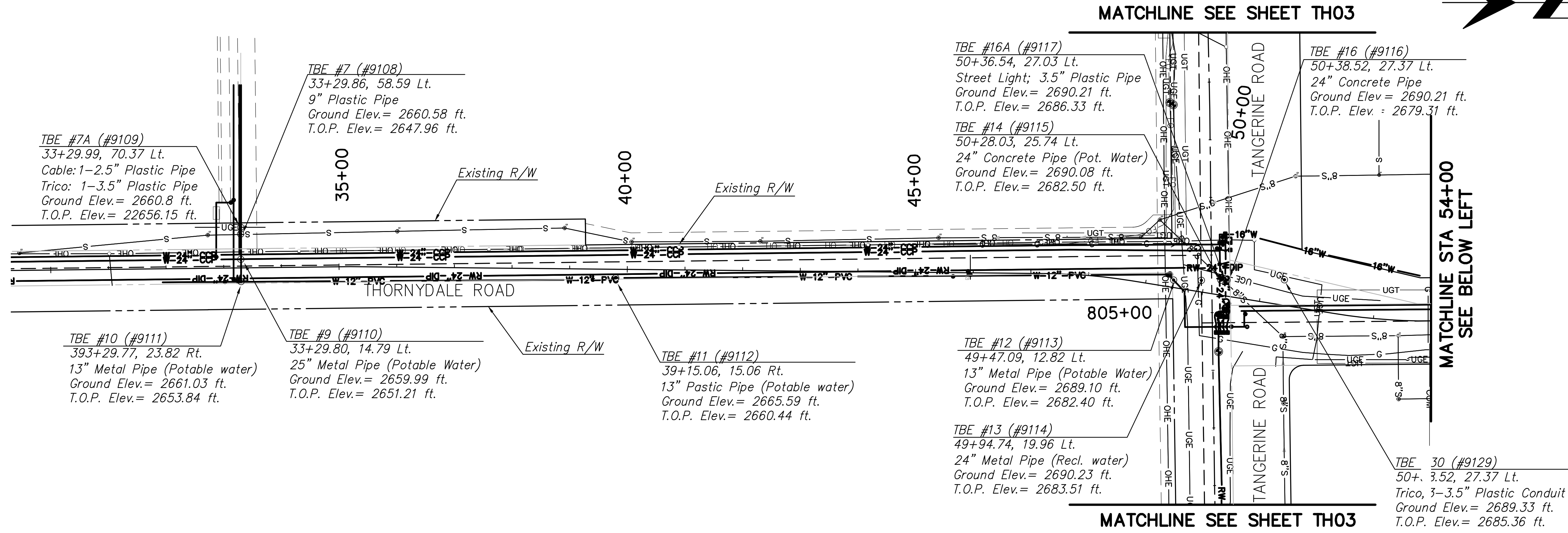
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TOWN OF MARANA - PROJECT NO. 2005-061

UTILITY TEST HOLE PLAN
FOR
TANGERINE ROAD
TANGERINE ROAD

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Blue Stake Center
CALL COLLECT

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DESIGNED:	CZ
DRAWN:	SM
CHECKED:	CZ
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TOWN OF MARANA - PROJECT NO. 2005-061

UTILITY TEST HOLE PLAN
FOR
TANGERINE ROAD
TANGERINE ROAD

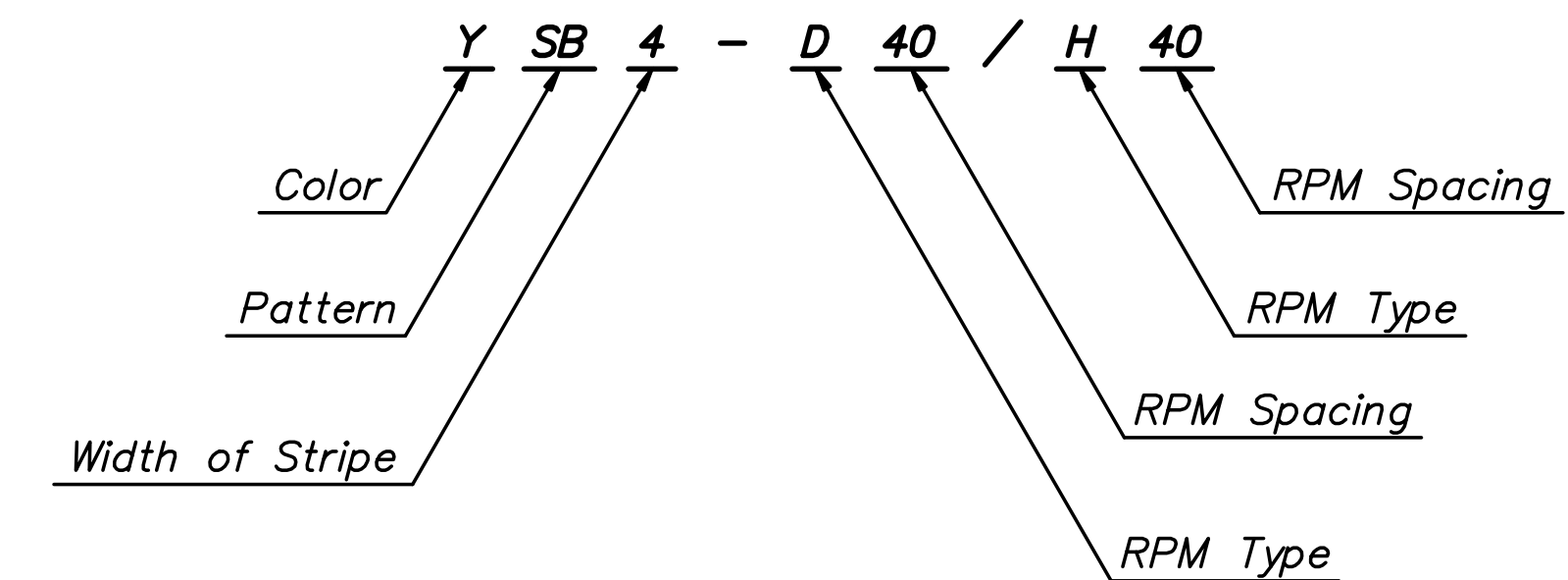


PAVEMENT MARKING GENERAL NOTES

1. ALL EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT PC/COT STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS AND THE APPROVED PLANS. ALL PAVEMENT MARKING SHALL BE INSTALLED IN ACCORDANCE WITH THE PC/COT PAVEMENT MARKING DESIGN MANUAL.
2. THE STRIPING CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST THREE WORKING DAYS IN ADVANCE OF ANY PAVEMENT MARKING LAYOUT BEING INSTALLED TO SCHEDULE INSPECTION AND APPROVAL OF PAVEMENT MARKING.
3. UPON APPROVAL OF THE PAVEMENT MARKING LAYOUT, THE ENGINEER WILL ISSUE WRITTEN AUTHORIZATION TO THE CONTRACTOR TO PROCEED WITH INSTALLING ALL PAVEMENT MARKINGS AND ASSOCIATED REFLECTIVE RAISED PAVEMENT MARKINGS.
4. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED AND APPROVED BY THE TRAFFIC ENGINEER OR HIS DESIGNEE.
5. THE DESIGN VEHICLE IS WB-62 FOR THE PROJECT. THE DESIGN SPEED AND POSTED SPEED ARE AS FOLLOWS:

Road	Design Speed	Posted Speed
Tangerine Road, Sta 439+74.11 to Sta 476+00	40 mph	40 mph
Tangerine Road, Sta 476+00 to Sta 784+00	55 mph	50 mph
Dove Mountain Blvd/ Twin Peaks Road	50 mph	45 mph
Camino De Oeste	50 mph	45 mph
Camino De Manana	35 mph	35 mph
Other Side Streets	25 mph	25 mph

6. ALL LANE DIMENSIONS ARE MEASURED FROM THE CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, APPLICABLE MARKING DETAILS, AND SPECIFIED PIMA COUNTY STANDARDS WHEN INSTALLING PAVEMENT STRIPING, SYMBOLS, LEGENDS, AND MARKERS.
8. PAINTED LAYOUT STRIPING SHALL BE 15 MILS (0.015") THICK, WATER BASED PAINT PLACED ON THE FINAL PAVEMENT SURFACE. PAINTED LAYOUT STRIPING SHALL BE INSTALLED WITHIN FIVE WORKING DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED.
9. PAINTED SYMBOLS AND LEGENDS SHALL BE APPLIED AT THE SAME TIME AS THE PAINTED STRIPING, WITH THE EXCEPTION OF BIKE LANE SYMBOLS AND WORDS (SUCH AS STOP, AHEAD, ONLY, ETC.).
10. THE FINAL LONGITUDINAL STRIPING SHALL BE 60 MIL (0.060") THICK HOT-SPRAYED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE PAINTED LAYOUT STRIPING WITHIN 21 TO 30 CALENDAR DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED. ALL PREVIOUSLY EXEMPTED LONGLINE MARKINGS SHALL BE APPLIED DURING THE FINAL LONGITUDINAL STRIPING.
11. ALL FINAL TRANSVERSE STRIPING SHALL BE HOT-SPRAYED THERMOPLASTIC 90 MILS (0.090") INCLUDING SYMBOLS AND LEGENDS WITH THE EXCEPTION OF BIKE LANE SYMBOLS WHICH MAY BE EXTRUDED THERMOPLASTIC OR COLD PREFORMED THERMOPLASTIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING ONE CONTROL LINE PER DIRECTION OF TRAVEL CONSISTING OF CONTROL POINTS THAT HAVE BEEN SET TO NO MORE THAN 50 FEET APART ON CURVE SECTIONS AND 200 FEET IN TANGENT SECTIONS WHERE PAVEMENT MARKING PATTERN DOES NOT CHANGE.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE CONSTRUCTION JOINT IS NO MORE THAN ONE FOOT OFFSET FROM THE FINAL STRIPING.
14. ALL RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
15. ALL RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED PER THE CURRENT EDITION OF THE PC/COT PAVEMENT MARKING MANUAL.
16. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 701 OF THE PC/COT STANDARD SPECIFICATIONS. PAINTING OVER EXISTING STRIPING DOES NOT CONSTITUTE APPROVED STRIPING OBLITERATION.
17. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR.
18. UPON FINAL INSPECTION A WRITTEN ACCEPTANCE OR ITEMIZED PUNCH LIST OF MISSING OR UNACCEPTABLE PAVEMENT MARKINGS SHALL BE SUBMITTED TO THE CONTRACTOR BY THE TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STRIPING UNTIL THE PROJECT IS APPROVED OR "CONSTRUCTION ACCEPTANCE" BY THE TRAFFIC ENGINEER (FULLY OPENED TO TRAFFIC, ALL PUNCH LIST ITEMS ARE COMPLETED, AND ONE YEAR WARRANTIES BEGIN).
20. THE PC/COT PAVEMENT MARKING MANUAL IS AVAILABLE ONLINE AT: <http://dot.pima.gov/trafeng/DesignManual/PavementManual.pdf>
21. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER BY SWEEPING AND AIR-JET BLOWING IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE TEMPERATURE SHALL NOT BE LESS THAN 50 DEGREES F. FOR PLACEMENT OF HOT-SPRAY THERMOPLASTIC STRIPING, AND 40 DEGREES F. FOR THE PLACEMENT OF RPMs.



LINE STYLE DESIGNATION

See PC/COT Pavement Marking Design Manual, Sheet 2-3 for Further Descriptions.



DESIGNED:	CZ	DATE	12/12
DRAWN:	CZ	CHECKED:	AA
PROJ. ENG.:	AA	DATE	12/12

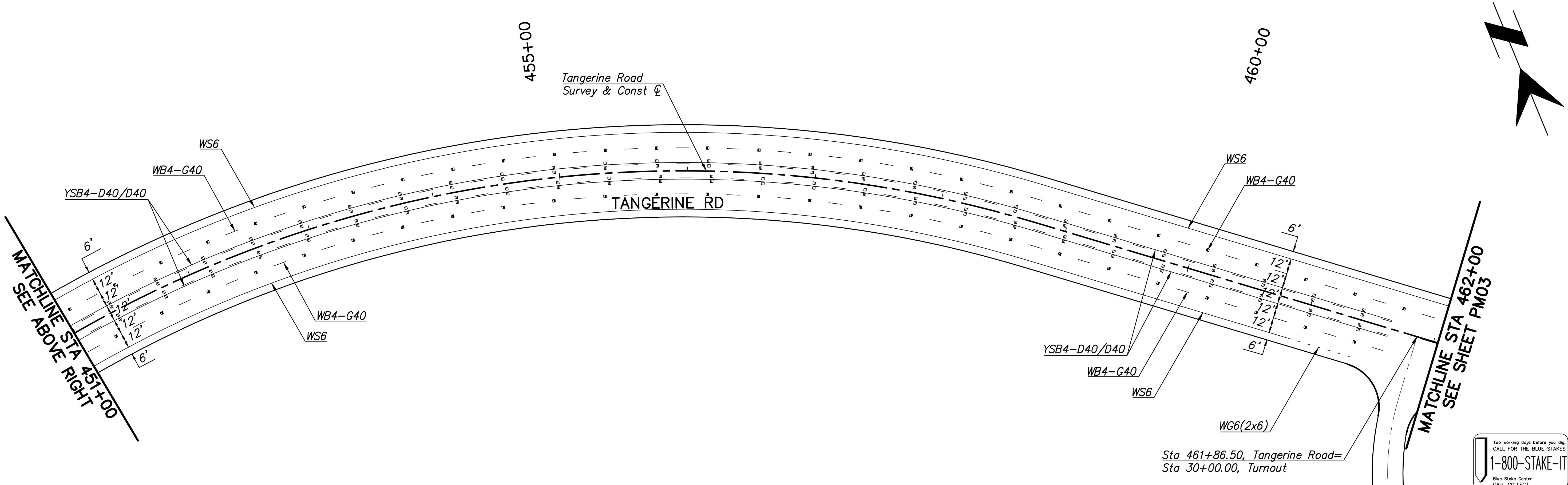
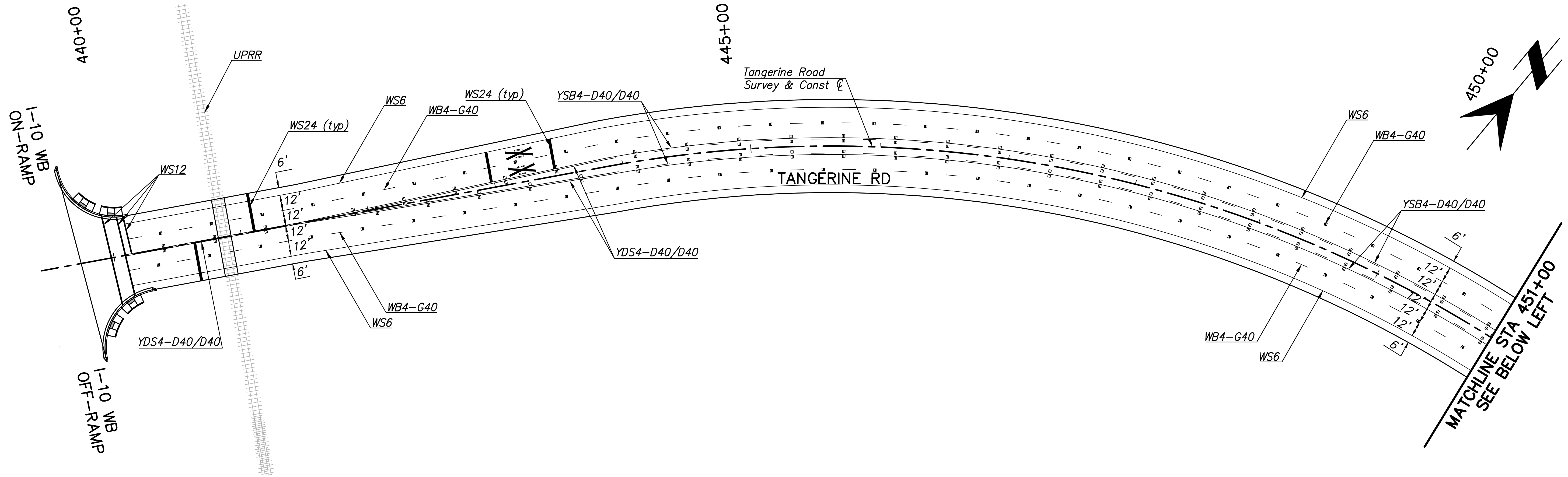
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 (520) 292-2300 (520) 292-1290 fax
 www.psomars.com

PAVEMENT MARKING PLANS FOR TANGERINE ROAD TANGERINE ROAD

TOWN OF MARANA - PROJECT NO. 2005-061



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Blue Stake Center
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TOWN OF MARANA - PROJECT NO. 2005-061

PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 440+00.00 TO STA 462+00.00
TANGERINE ROAD

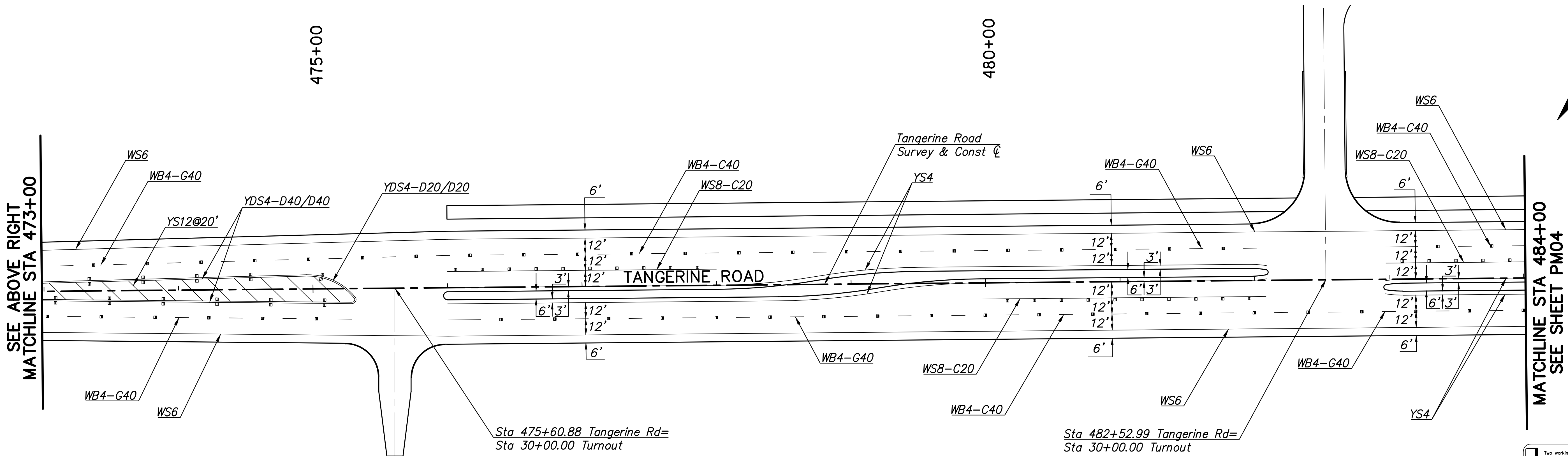
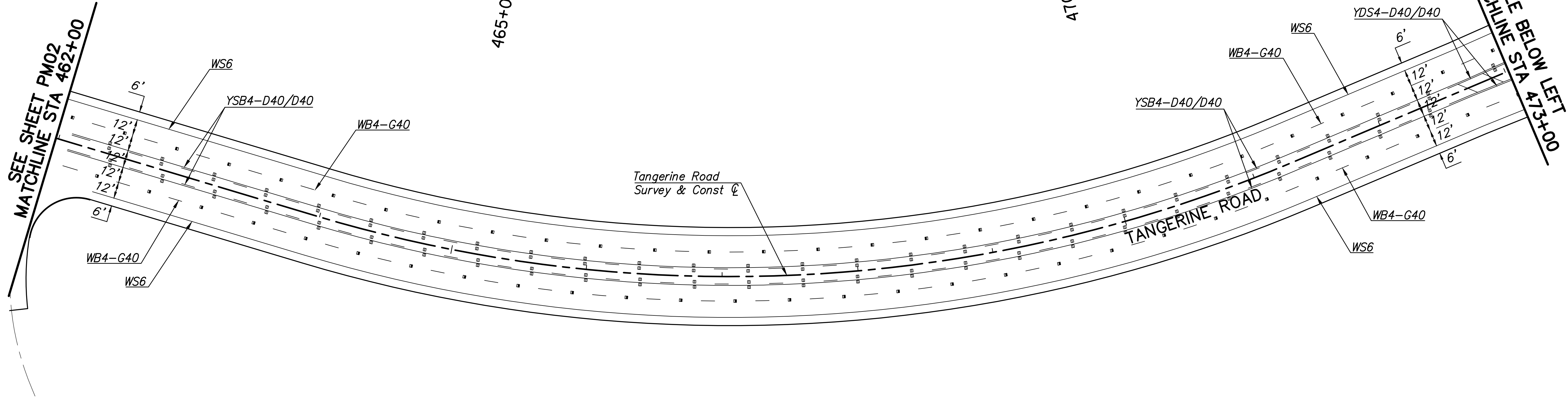
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AA	12/12

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SHEET PM03 OF PM18

PAGE1280F 143

TOWN OF MARANA - PROJECT NO. 2005-061

PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 462+00.00 TO STA 484+00.00
TANGERINE ROAD

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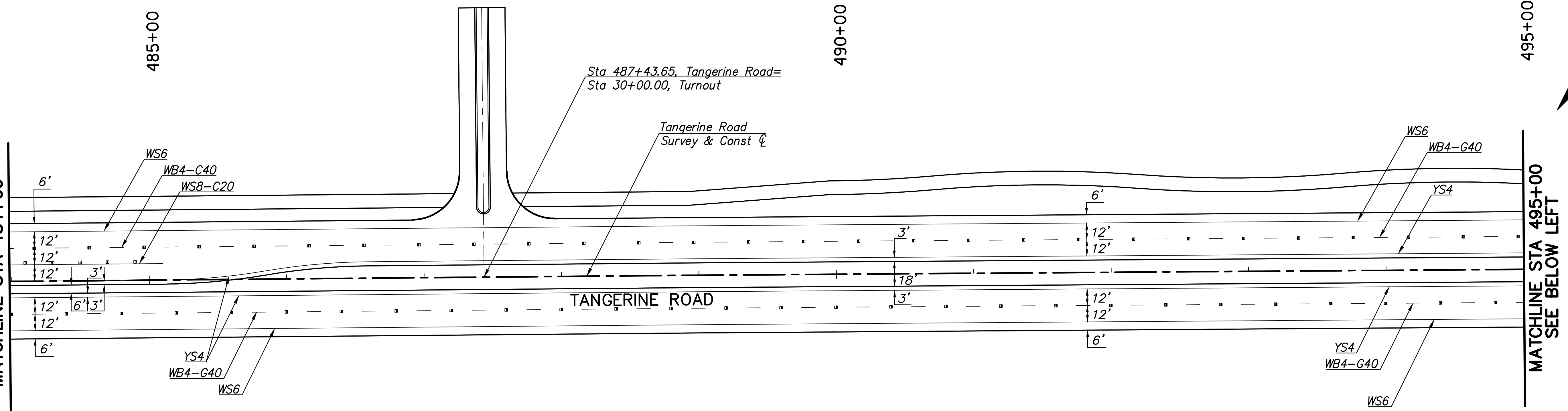
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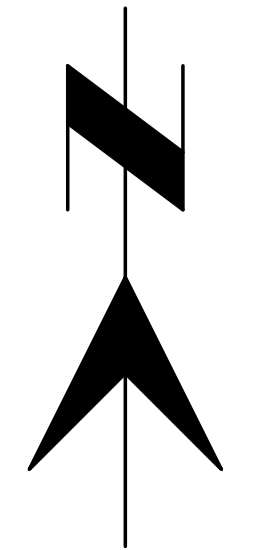
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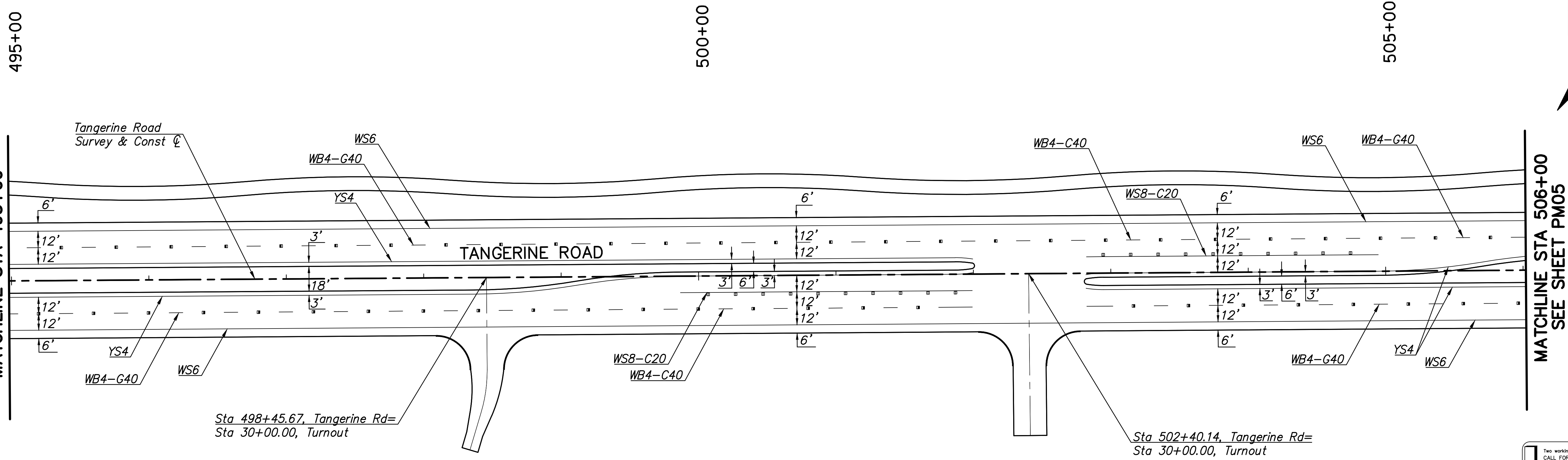
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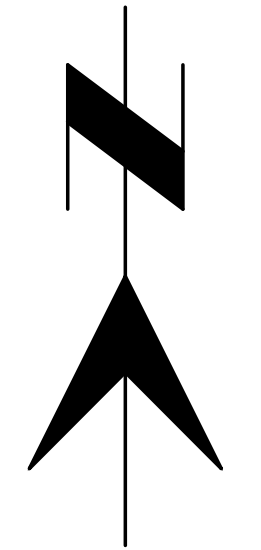
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SEE ABOVE RIGHT
MATCHLINE STA 495+00



MATCHLINE STA 506+00
SEE SHEET PM05



Sta 498+45.67, Tangerine Rd=
Sta 30+00.00, Turnout

Sta 502+40.14, Tangerine Rd=
Sta 30+00.00, Turnout

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SHEET PM04 OF PM18

PAGE1290F 143

TOWN OF MARANA - PROJECT NO. 2005-061

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STA 484+00.00 TO STA 506+00.00
TANGERINE ROAD

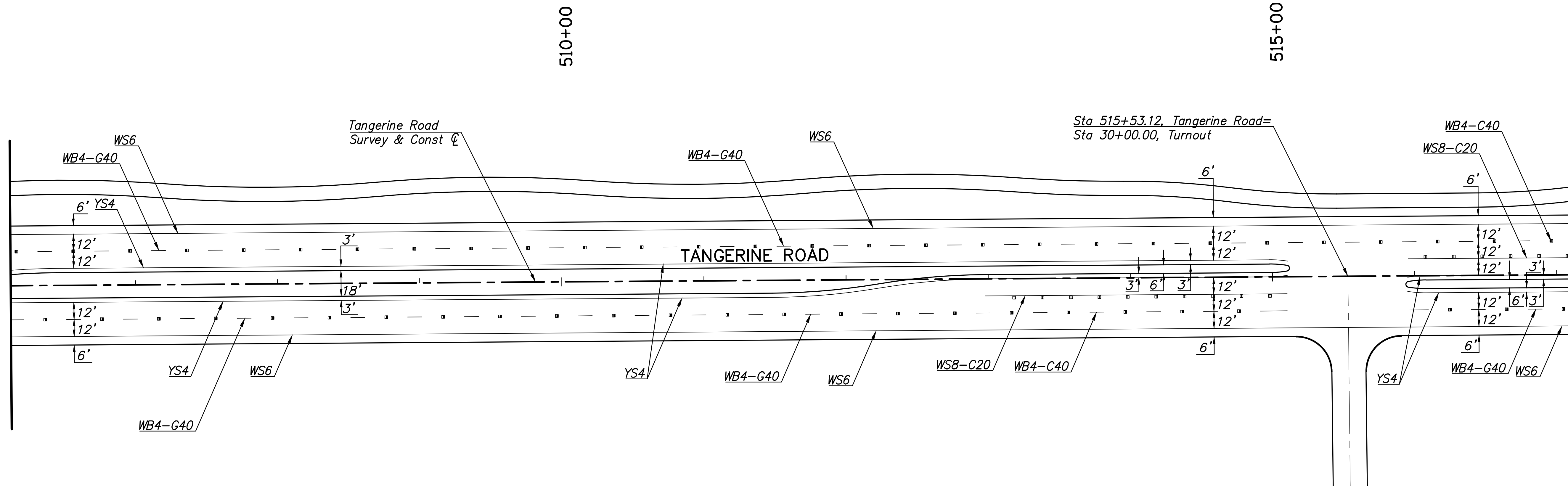
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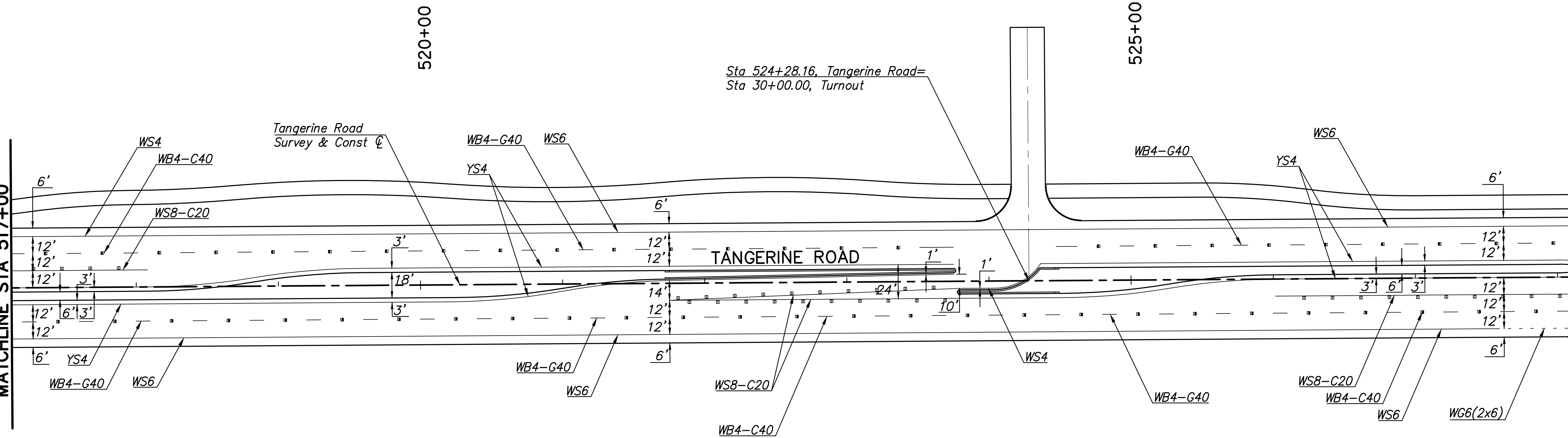
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MATCHLINE STA 506+00



MATCHLINE STA 517+00
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MATCHLINE STA 517+00



MATCHLINE STA 528+00
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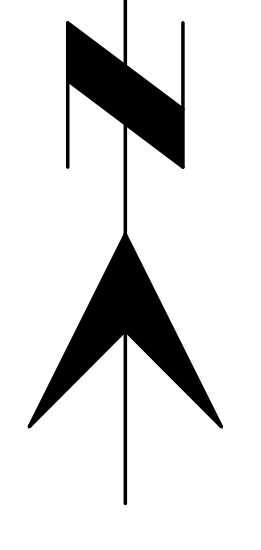
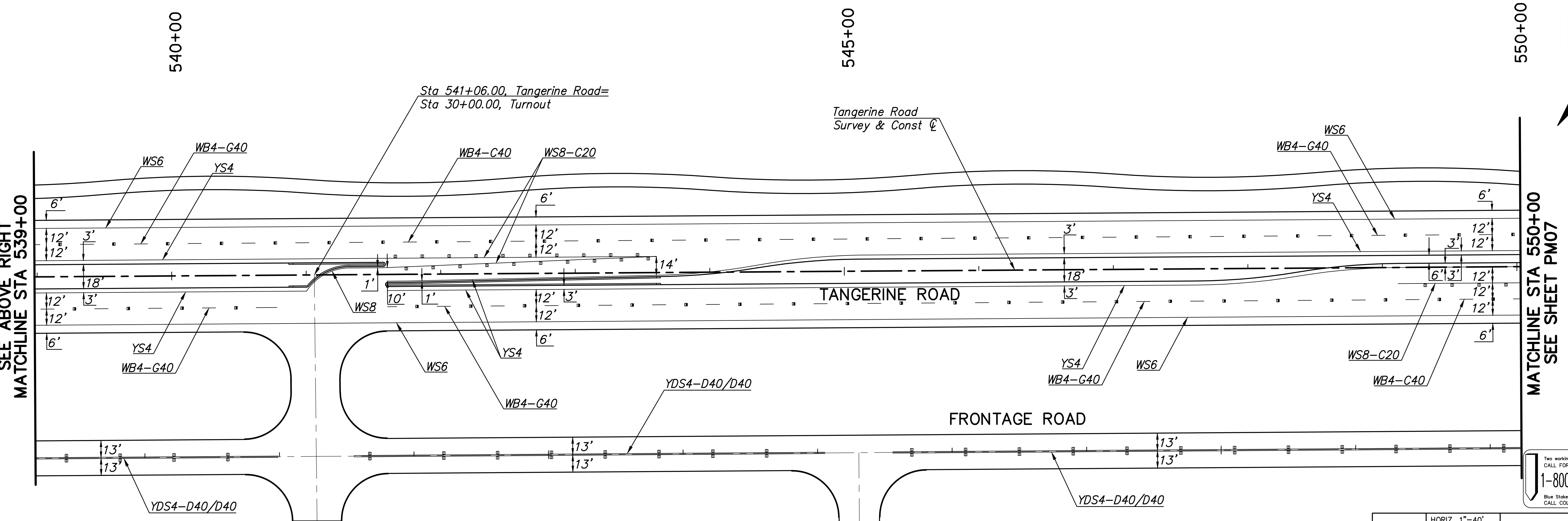
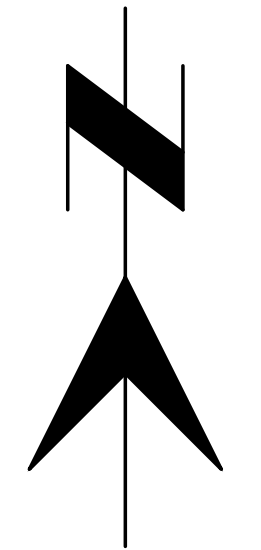
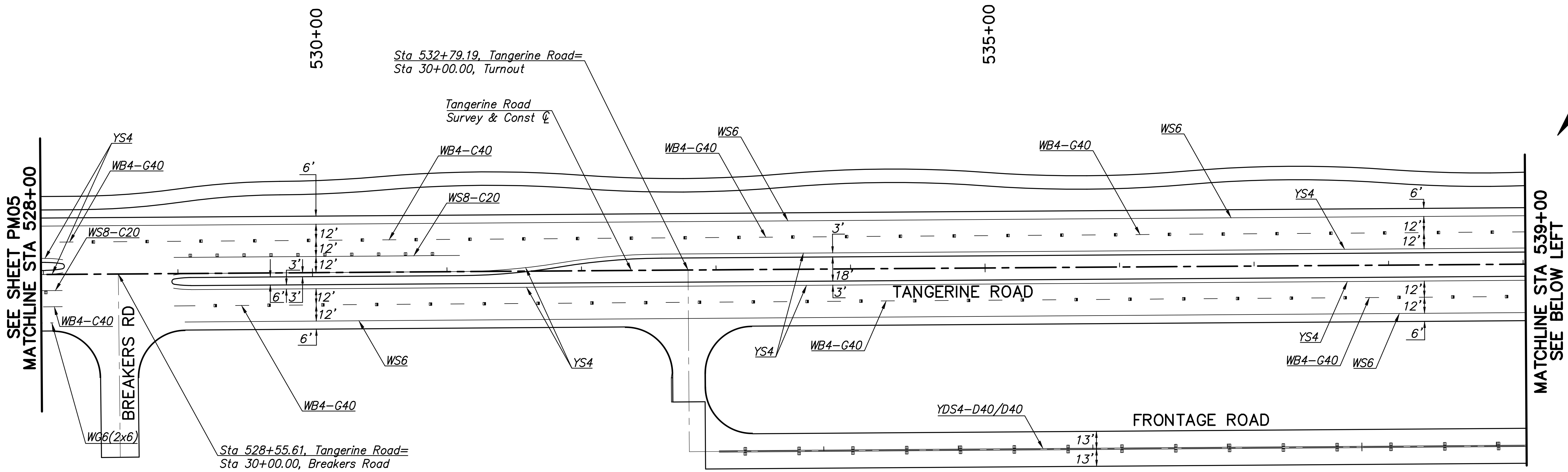
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FOR
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STA 506+00.00 TO STA 528+00.00
TANGERINE ROAD

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SHEET PM06 OF PM18

PAGE 131 OF 143

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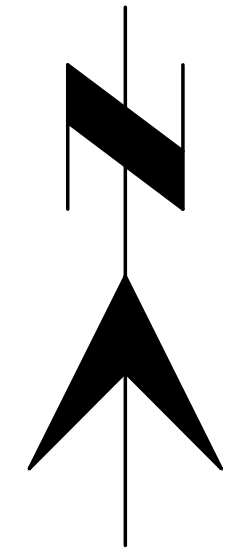
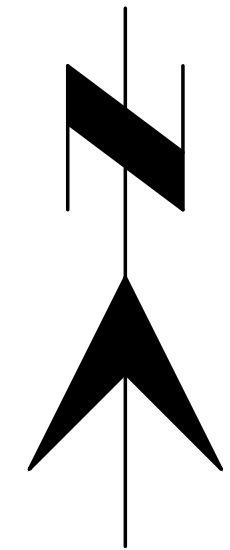
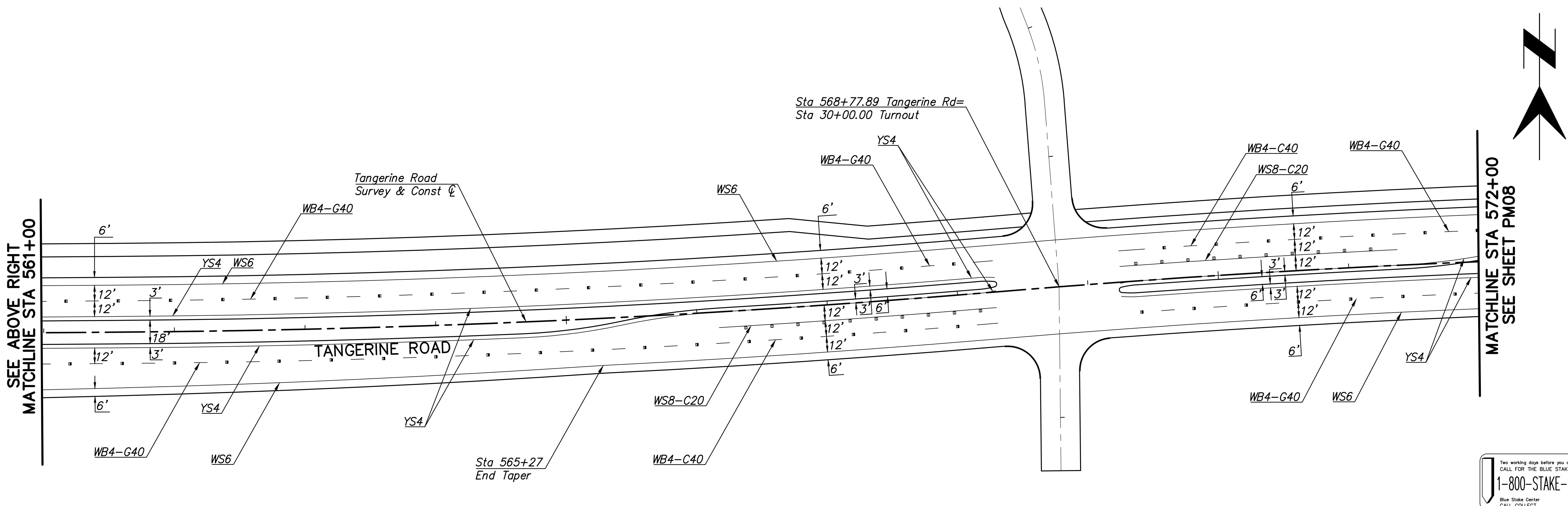
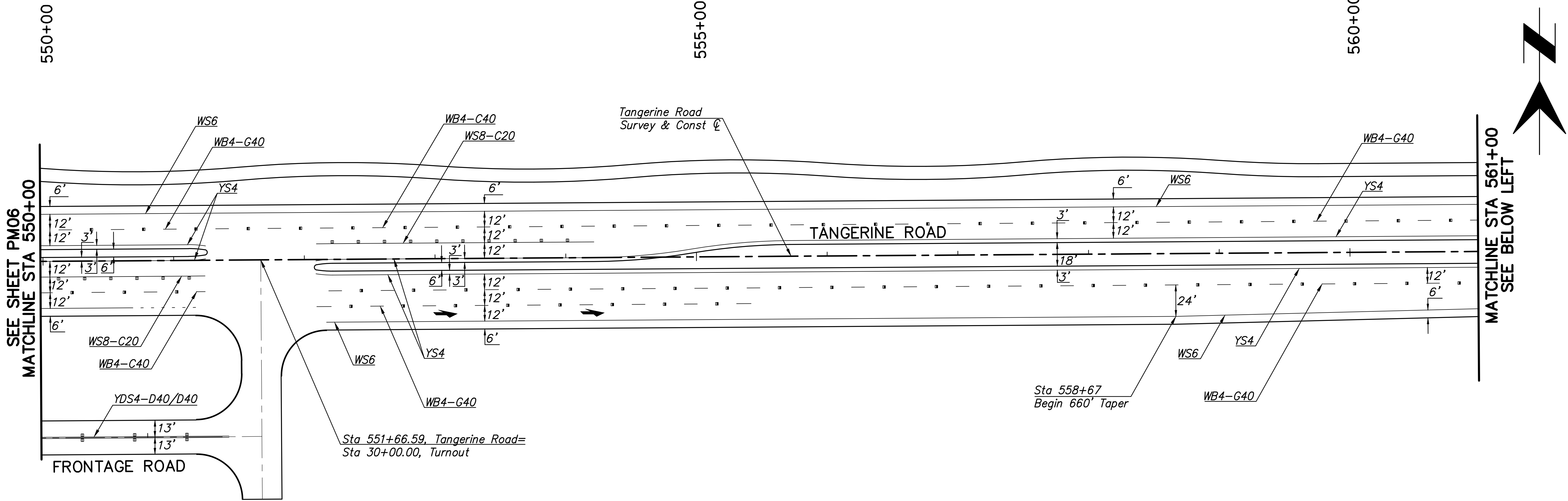
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 STA 528+00.00 TO STA 550+00.00
 TANGERINE ROAD

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SEE SHEET PM06
MATCHLINE STA 550+00

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SEE ABOVE RIGHT
MATCHLINE STA 561+00

MATCHLINE STA 572+00
SEE SHEET PM08

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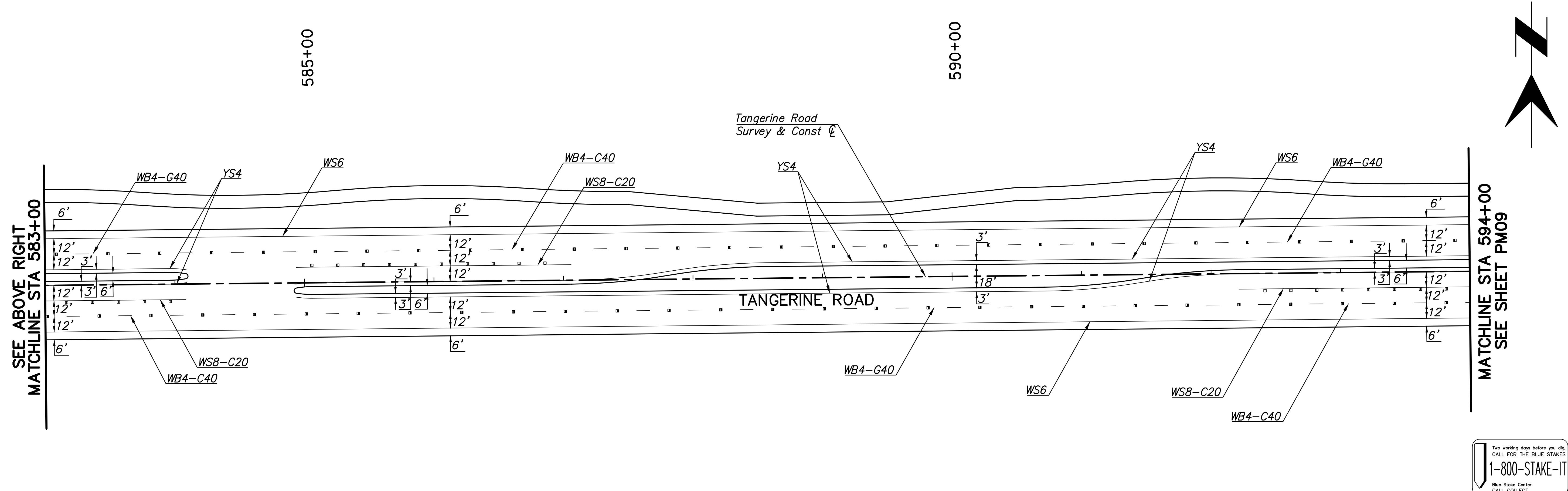
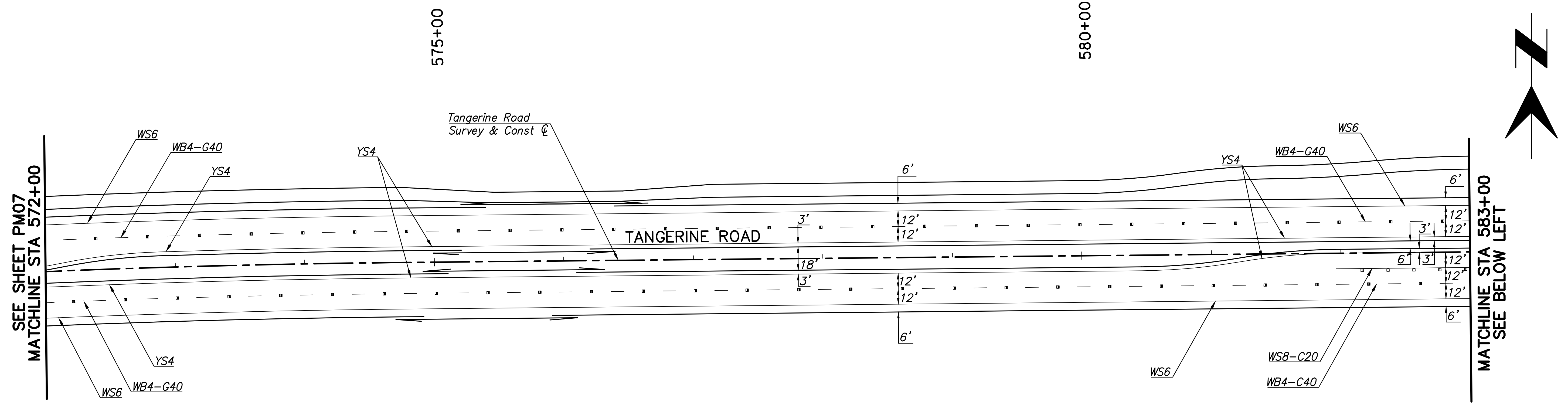
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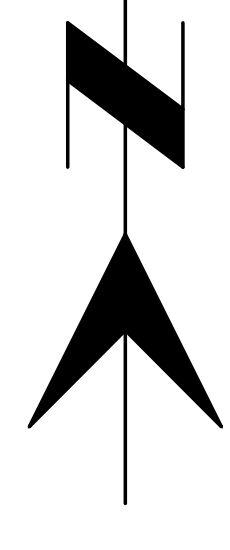
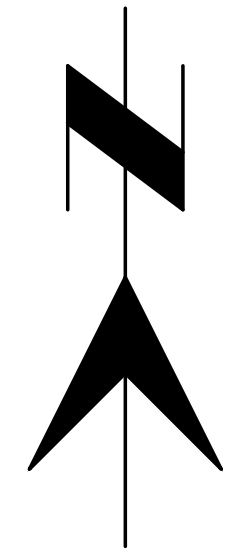
PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 572+00.00 TO STA 594+00.00
TANGERINE ROAD

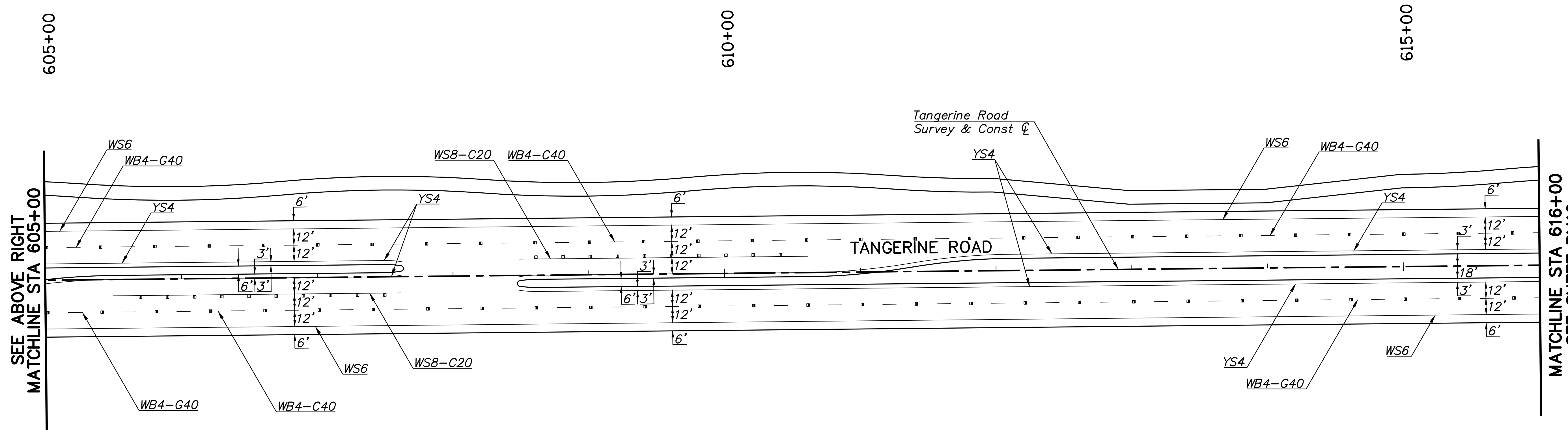
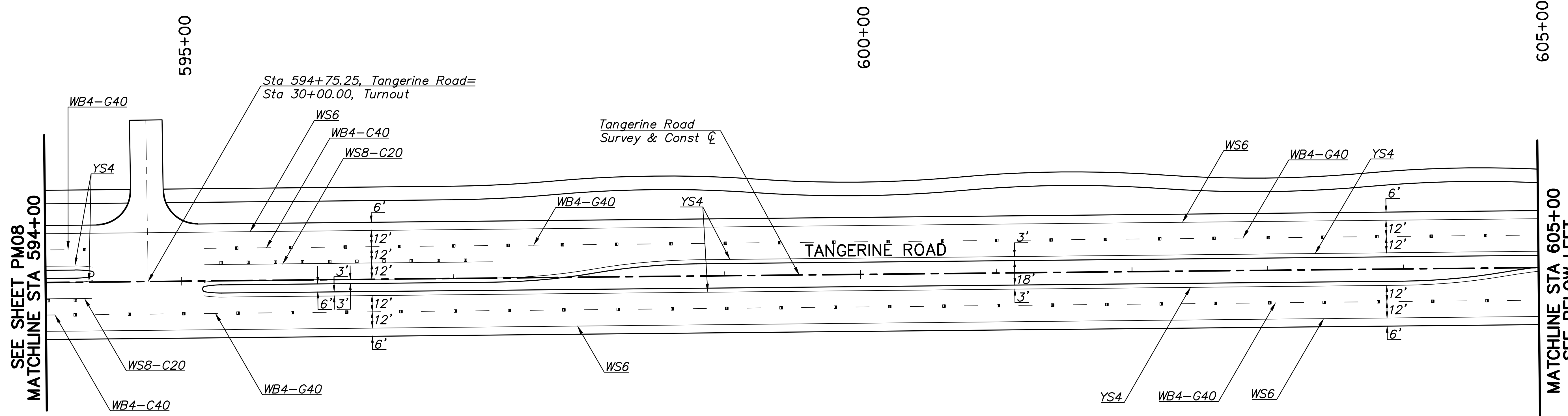
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CZ	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12





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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

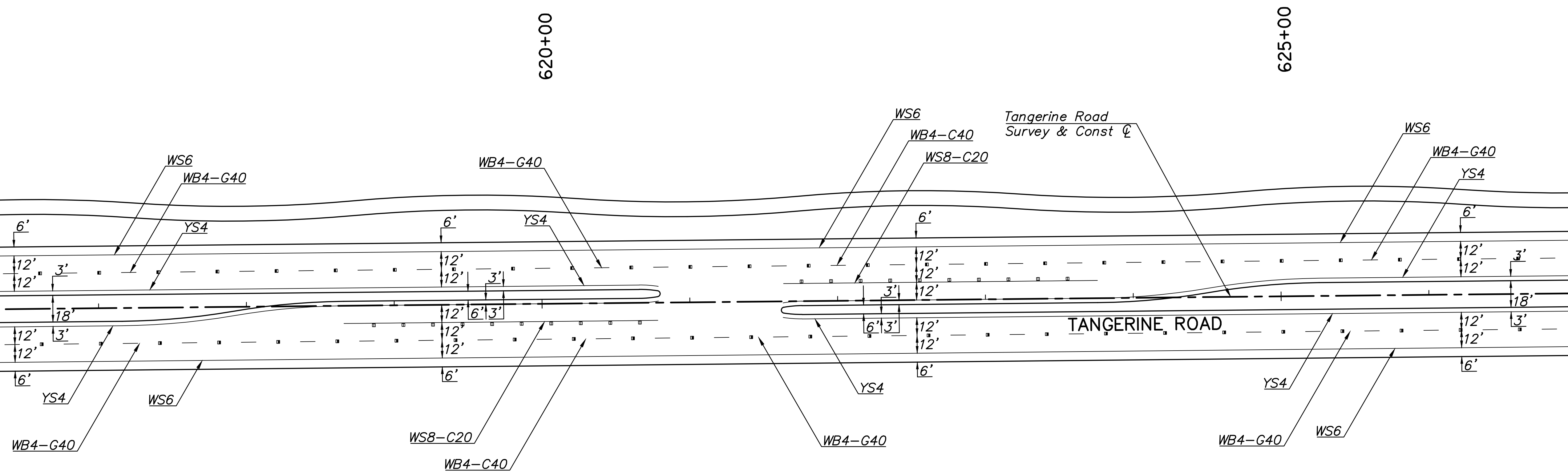
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TOWN OF MARANA - PROJECT NO. 2005-061
PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 594+00.00 TO STA 616+00.00
TANGERINE ROAD

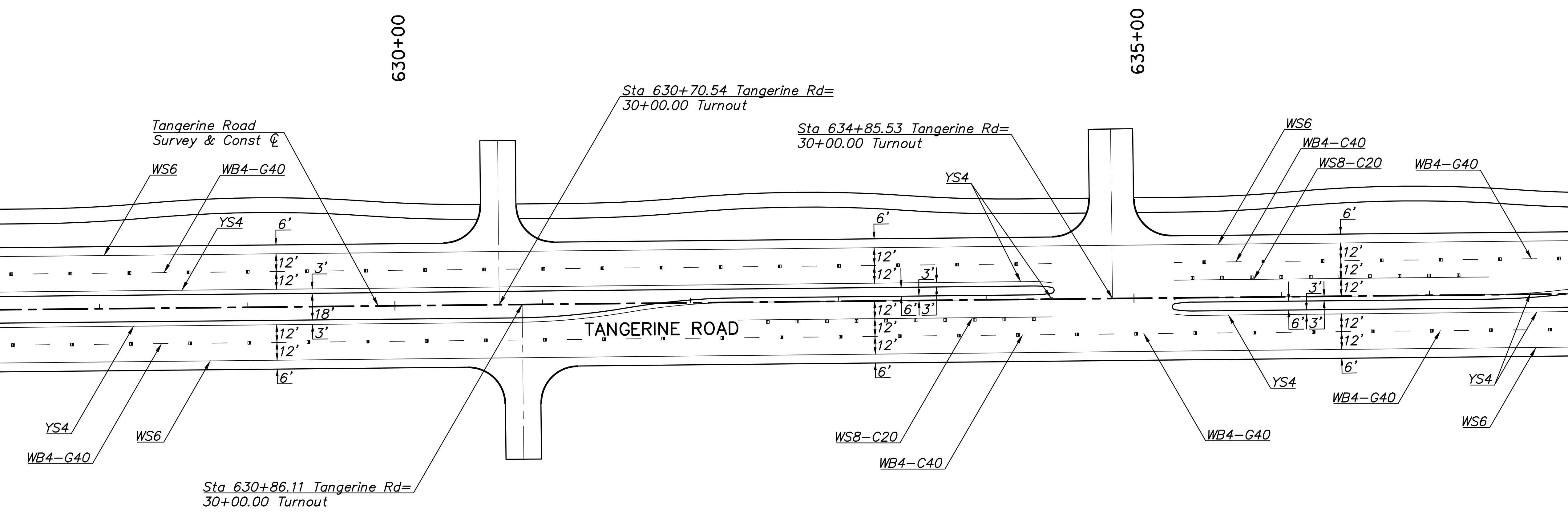
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SEE SHEET PM09
MATCHLINE STA 616+00



MATCHLINE STA 627+00
SEE BELOW LEFT

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MATCHLINE STA 627+00



MATCHLINE STA 638+00
SEE SHEET PM11

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VERT. N/A

SHEET PM10 OF PM18

PAGE1350F 143

TOWN OF MARANA - PROJECT NO. 2005-061
PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 616+00.00 TO STA 638+00.00
TANGERINE ROAD

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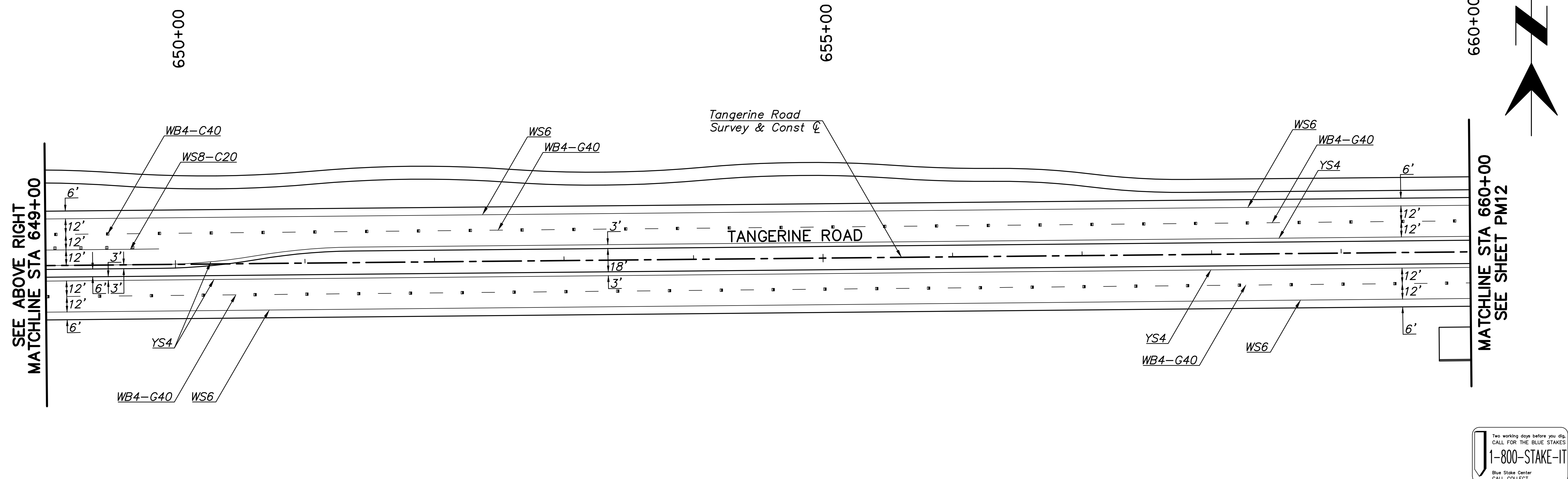
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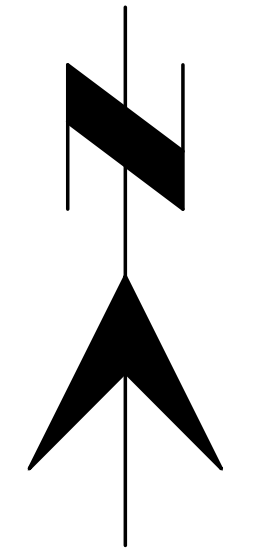
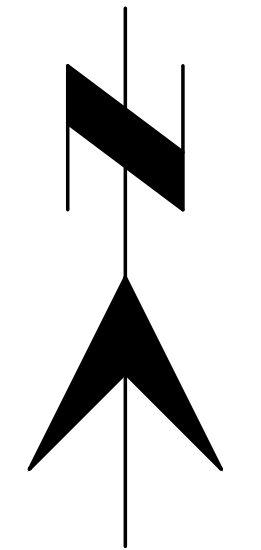
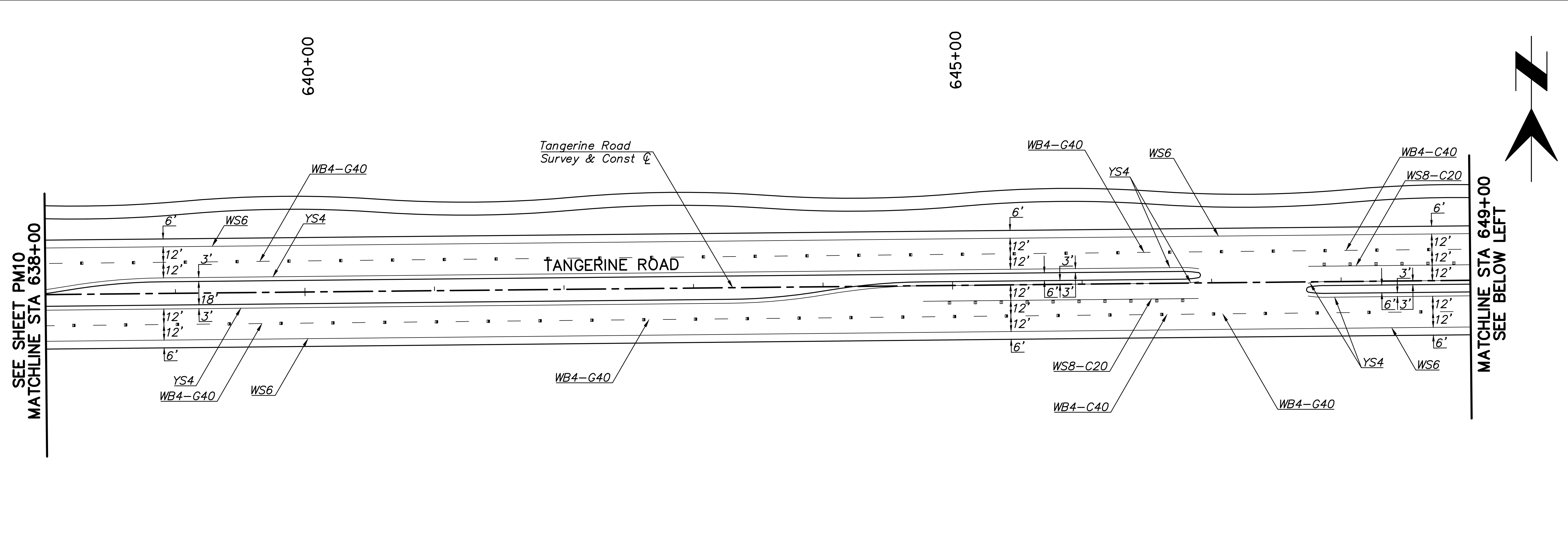
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PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 638+00.00 TO STA 660+00.00
TANGERINE ROAD

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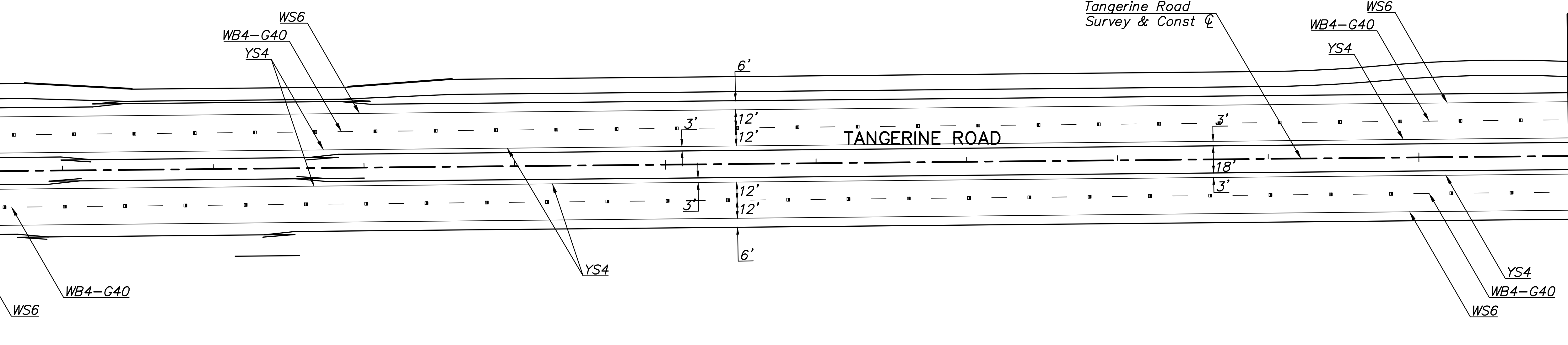
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PROJ. ENG.:	DATE
AA	12/12

660+00
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 MATCHLINE STA 660+00

665+00

670+00

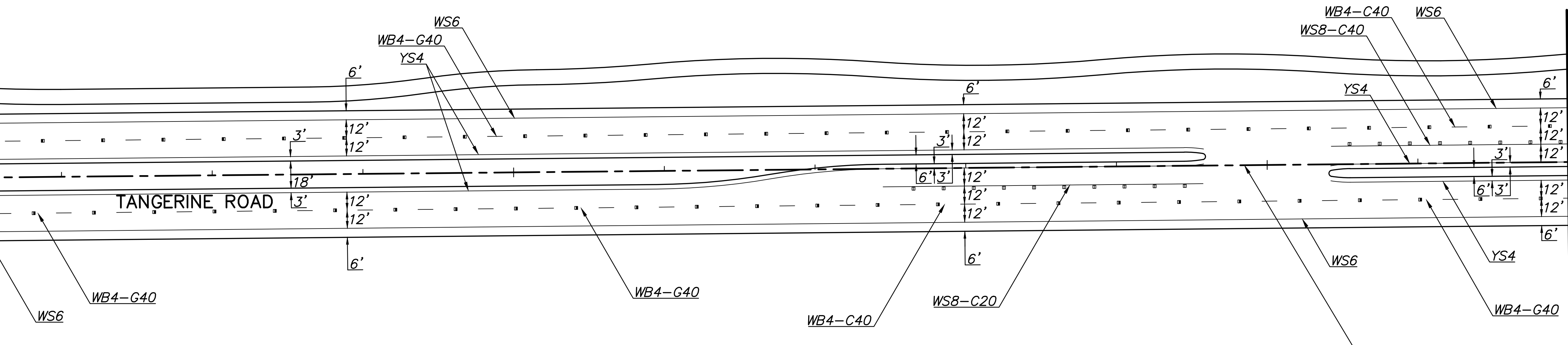


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SEE ABOVE RIGHT
 MATCHLINE STA 671+00

675+00

680+00



MATCHLINE STA 682+00
 SEE SHEET PM13

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SCALES: HORIZ. 1"=40'
 VERT. N/A

TOWN OF MARANA - PROJECT NO. 2005-061

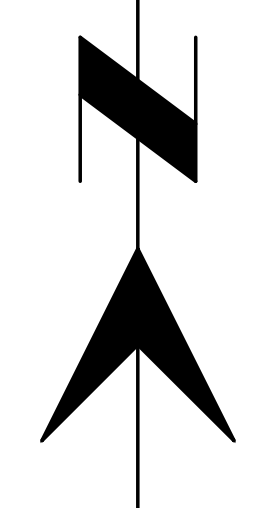
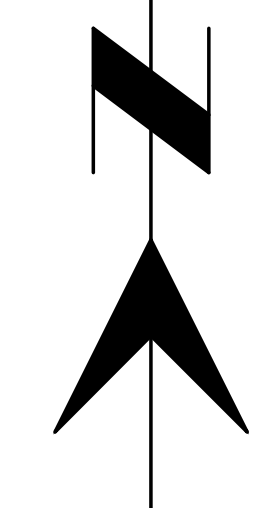
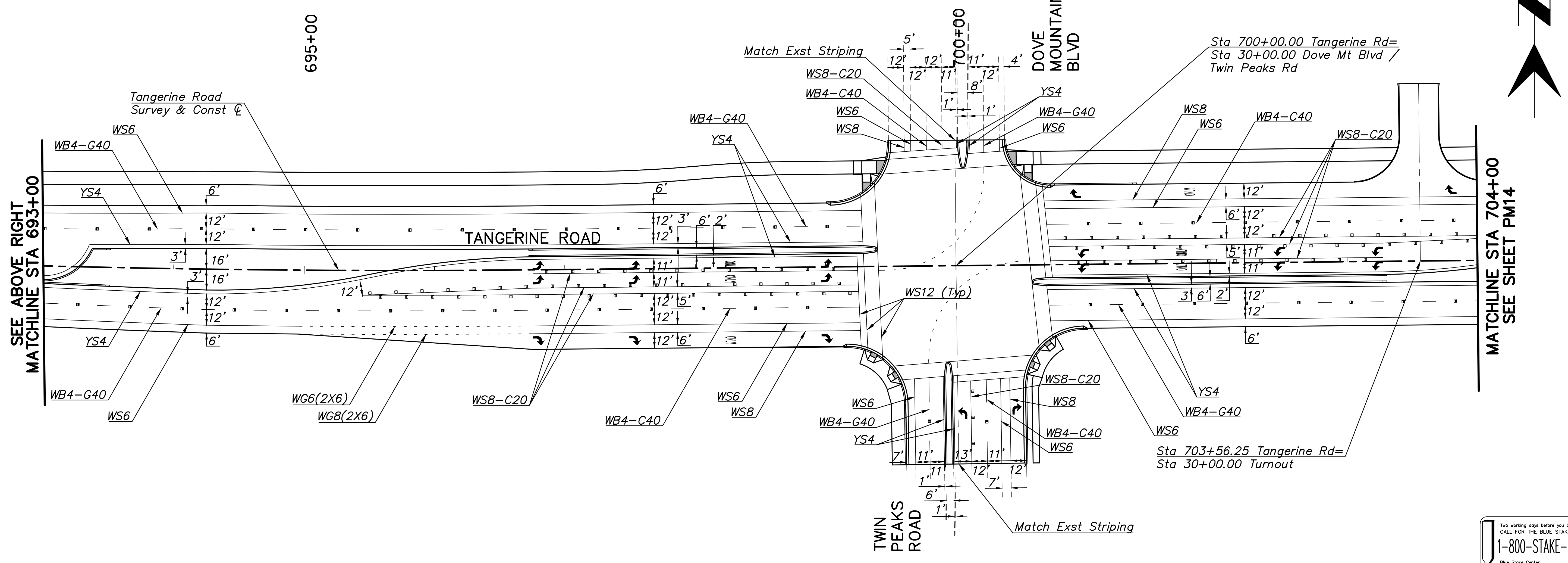
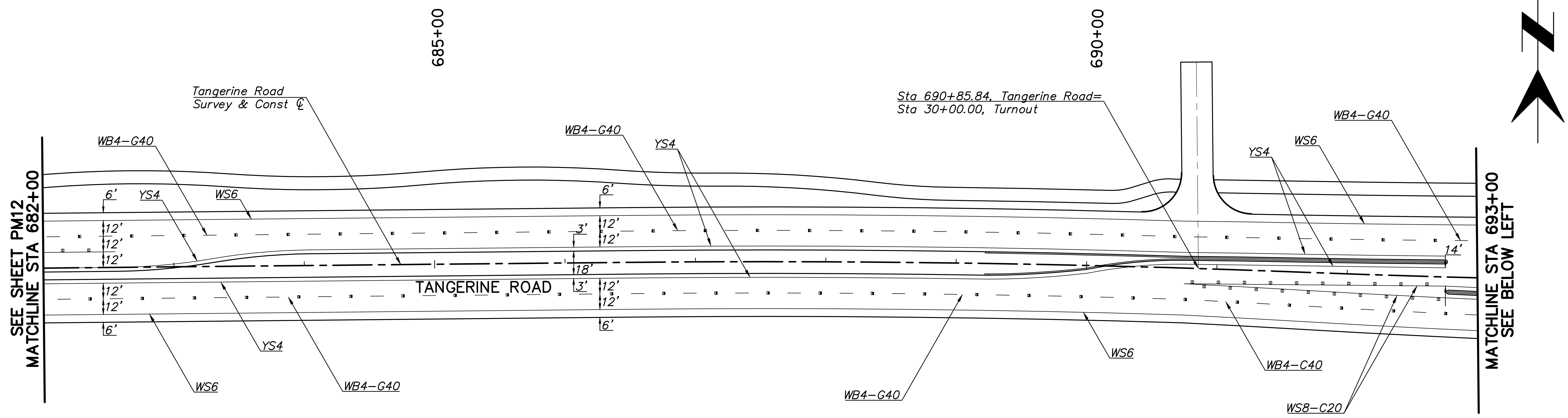
PAVEMENT MARKING PLANS
 FOR
TANGERINE ROAD
 STA 660+00.00 TO STA 682+00.00
 TANGERINE ROAD

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DRAWN:	DATE
CZ	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

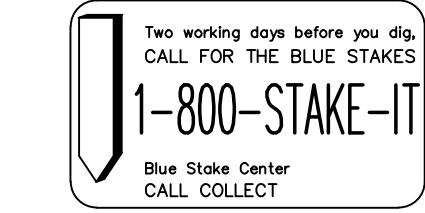


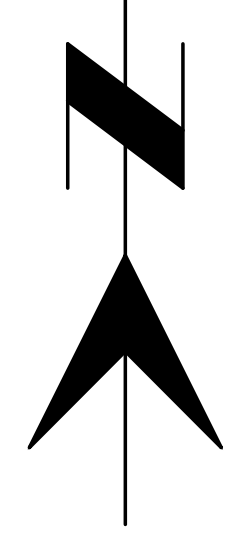
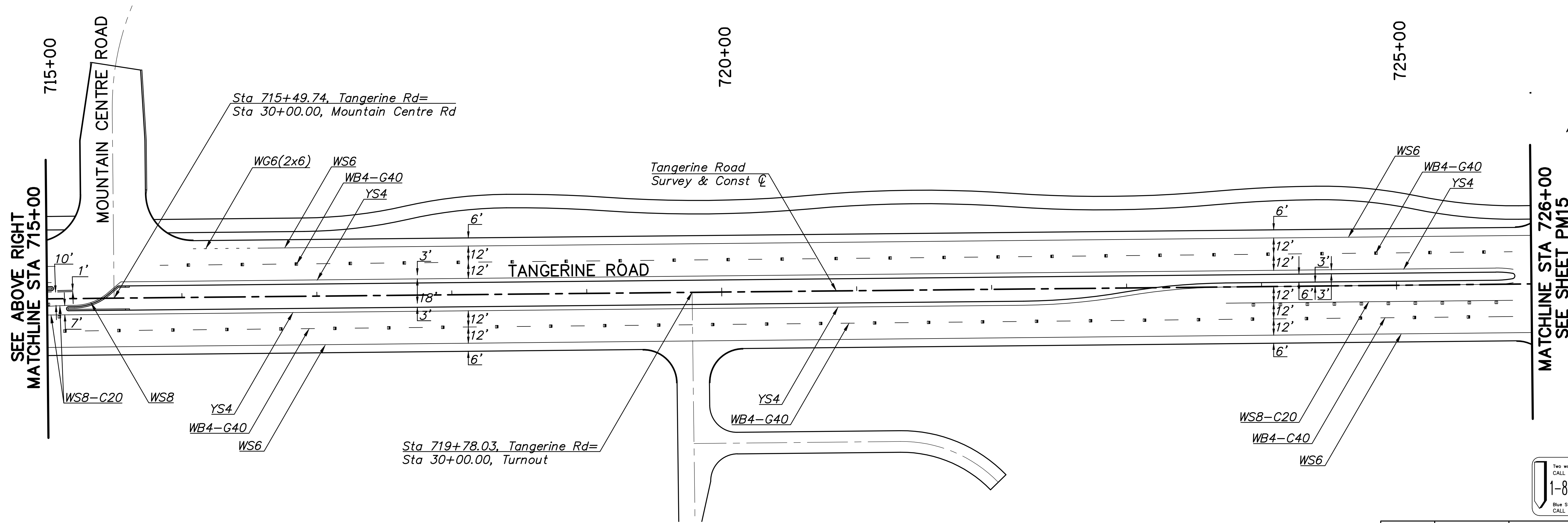
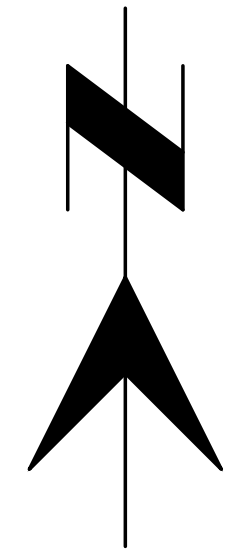
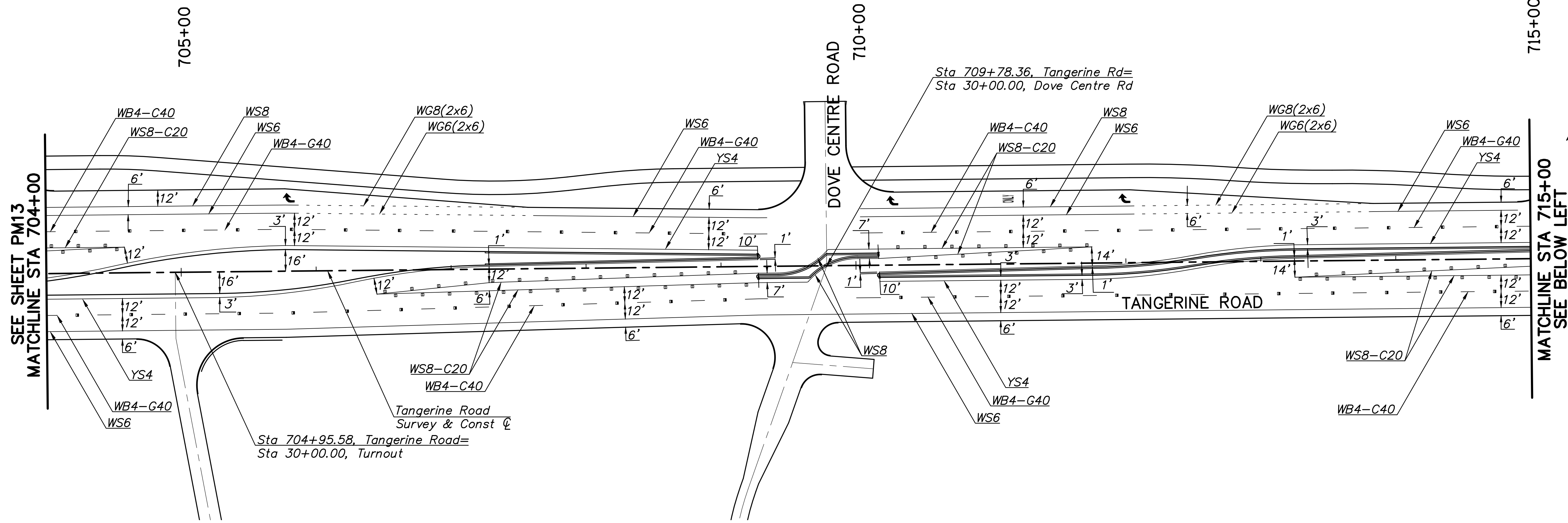
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TOWN OF MARANA - PROJECT NO. 2005-061
PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 682+00.00 TO STA 704+00.00
TANGERINE ROAD





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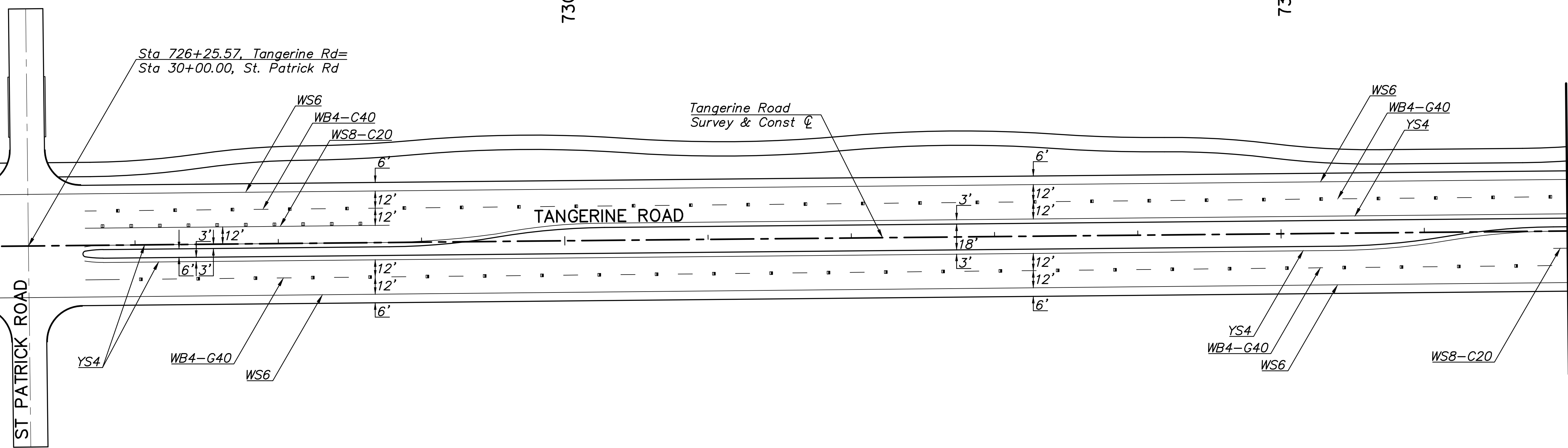
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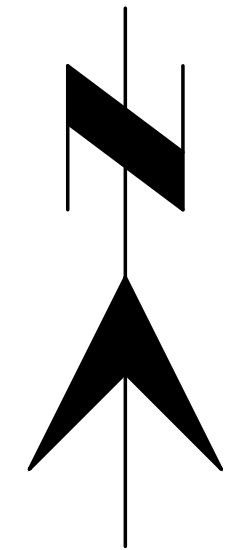
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PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 704+00.00 TO STA 726+00.00
TANGERINE ROAD

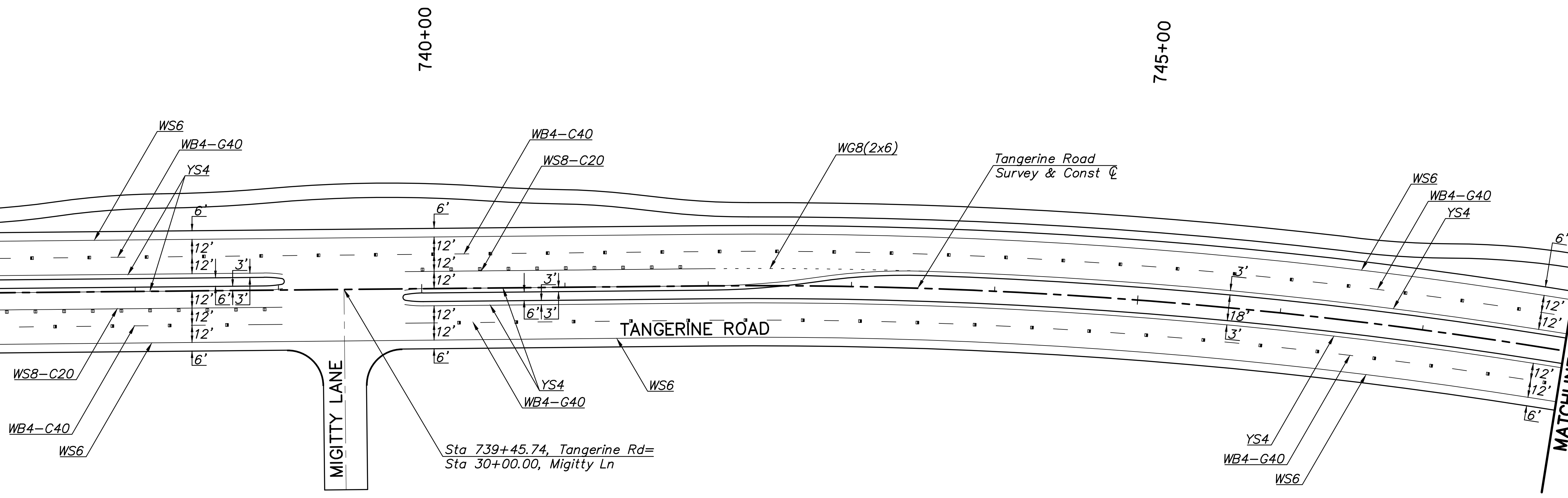
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MATCHLINE STA 726+00



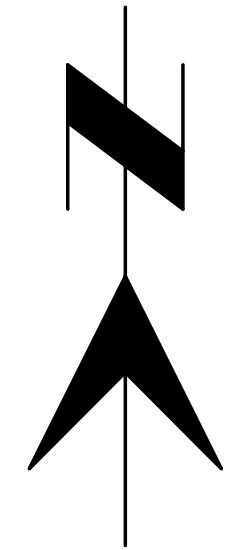
MATCHLINE STA 737+00
SEE BELOW LEFT



SEE ABOVE RIGHT
MATCHLINE STA 737+00



MATCHLINE STA 748+00
SEE SHEET PM16



Sta 726+25.57, Tangerine Rd=
Sta 30+00.00, St. Patrick Rd

Sta 739+45.74, Tangerine Rd=
Sta 30+00.00, Migitty Ln

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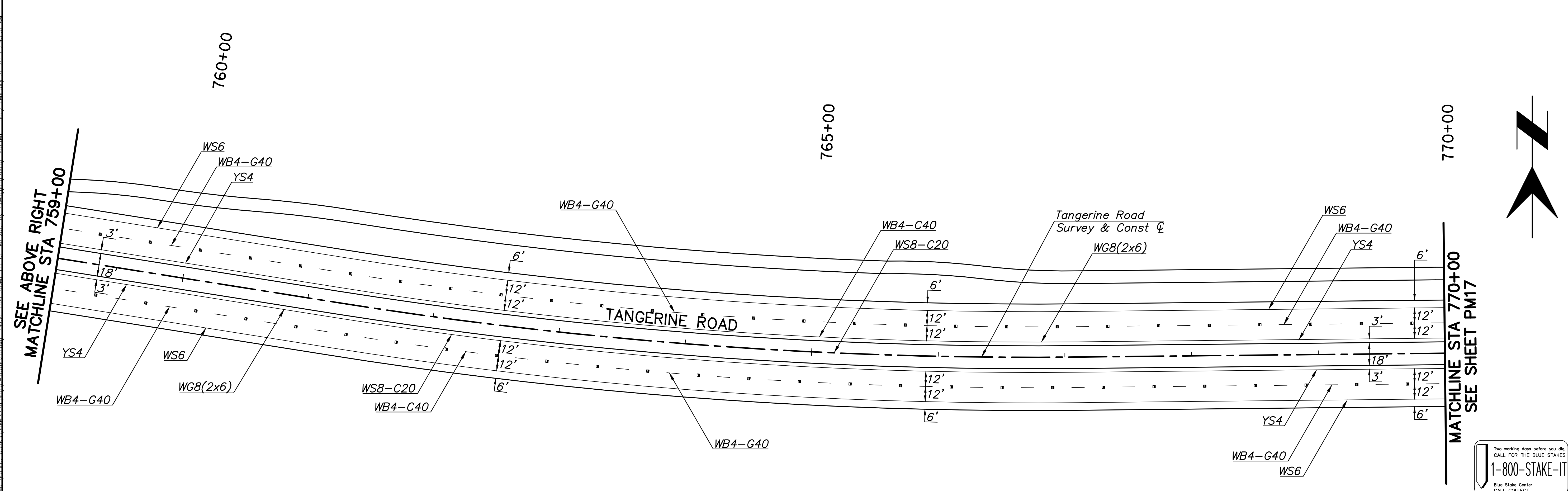
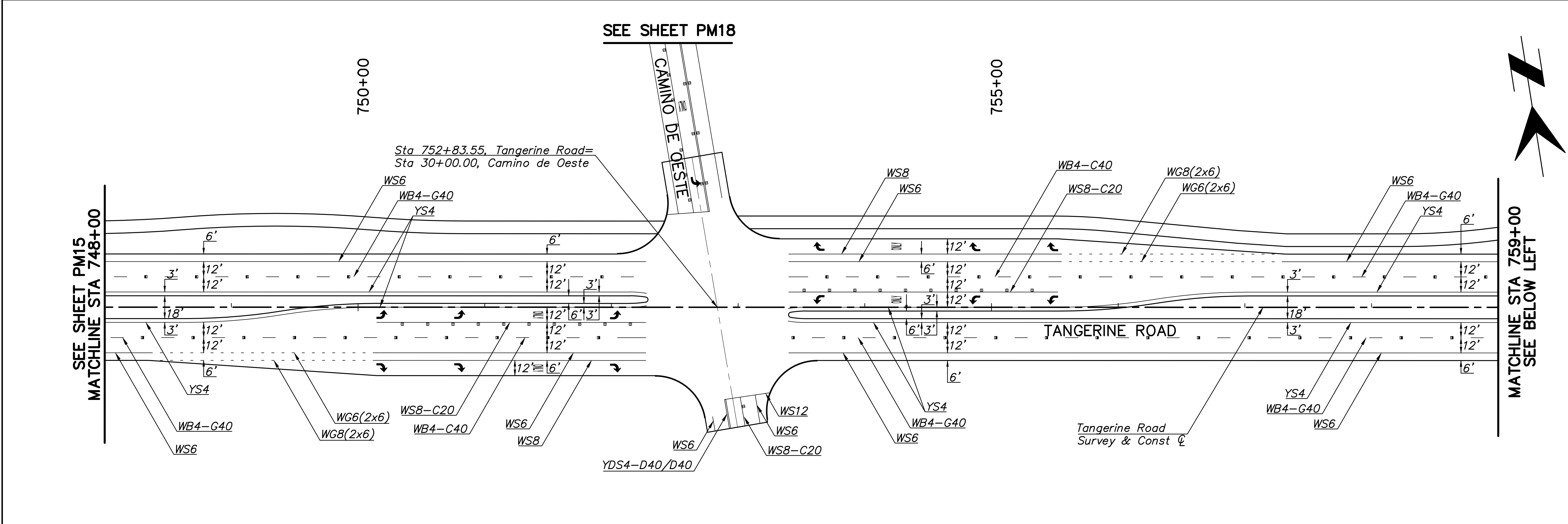
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PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 726+00.00 TO STA 748+00.00
TANGERINE ROAD



SEE SHEET PM18

Sta 752+83.55, Tangerine Road=
Sta 30+00.00, Camino de Oeste

MATCHLINE STA 759+00
SEE BELOW LEFT

SEE ABOVE RIGHT
MATCHLINE STA 759+00

MATCHLINE STA 770+00
SEE SHEET PM17

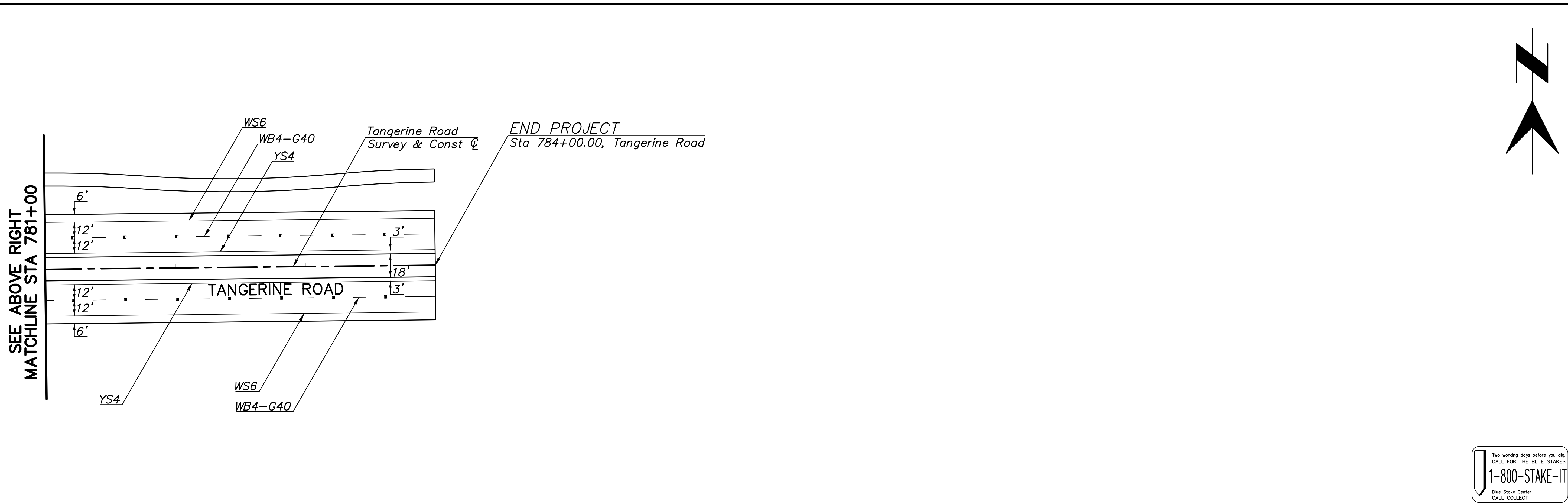
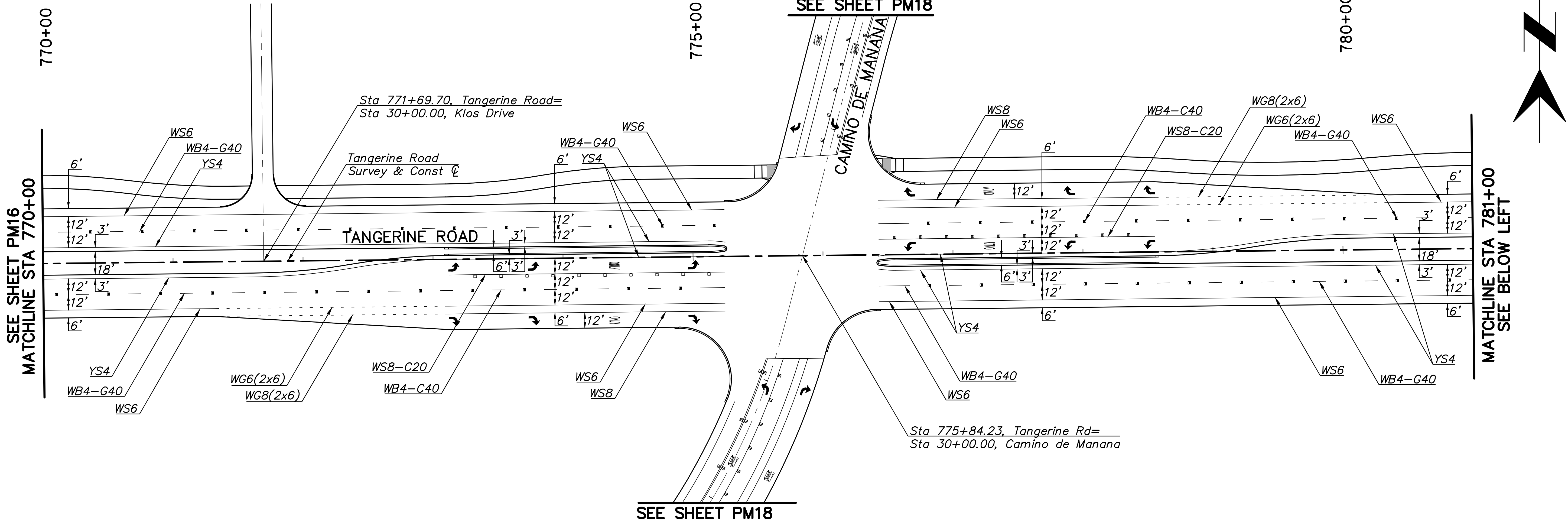
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Blue Stake Center
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PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 748+00.00 TO STA 770+00.00
TANGERINE ROAD



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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

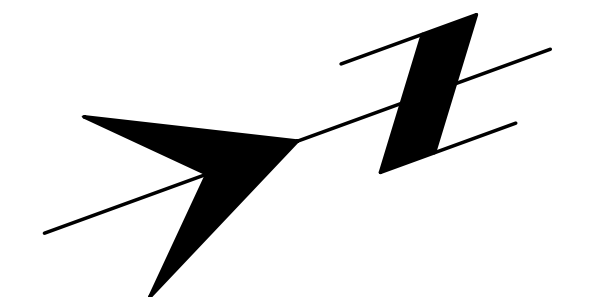
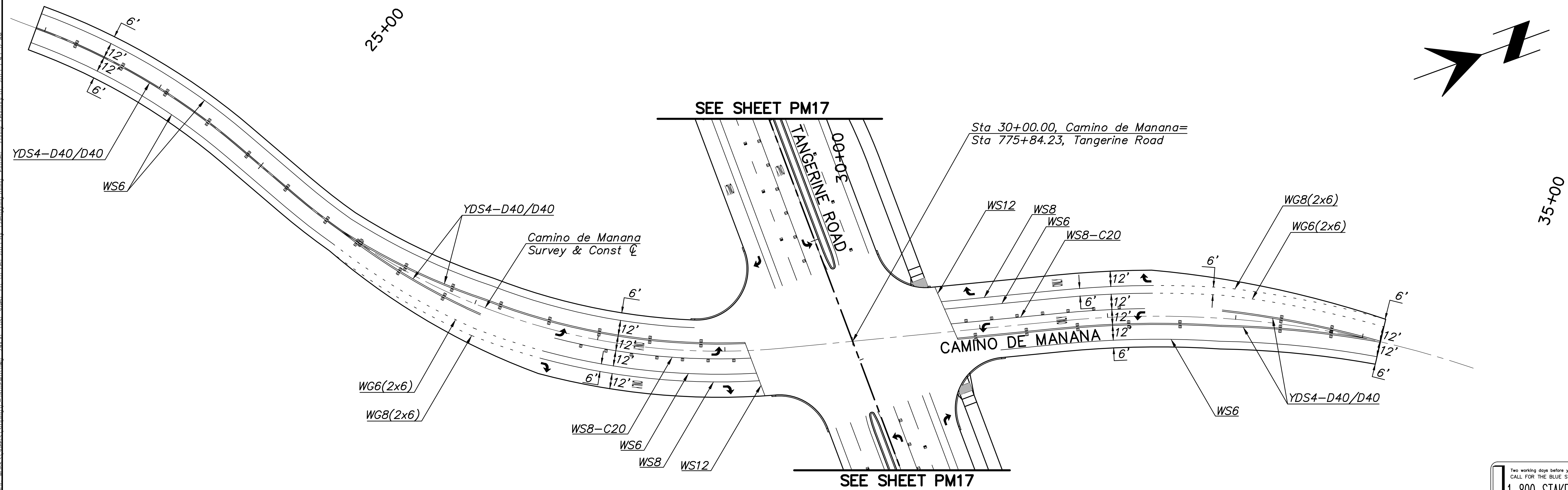
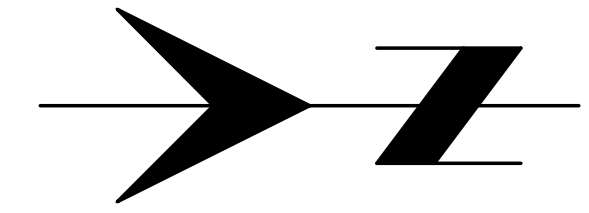
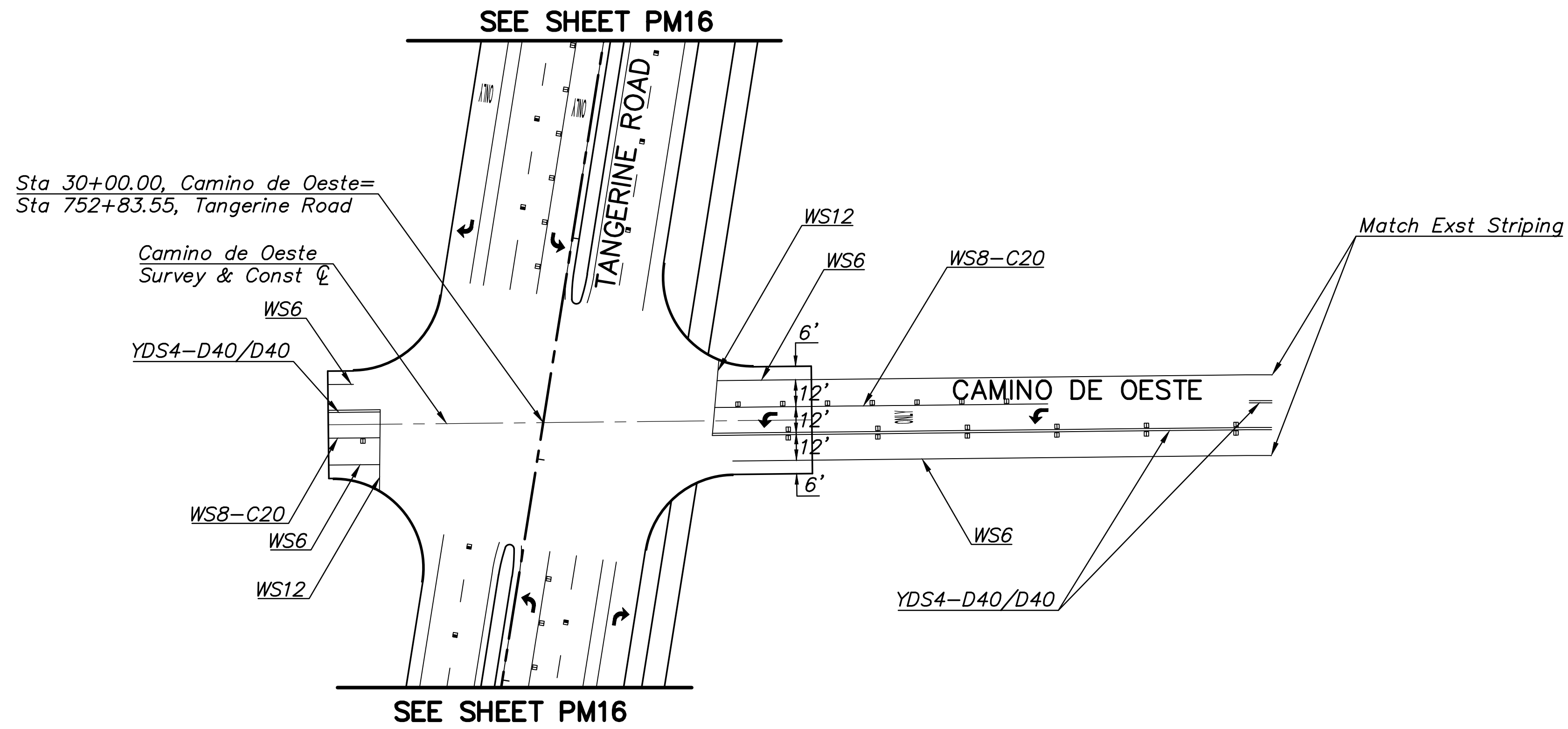
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PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
STA 770+00.00 TO STA 784+00.00
TANGERINE ROAD

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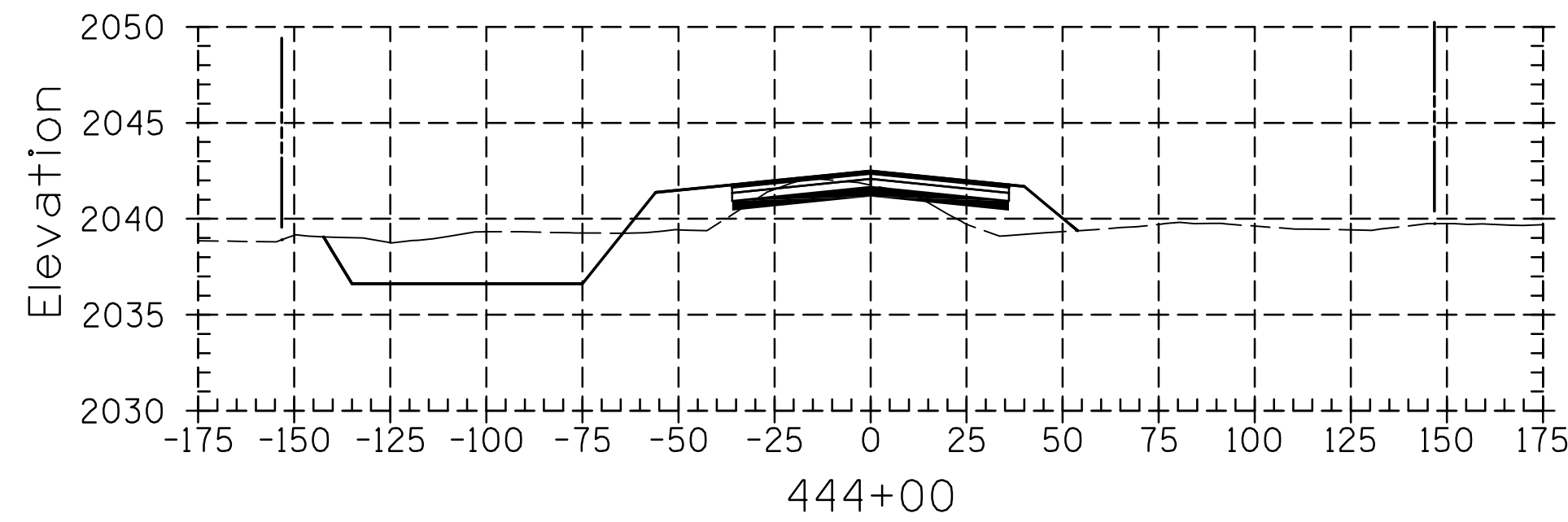
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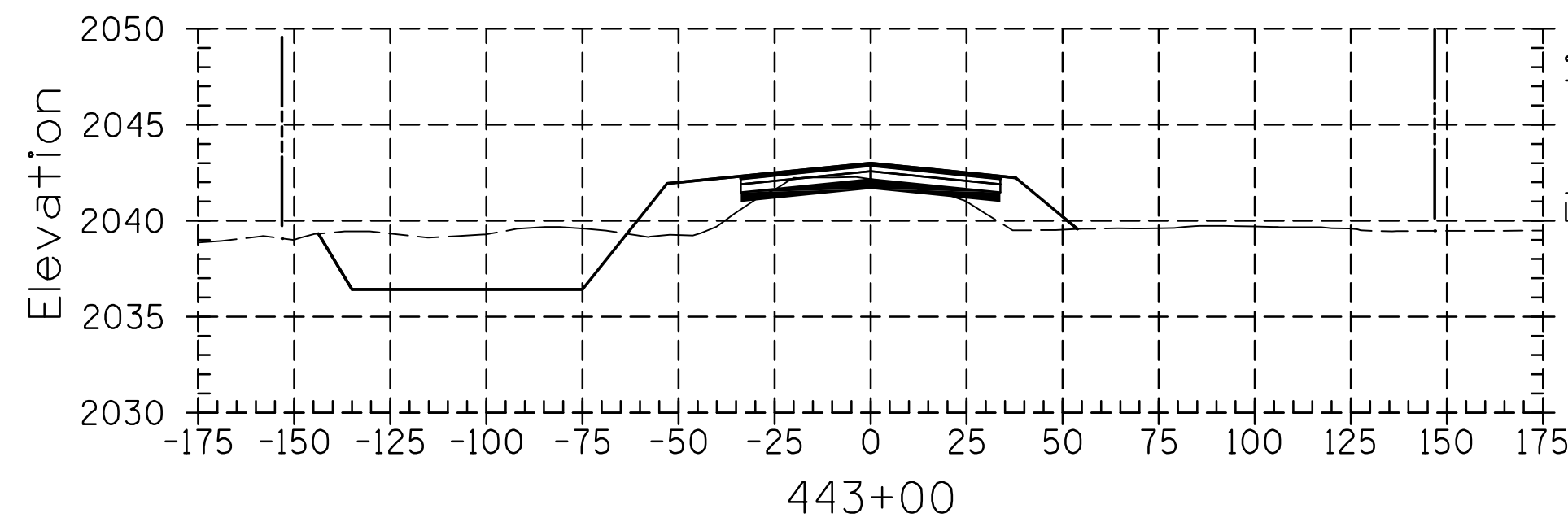
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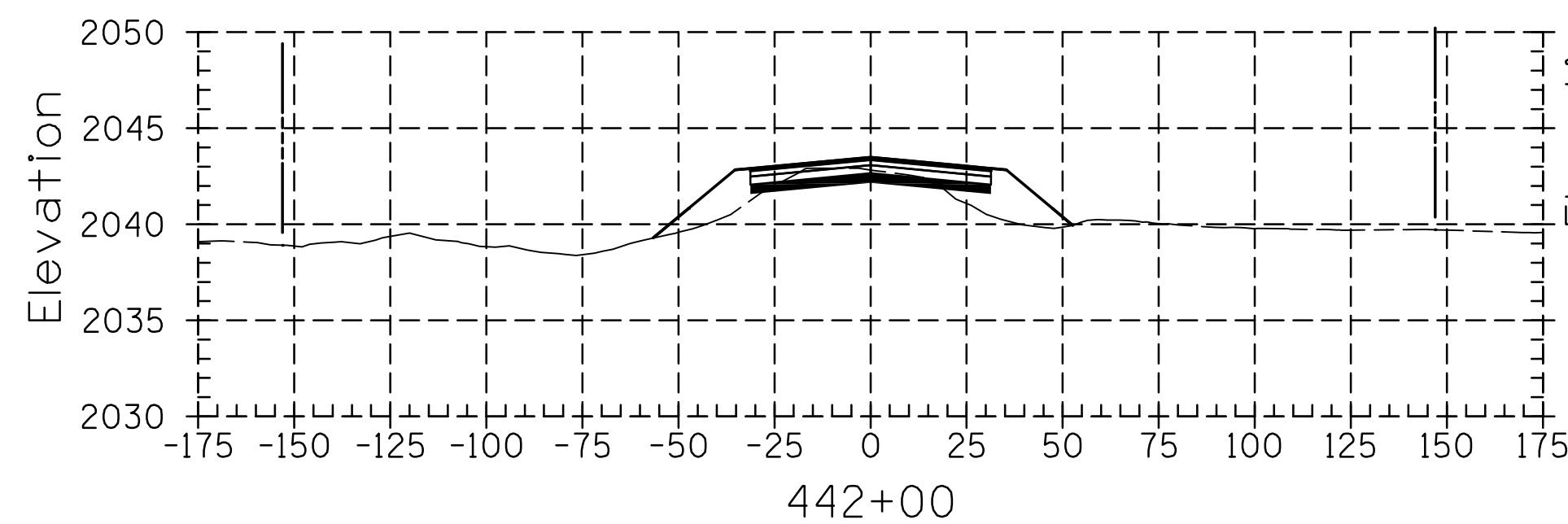
TOWN OF MARANA - PROJECT NO. 2005-061
PAVEMENT MARKING PLANS
FOR
TANGERINE ROAD
C/MO DE OESTE & C/MO DE MANANA



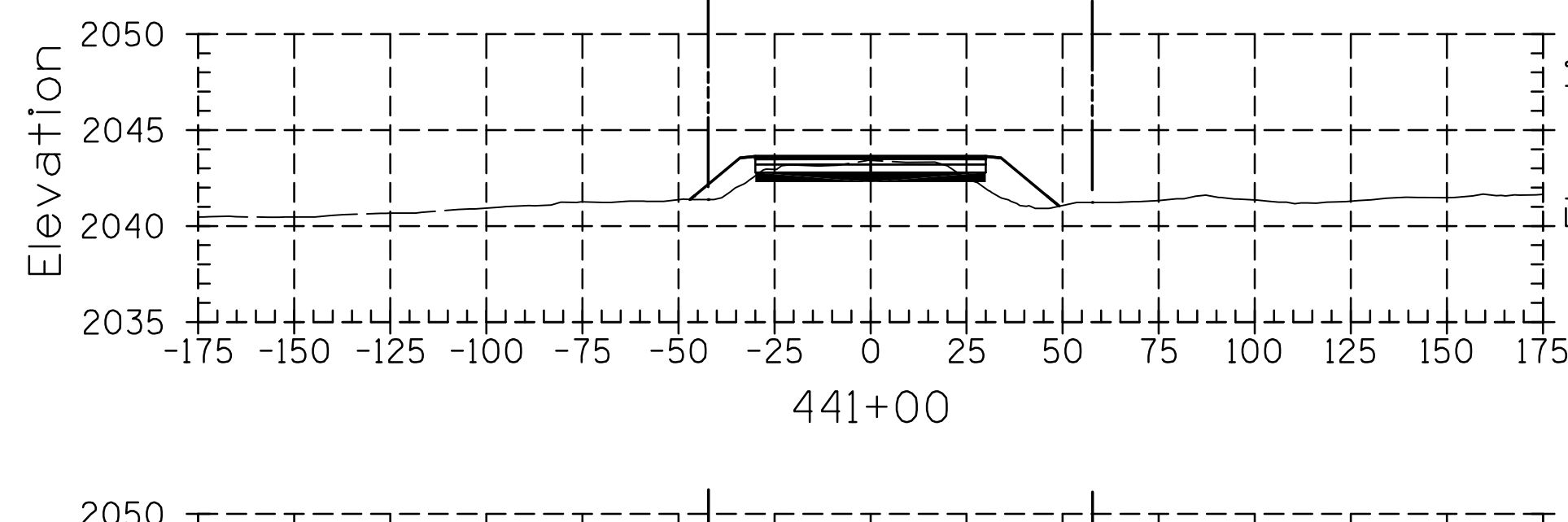
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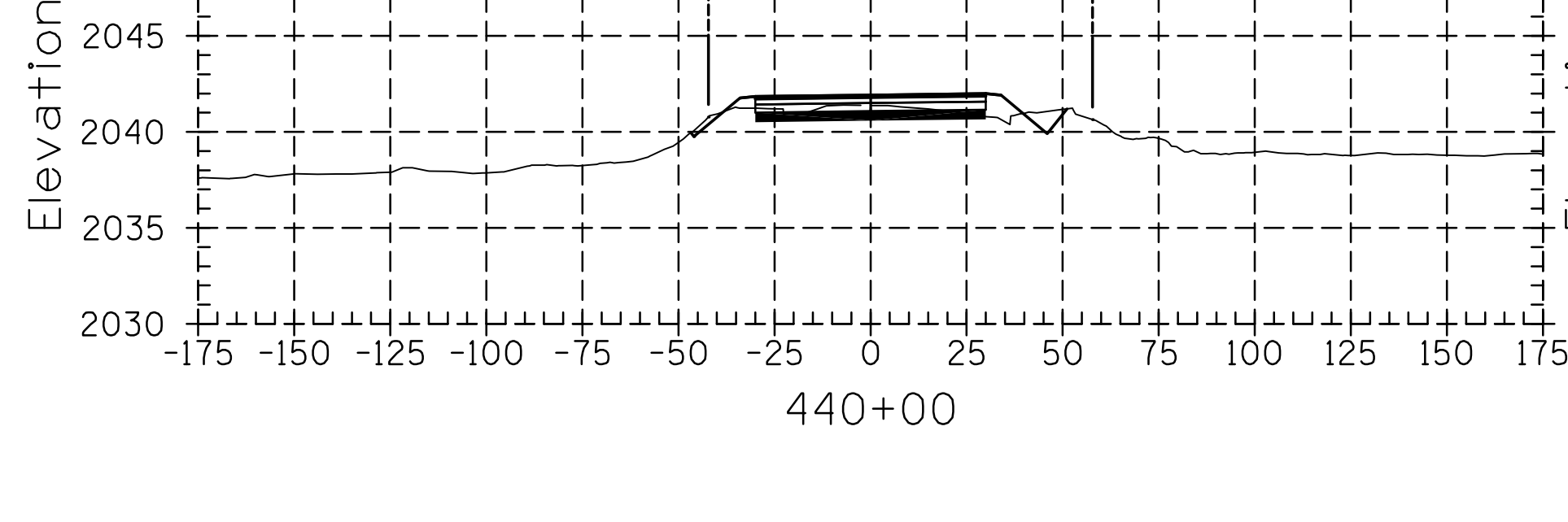
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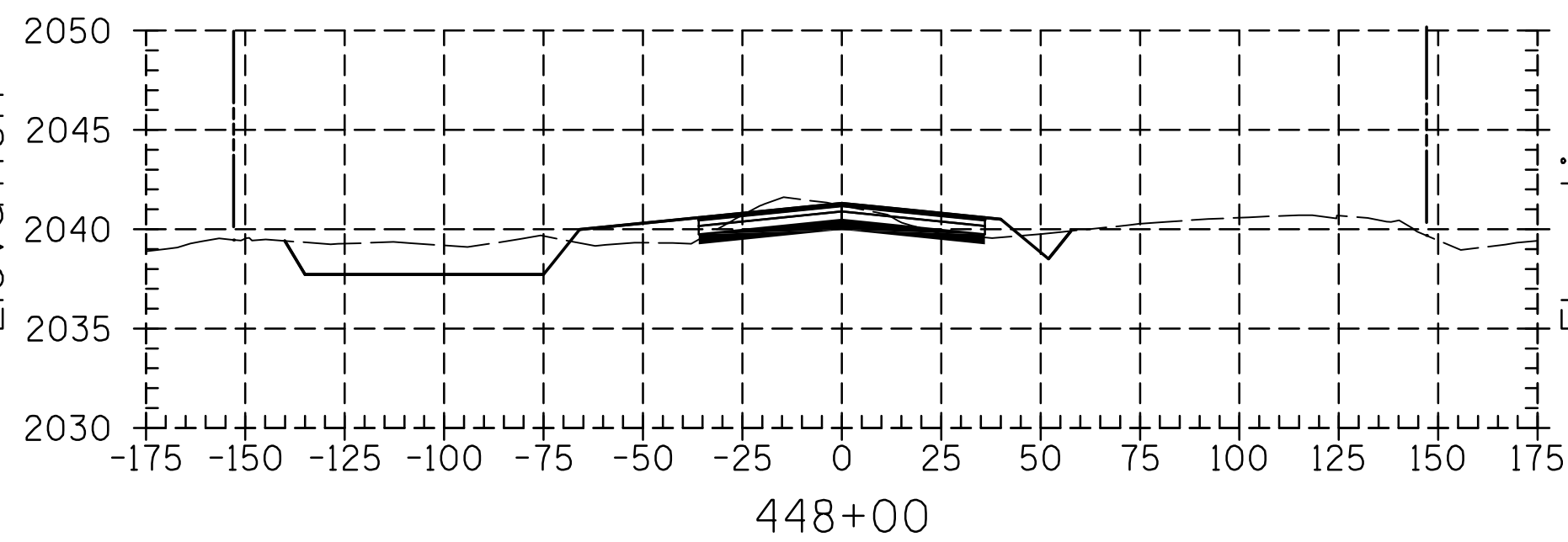
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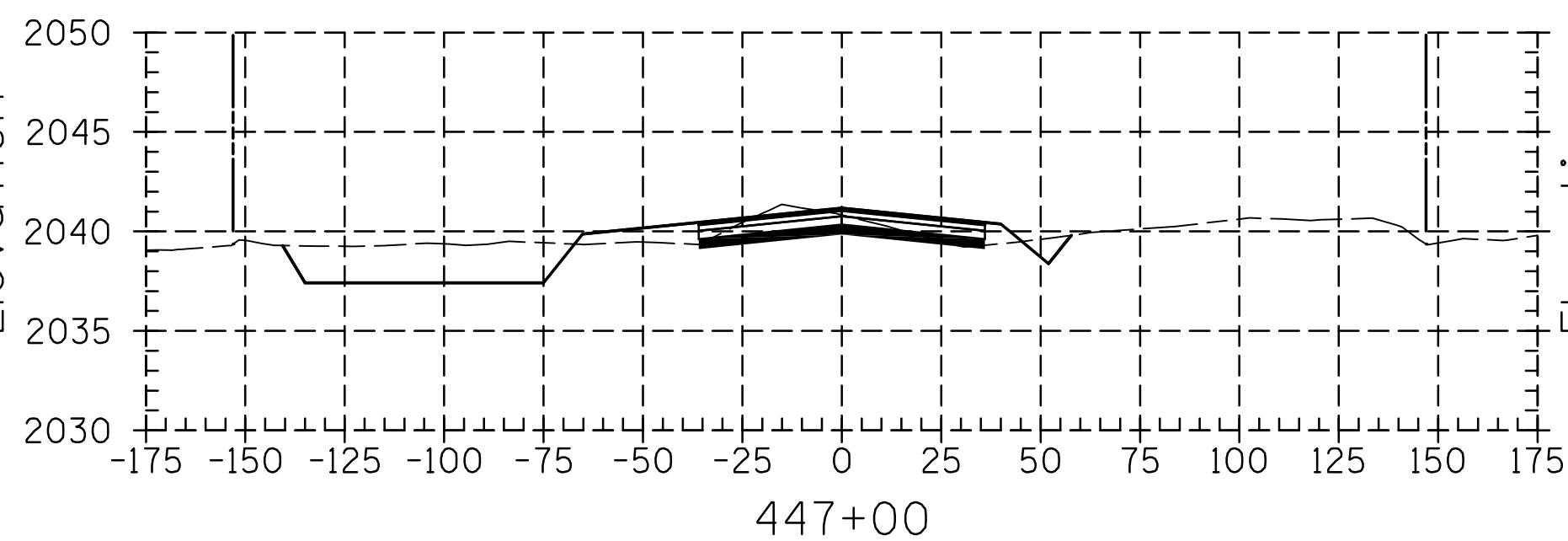
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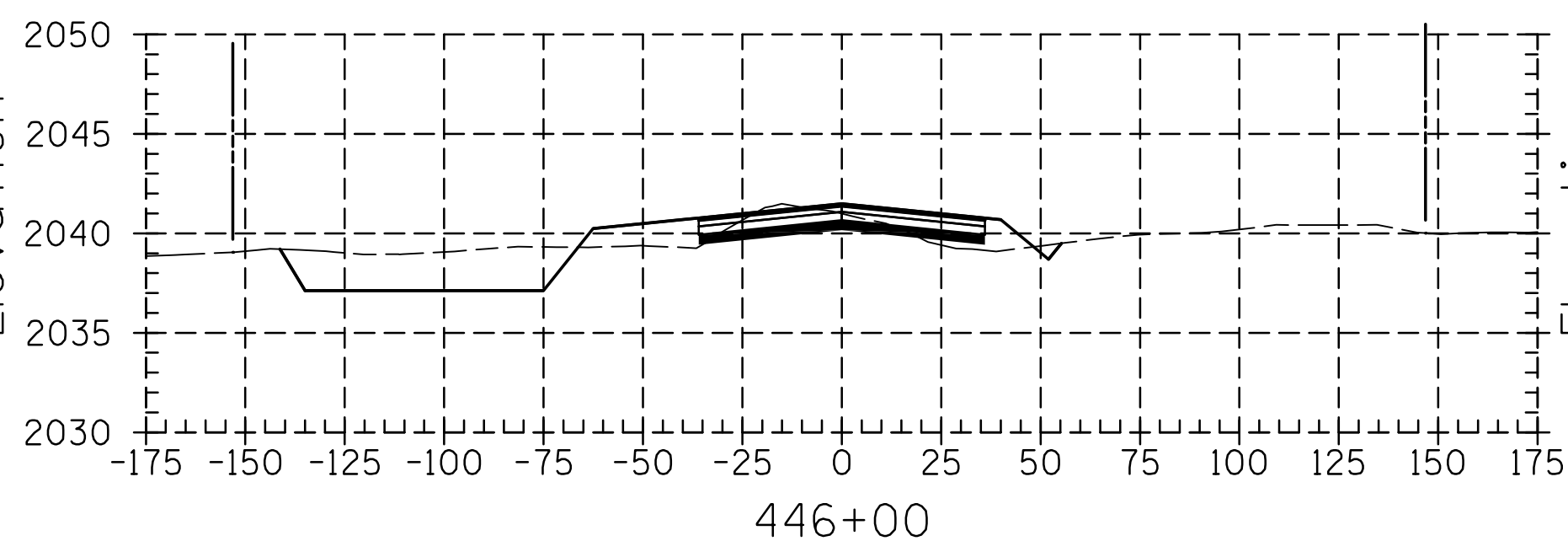
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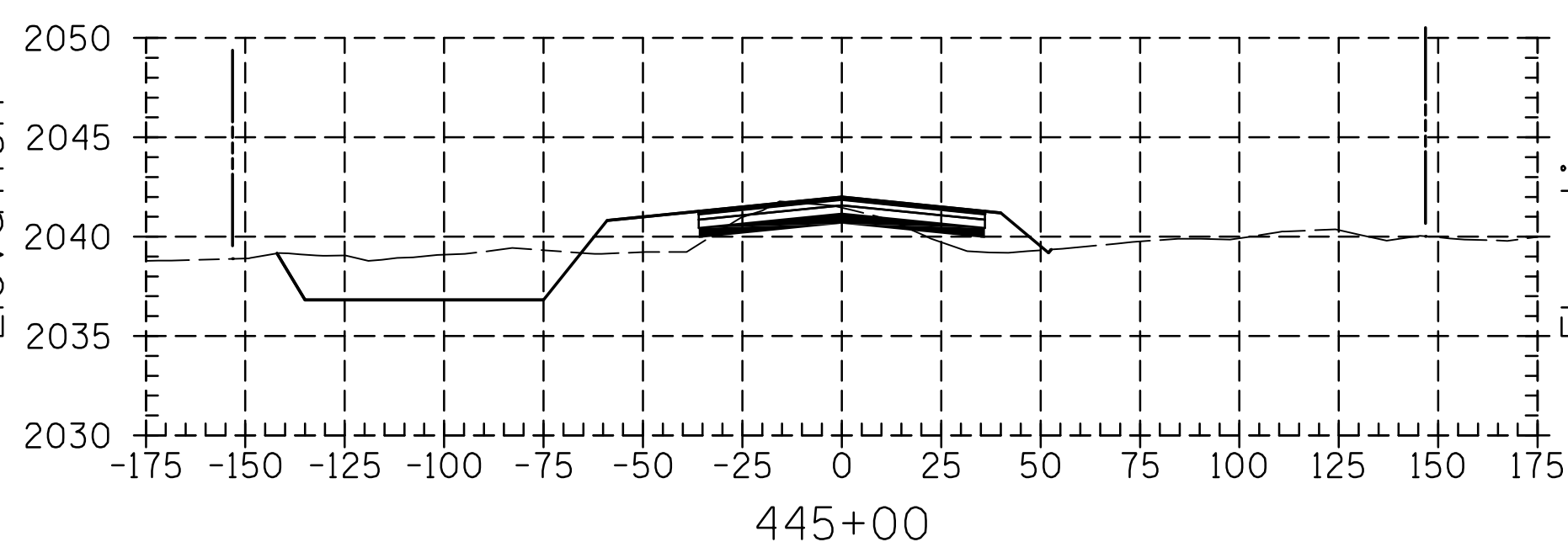
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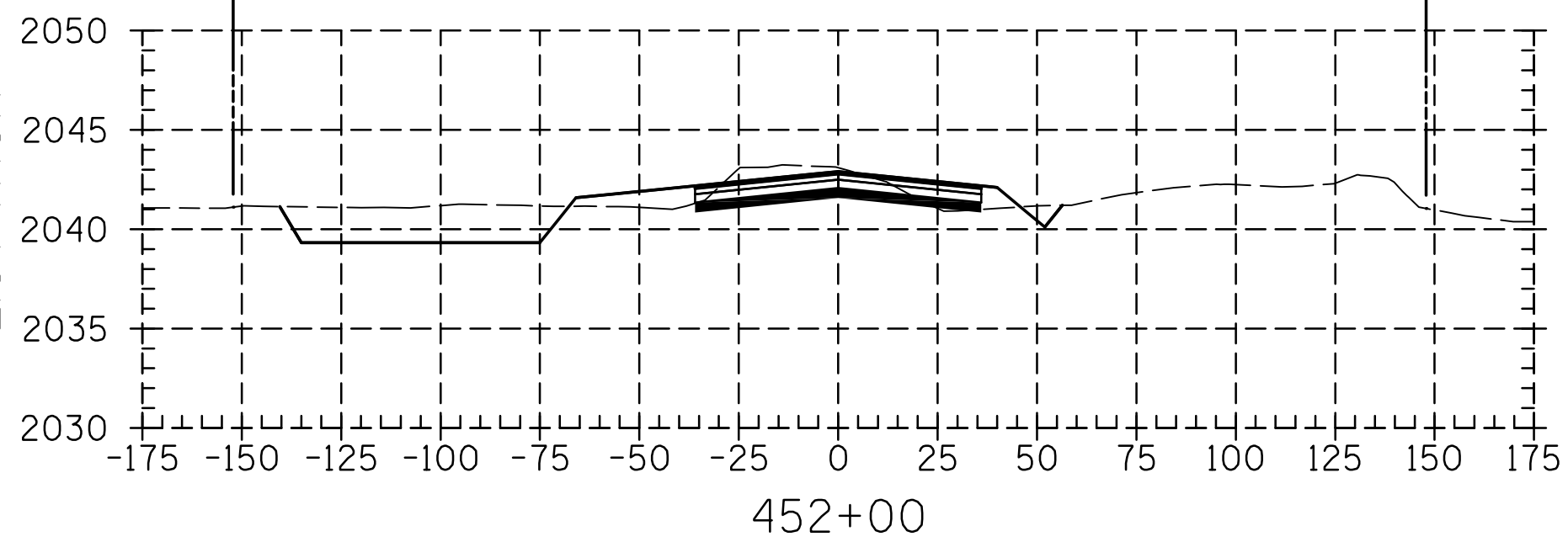
447+00



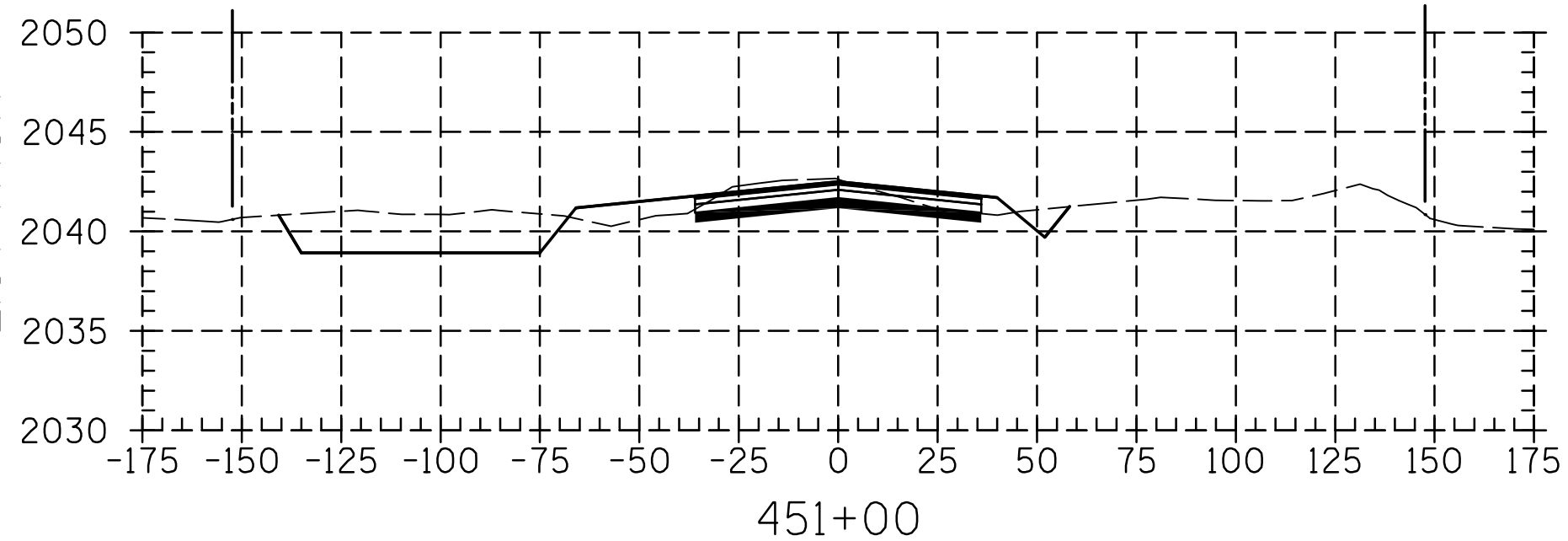
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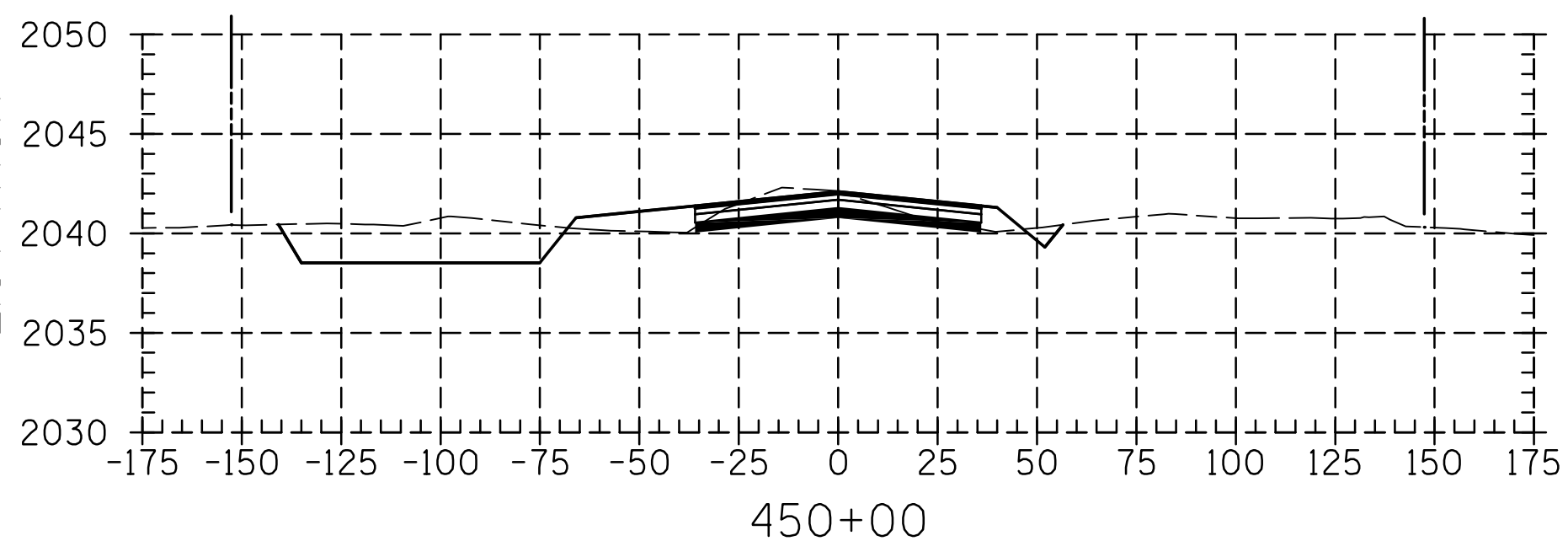
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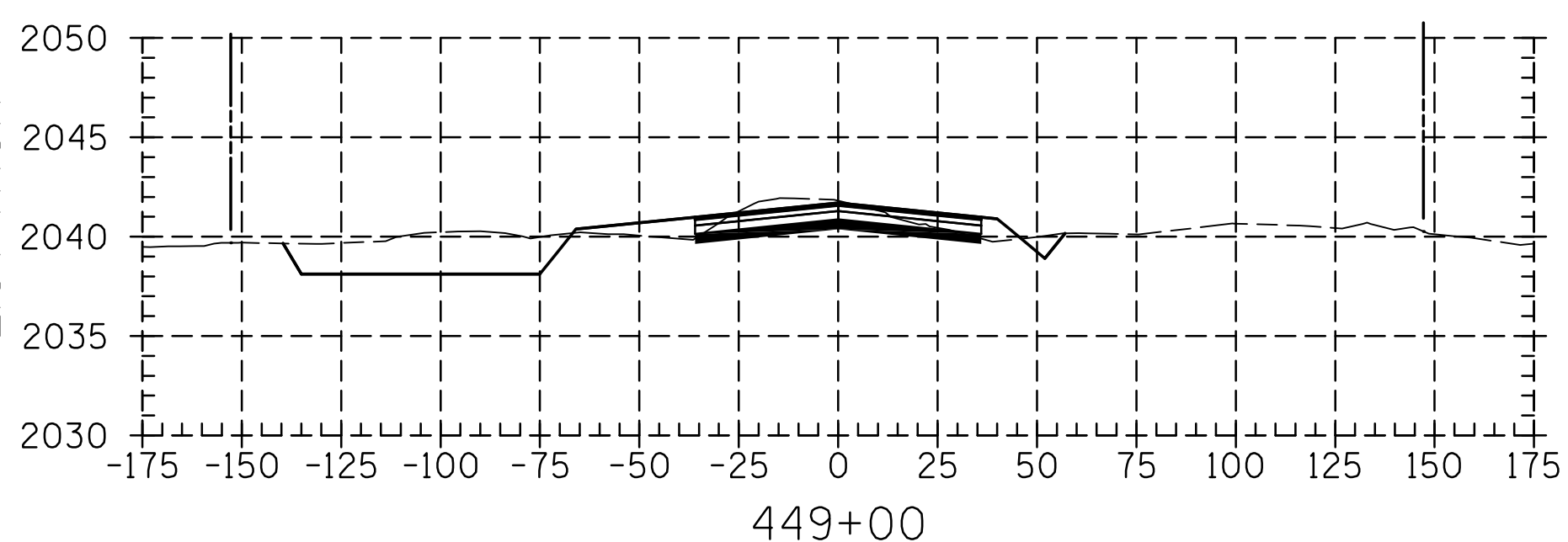
452+00



451+00



450+00



449+00

STA 440+00 TO STA 452+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS01 OF XS31

PAGE OF

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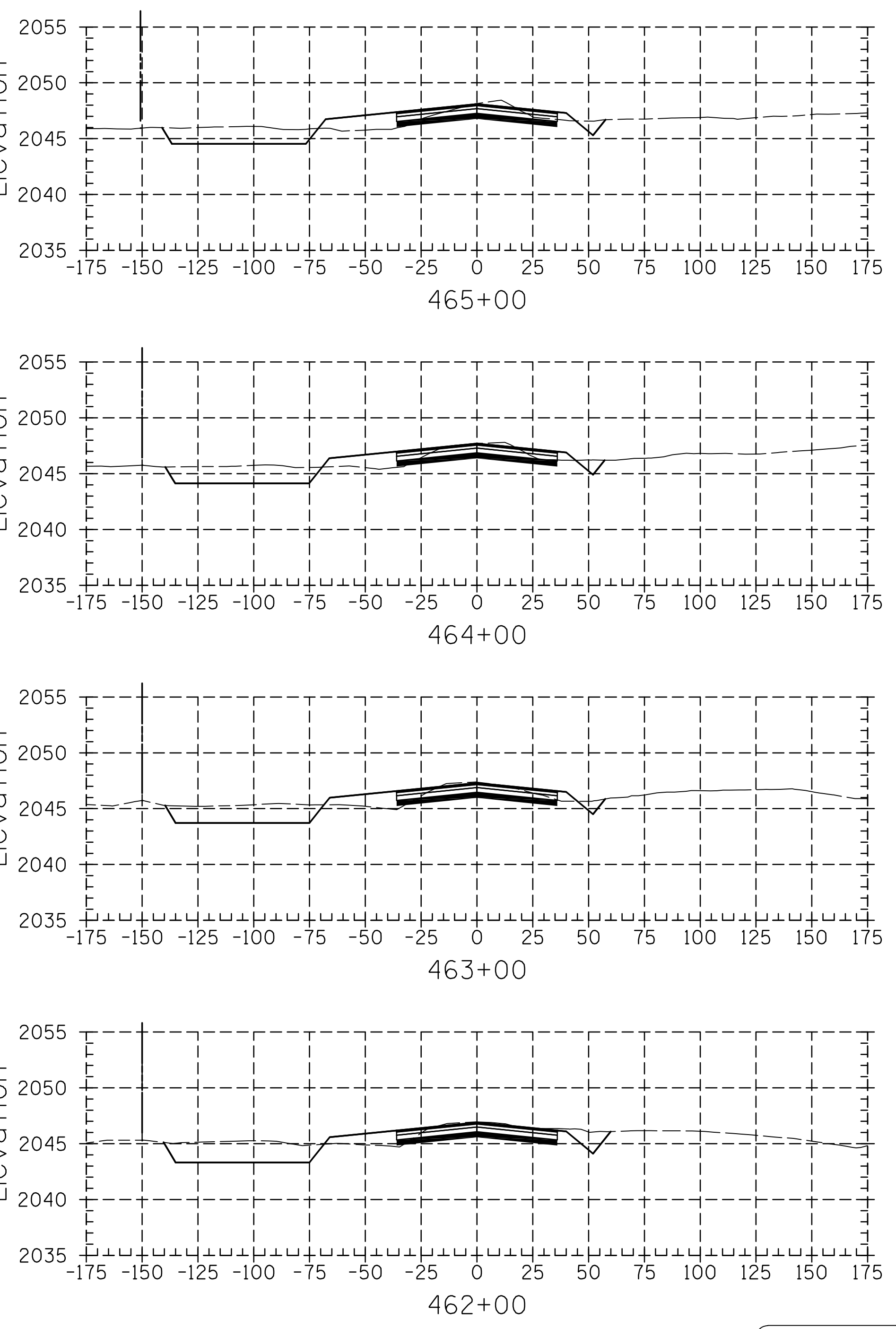
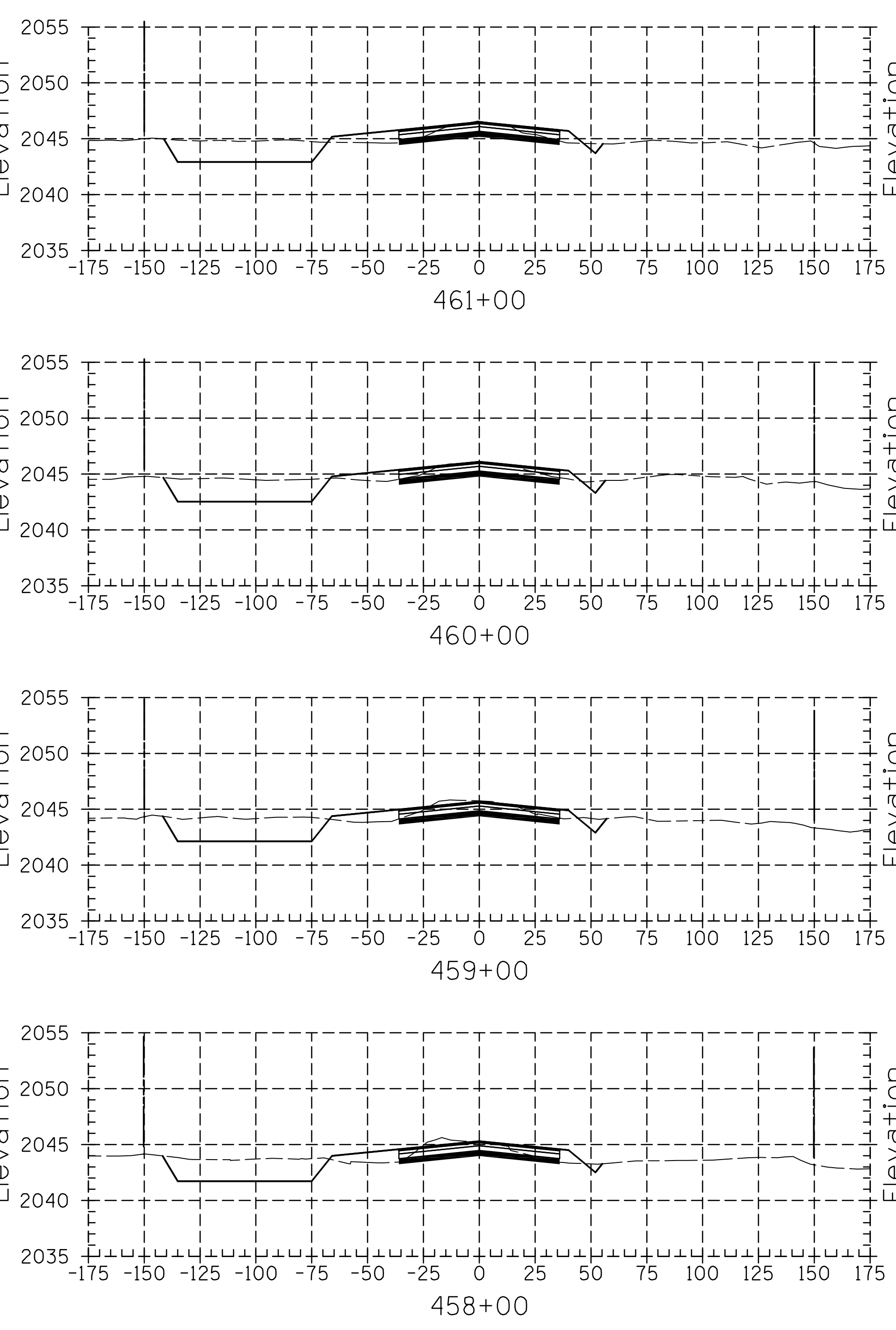
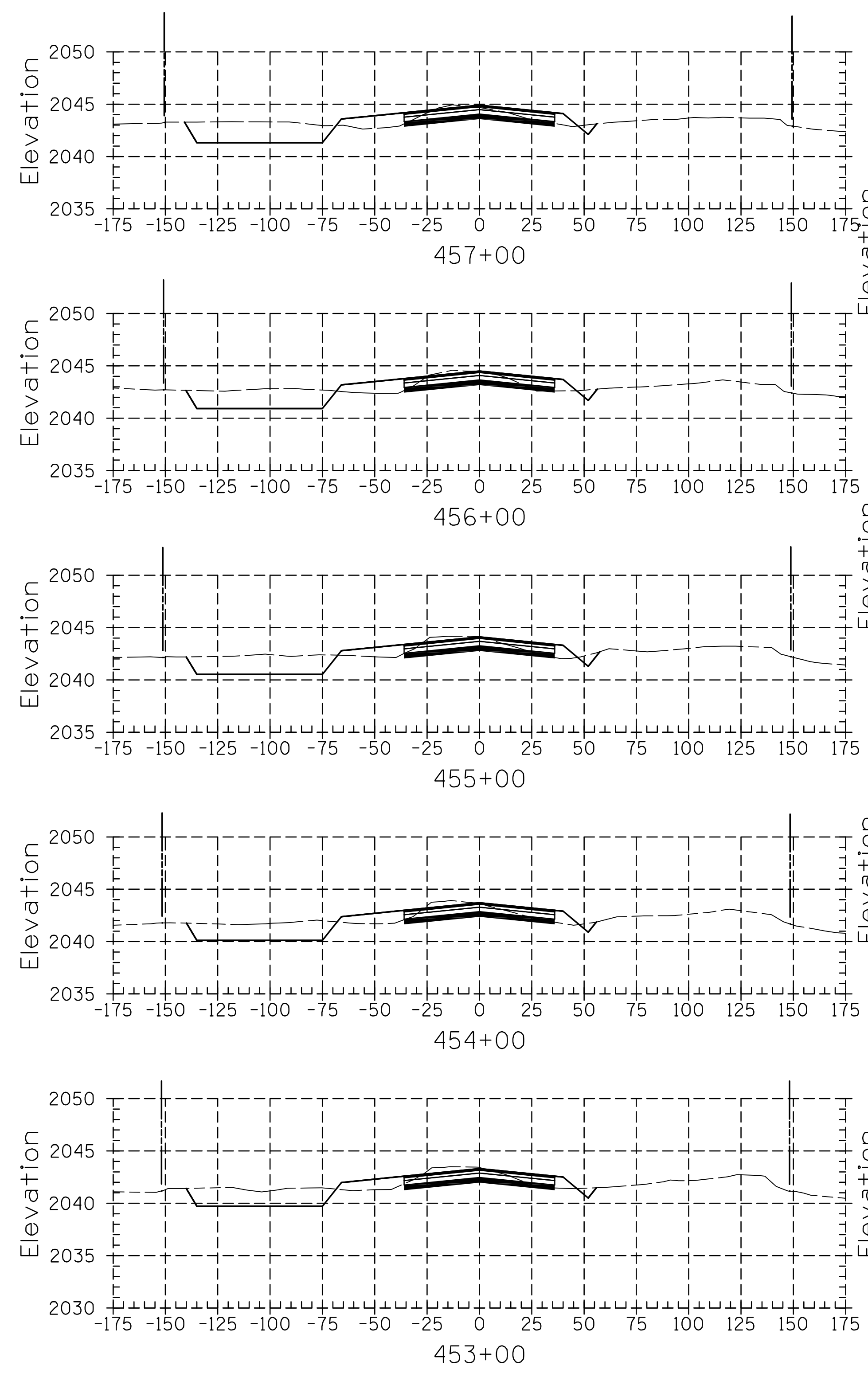
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TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
FOR
TANGERINE ROAD
STA 440+00 TO 452+00
TANGERINE ROAD

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STA 453+00 TO STA 465+00



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 VERT. 1"=8'
 SHEET XS02 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 453+00 TO 465+00
 TANGERINE ROAD

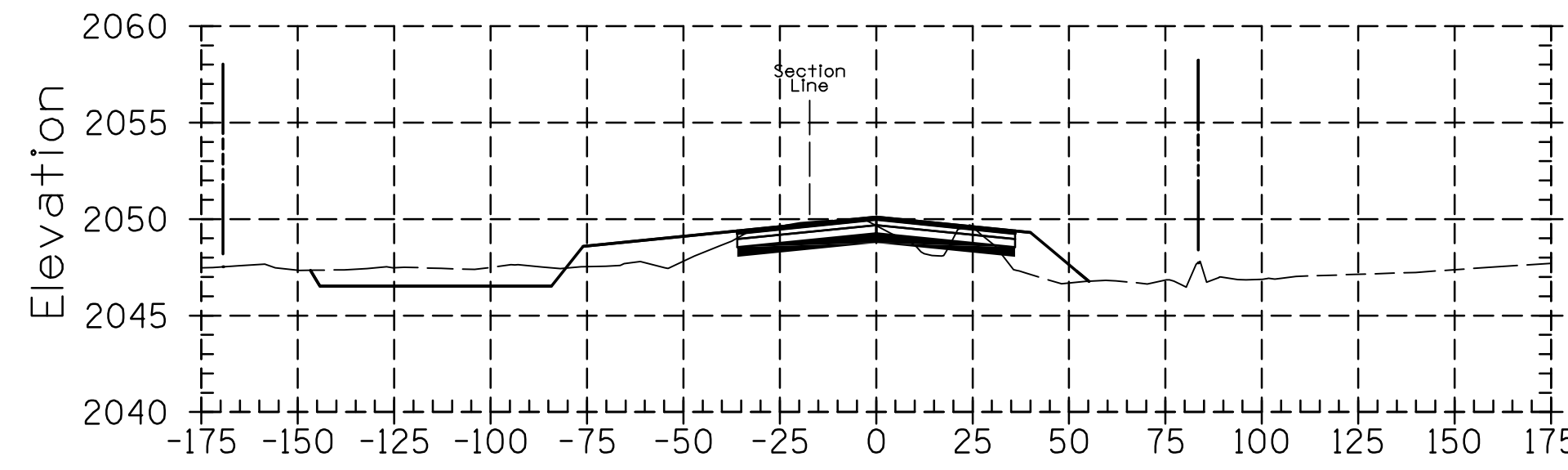
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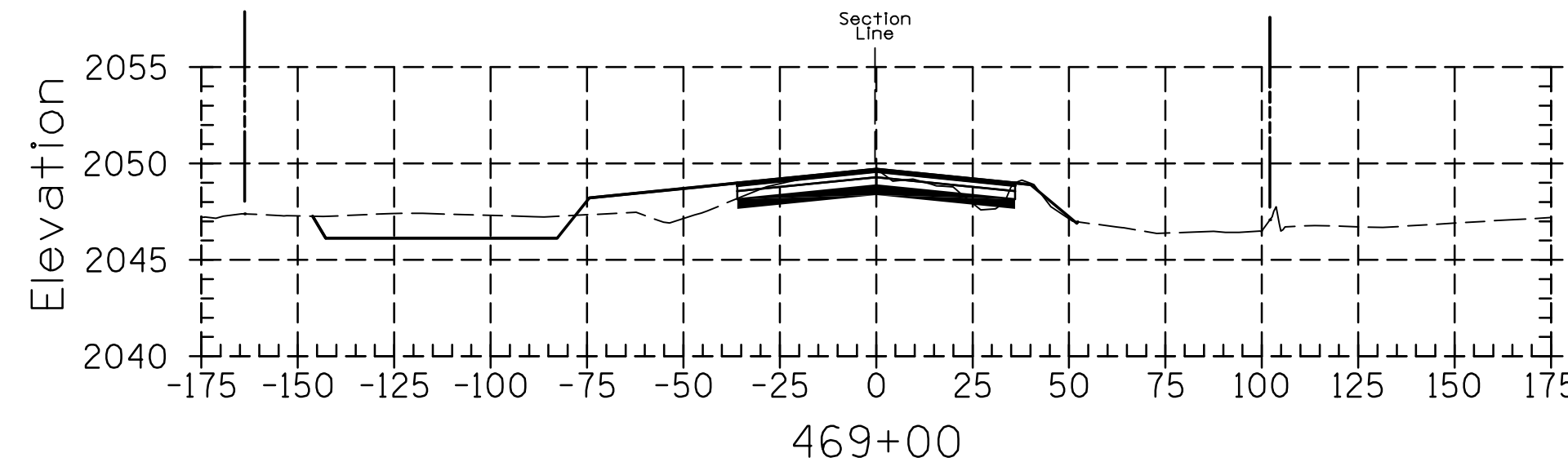
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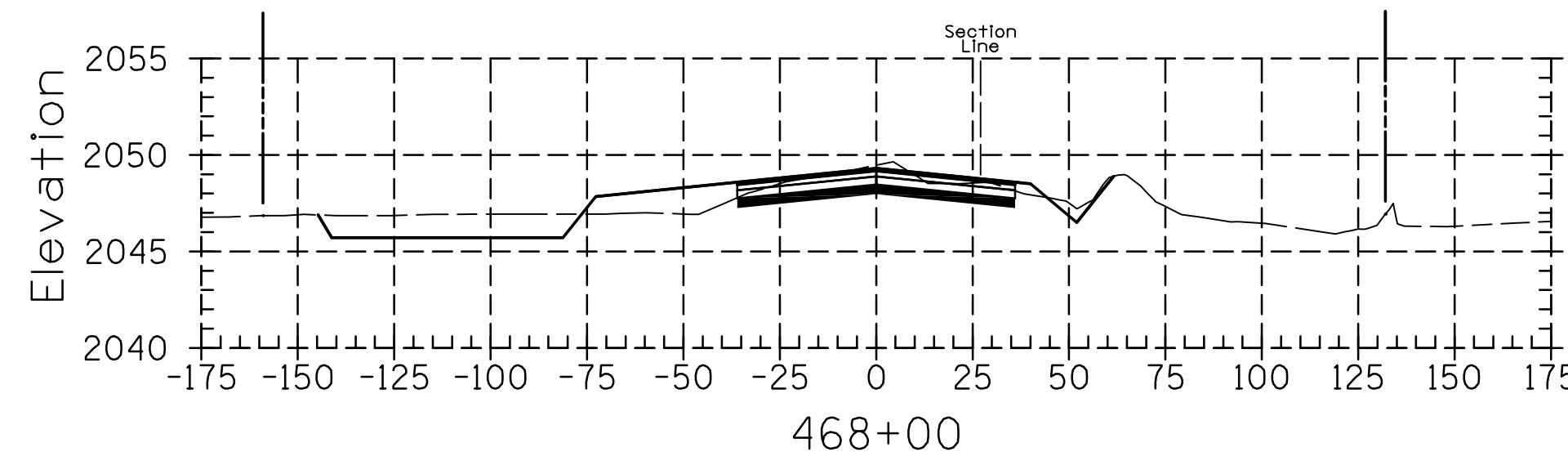
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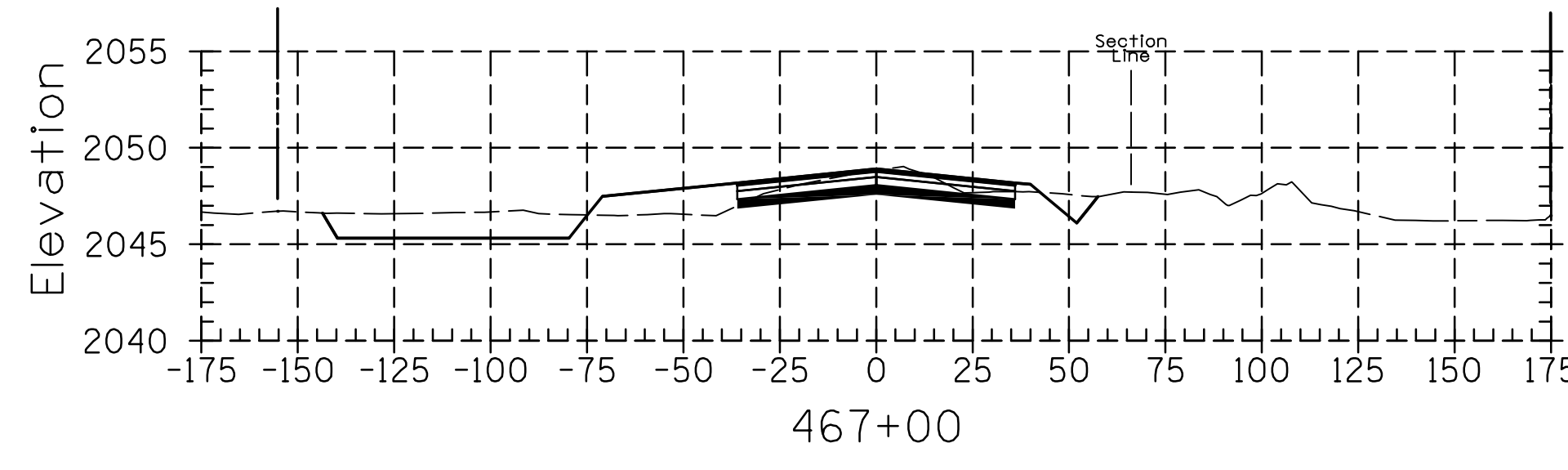
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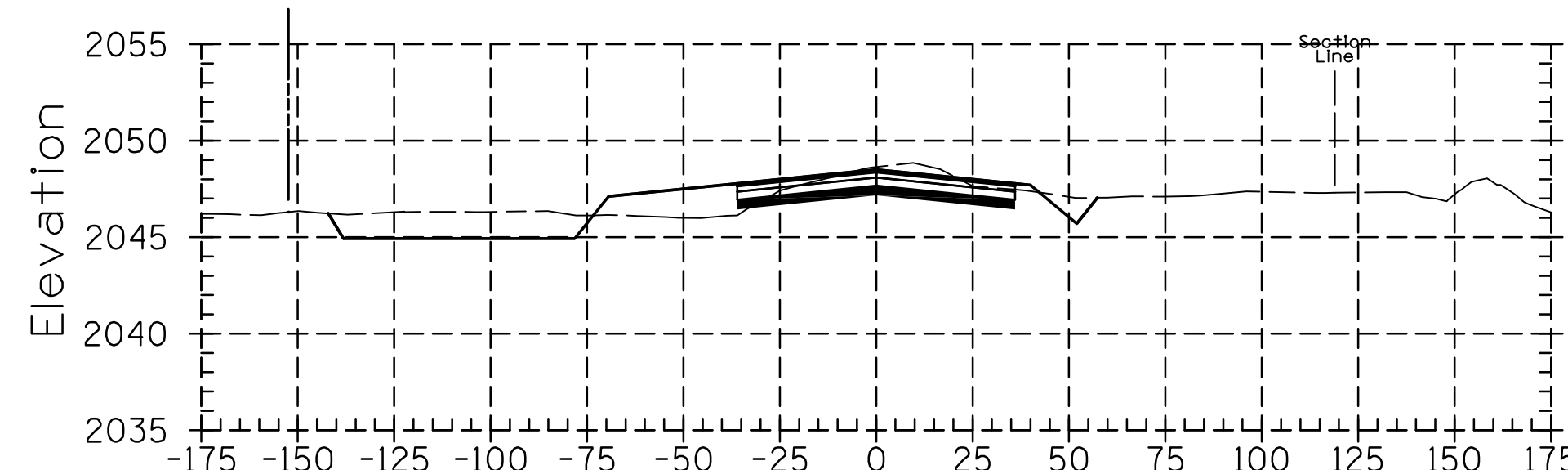
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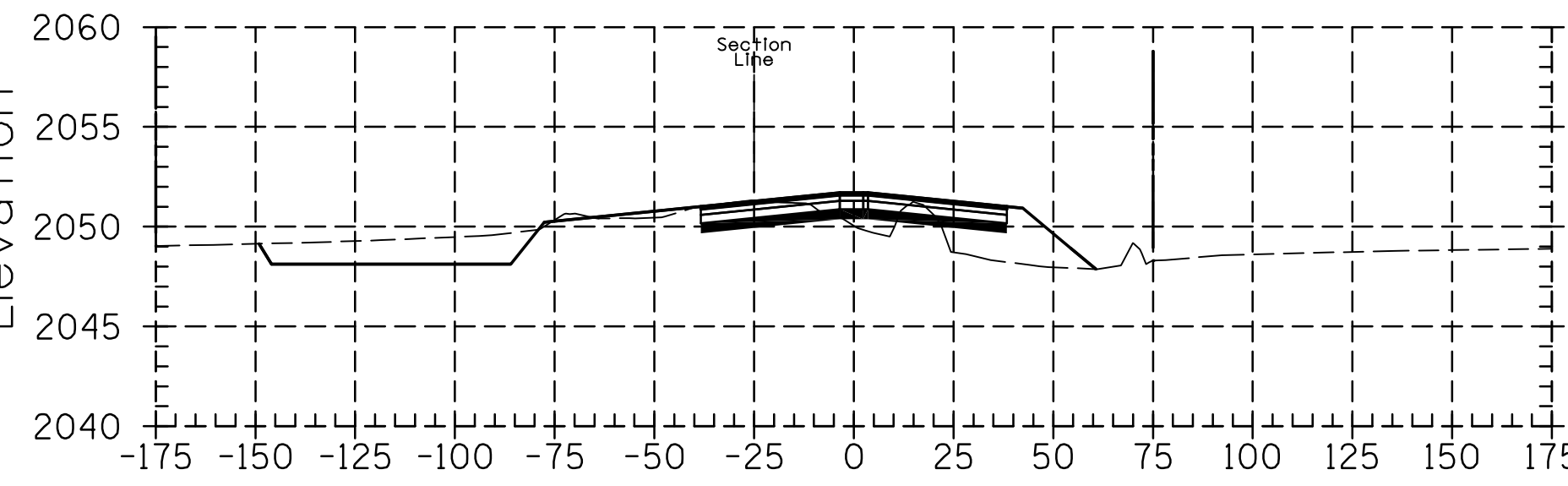
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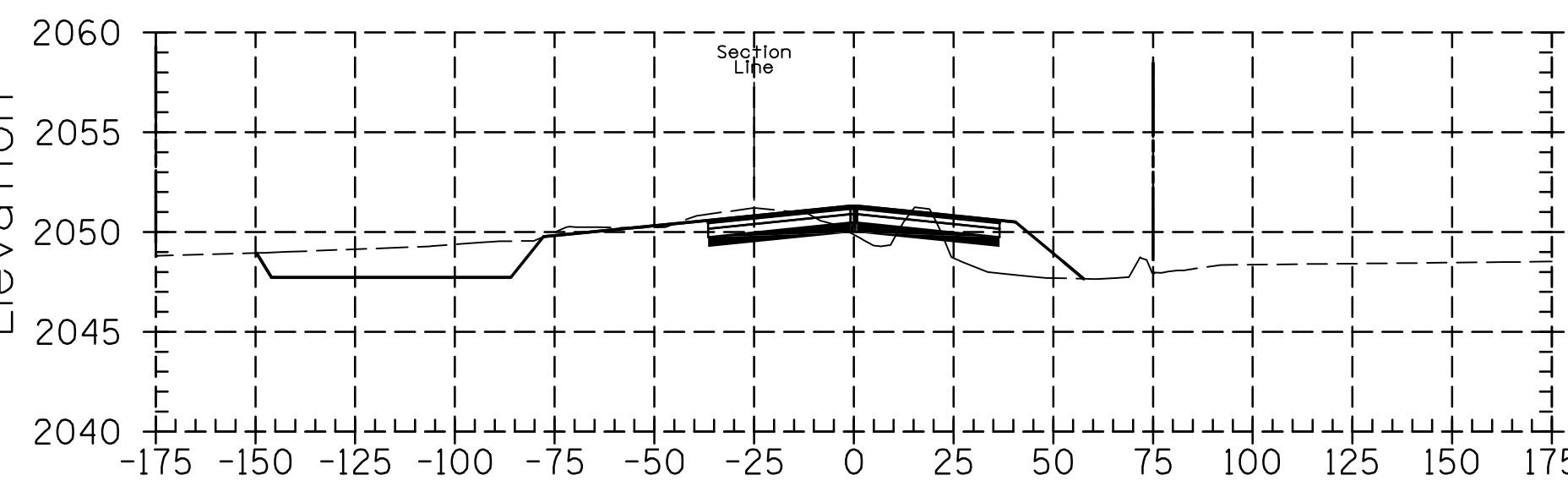
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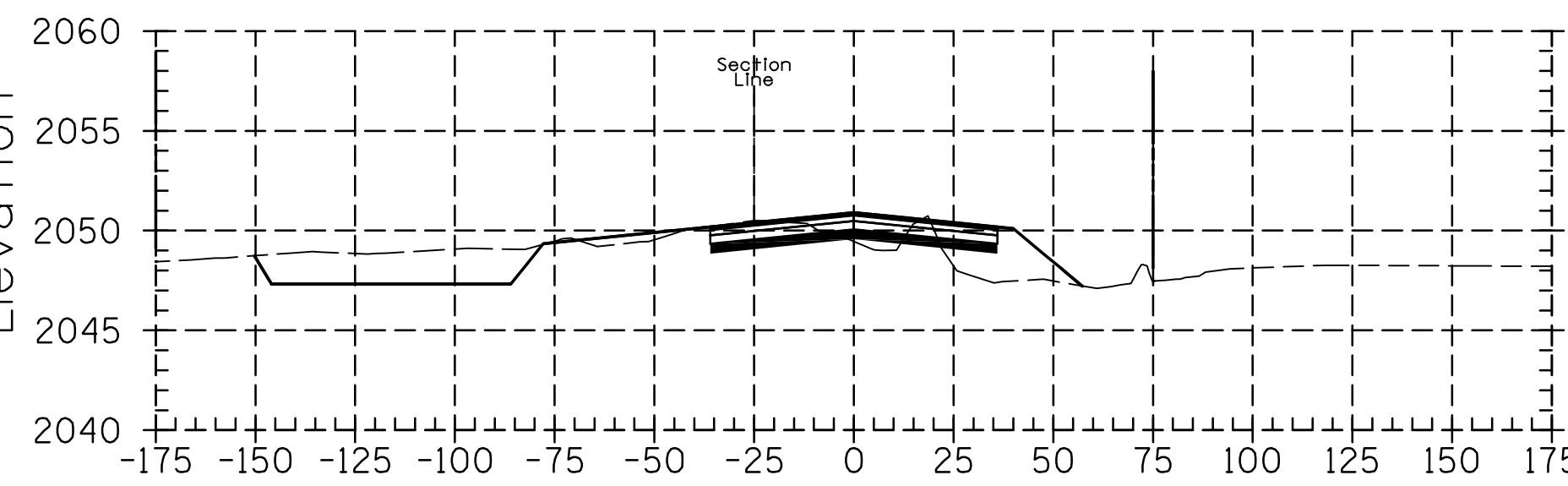
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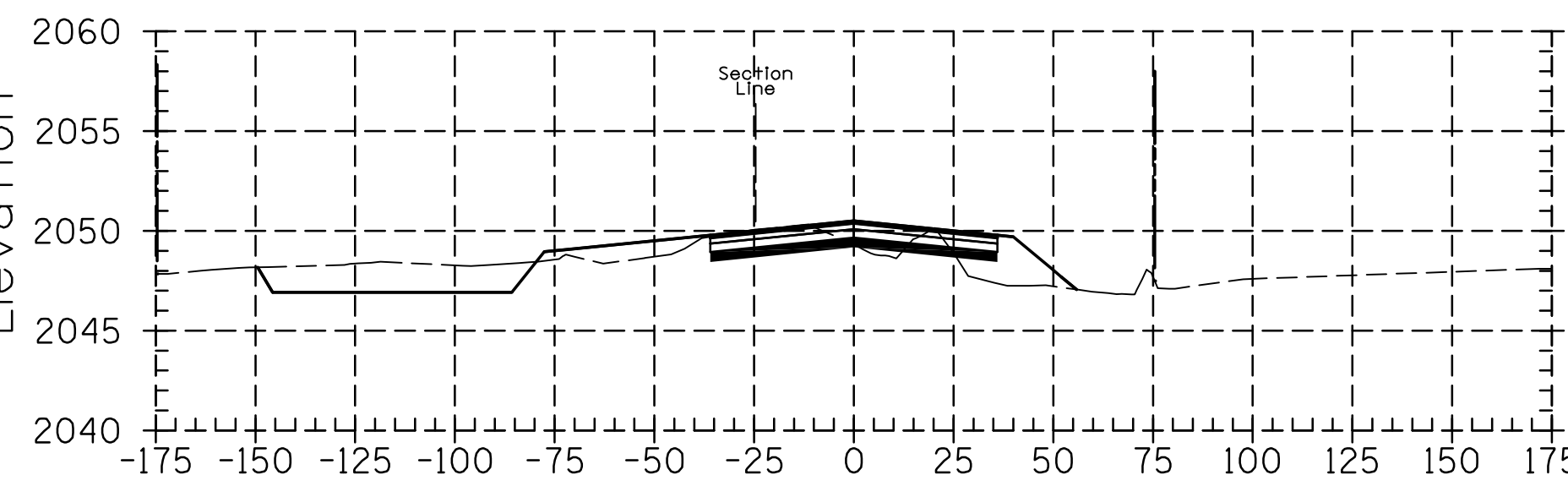
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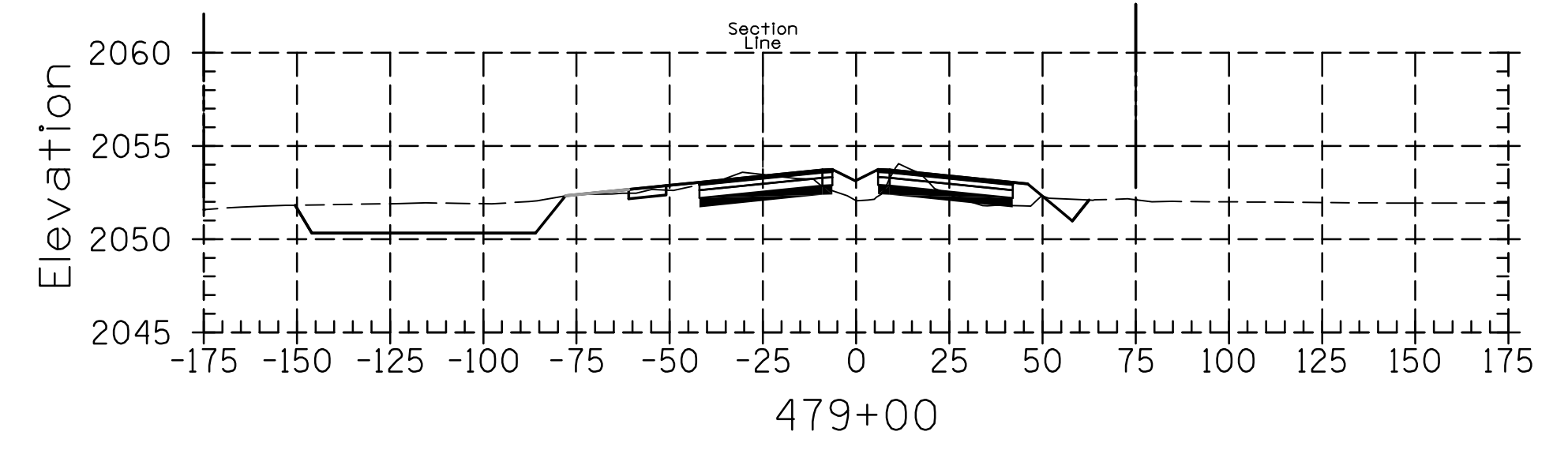
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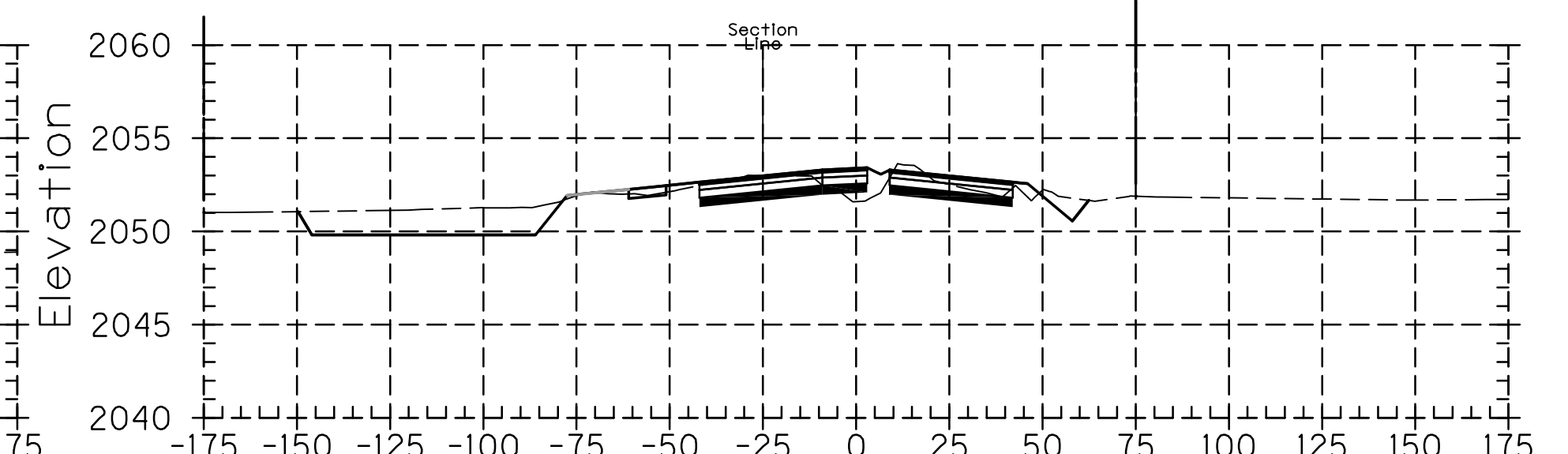
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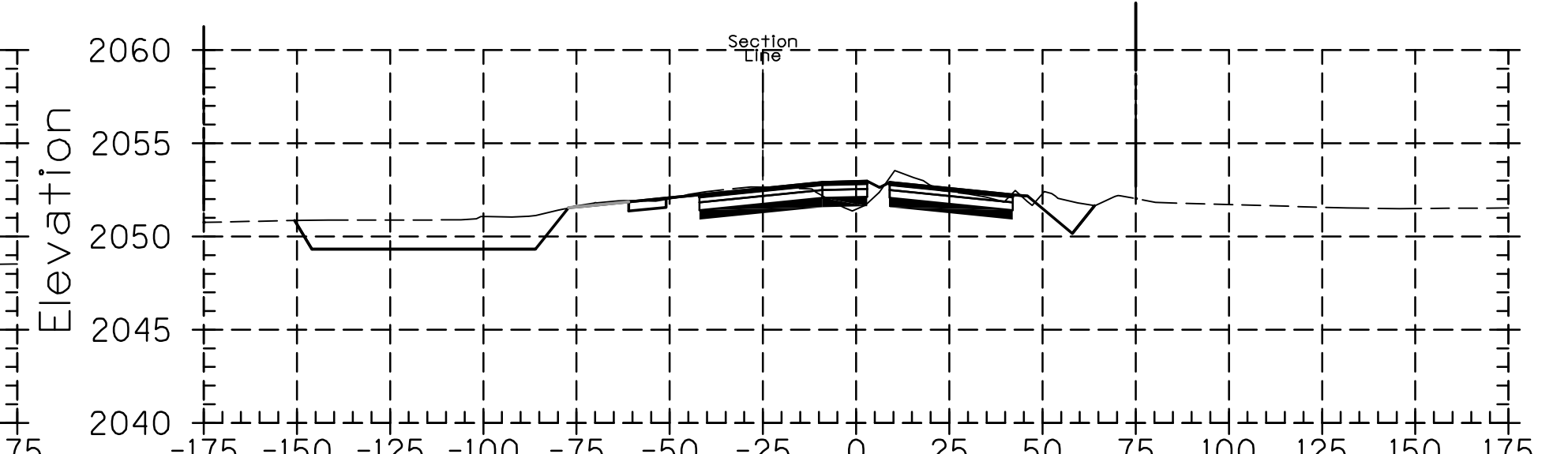
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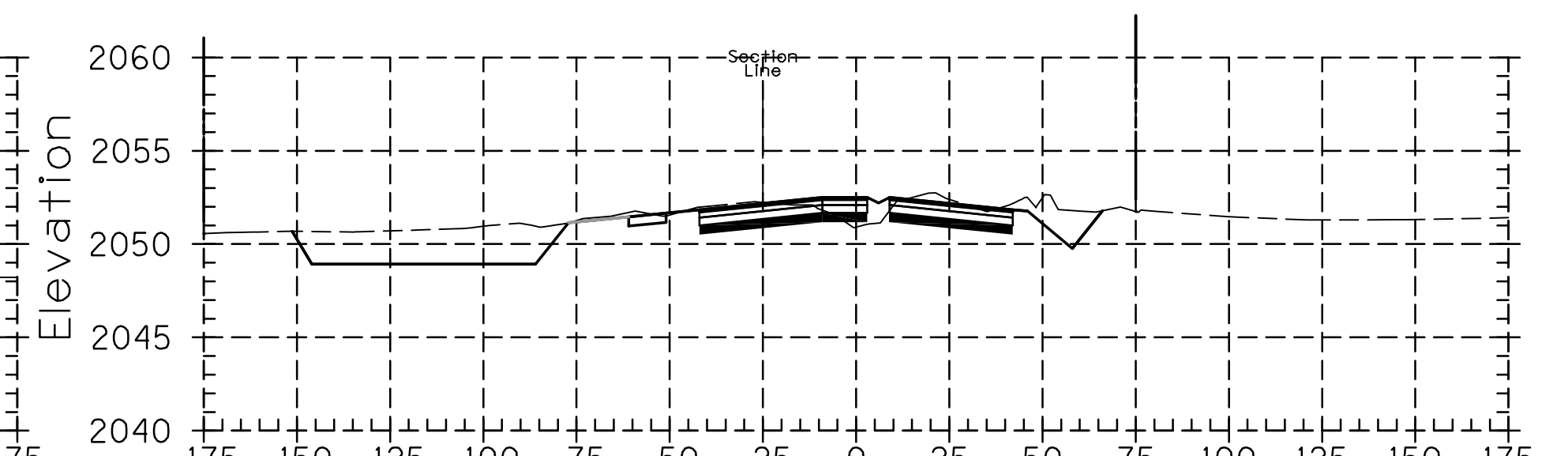
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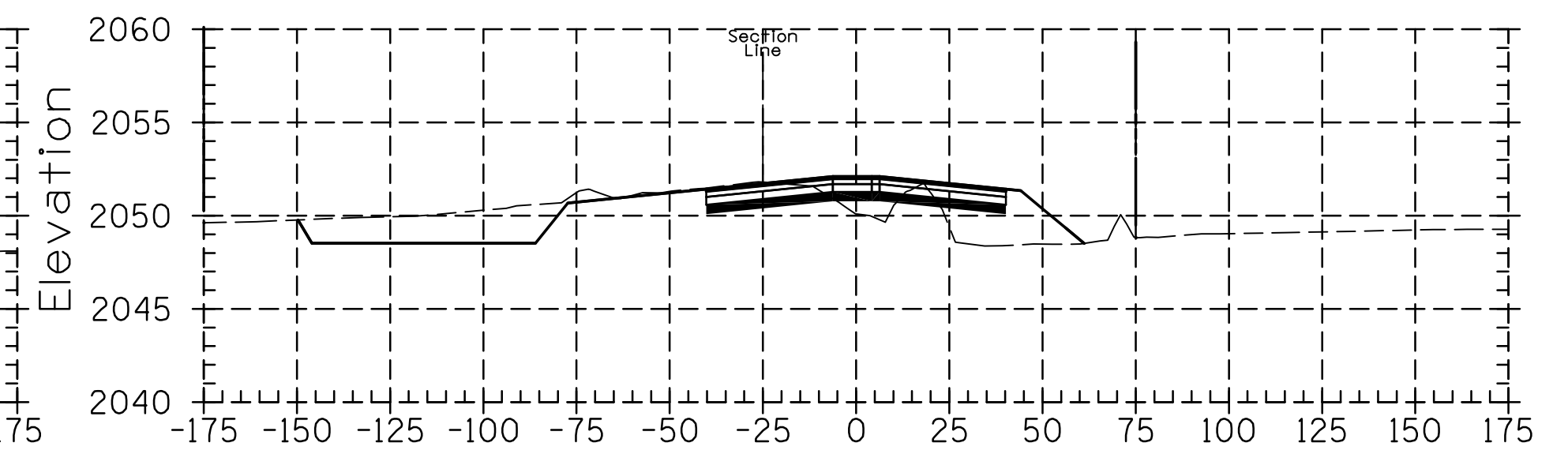
478+00



477+00



476+00



475+00

STA 466+00 TO STA 479+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS03 OF XS31

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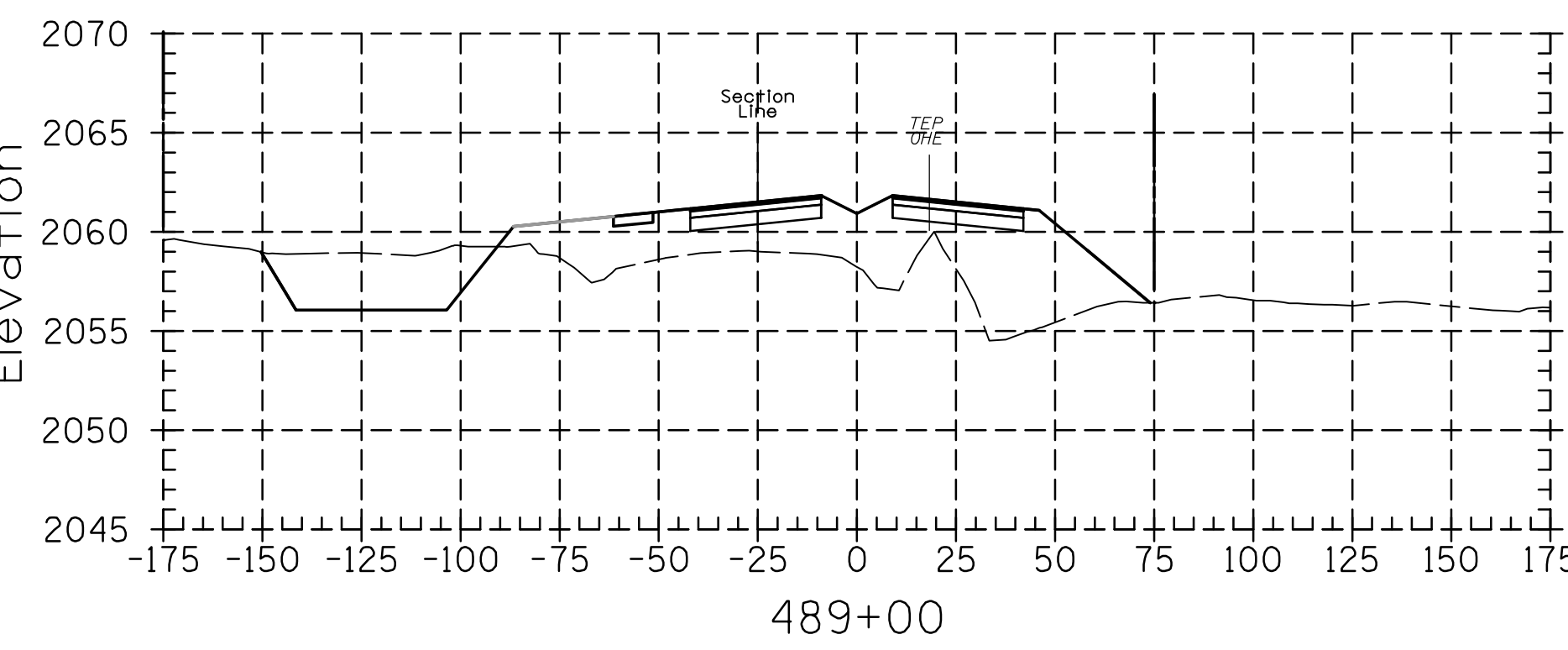
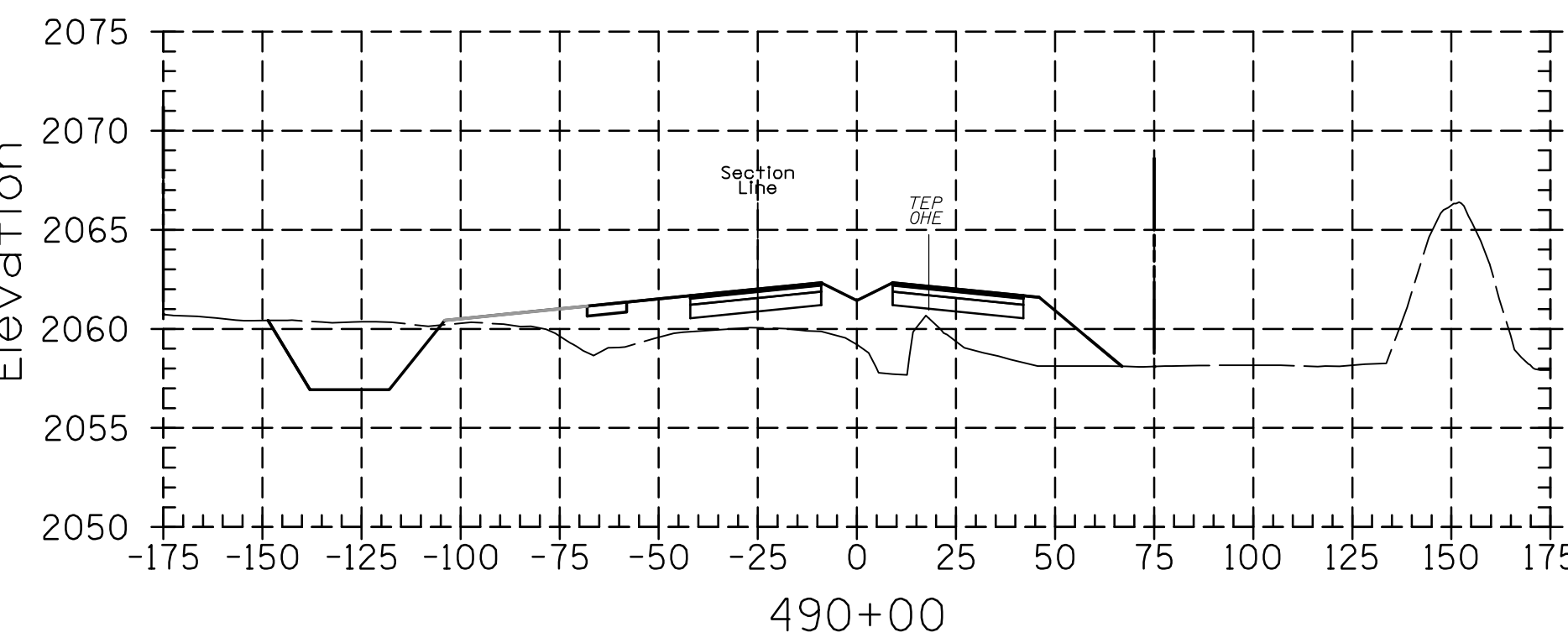
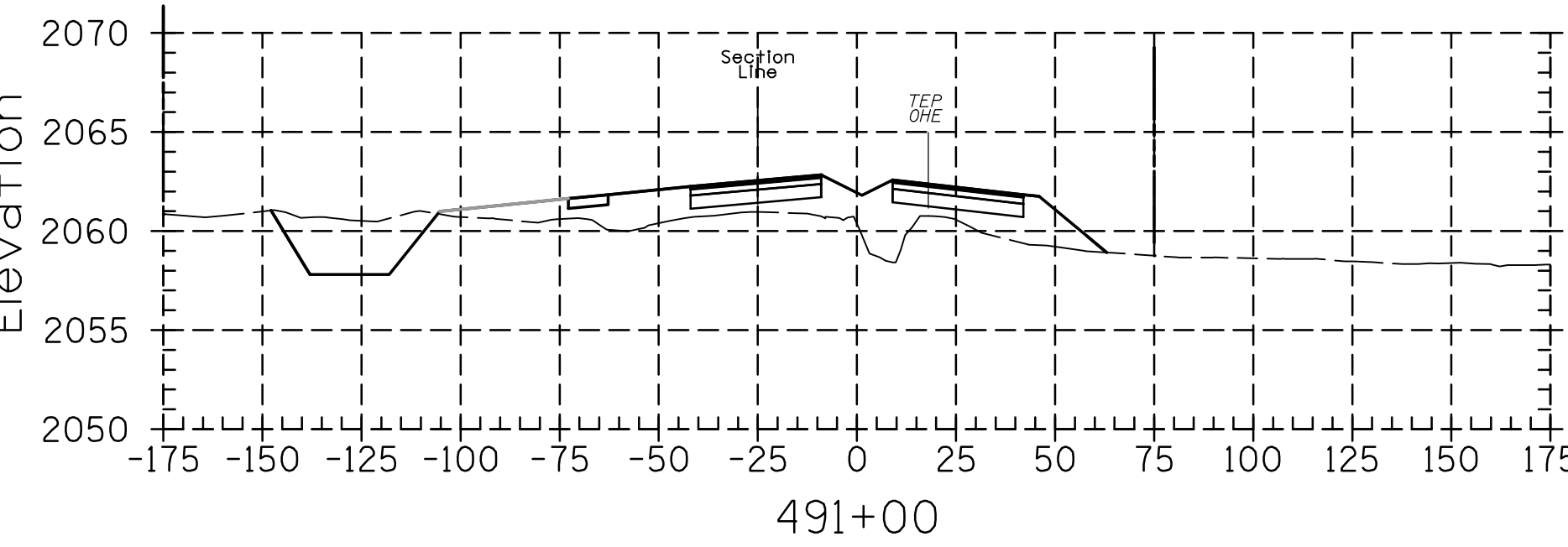
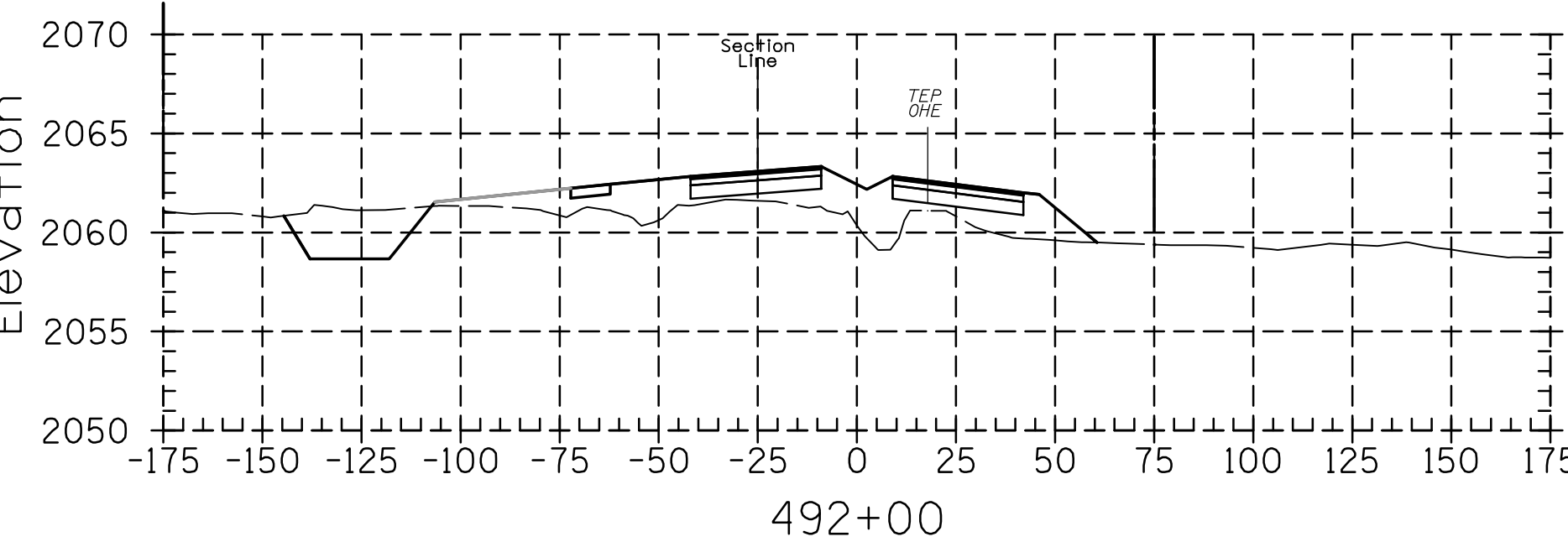
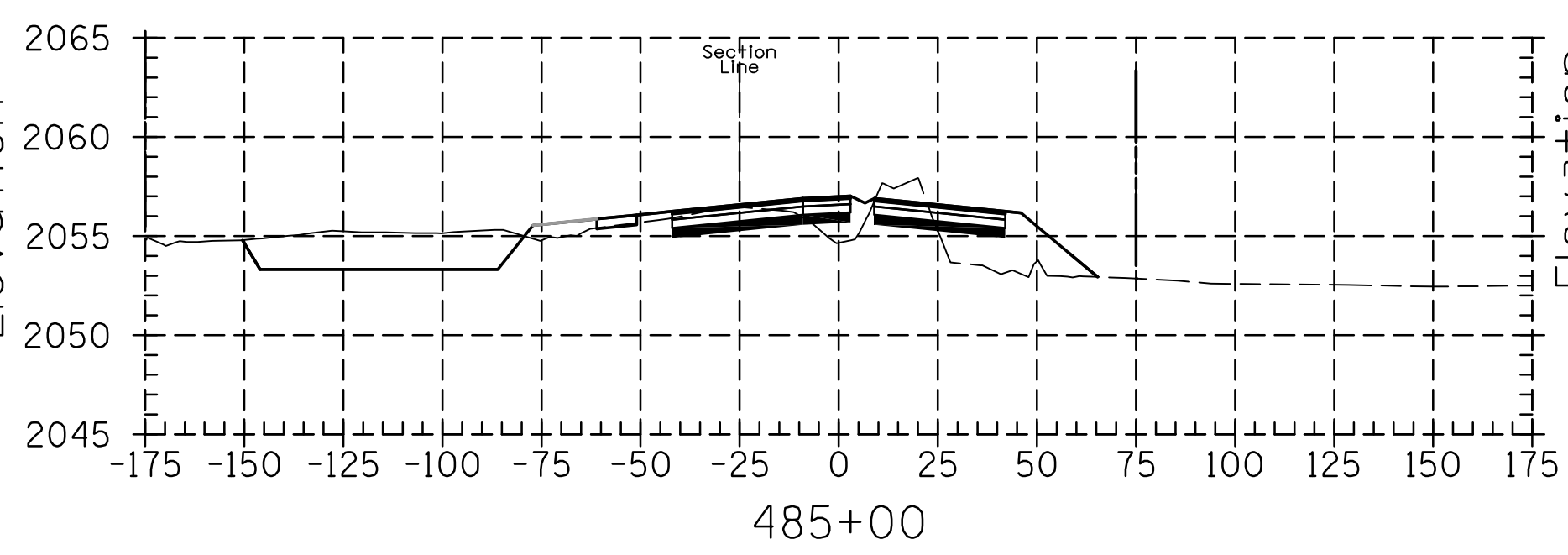
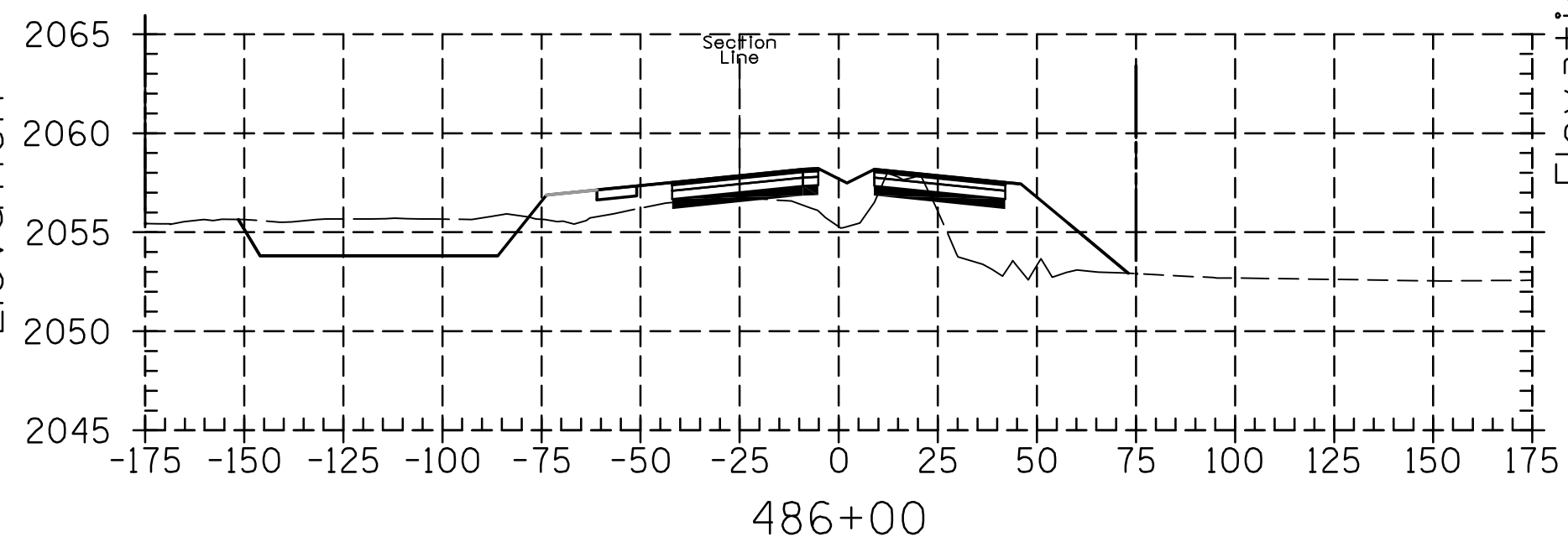
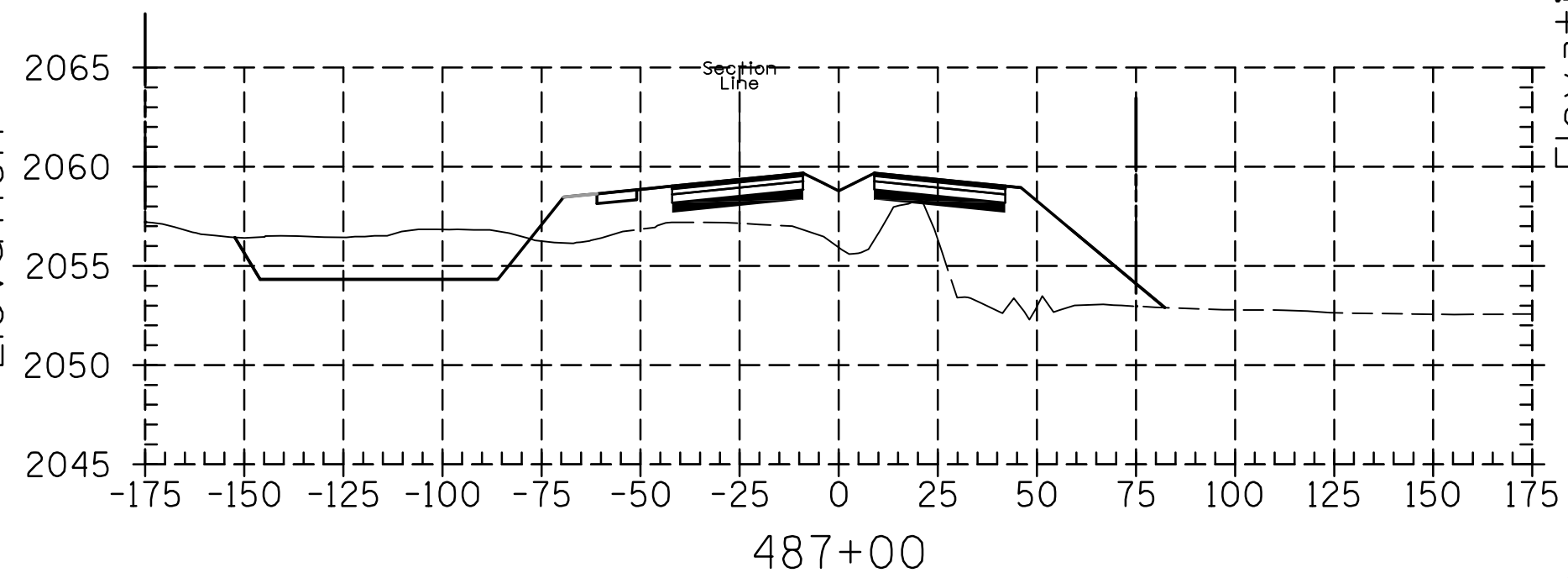
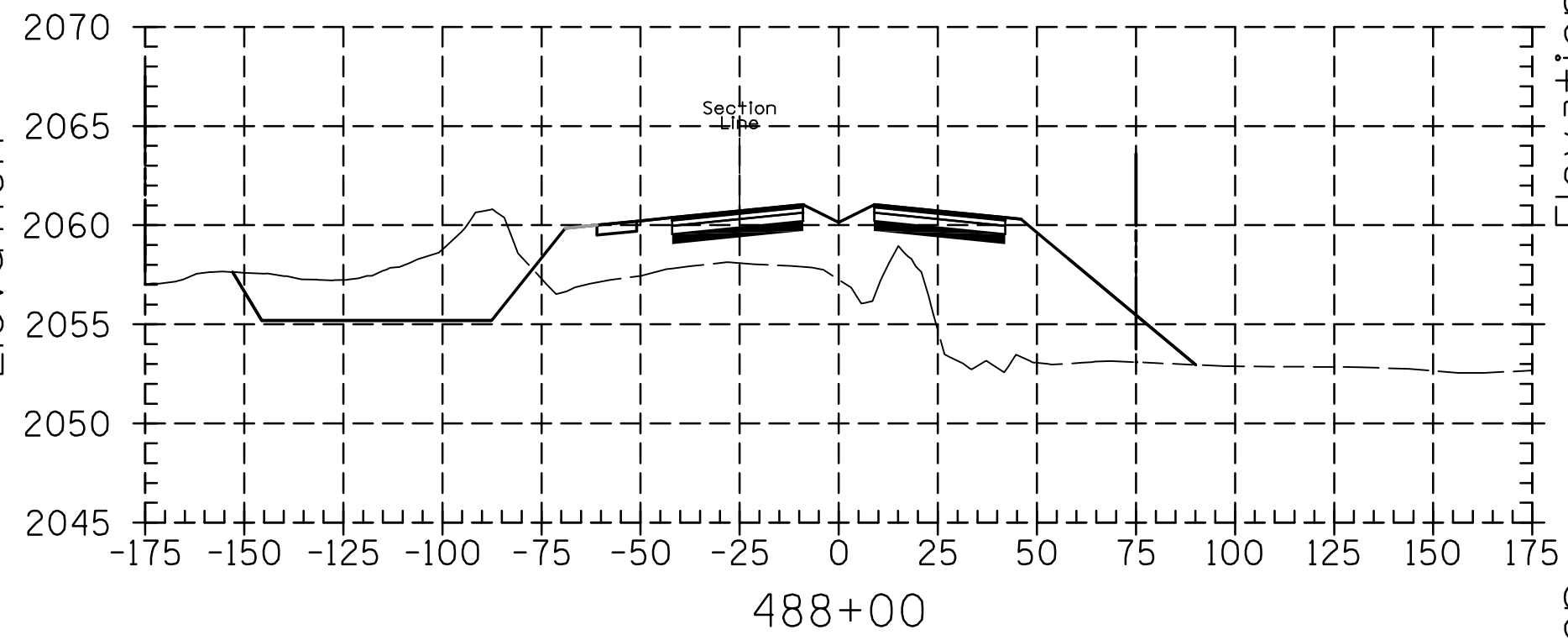
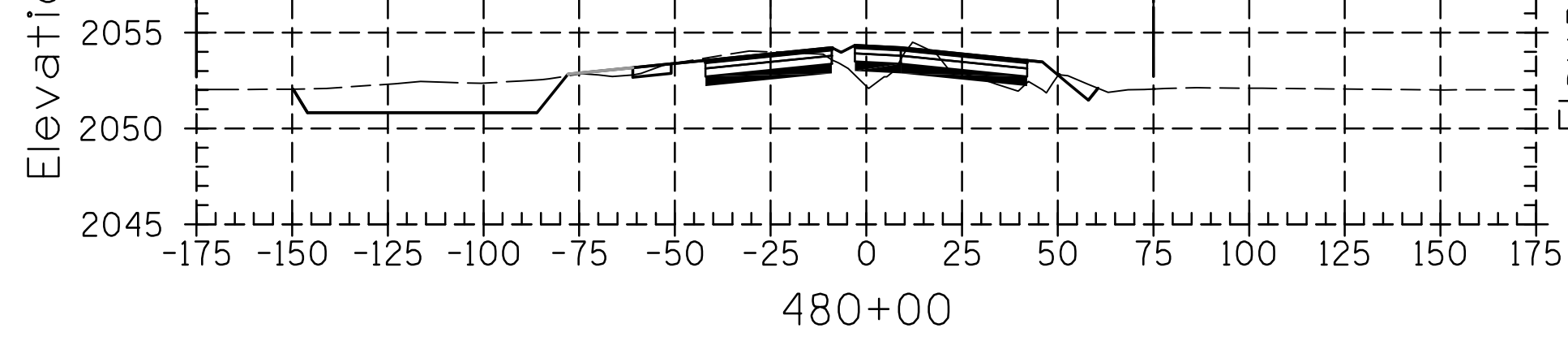
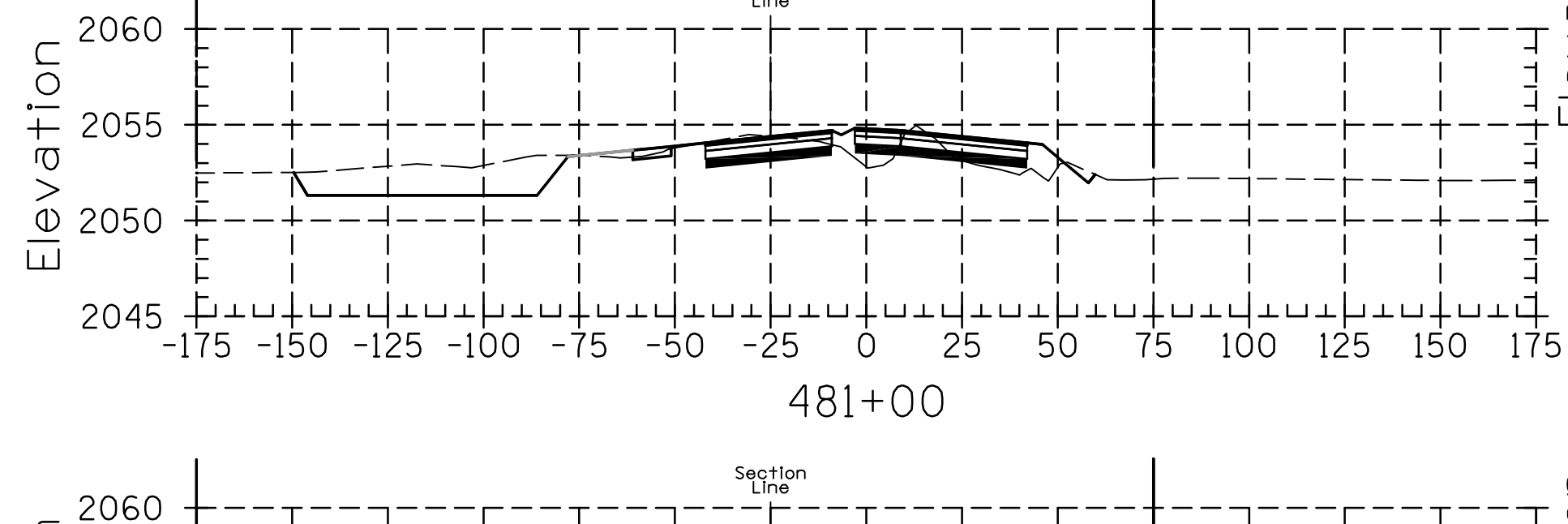
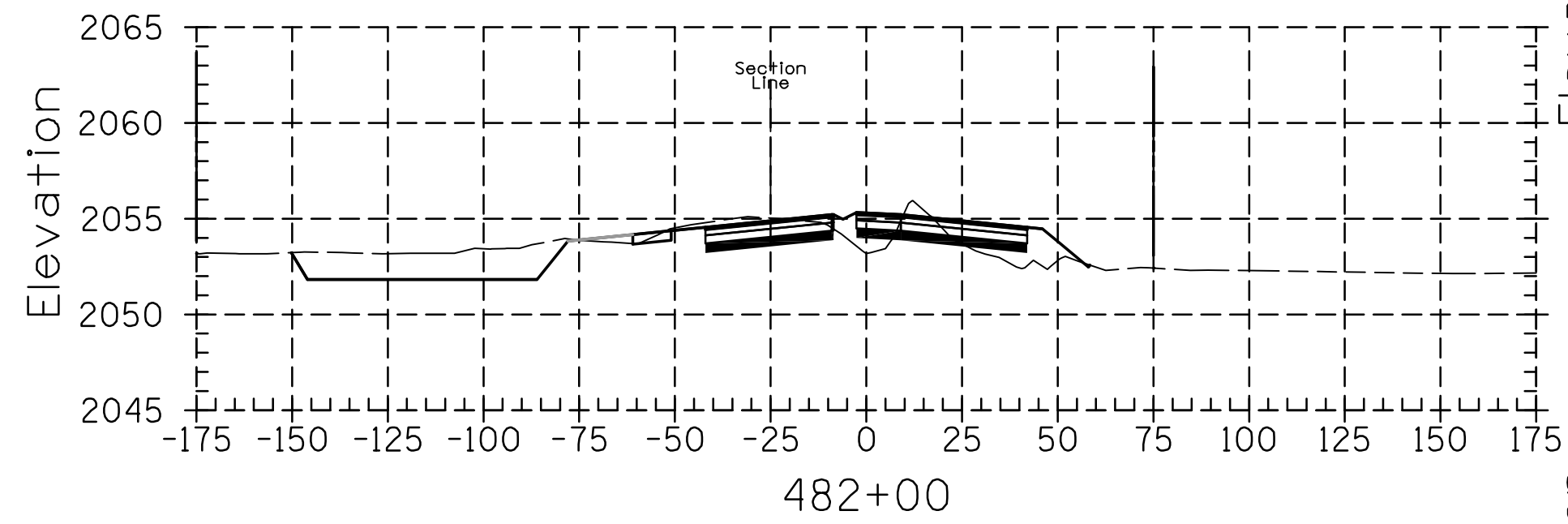
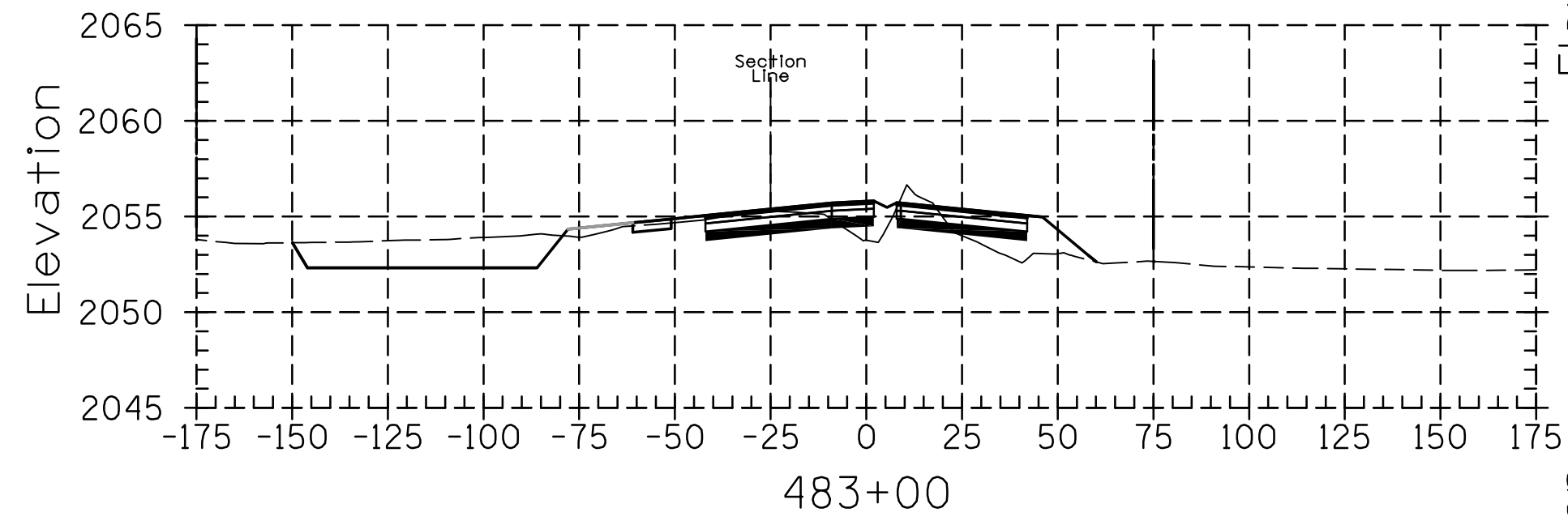
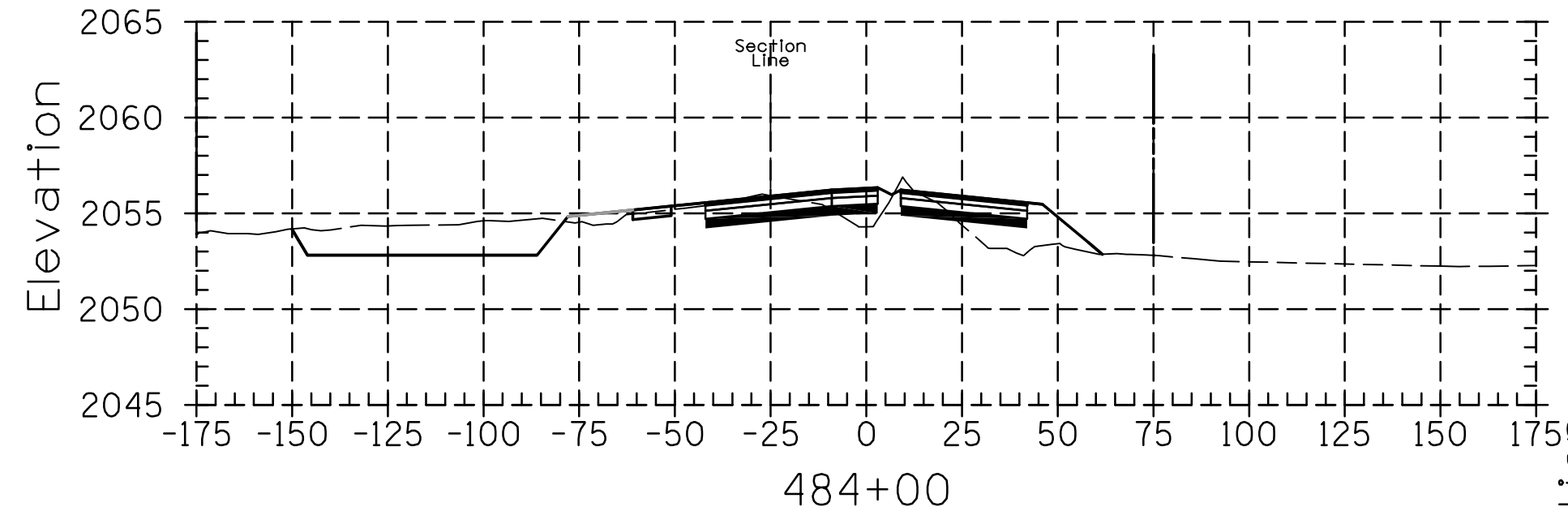
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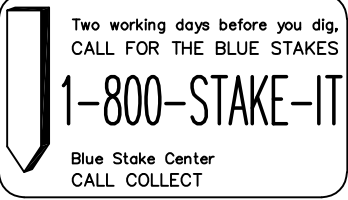
TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
FOR
TANGERINE ROAD
STA 466+00 TO 479+00
TANGERINE ROAD

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STA 480+00 TO STA 492+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS04 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

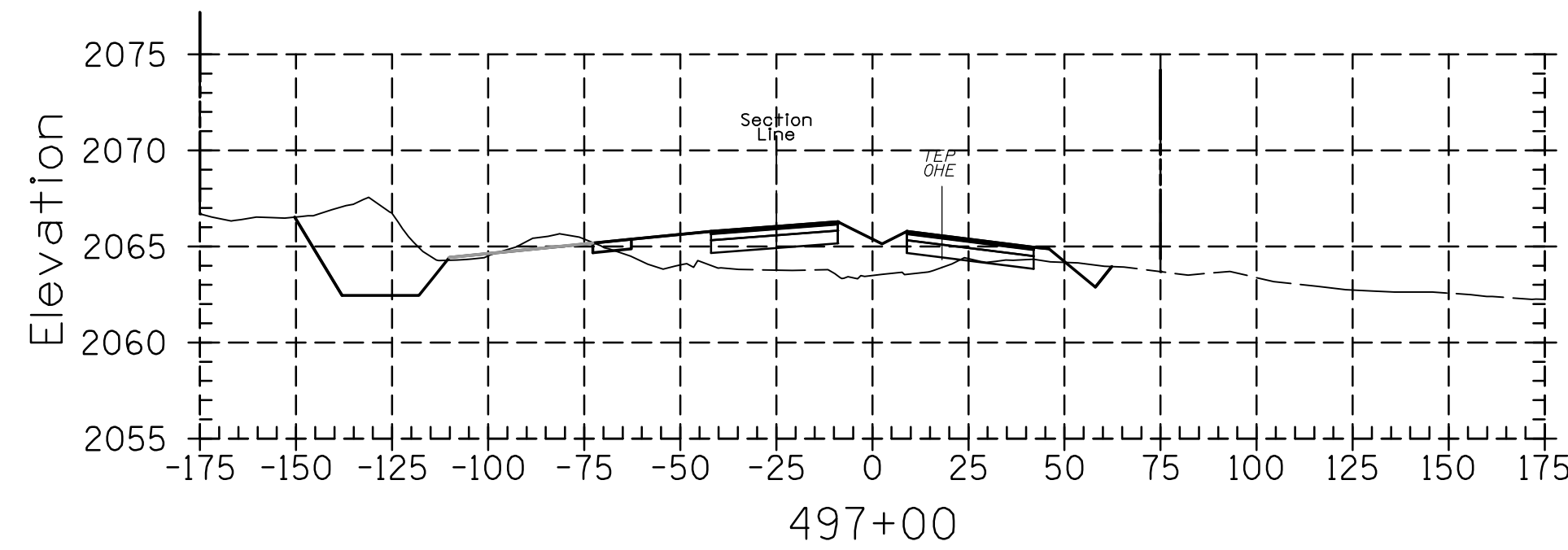
CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 480+00 TO 492+00
 TANGERINE ROAD

PSOMAS
 333 E. Wetmore Road, Suite 450
 Tucson, AZ 85705
 (520) 292-2300 (520) 292-1280 fax
 www.psomas.com

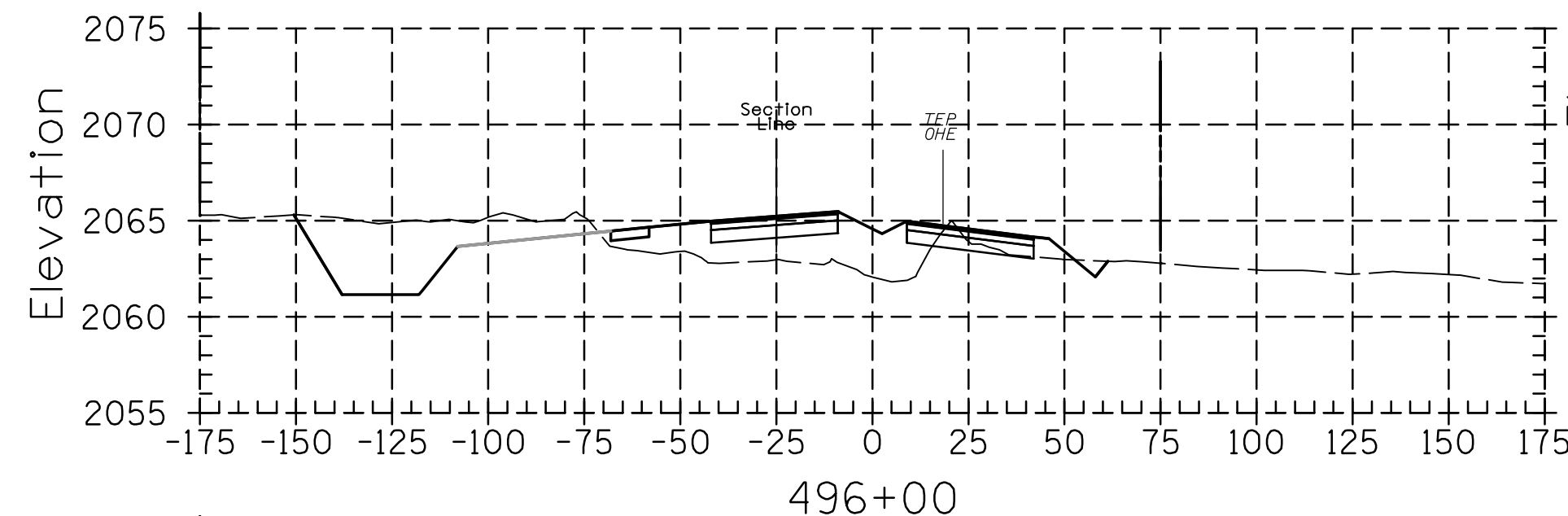
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 CONSTRUCTION

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

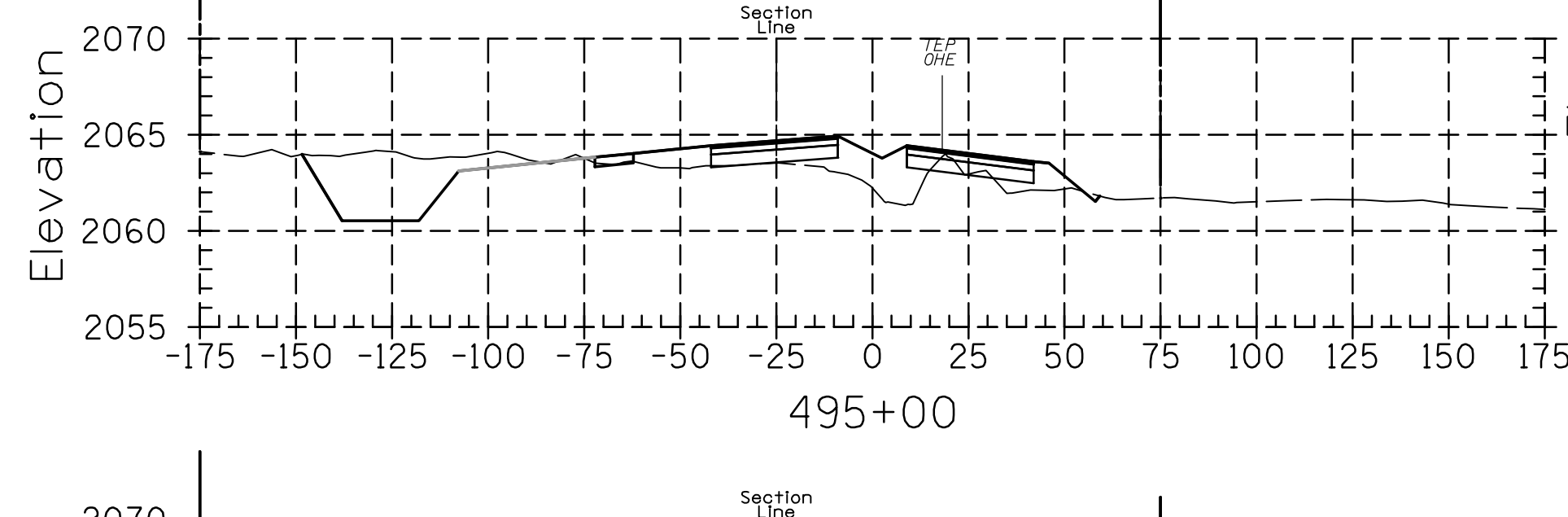
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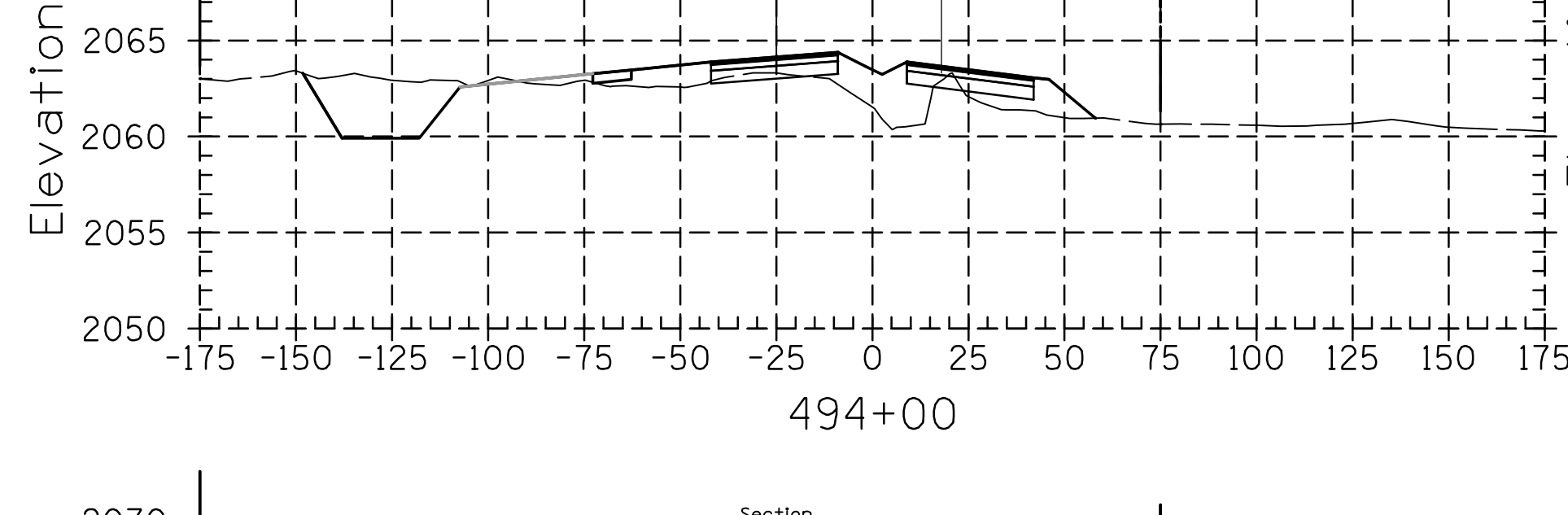
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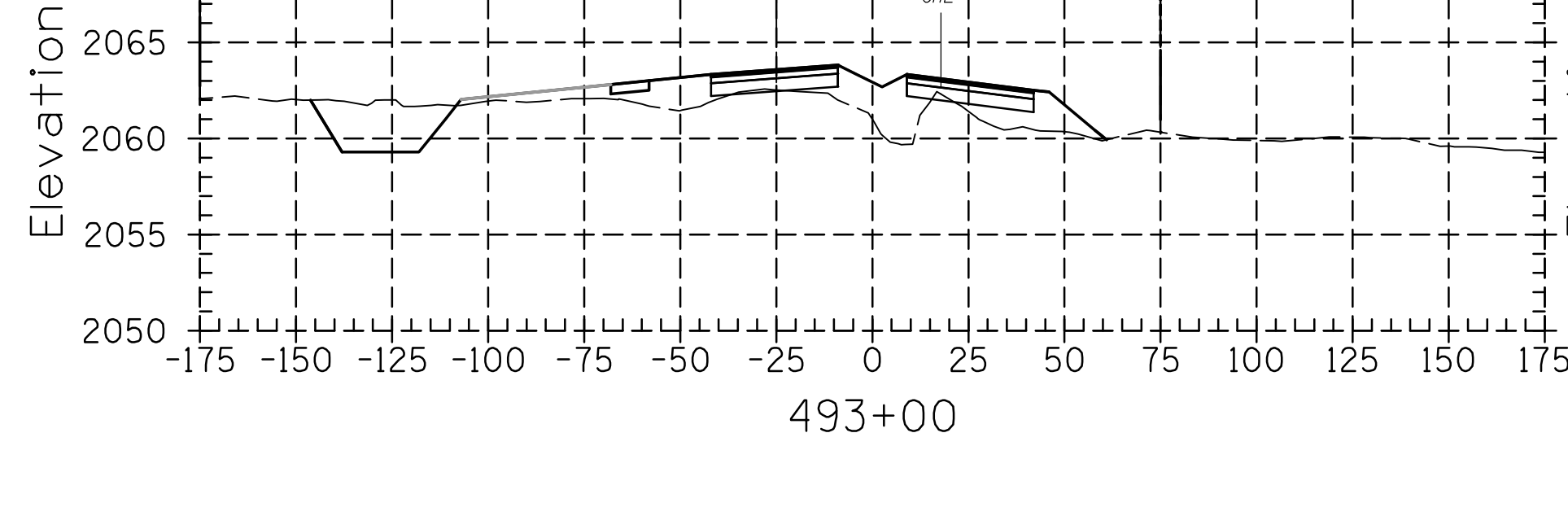
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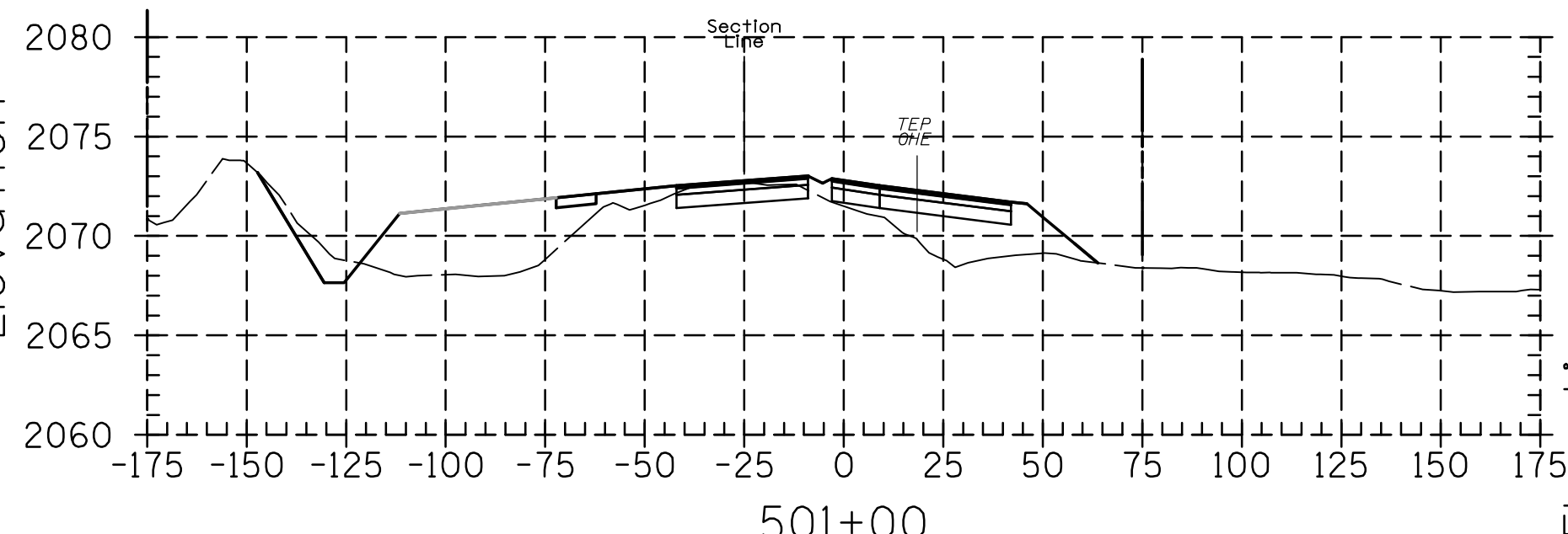
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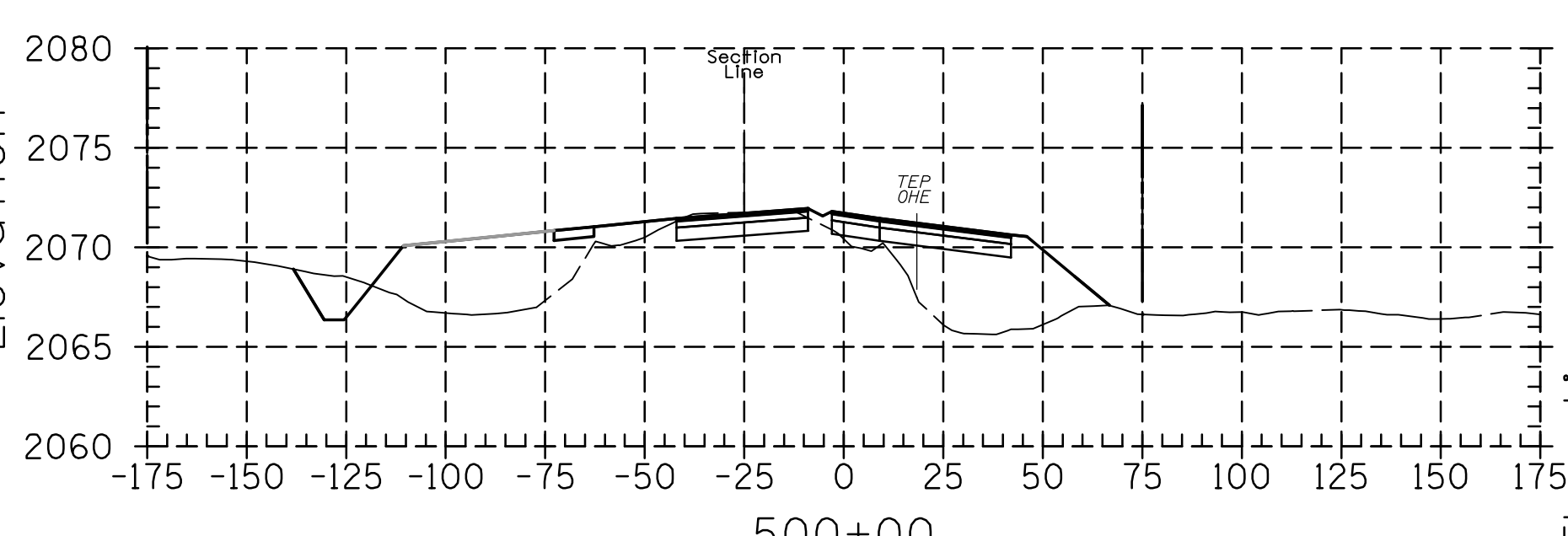
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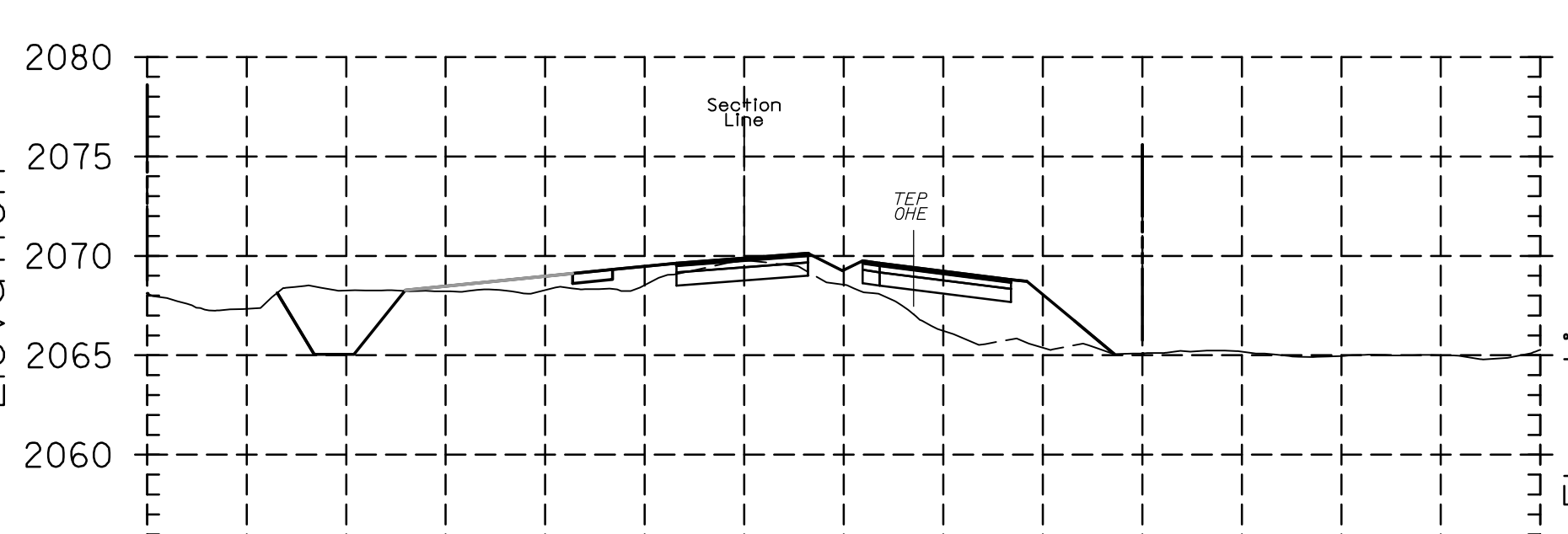
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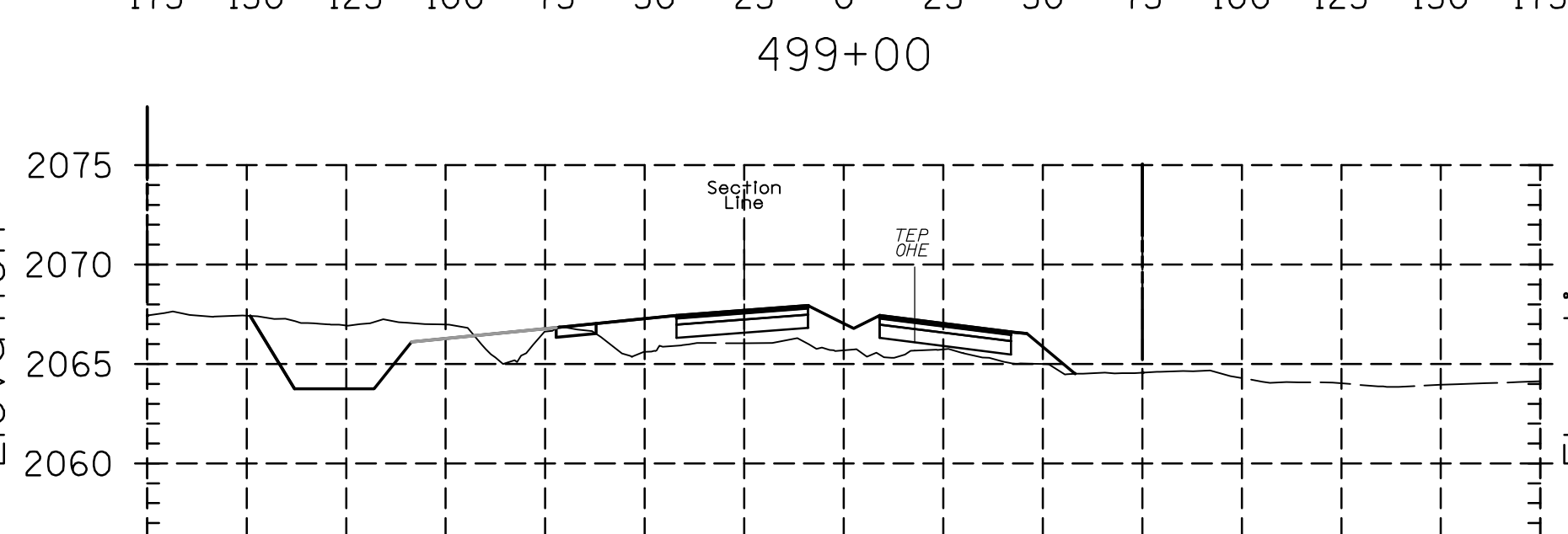
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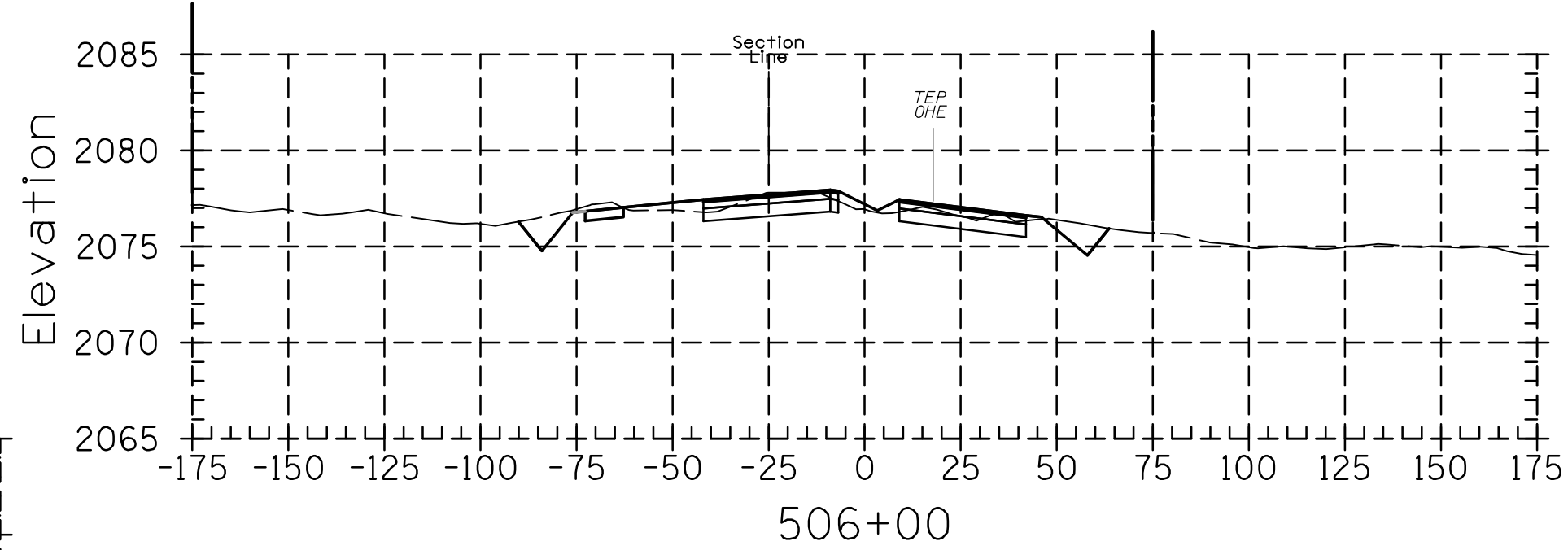
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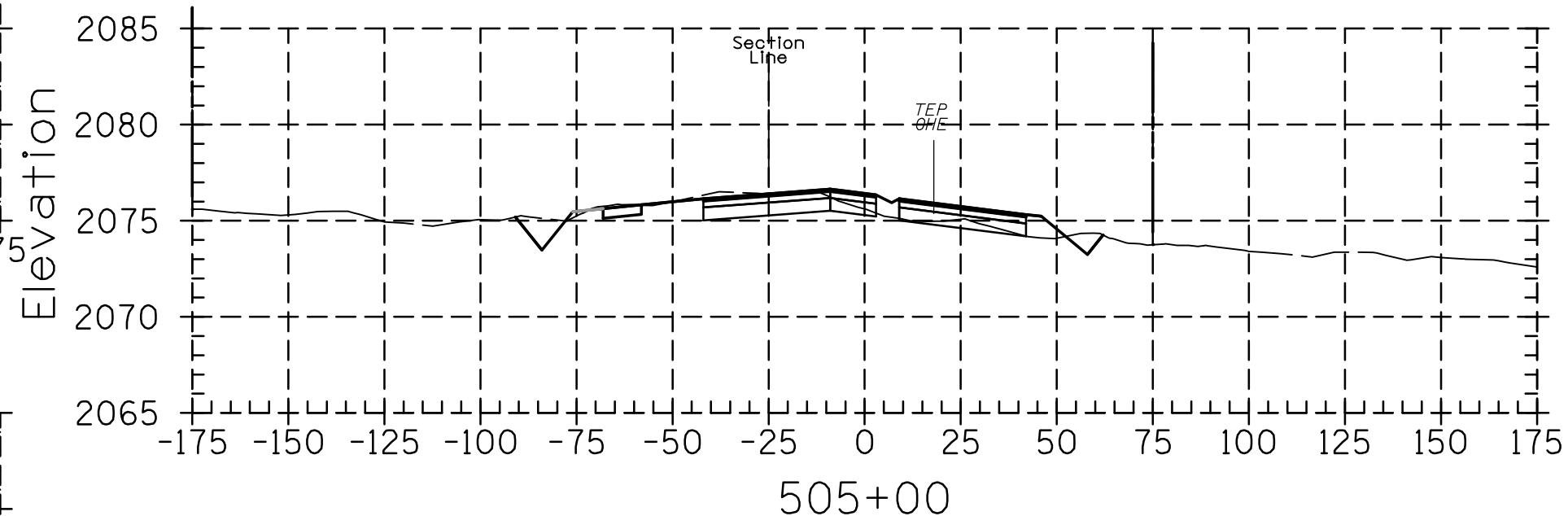
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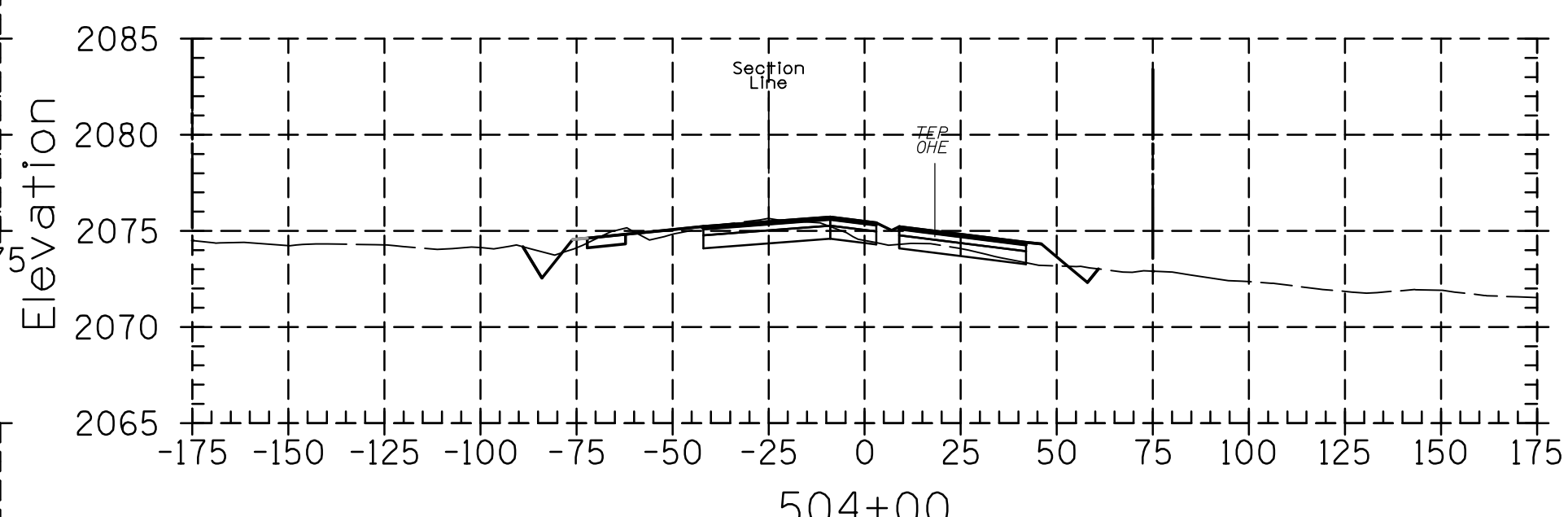
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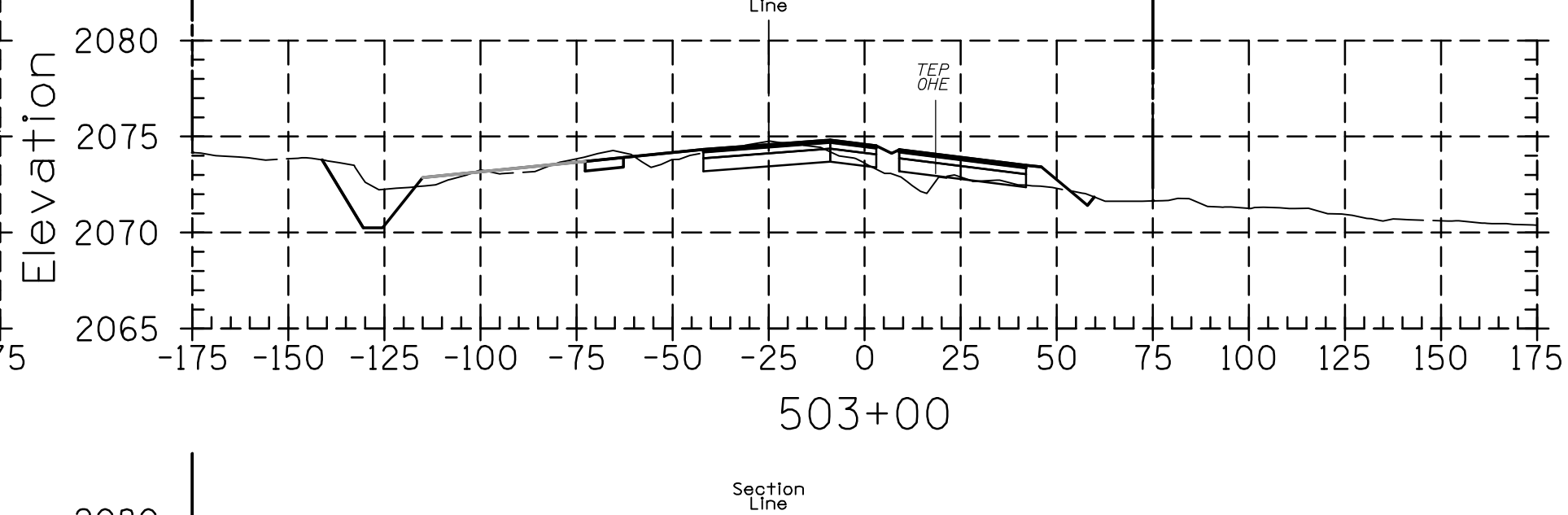
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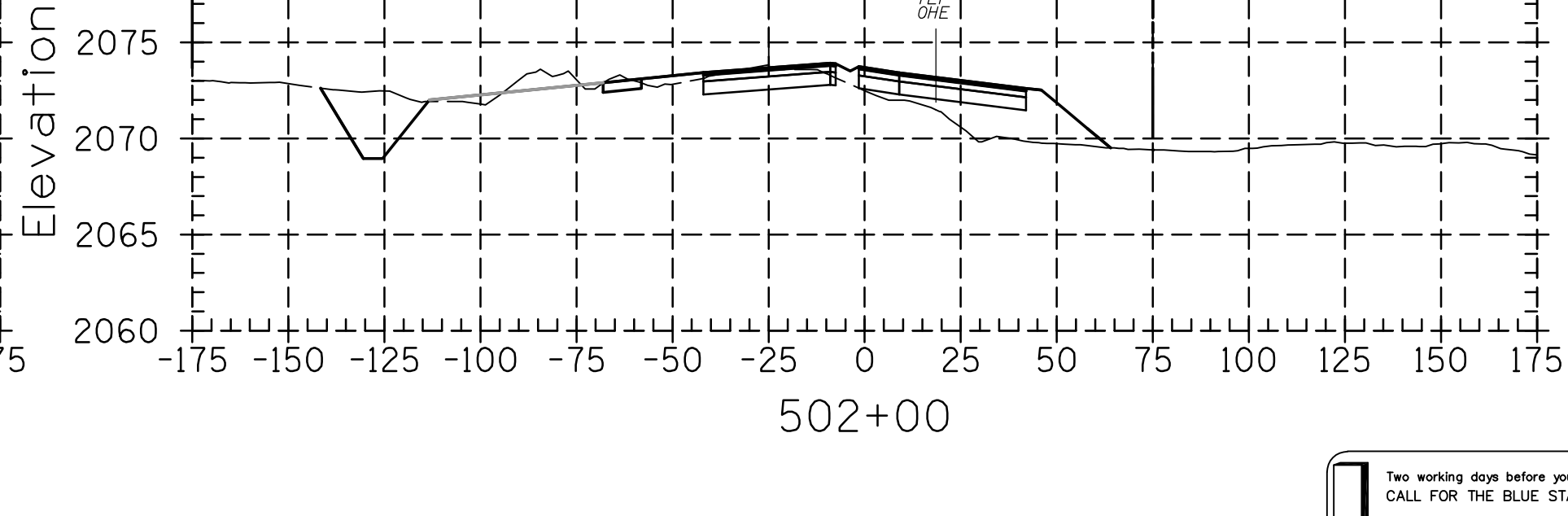
505+00



504+00



503+00



502+00

STA 493+00 TO STA 506+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS05 OF XS31

PAGE OF

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PROJ. ENG.:	AA	DATE	12/12

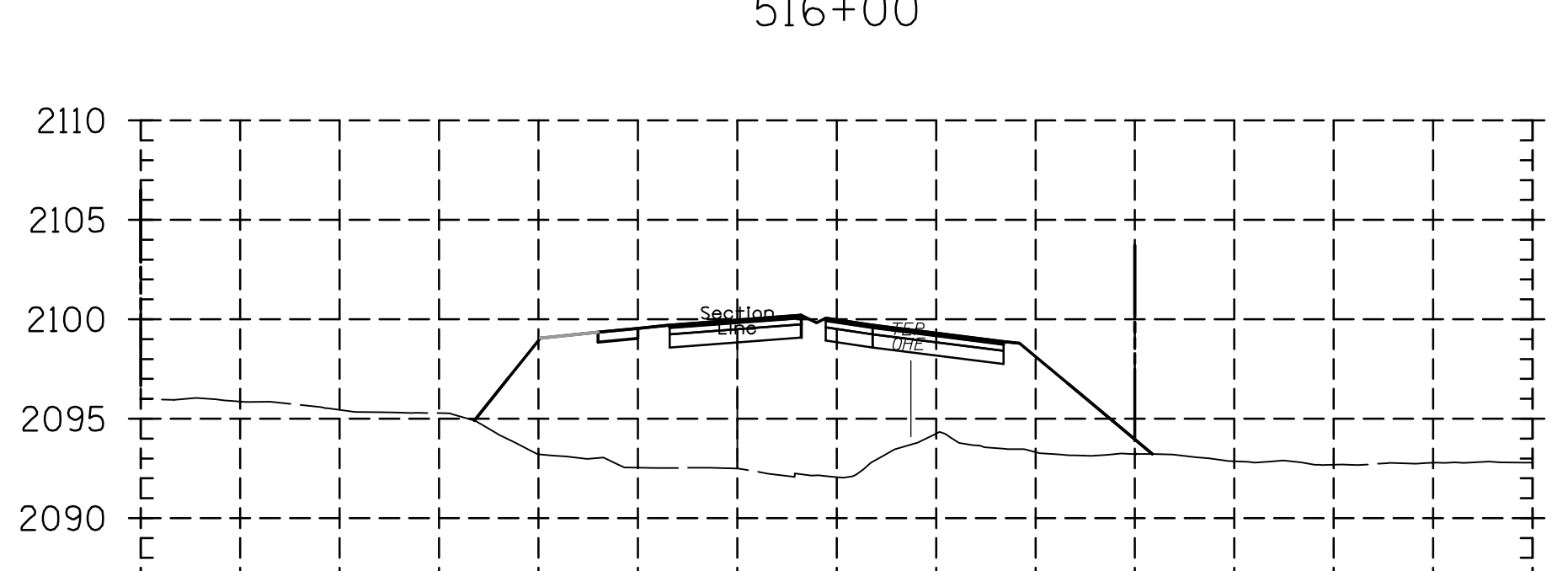
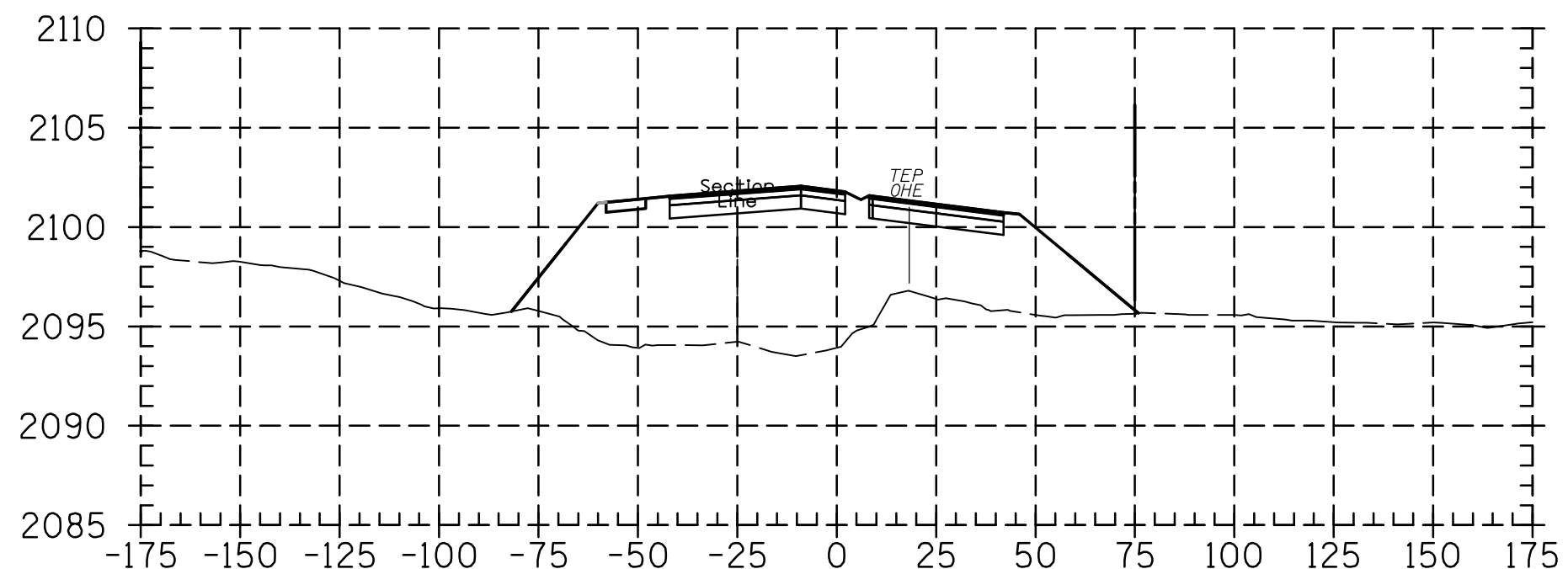
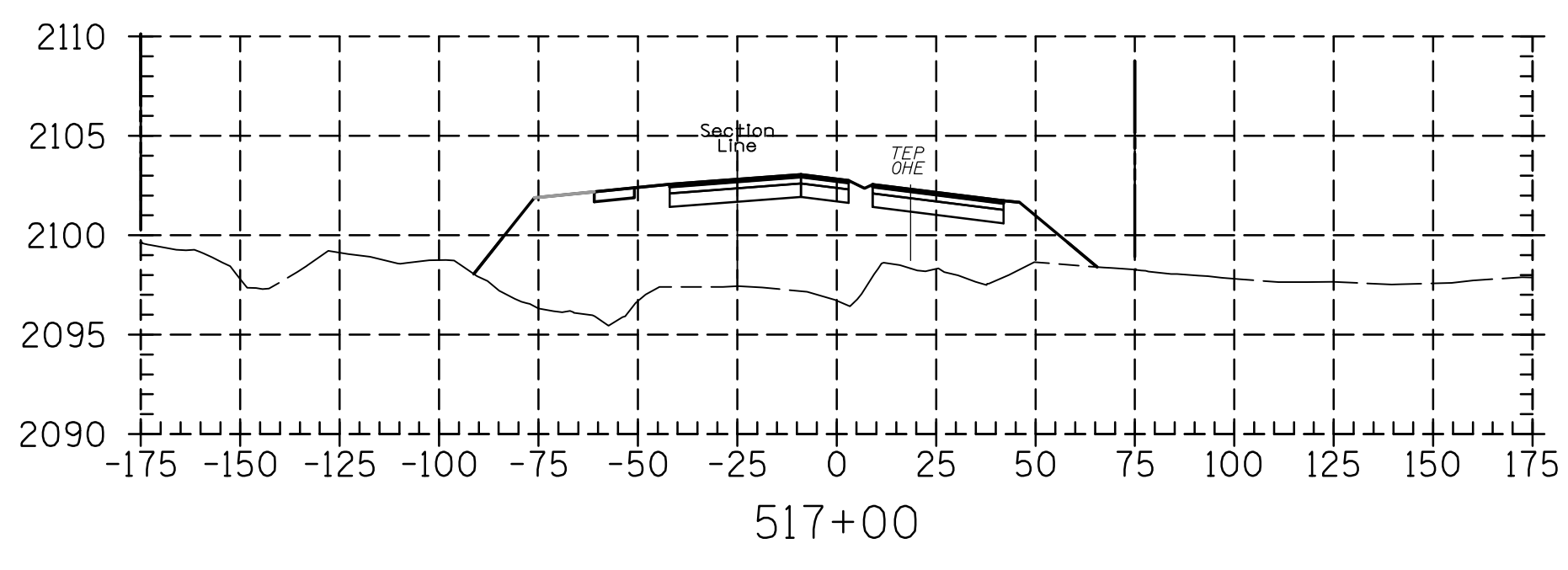
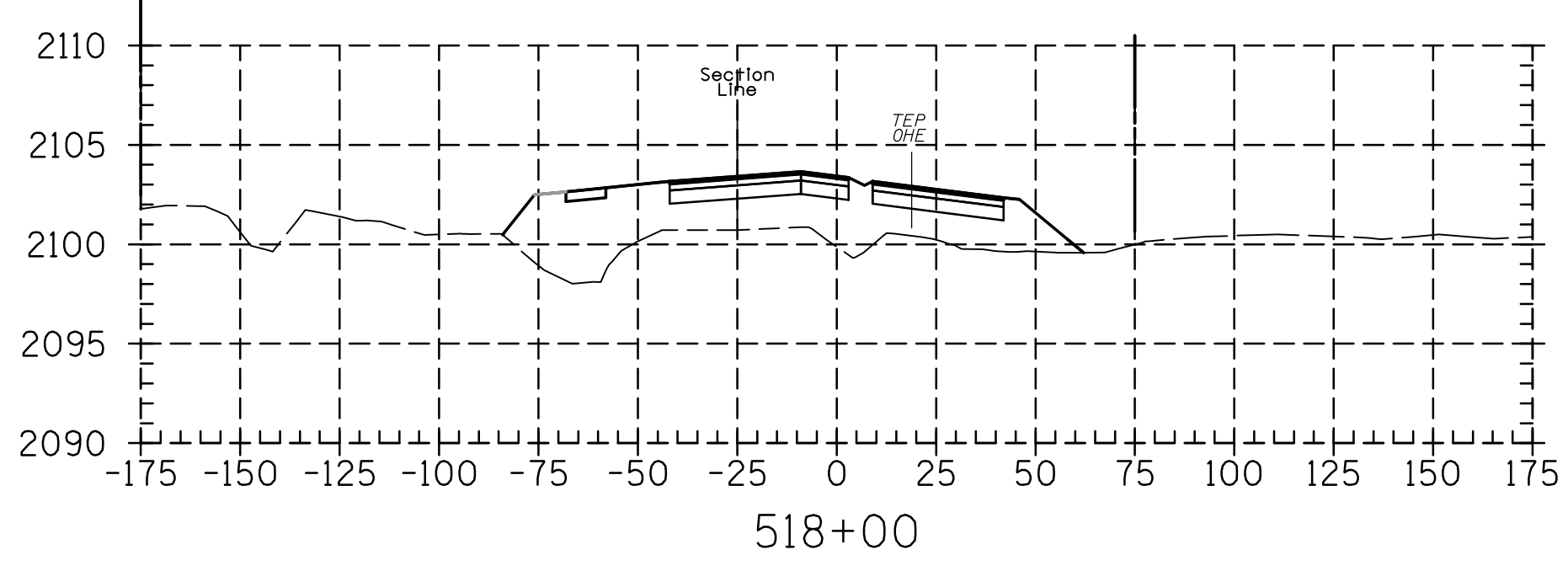
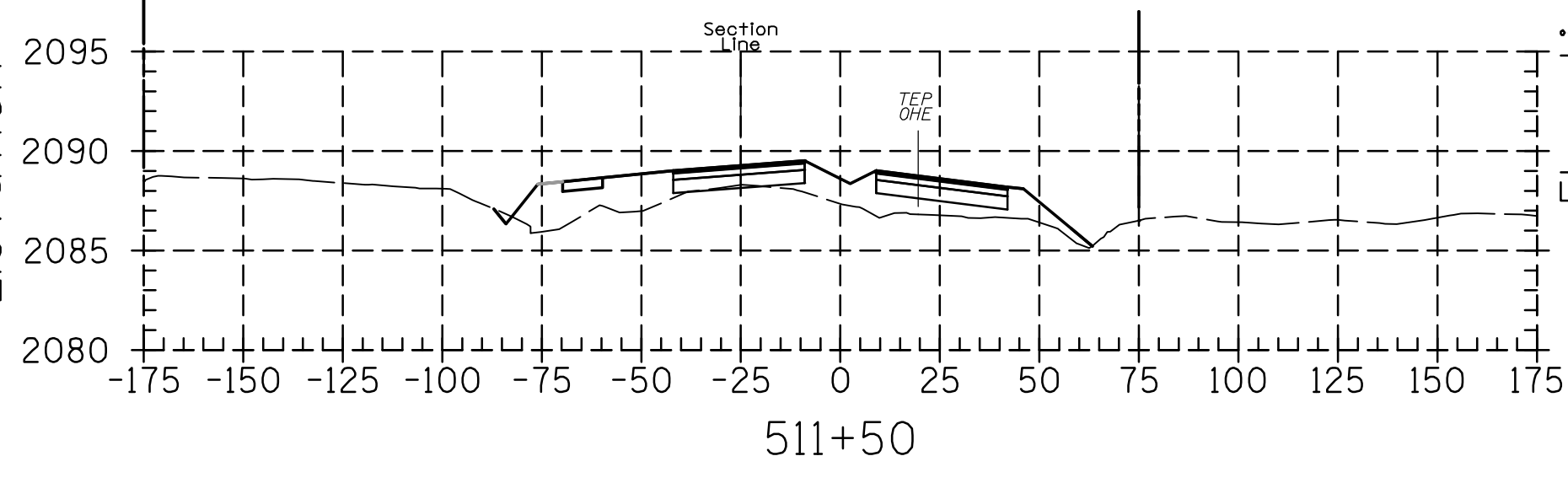
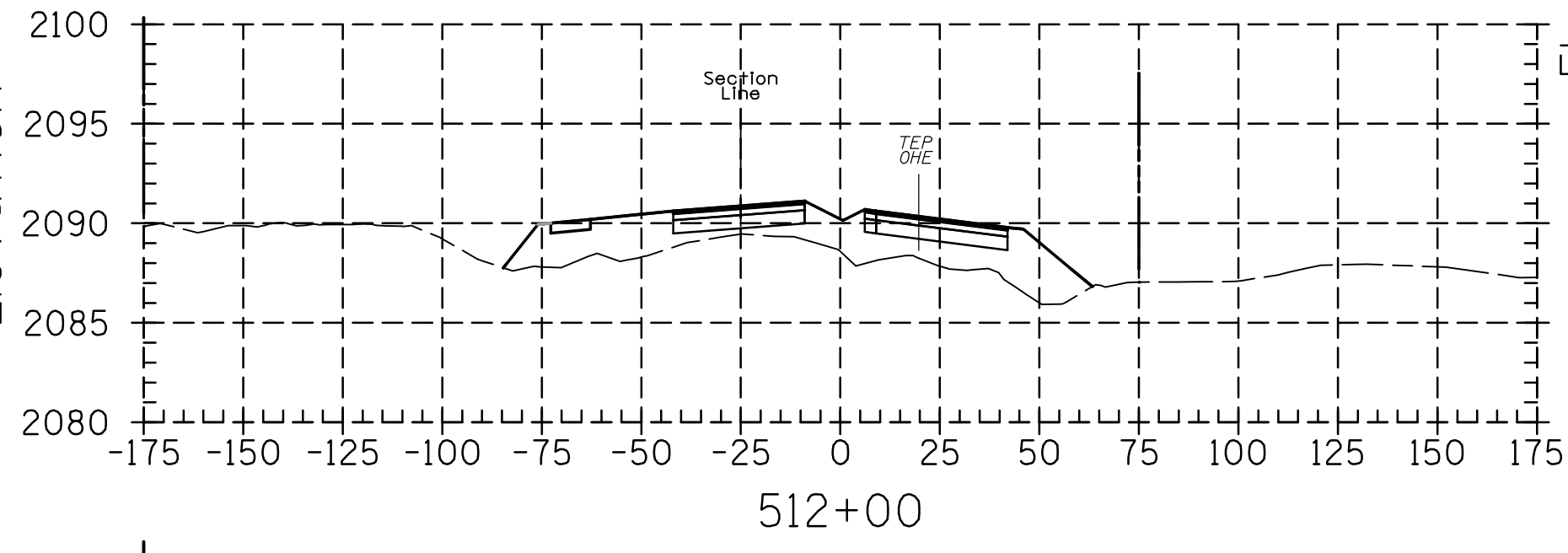
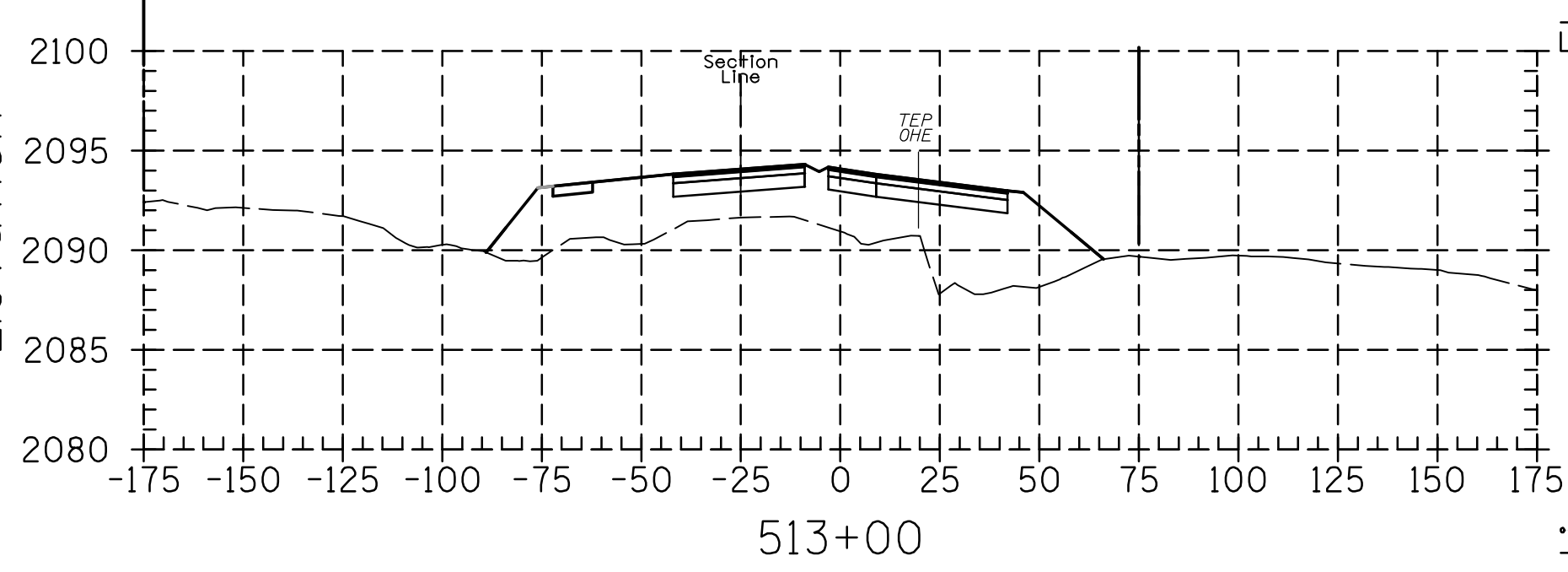
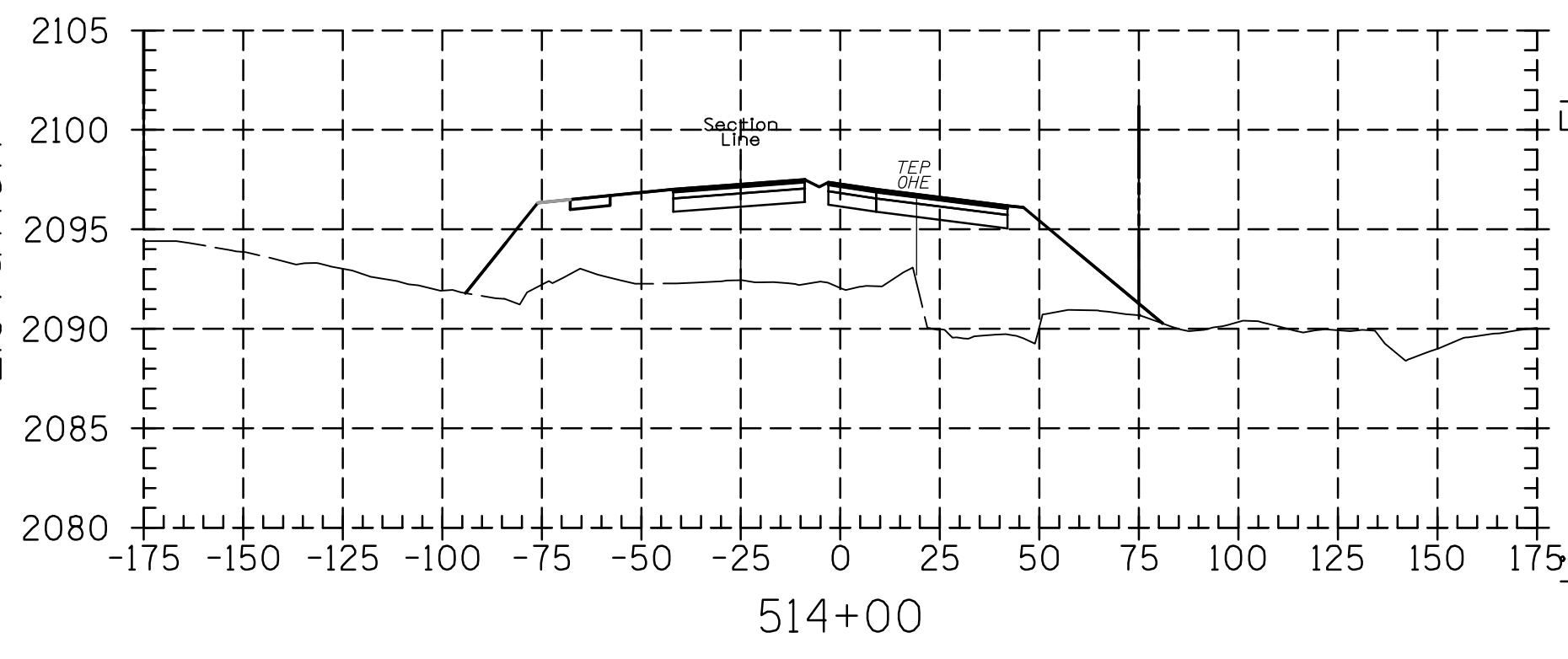
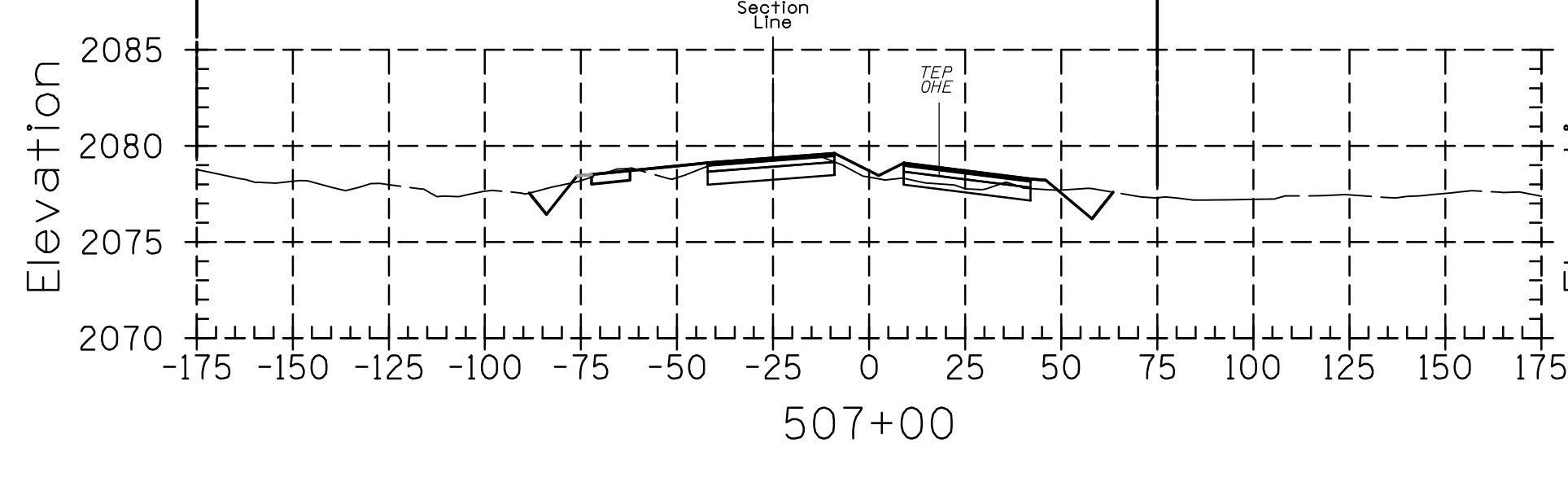
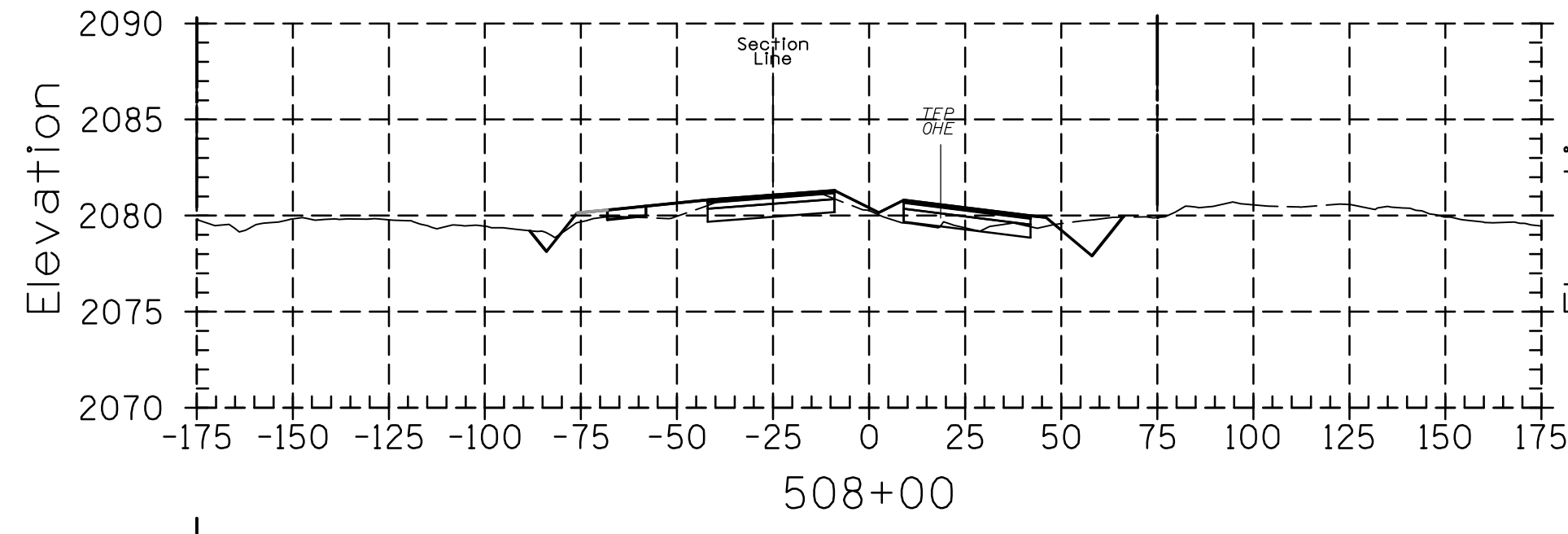
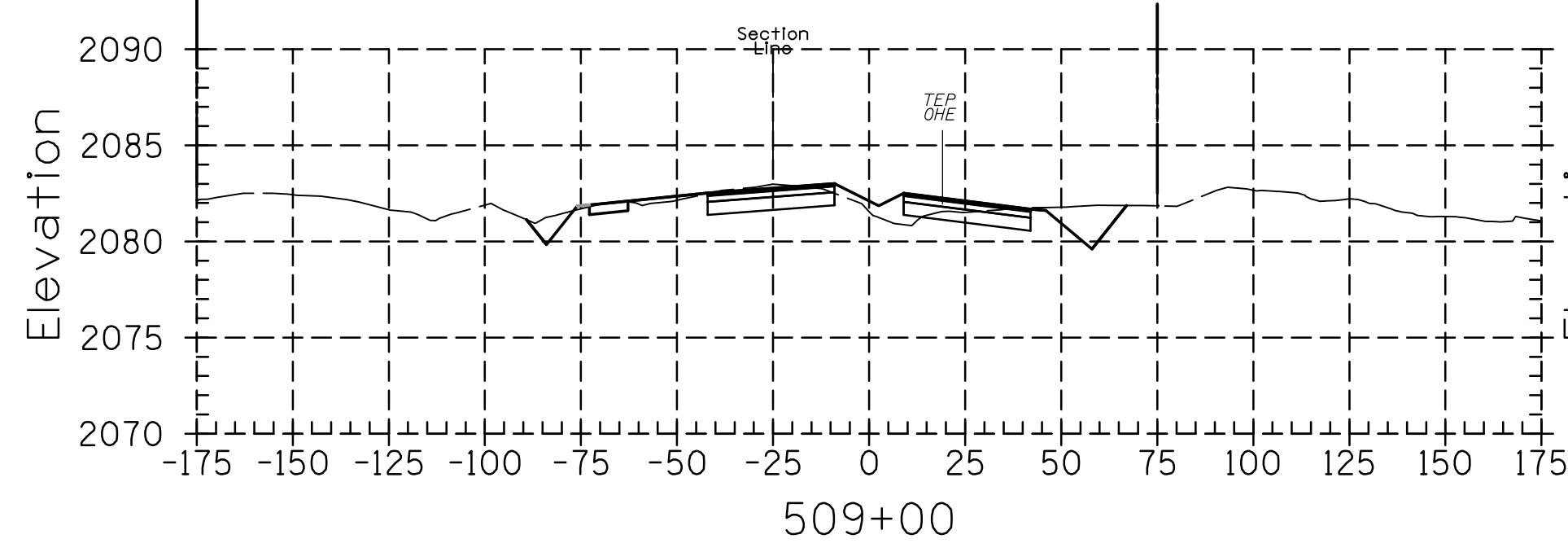
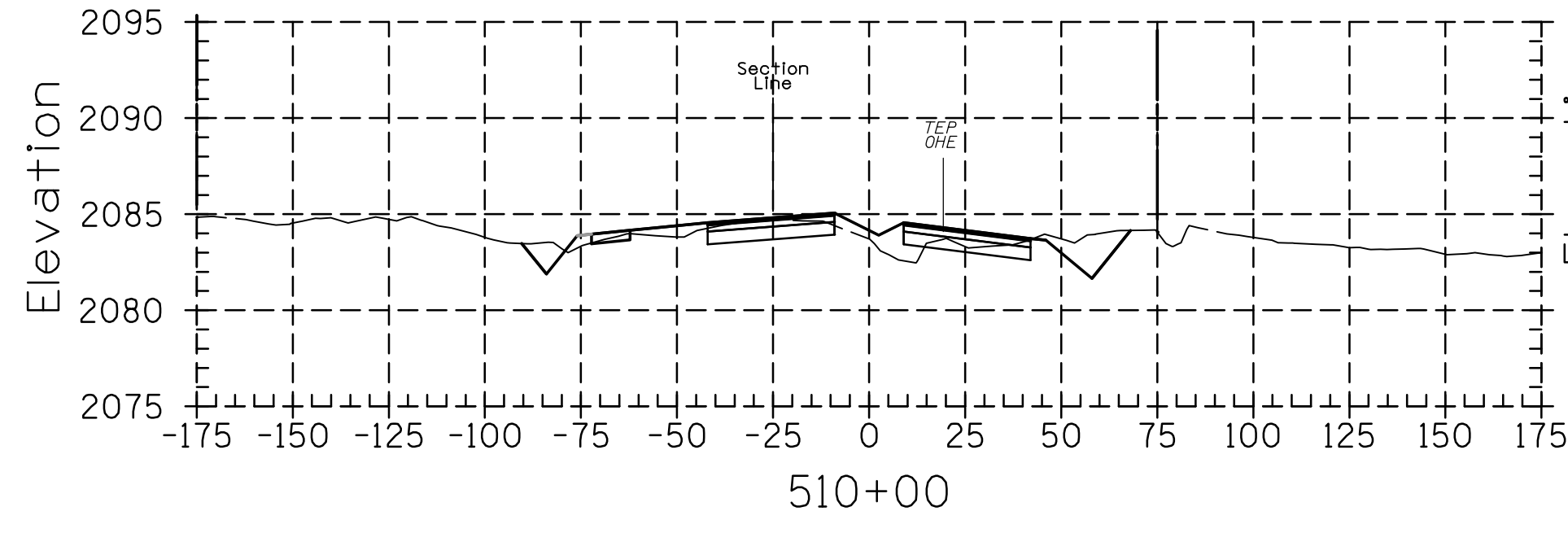
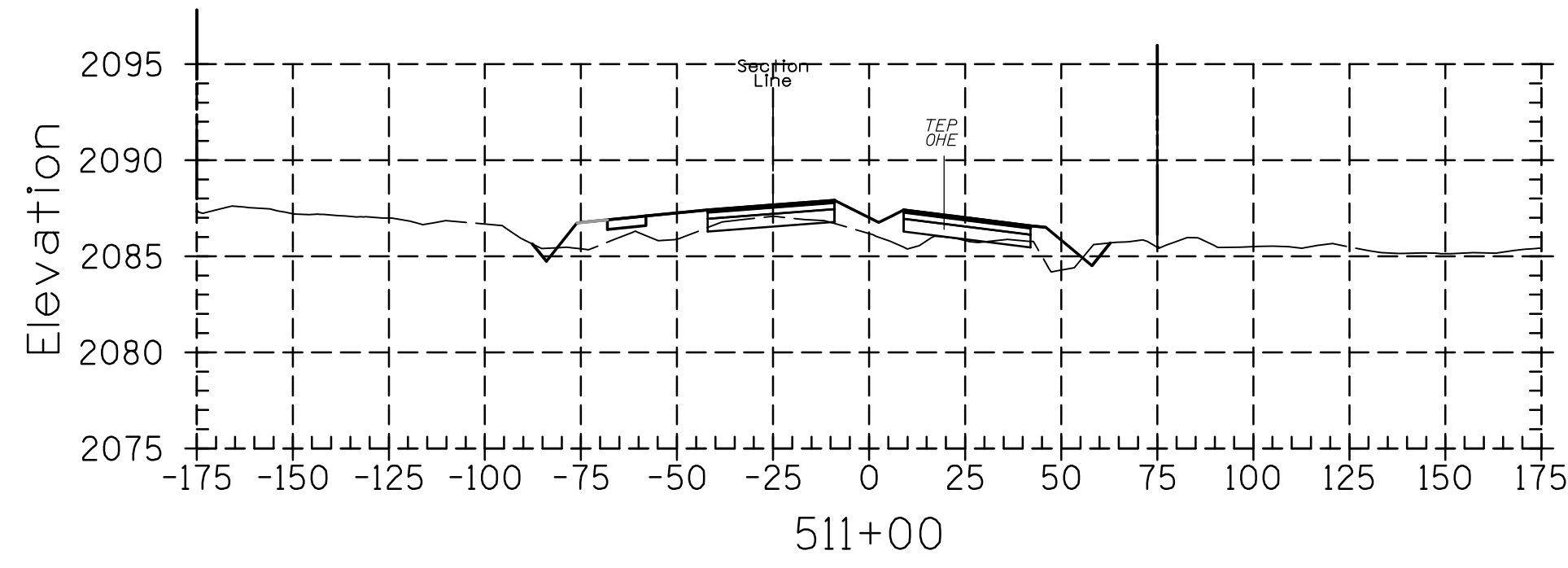
NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
FOR
TANGERINE ROAD
STA 493+00 TO 506+00
TANGERINE ROAD



STA 507+00 TO STA 518+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS06 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
STA 507+00 TO 518+00
TANGERINE ROAD

PSOMAS
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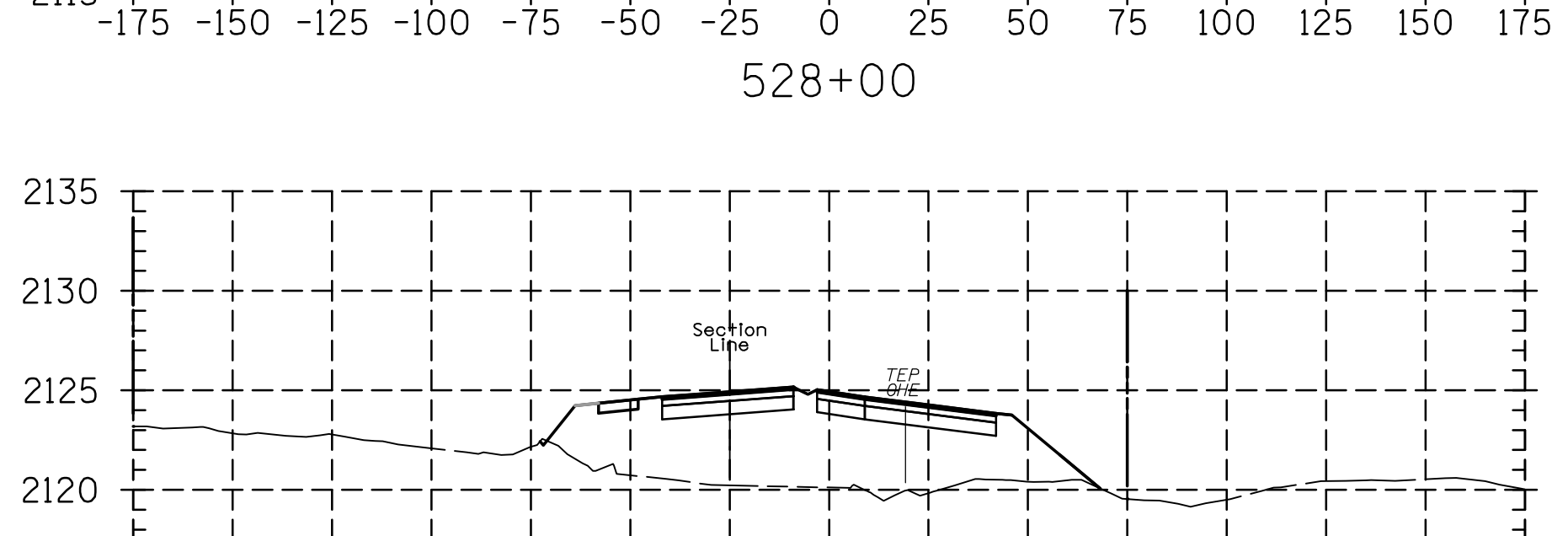
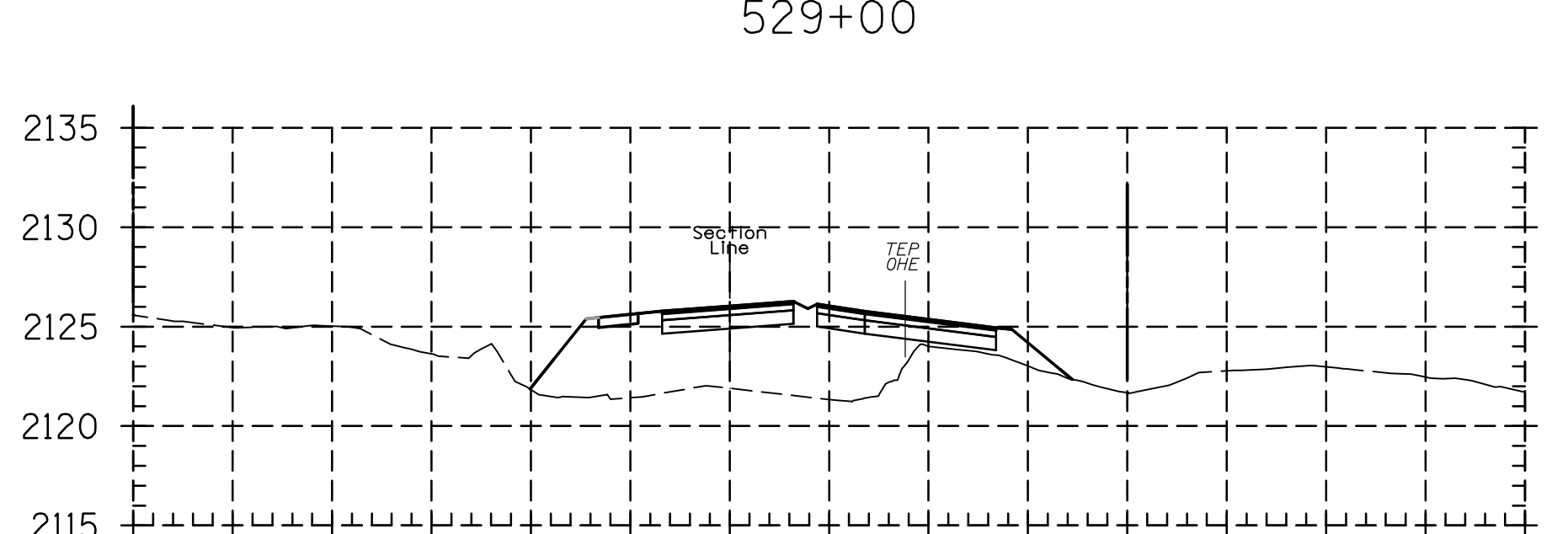
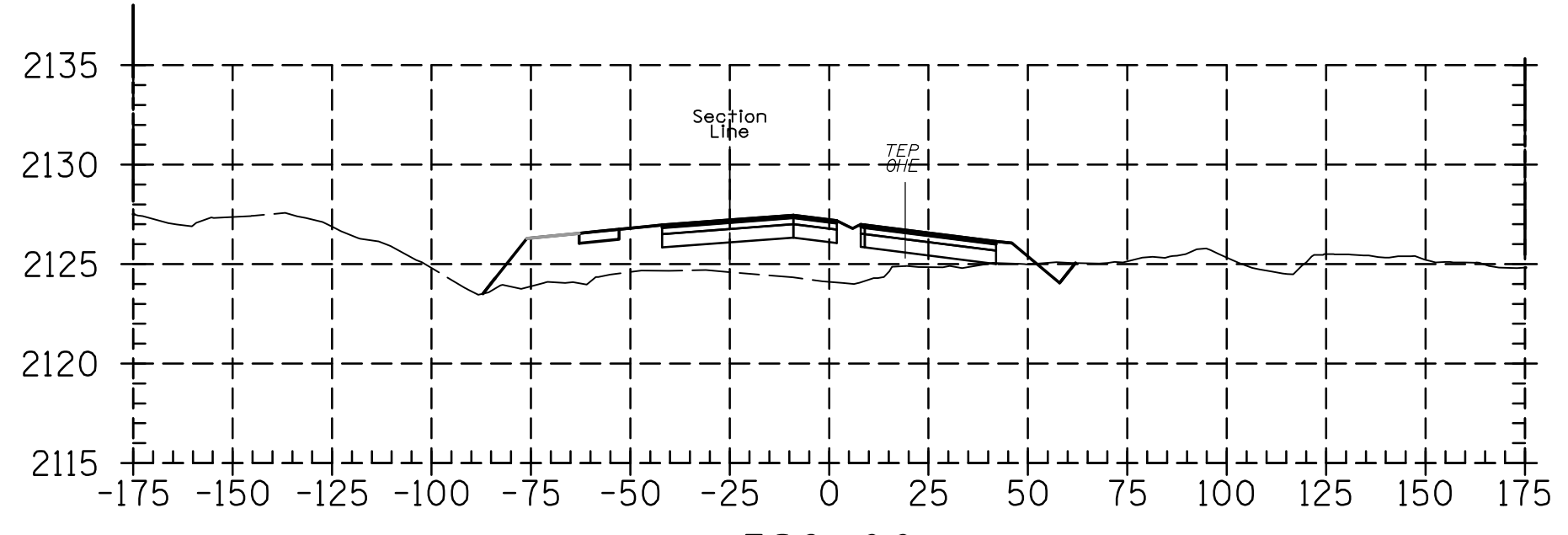
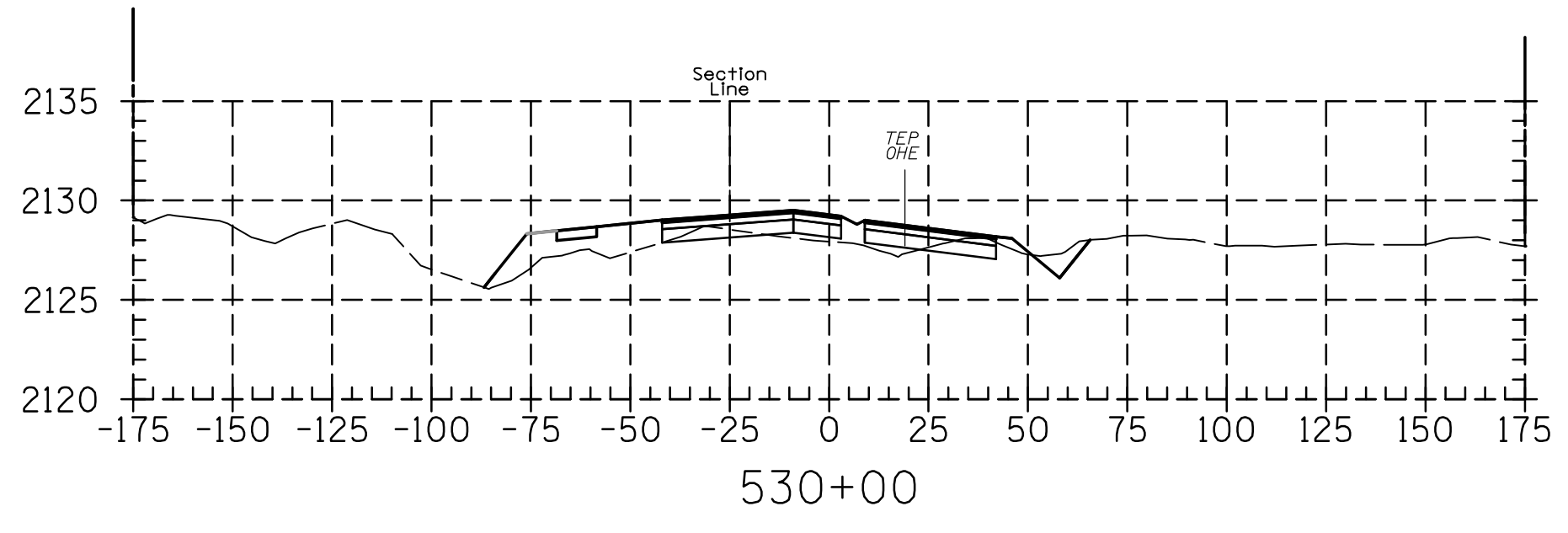
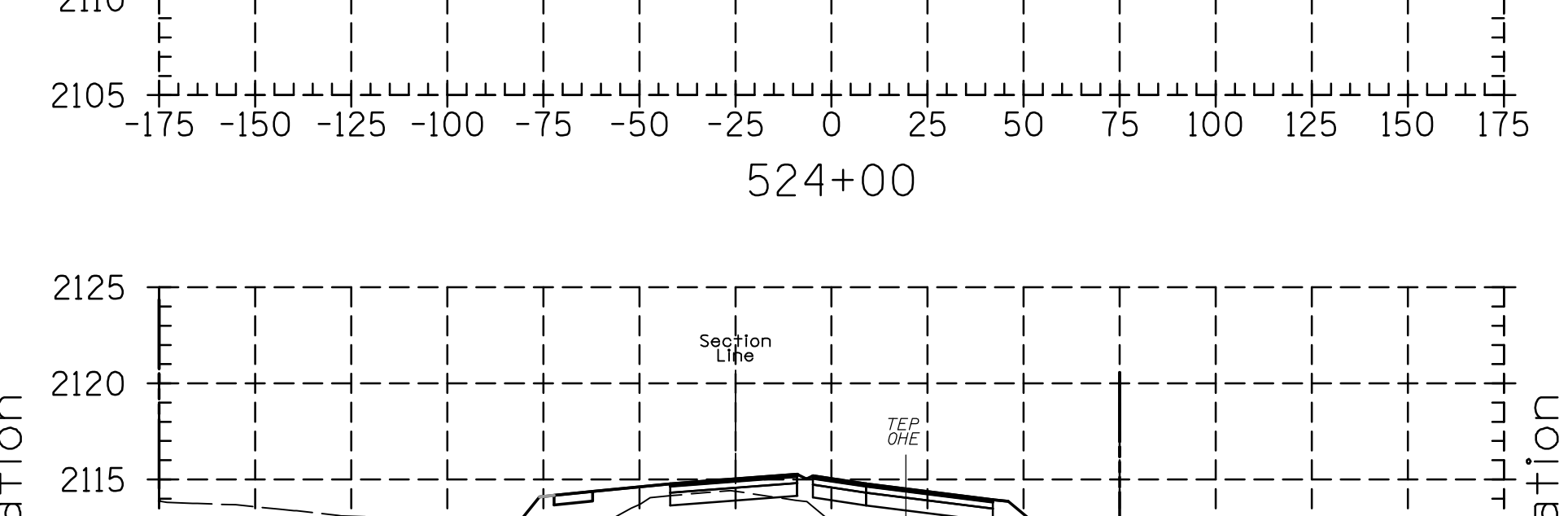
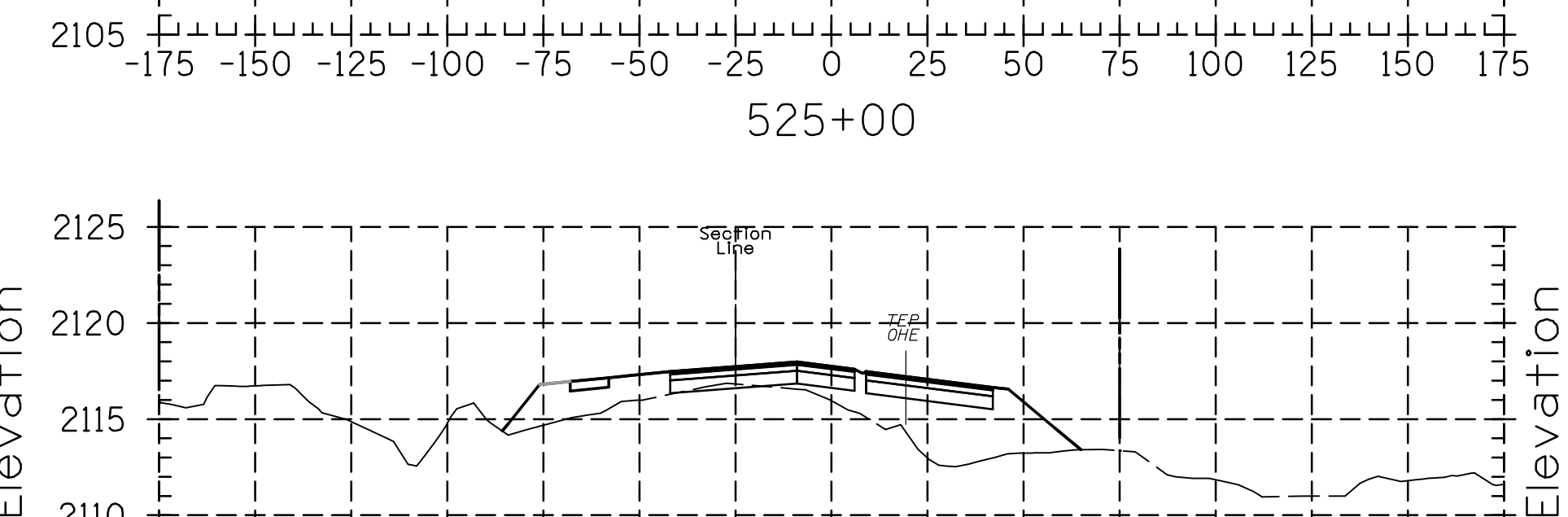
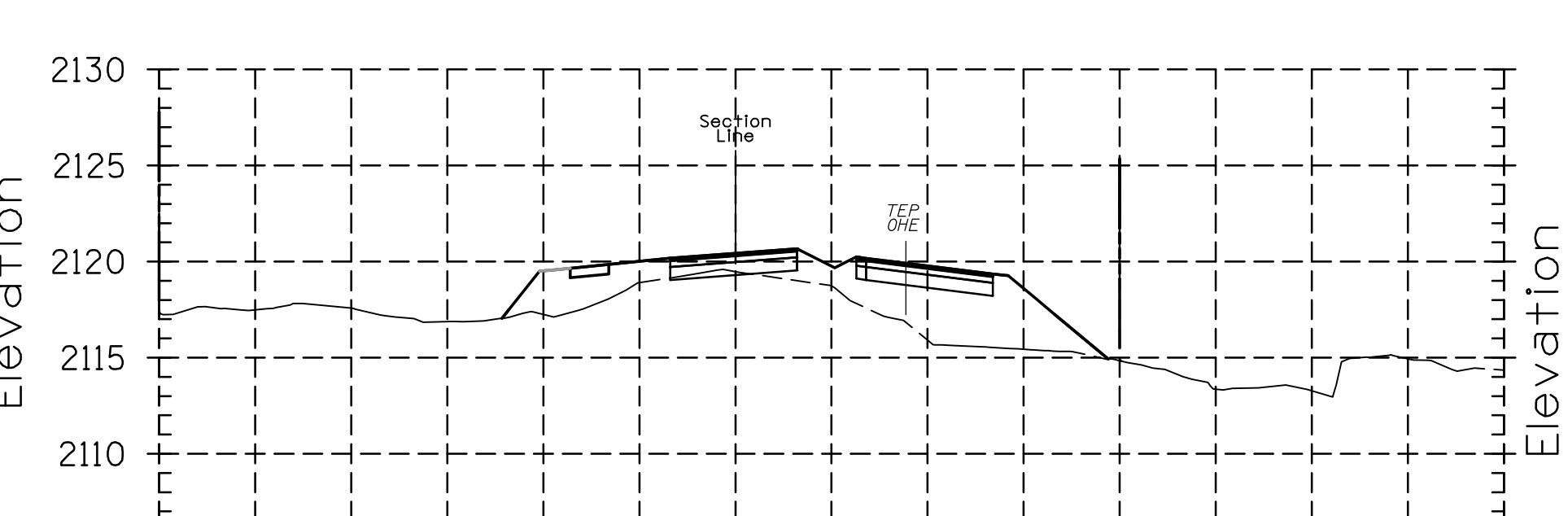
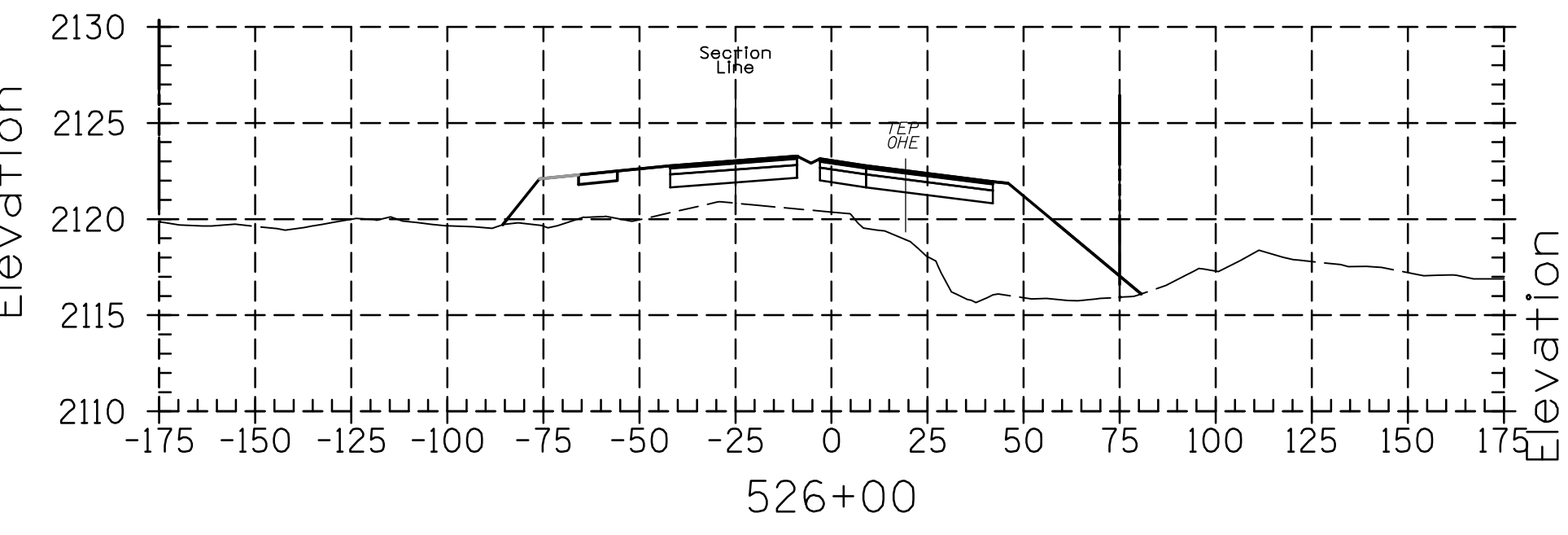
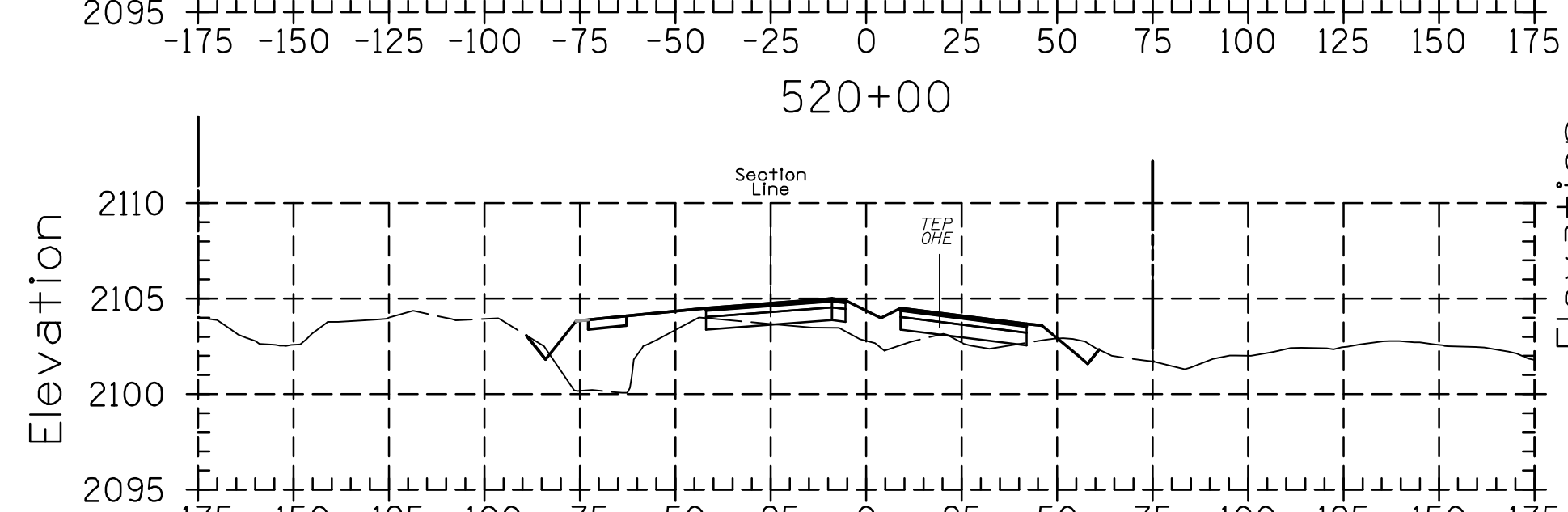
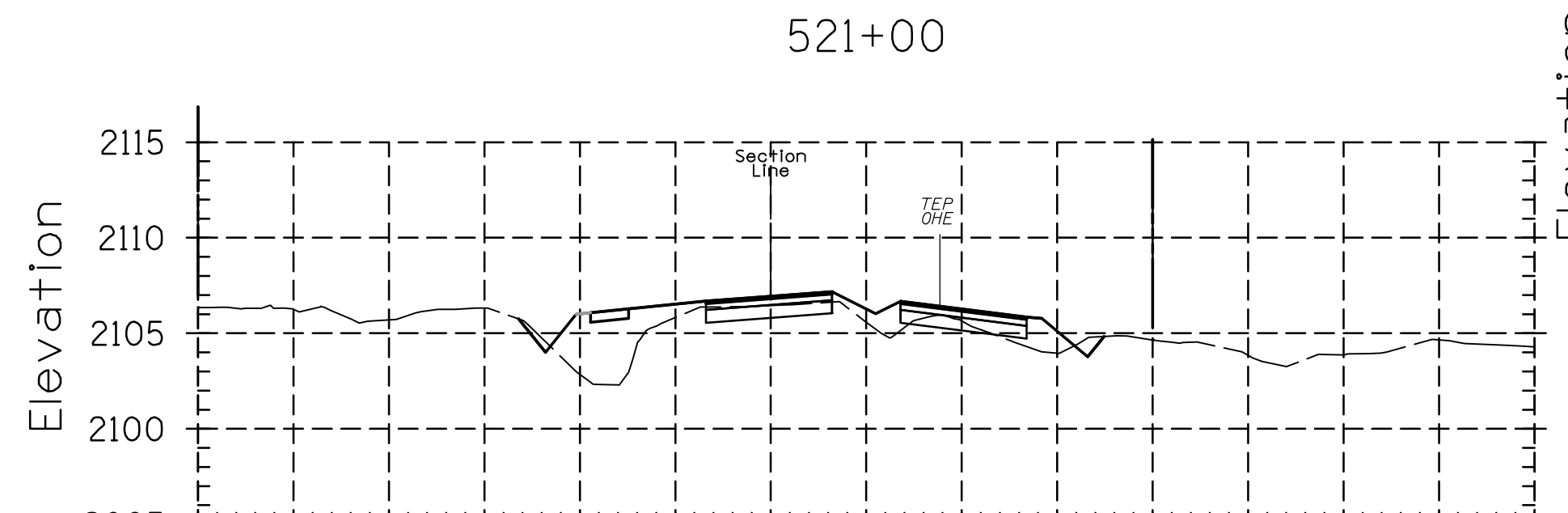
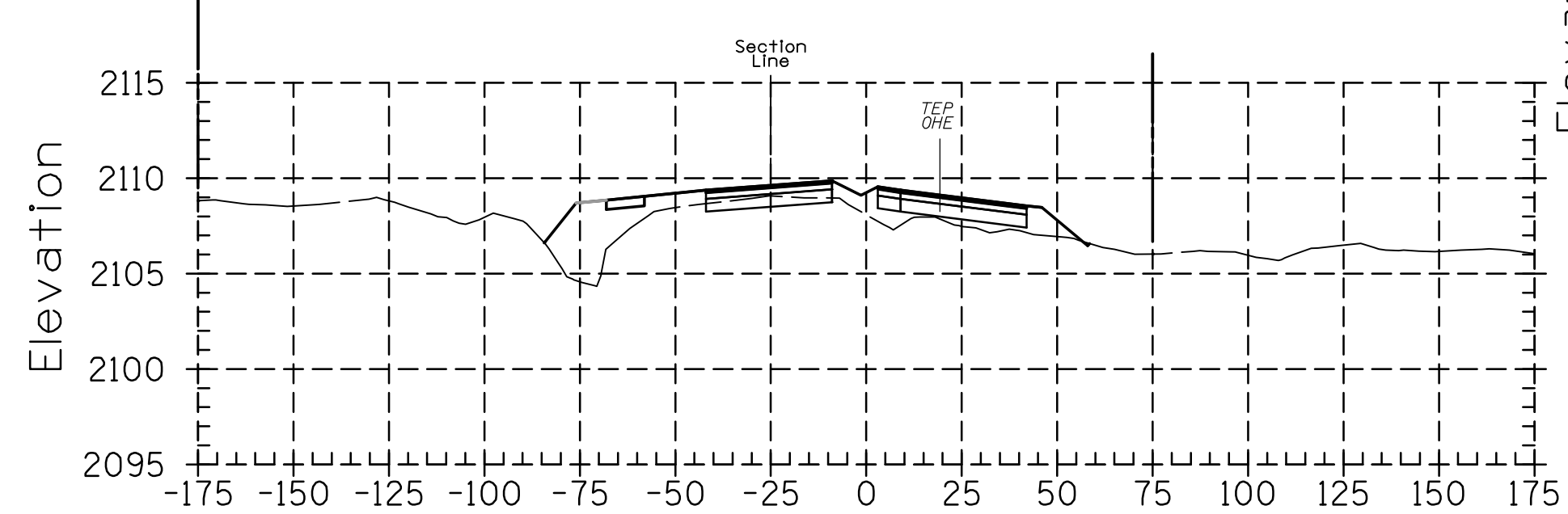
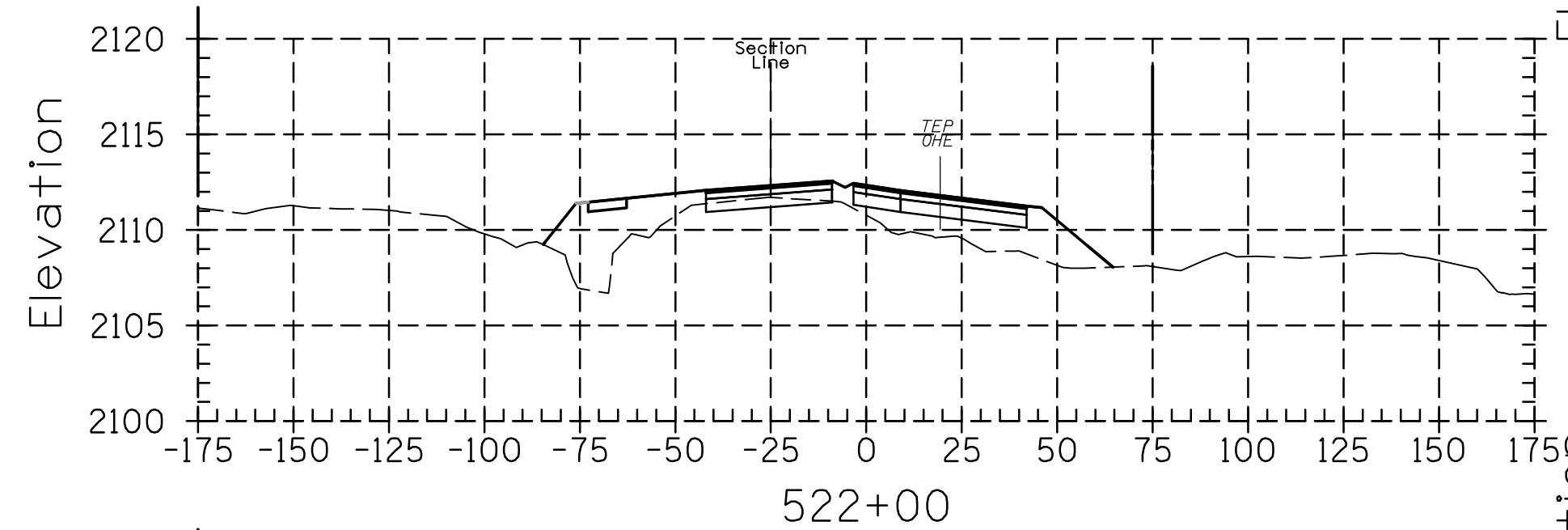
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CONSTRUCTION**

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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DRAWN:	DATE
CZ	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

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STA 519+00 TO STA 530+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS07 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 519+00 TO 530+00
 TANGERINE ROAD

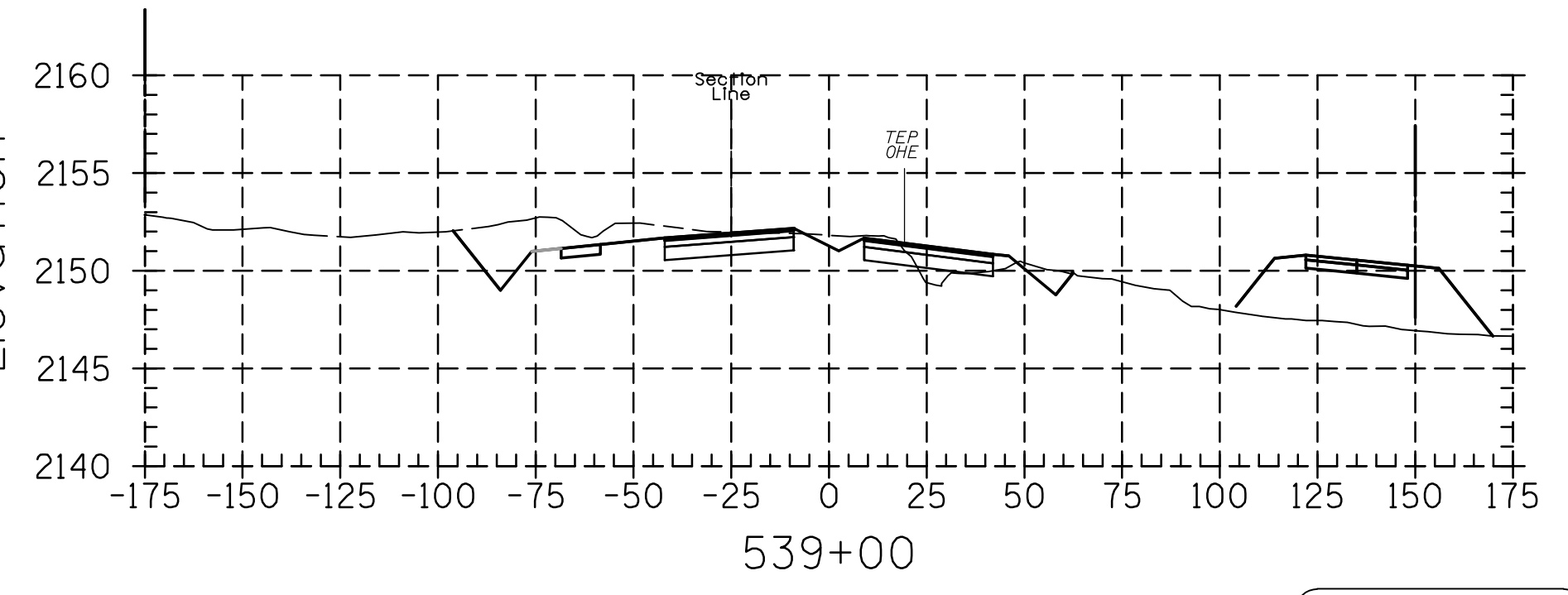
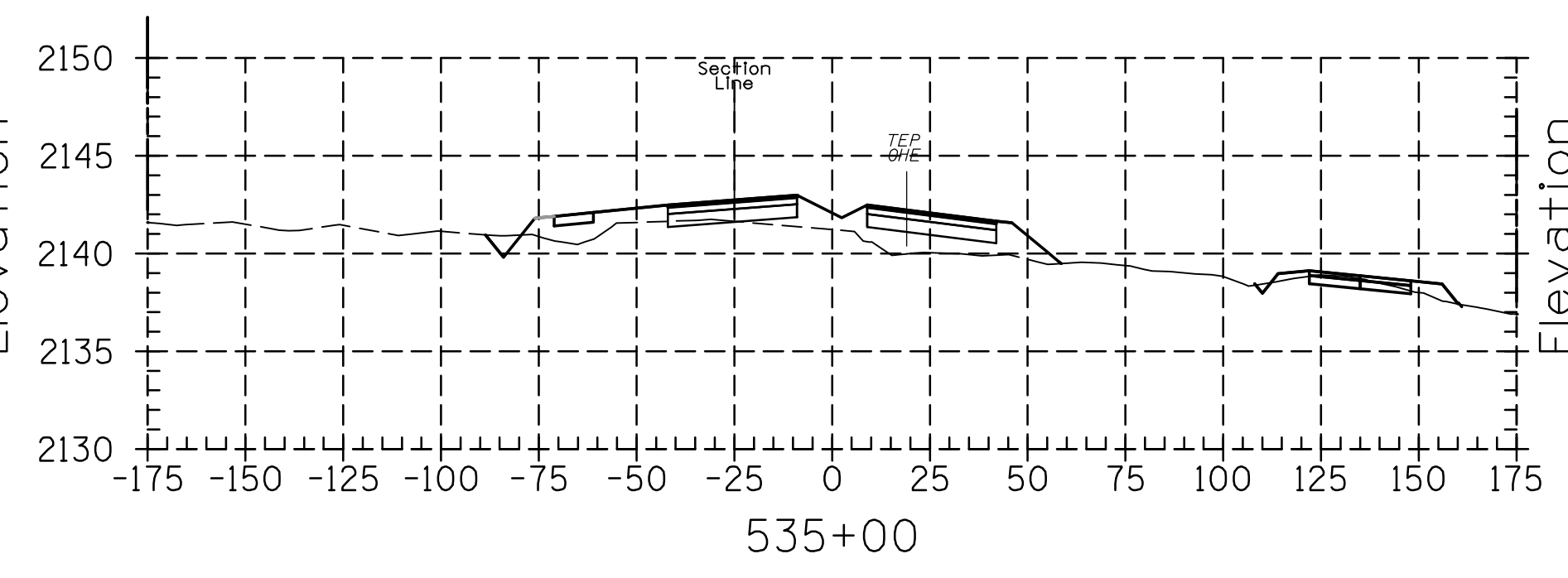
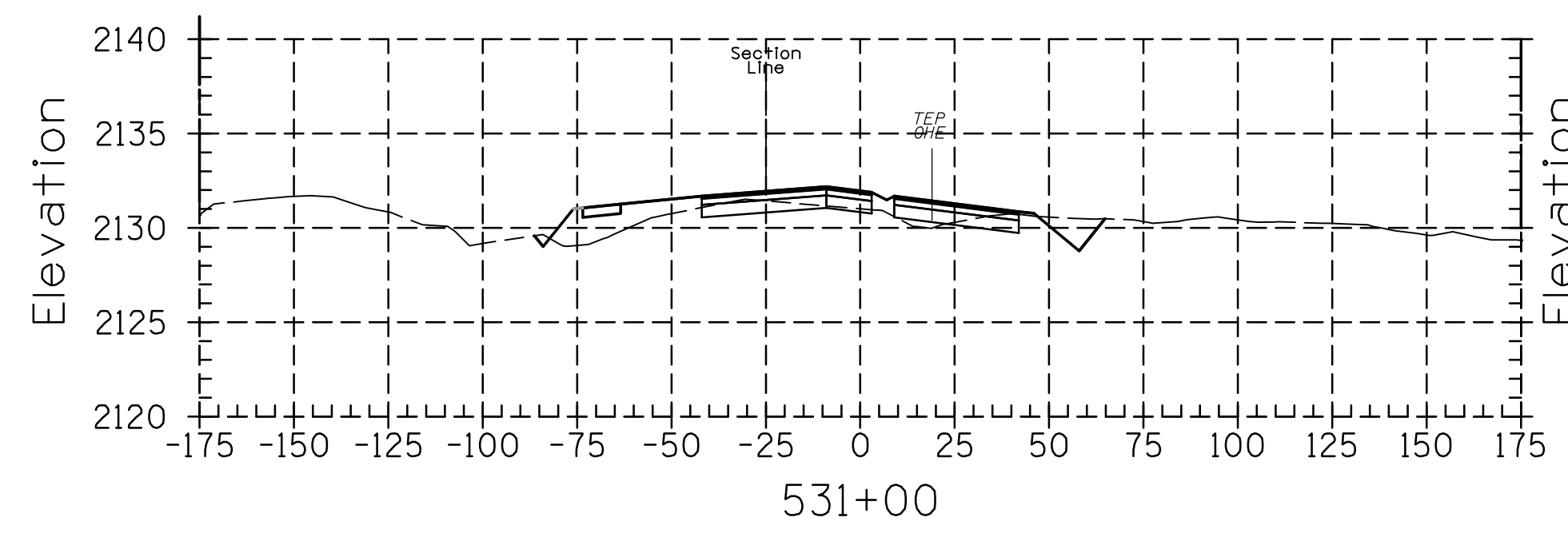
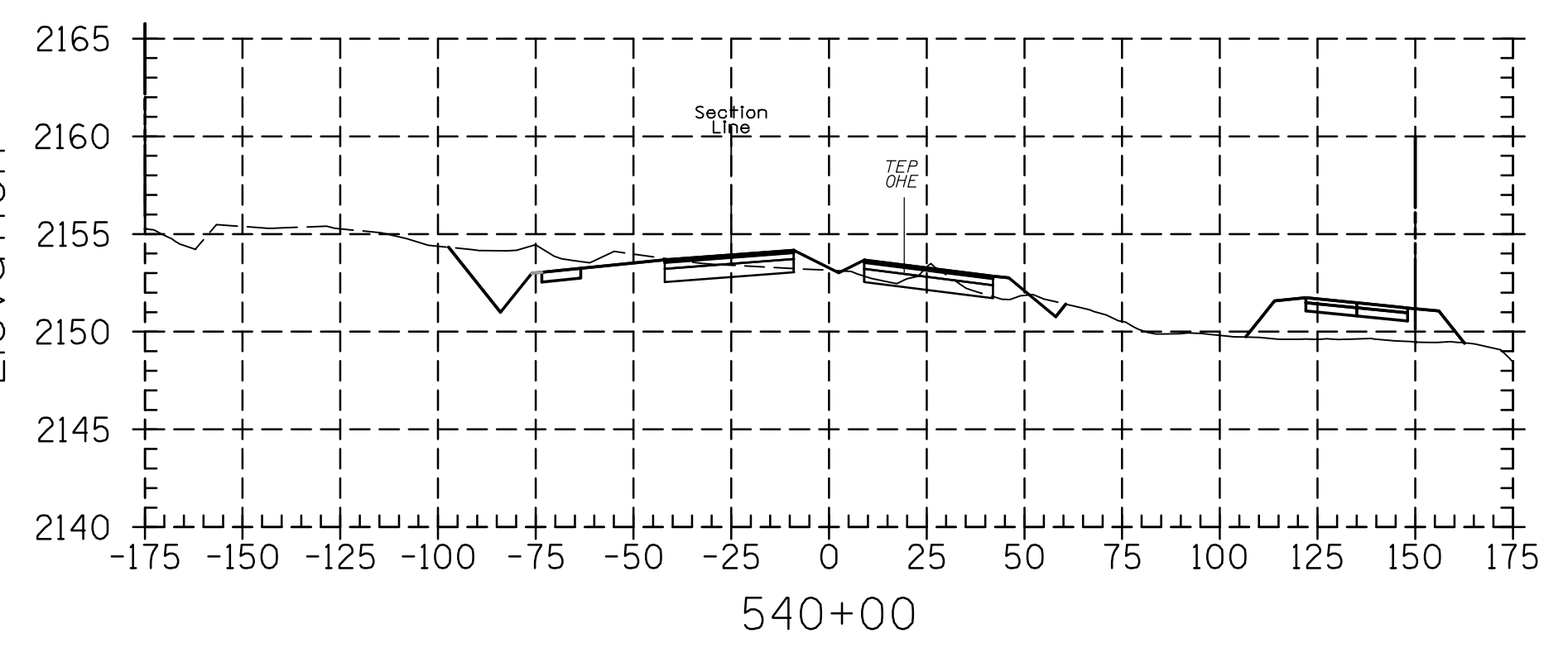
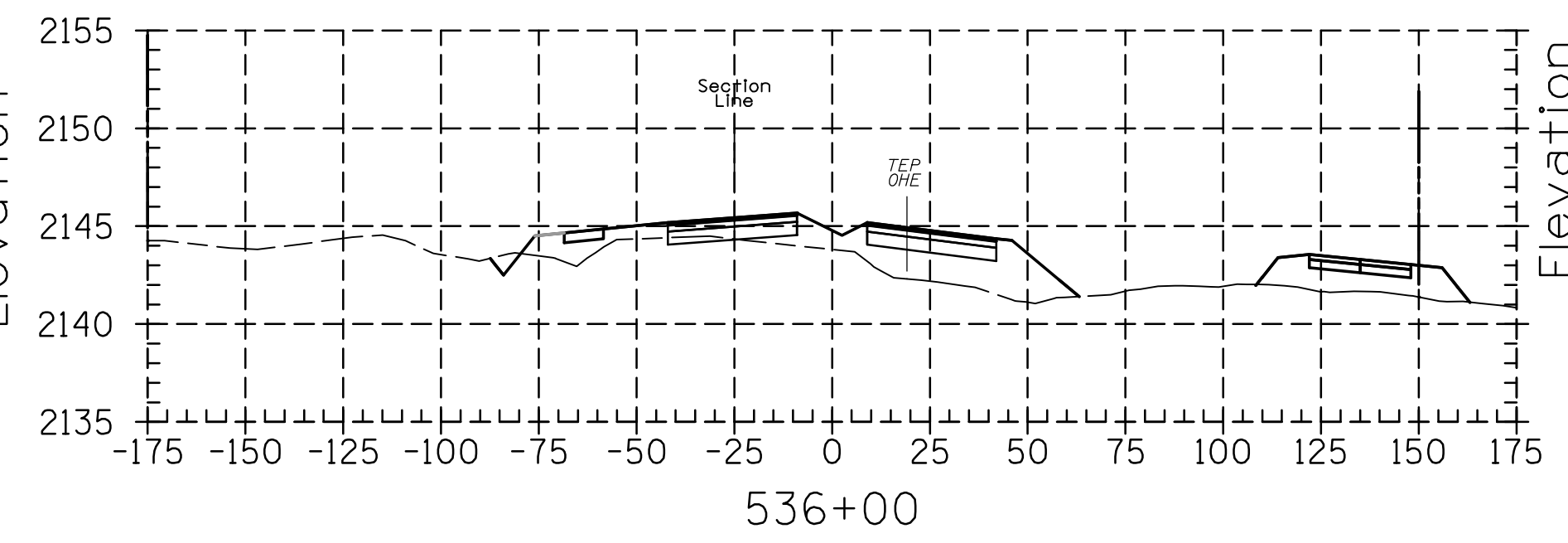
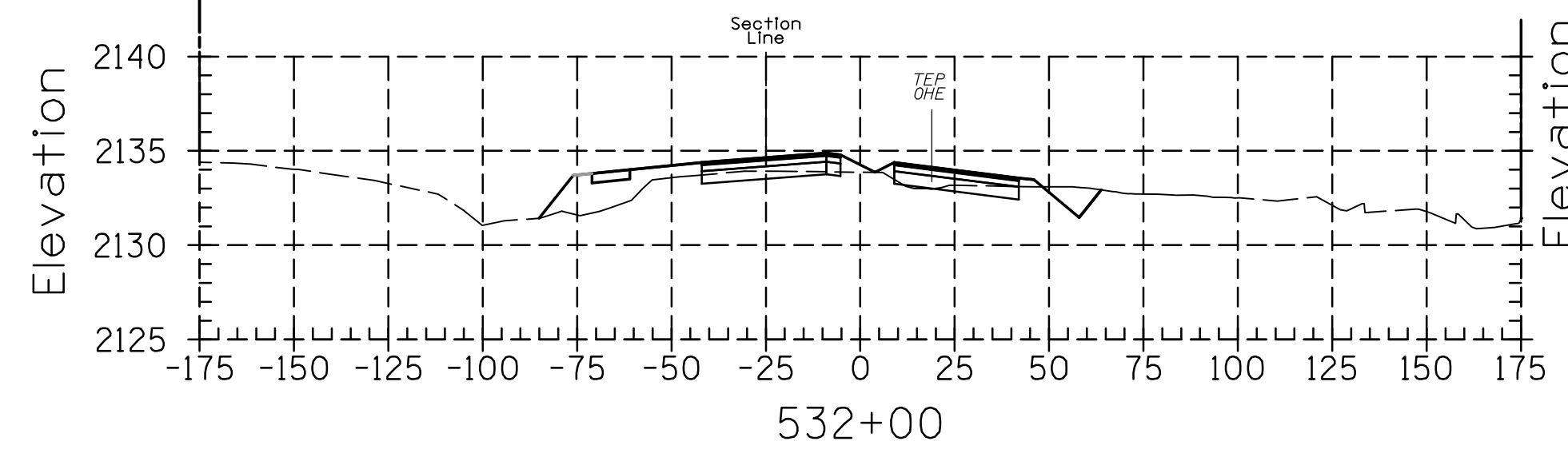
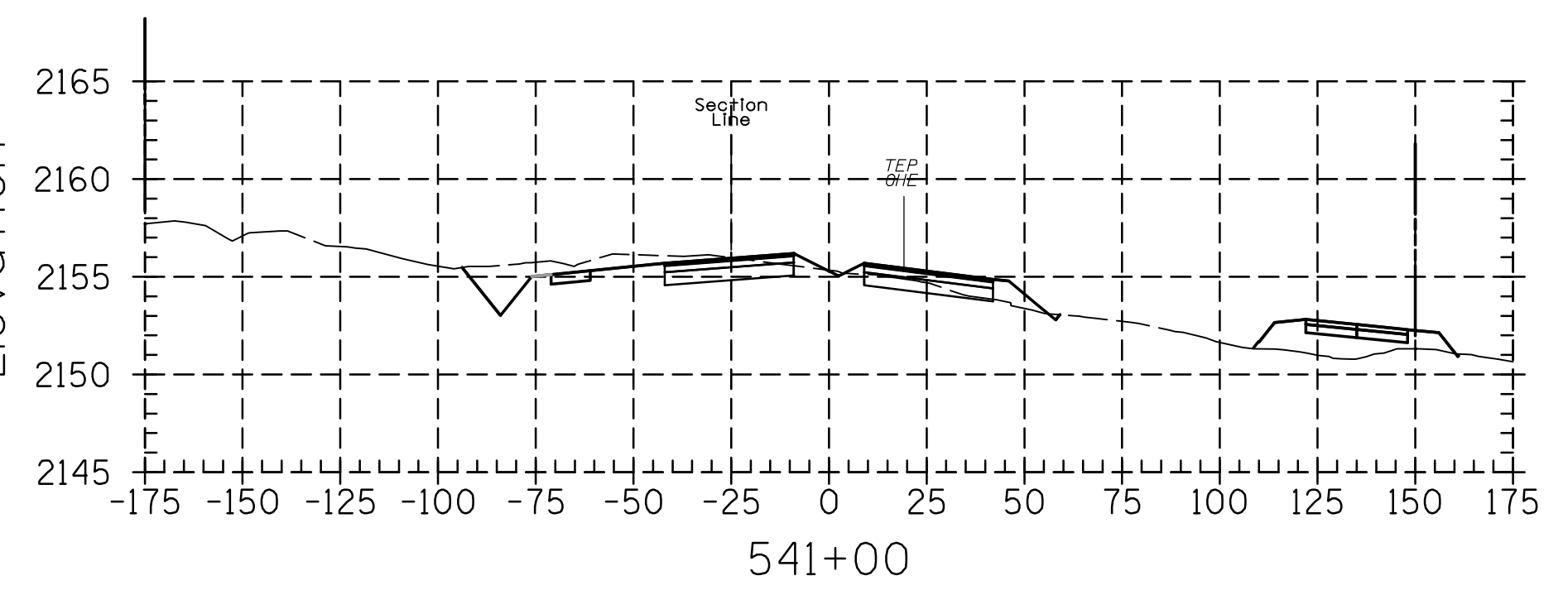
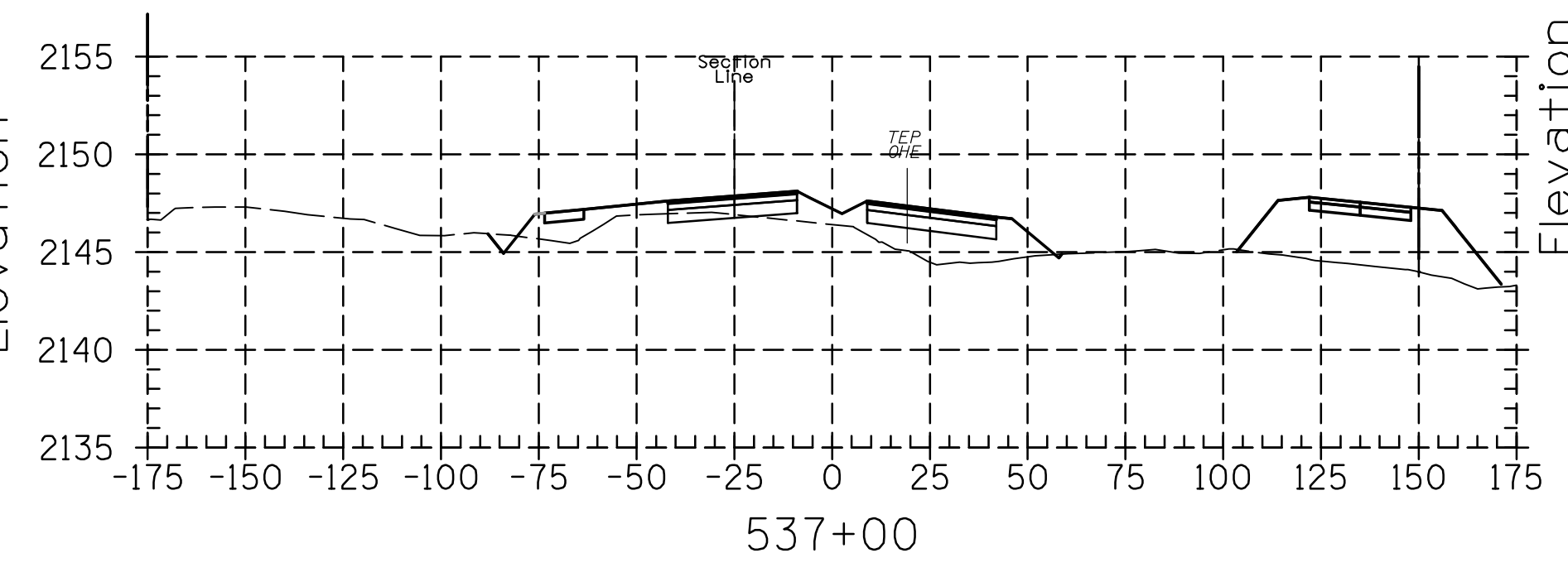
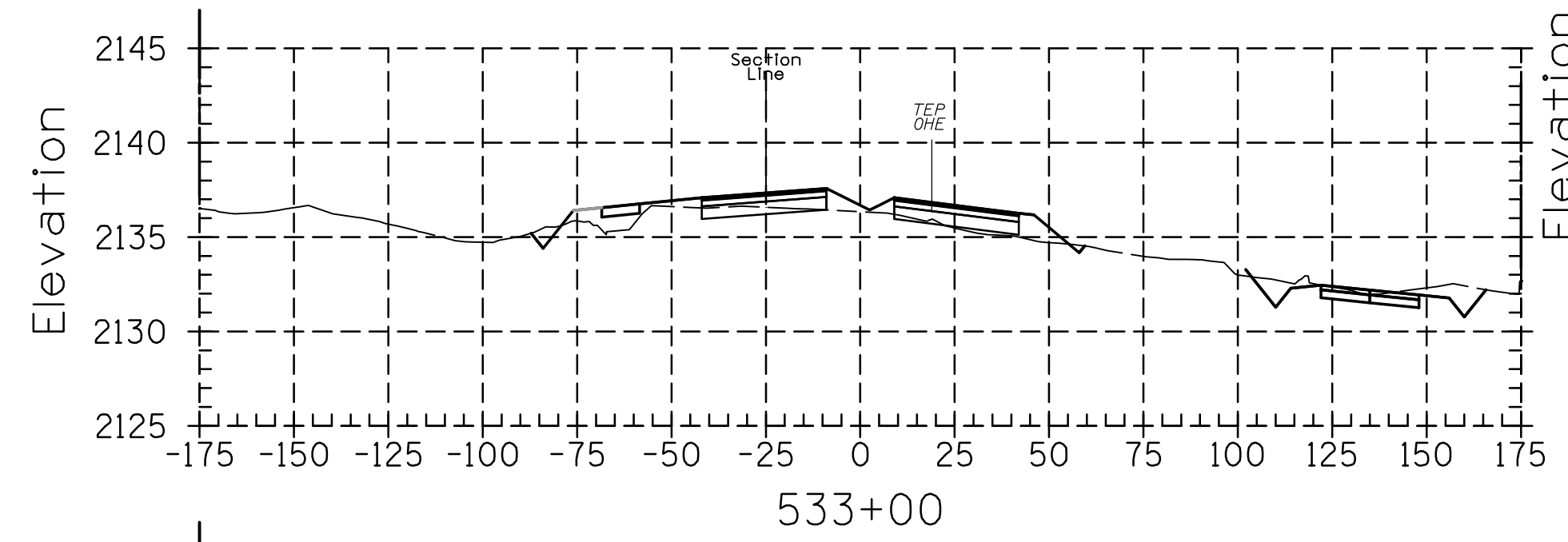
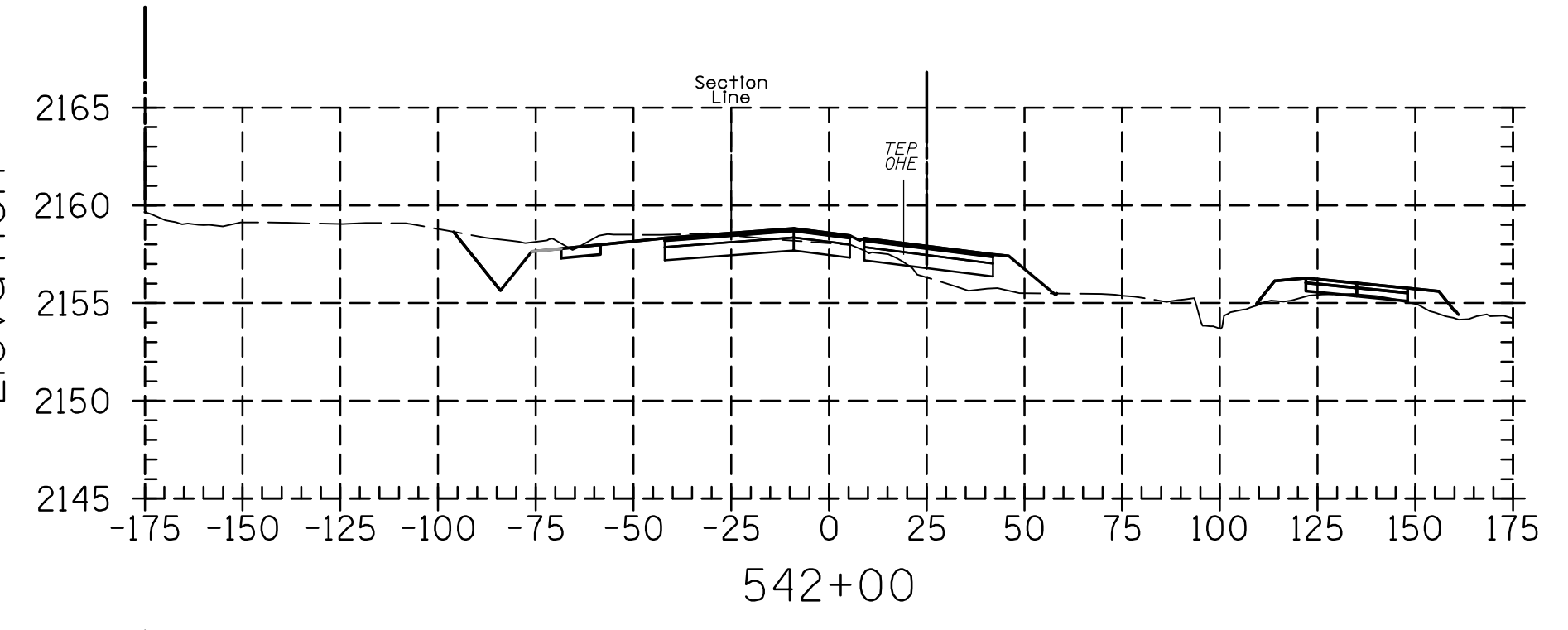
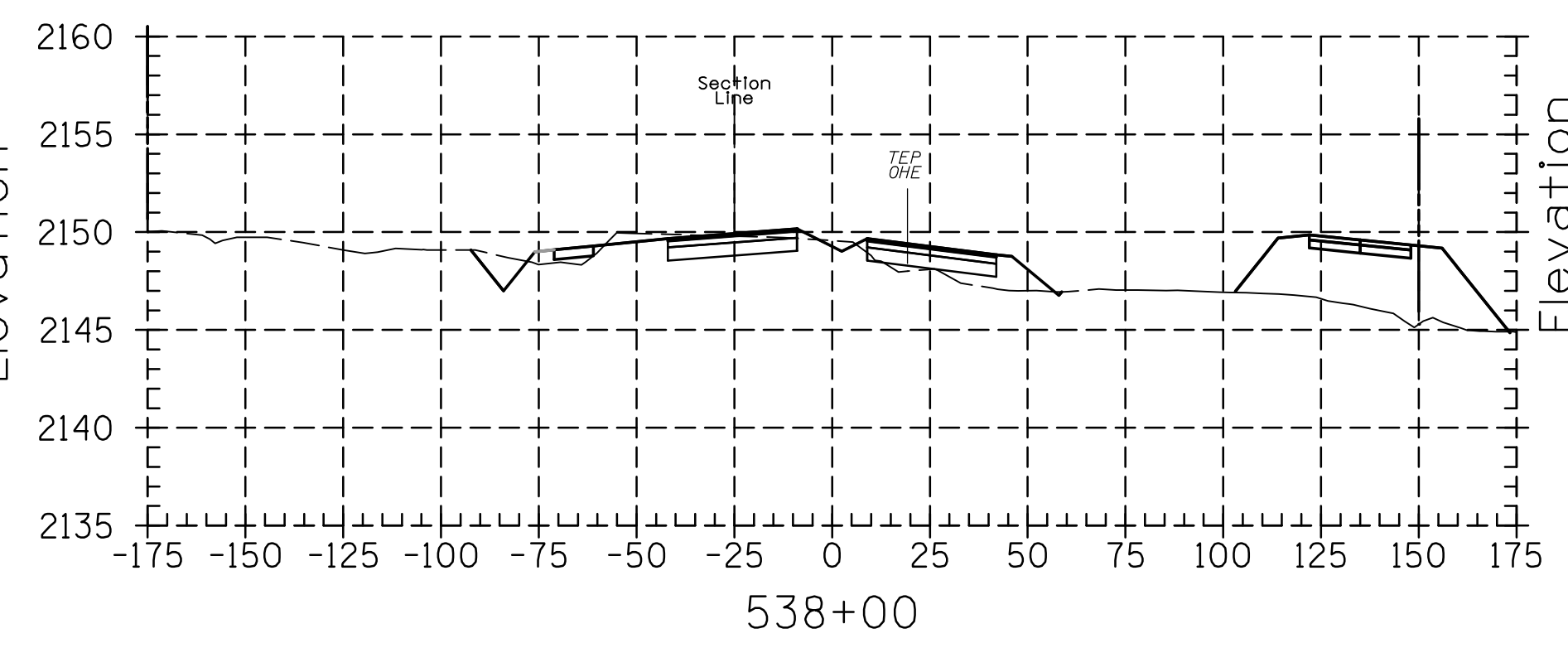
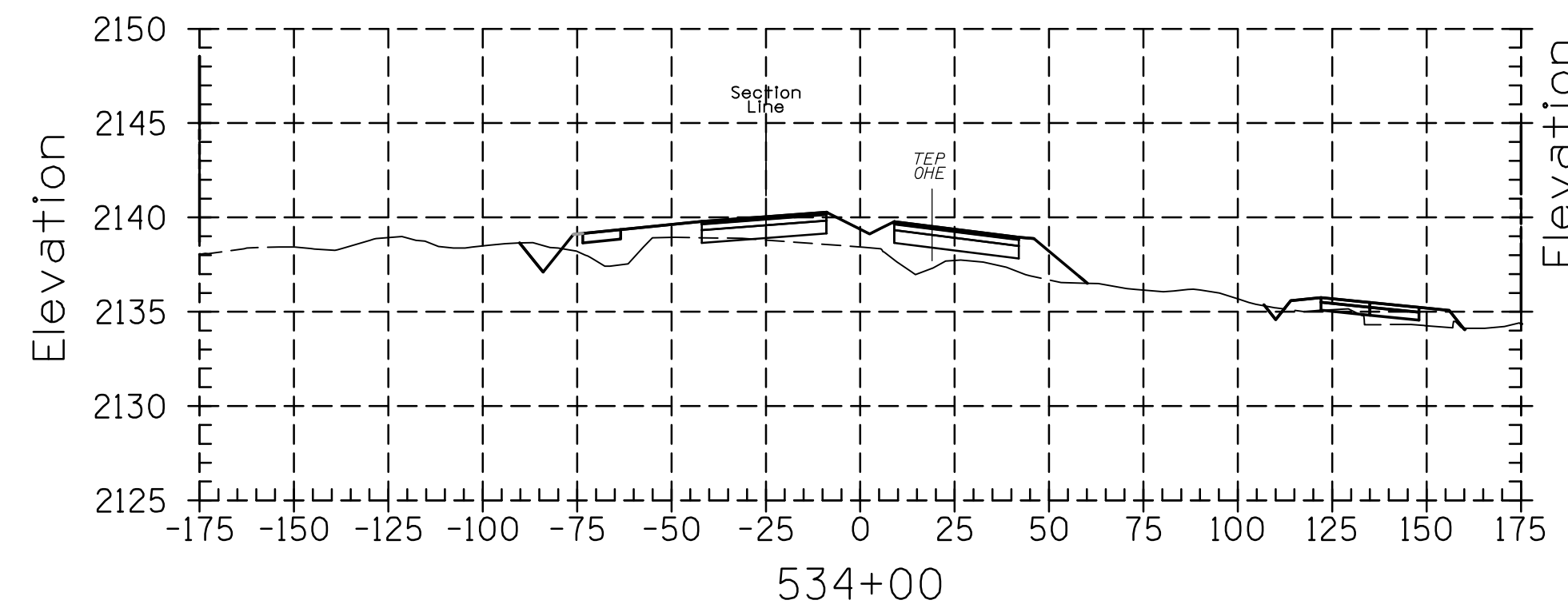
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CZ	12/12
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PROJ. ENG.:	DATE
AA	12/12

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STA 531+00 TO STA 542+00



SCALES: HORIZ. 1"=40'
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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

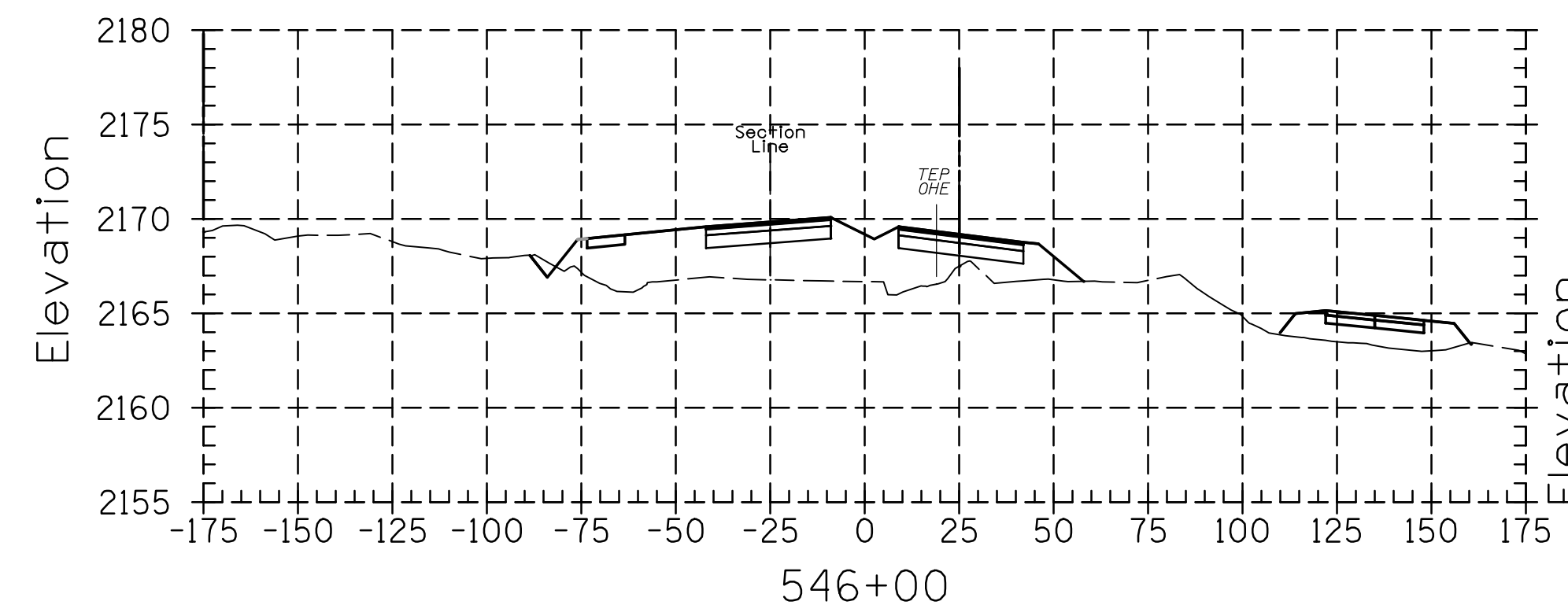
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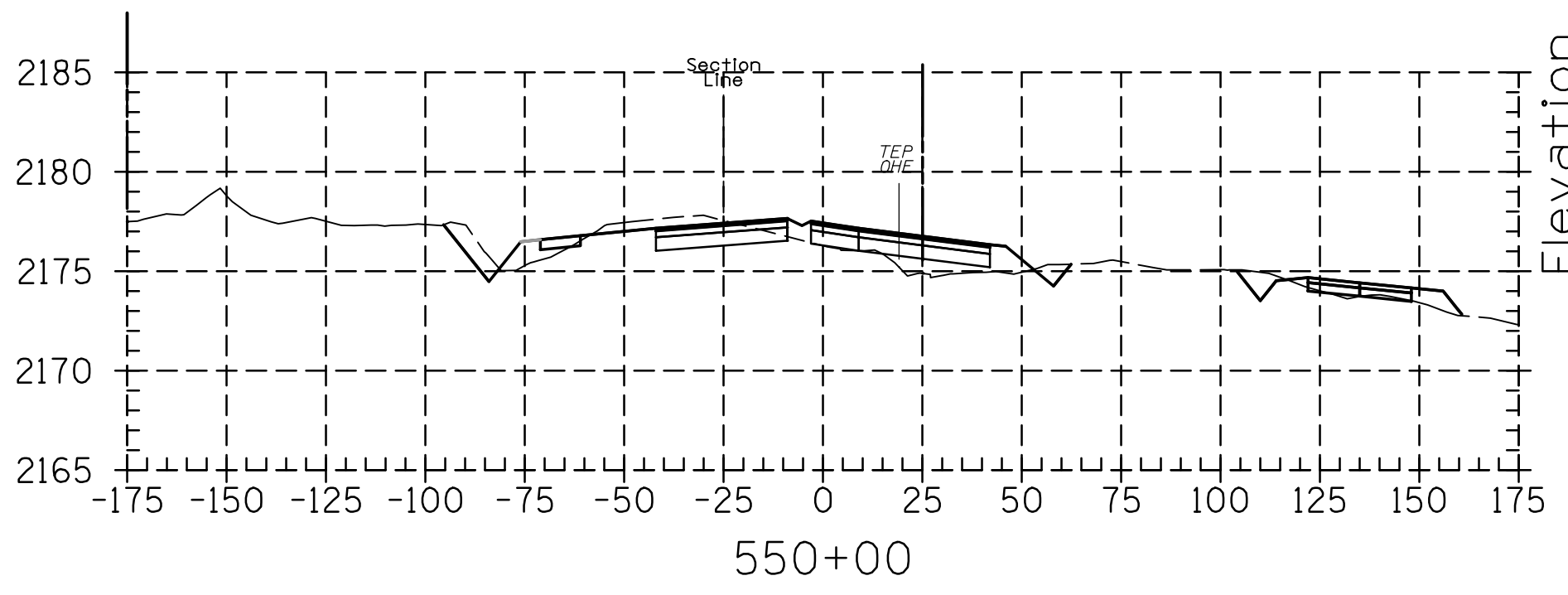
TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
 STA 531+00 TO 542+00
 TANGERINE ROAD

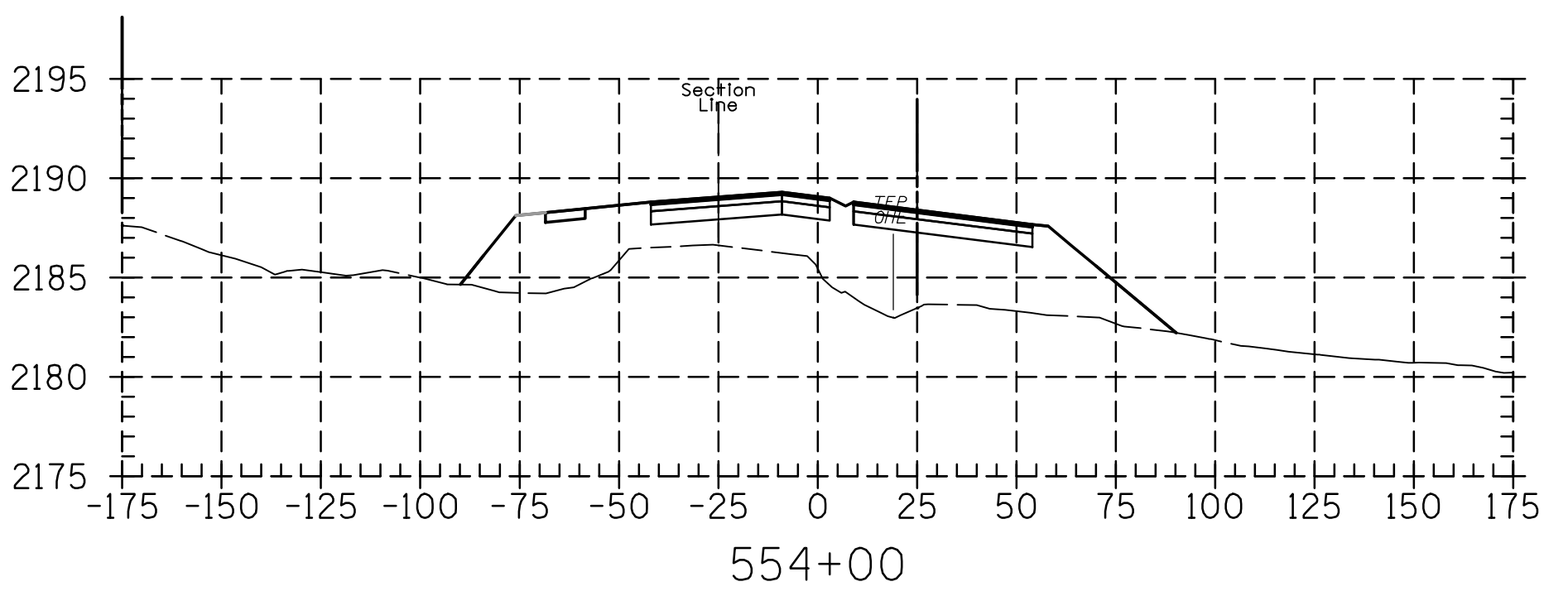
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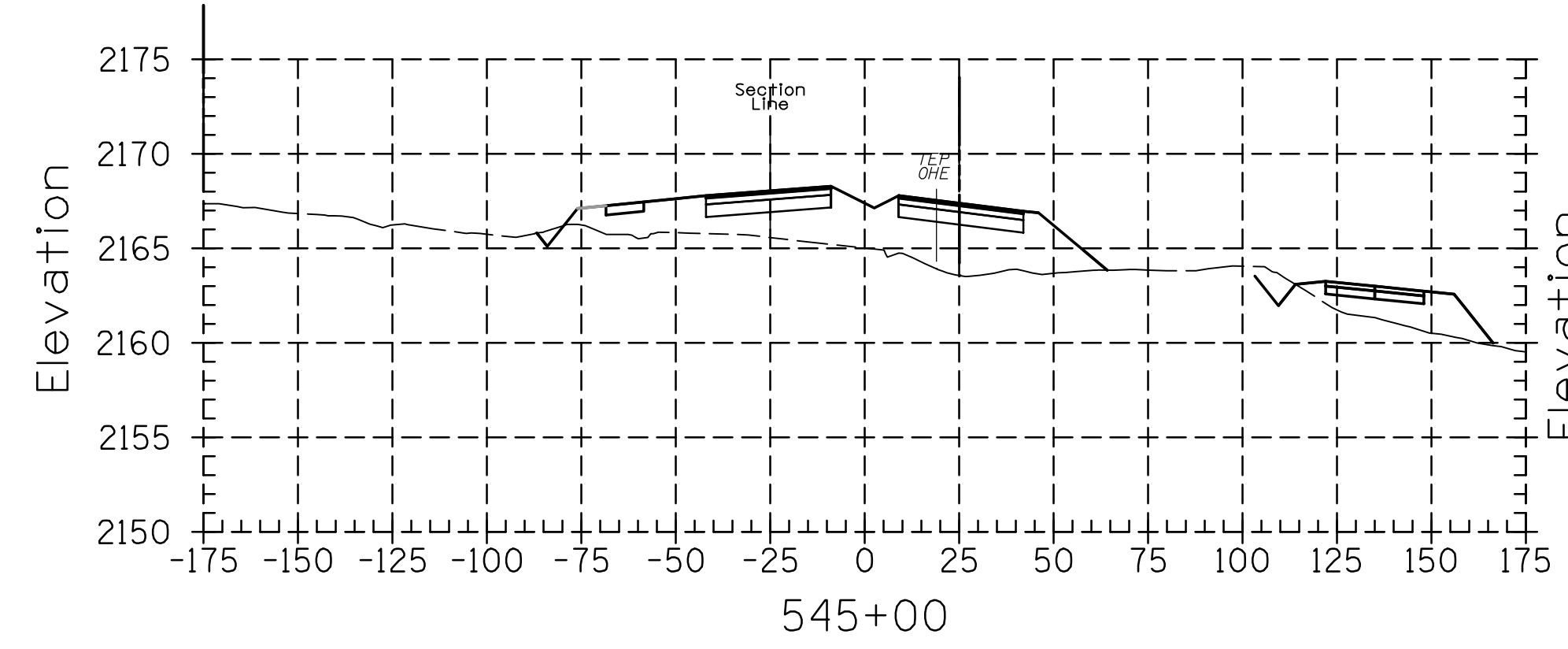
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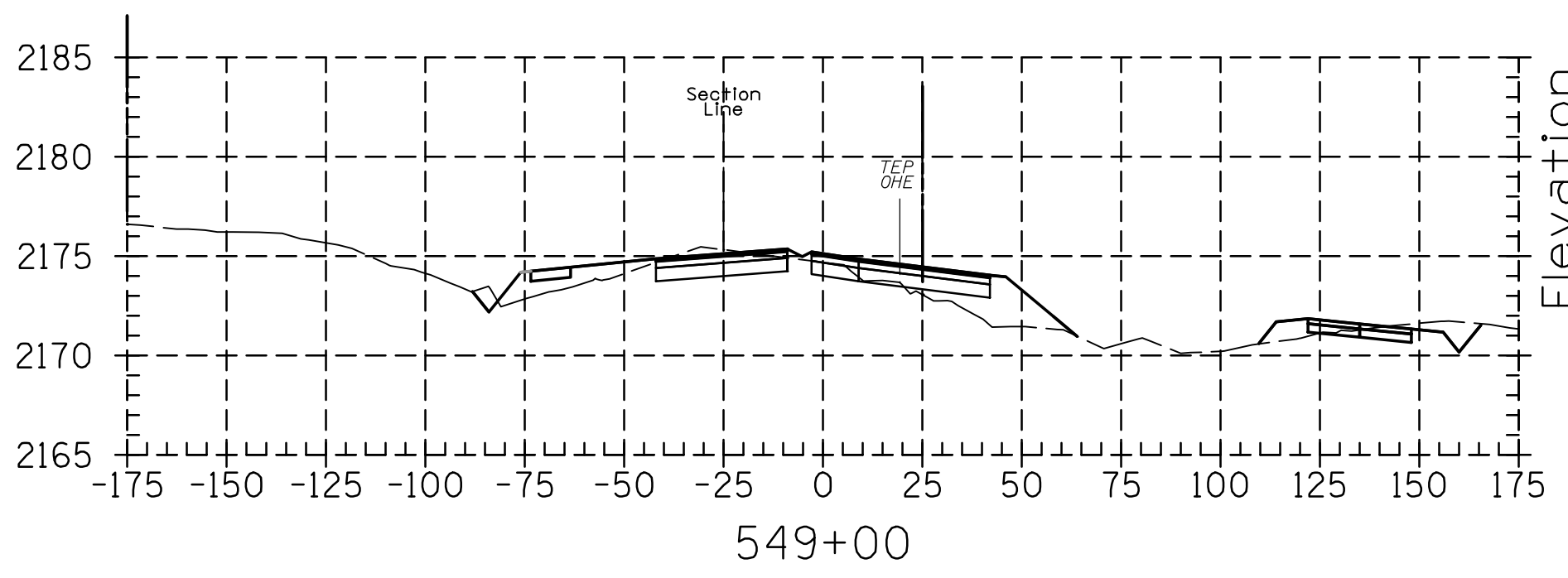
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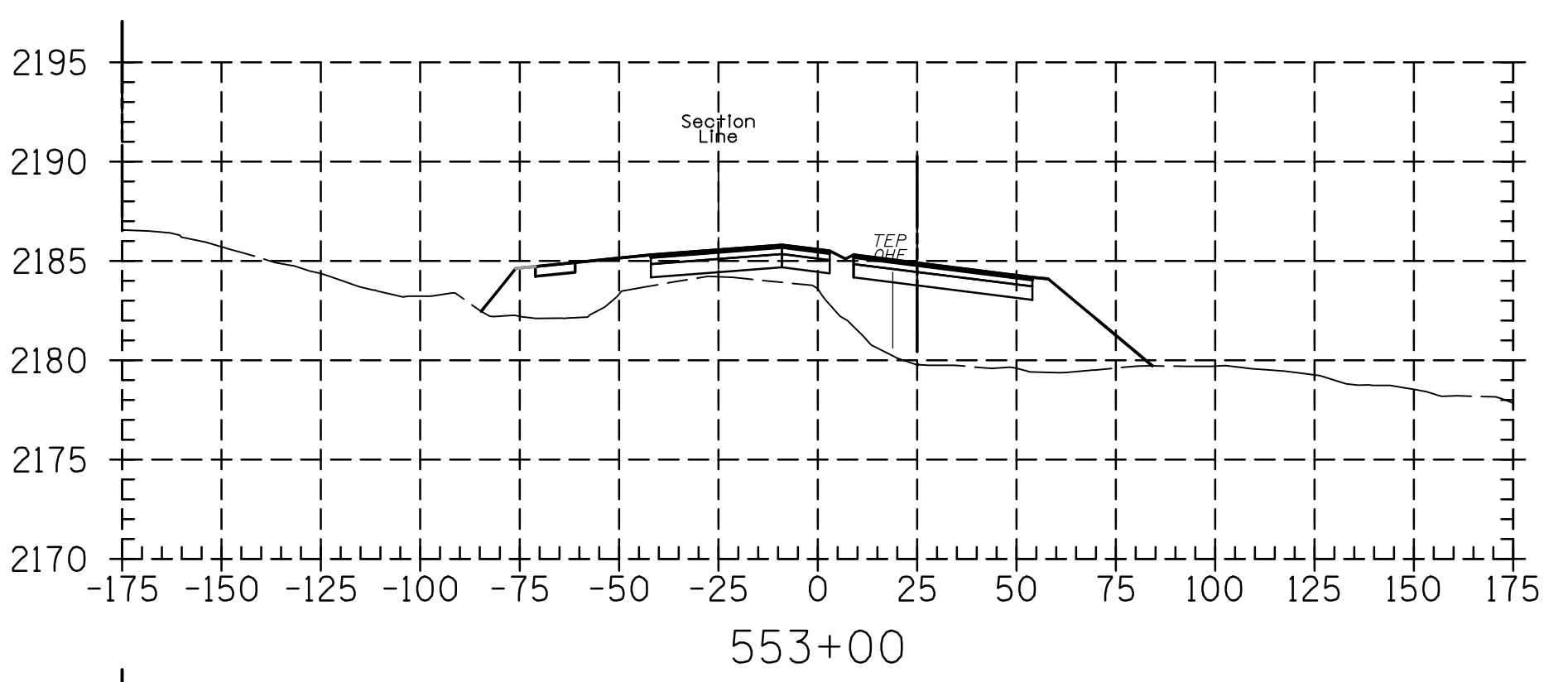
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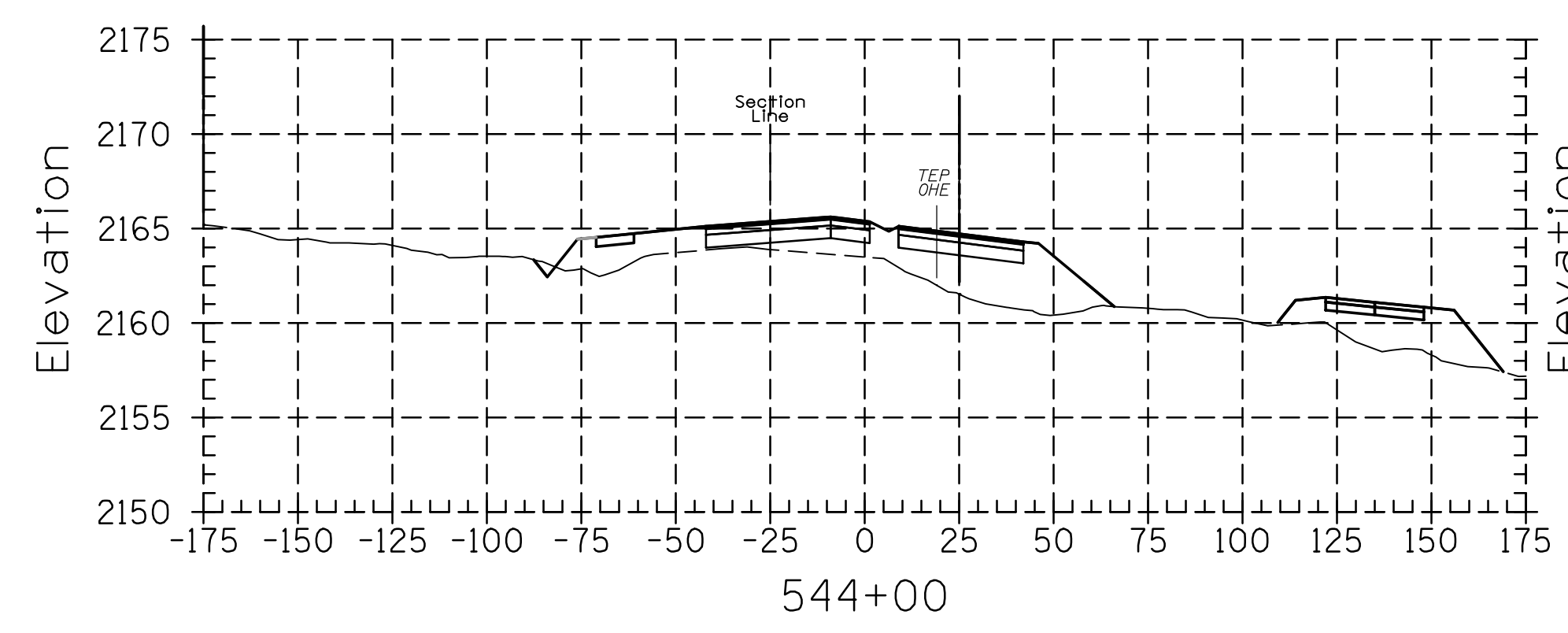
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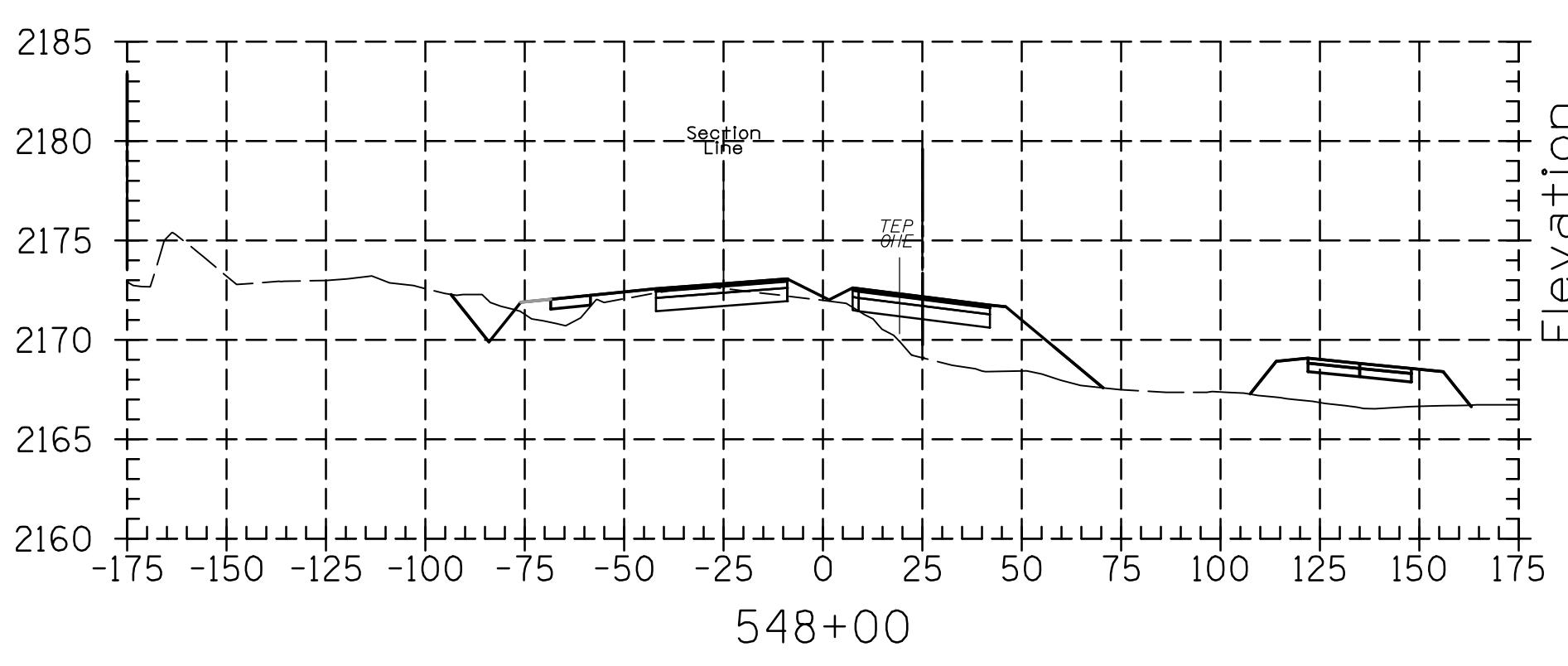
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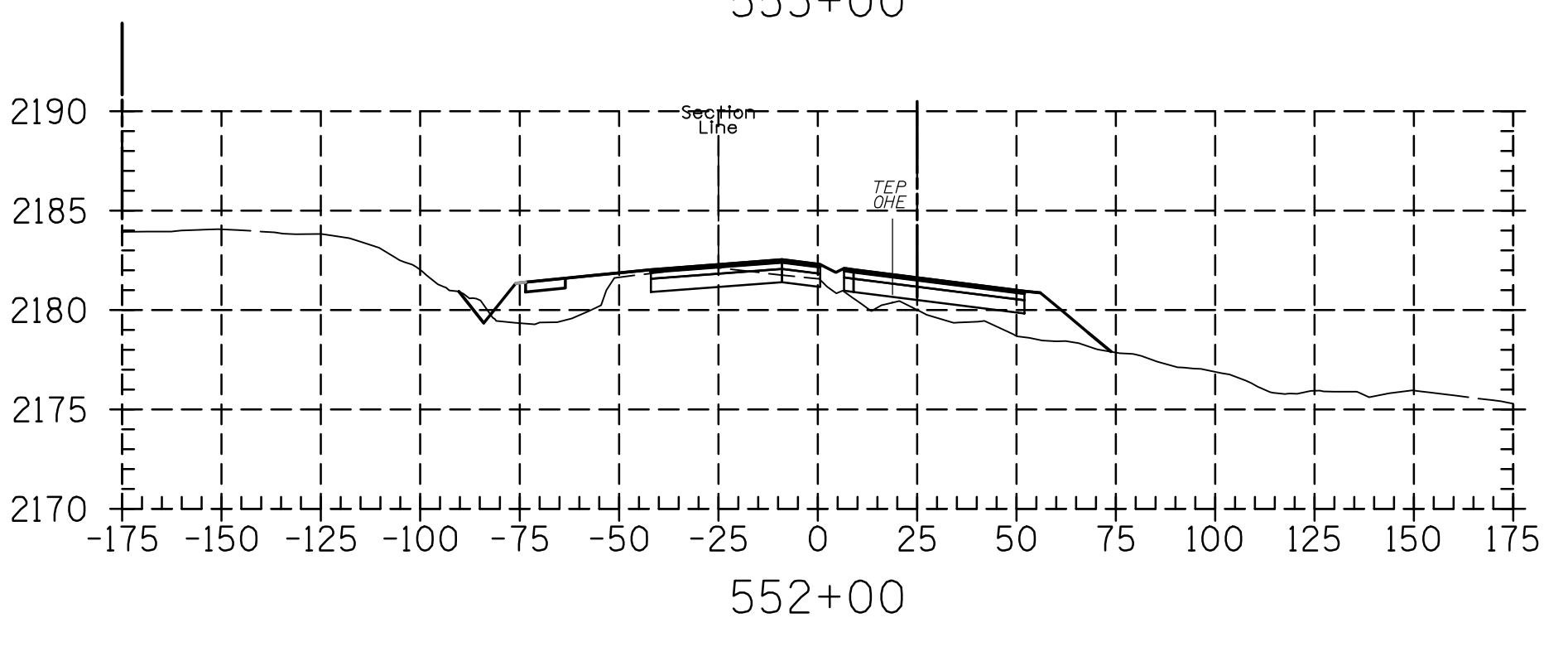
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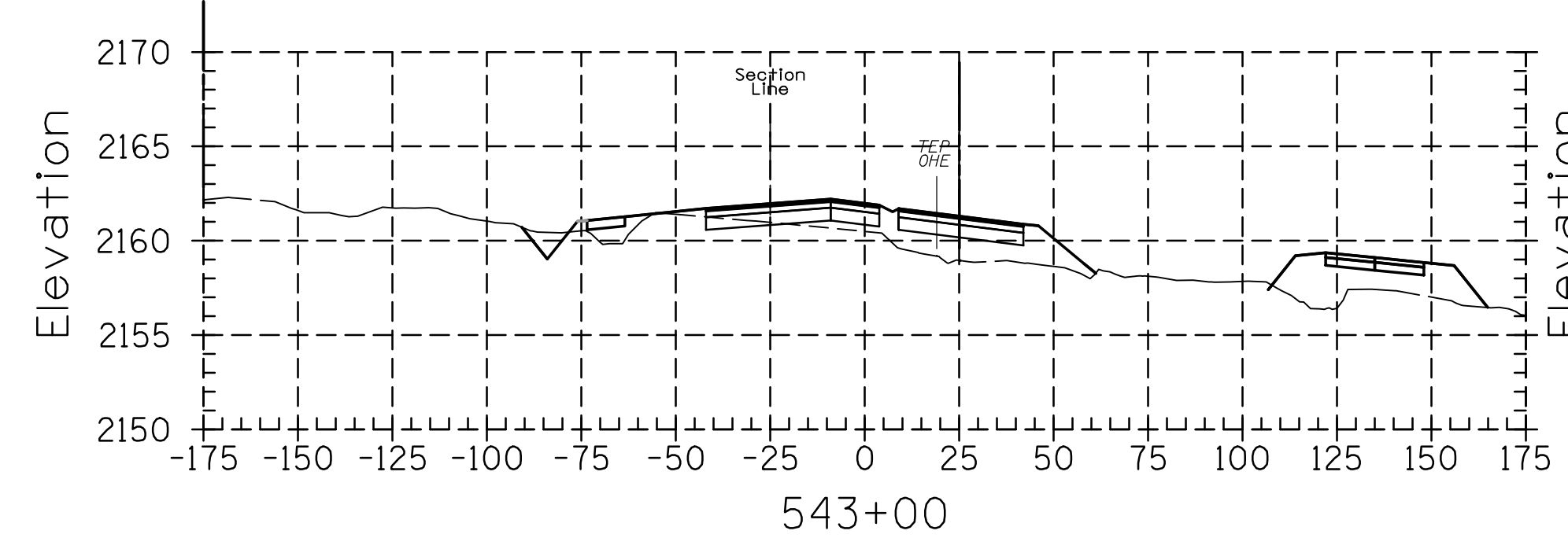
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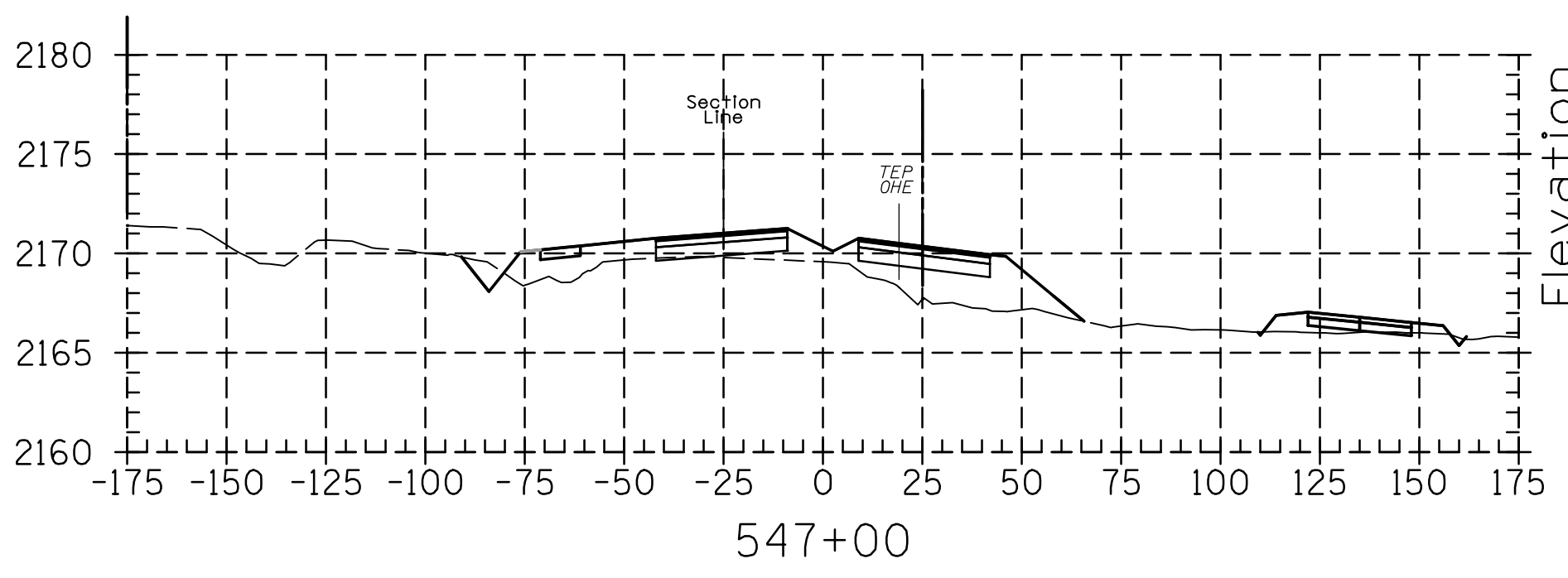
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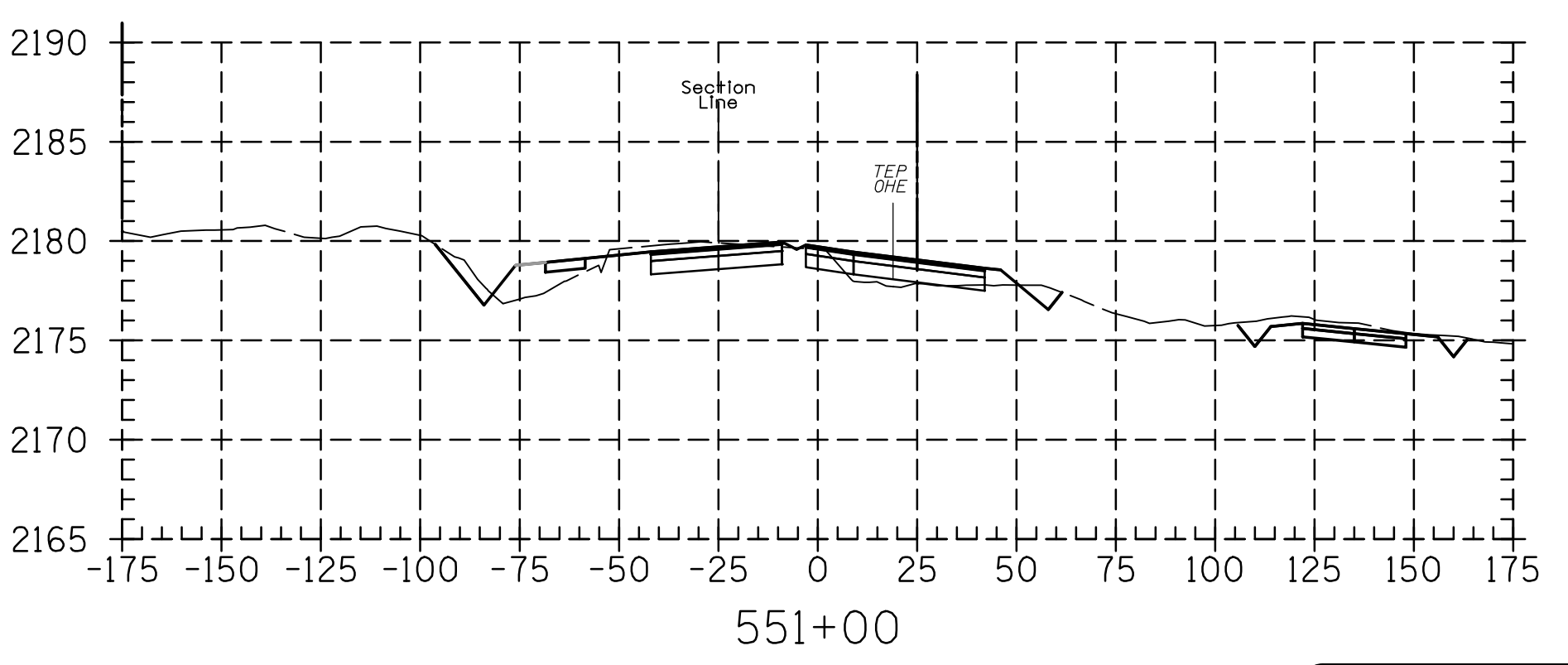
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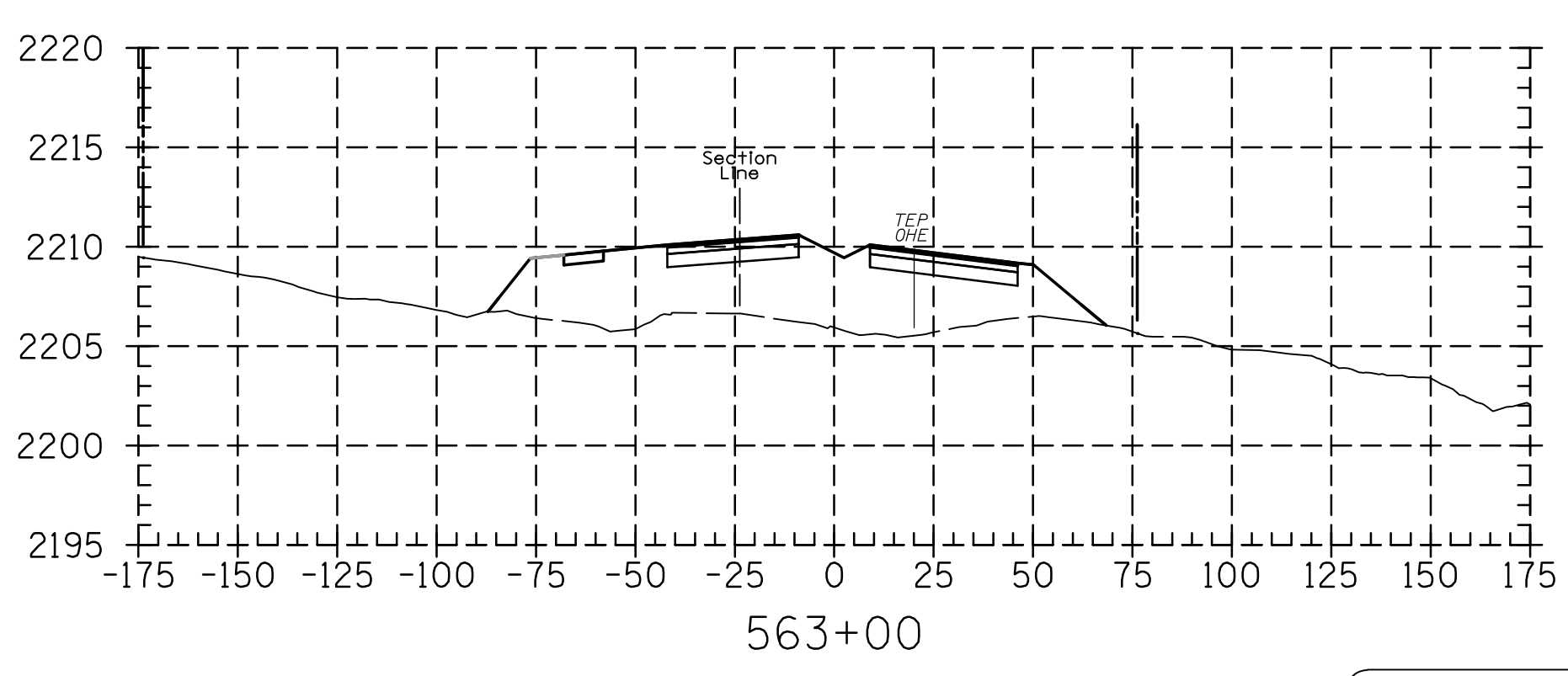
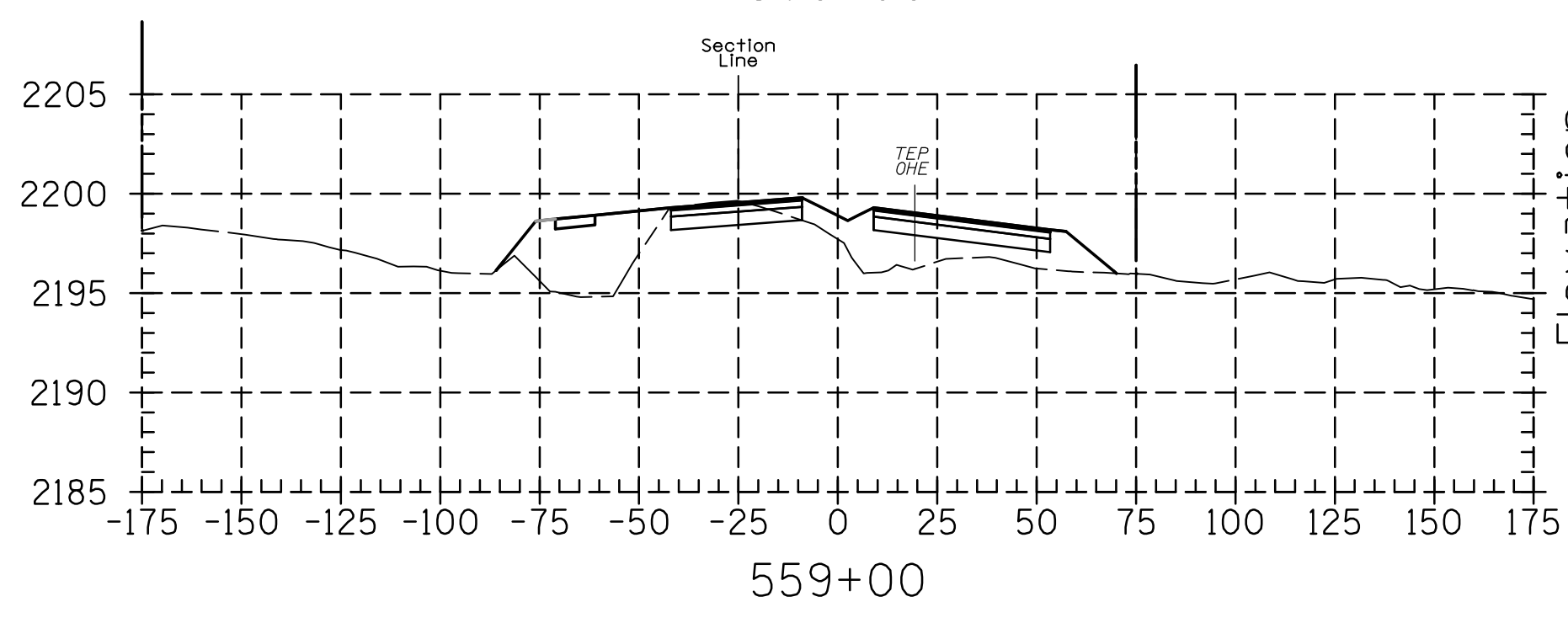
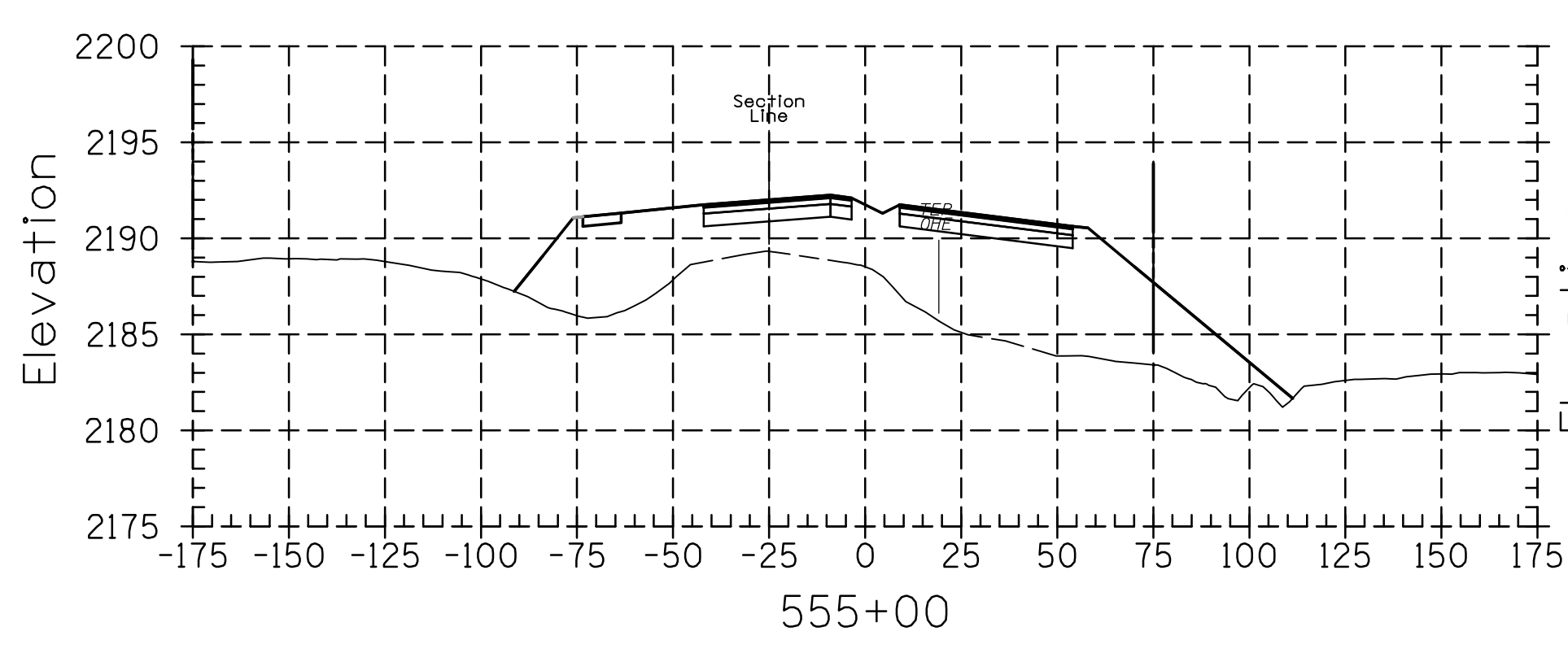
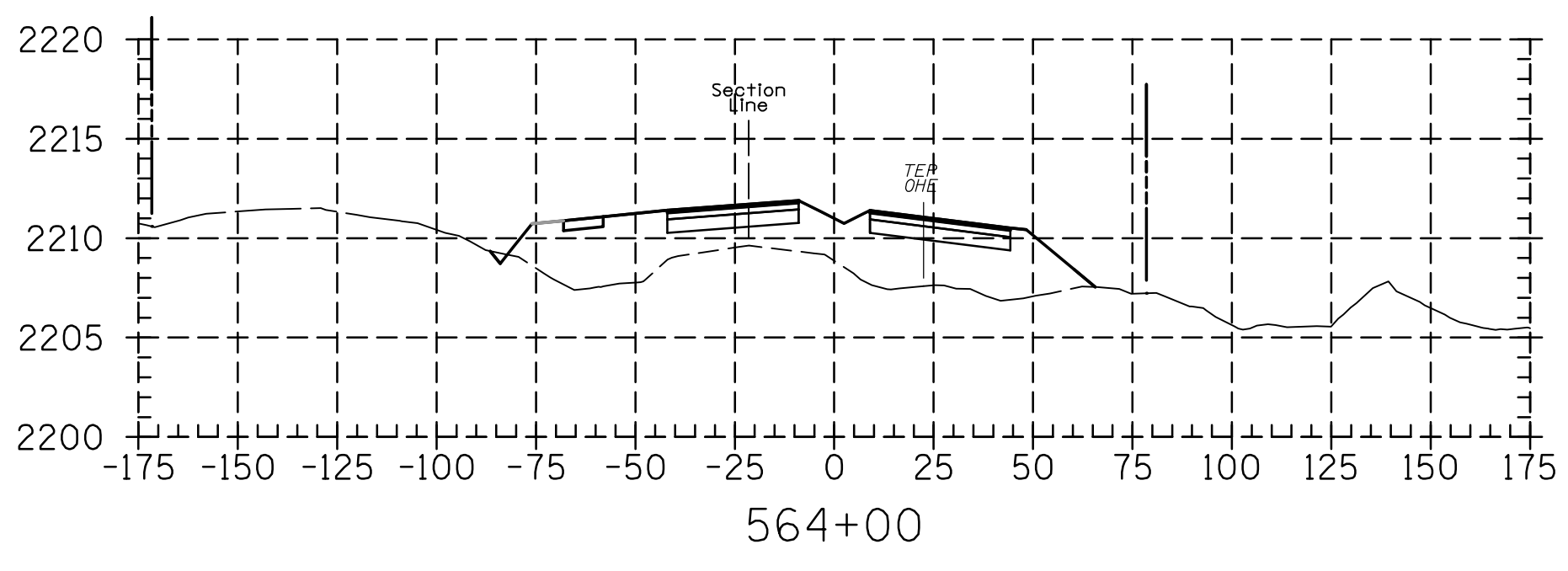
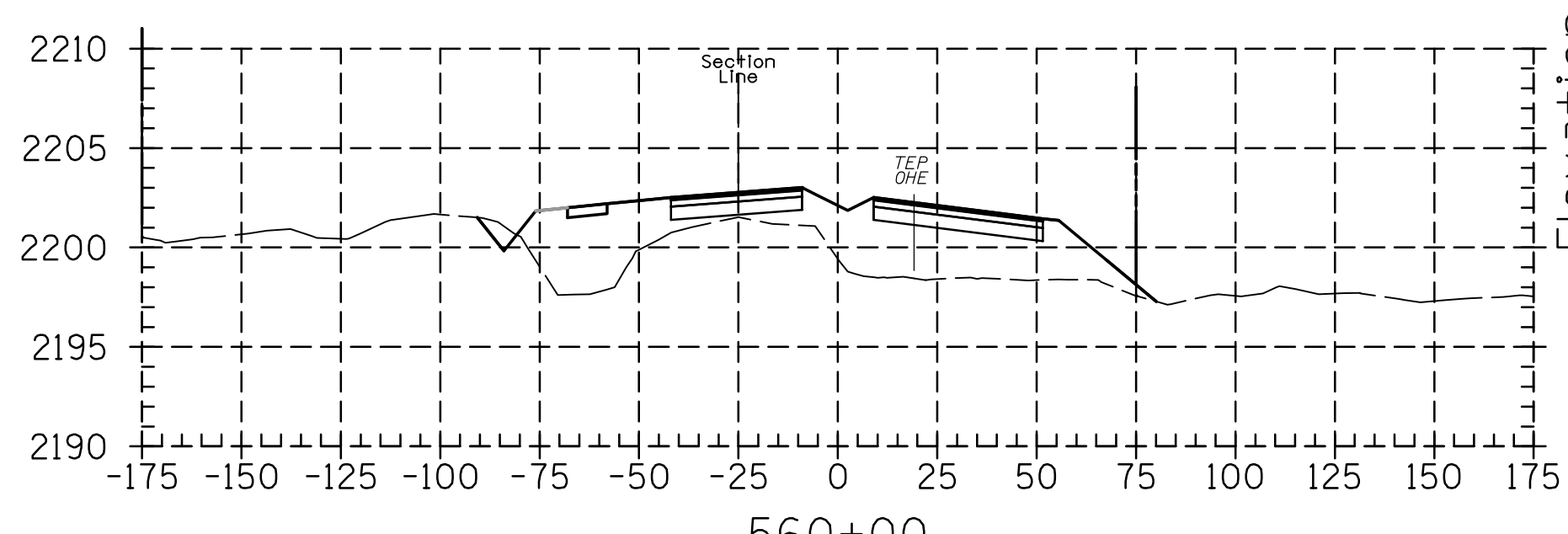
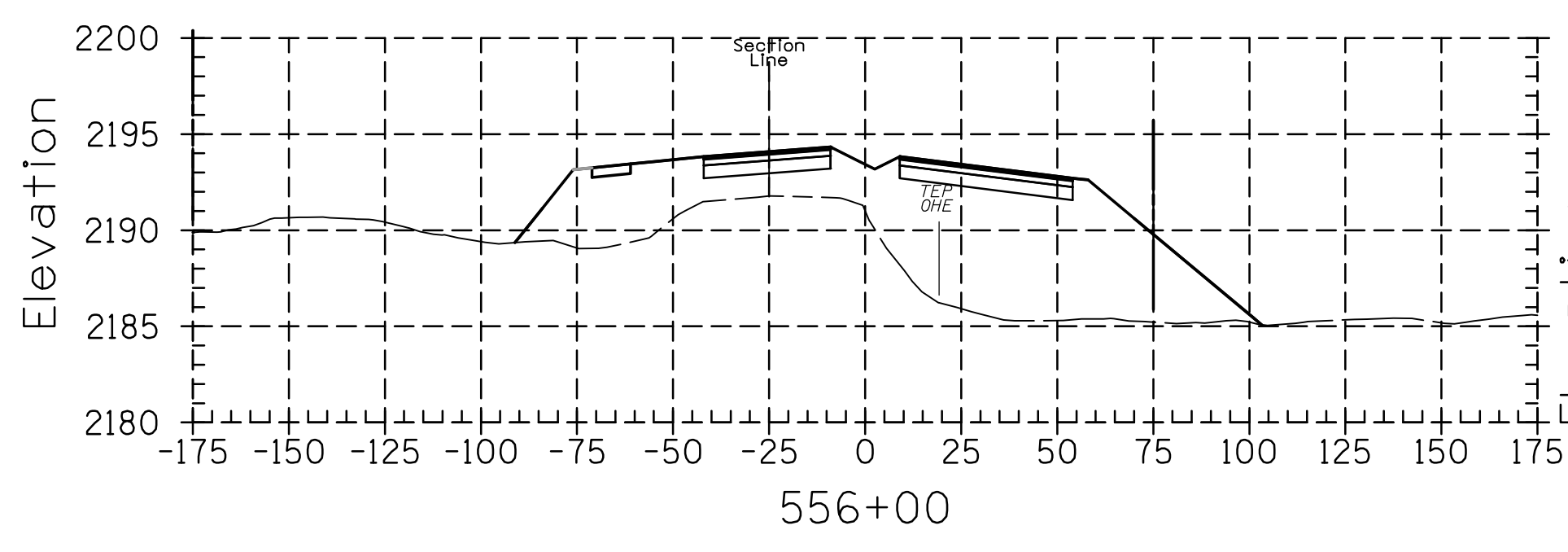
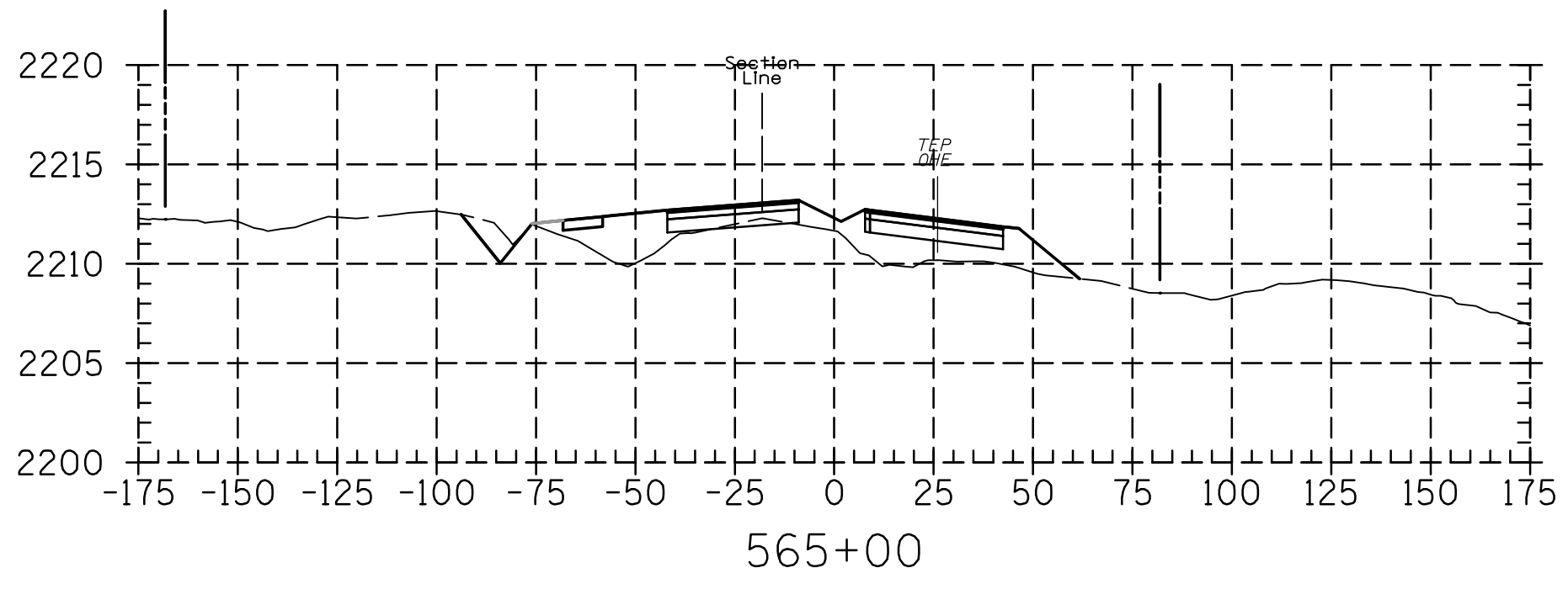
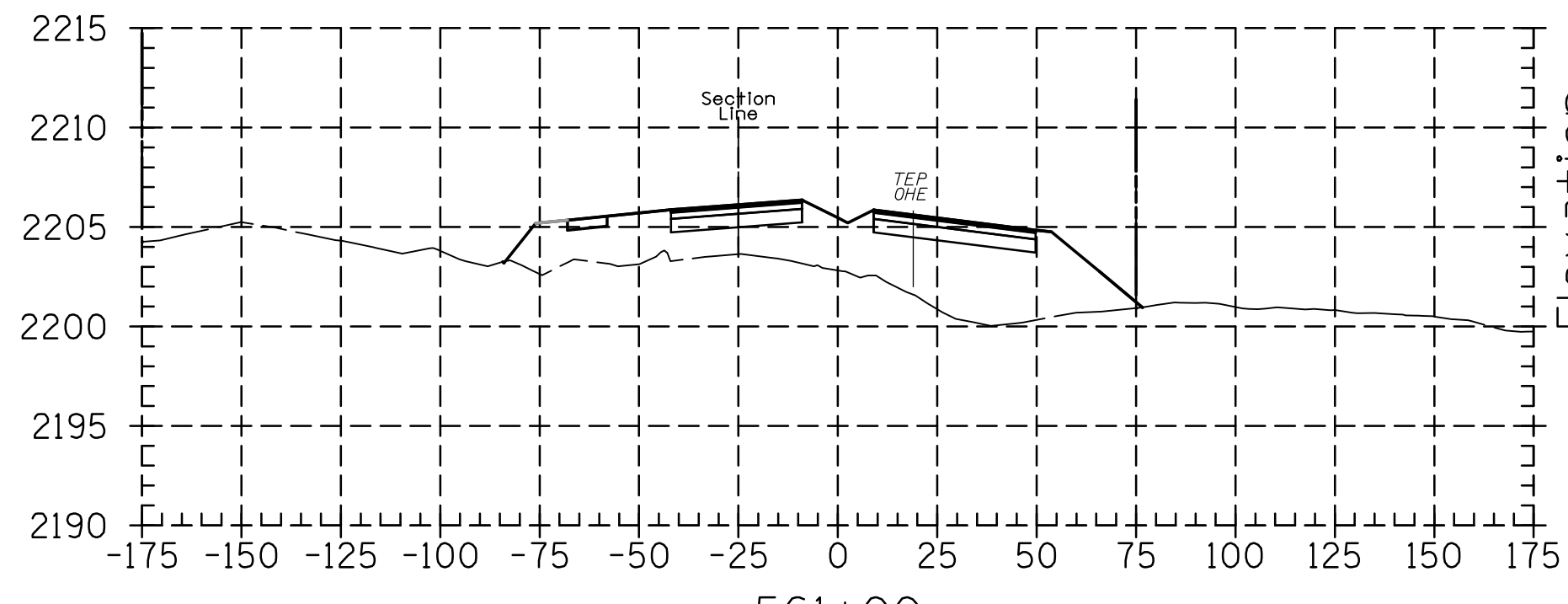
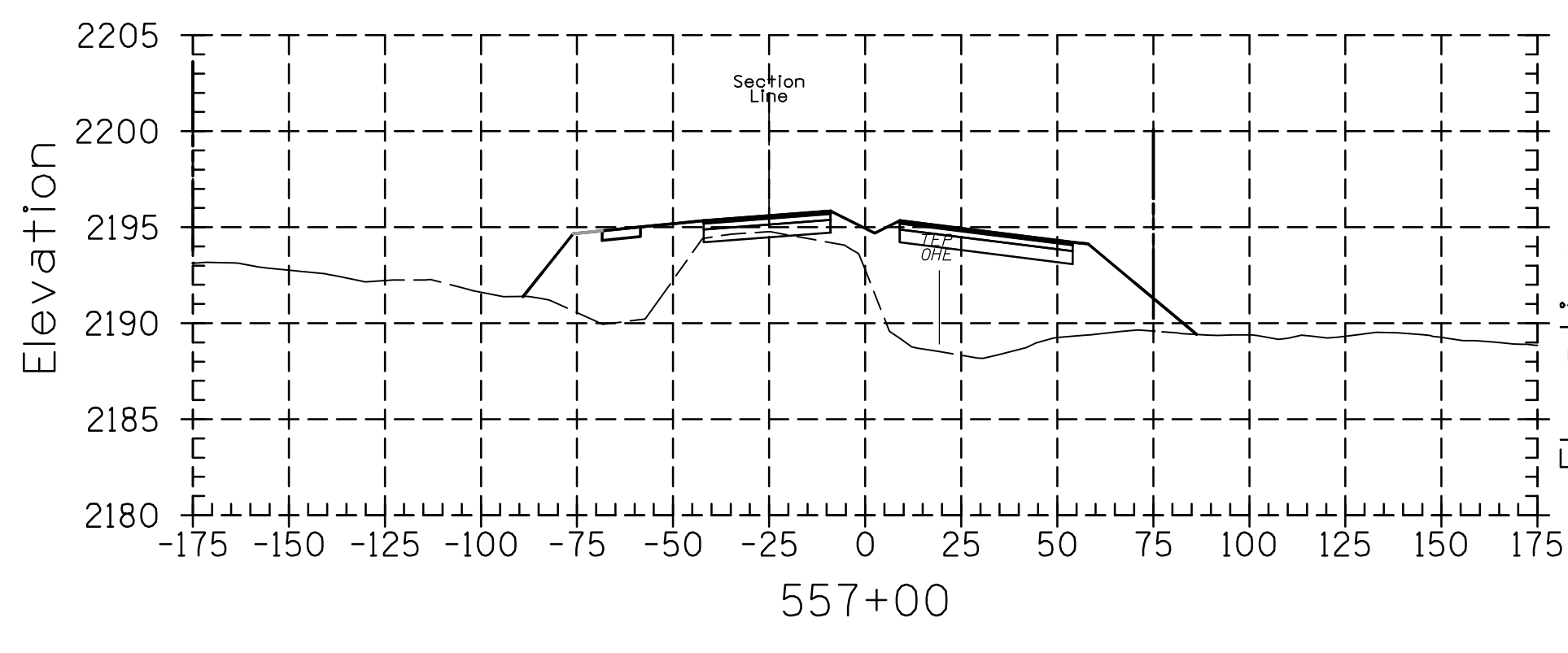
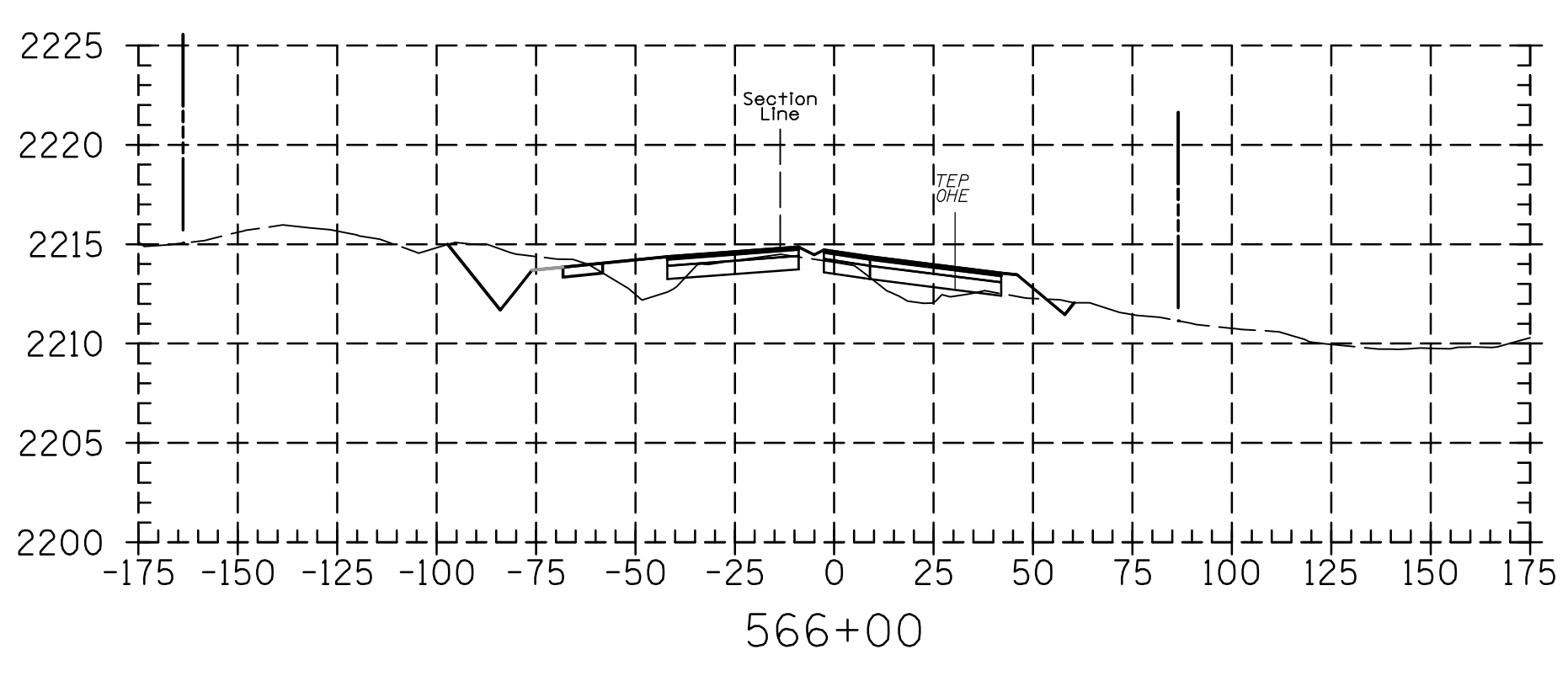
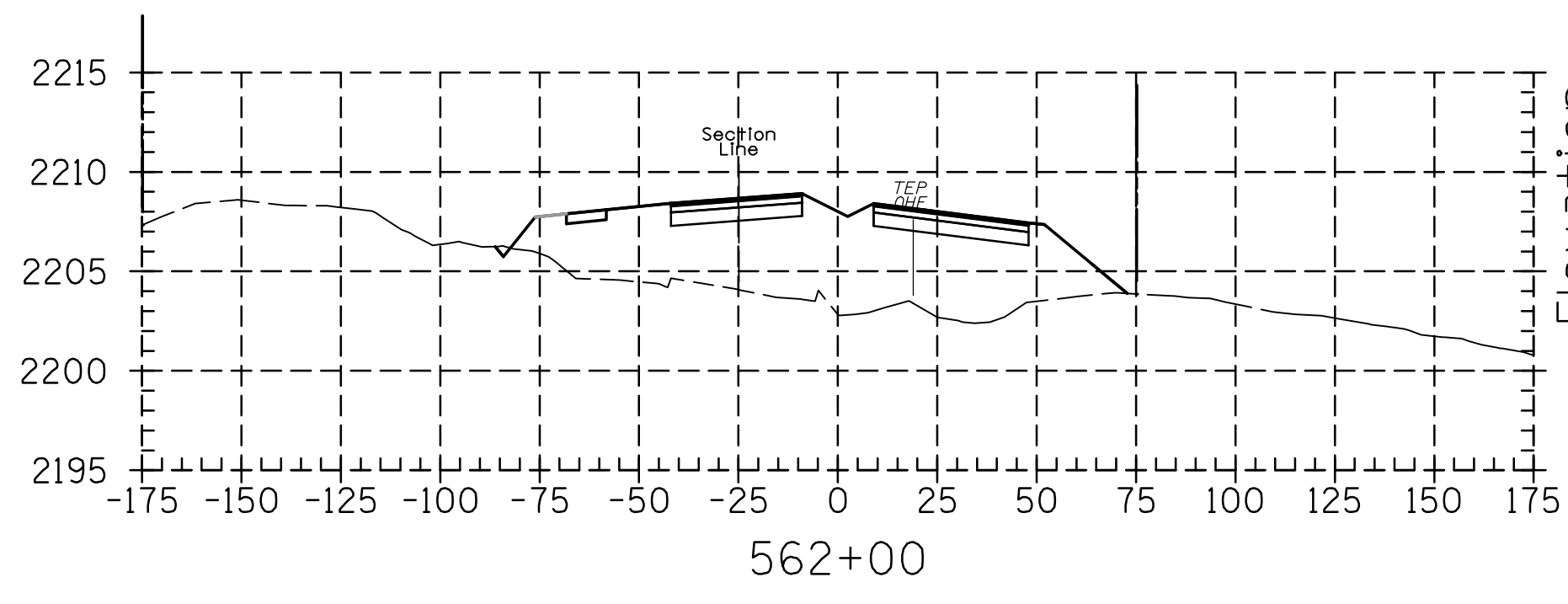
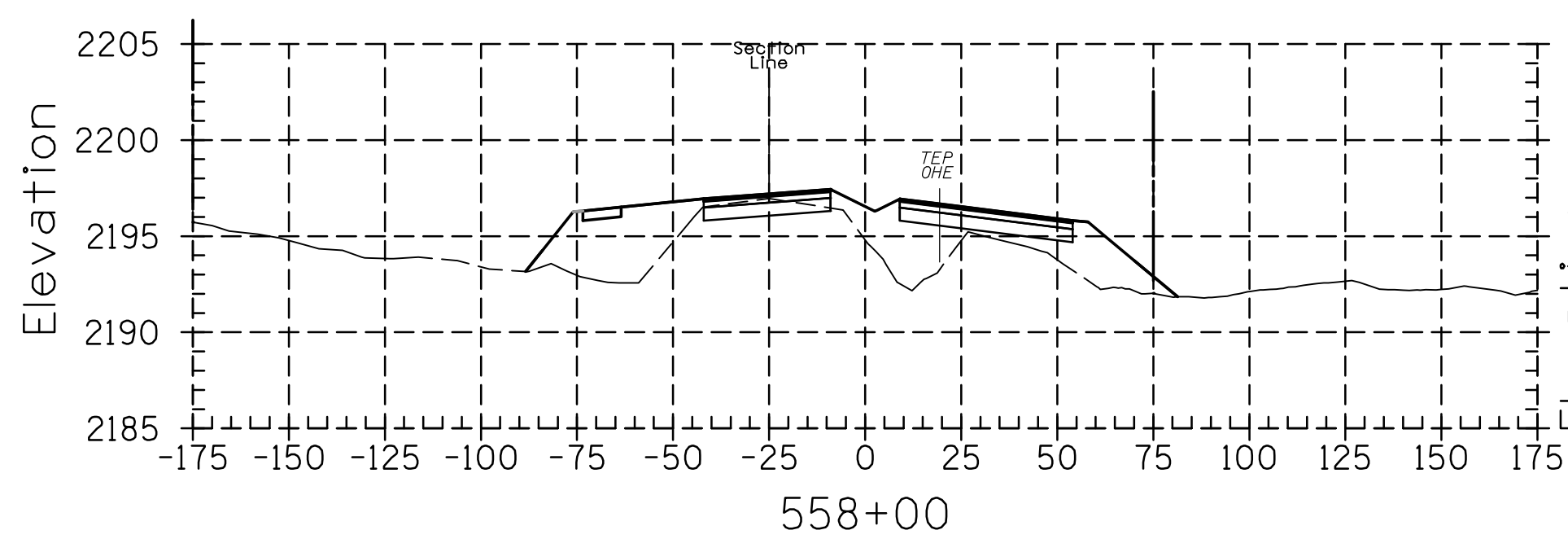
STA 543+00 TO STA 554+00



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AA	12/12
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STA 555+00 TO STA 566+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS10 OF XS31

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	DRAWN: CZ	12/12
	CHECKED: AA	12/12
	PROJ. ENG.: AA	12/12

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

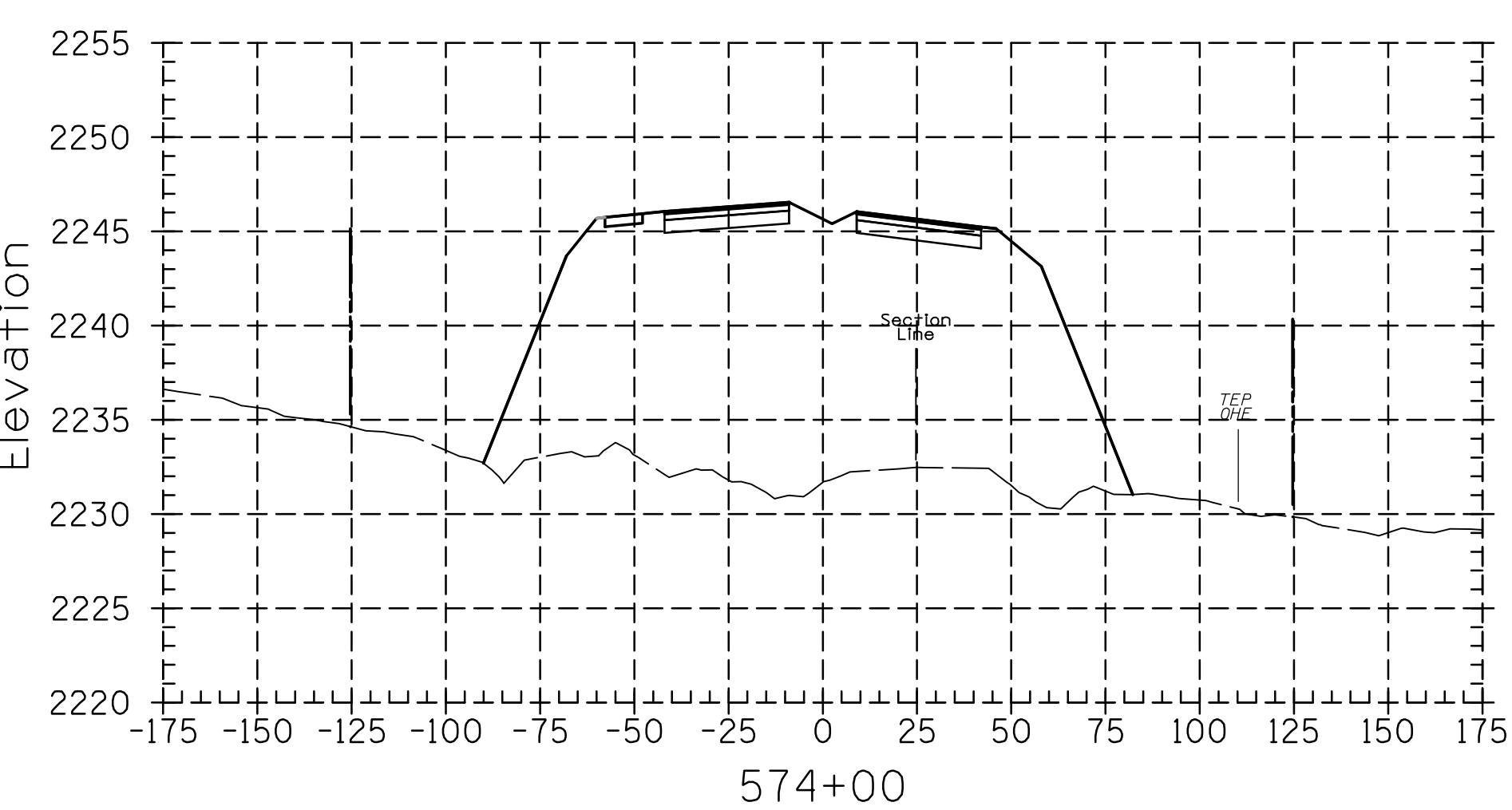
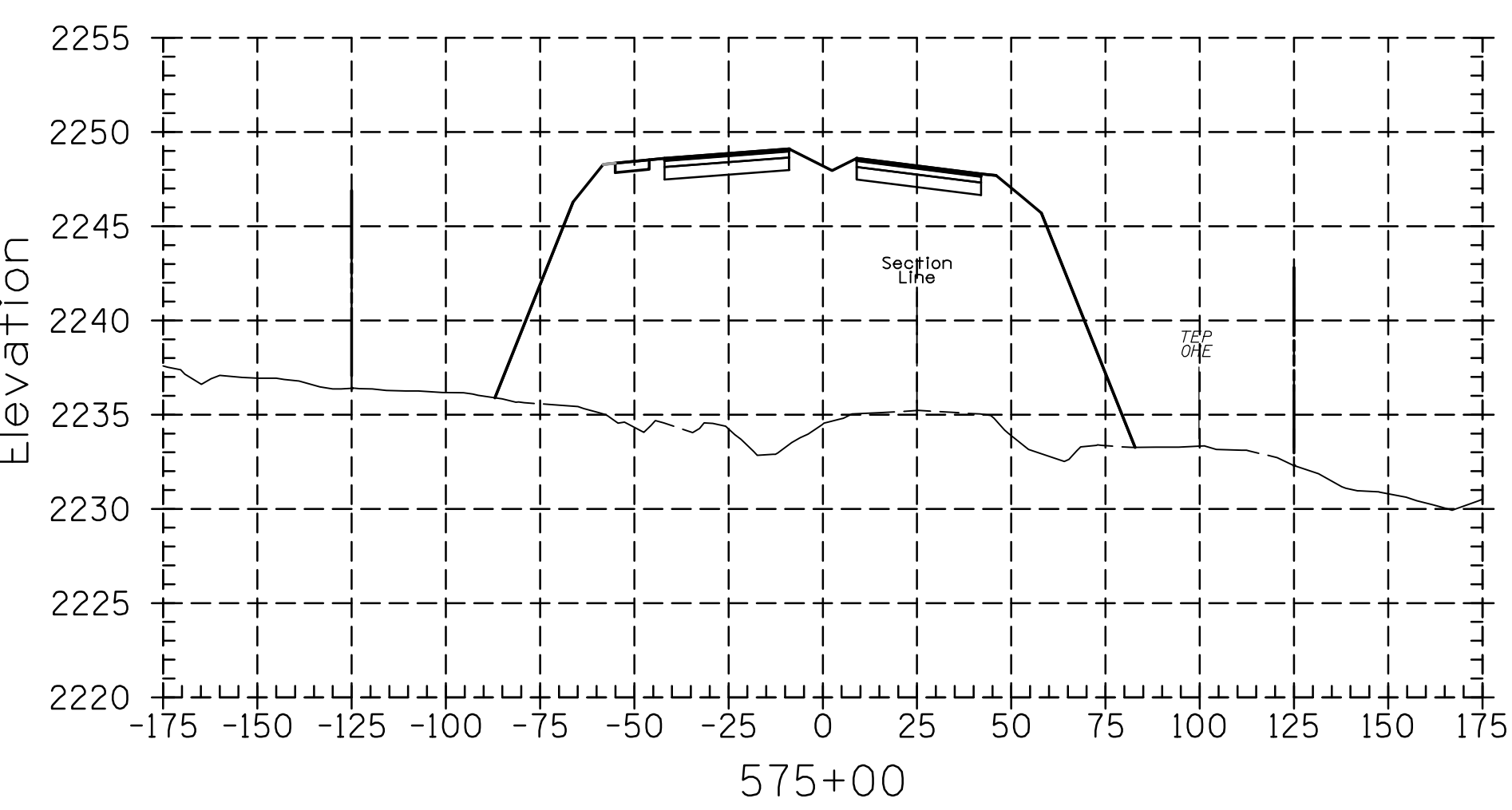
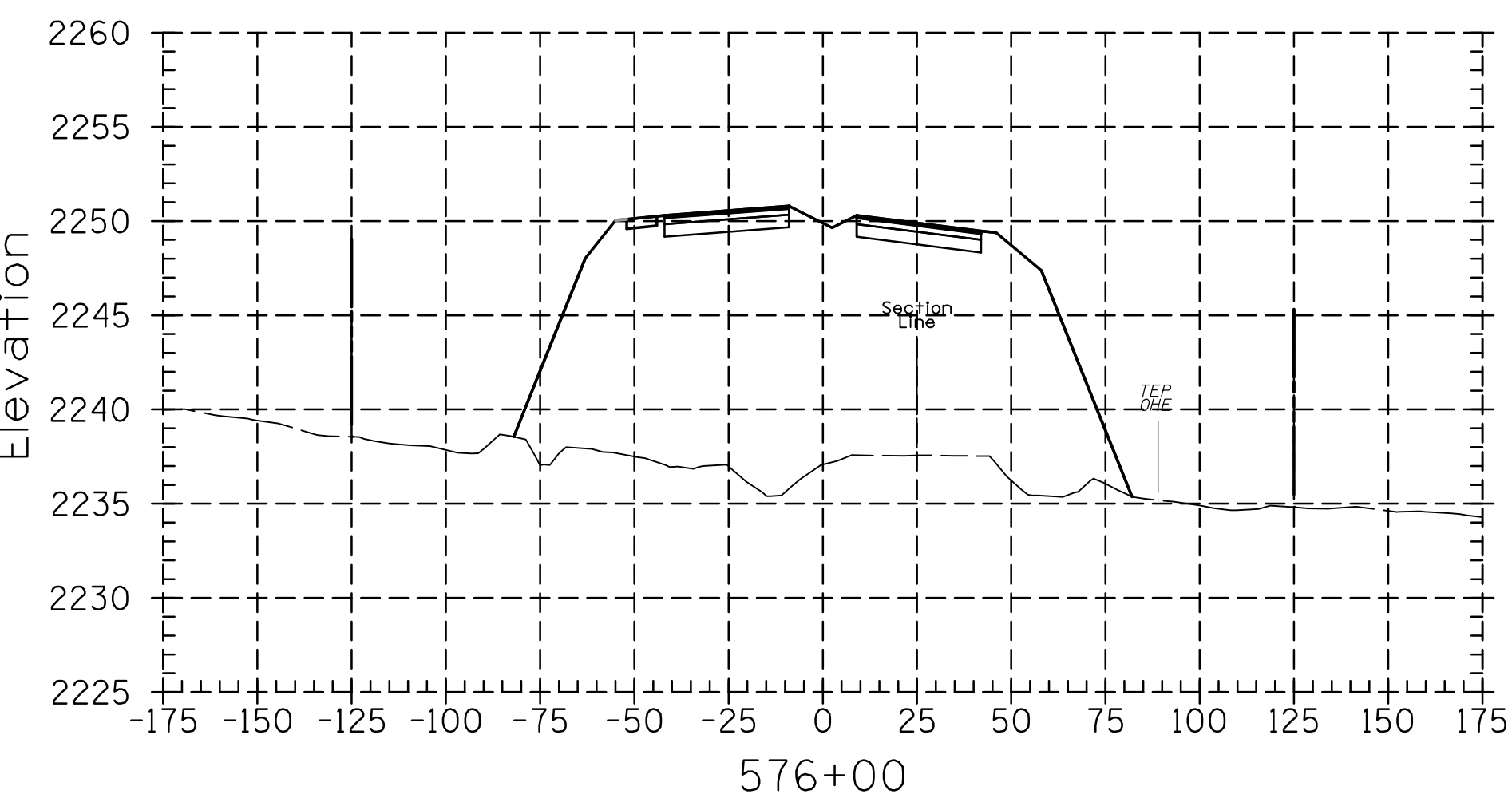
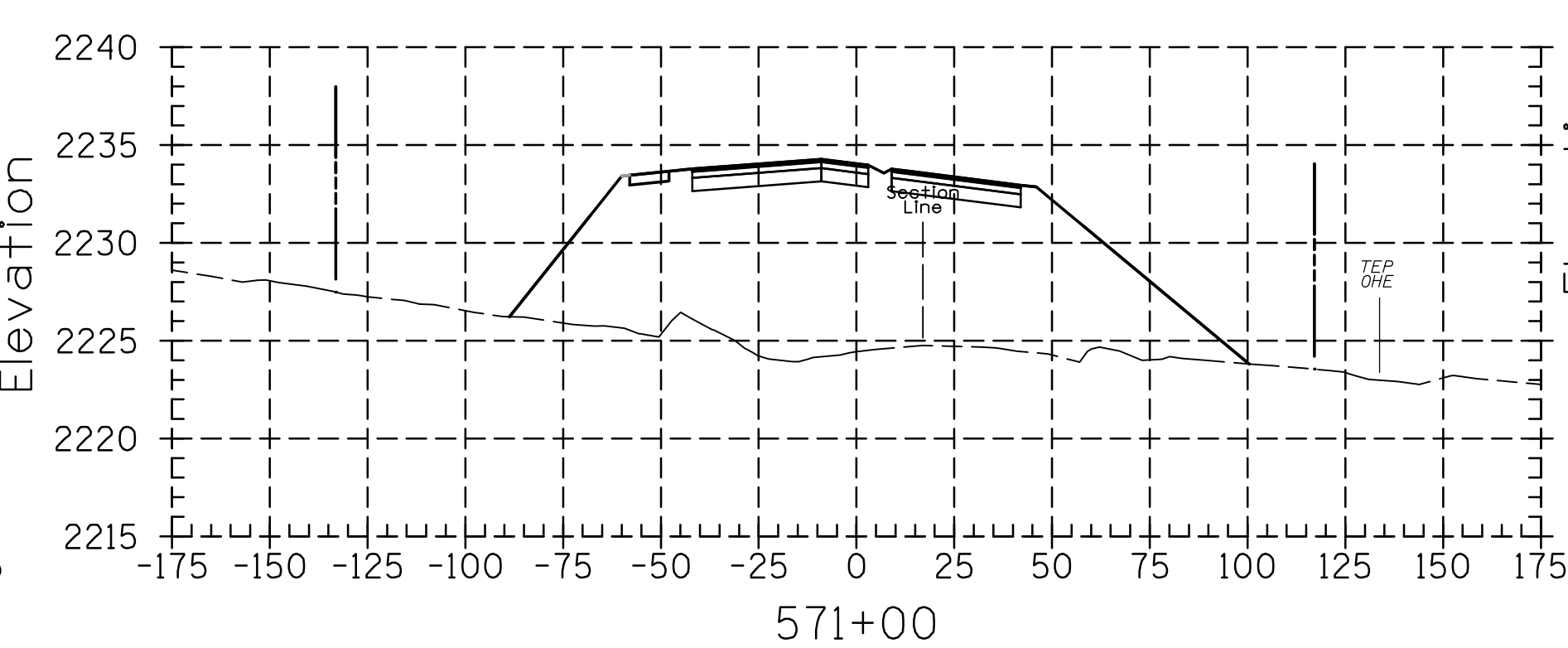
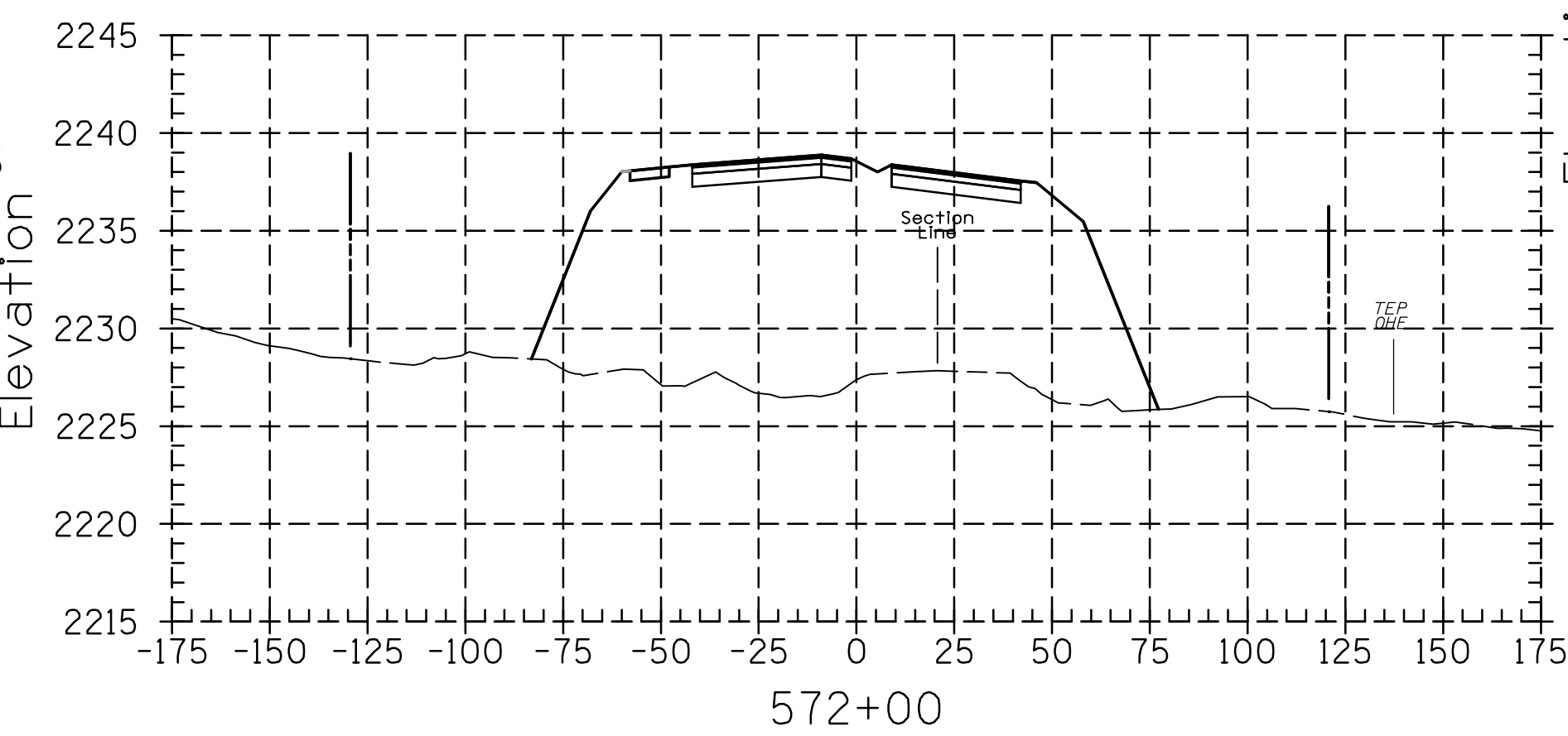
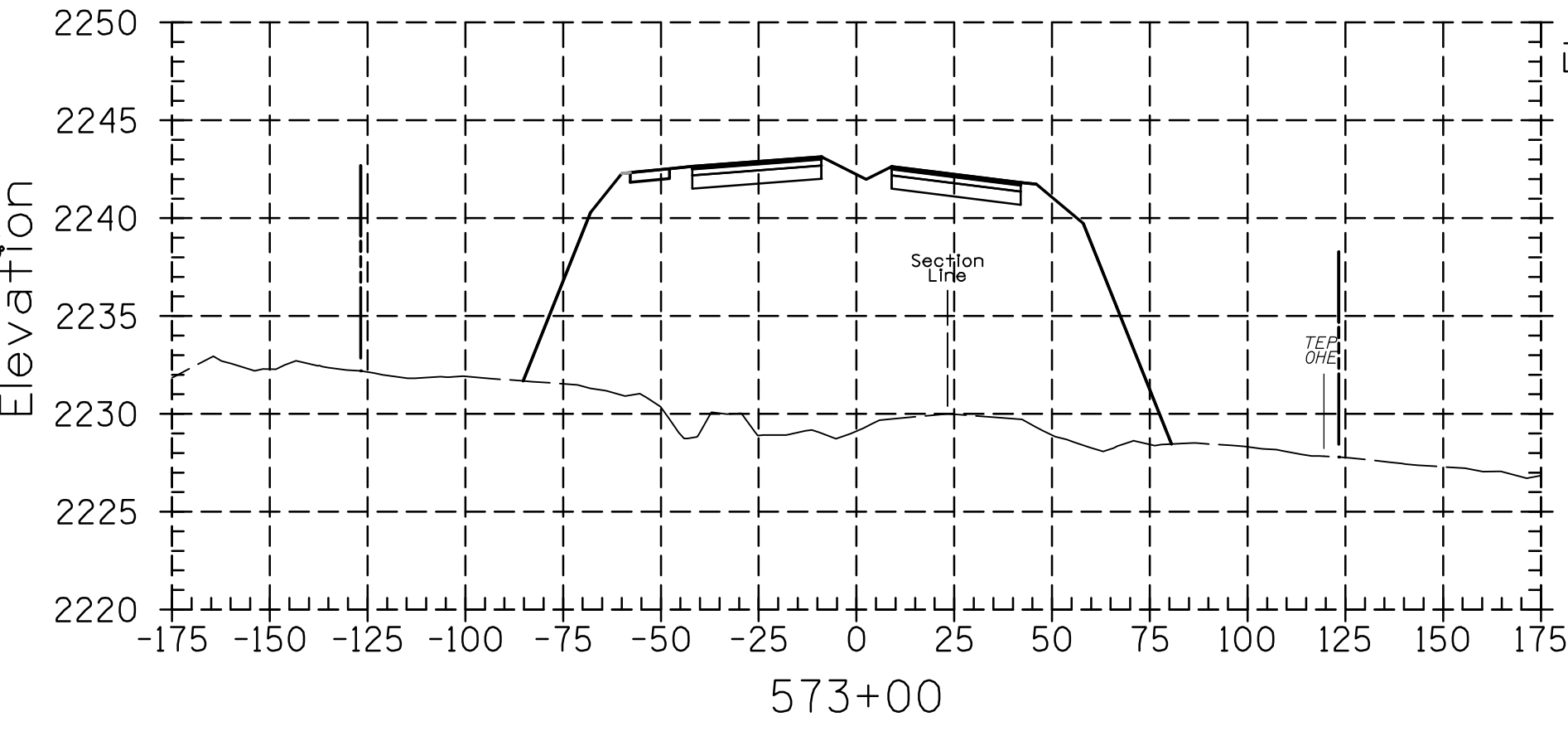
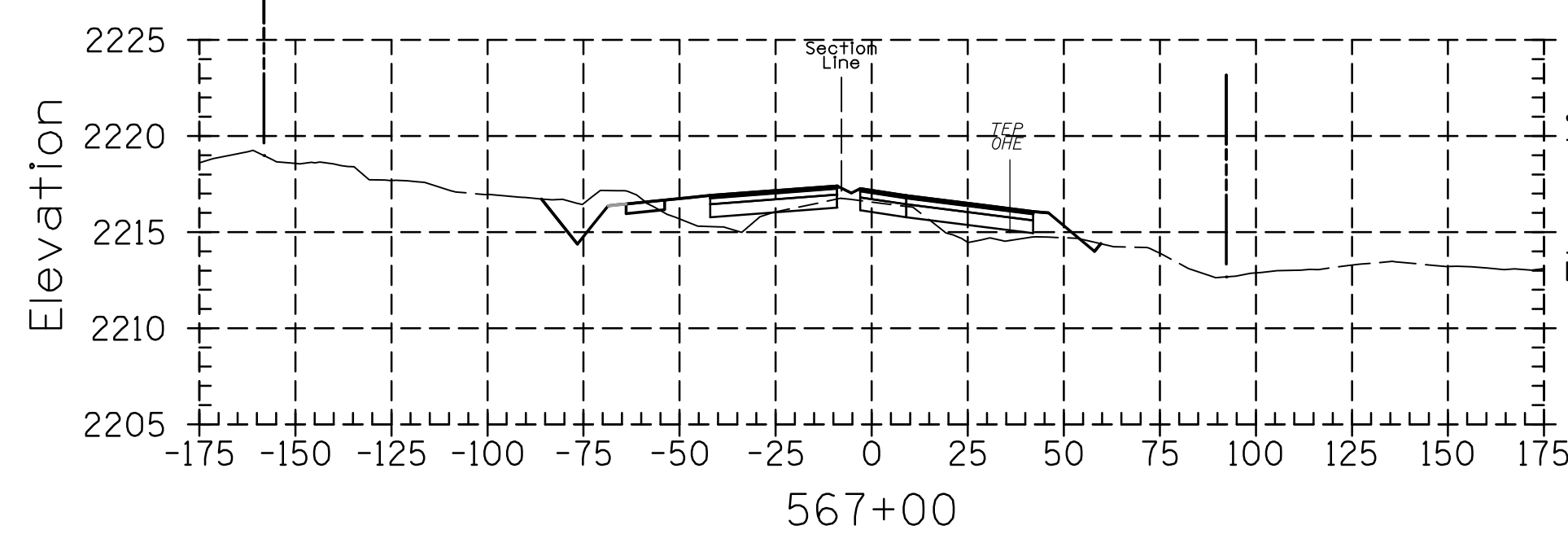
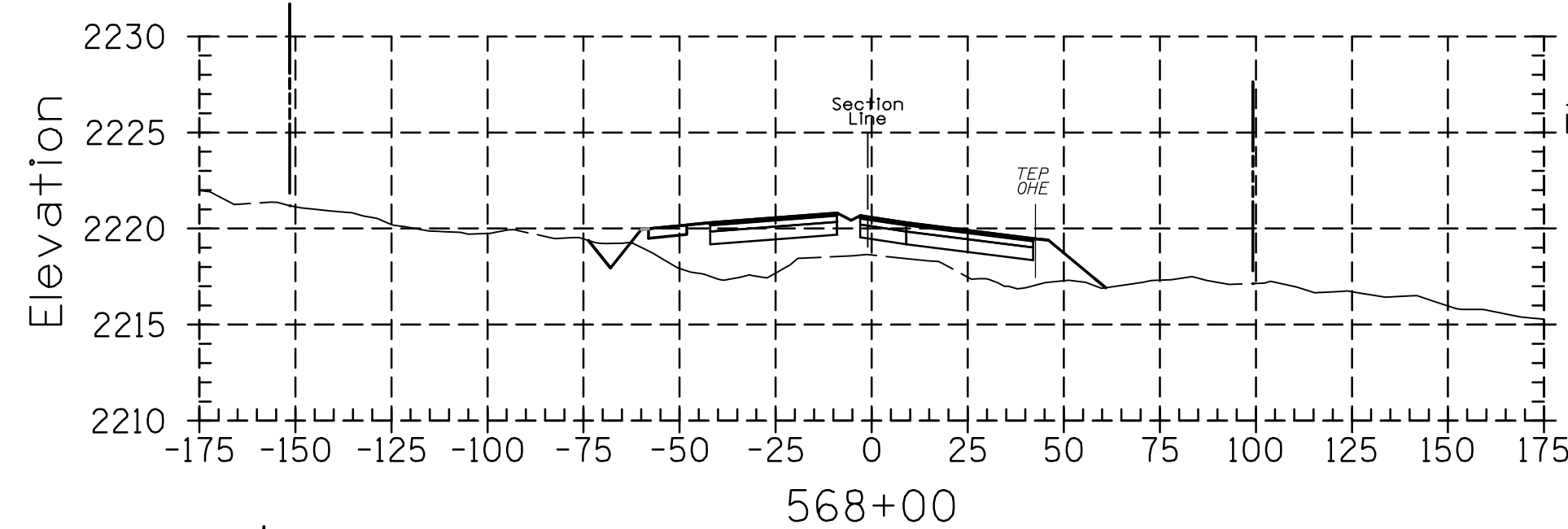
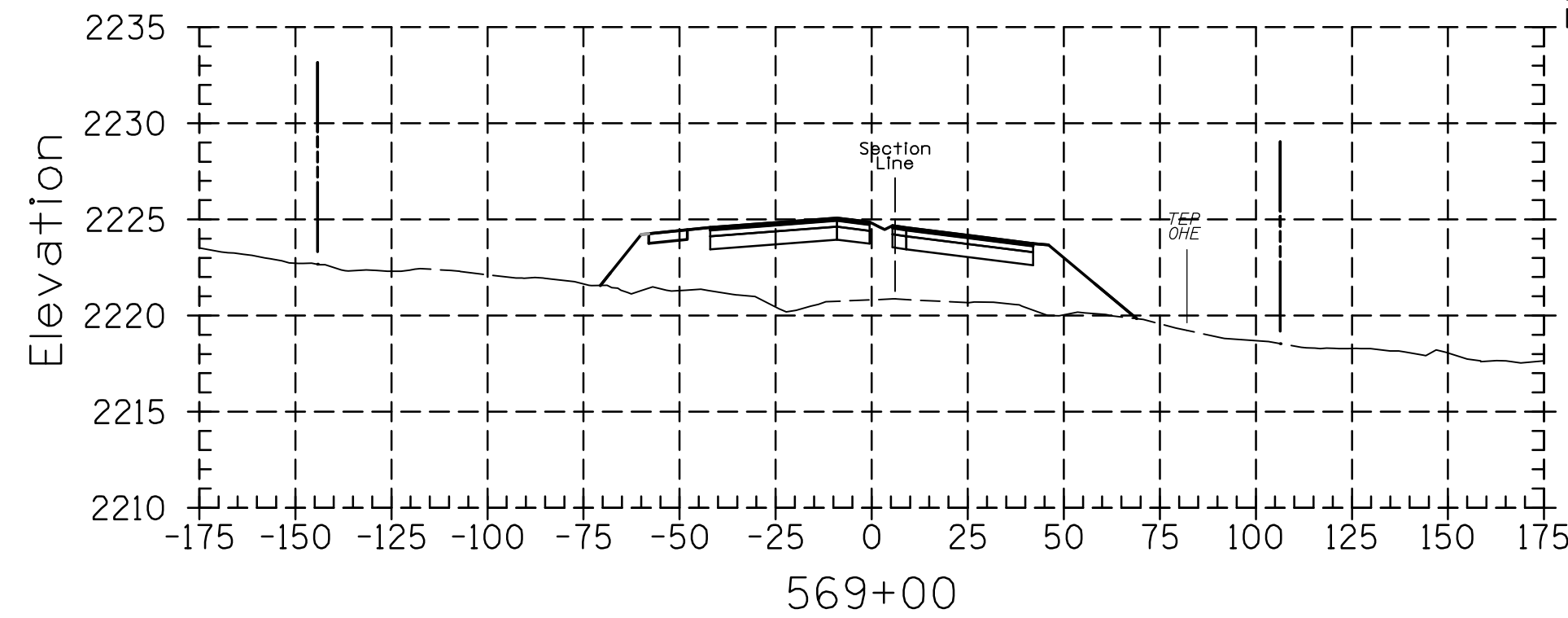
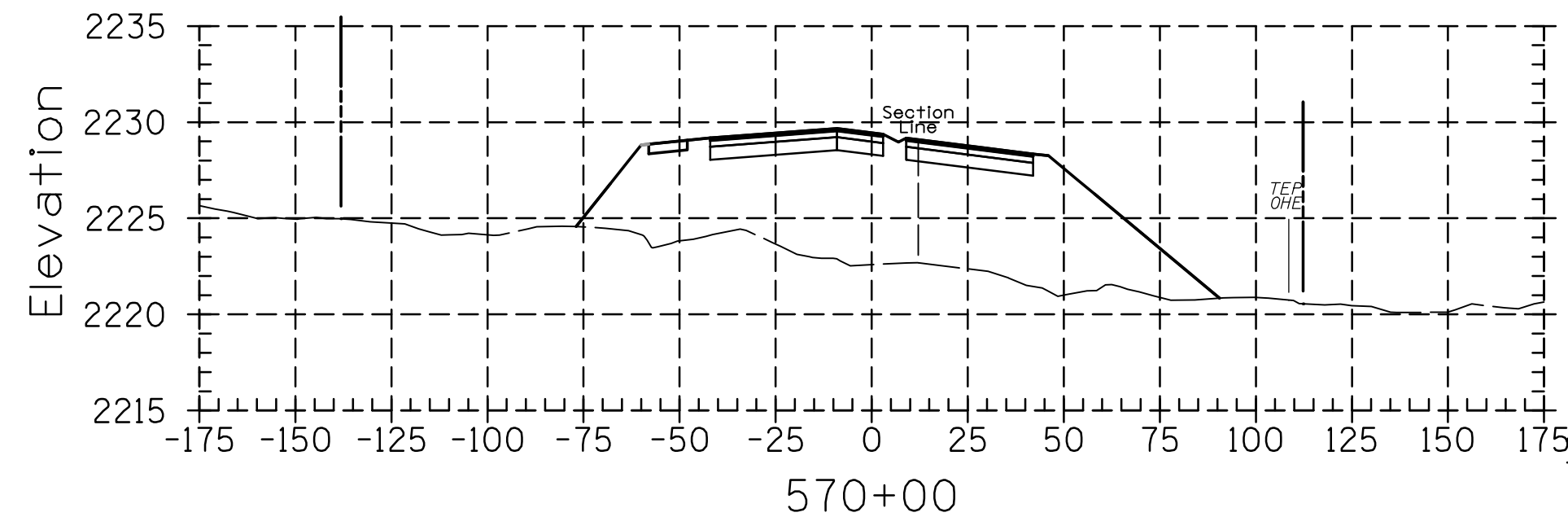
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TOWN OF MARANA - PROJECT NO. 2005-061
 CROSS SECTIONS FOR
TANGERINE ROAD
 STA 555+00 TO 566+00
 TANGERINE ROAD

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STA 567+00 TO STA 576+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS11 OF XS31

PAGE OF

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
STA 567+00 TO 576+00
TANGERINE ROAD

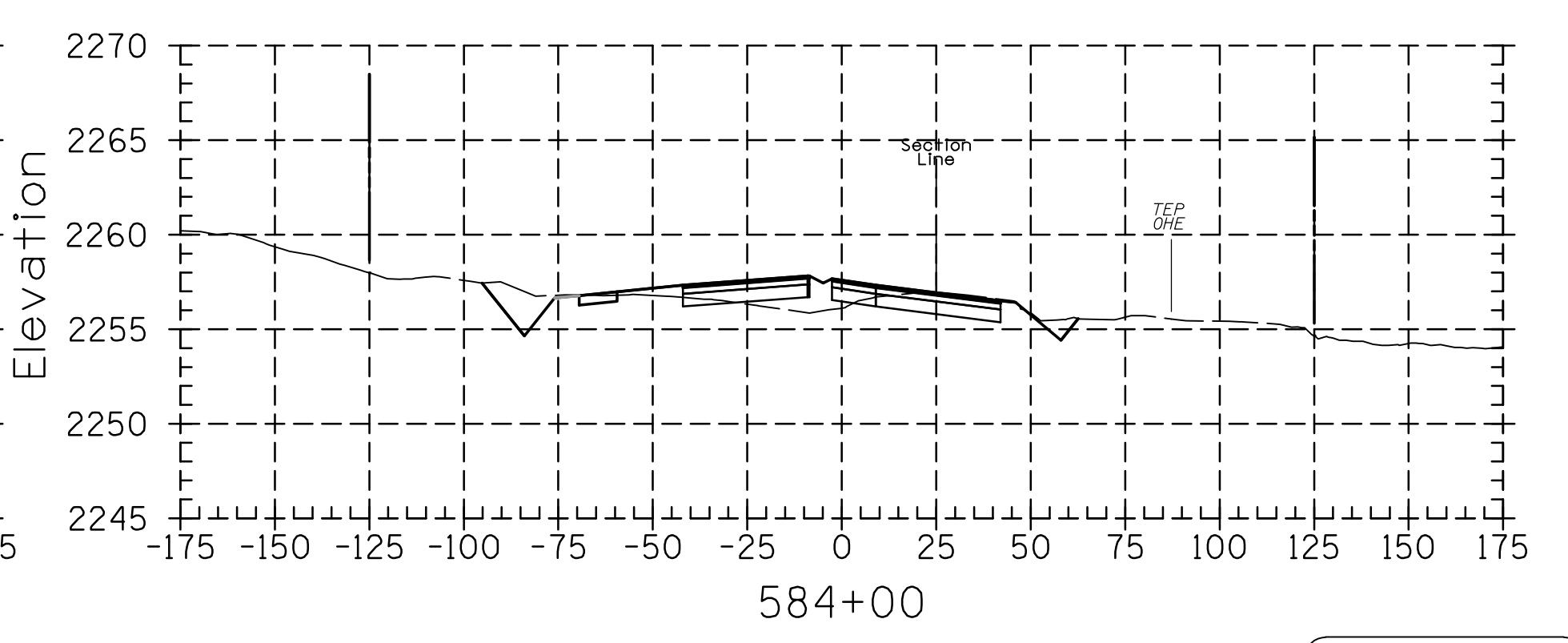
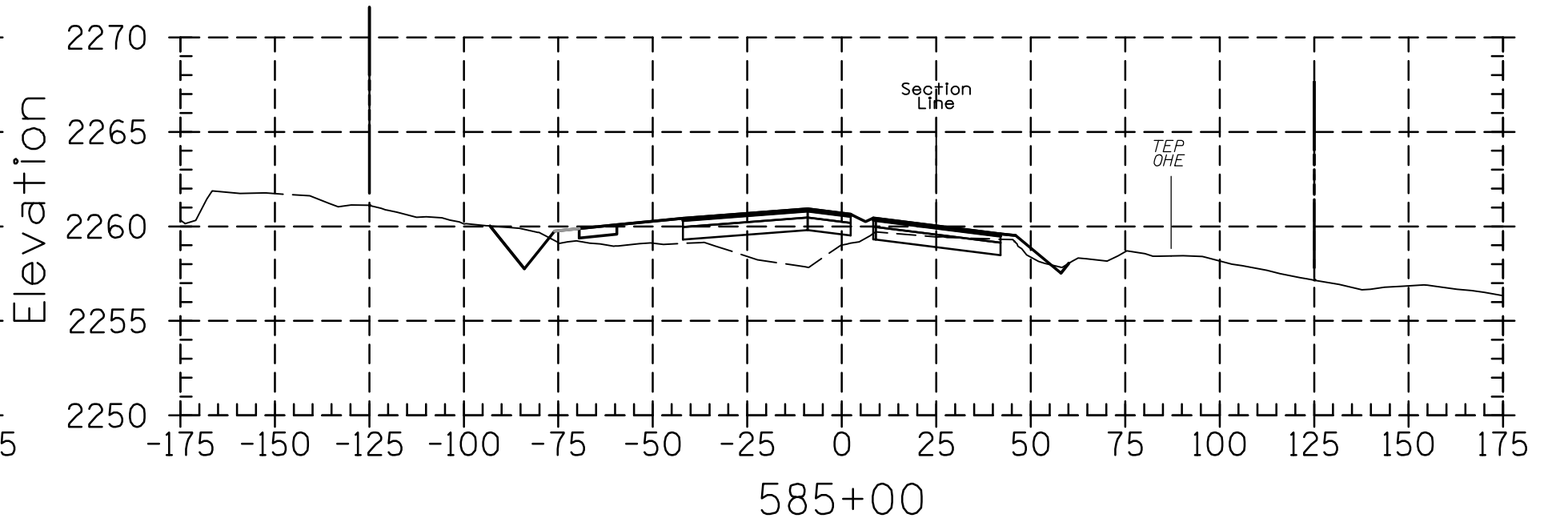
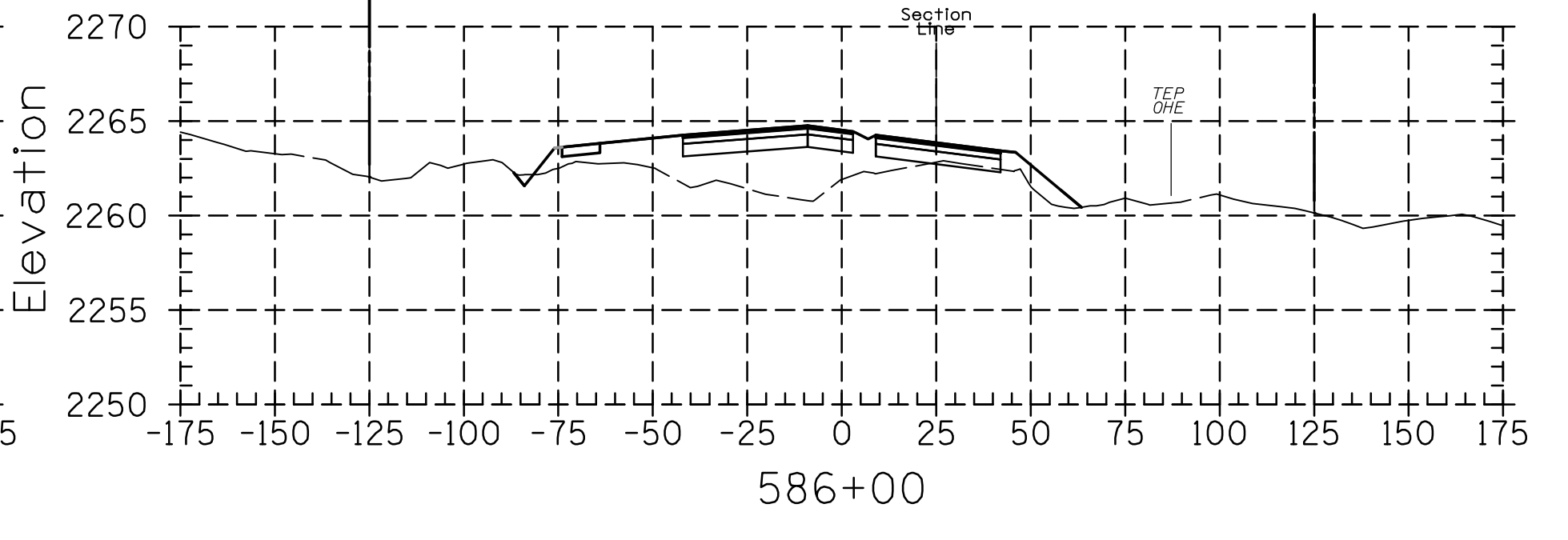
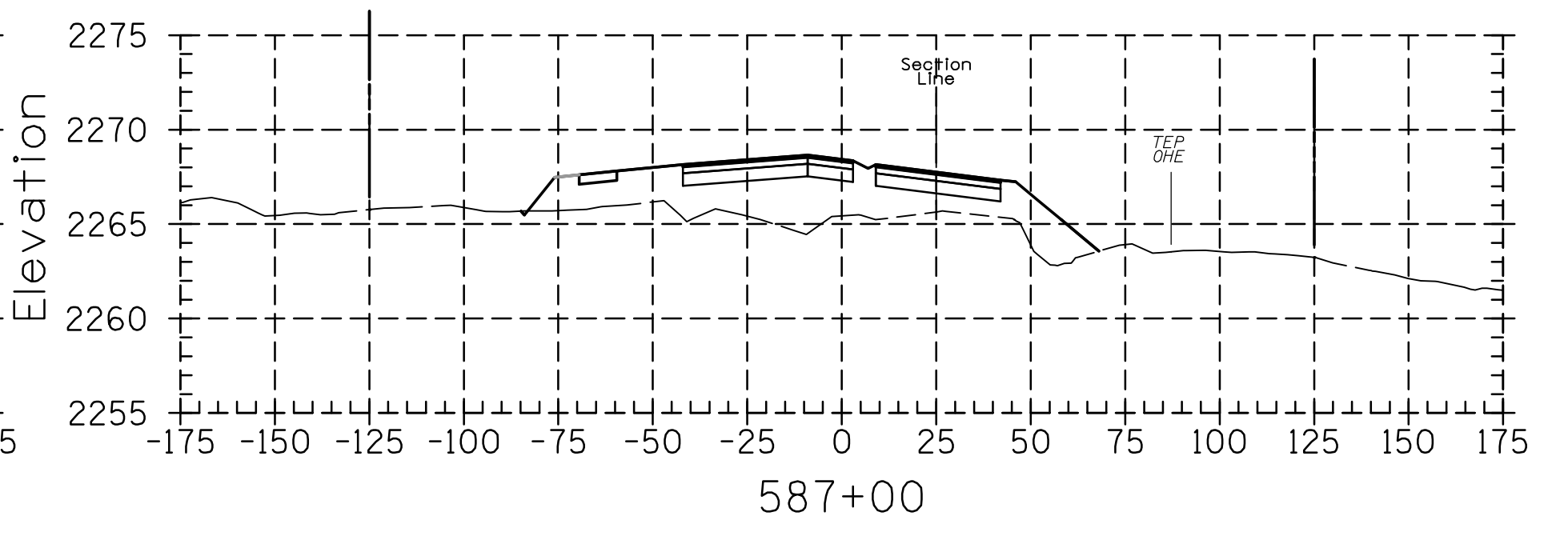
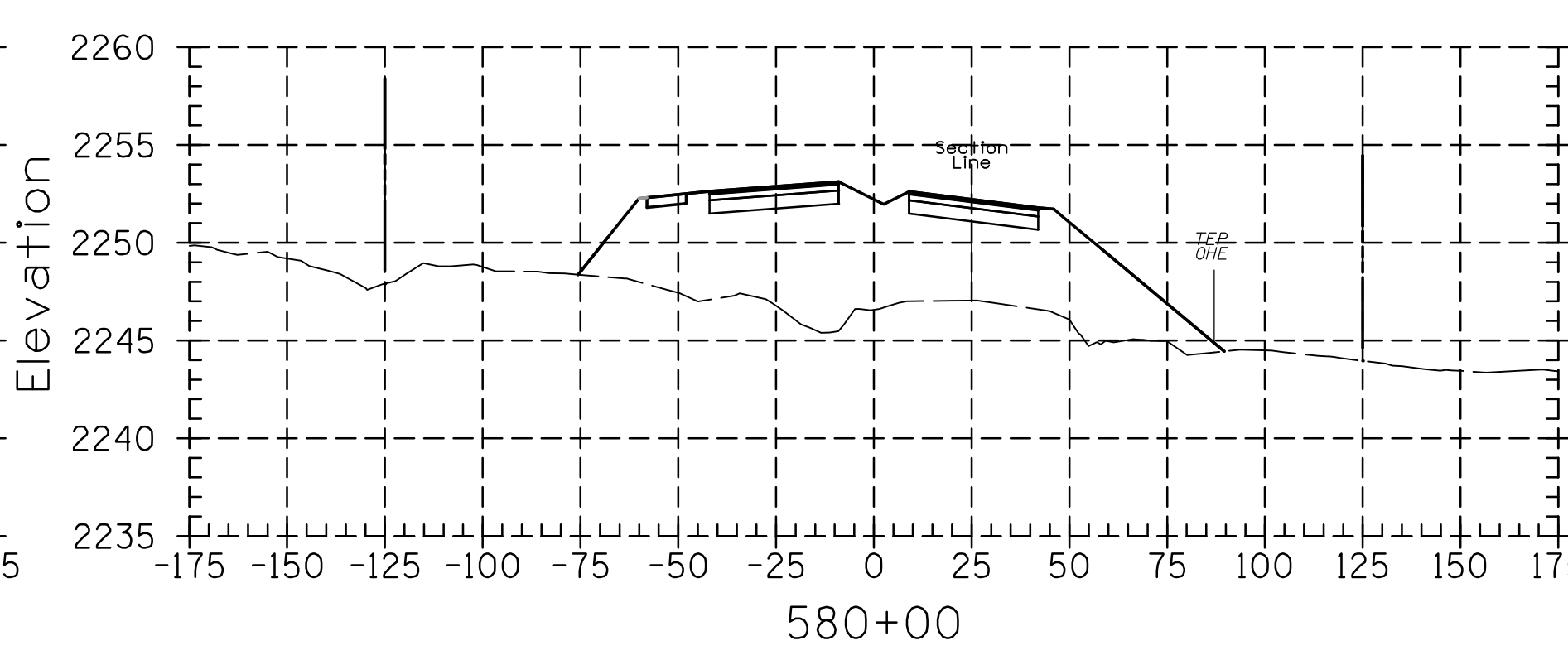
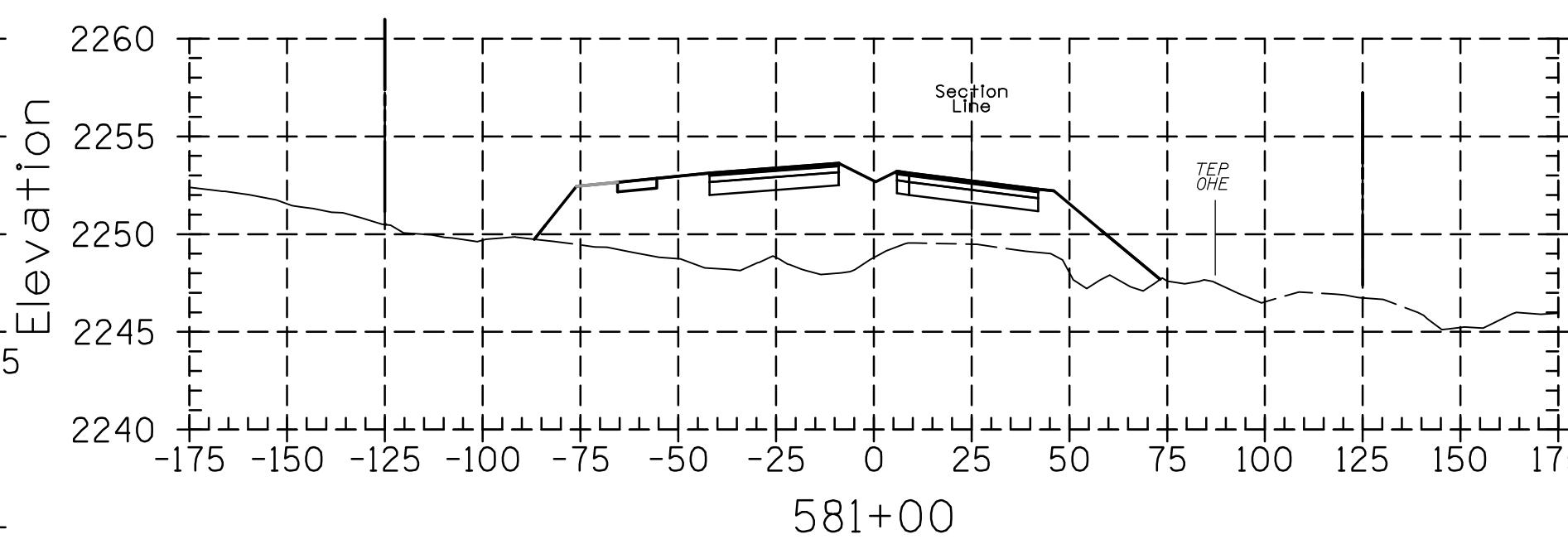
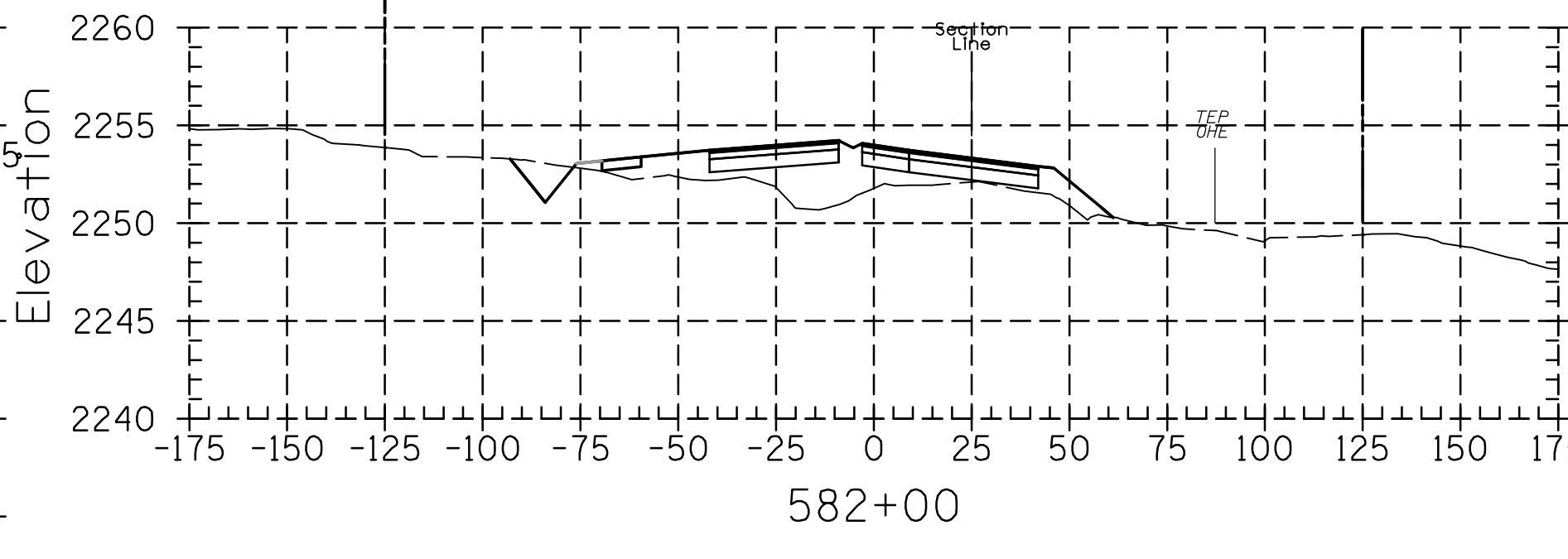
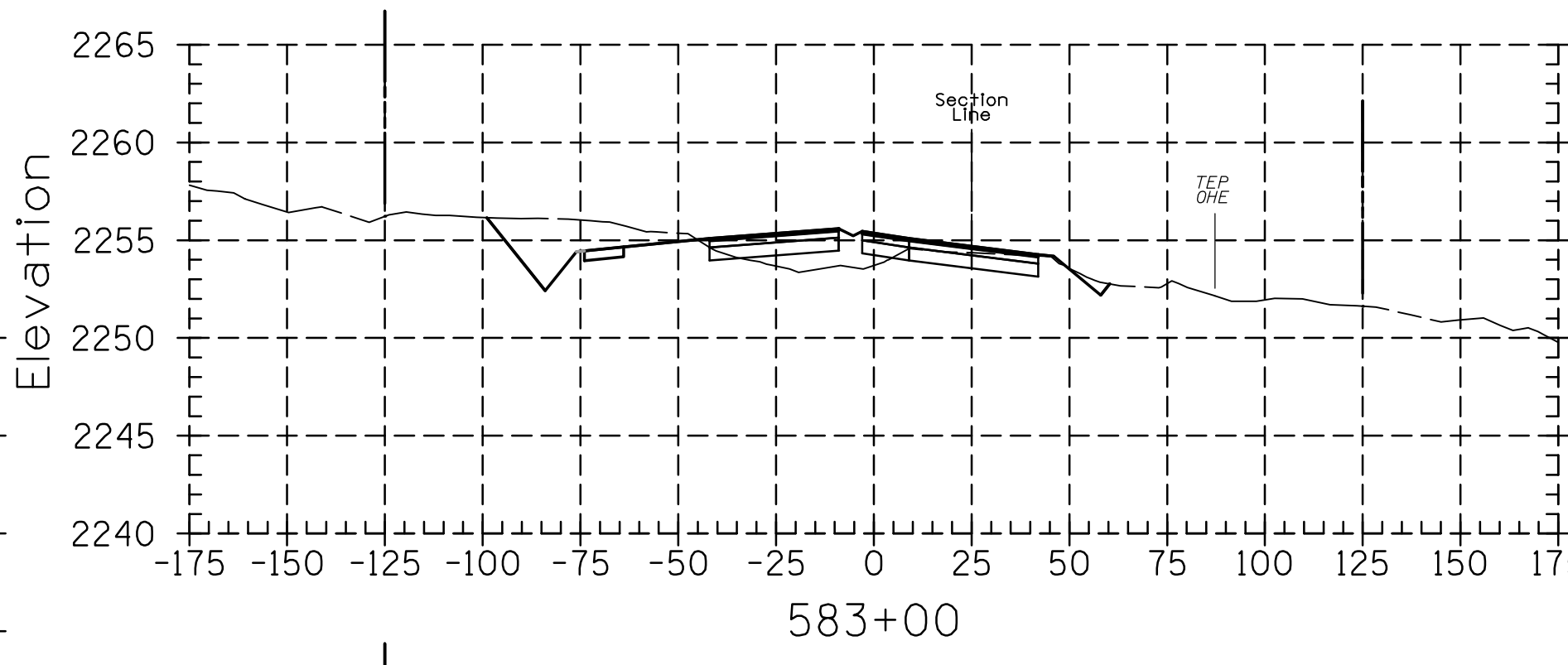
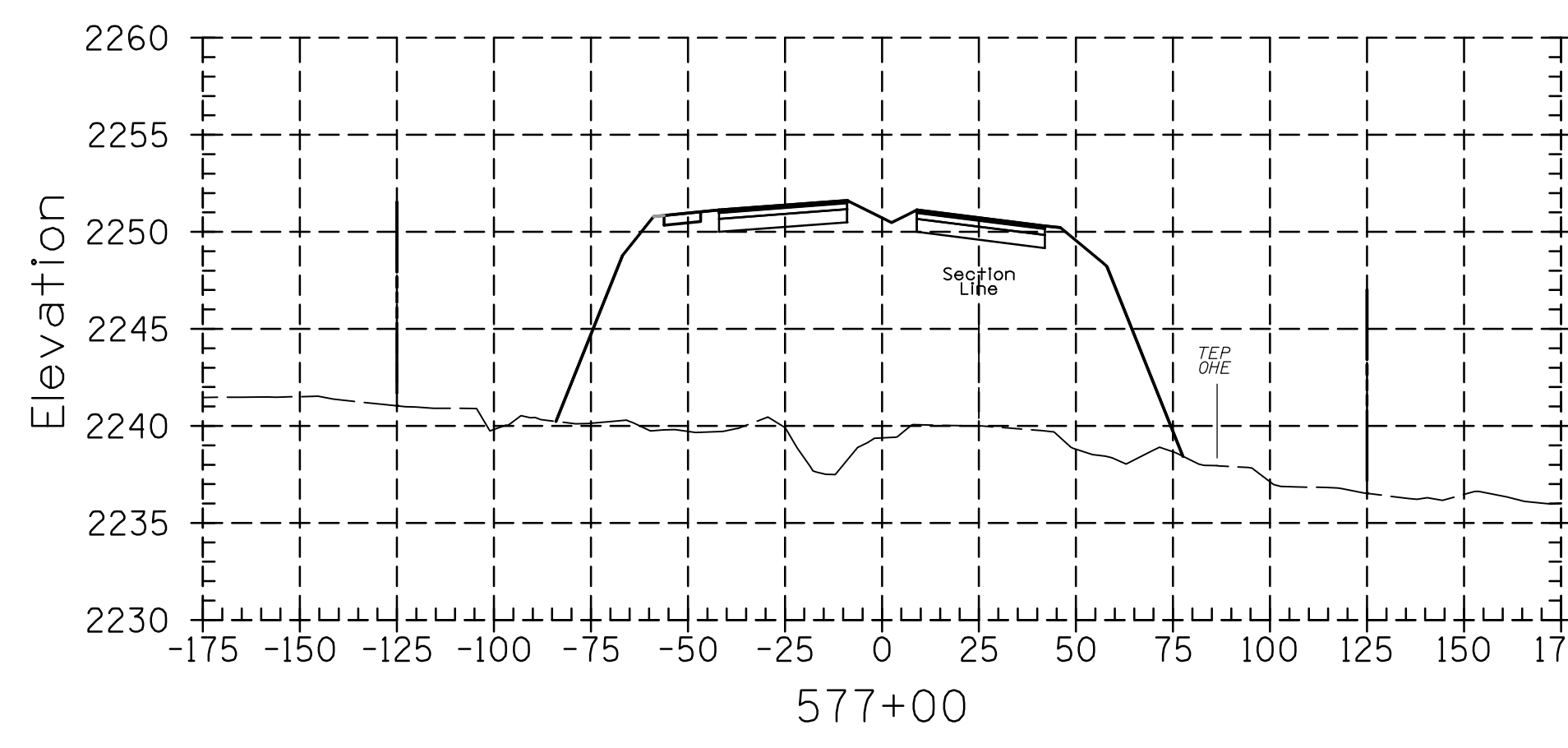
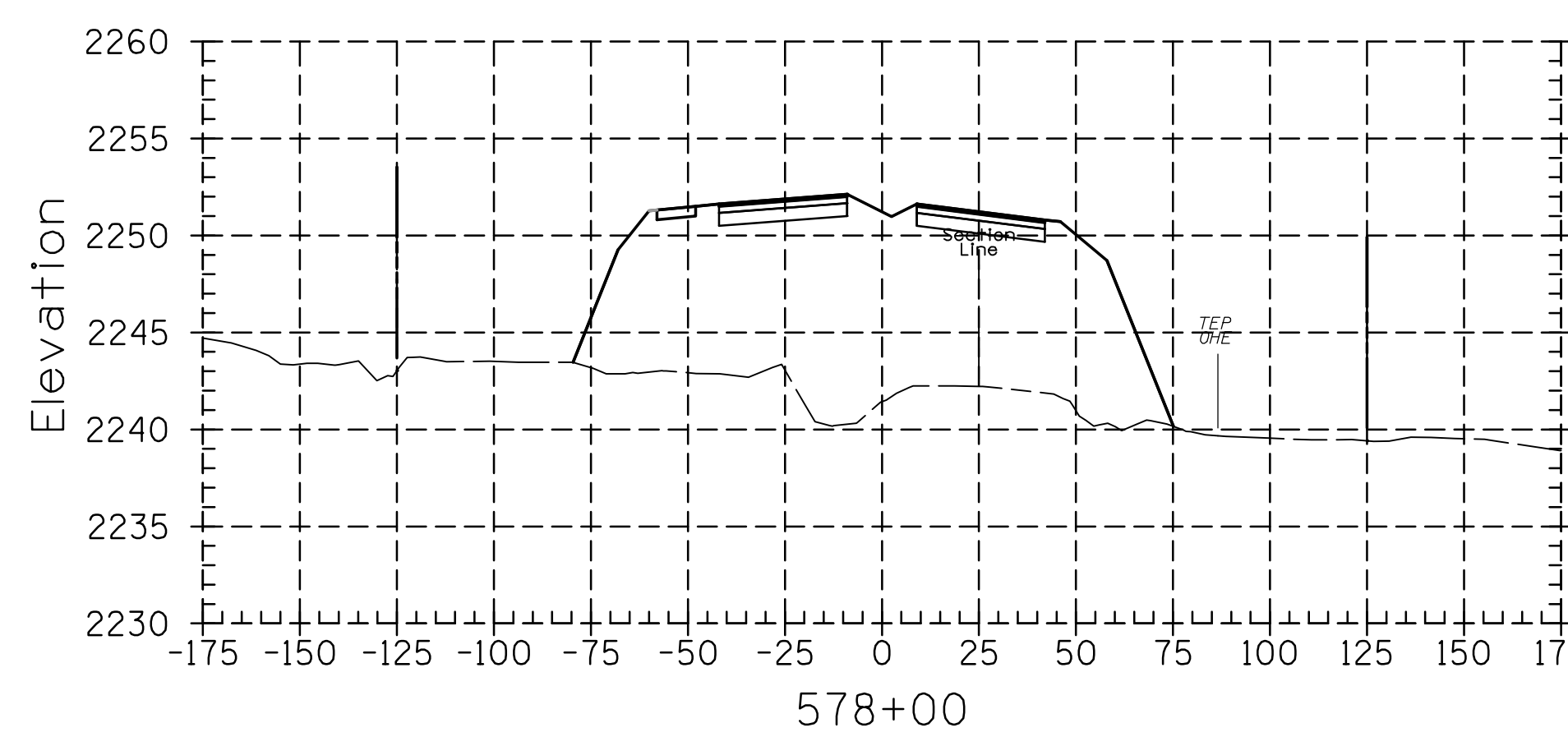
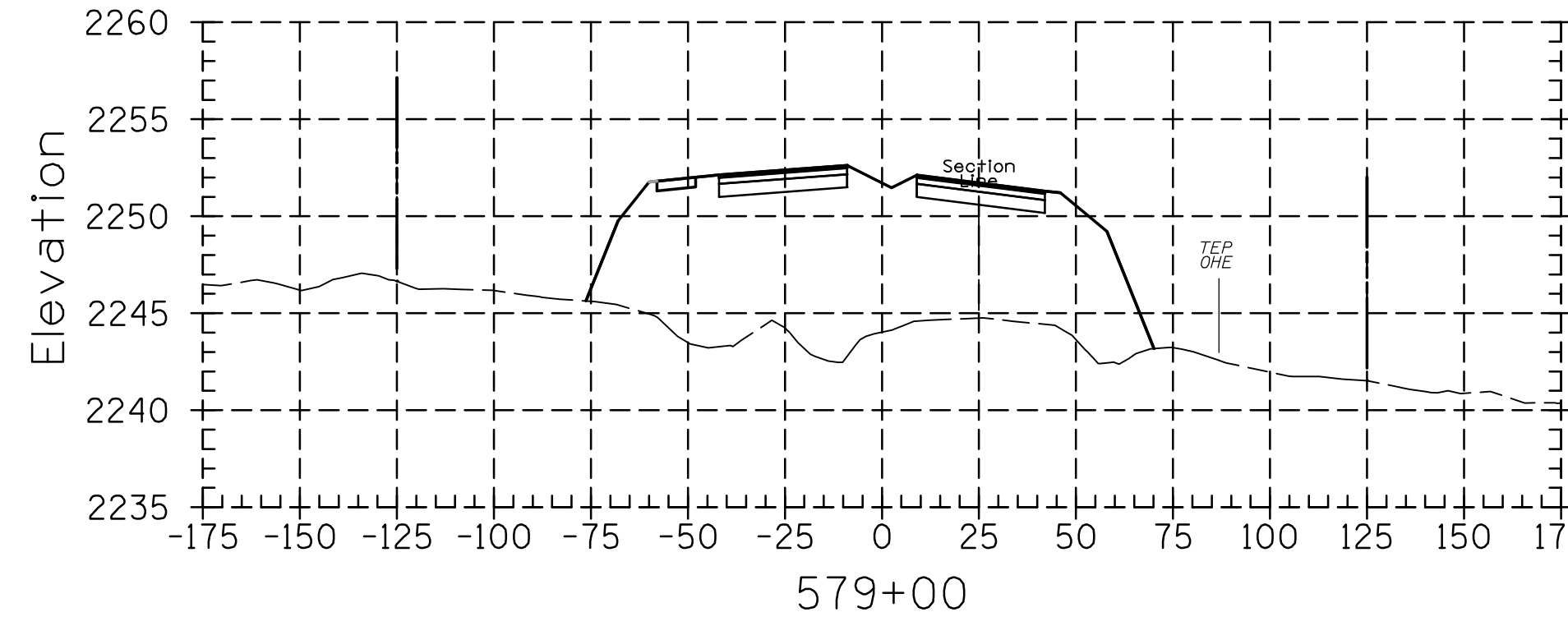
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STA 577+00 TO STA 587+00



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 VERT. 1"=8'
 SHEET XS12 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

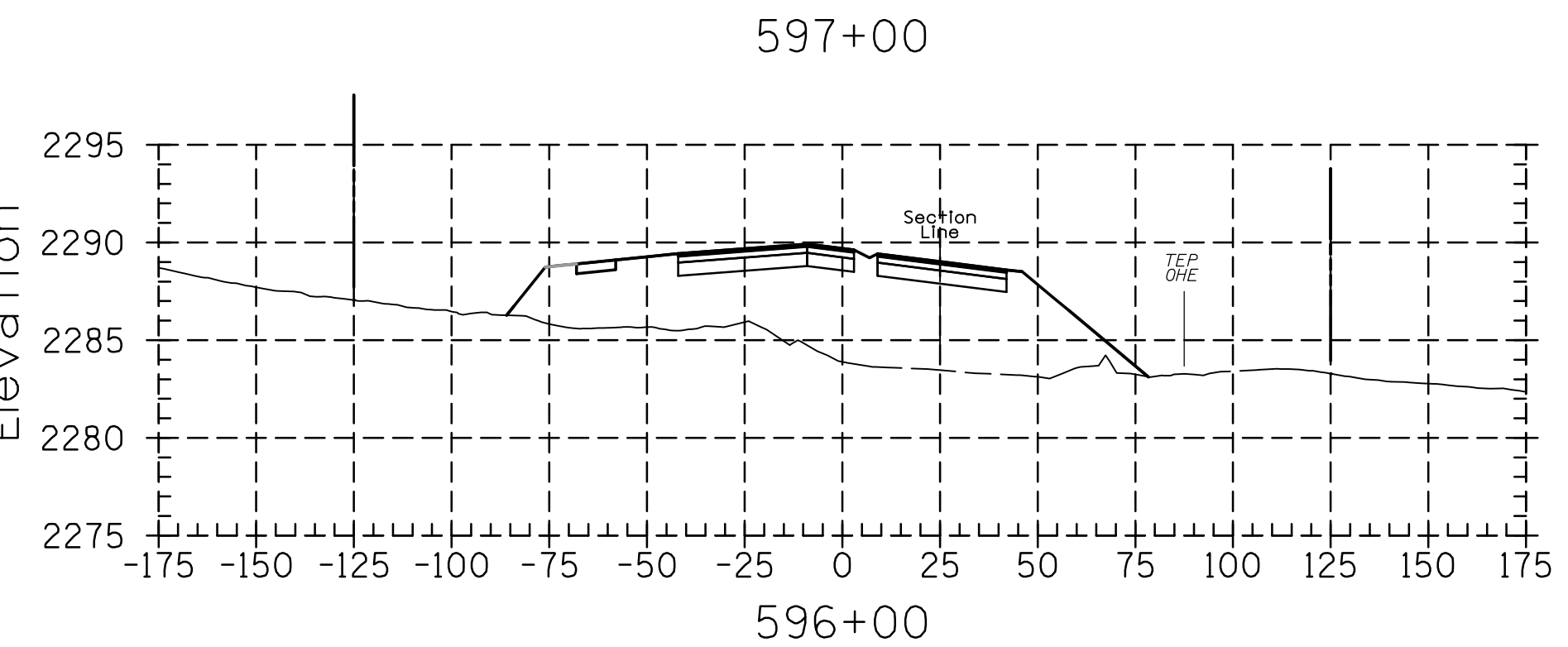
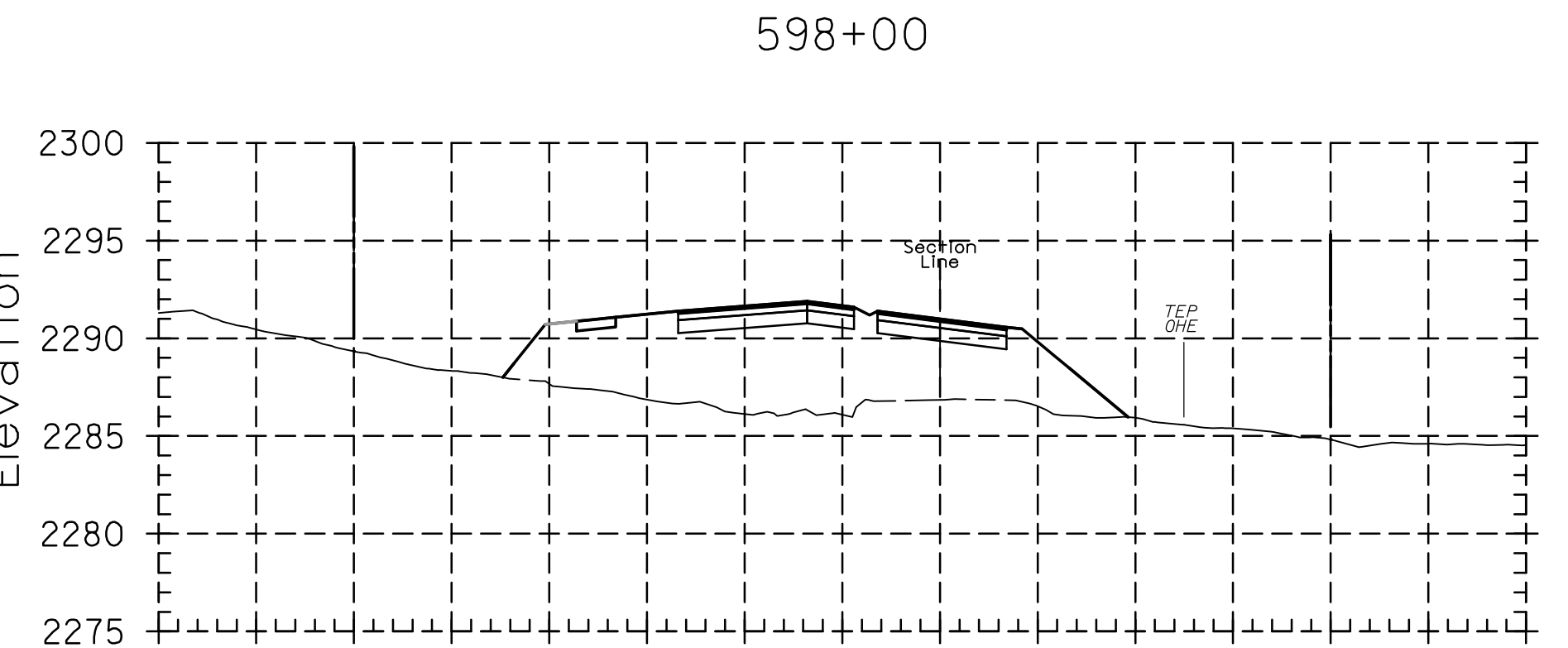
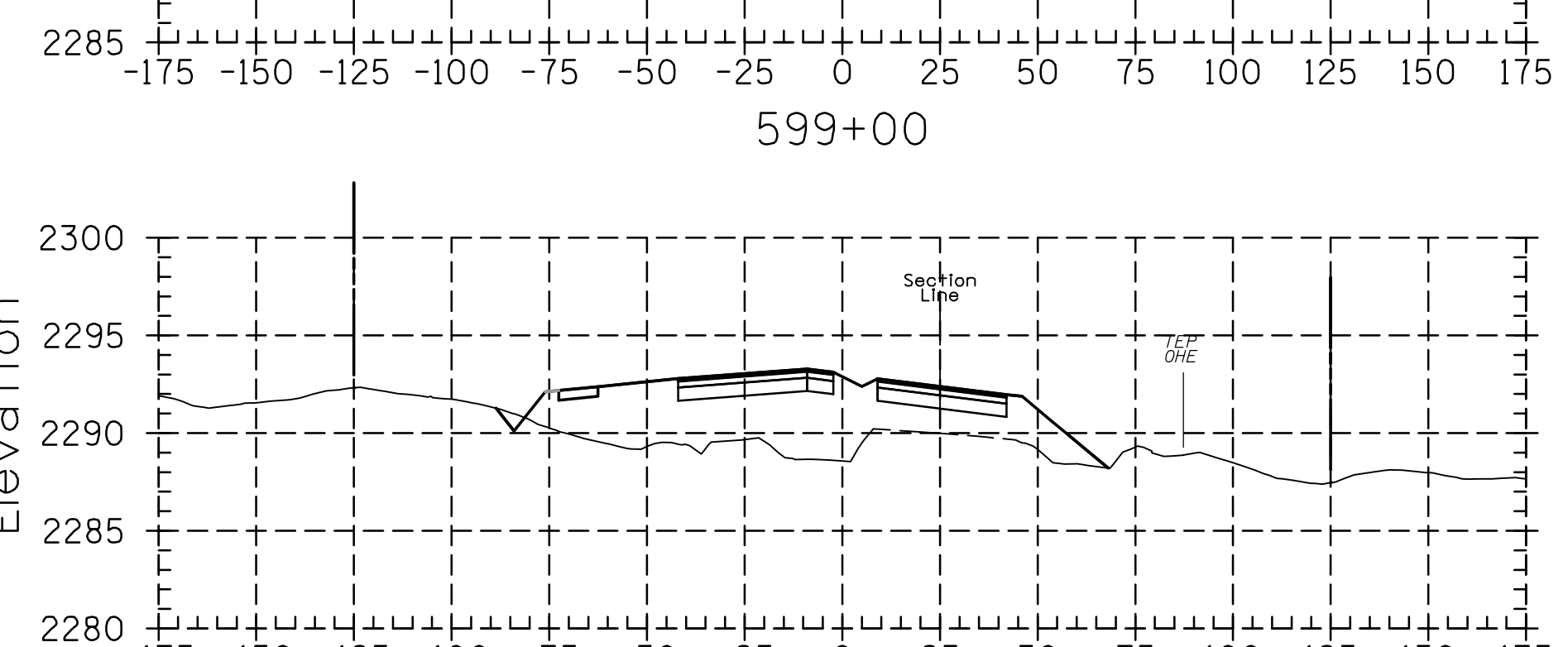
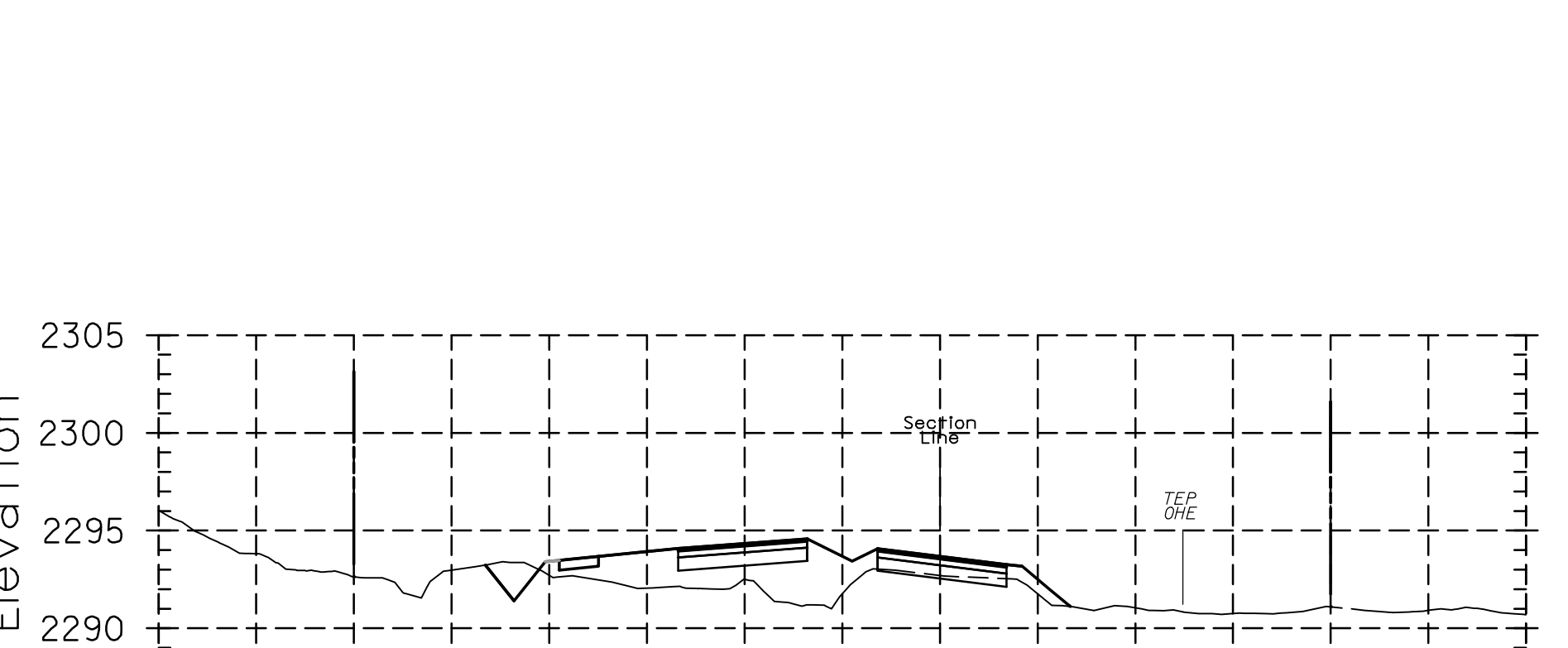
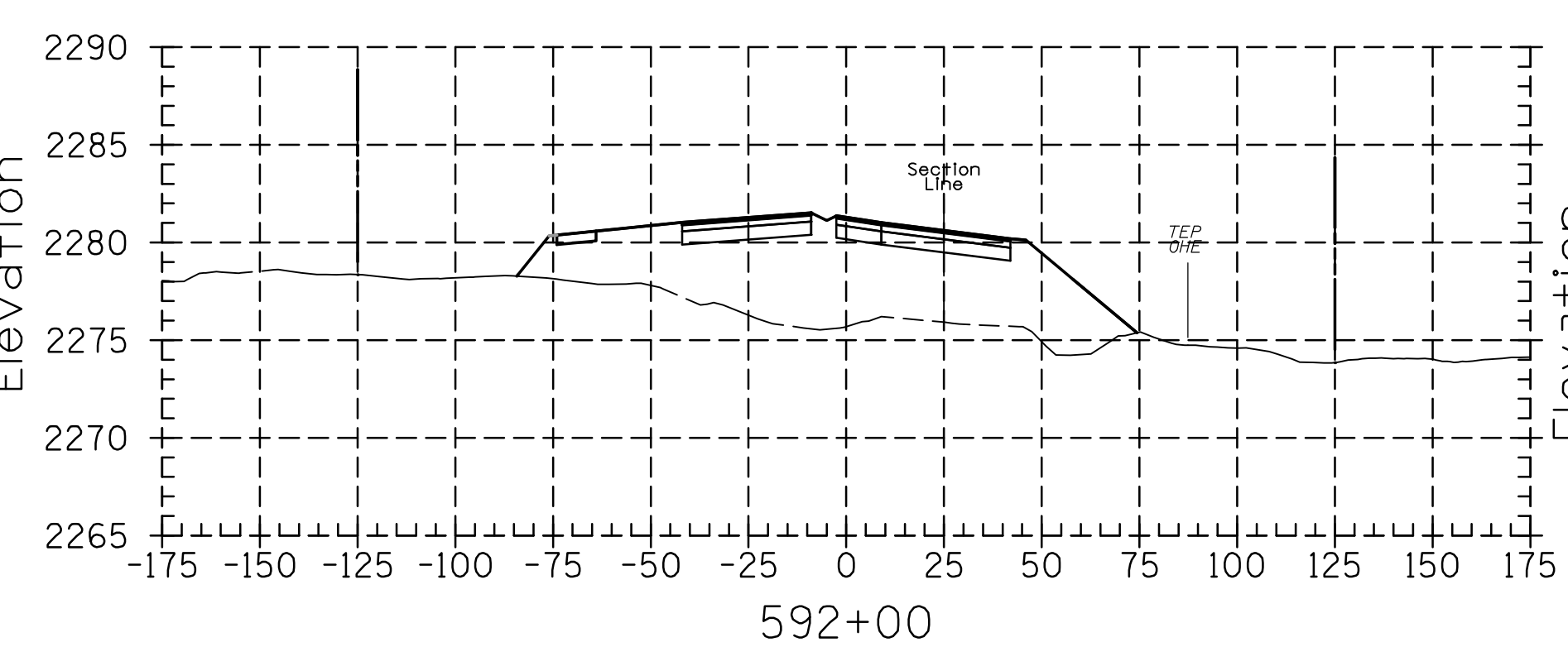
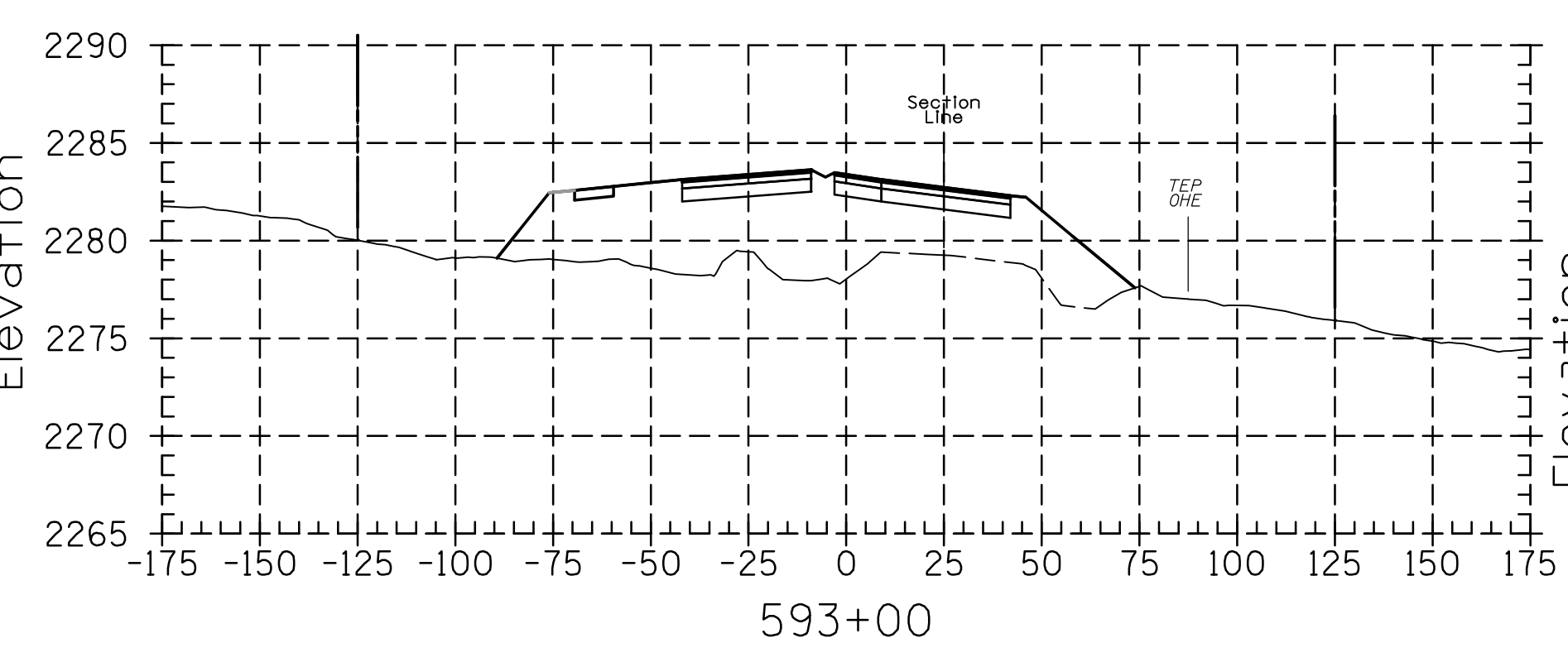
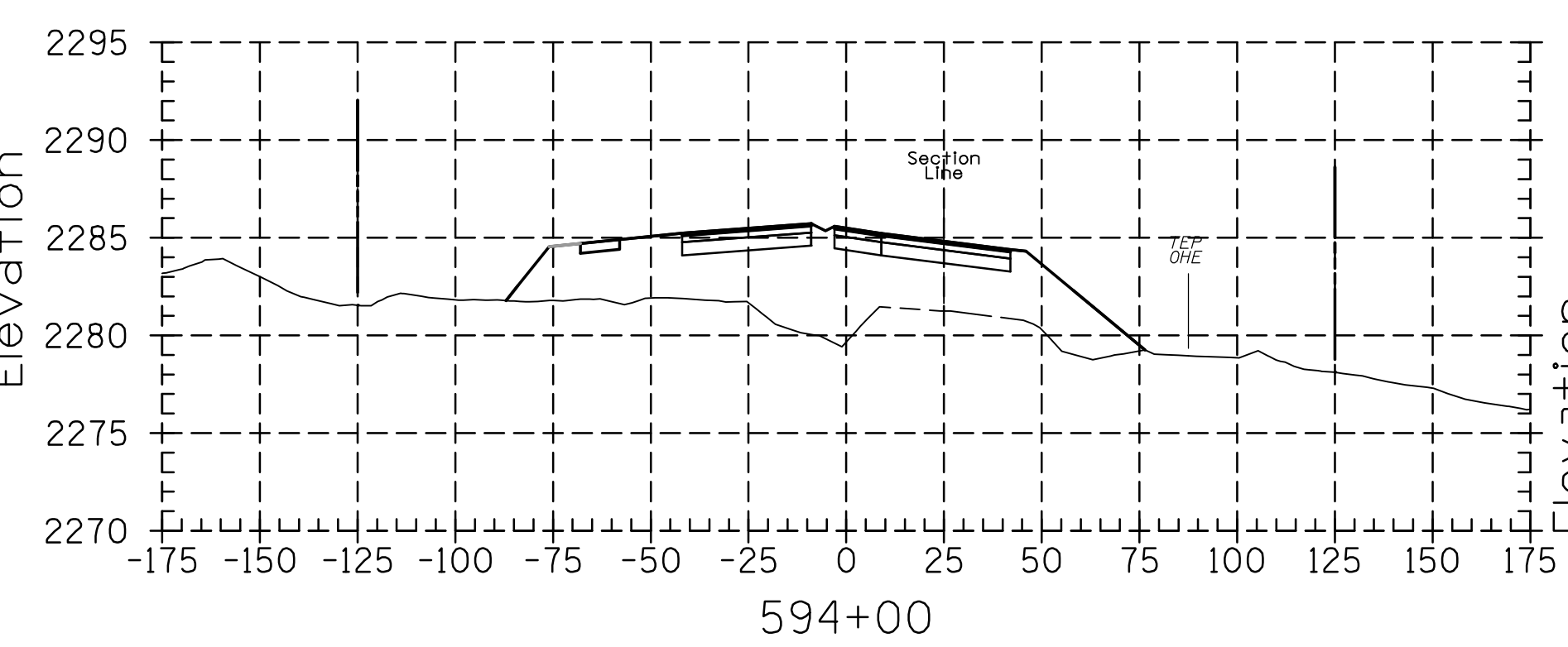
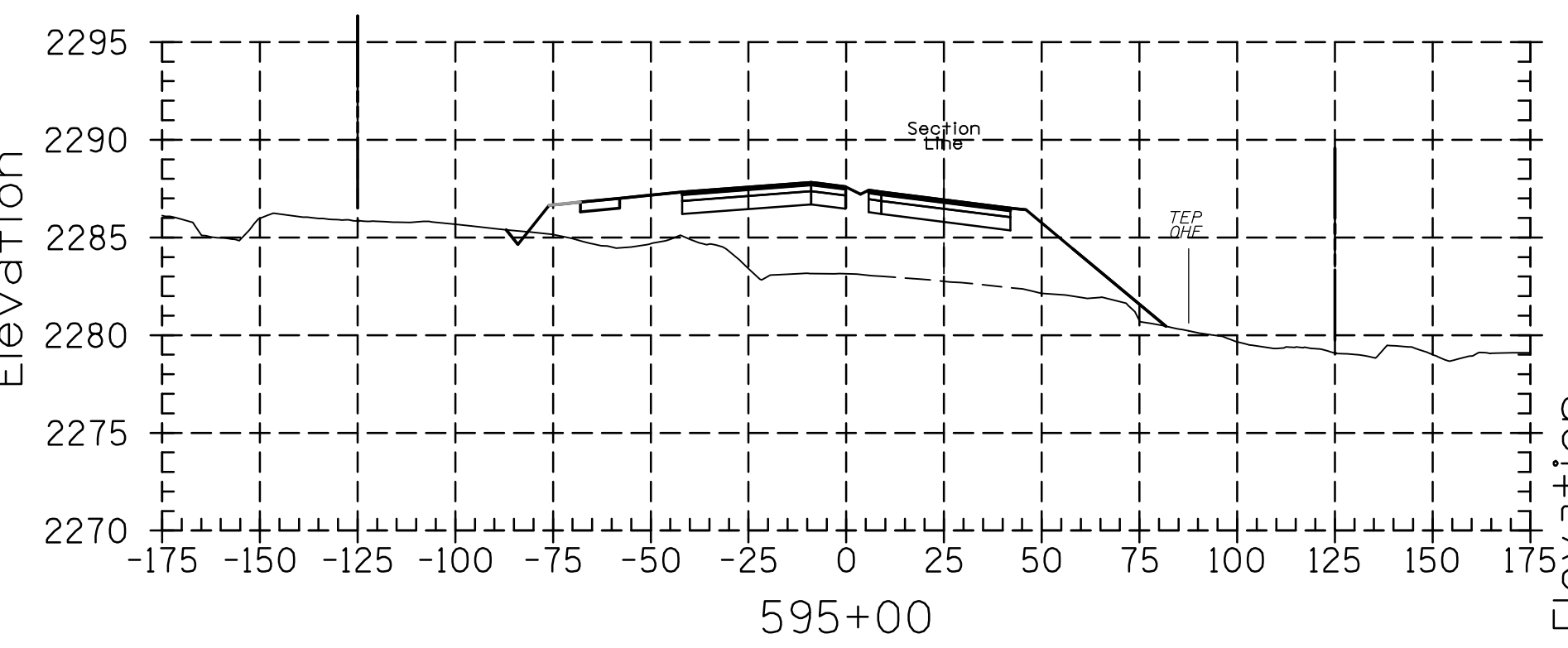
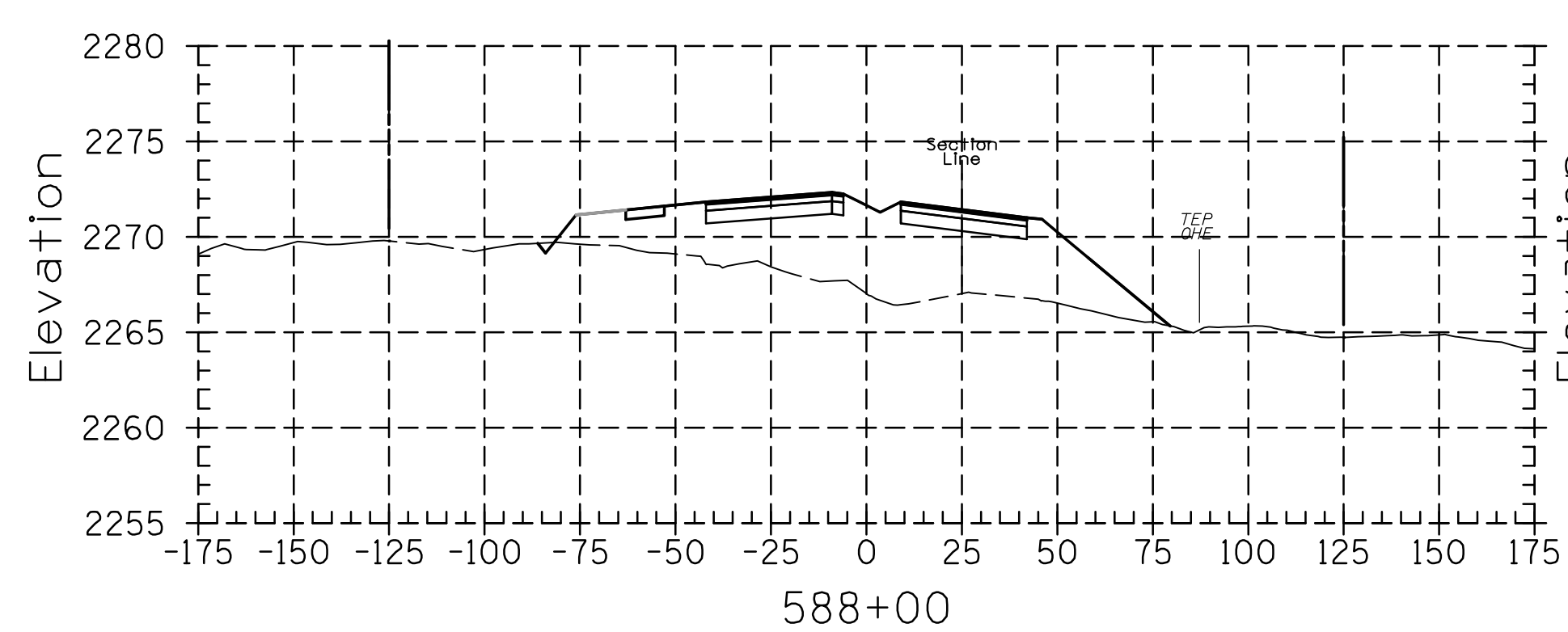
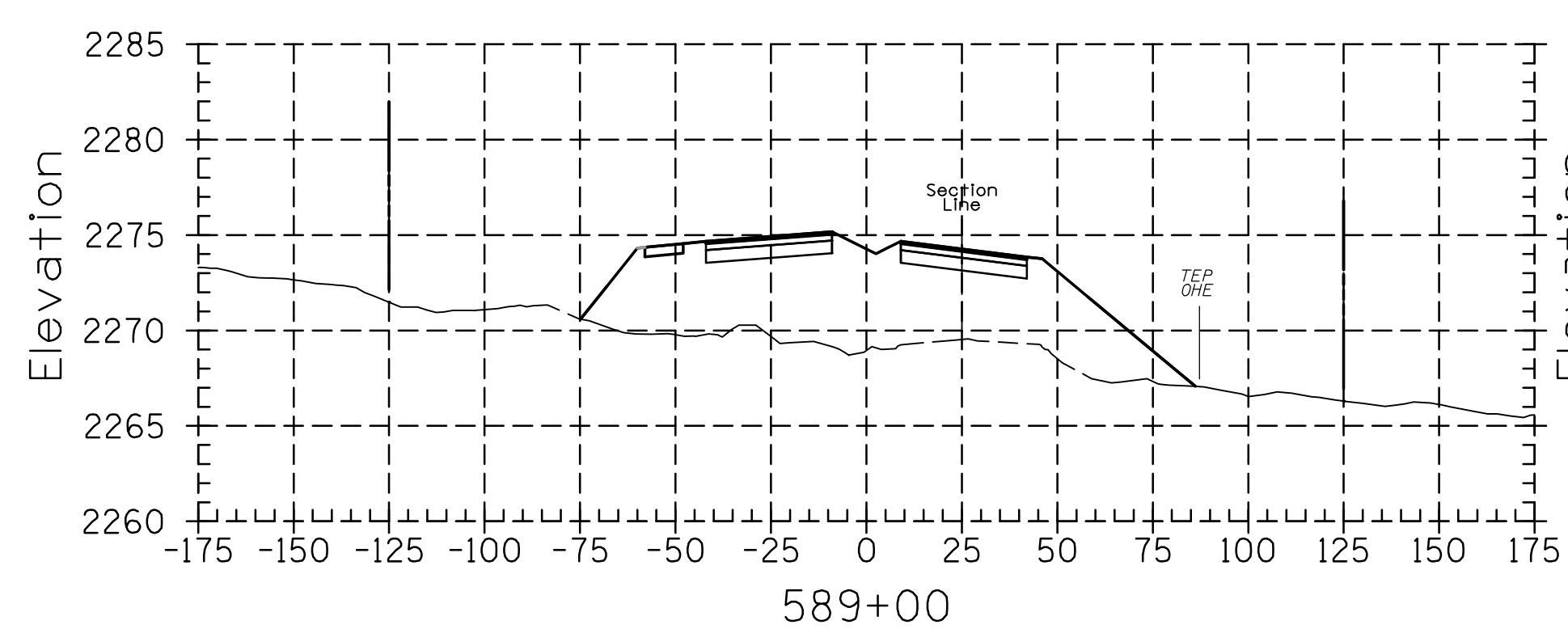
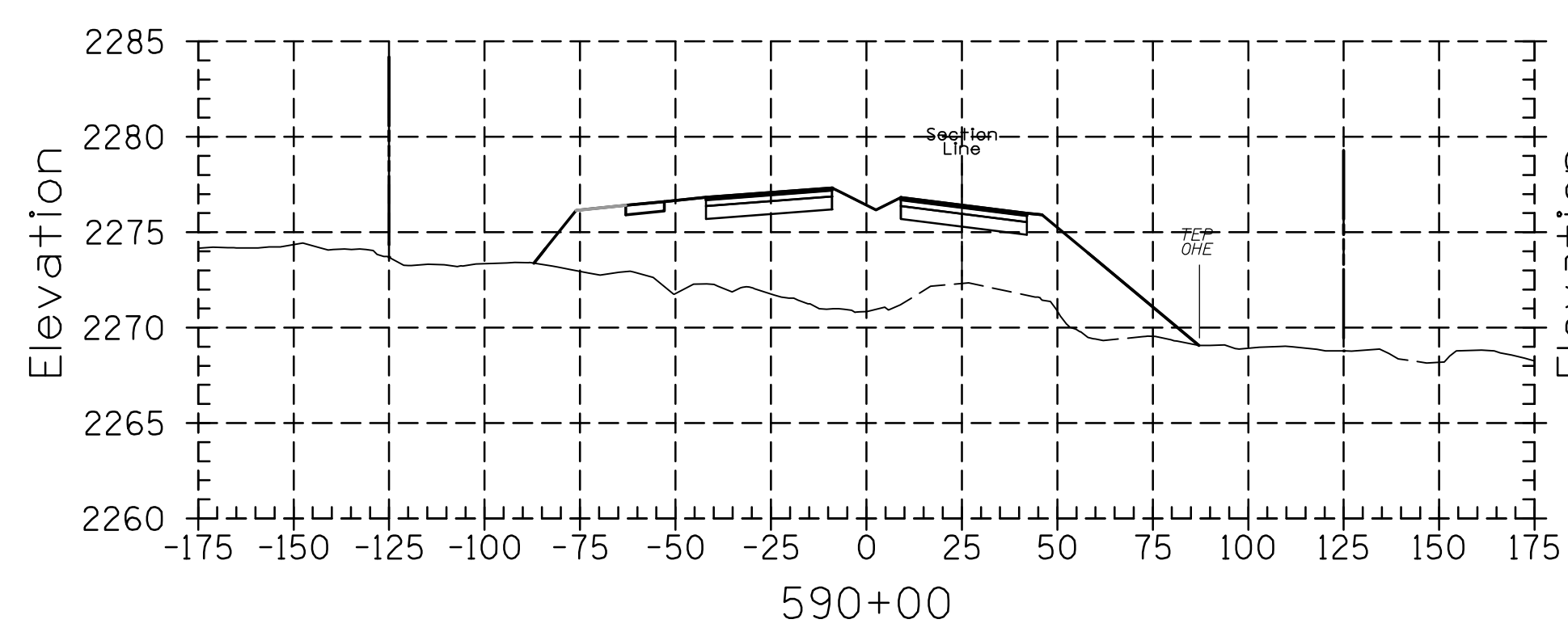
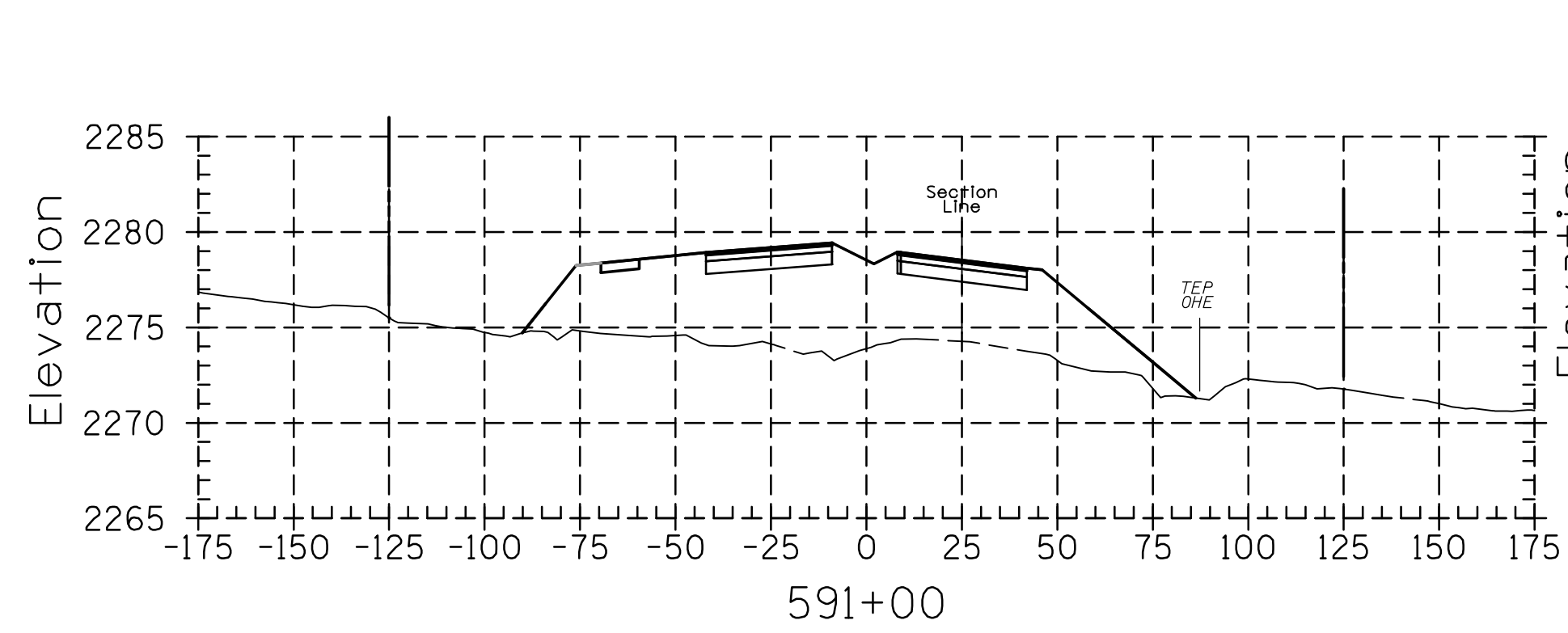
CROSS SECTIONS
 FOR
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AA	12/12



STA 588+00 TO STA 599+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS13 OF XS31

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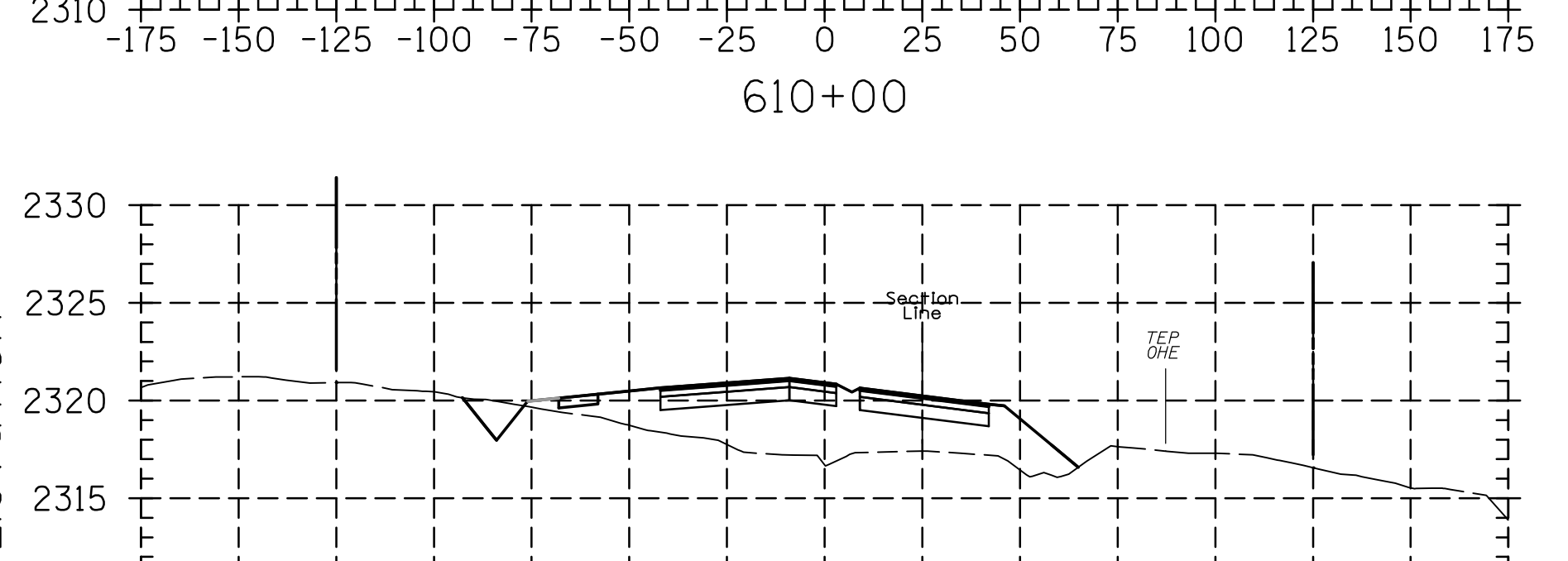
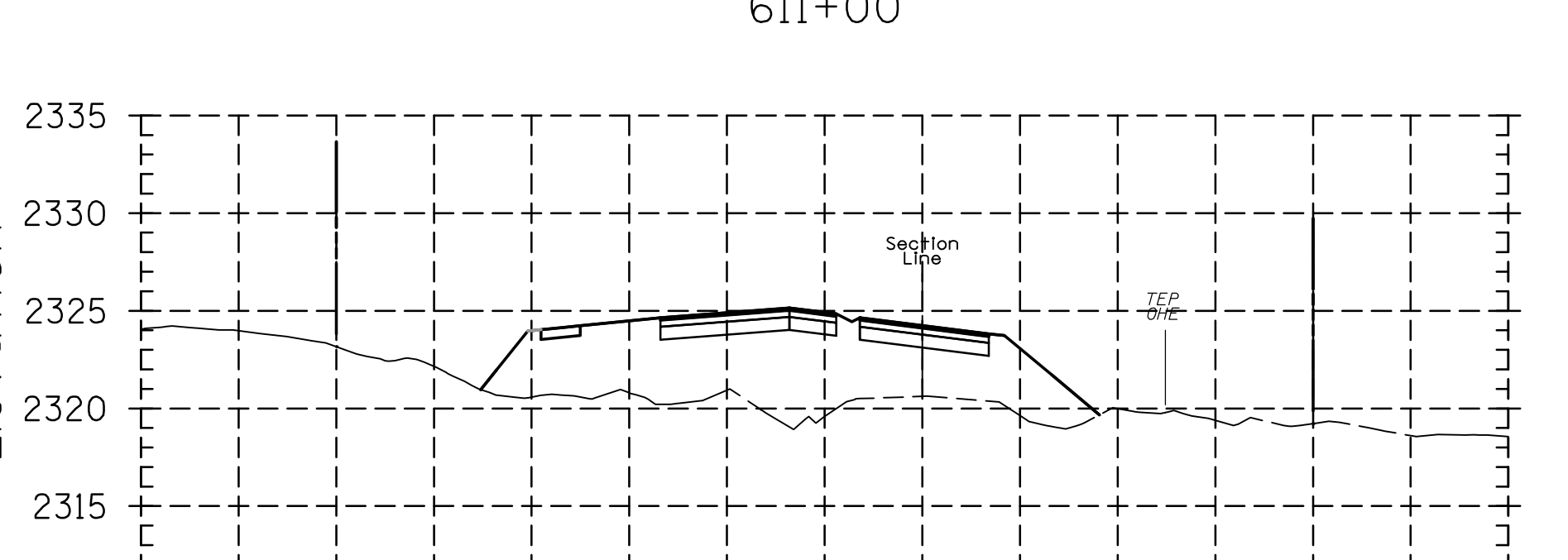
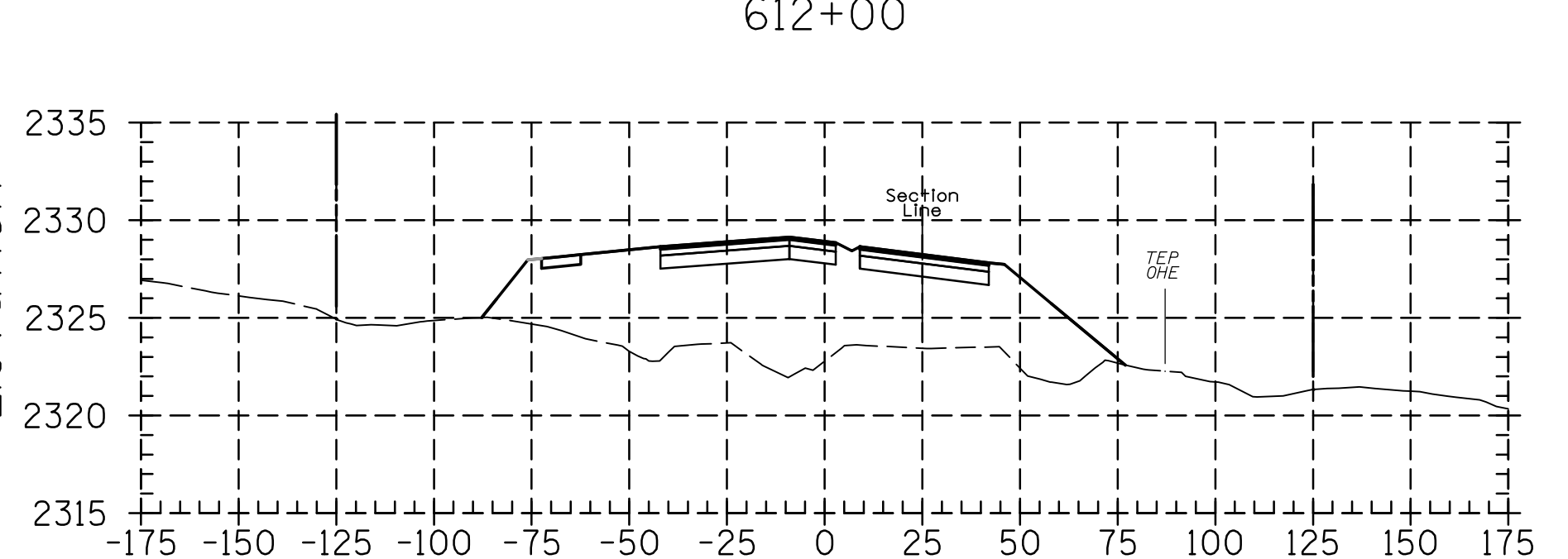
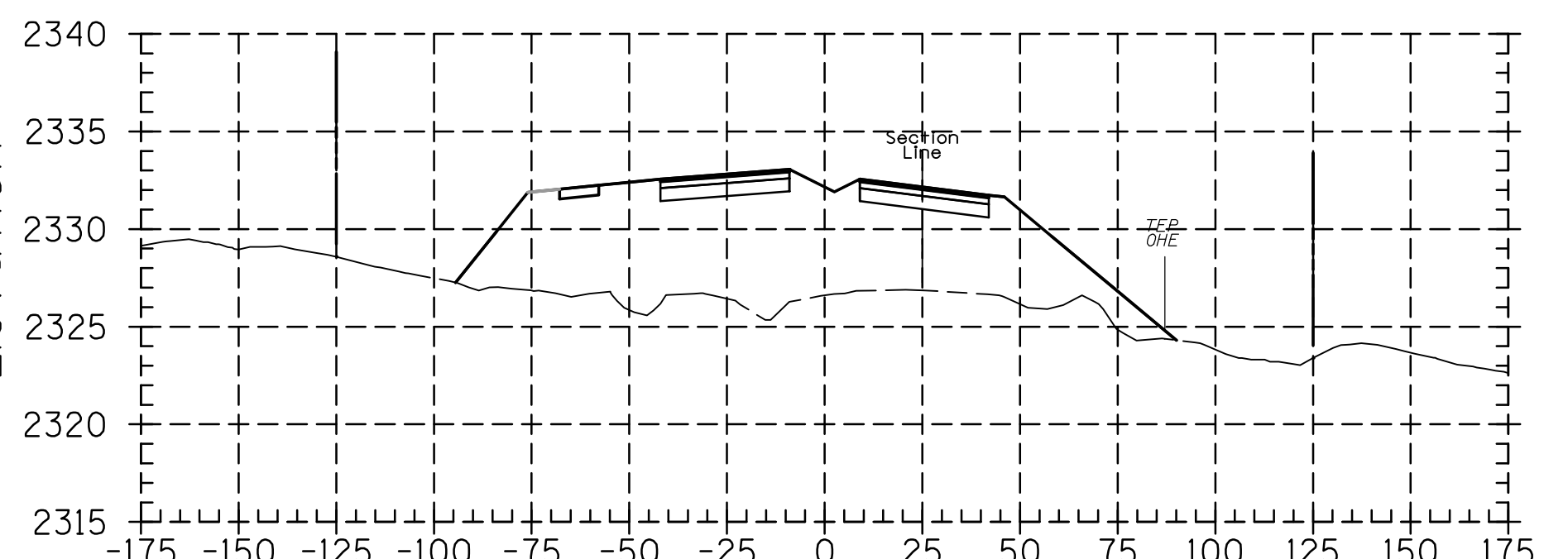
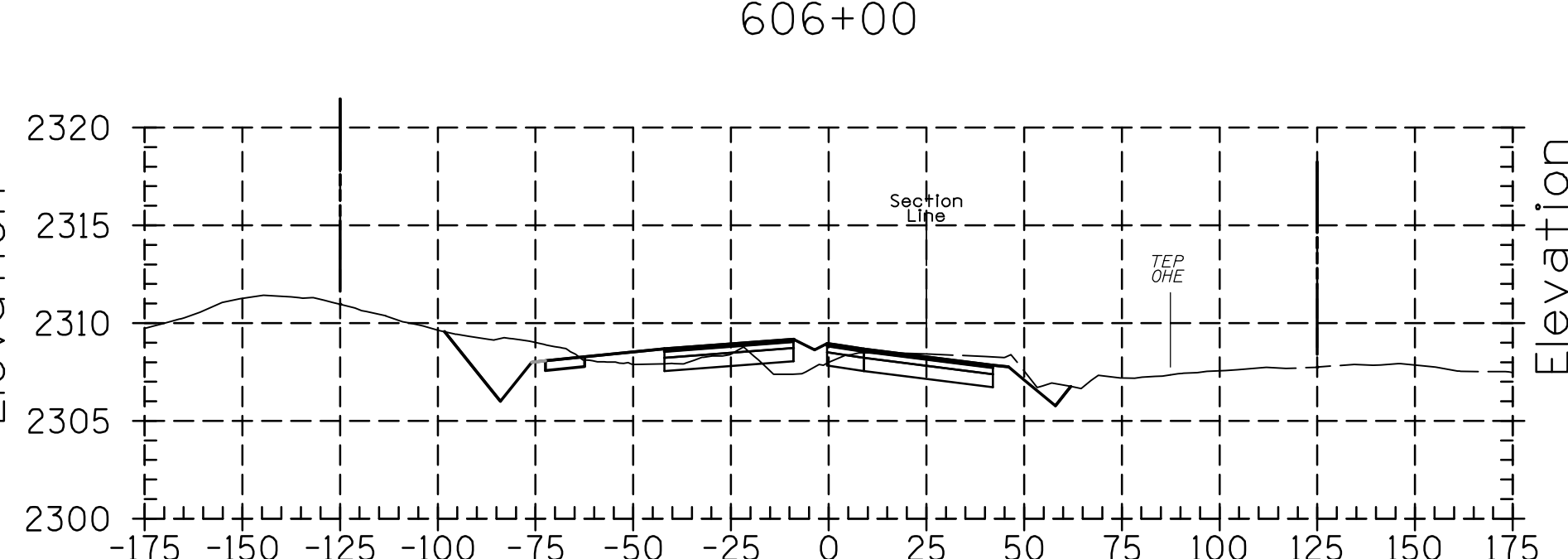
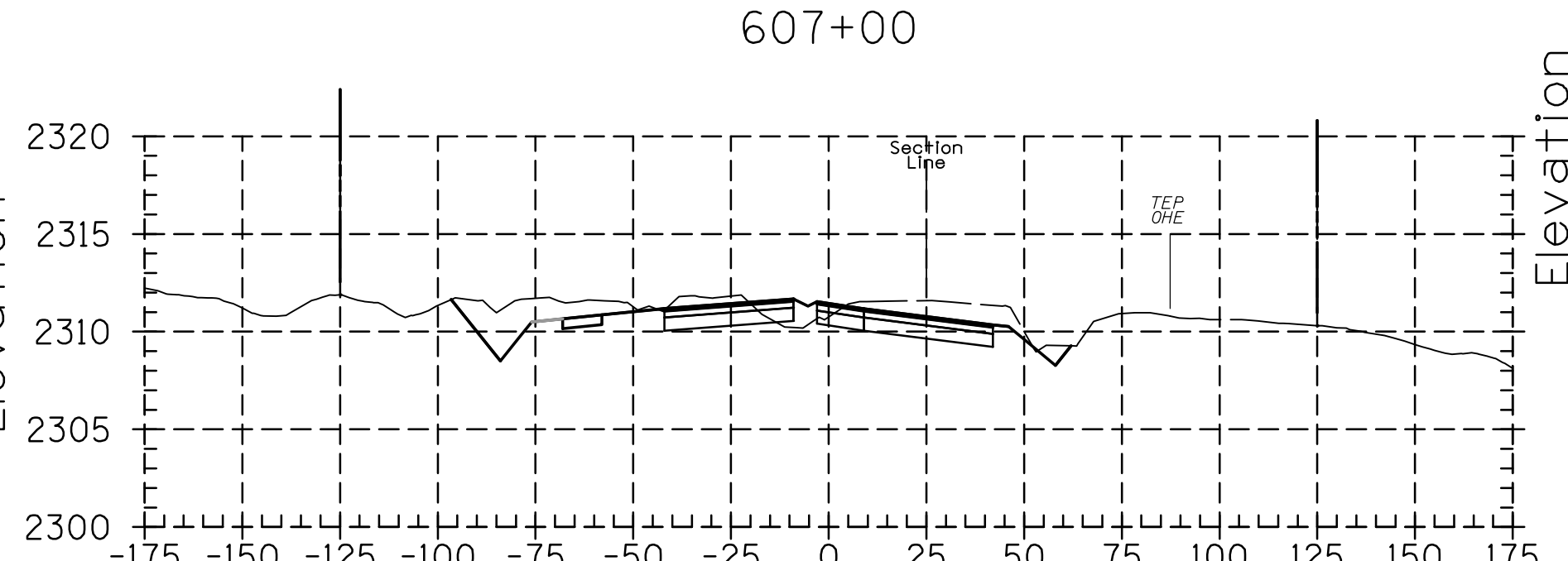
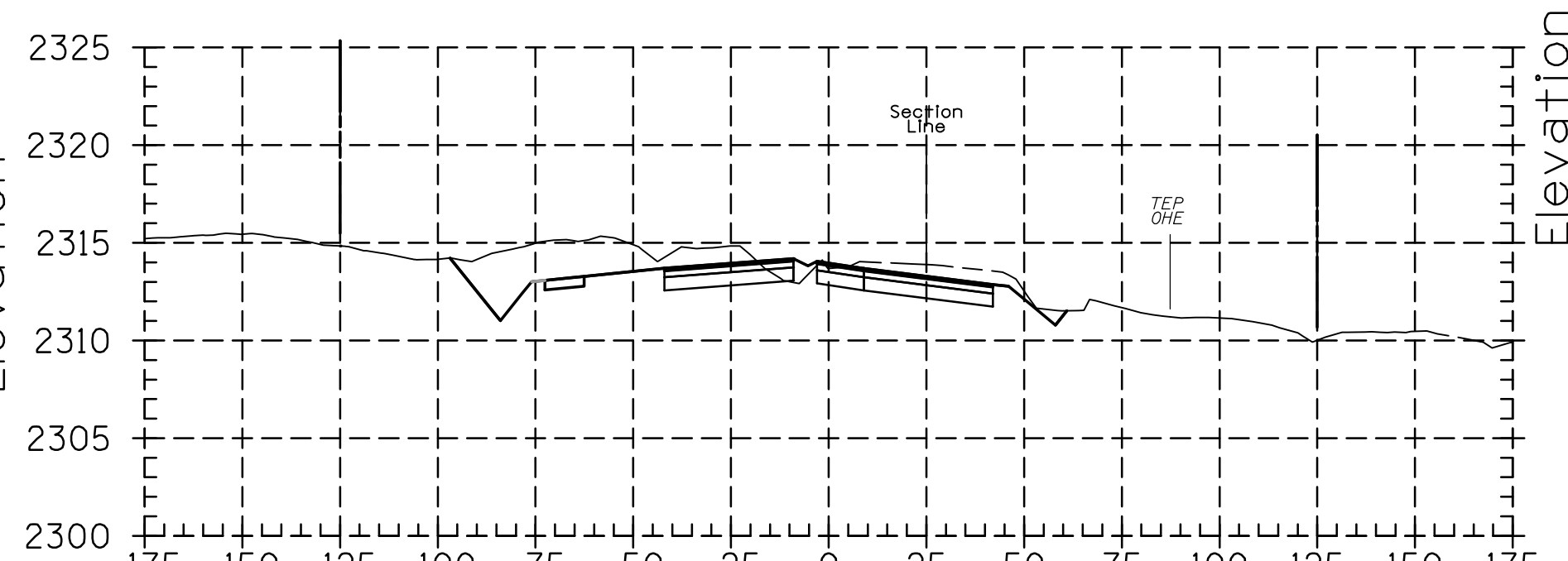
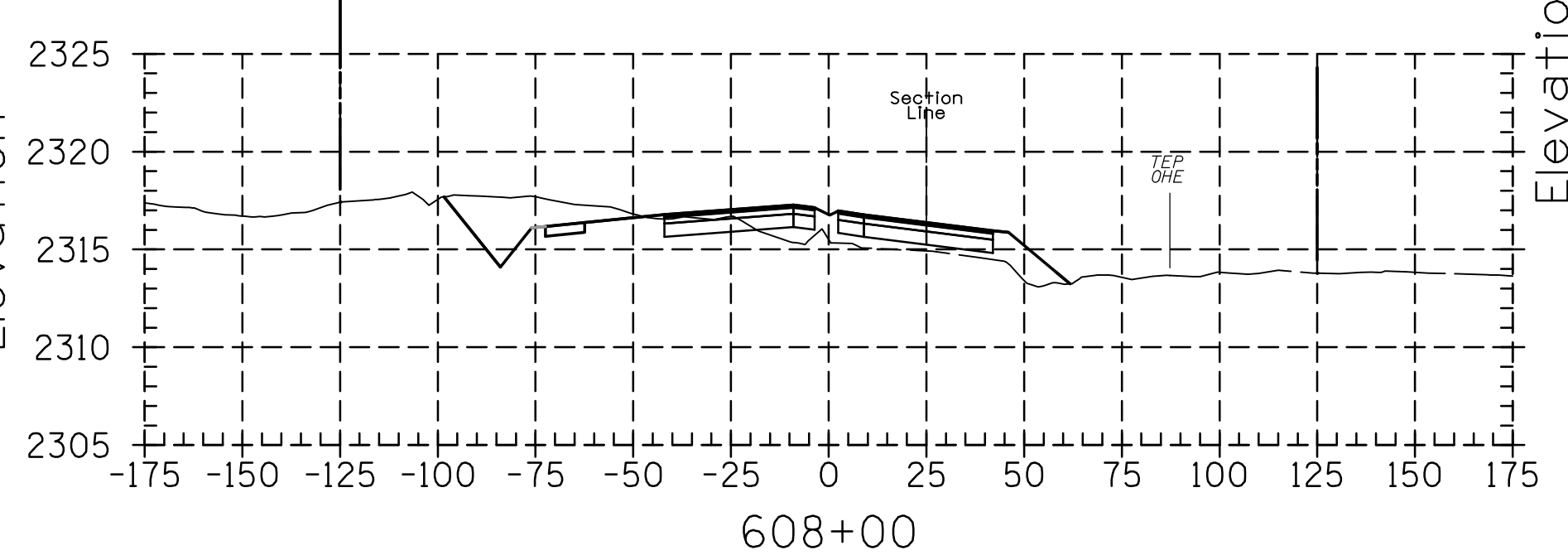
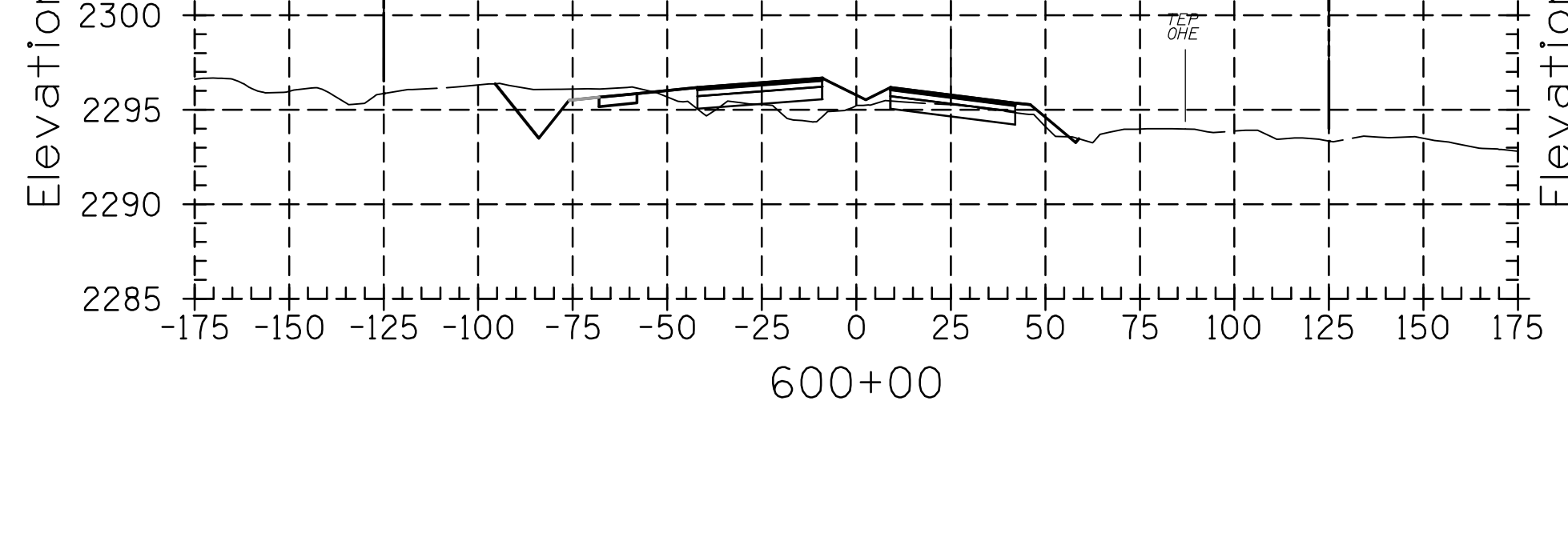
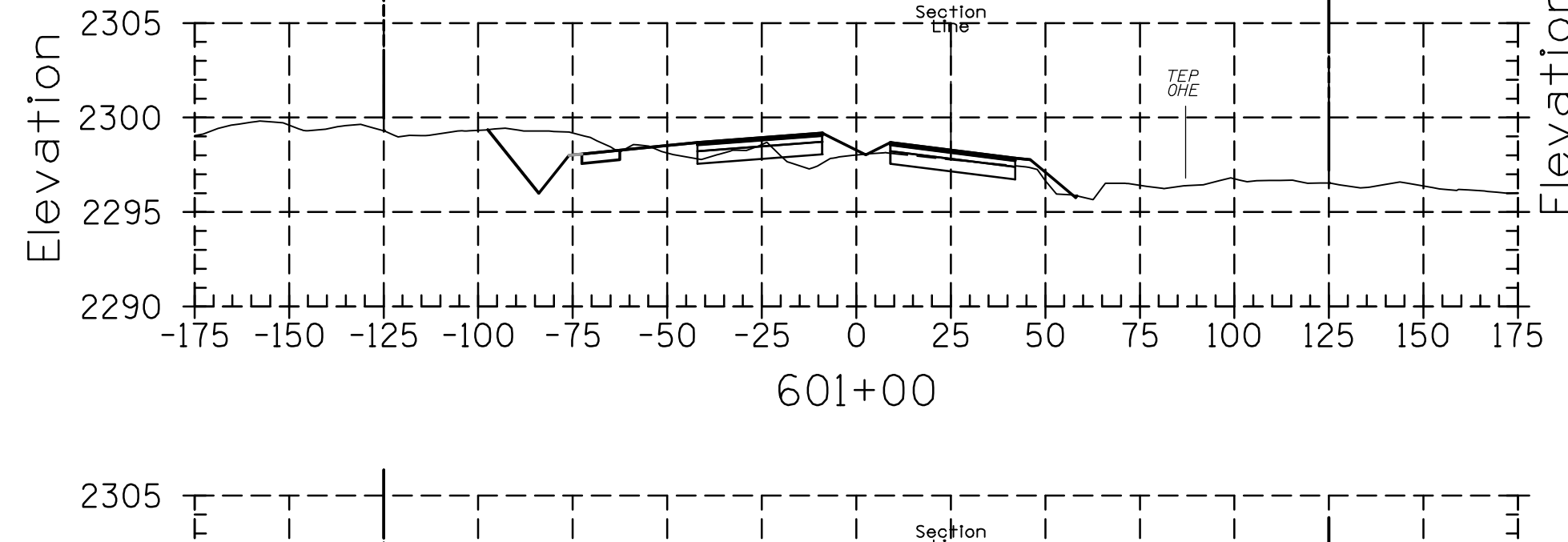
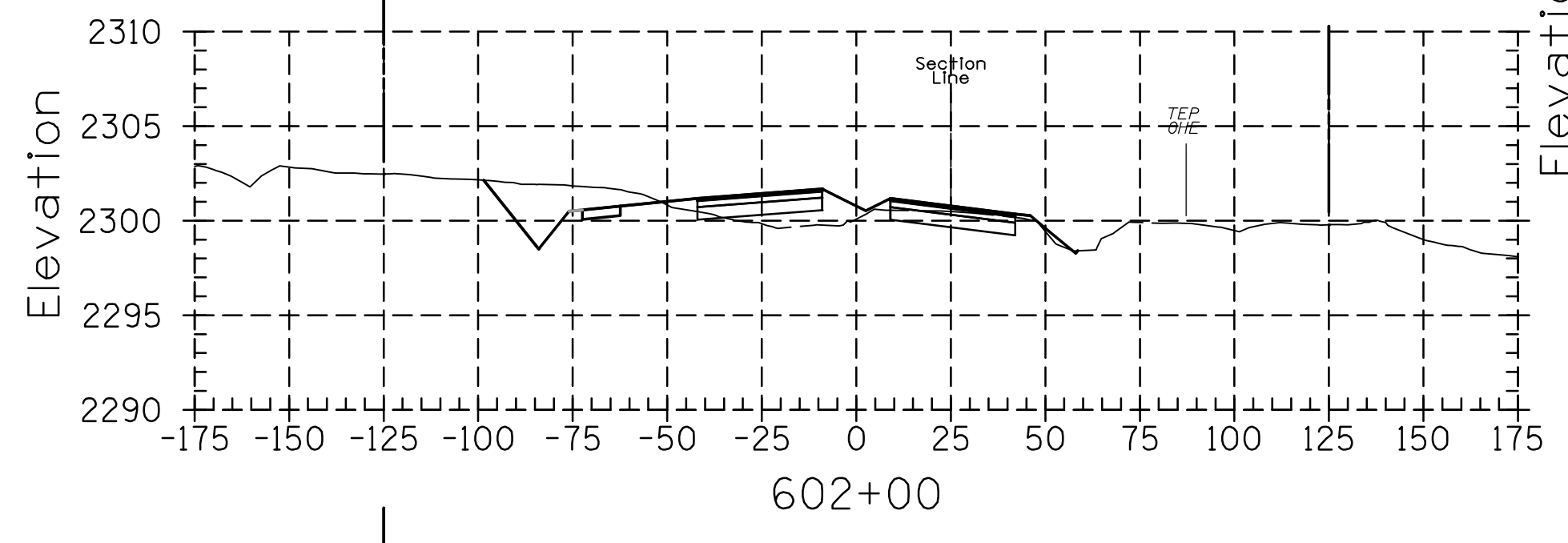
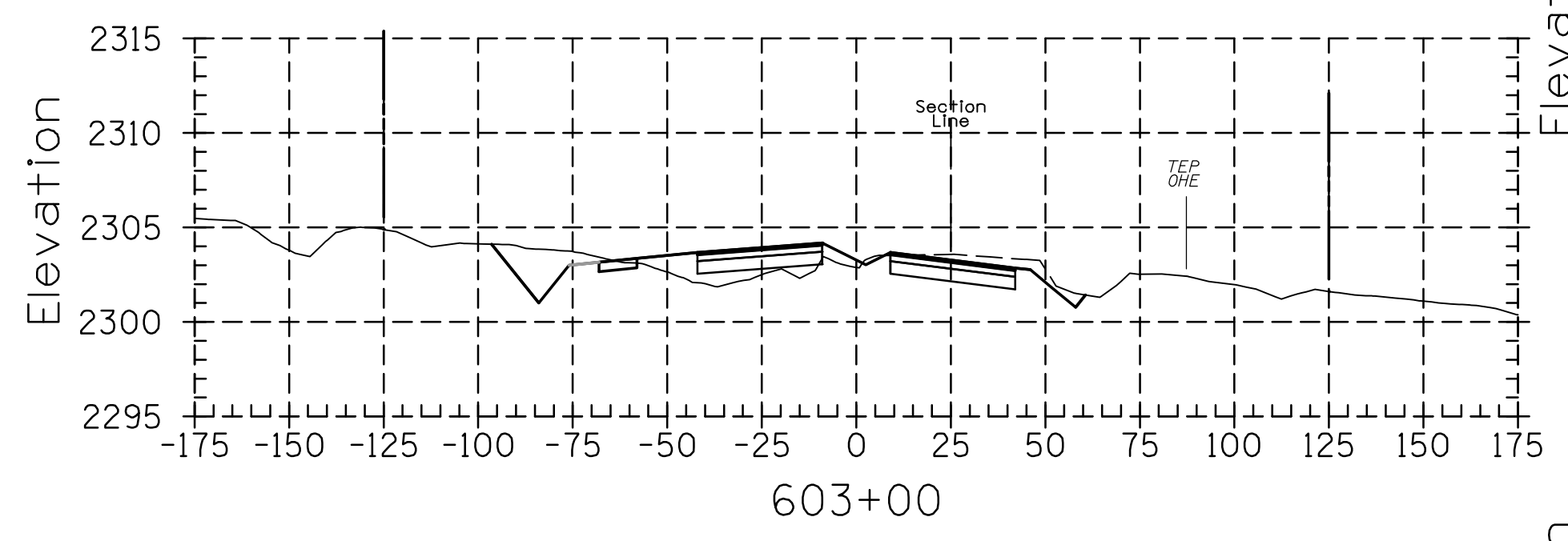
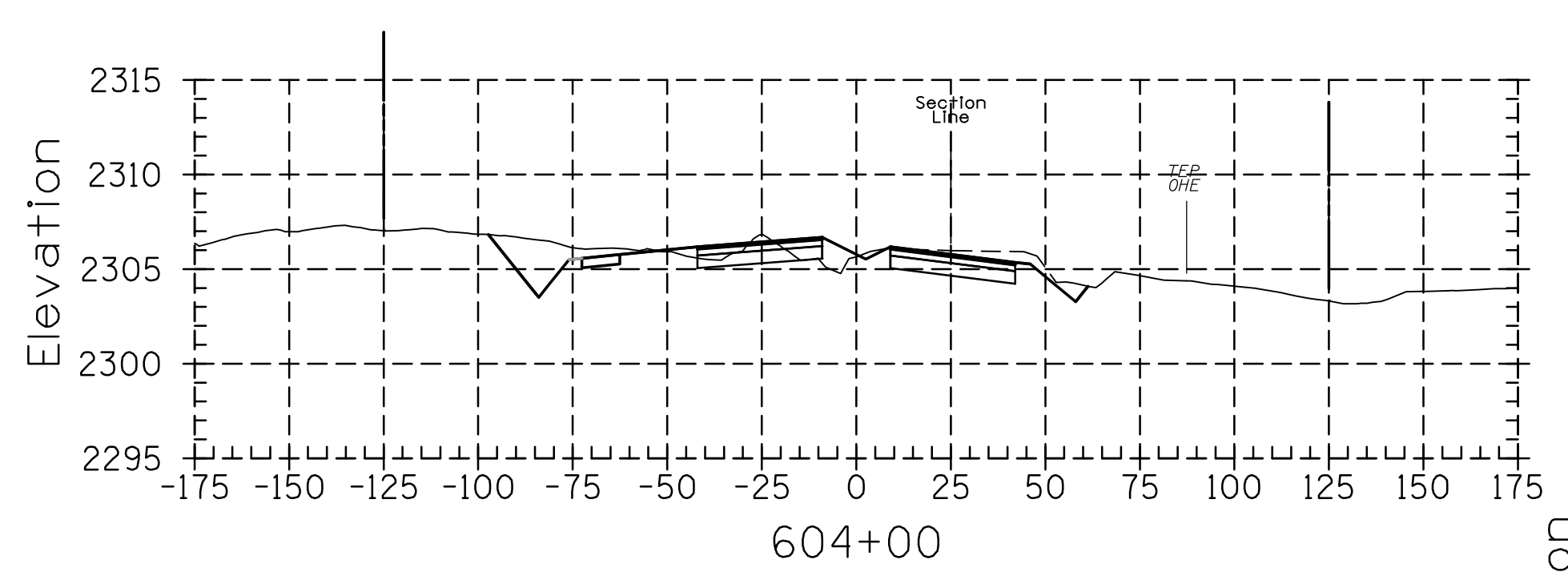
TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
FOR
TANGERINE ROAD
STA 588+00 TO 599+00
TANGERINE ROAD

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STA 600+00 TO STA 612+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS14 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

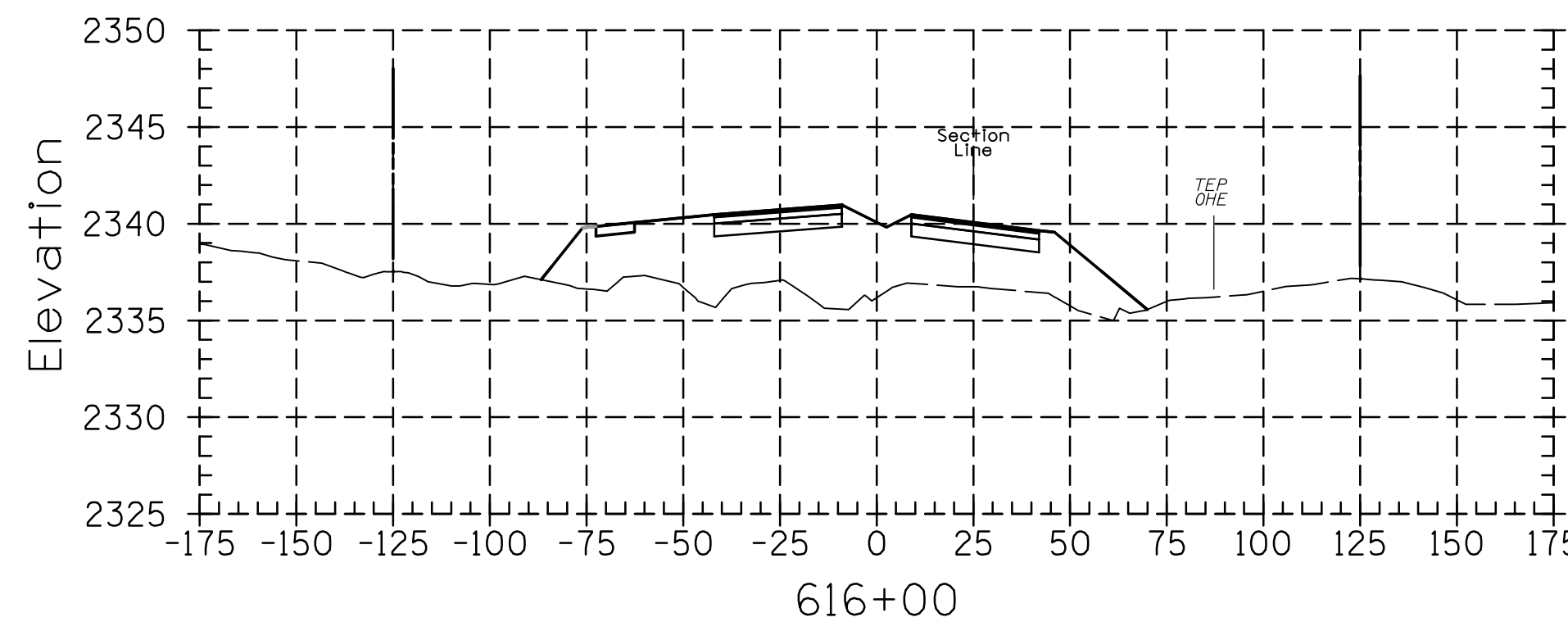
CROSS SECTIONS FOR
TANGERINE ROAD
 STA 600+00 TO 612+00
 TANGERINE ROAD

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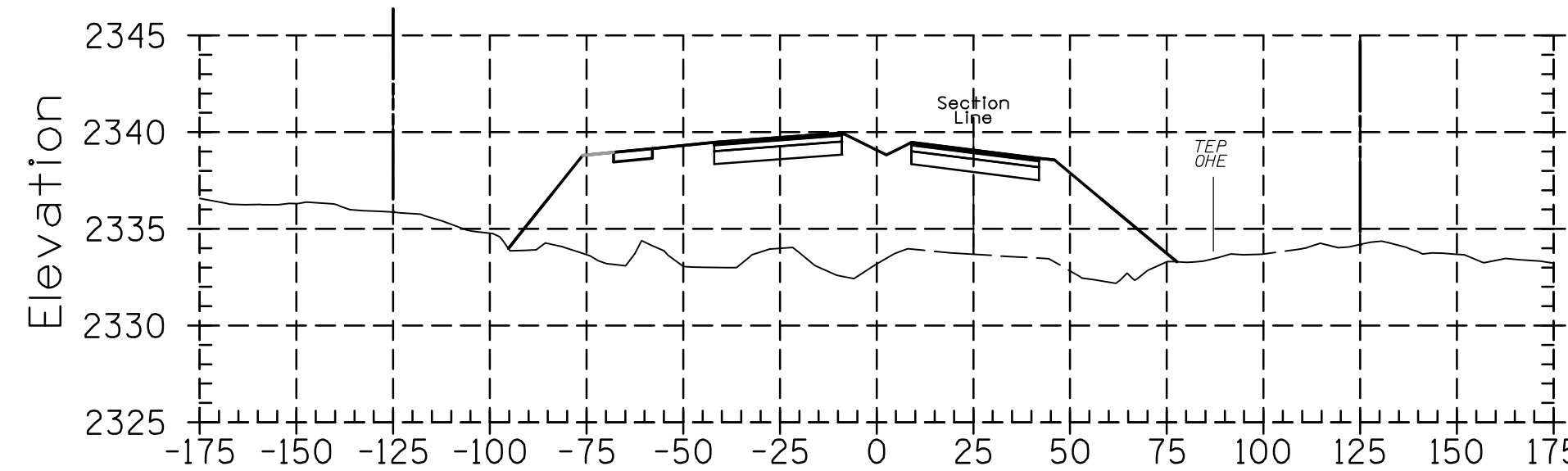
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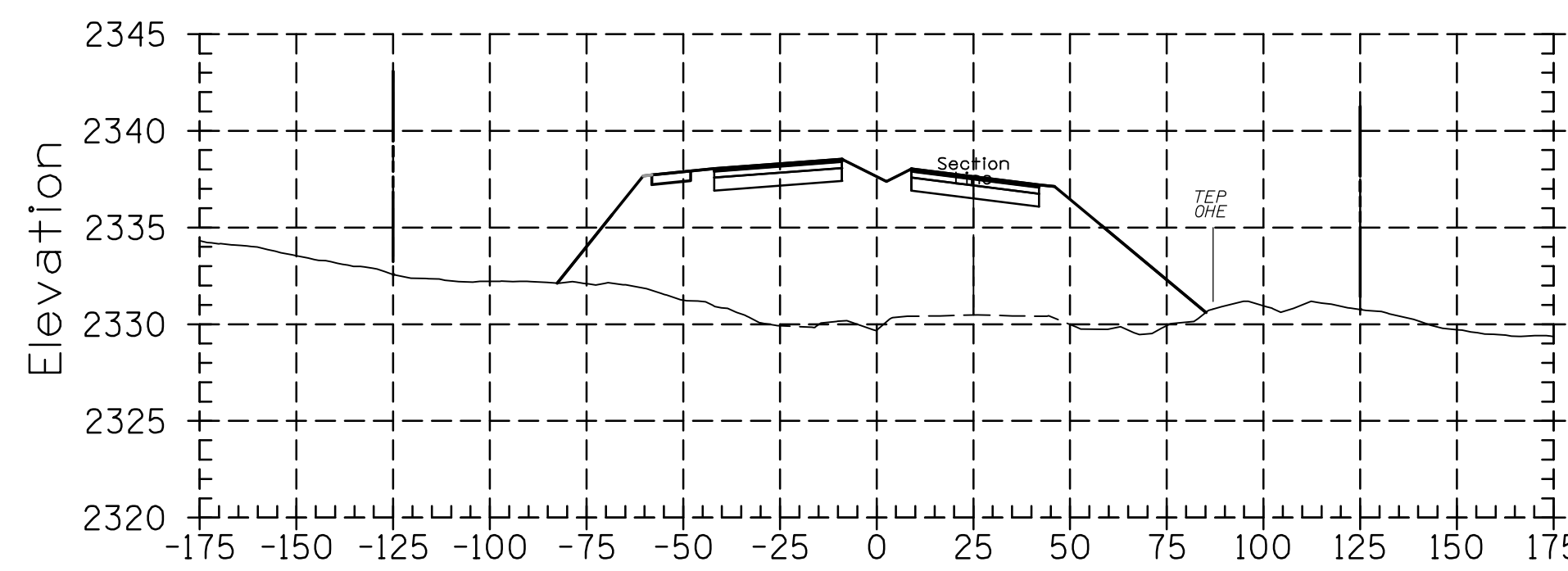
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PROJ. ENG.:	DATE
AA	12/12



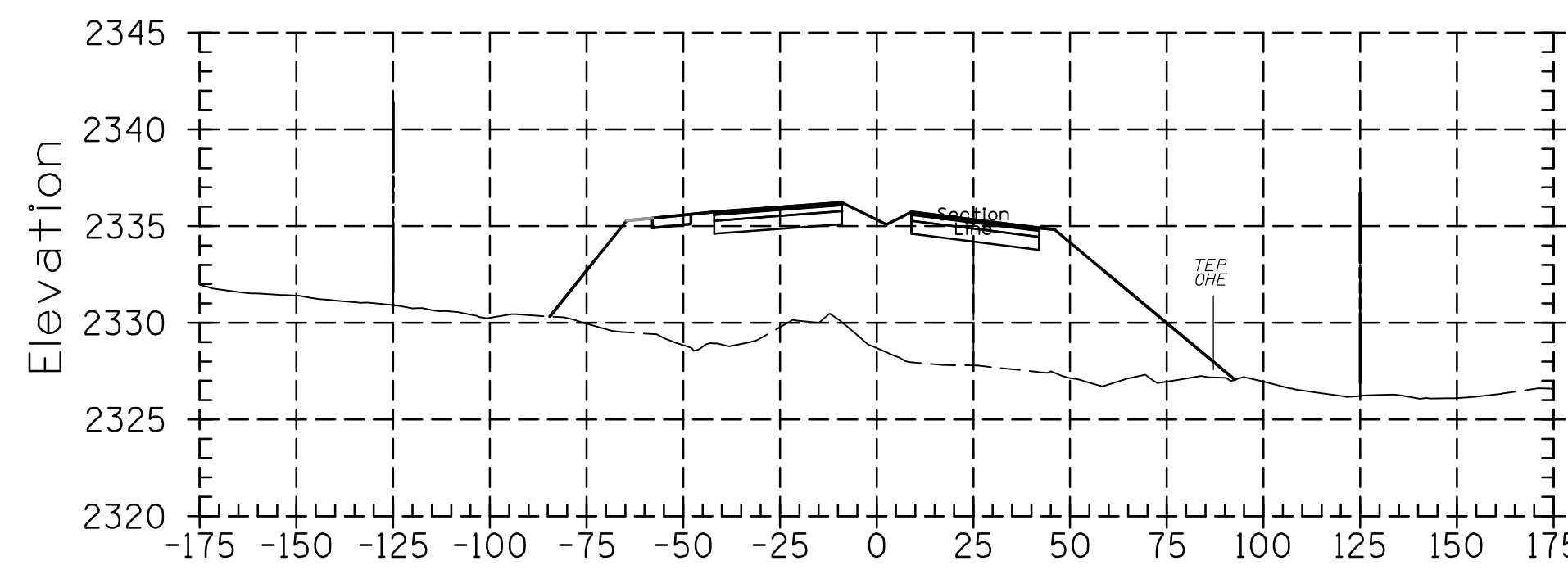
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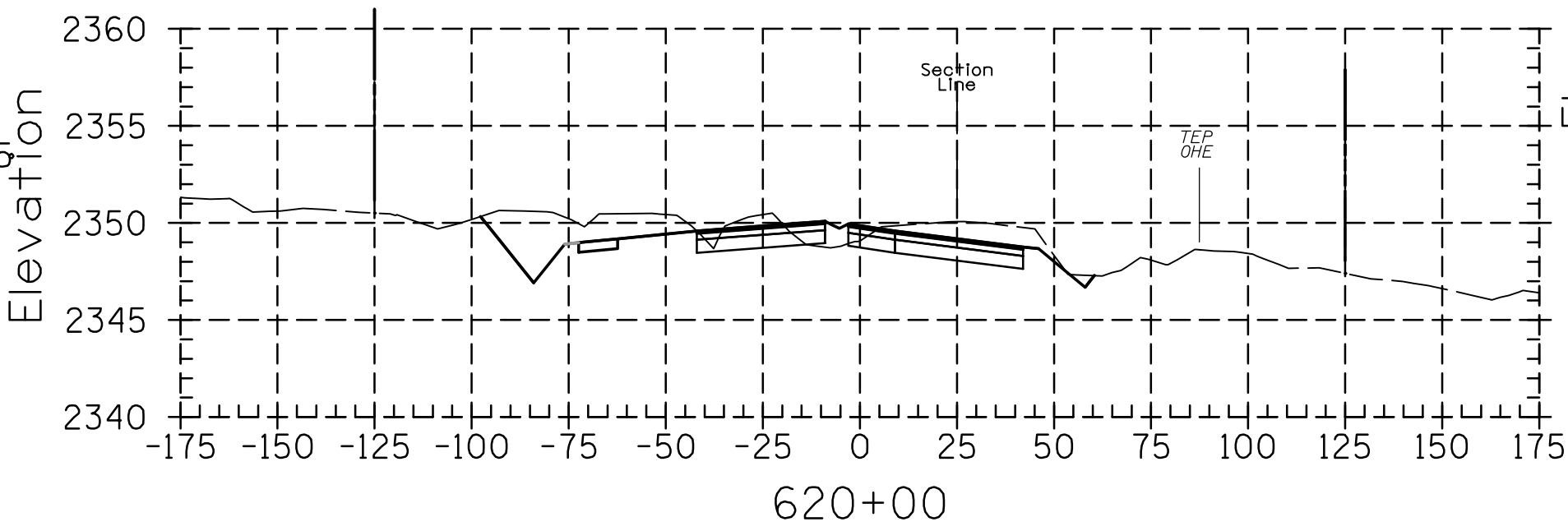
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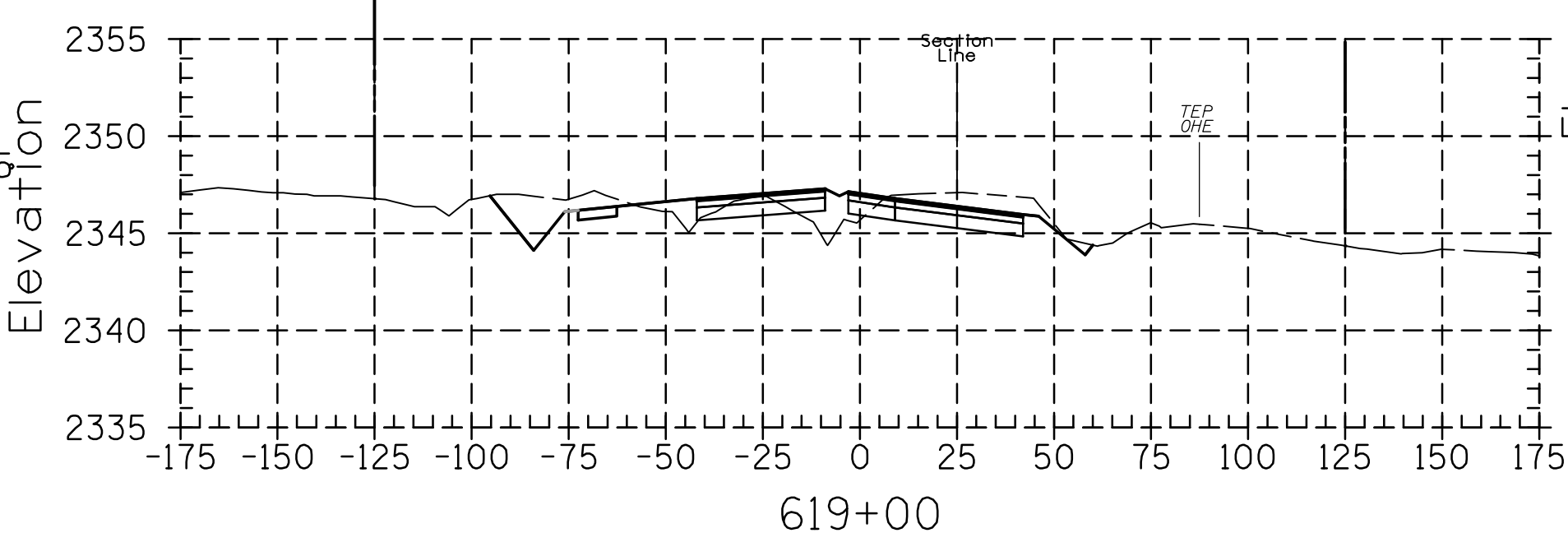
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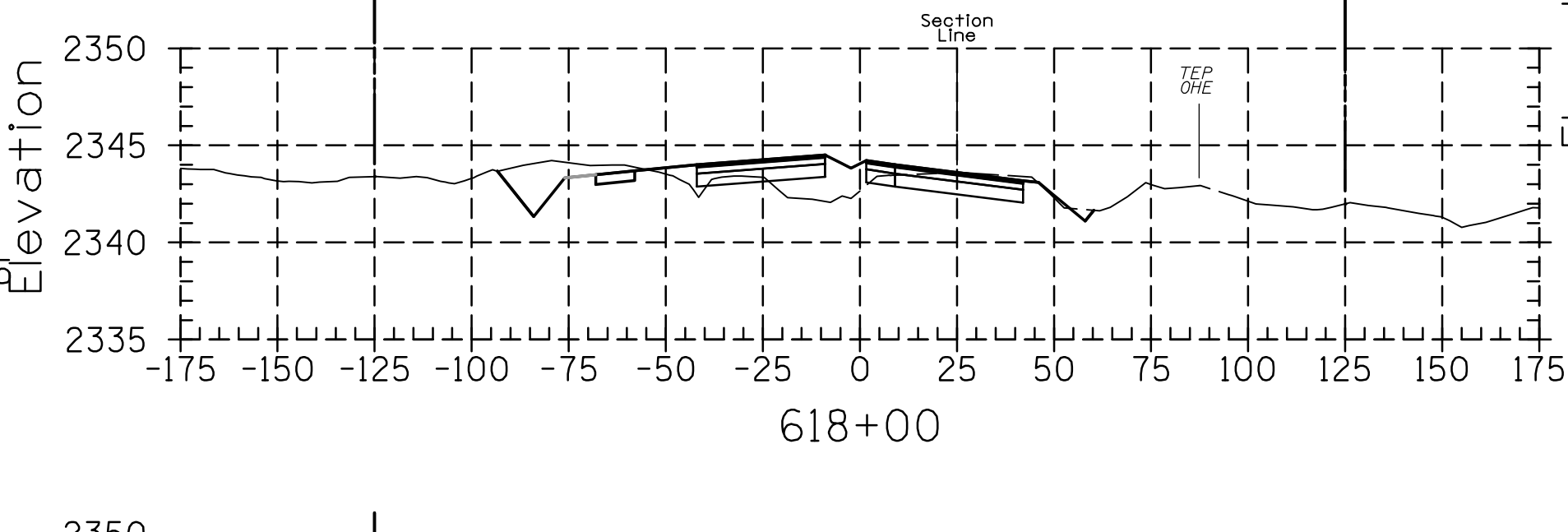
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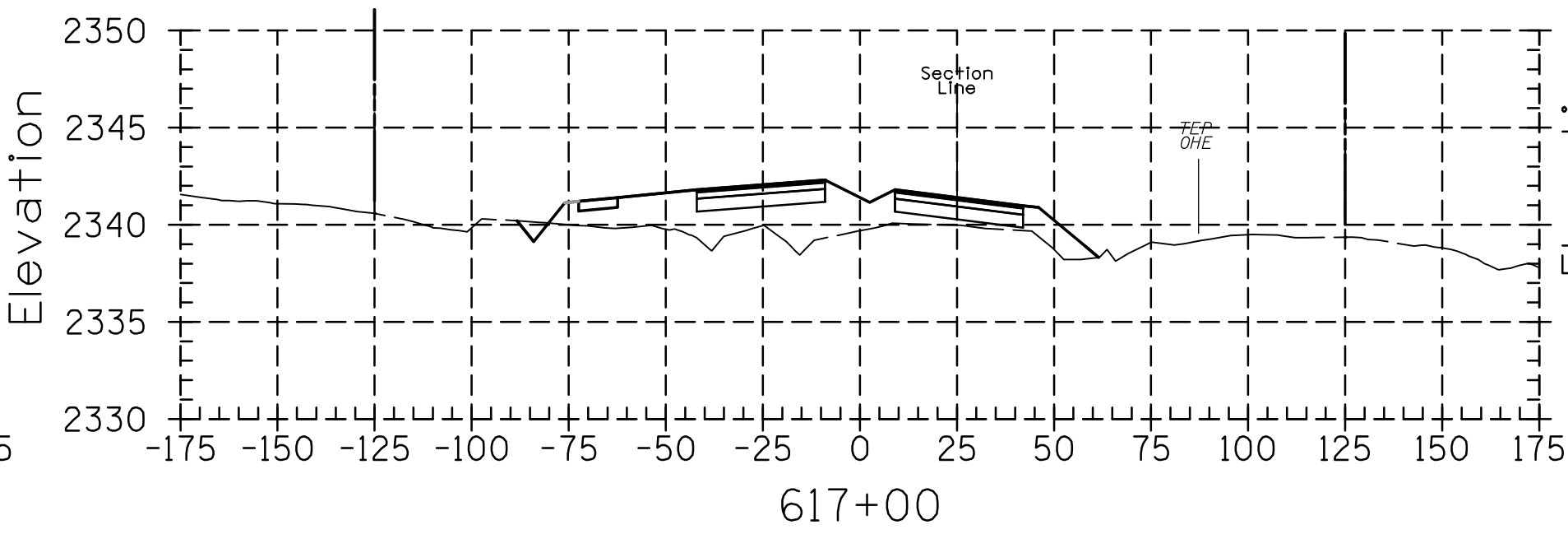
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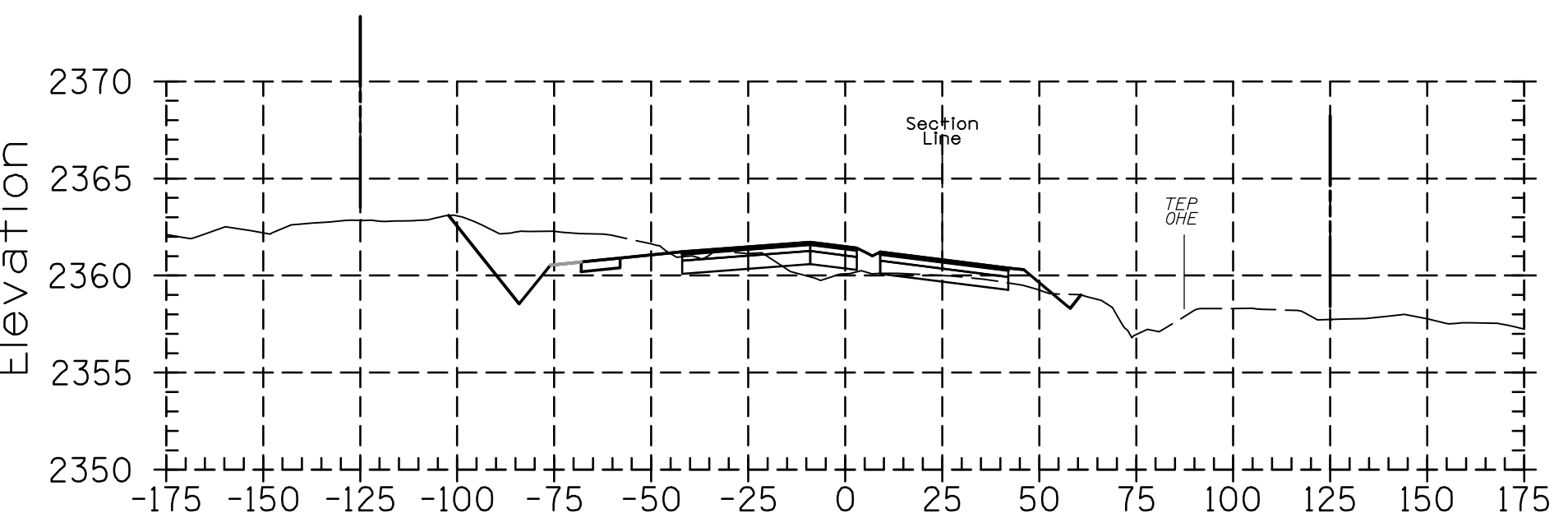
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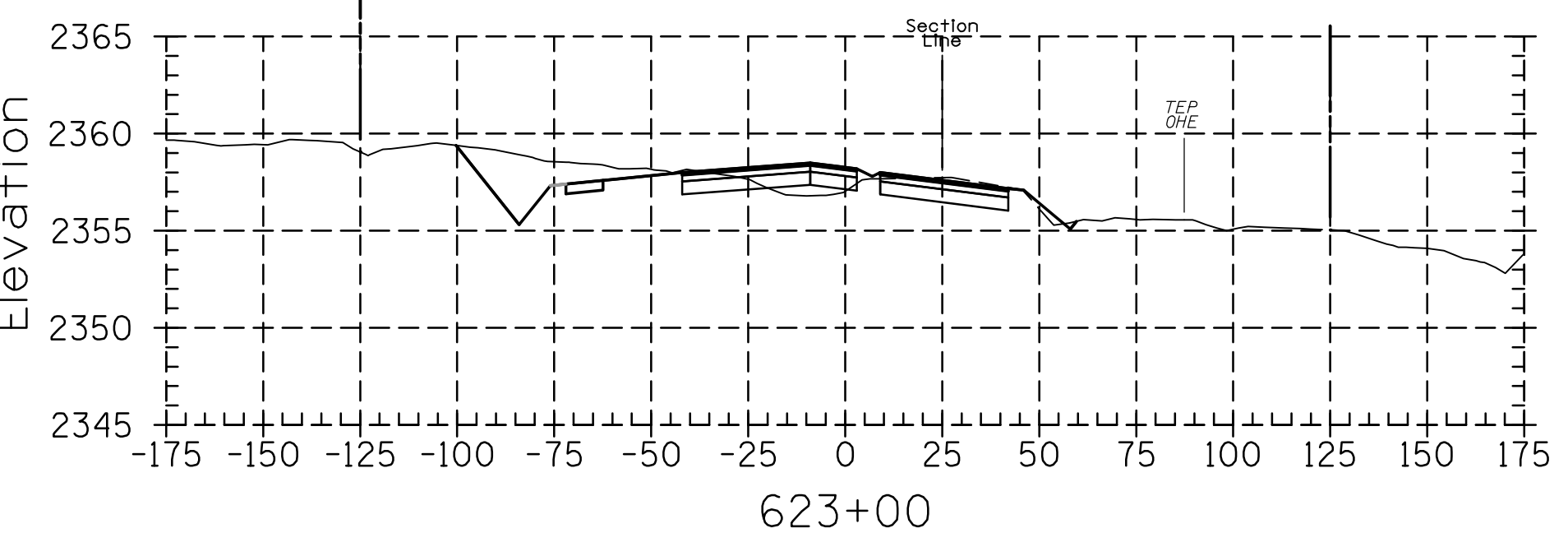
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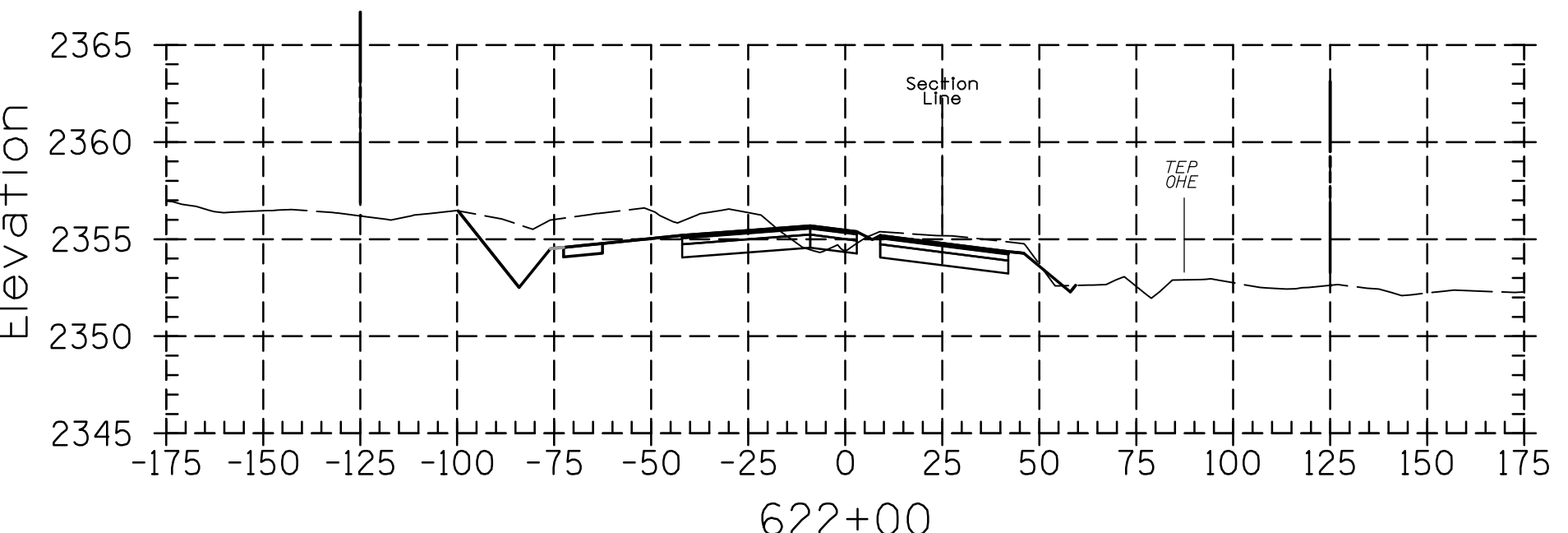
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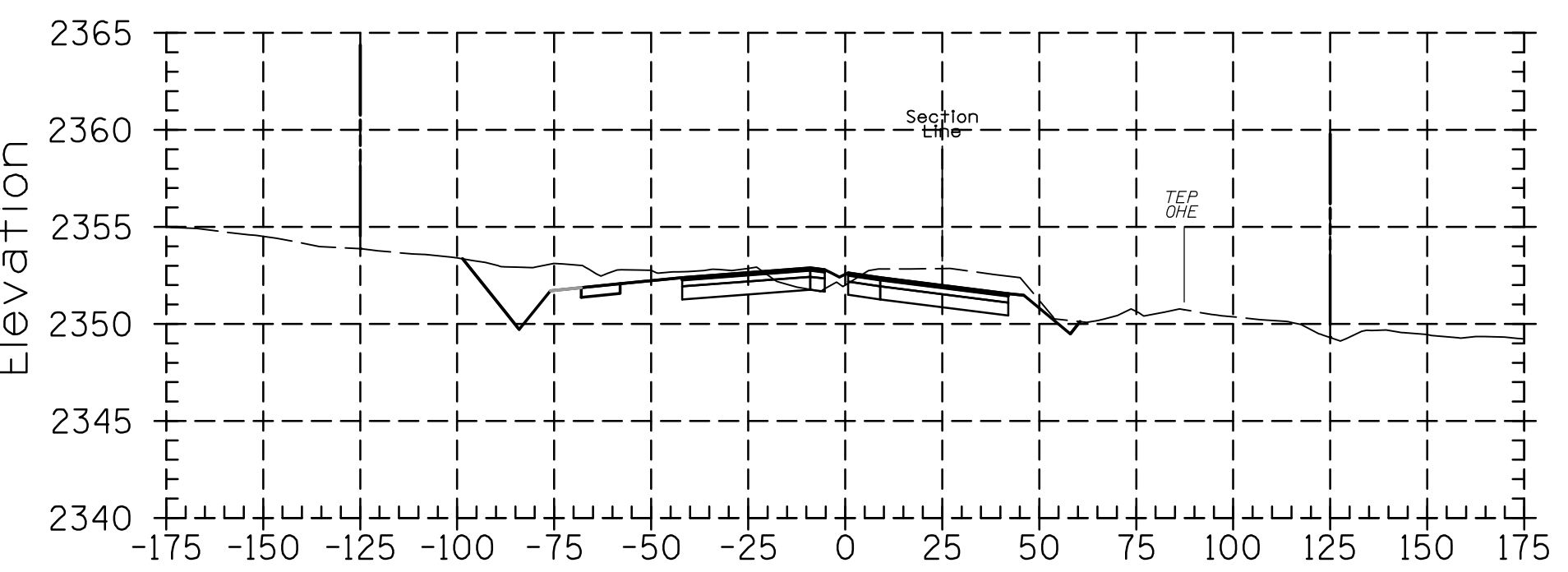
624+00



623+00



622+00



621+00

STA 613+00 TO STA 624+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS15 OF XS31

PAGE OF

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
STA 613+00 TO 624+00
TANGERINE ROAD

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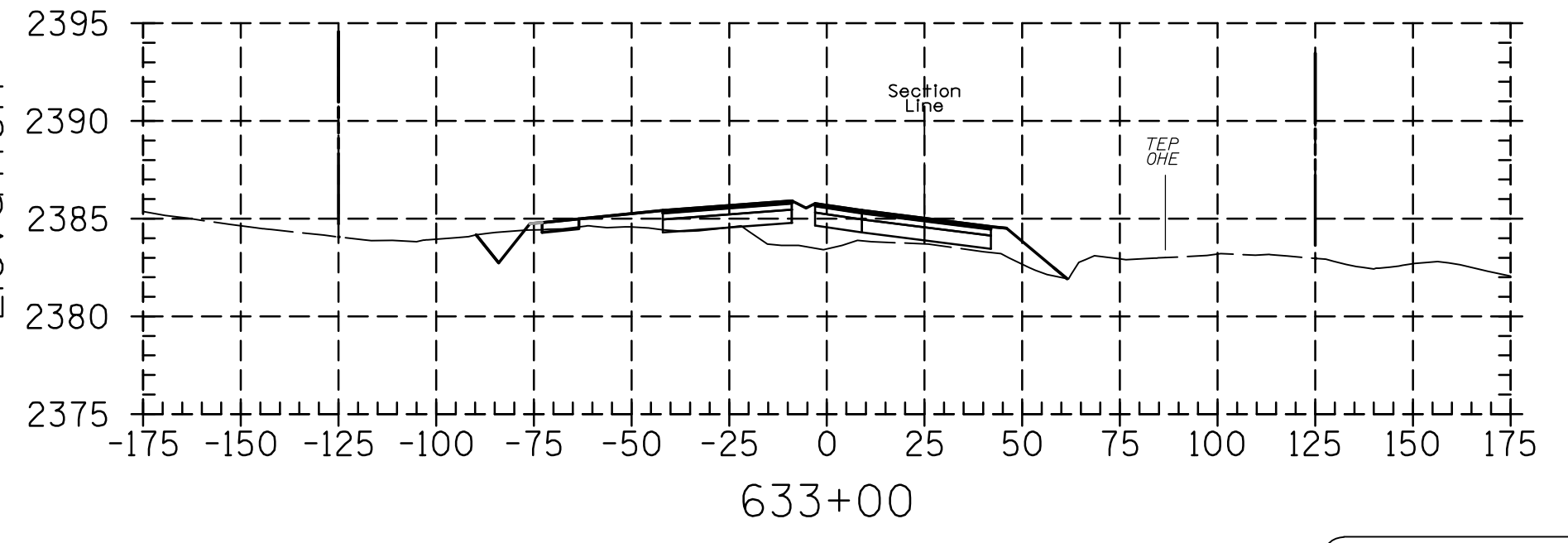
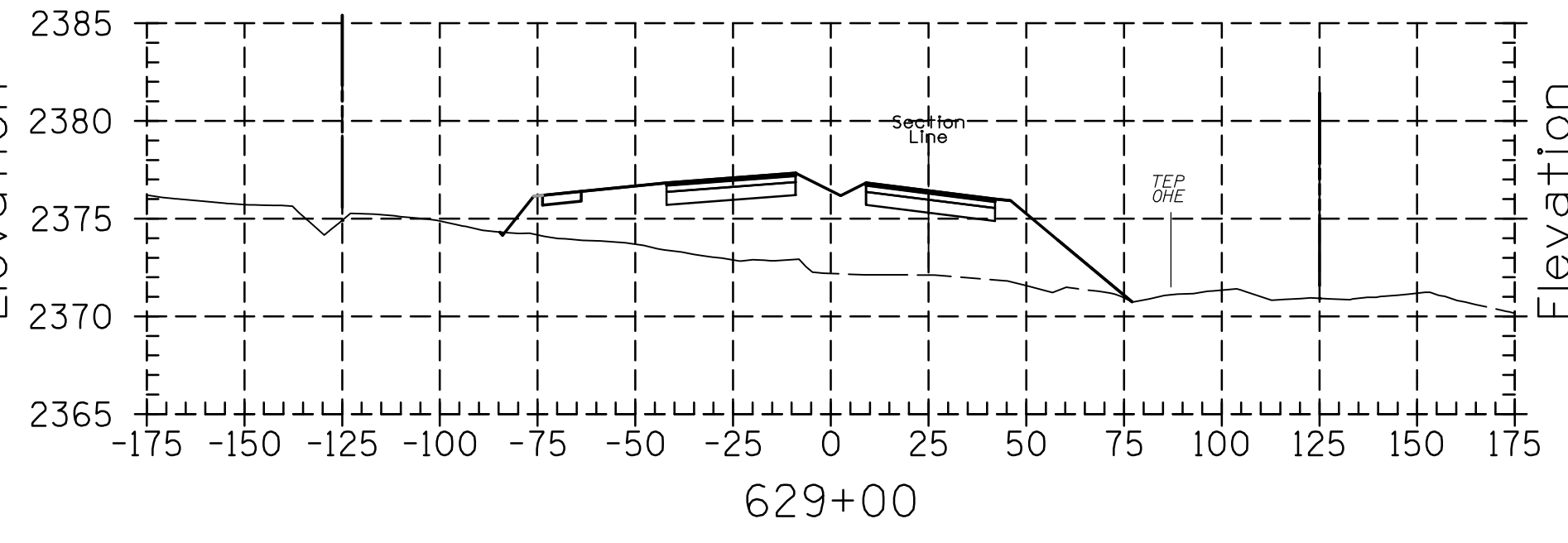
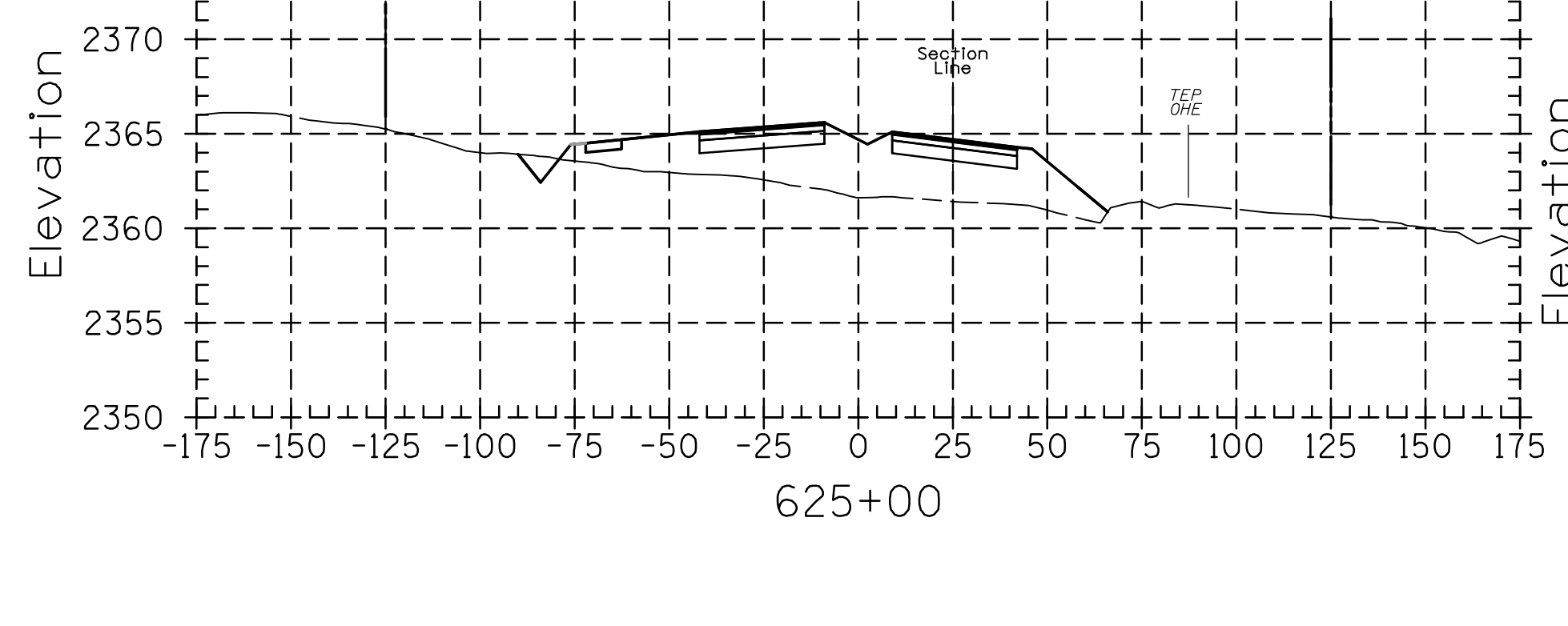
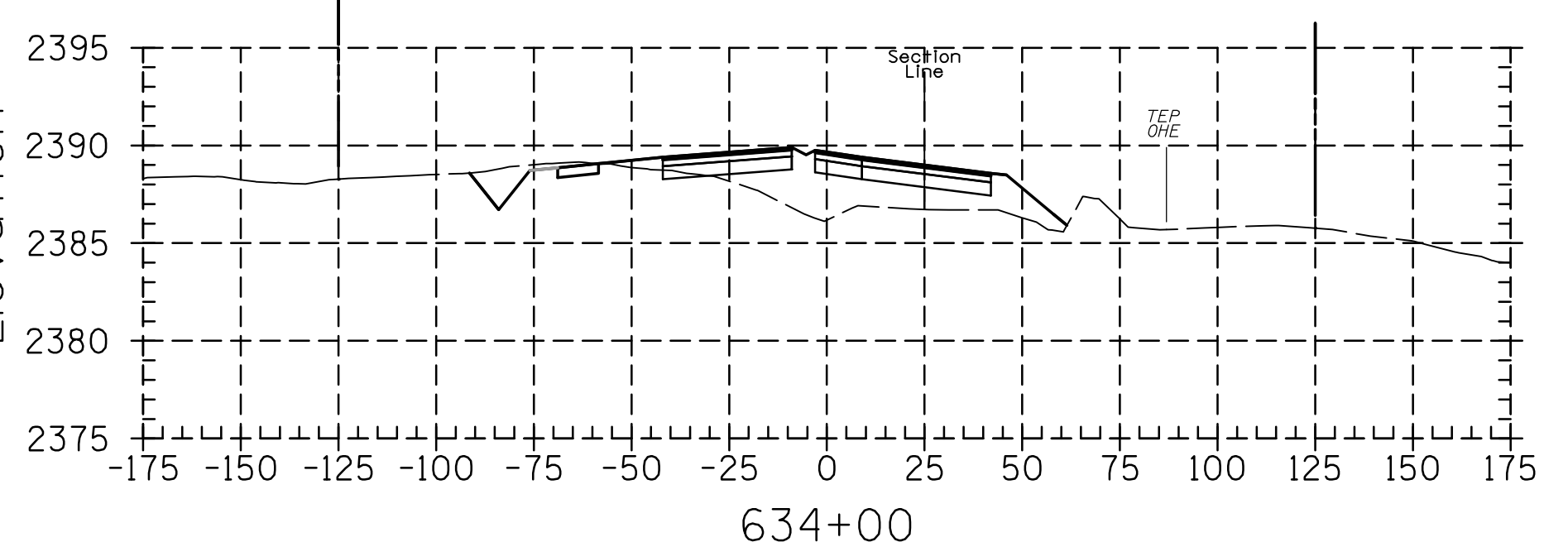
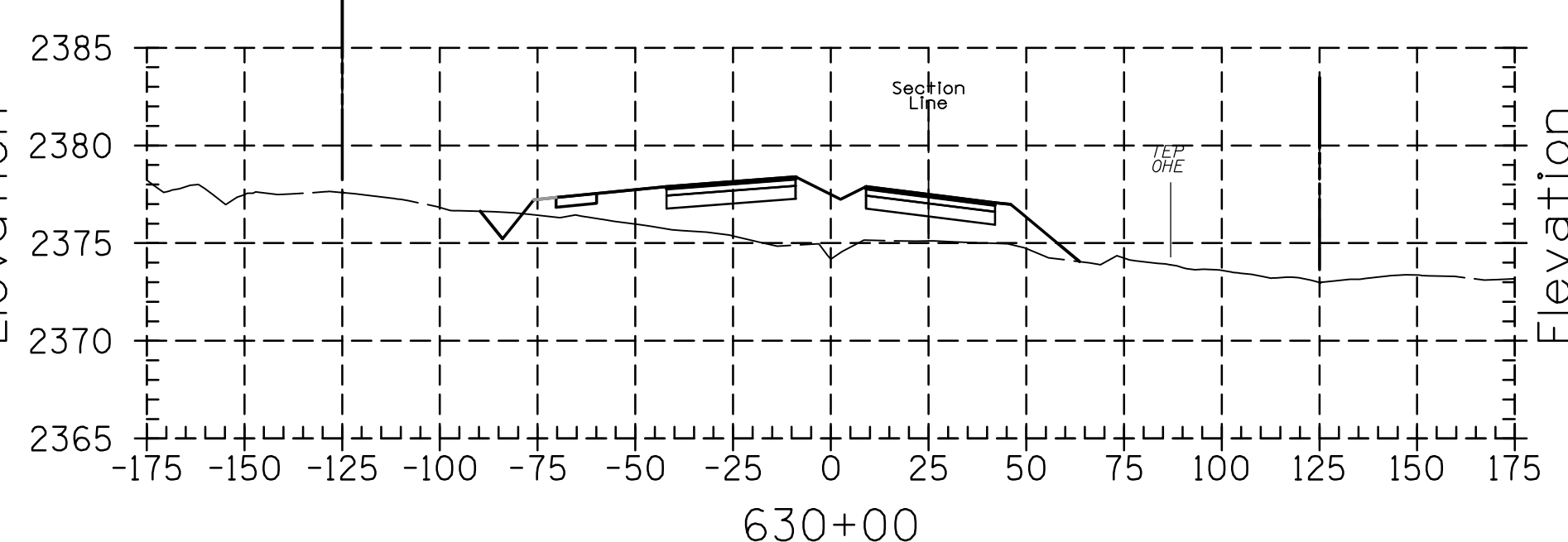
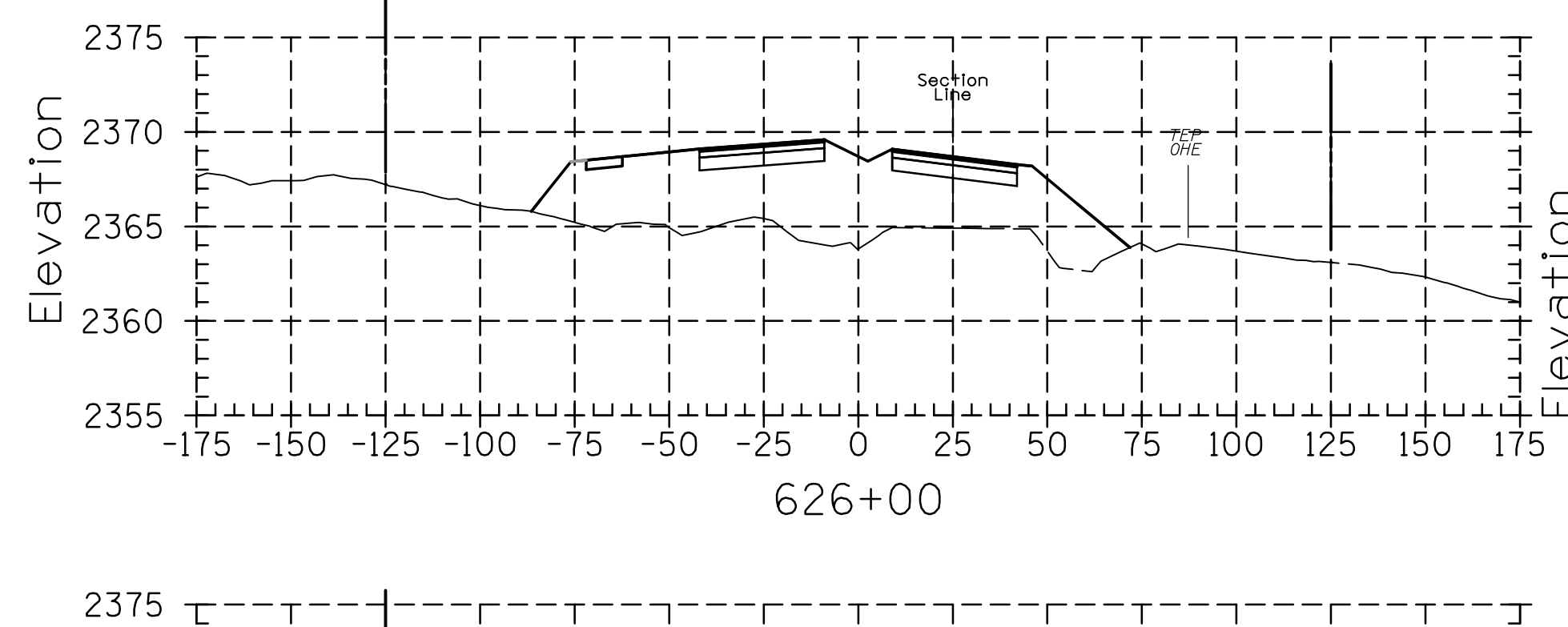
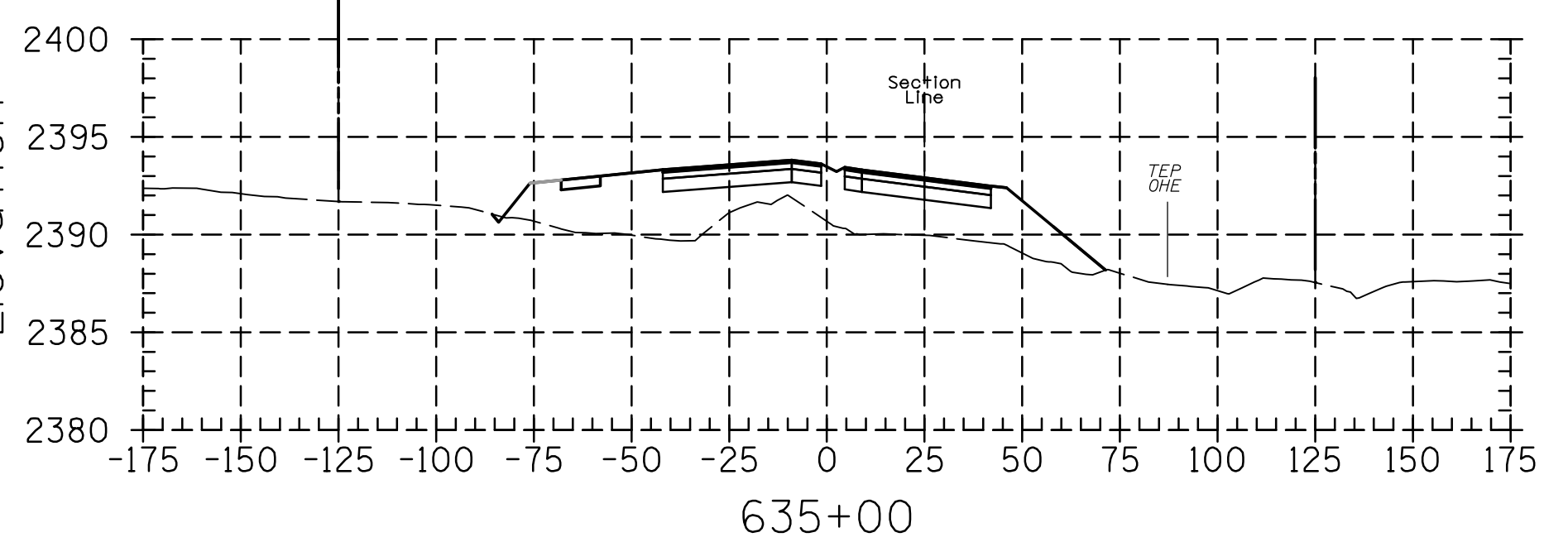
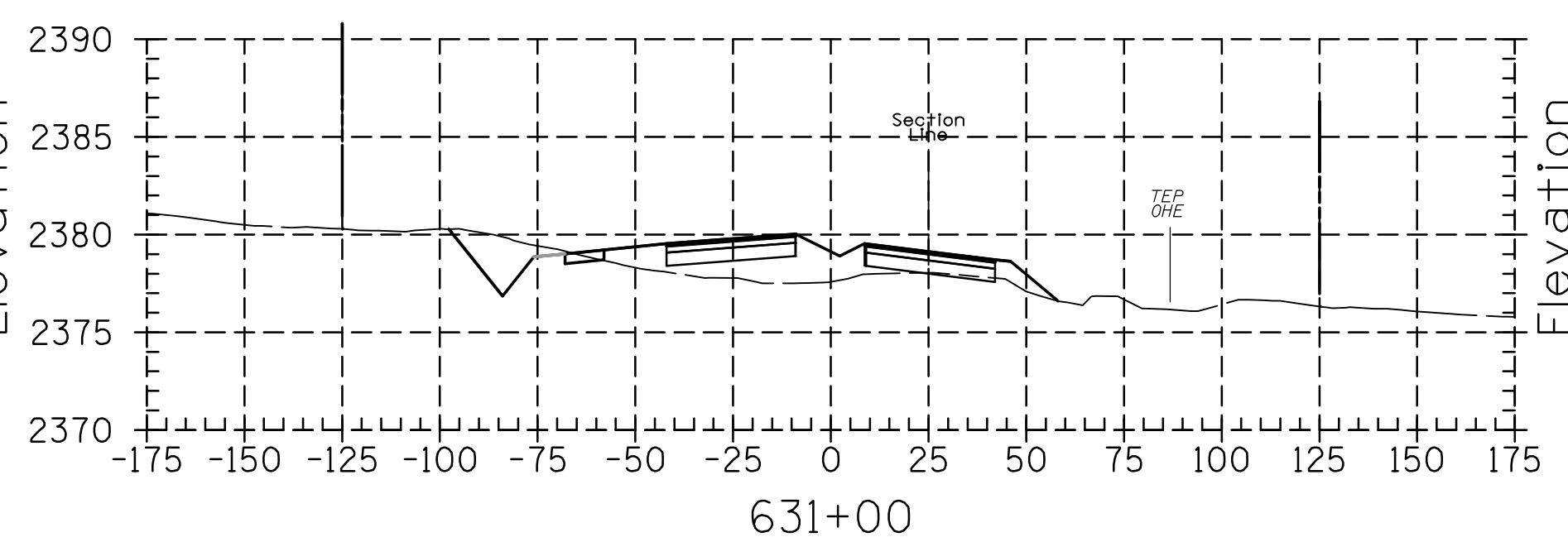
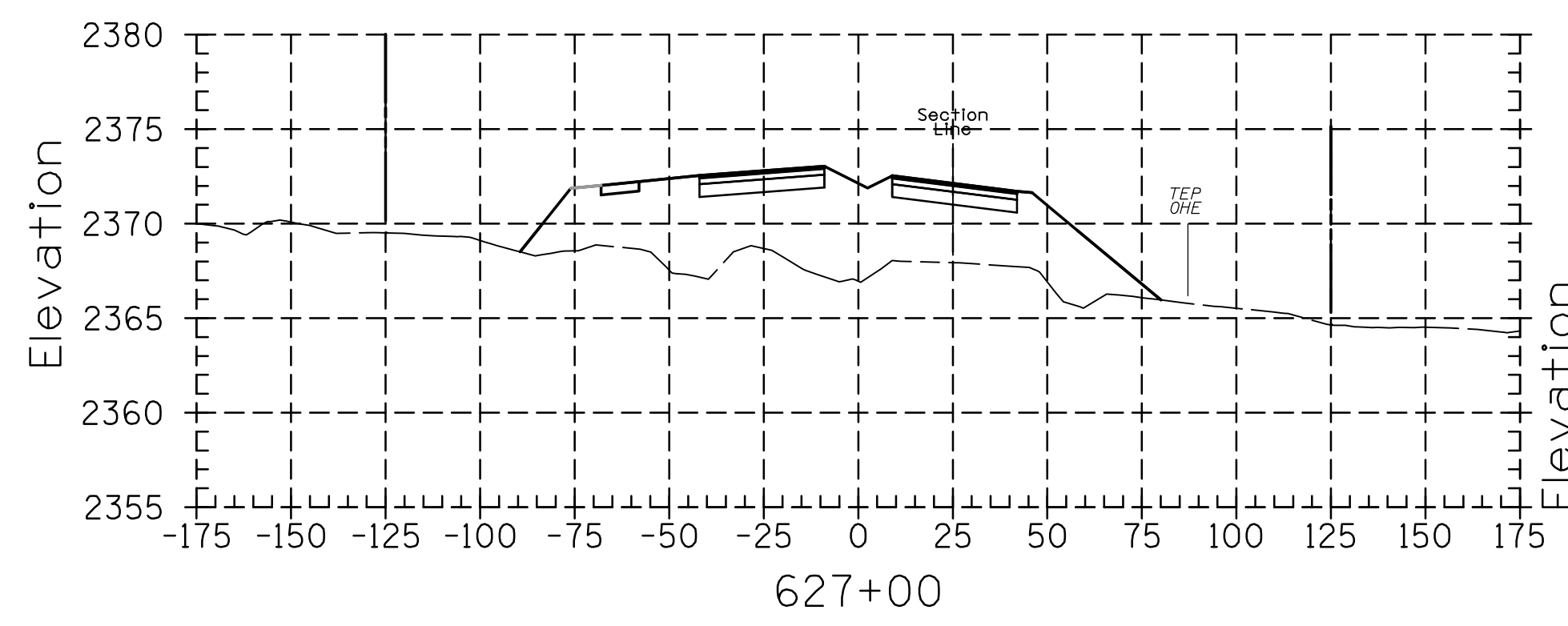
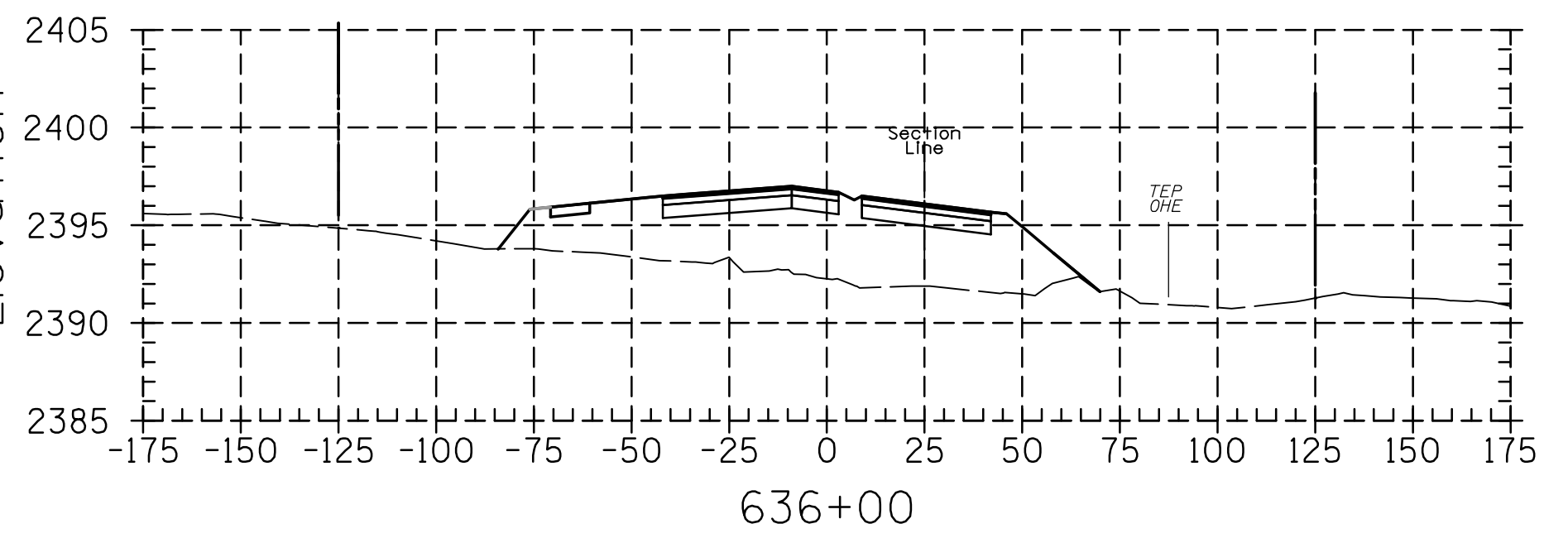
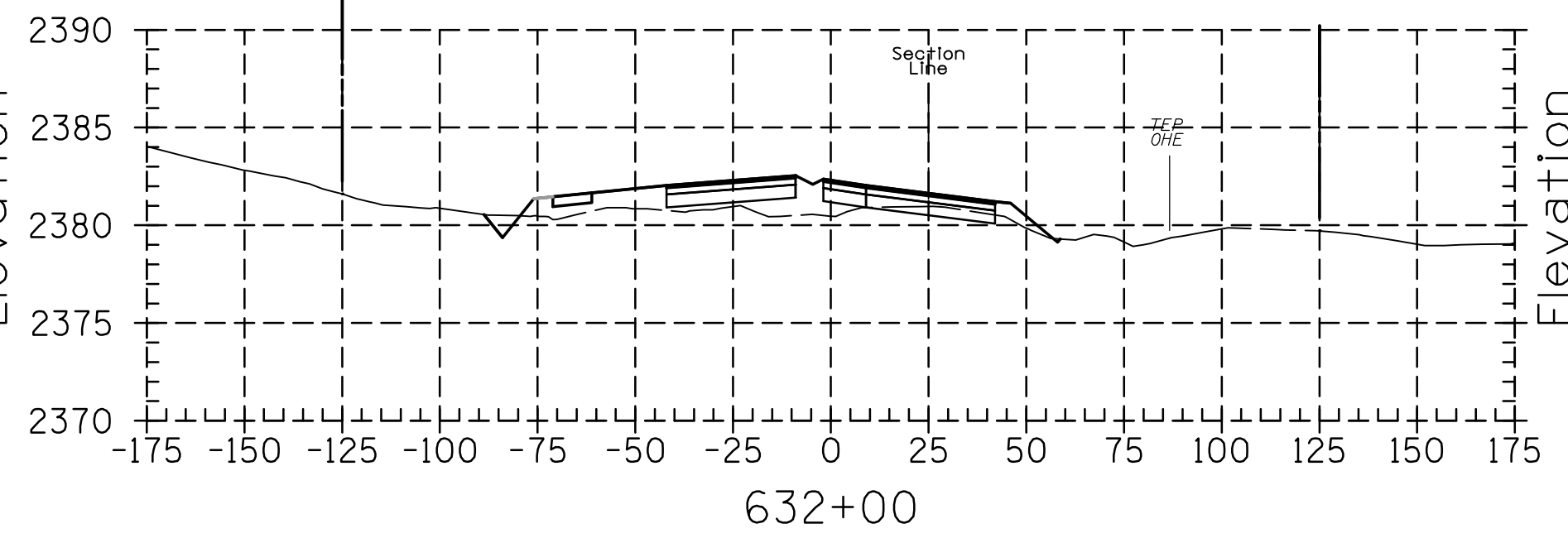
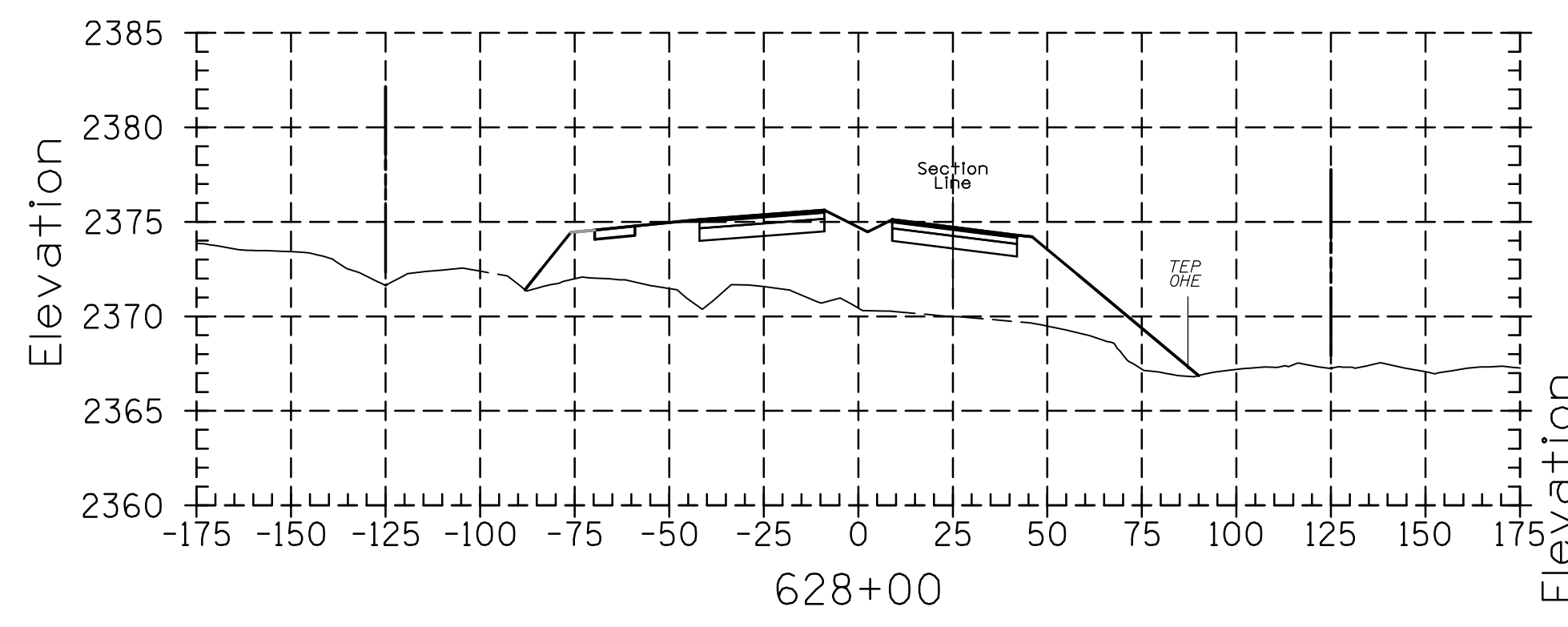
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STA 625+00 TO STA 636+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS16 OF XS31

DESIGNED:	CZ	DATE	12/12
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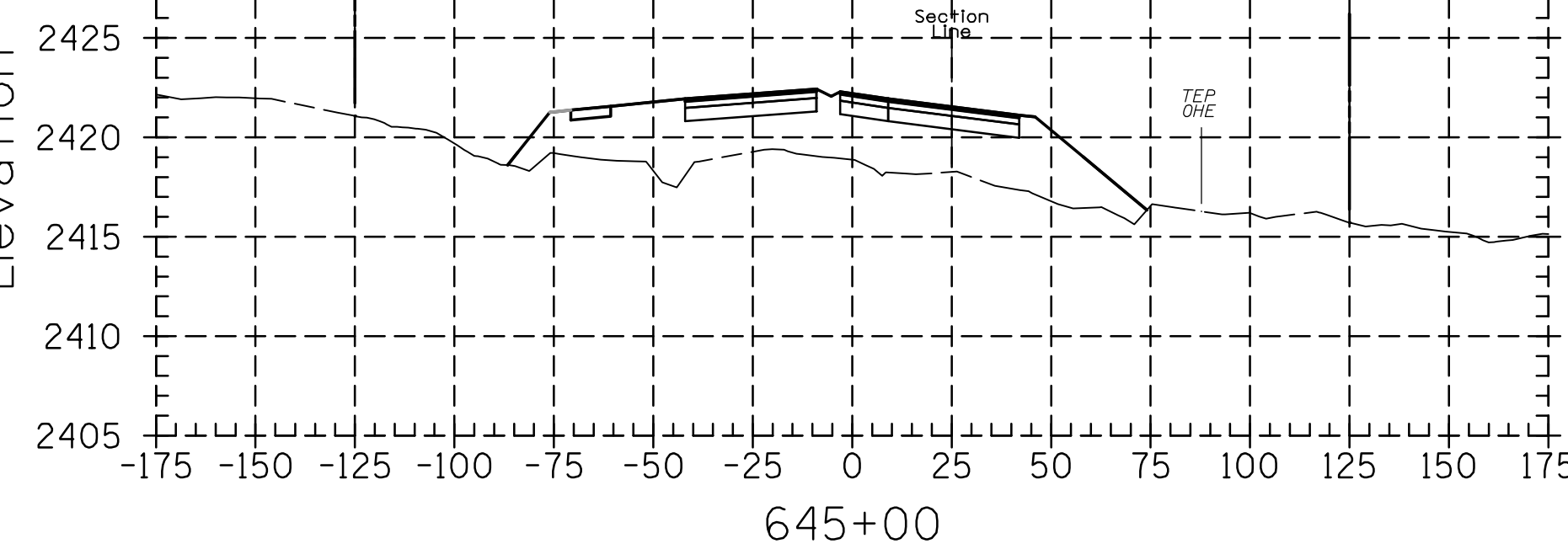
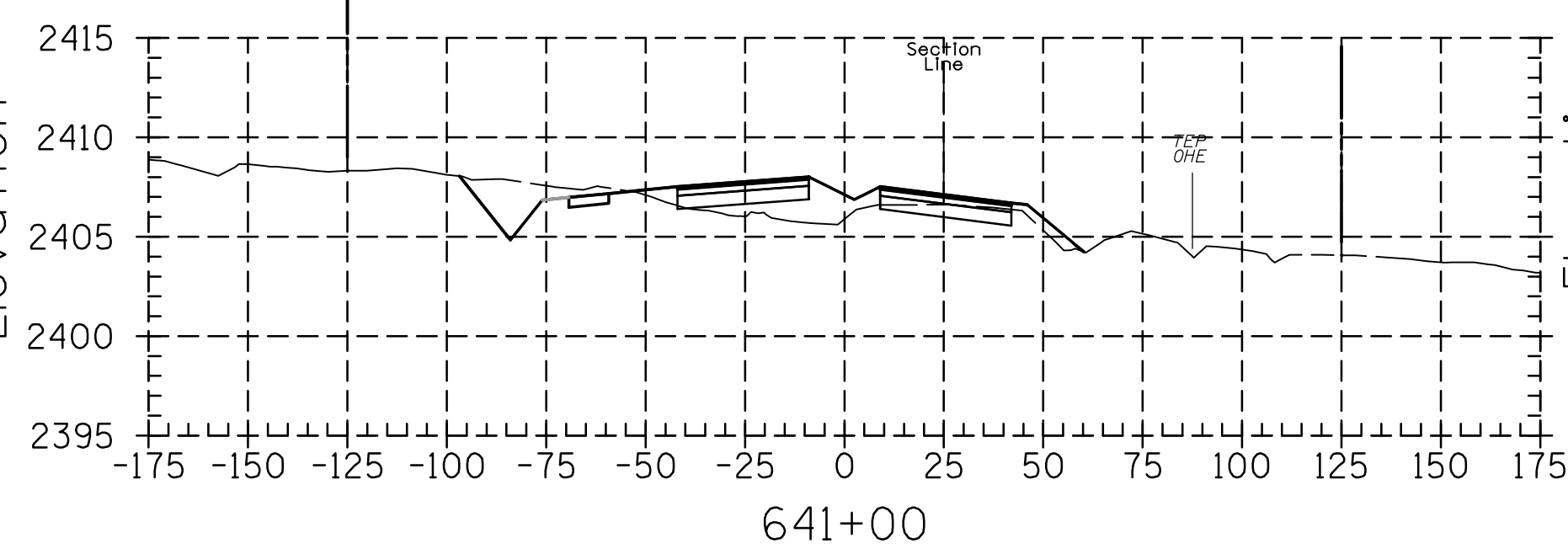
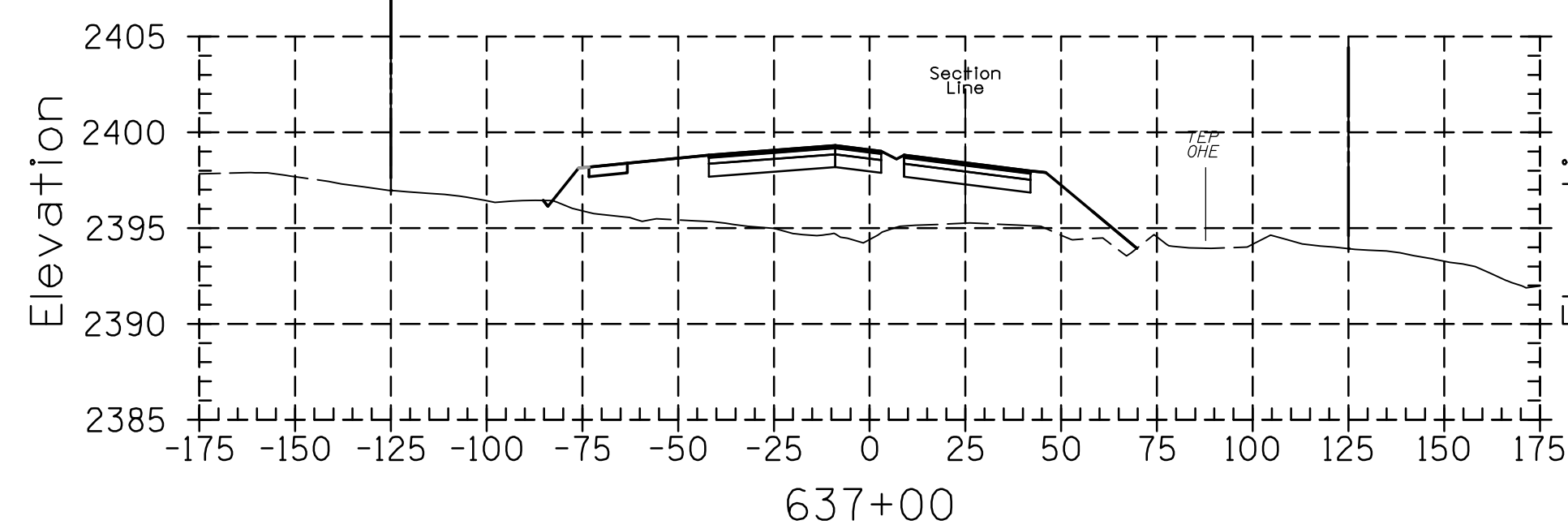
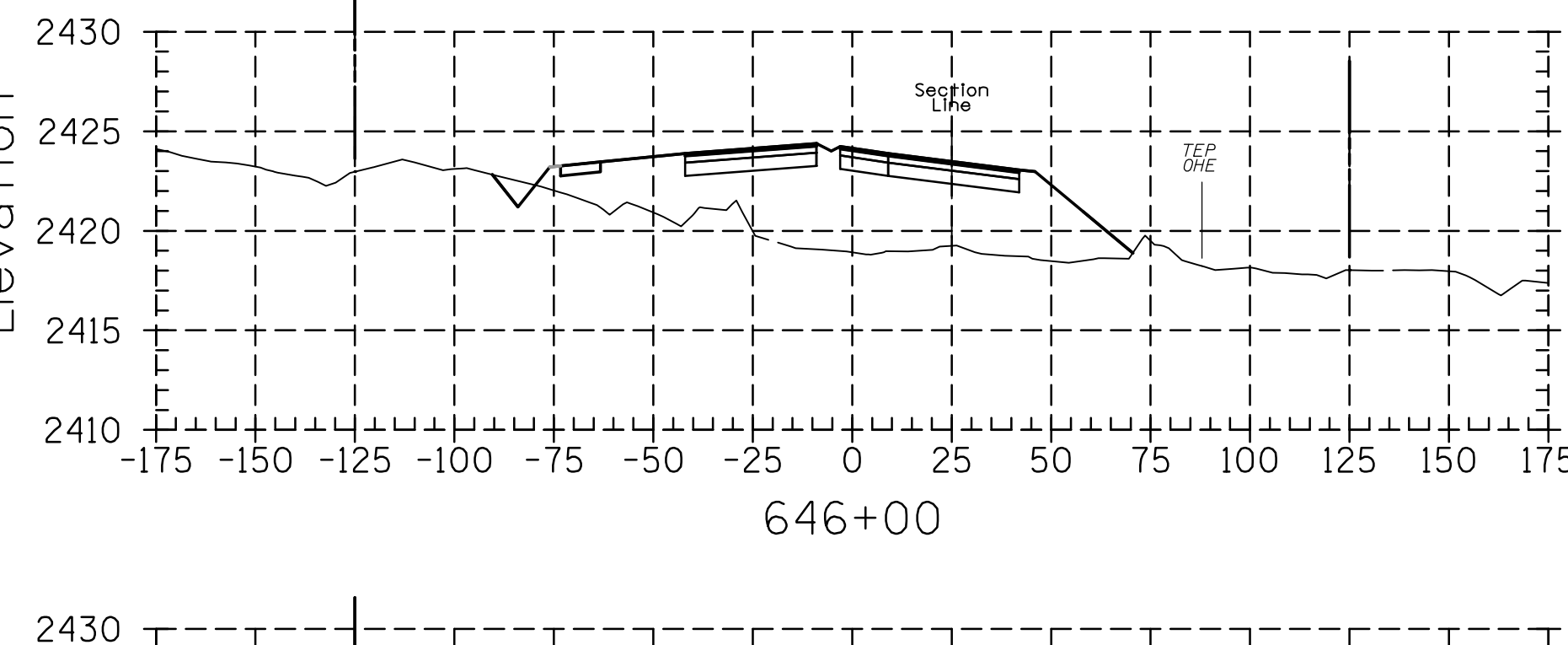
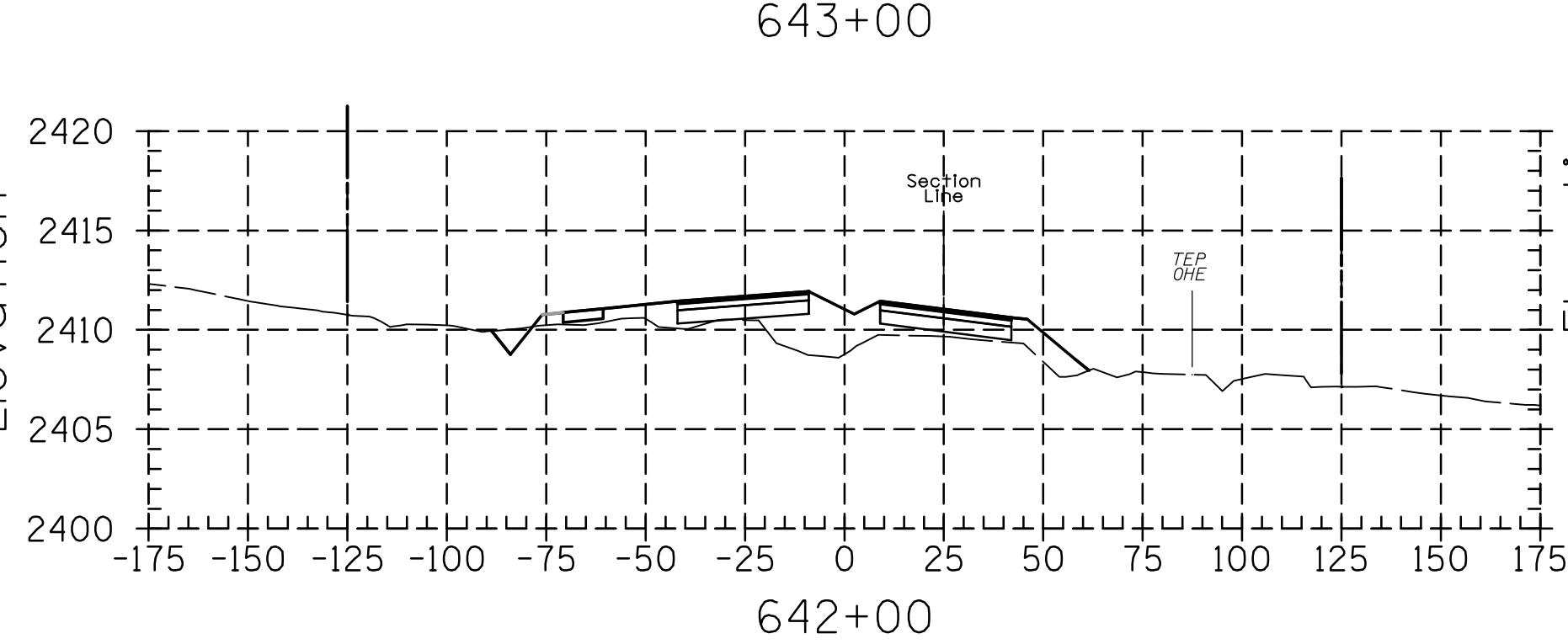
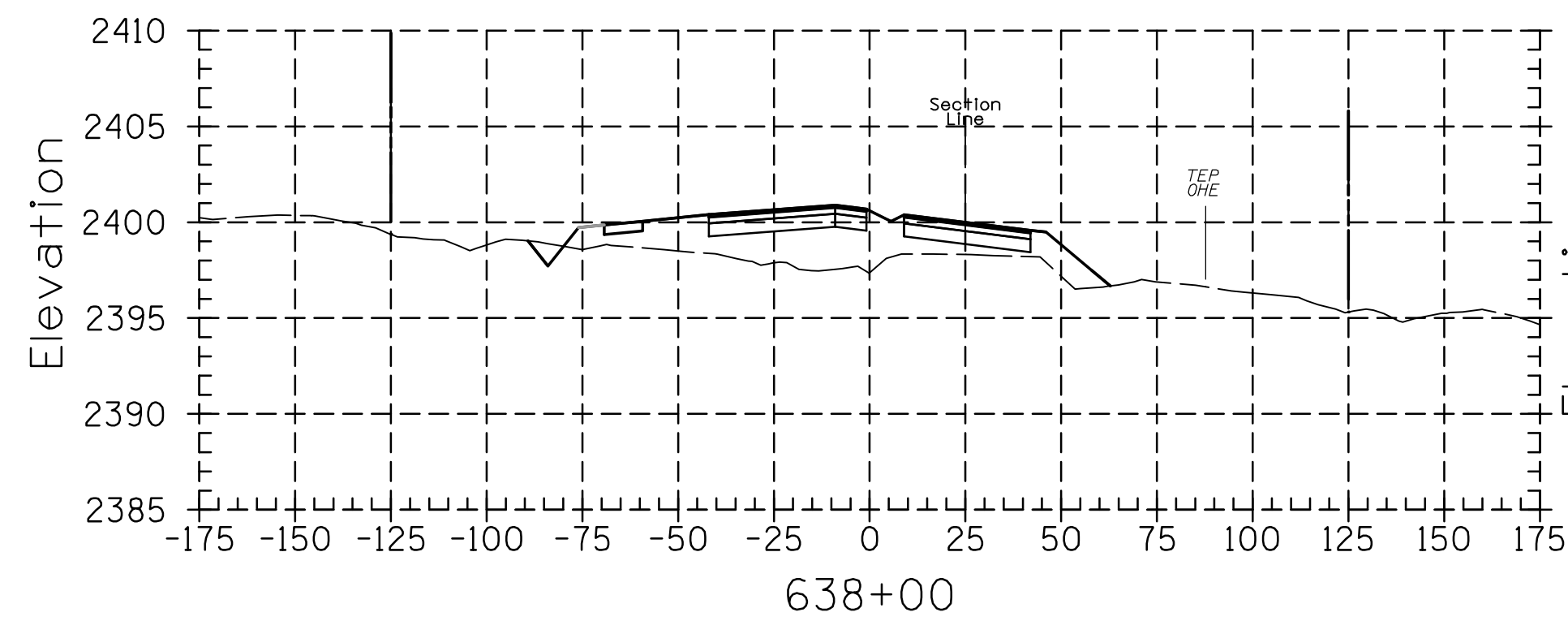
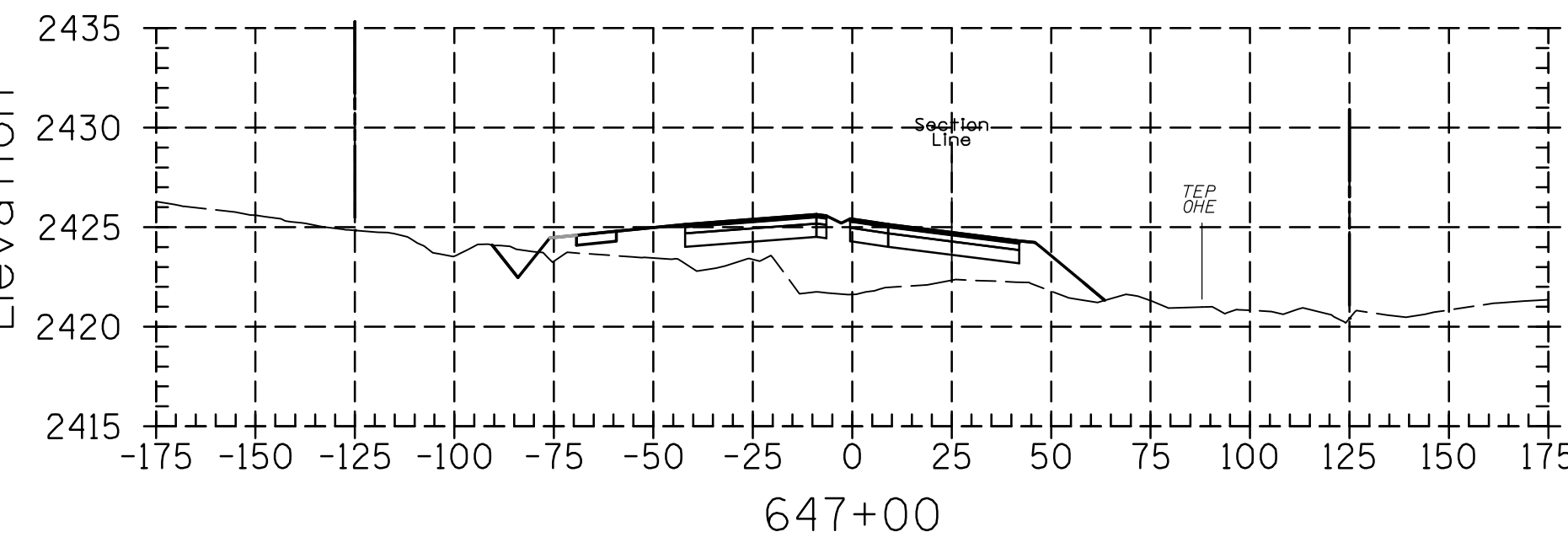
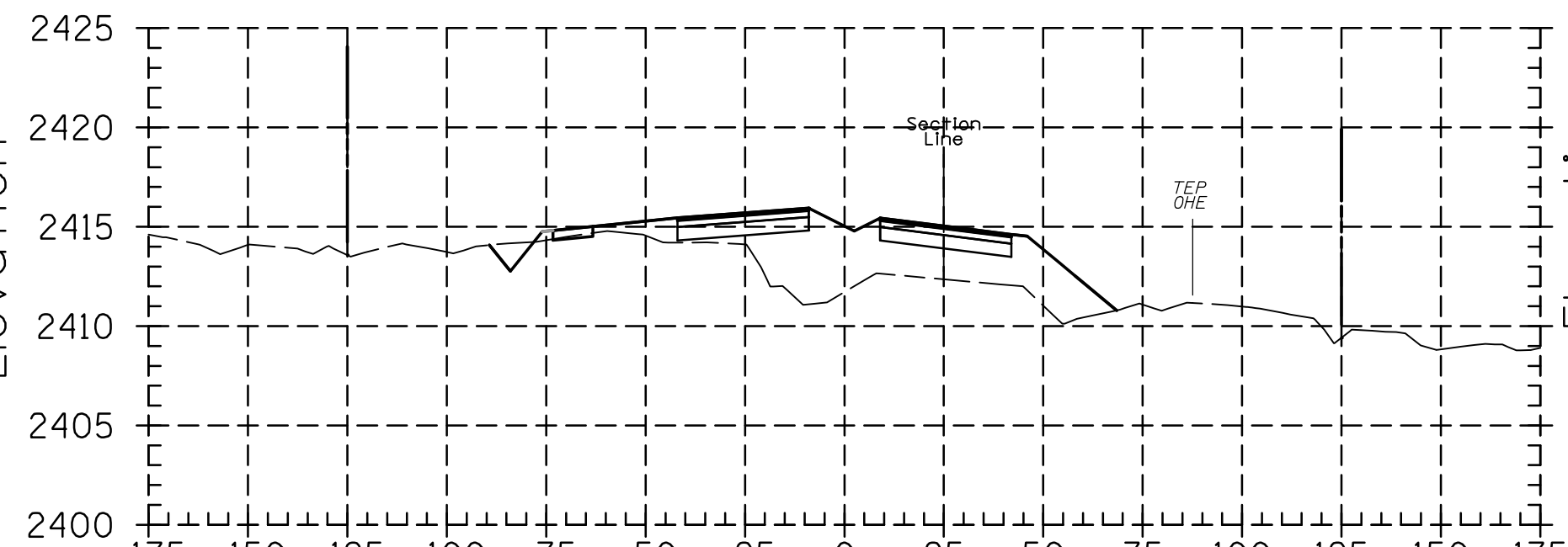
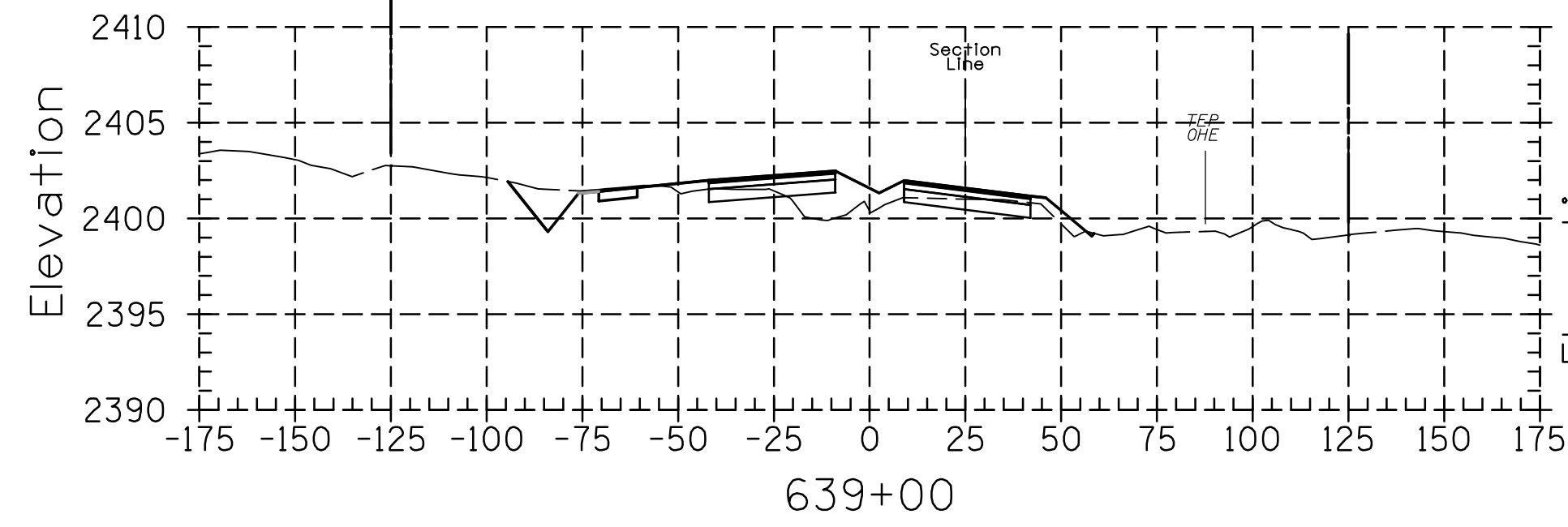
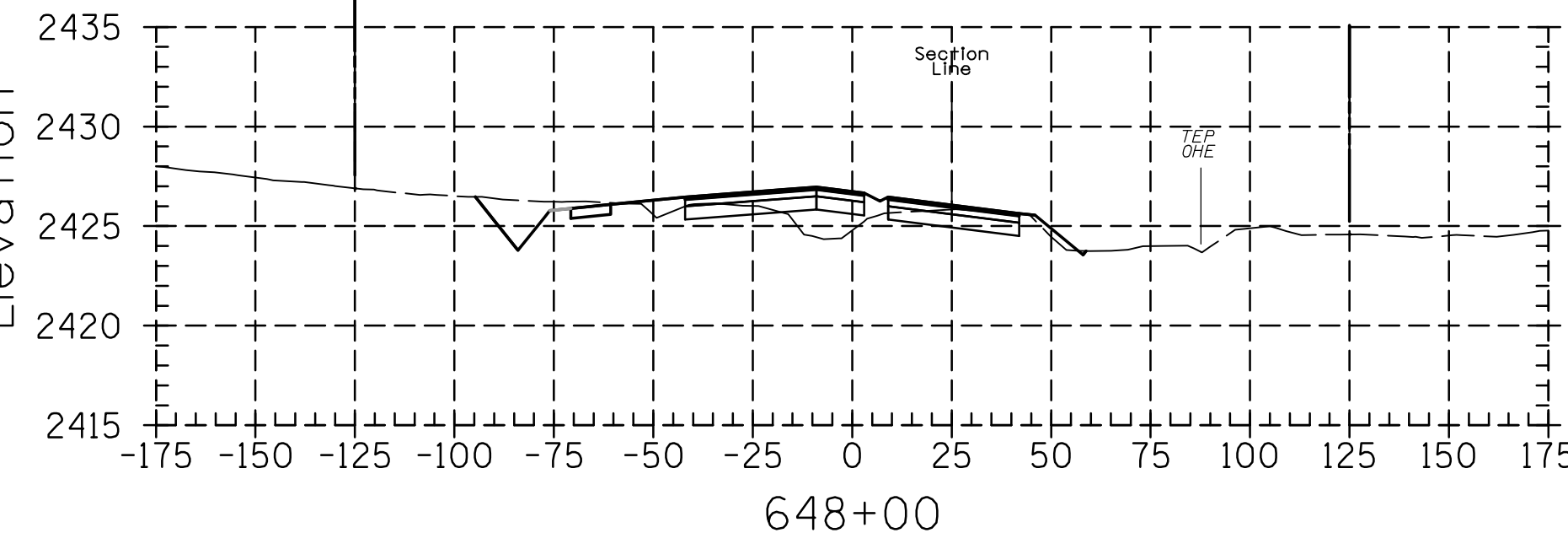
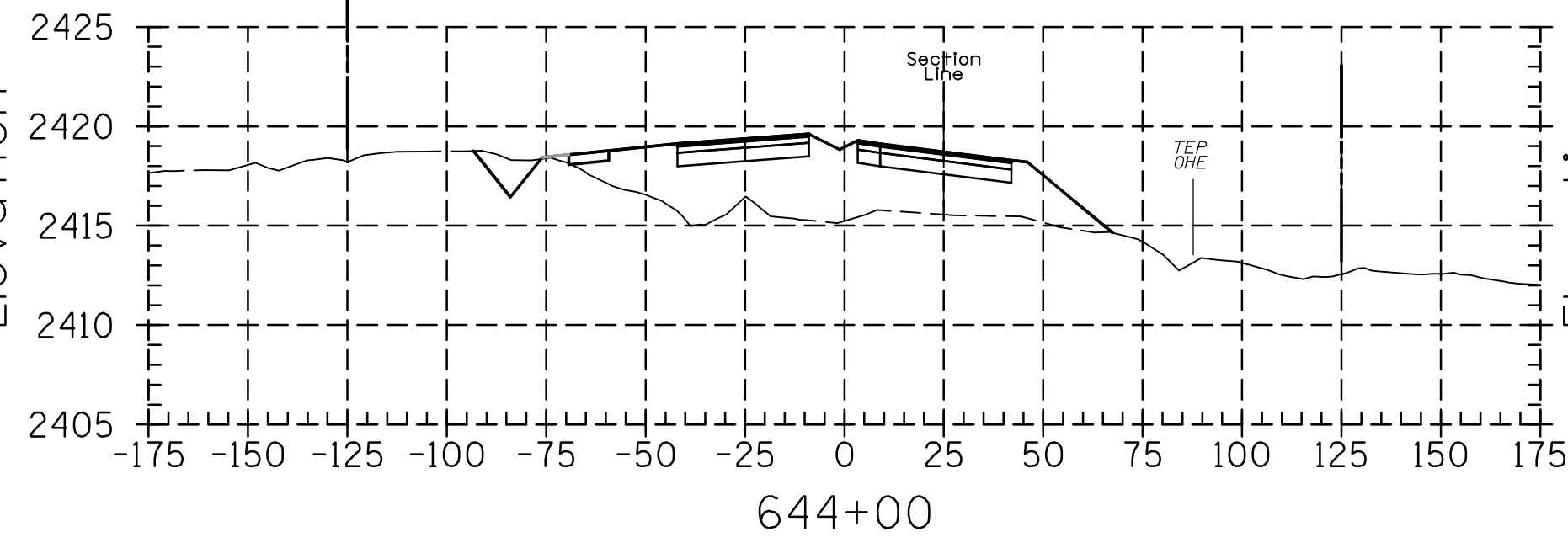
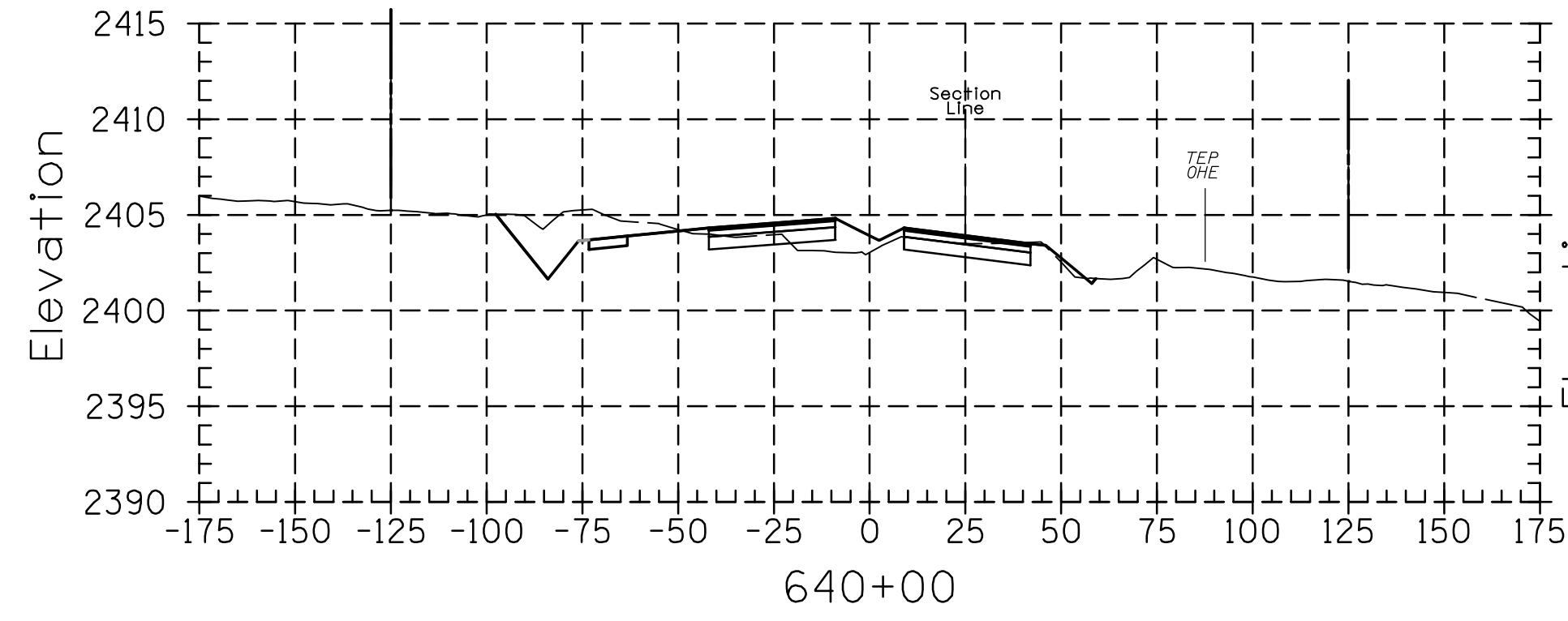
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TOWN OF MARANA - PROJECT NO. 2005-061
 CROSS SECTIONS FOR
TANGERINE ROAD
 STA 625+00 TO 636+00
 TANGERINE ROAD

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STA 637+00 TO STA 648+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS17 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
 STA 637+00 TO 648+00
 TANGERINE ROAD

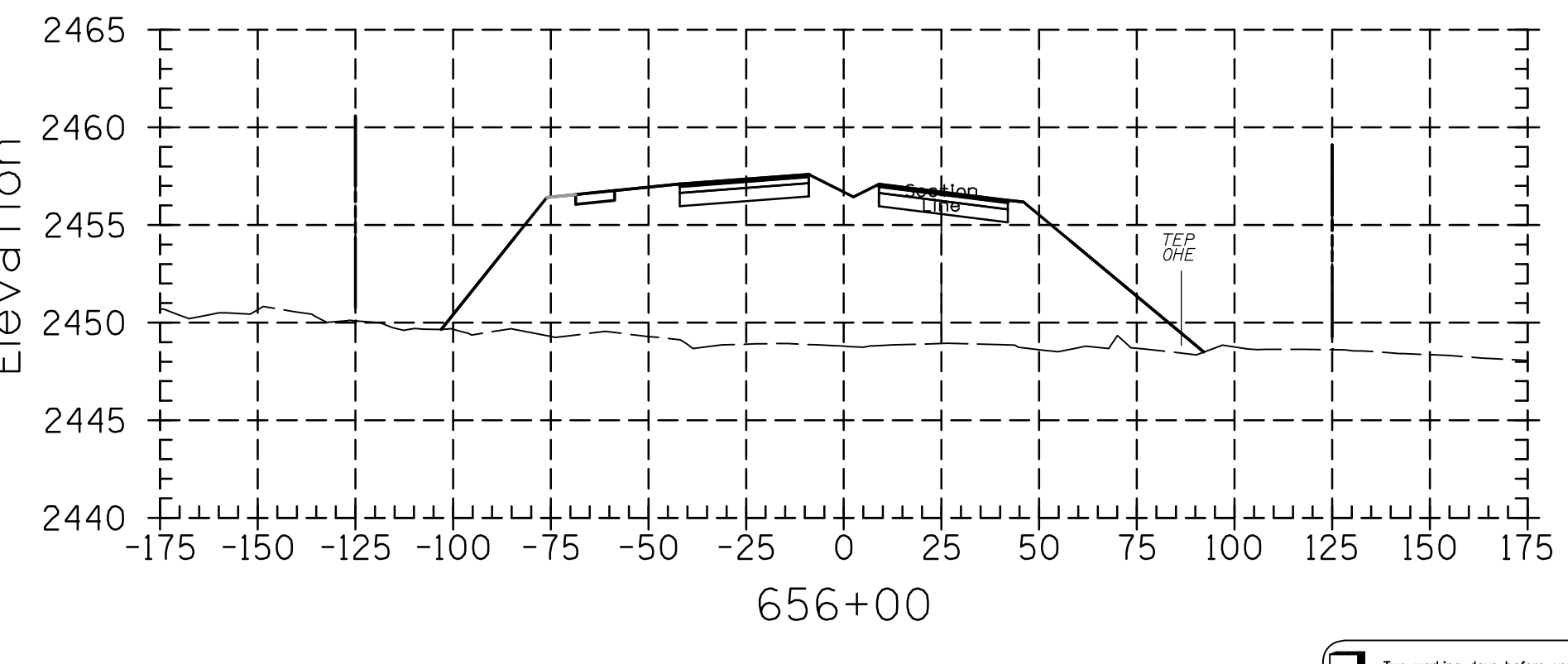
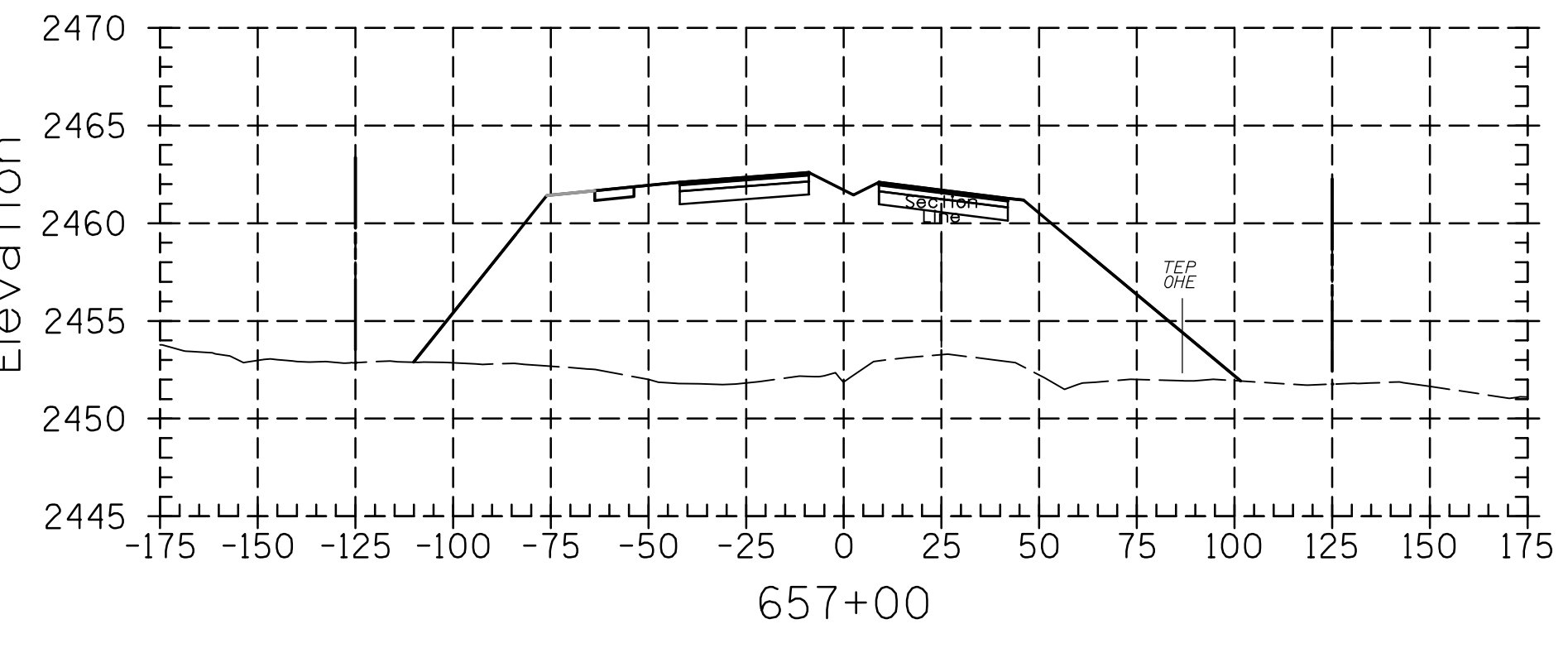
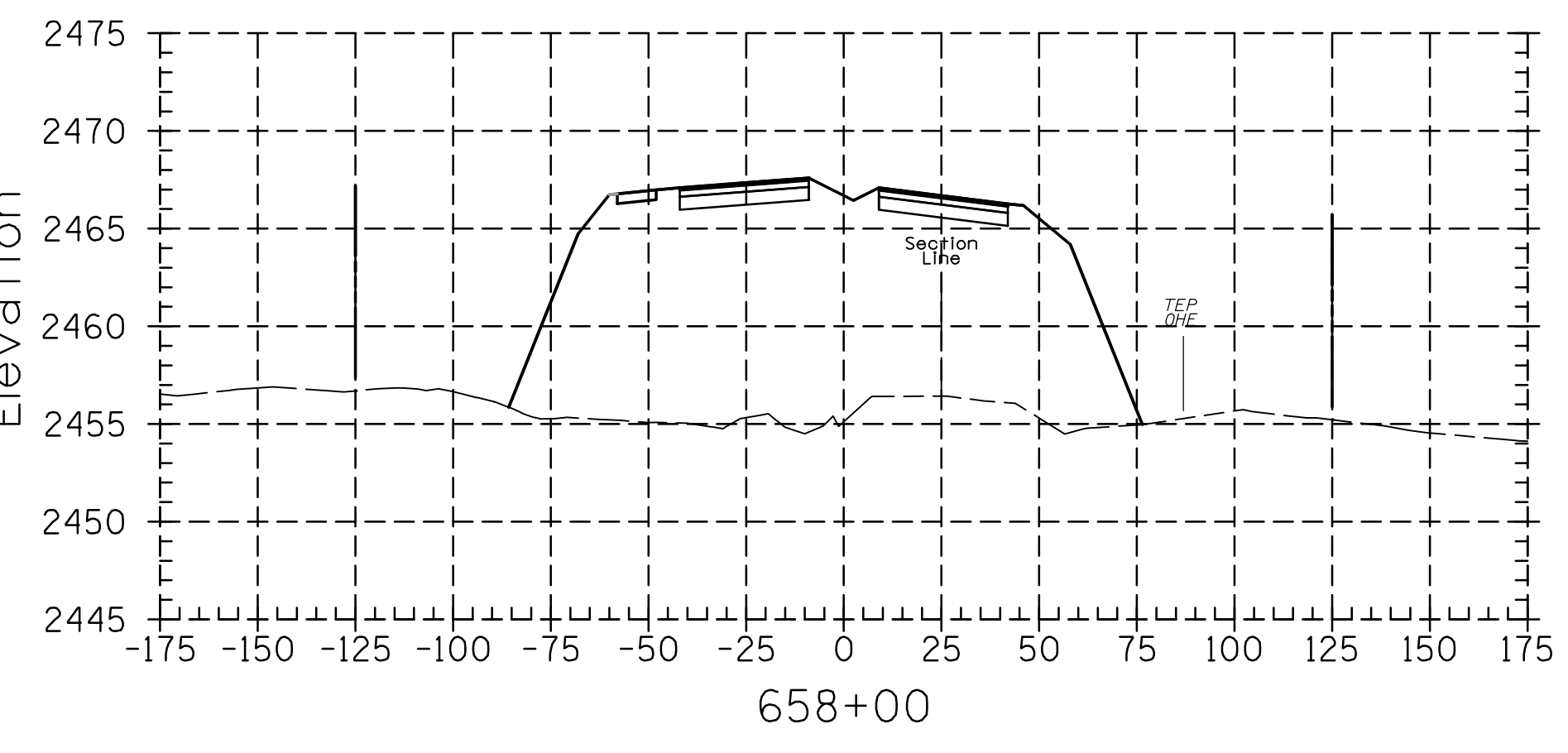
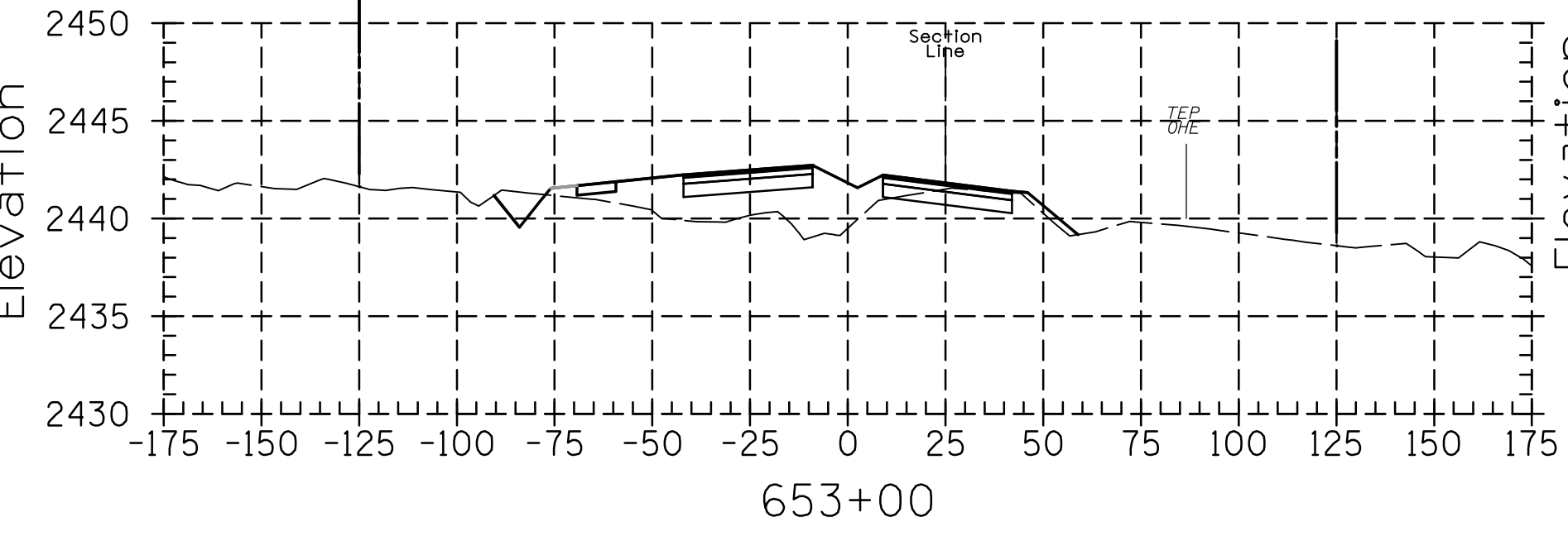
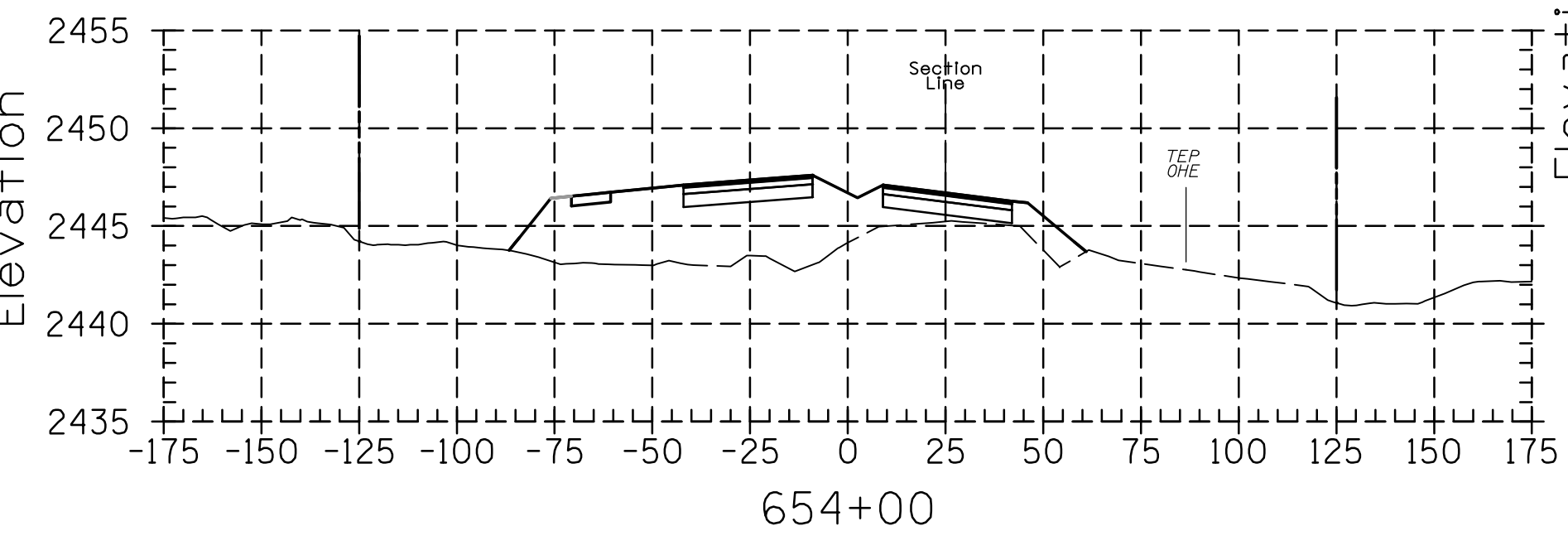
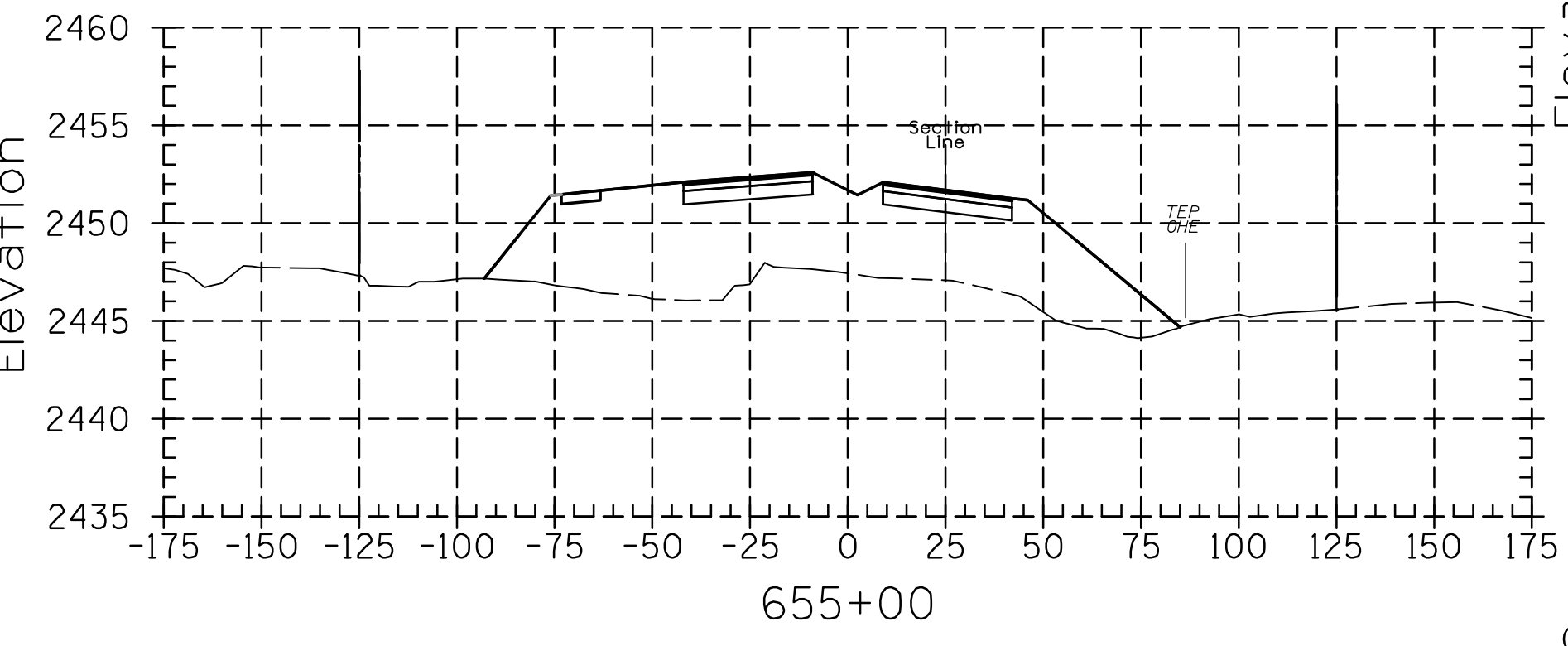
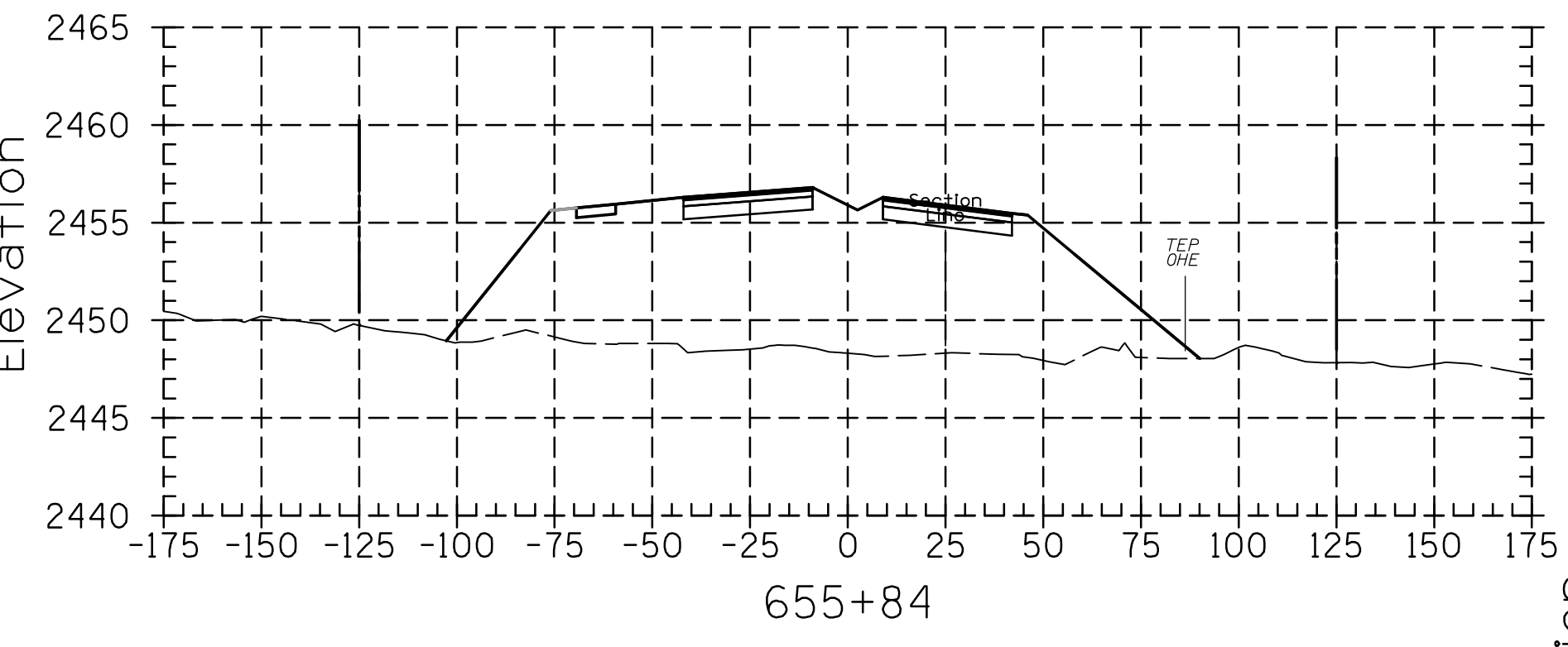
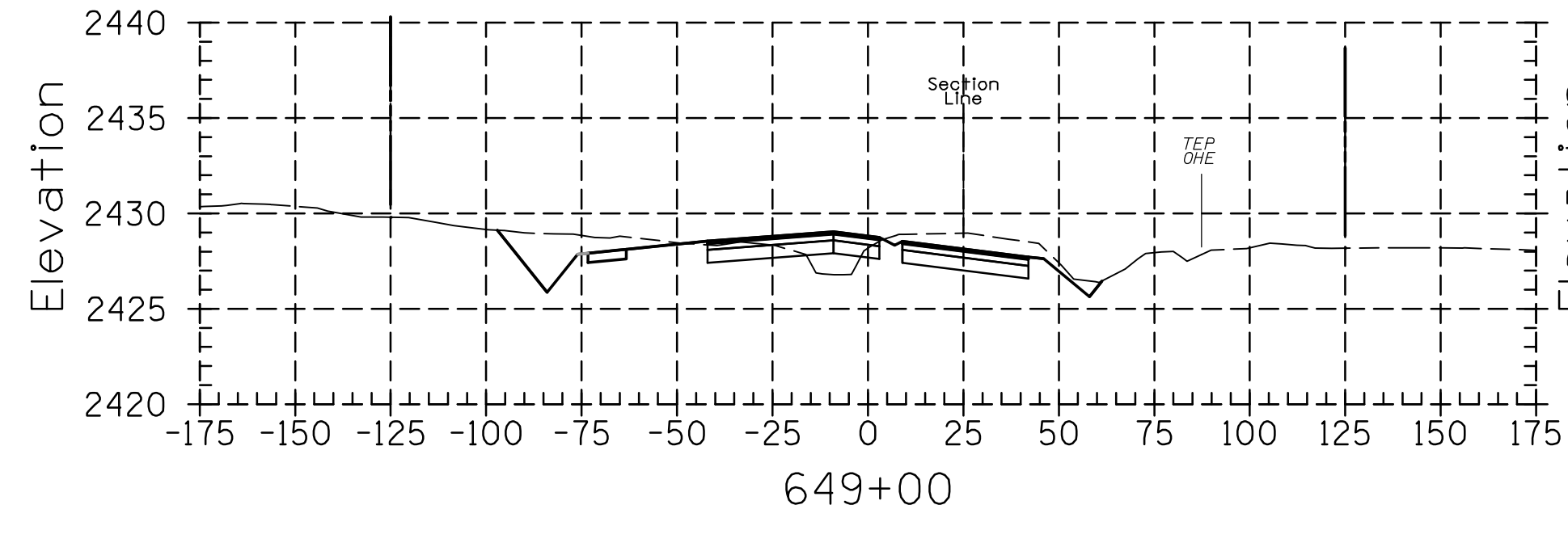
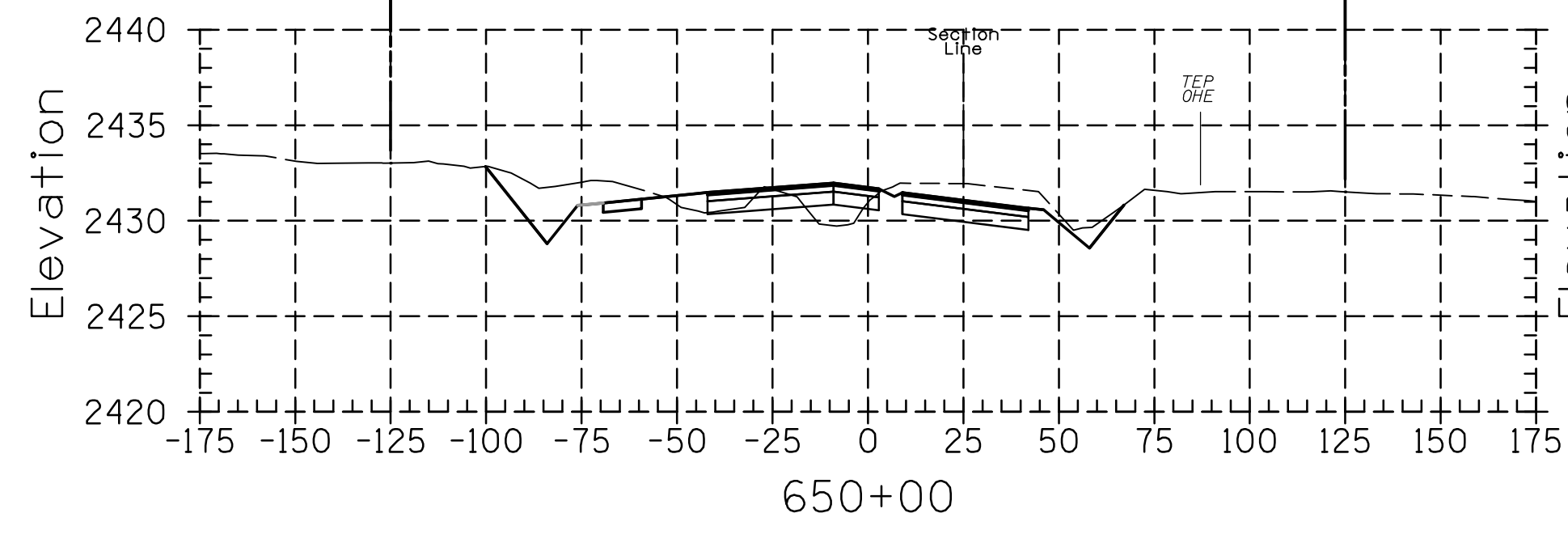
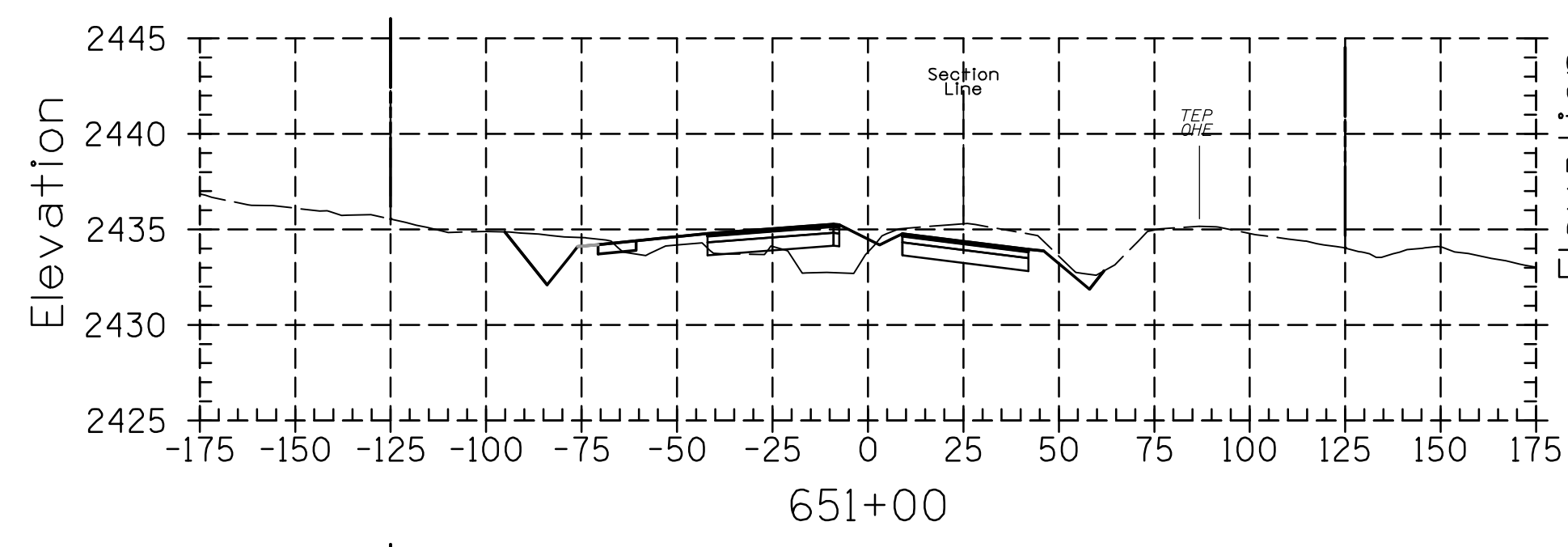
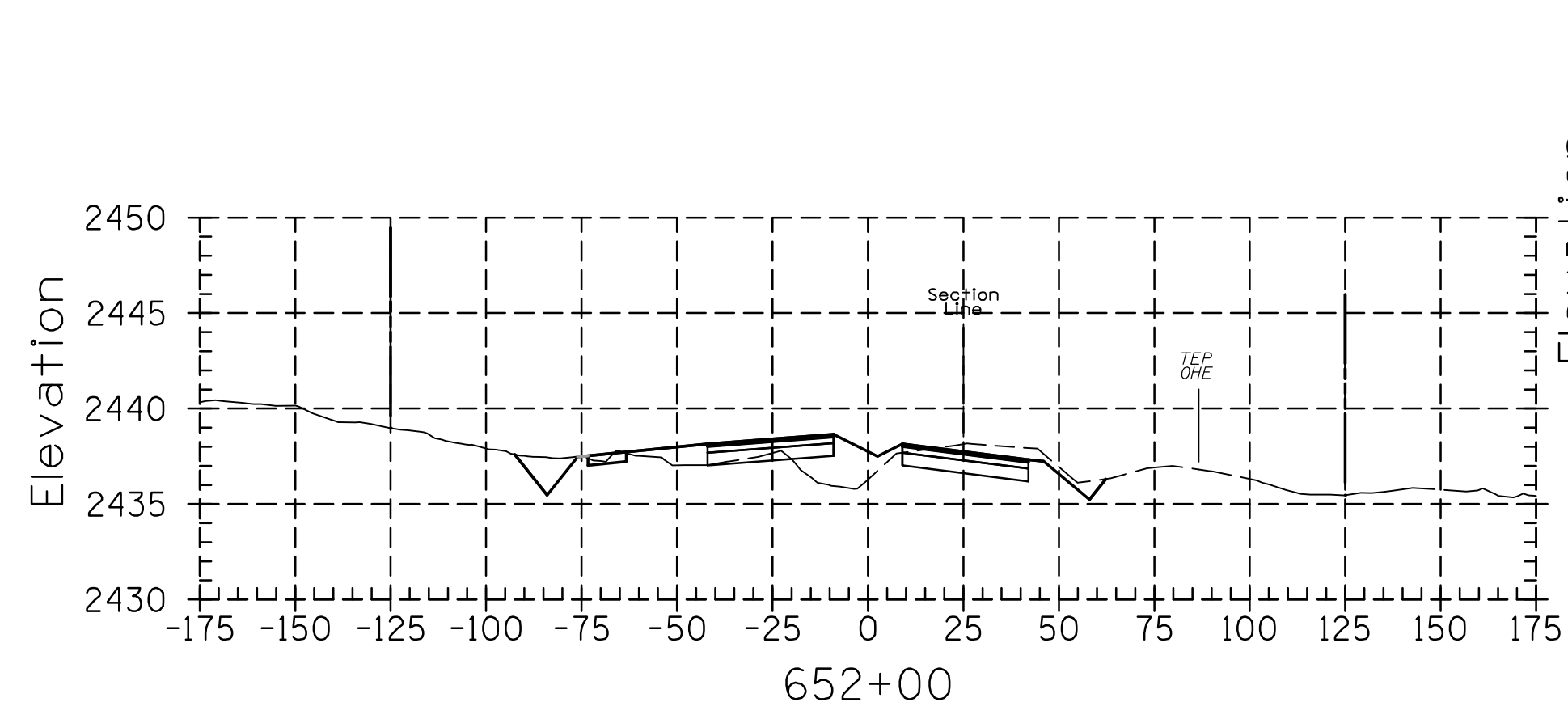
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AA	12/12

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STA 649+00 TO STA 658+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS18 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 649+00 TO 658+00
 TANGERINE ROAD

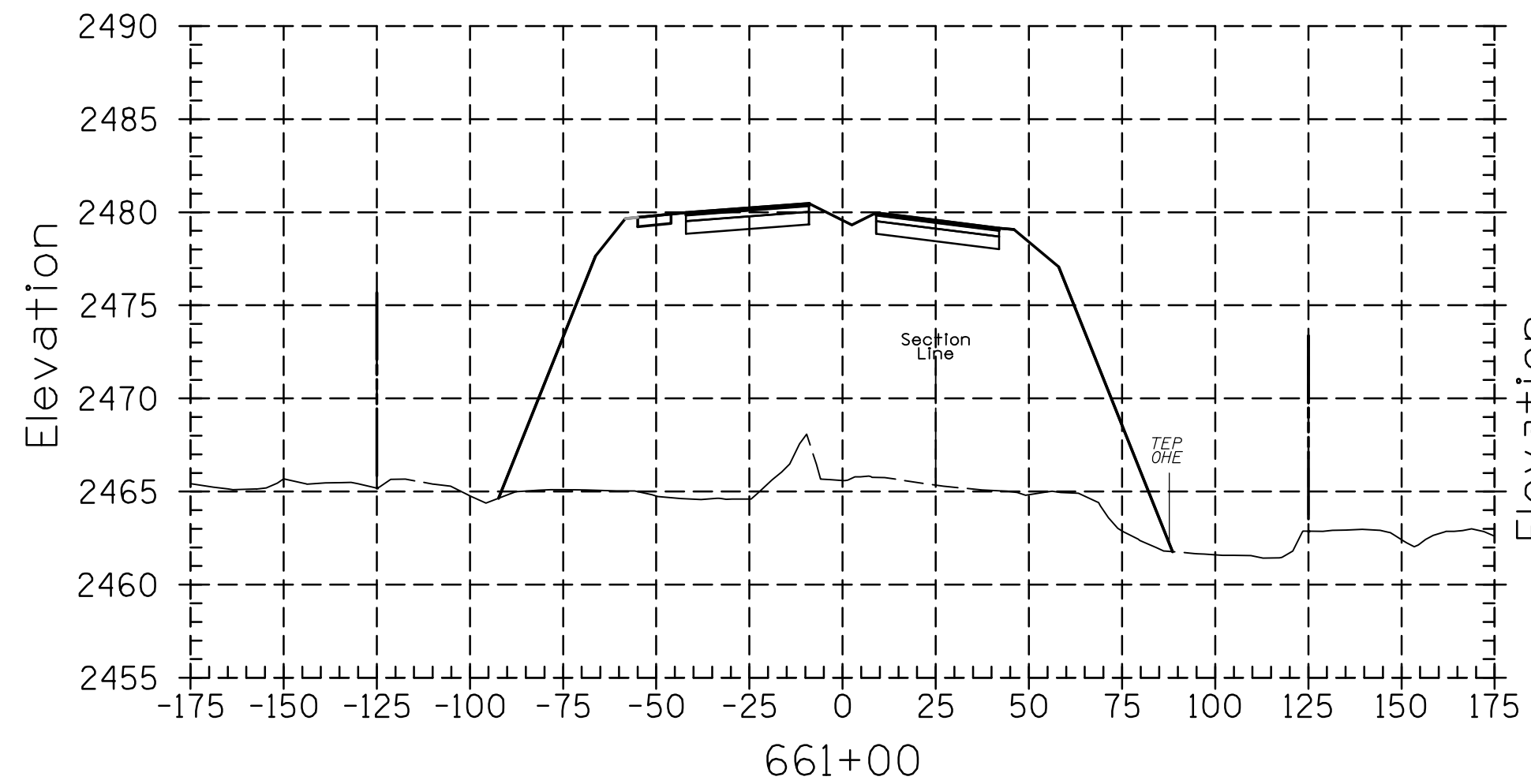
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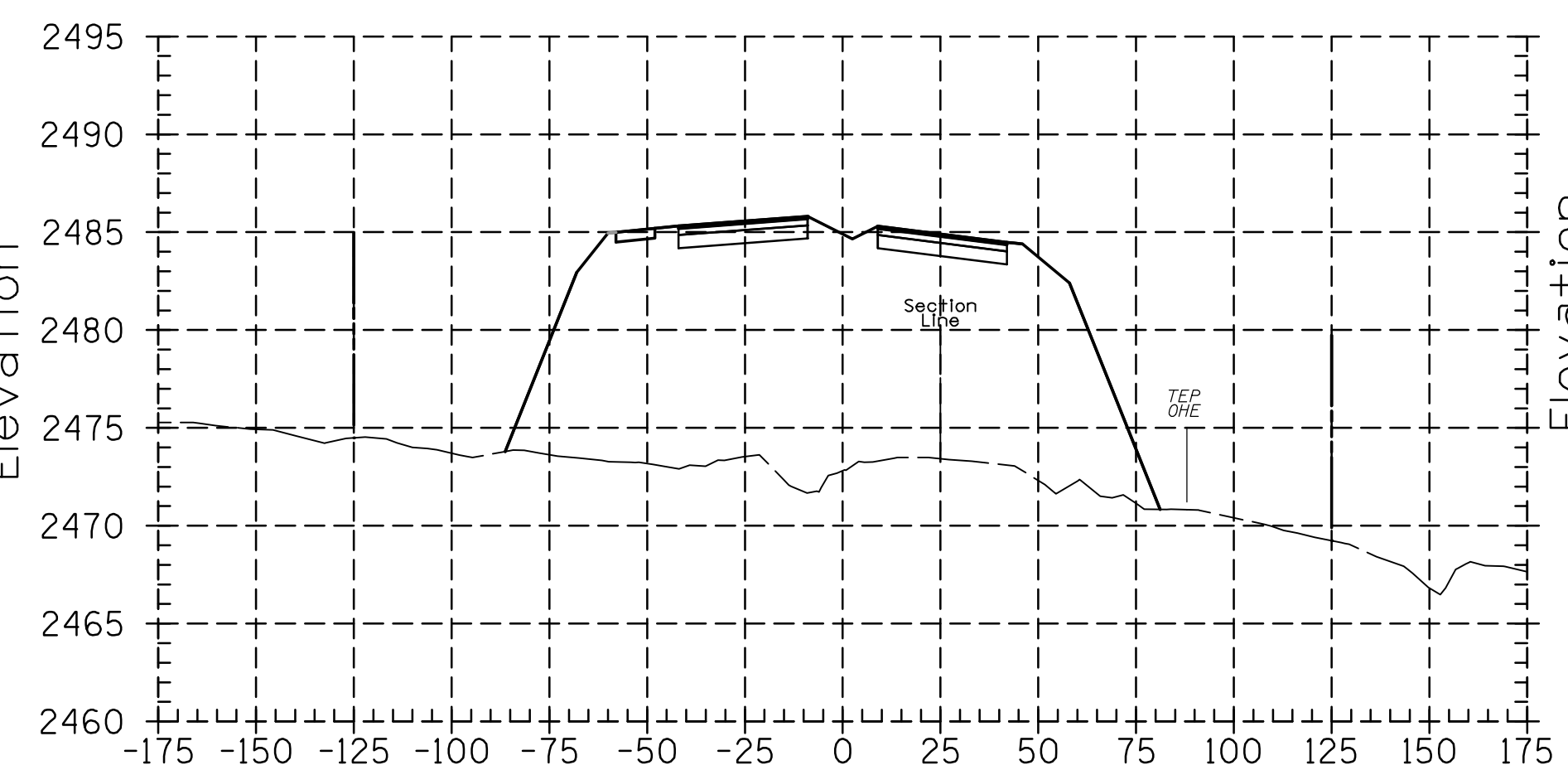
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DESIGNED:	DATE
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CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

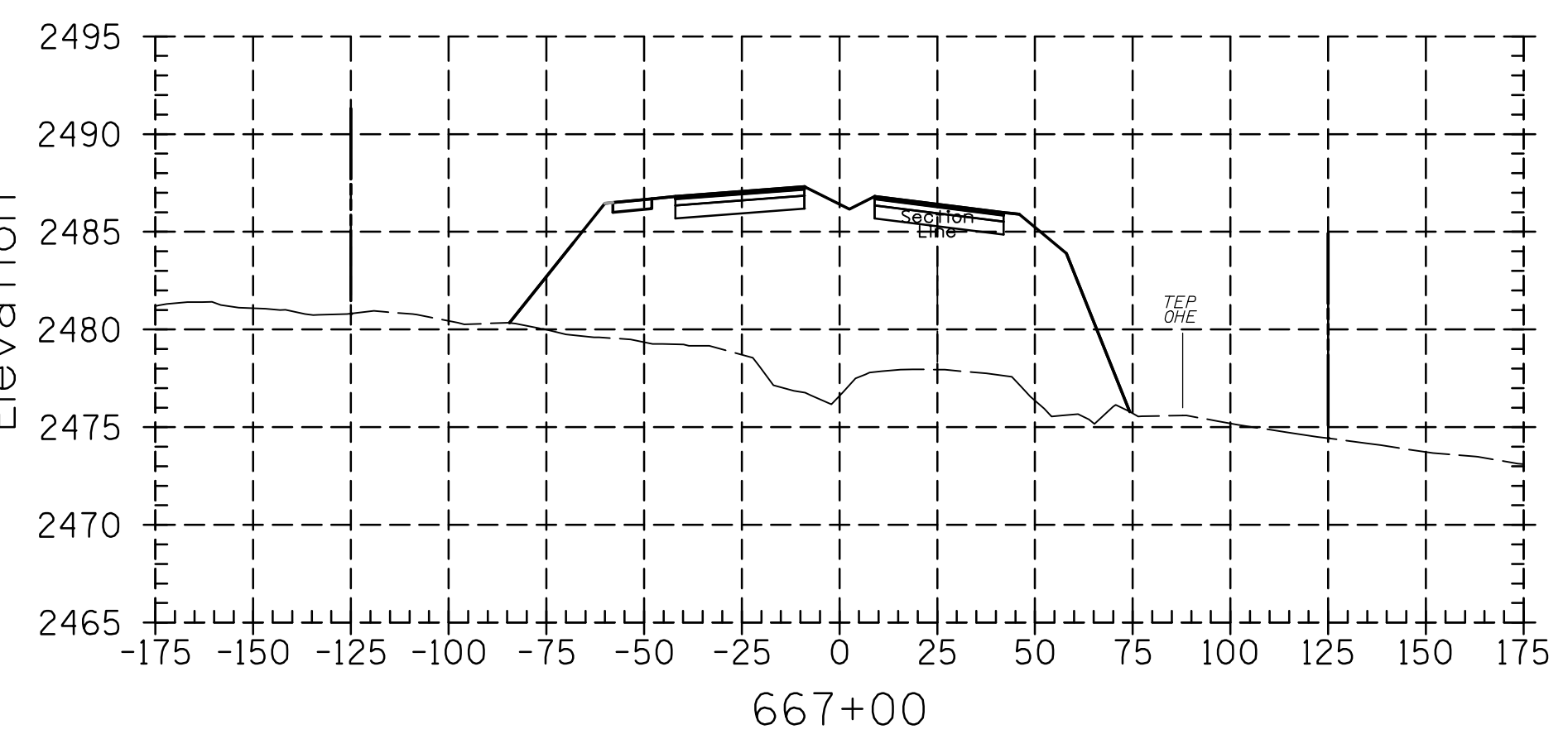
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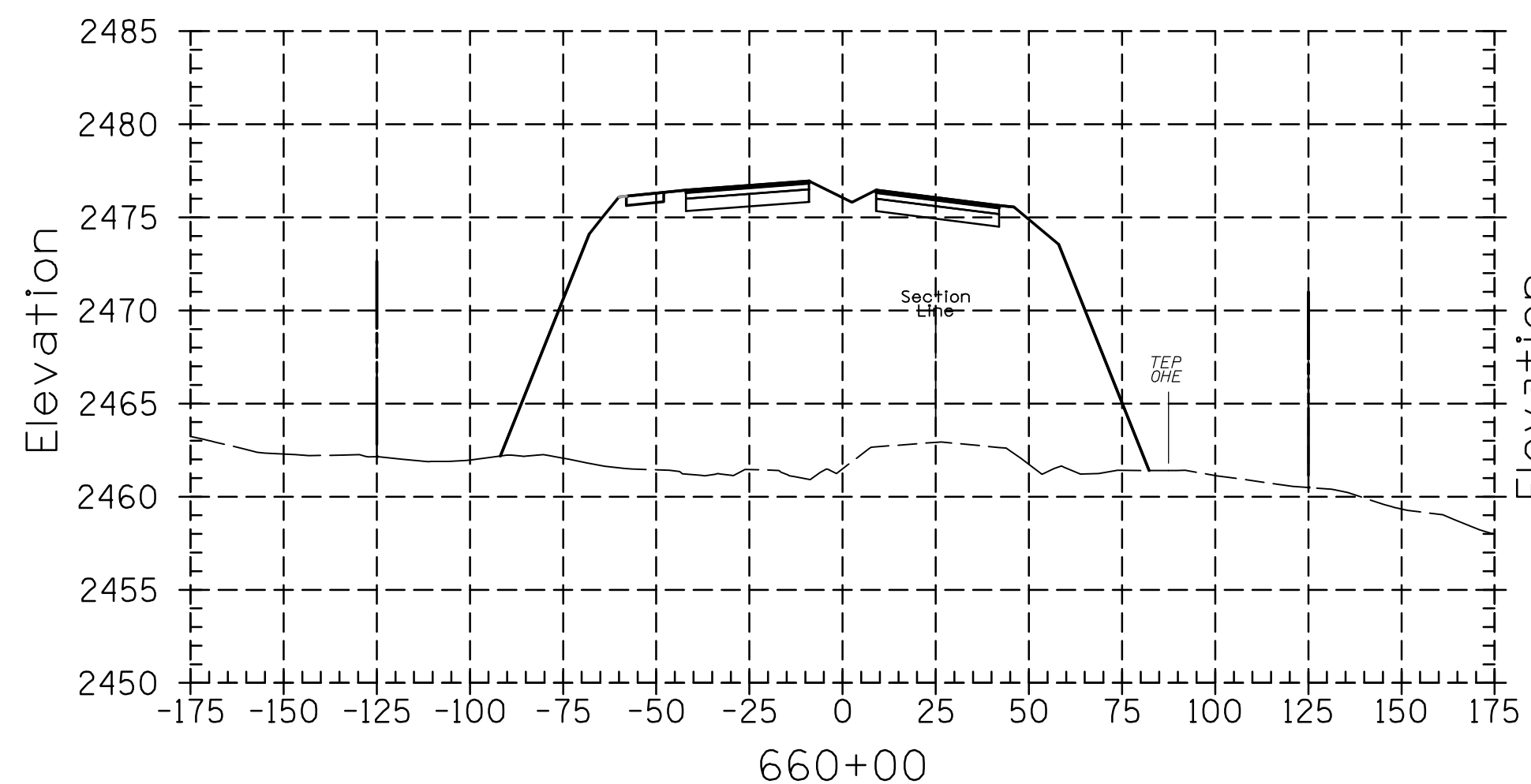
661+00



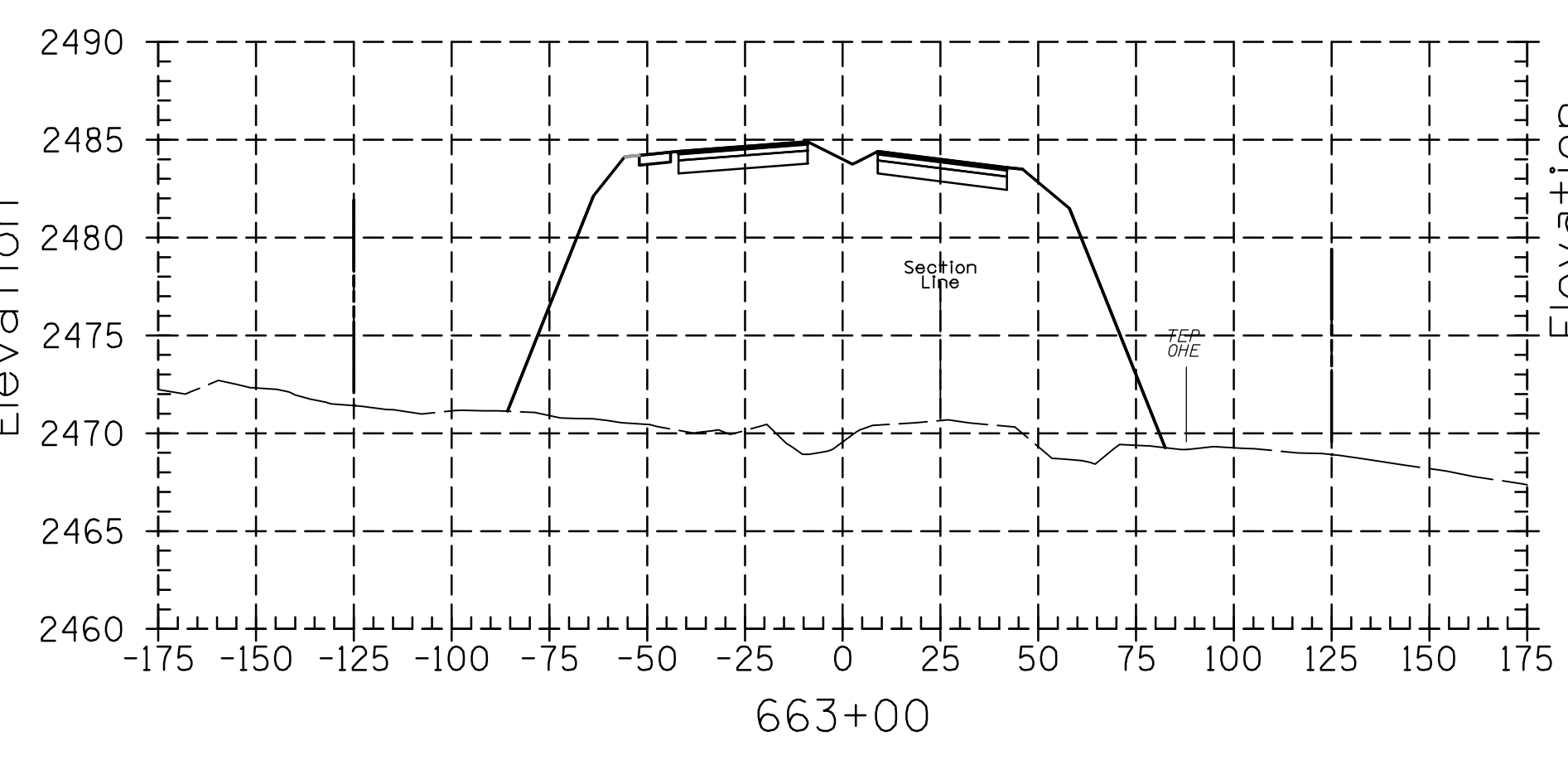
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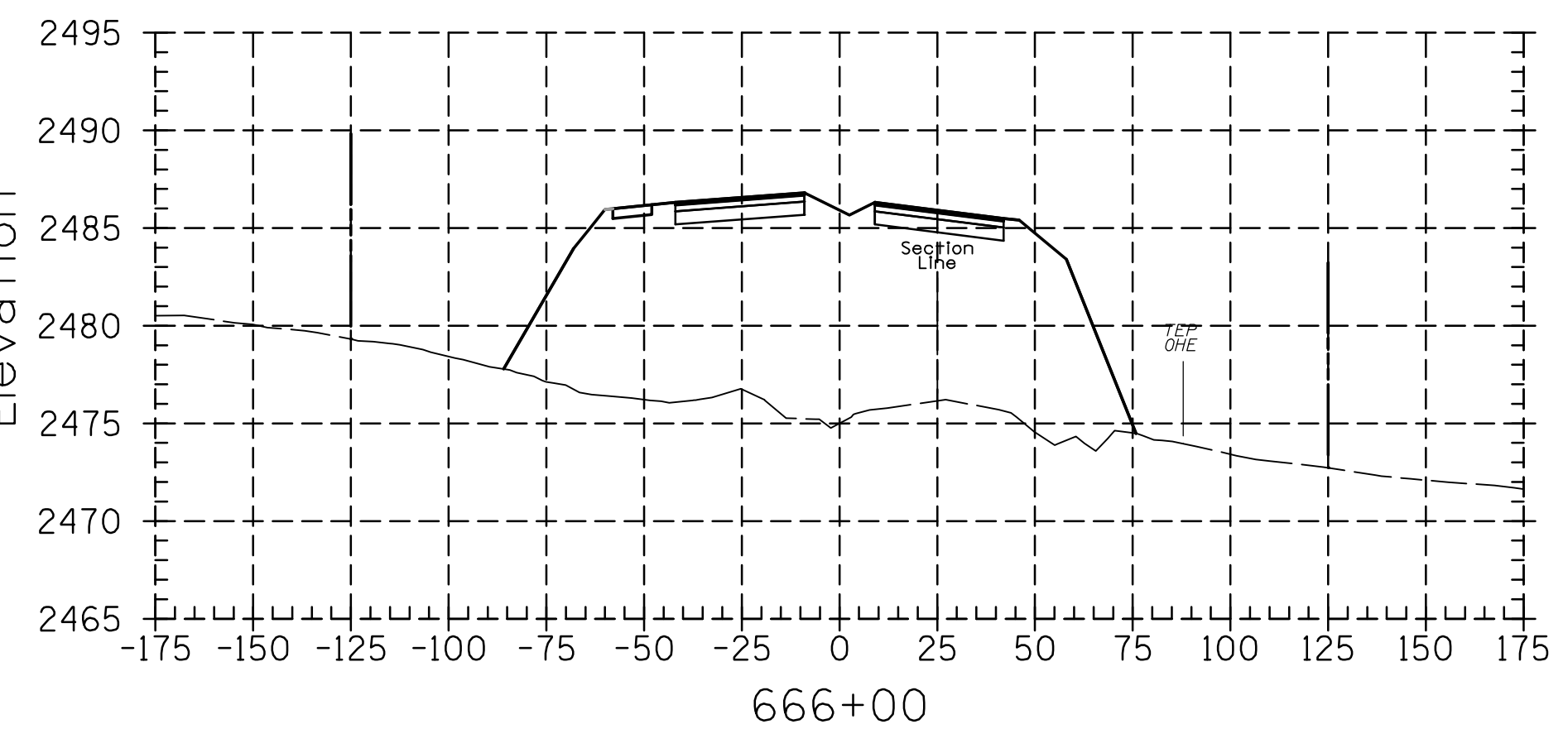
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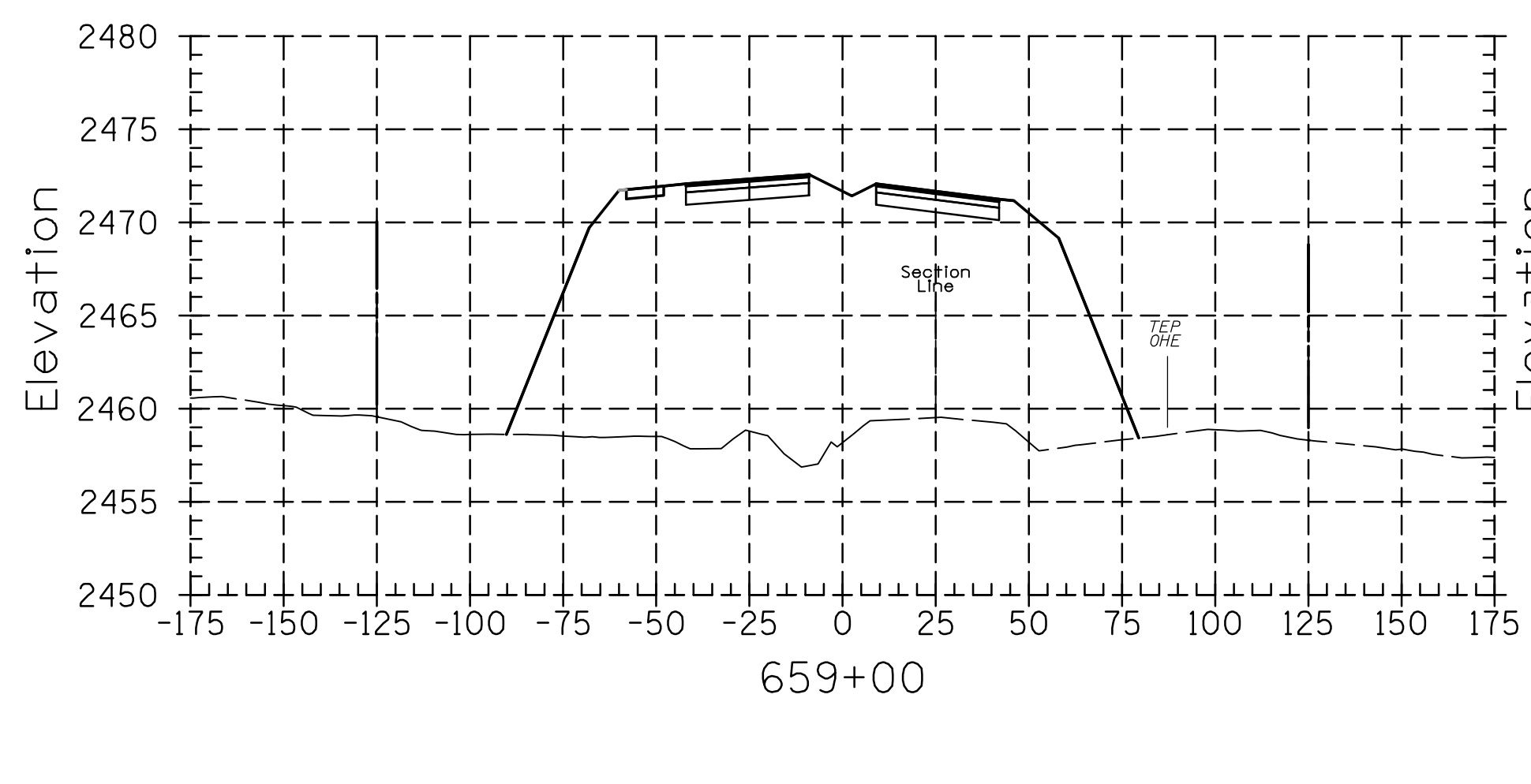
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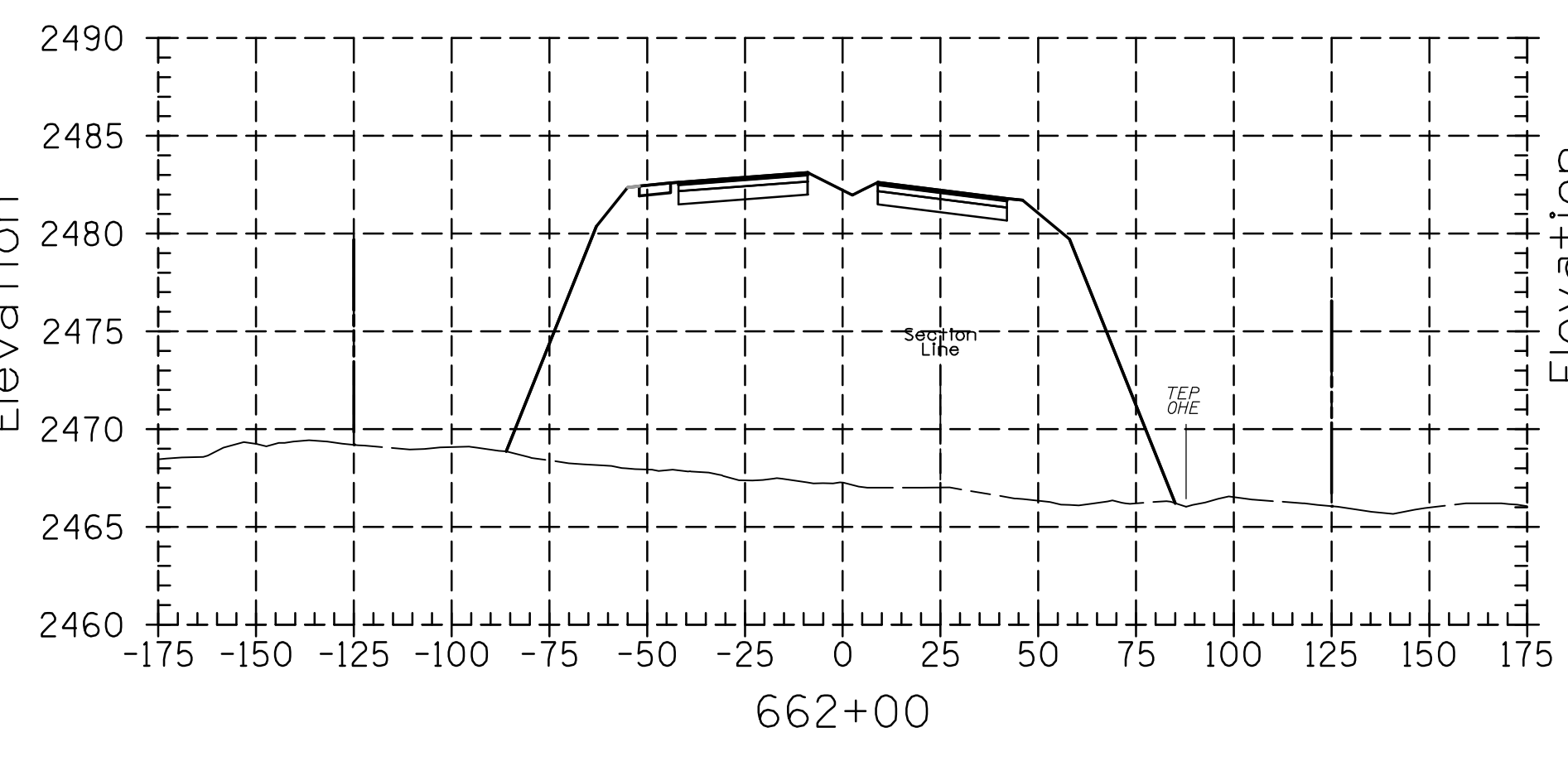
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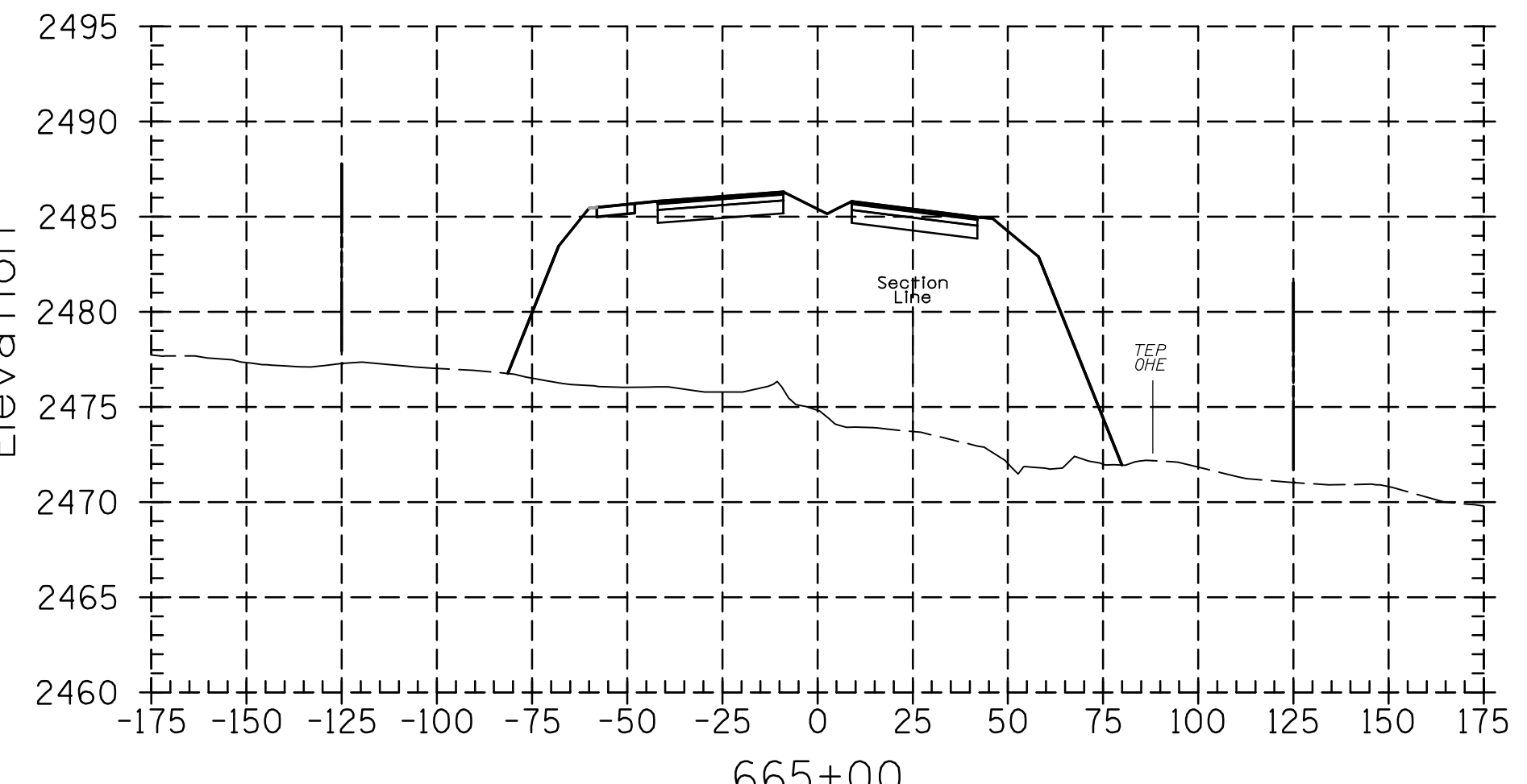
666+00



659+00



662+00



665+00

STA 659+00 TO STA 667+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS19 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
 STA 659+00 TO 667+00
 TANGERINE ROAD

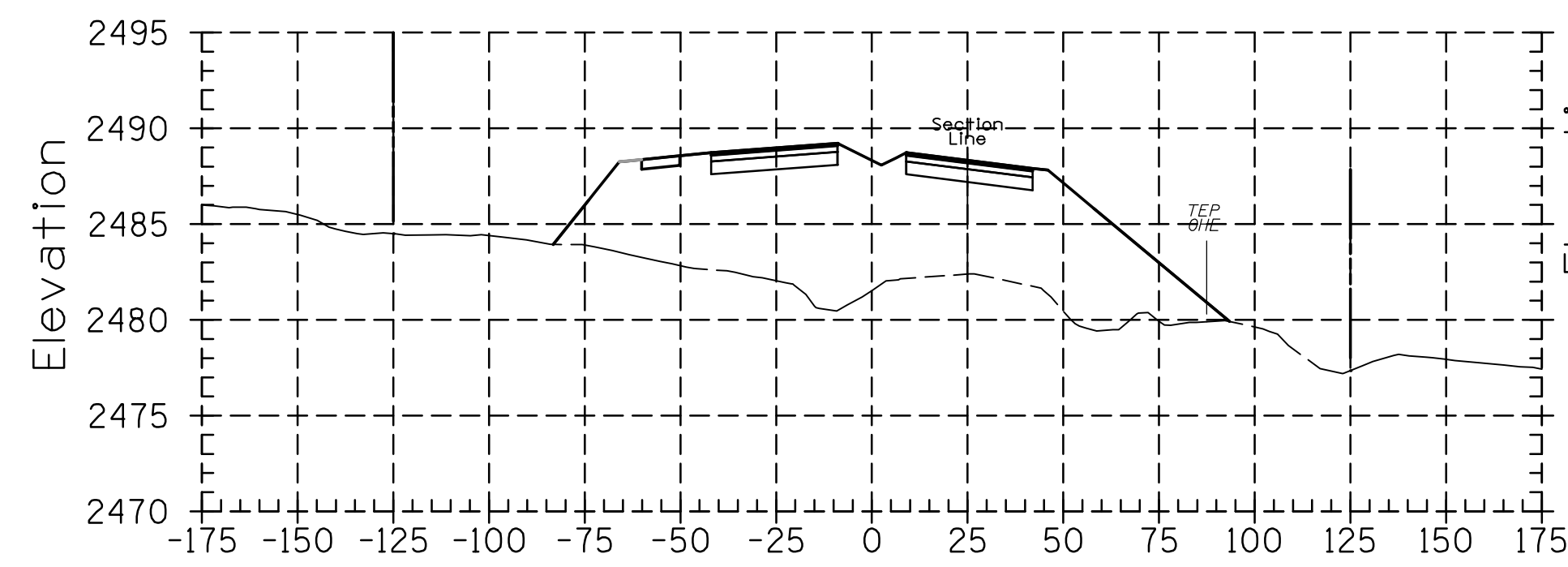
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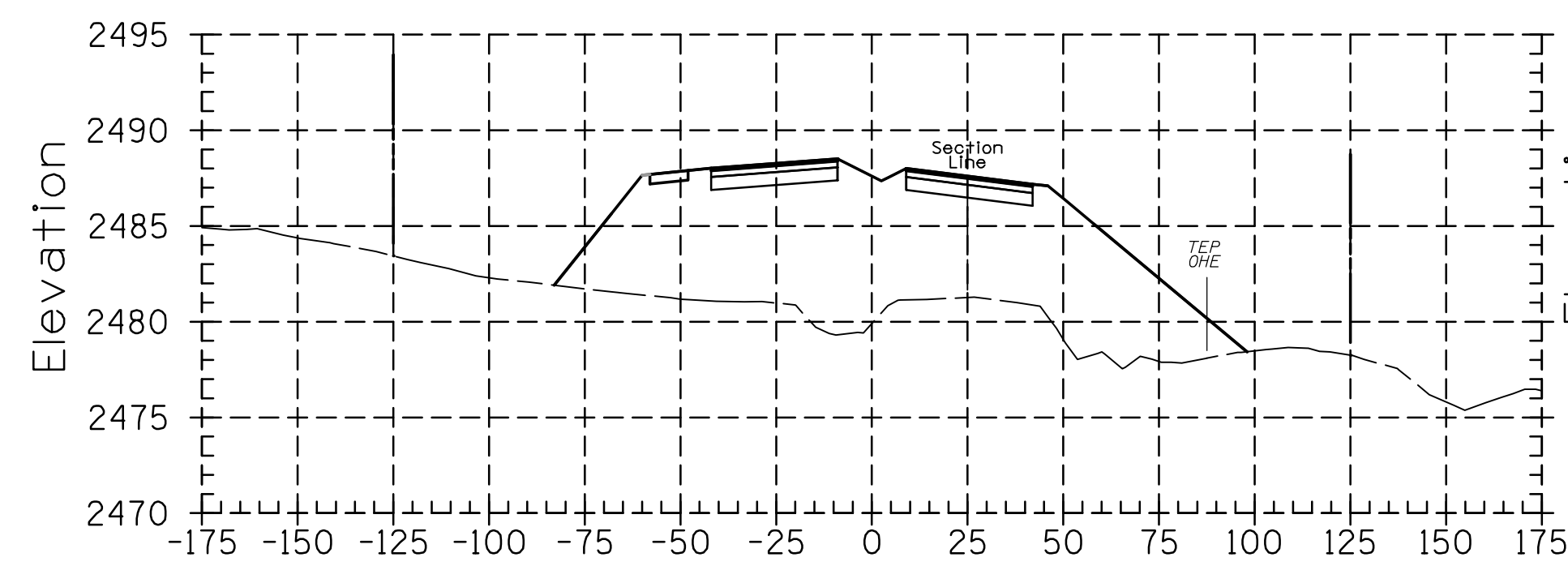
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PROJ. ENG.:	DATE
AA	12/12

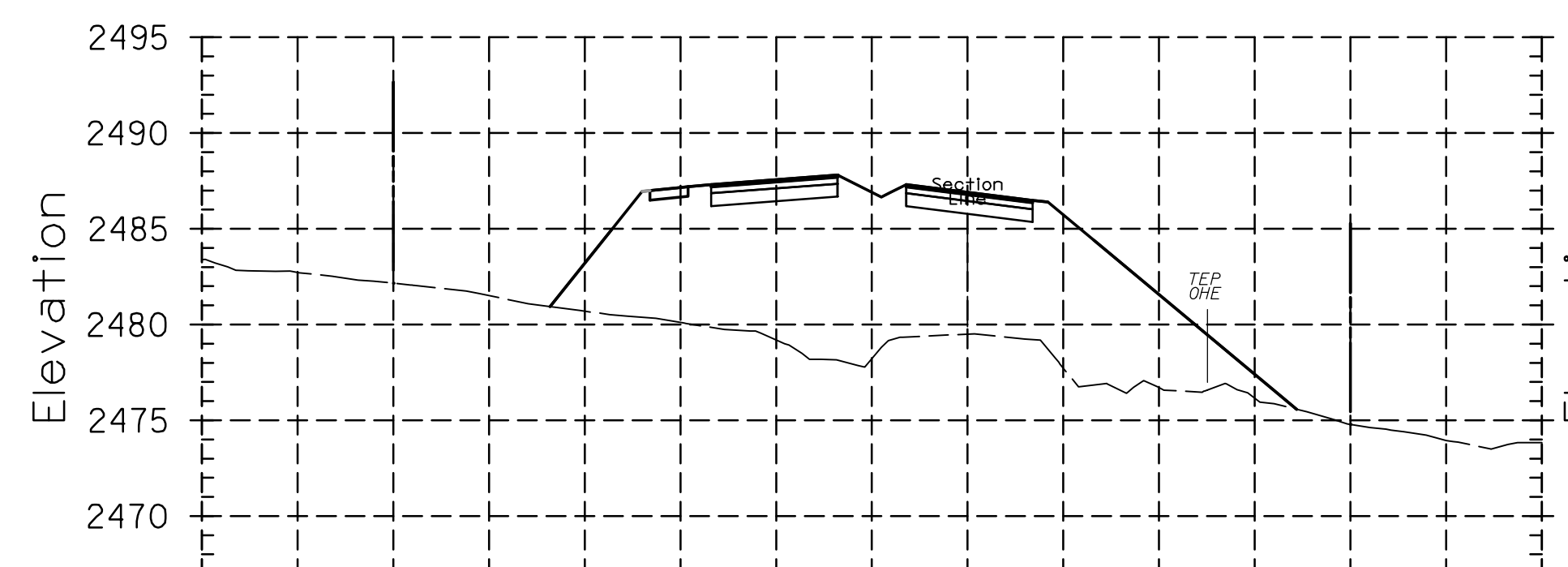
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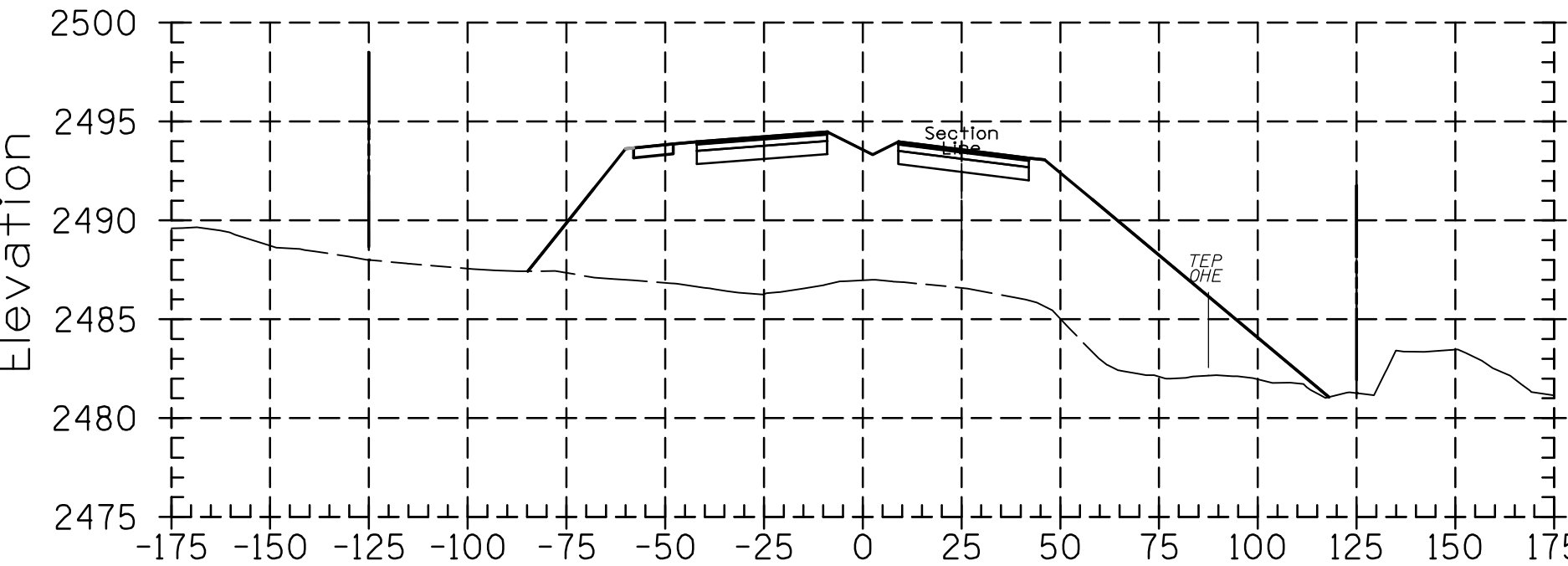
669+54



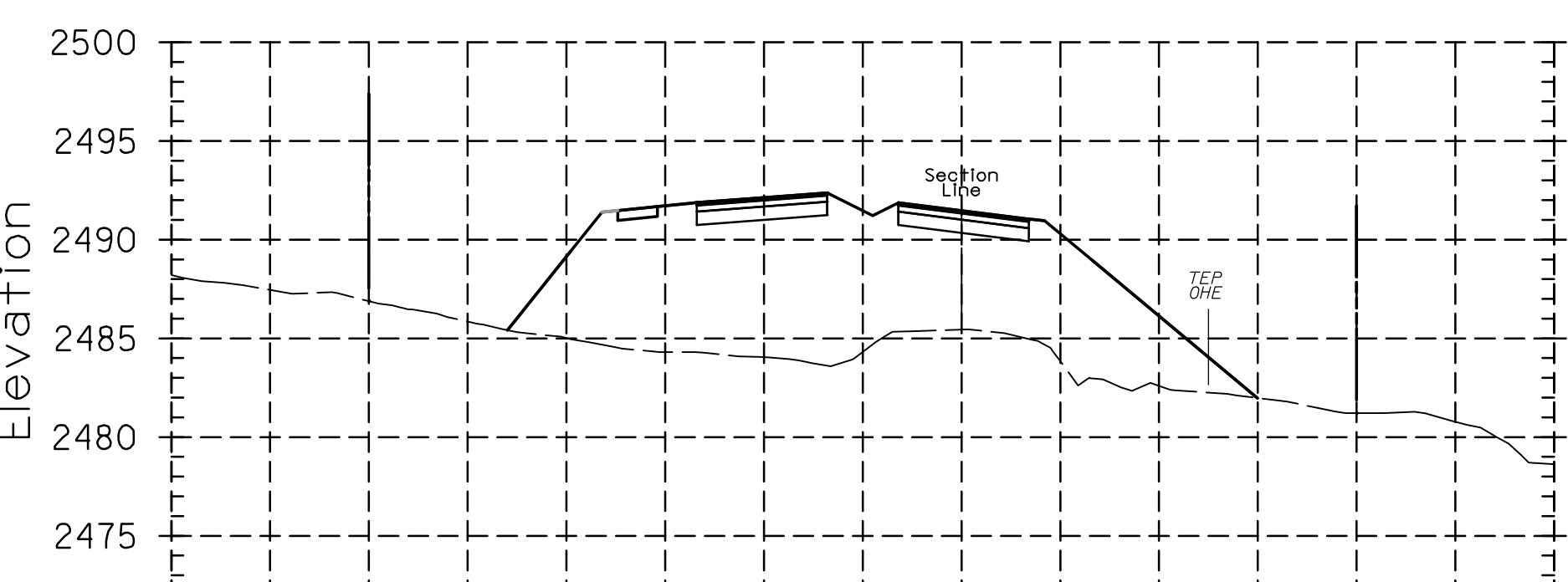
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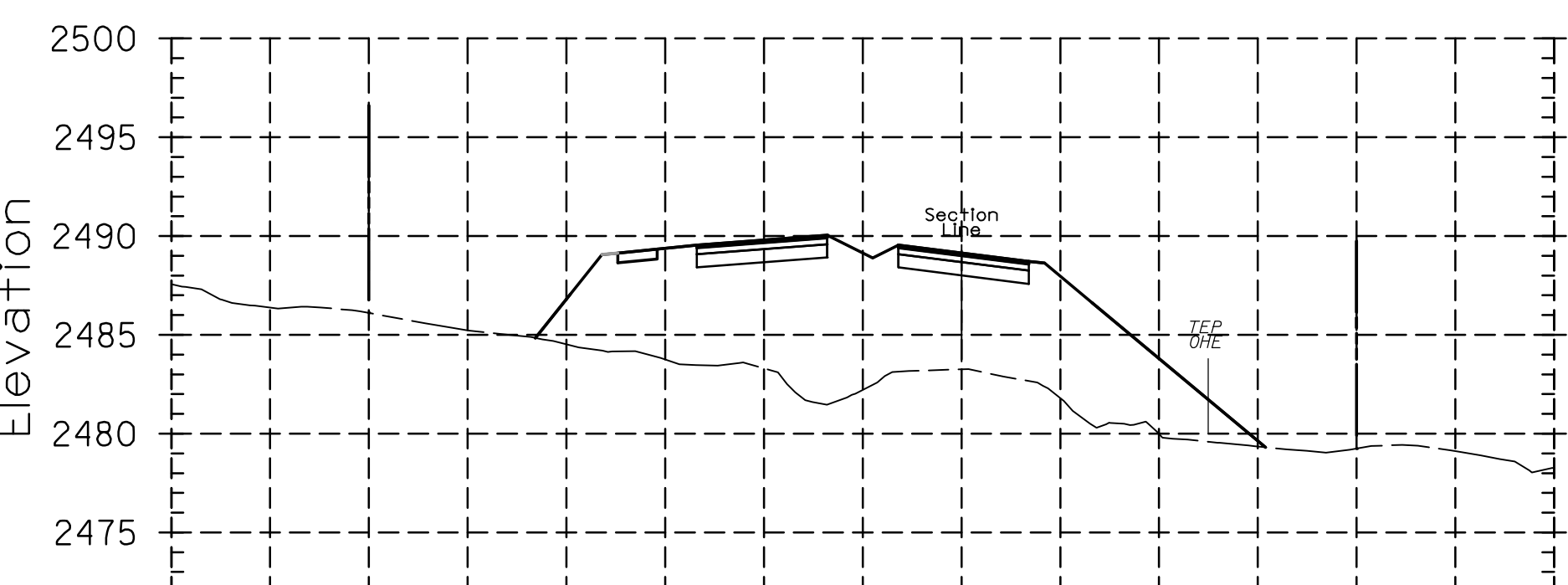
668+00



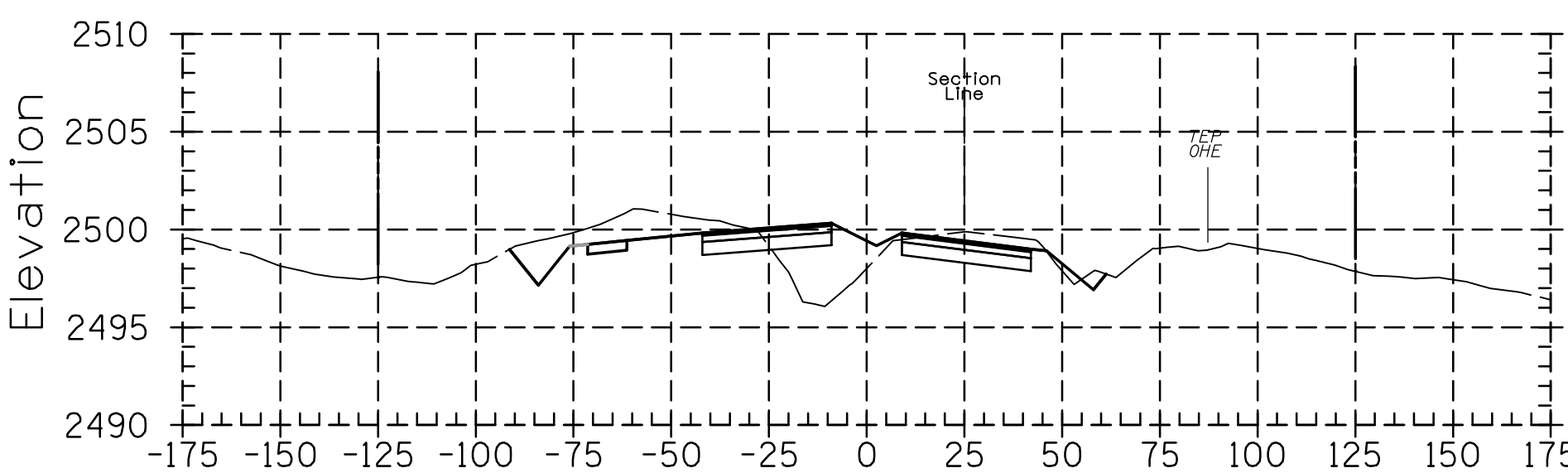
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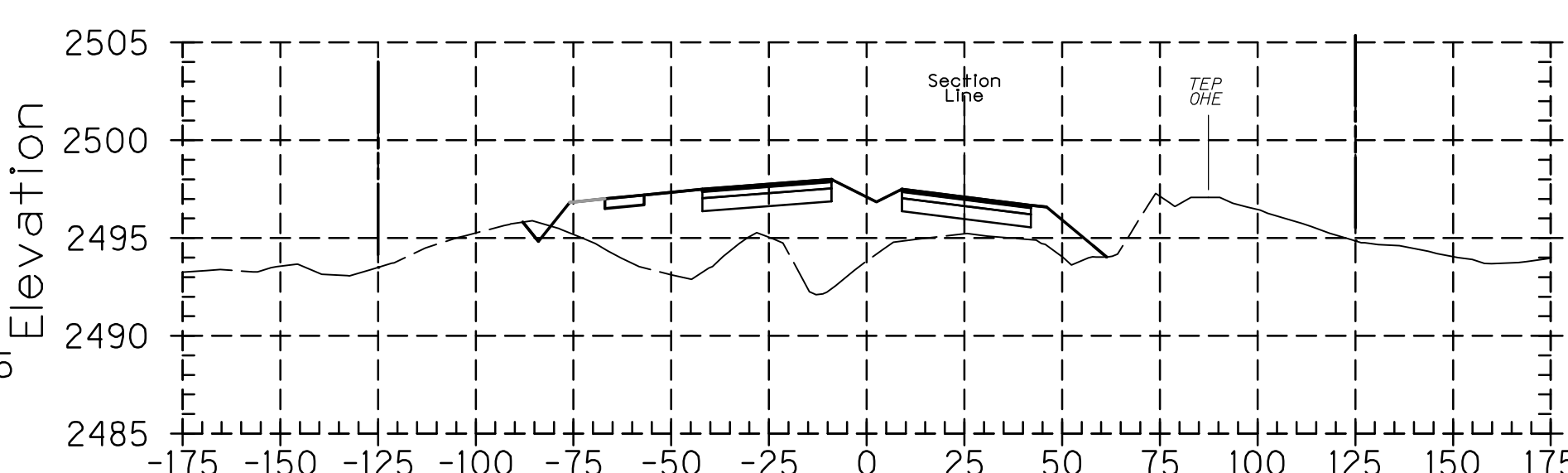
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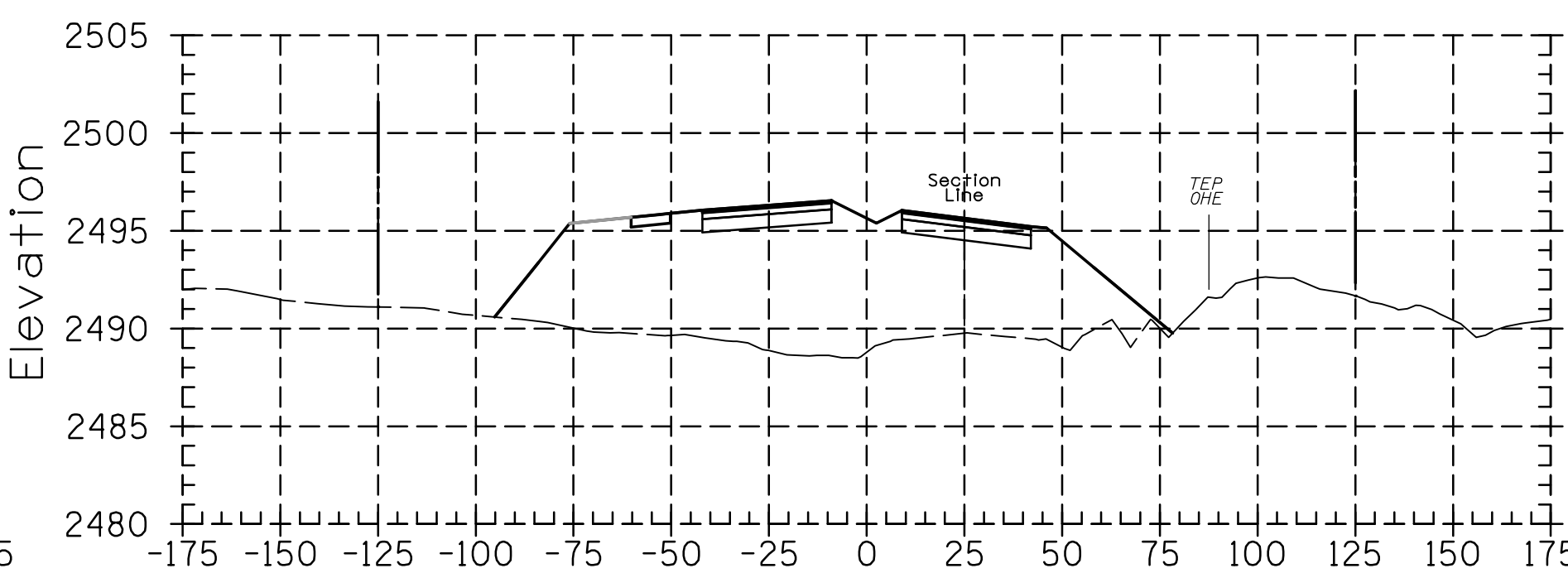
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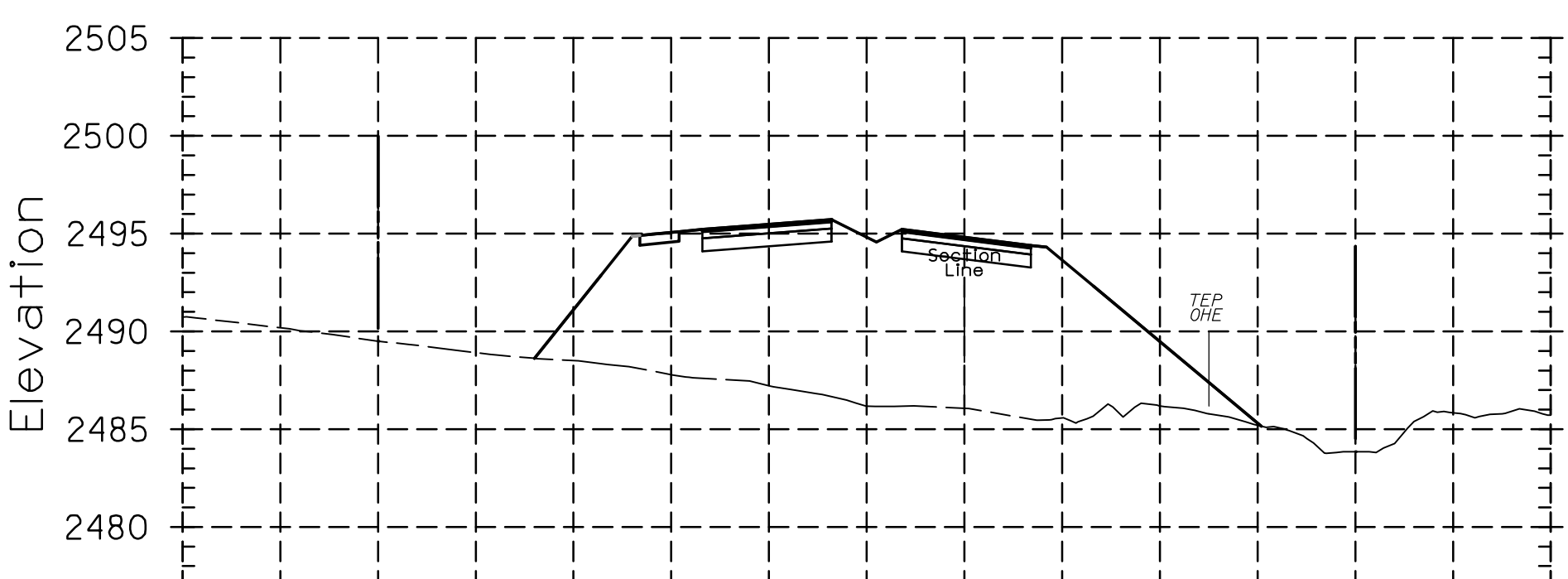
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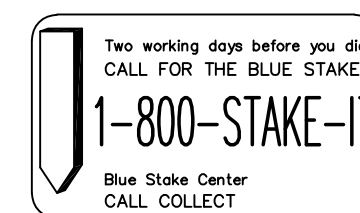


674+00



673+00

STA 668+00 TO STA 676+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS20 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
 STA 668+00 TO 676+00
 TANGERINE ROAD

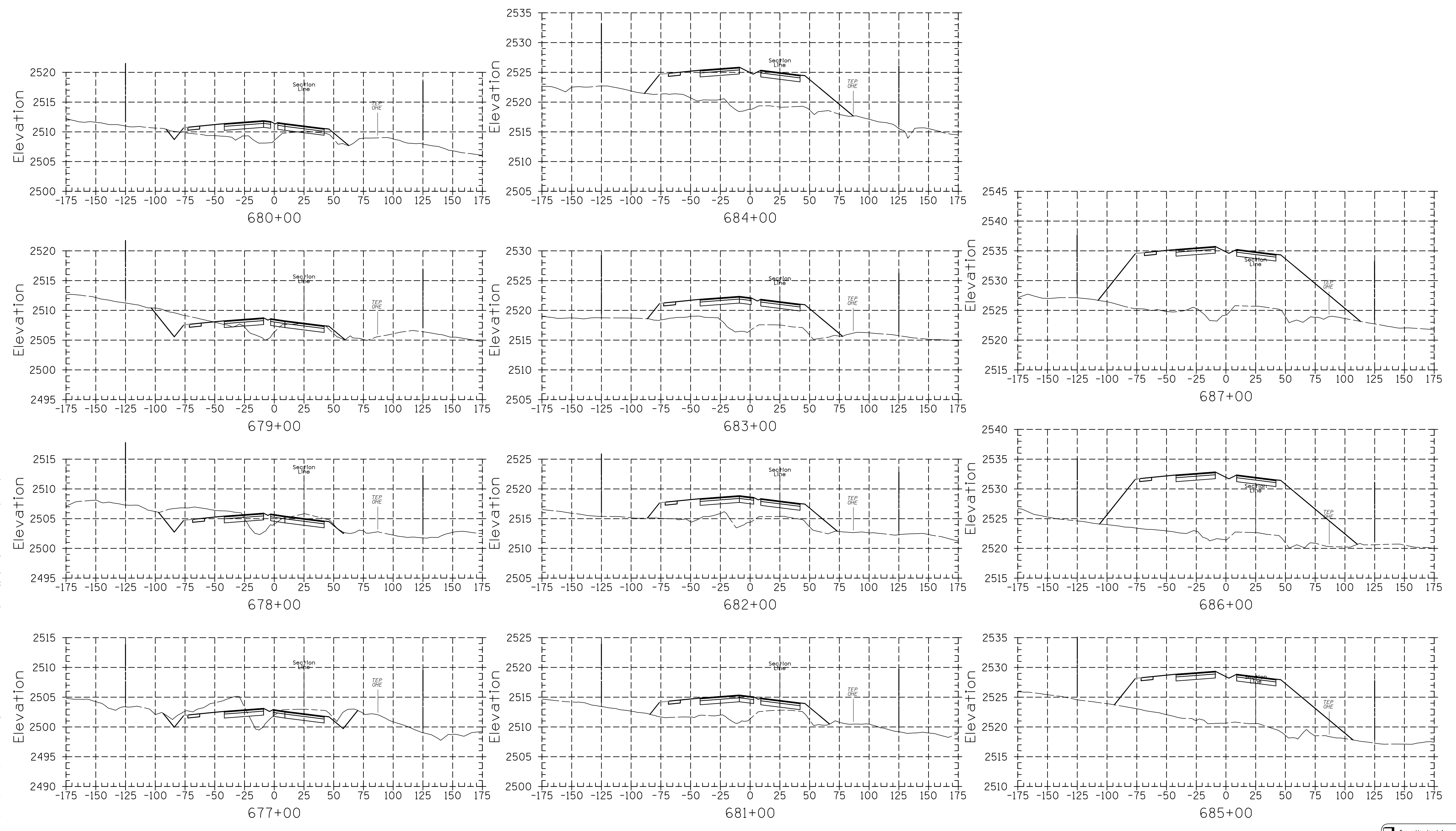
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STA 677+00 TO STA 687+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS21 OF XS31

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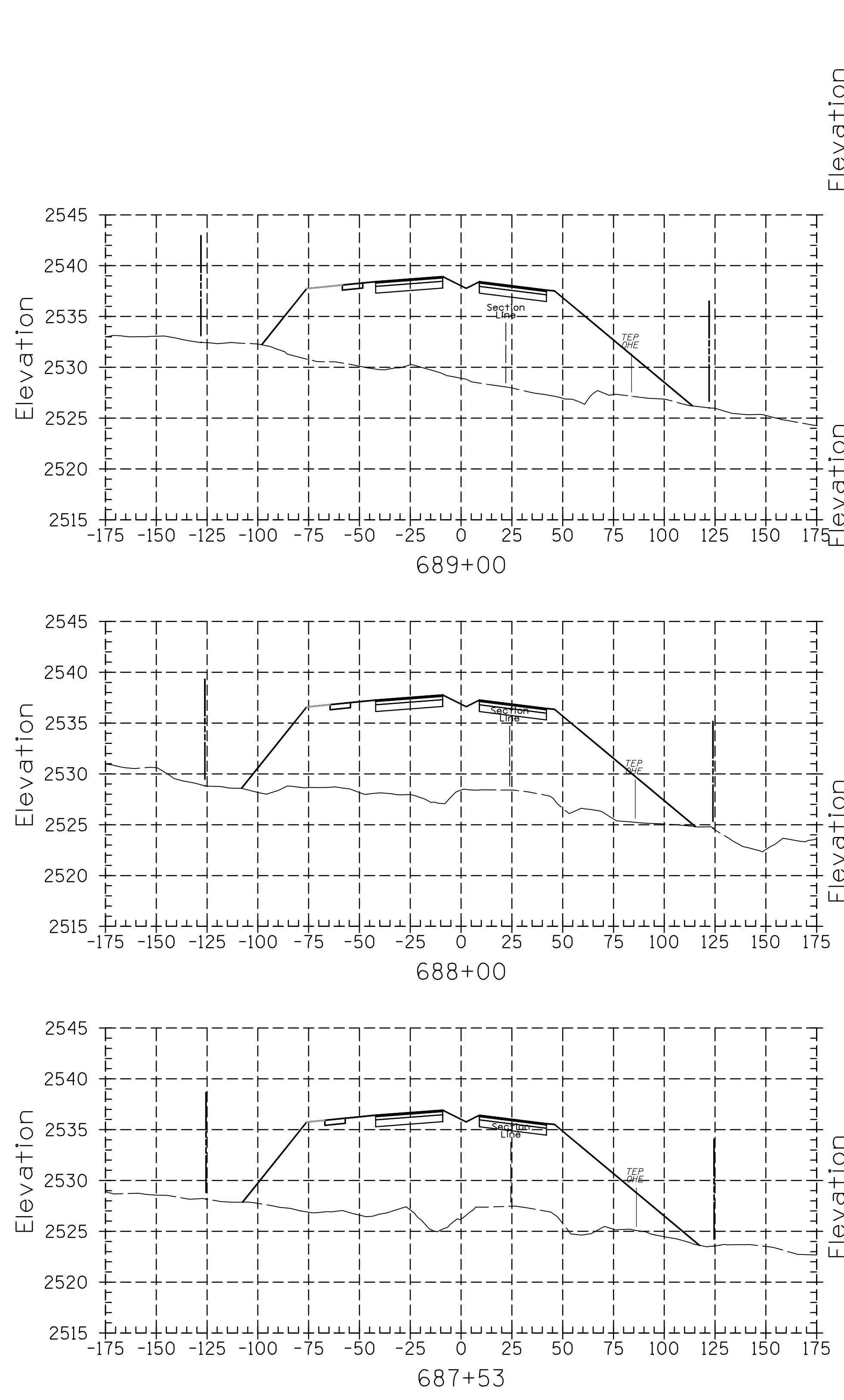
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CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 677+00 TO 687+00
 TANGERINE ROAD

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STA 687+53 TO STA 696+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS22 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 687+53 TO 696+00
 TANGERINE ROAD

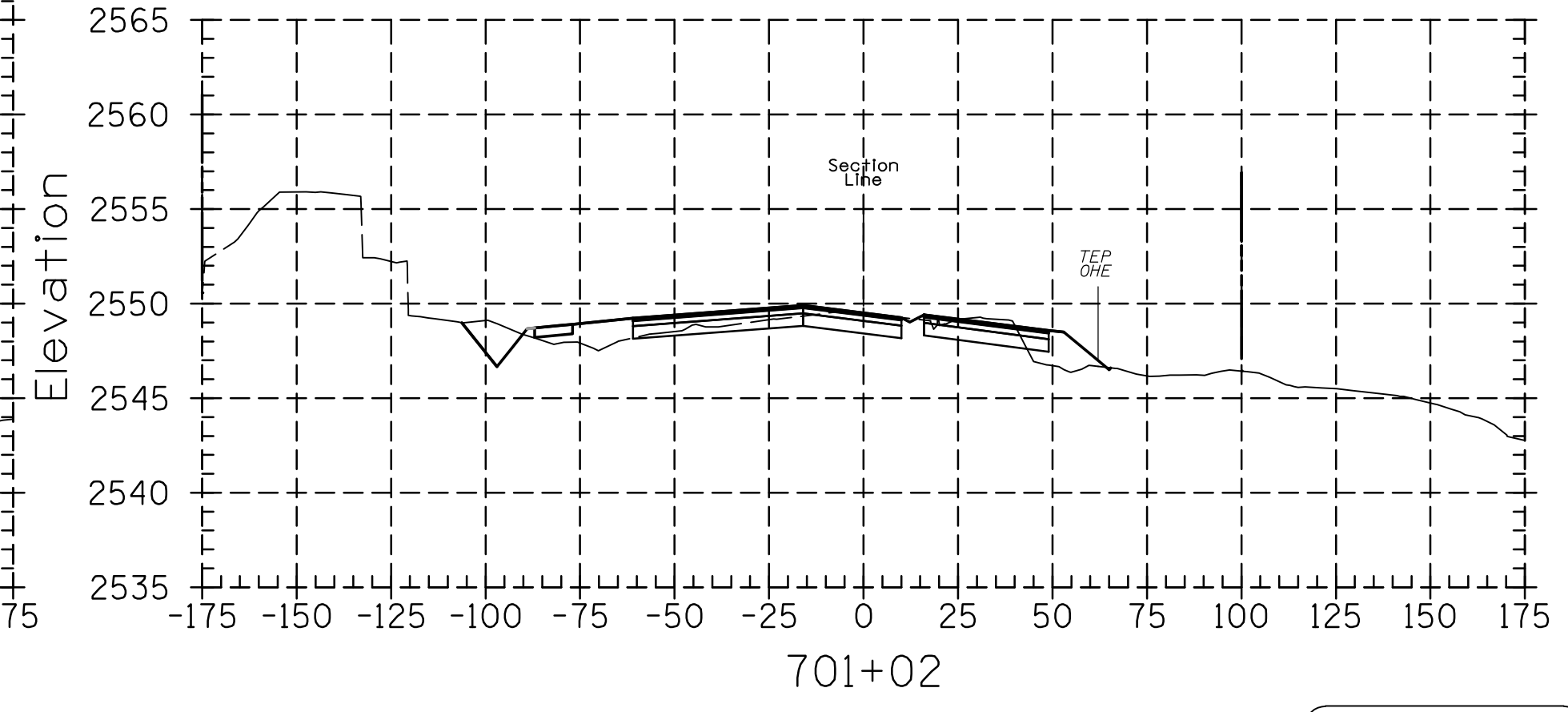
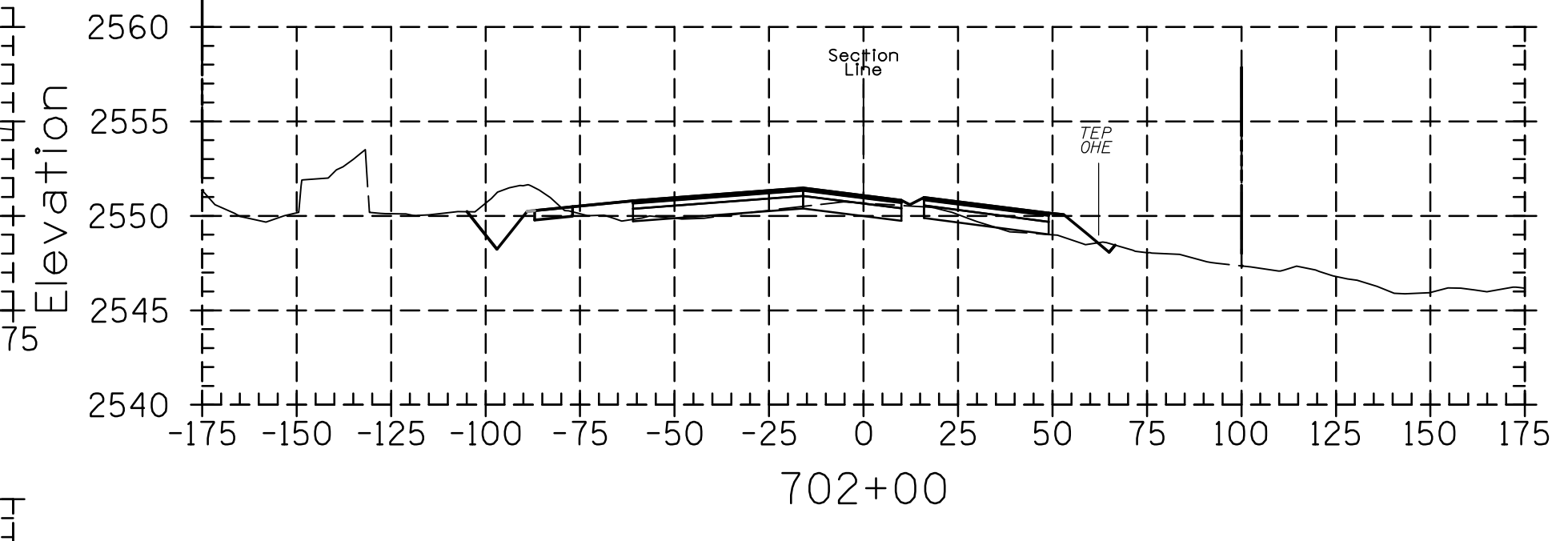
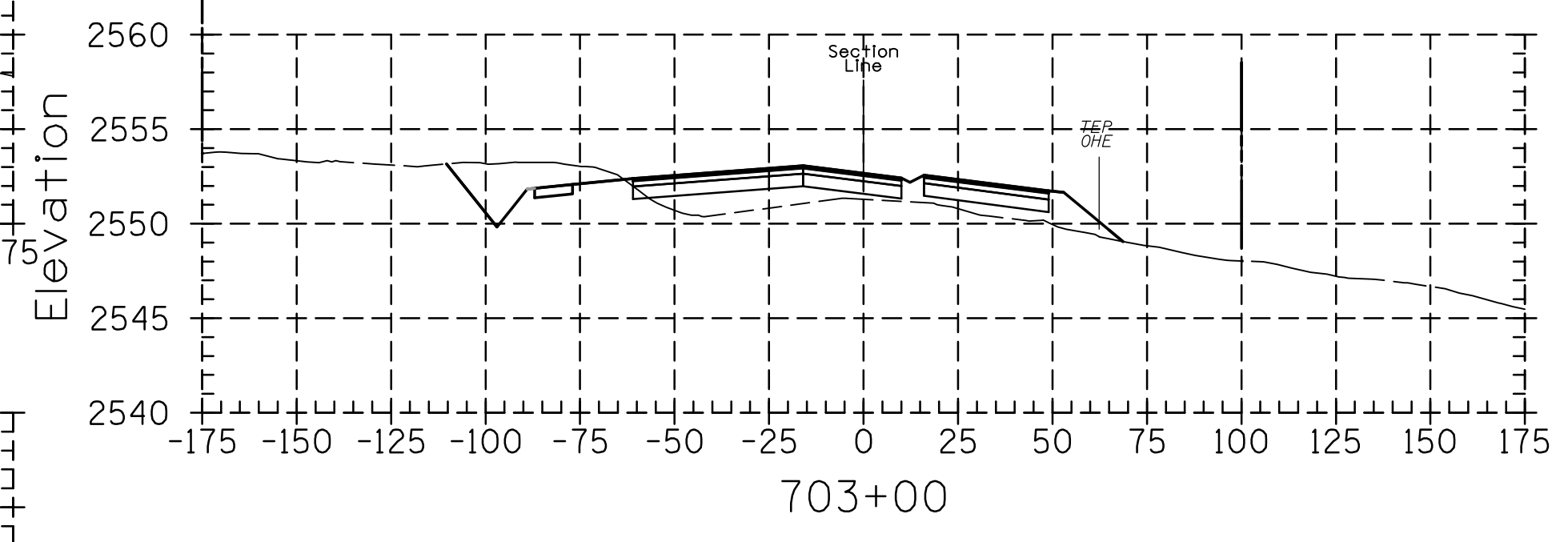
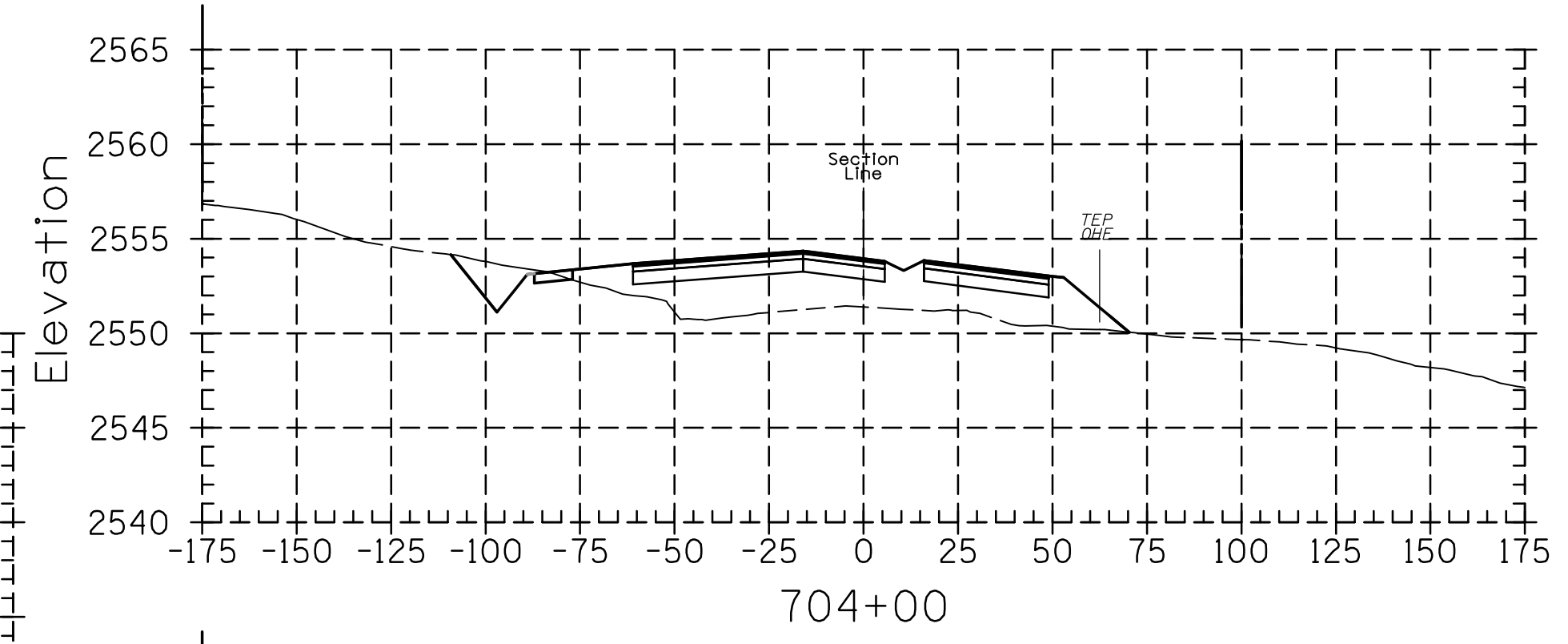
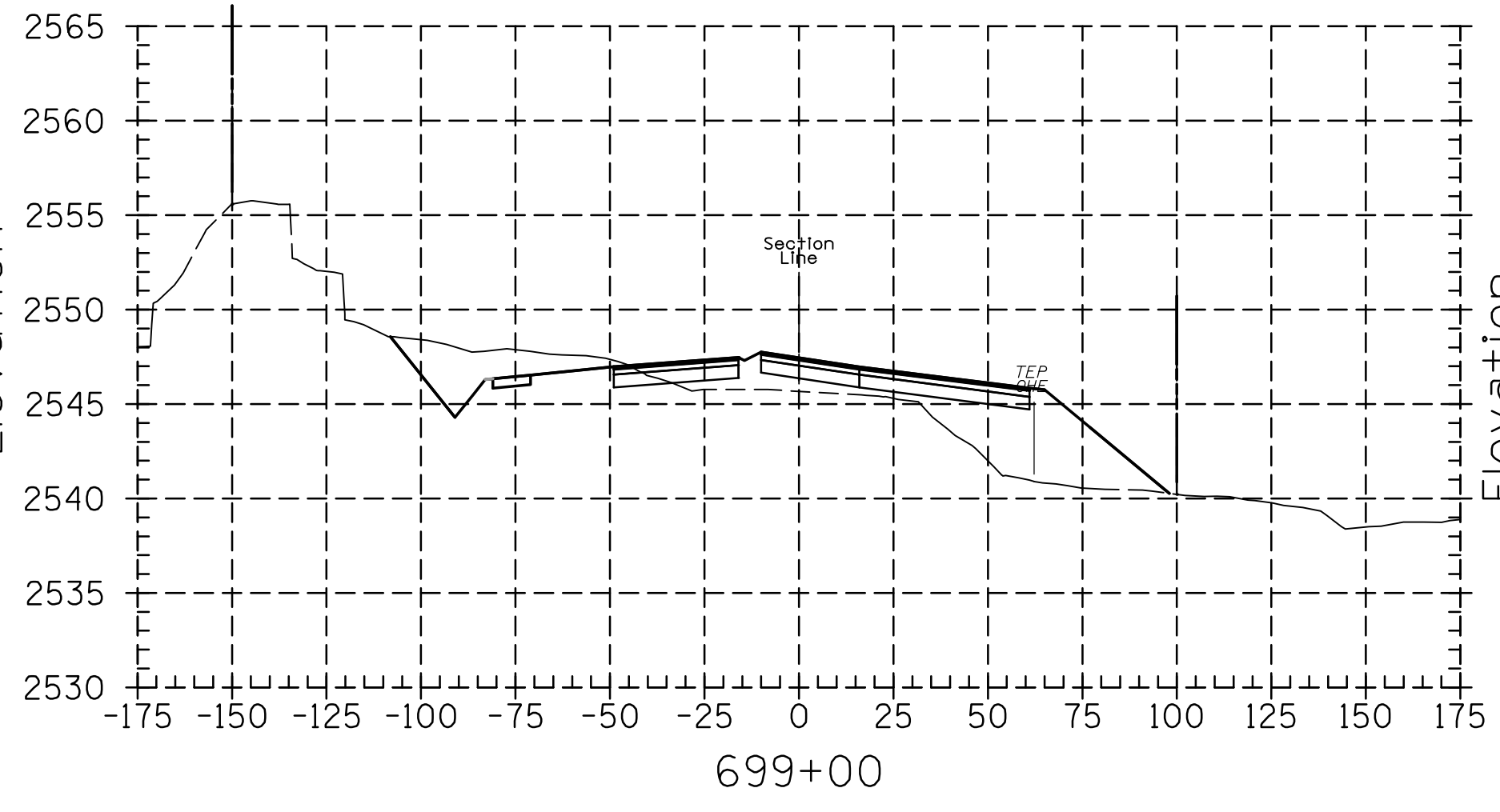
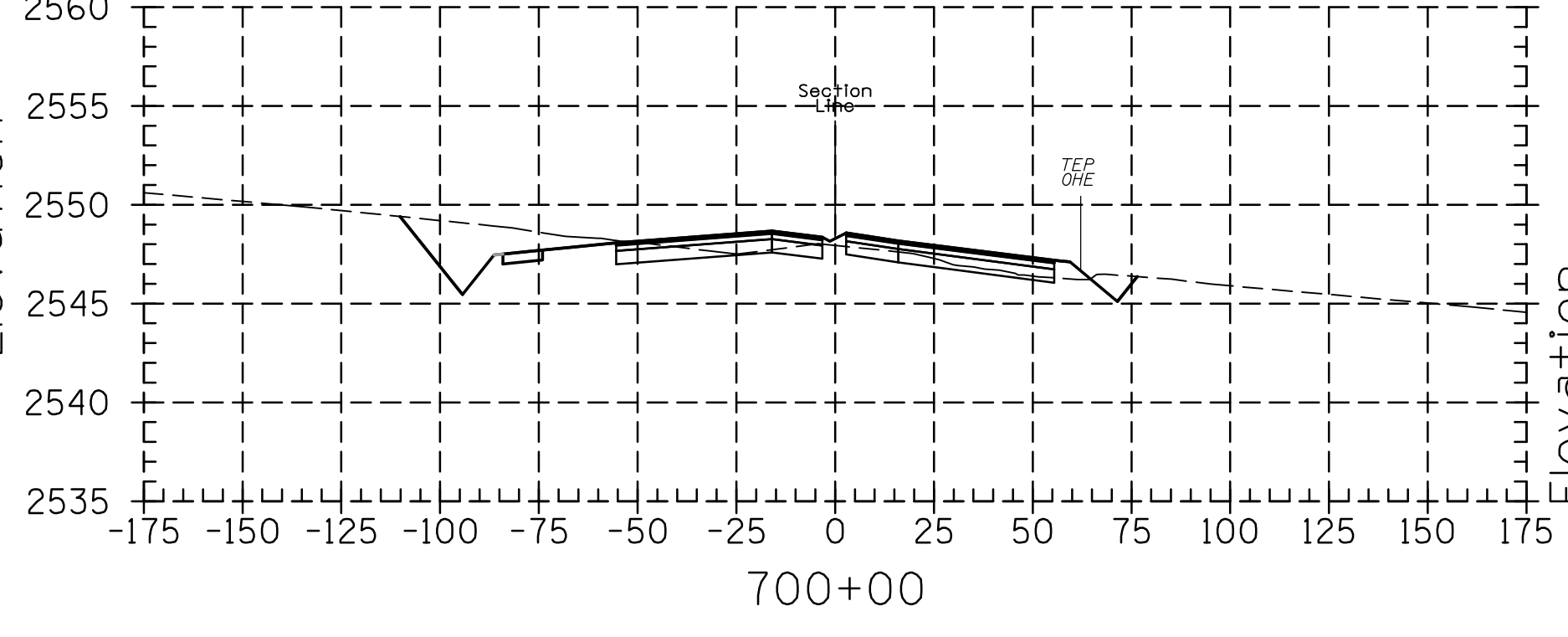
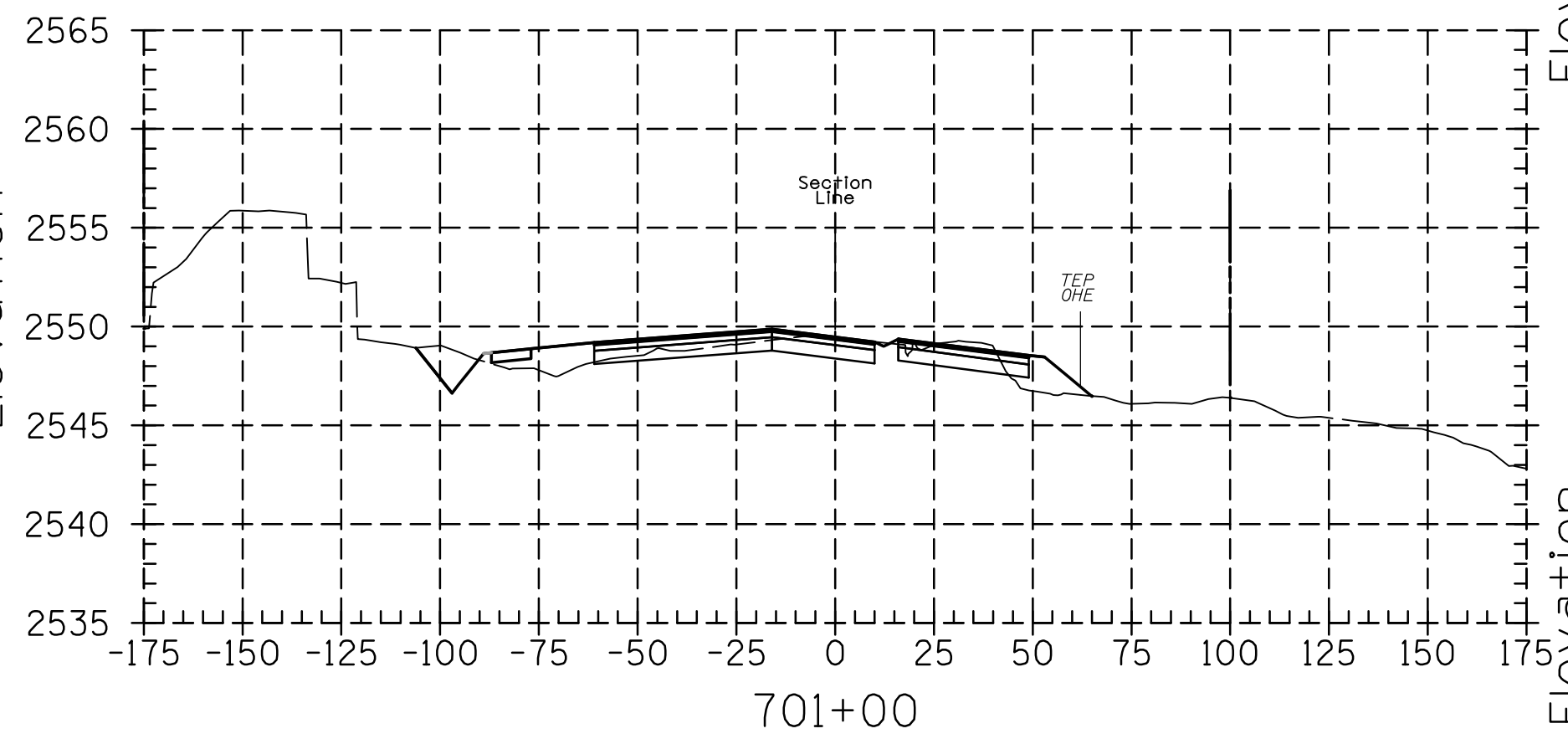
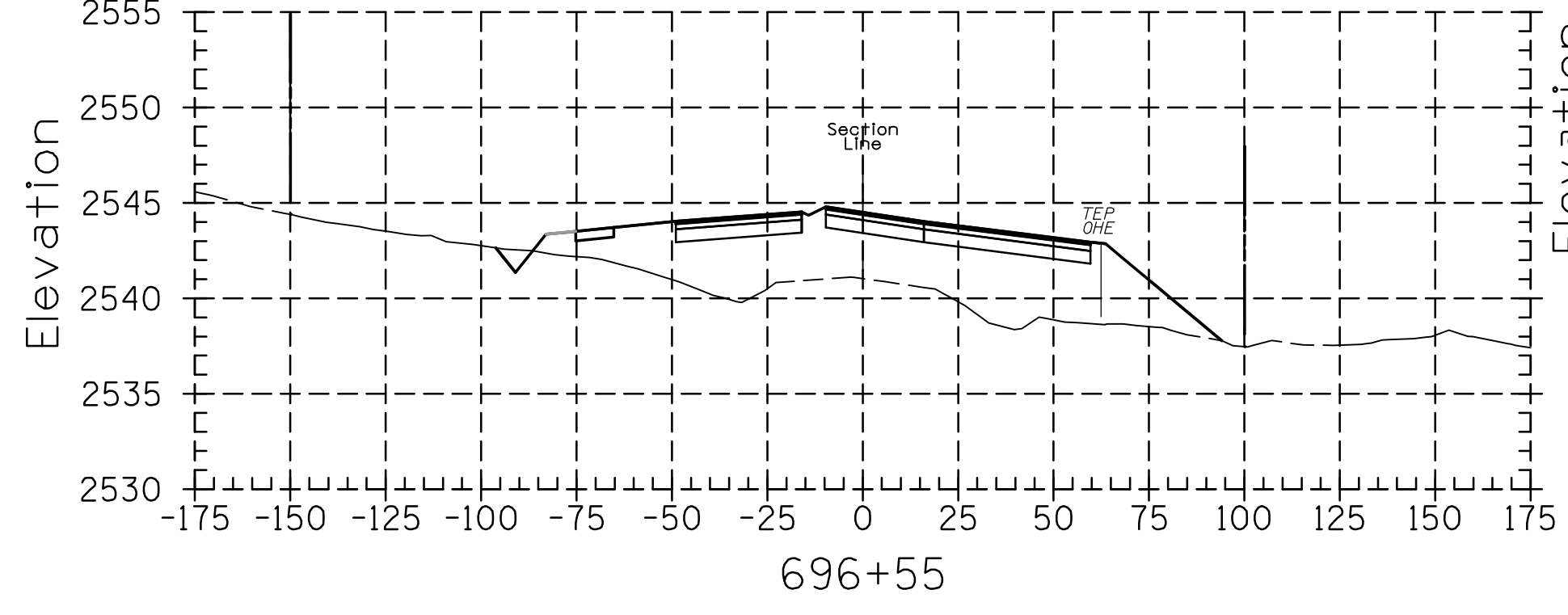
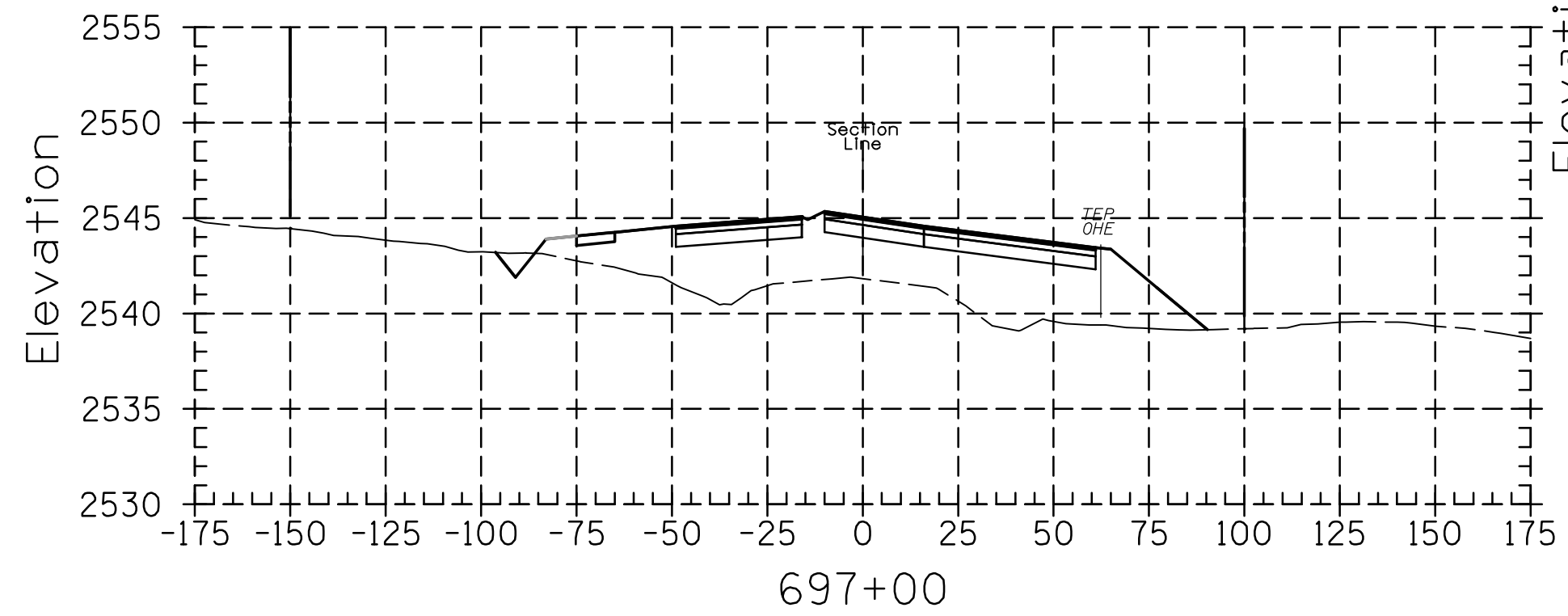
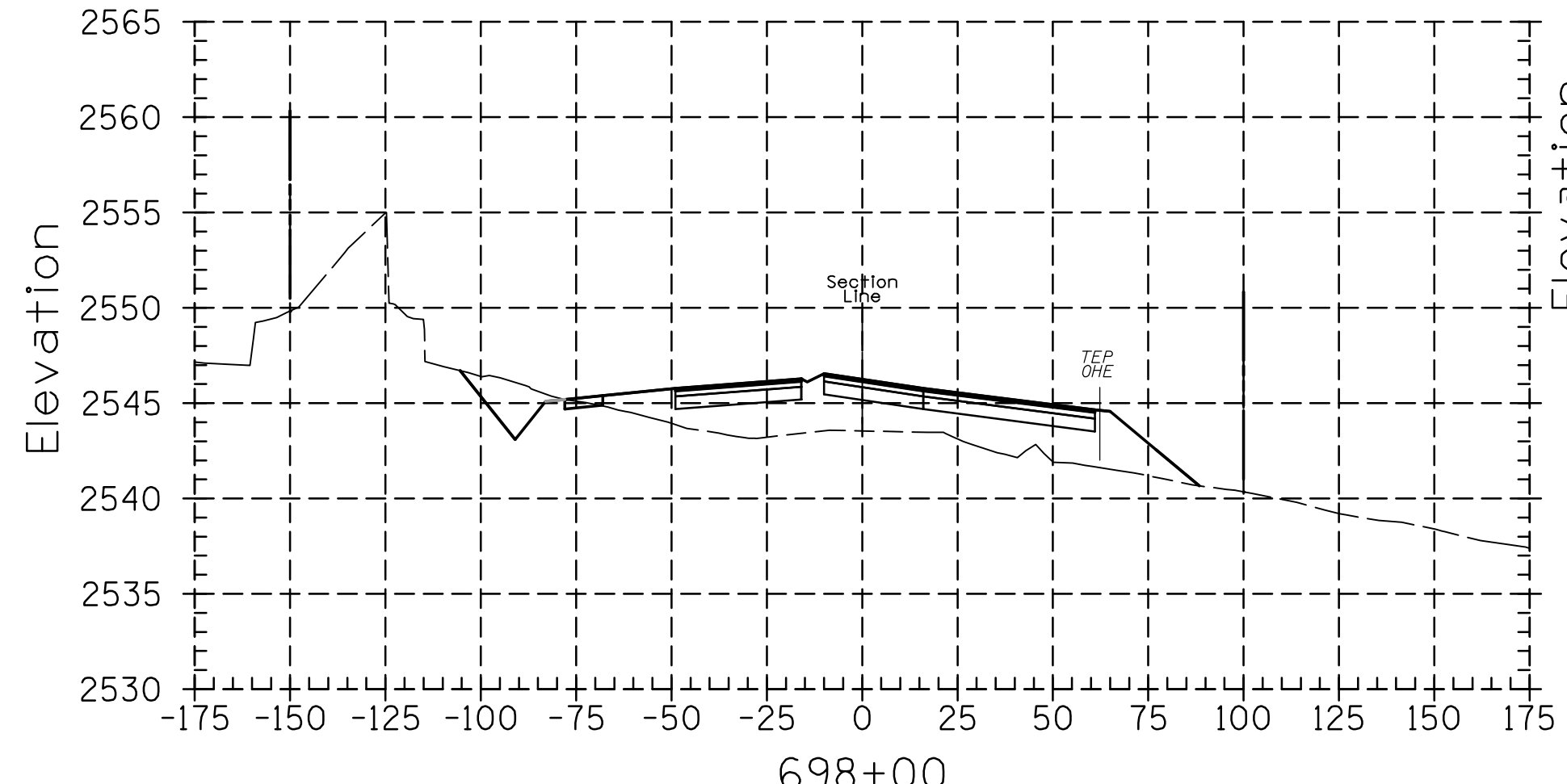
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STA 696+55 TO STA 704+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS23 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

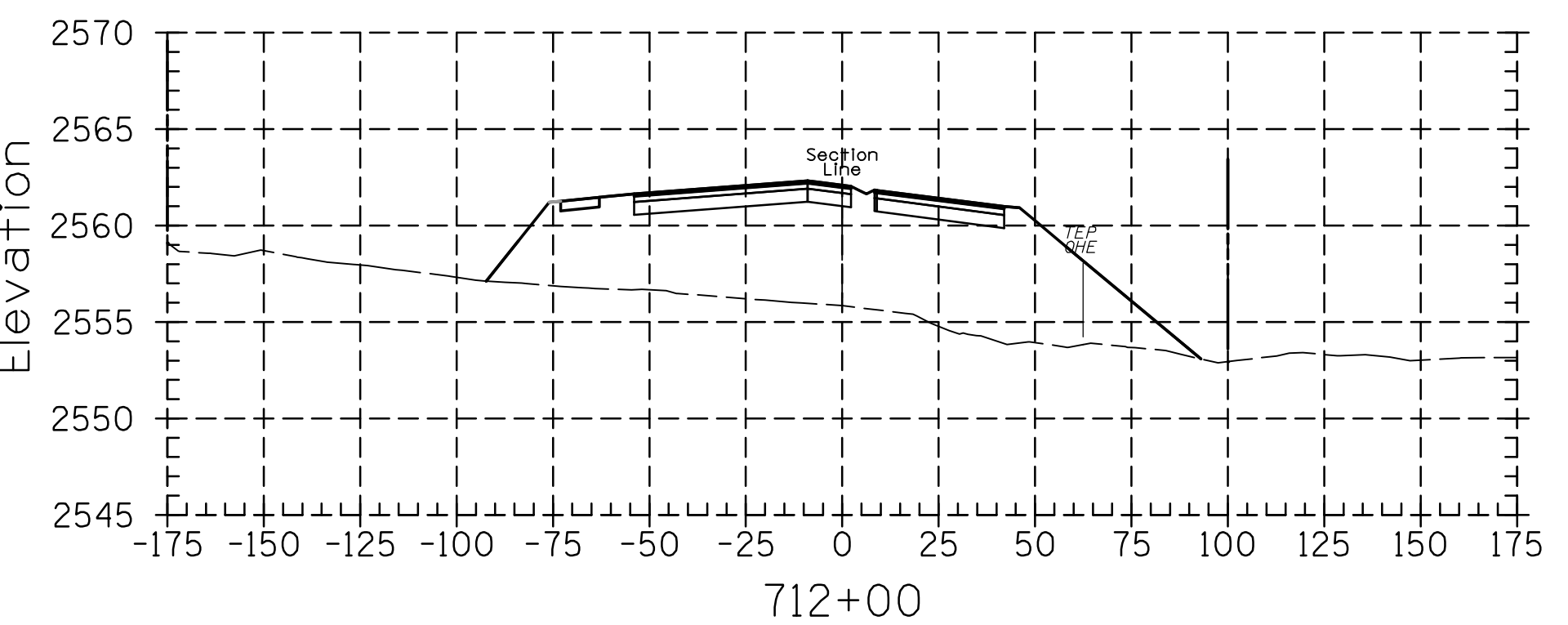
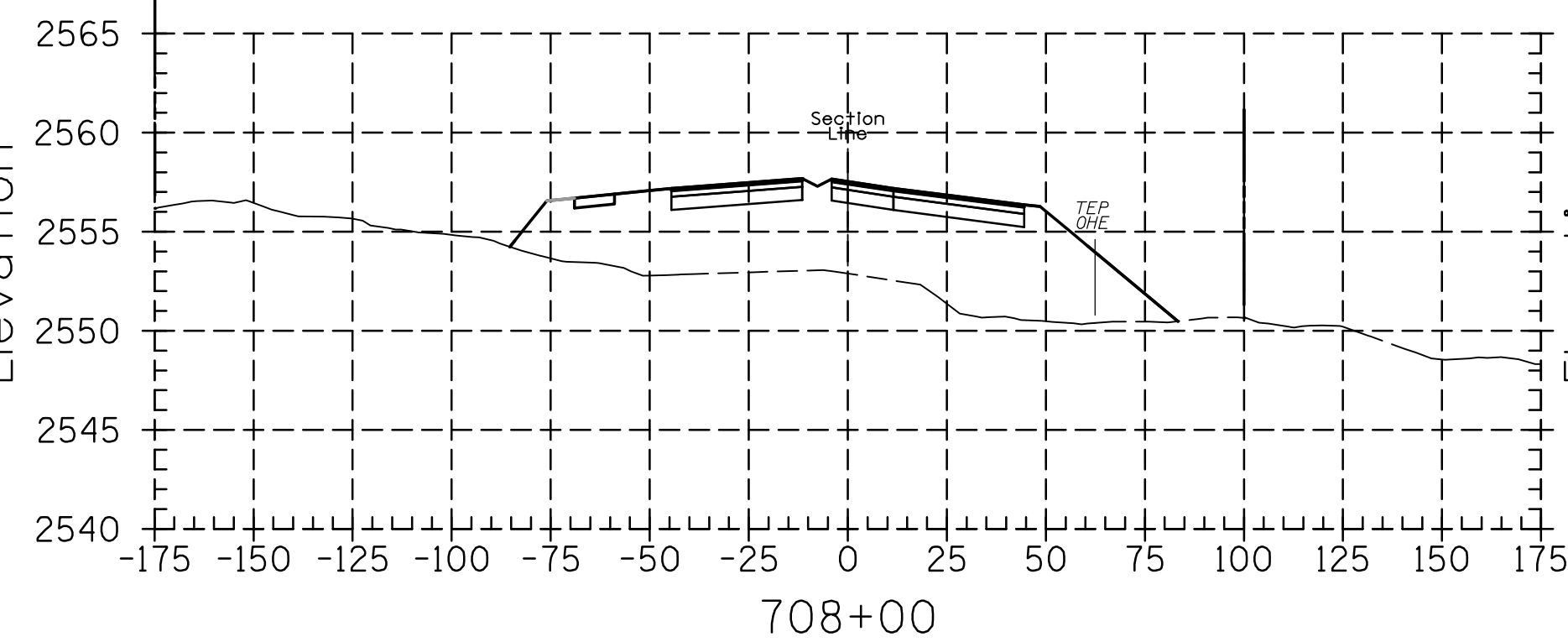
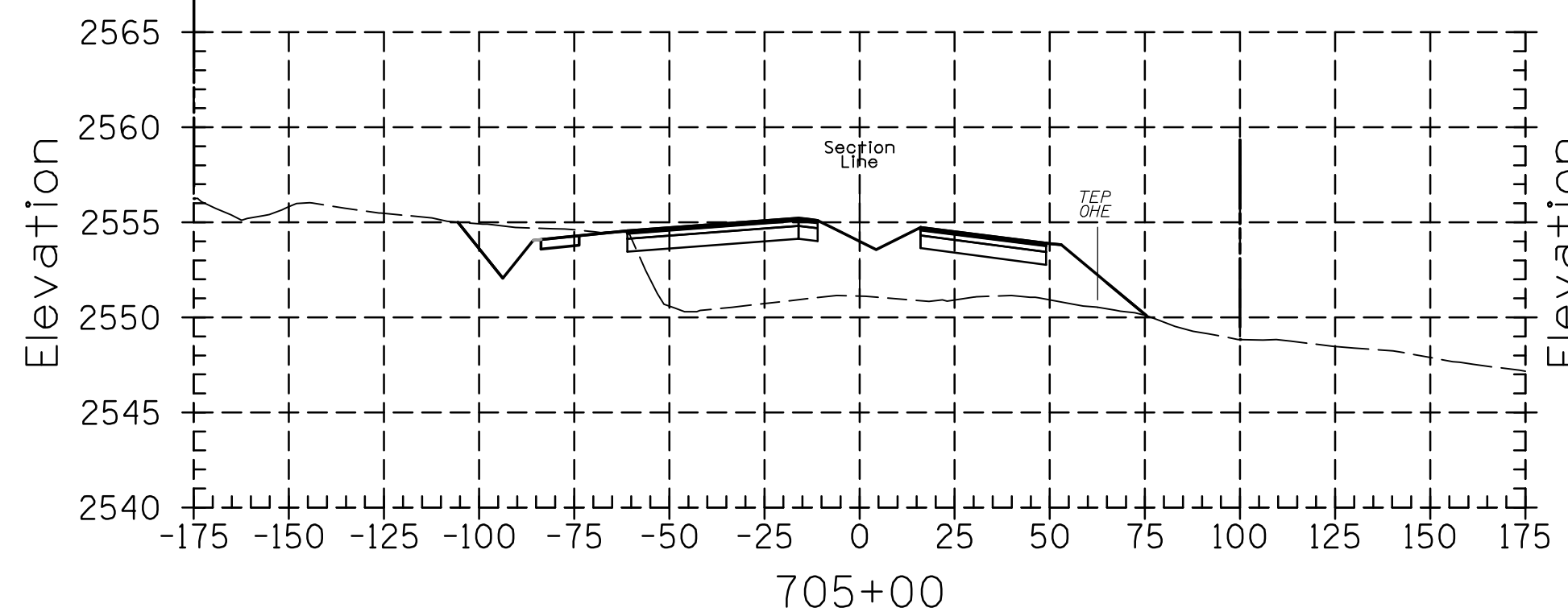
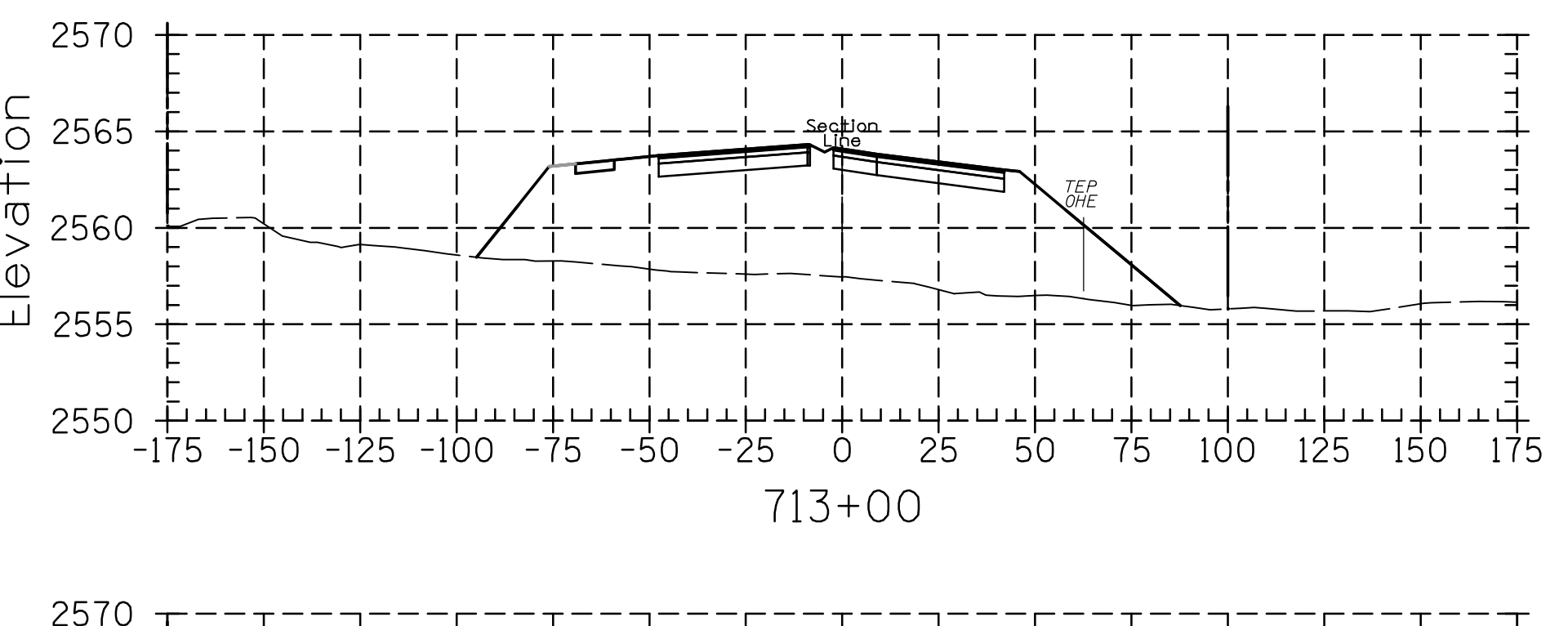
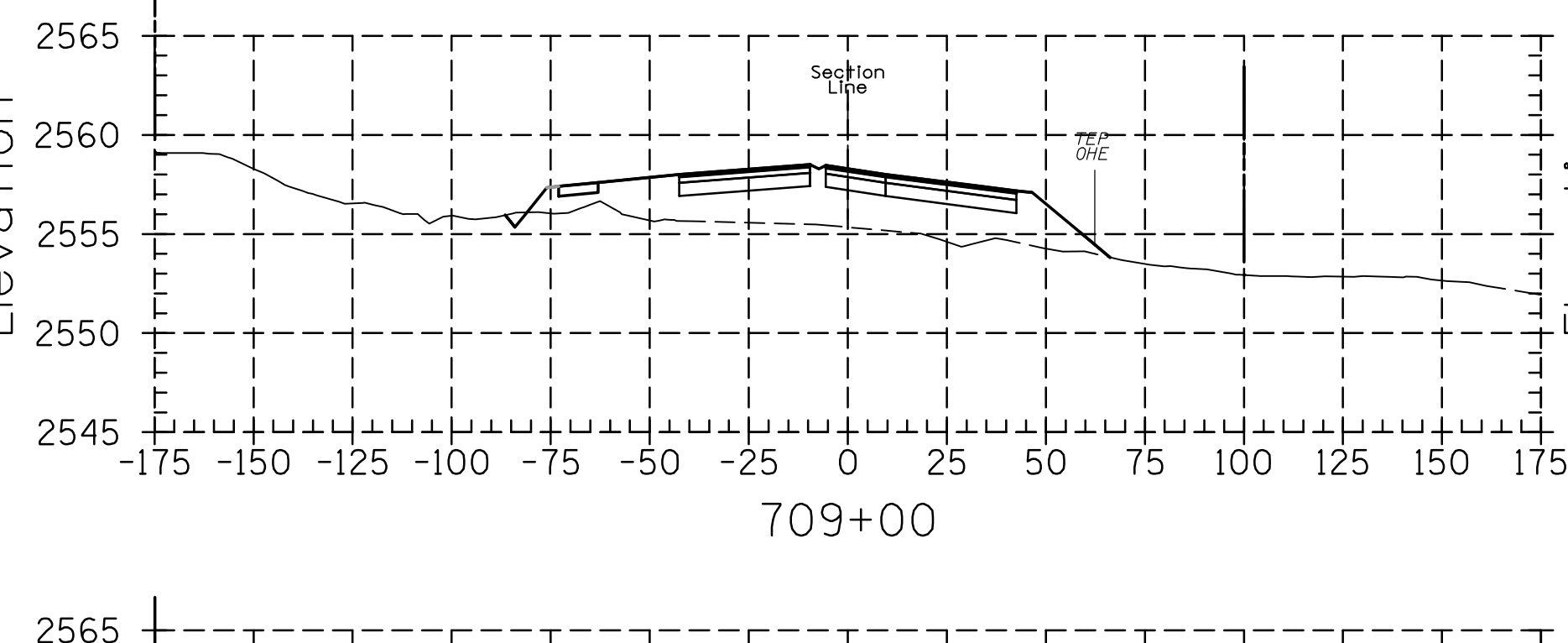
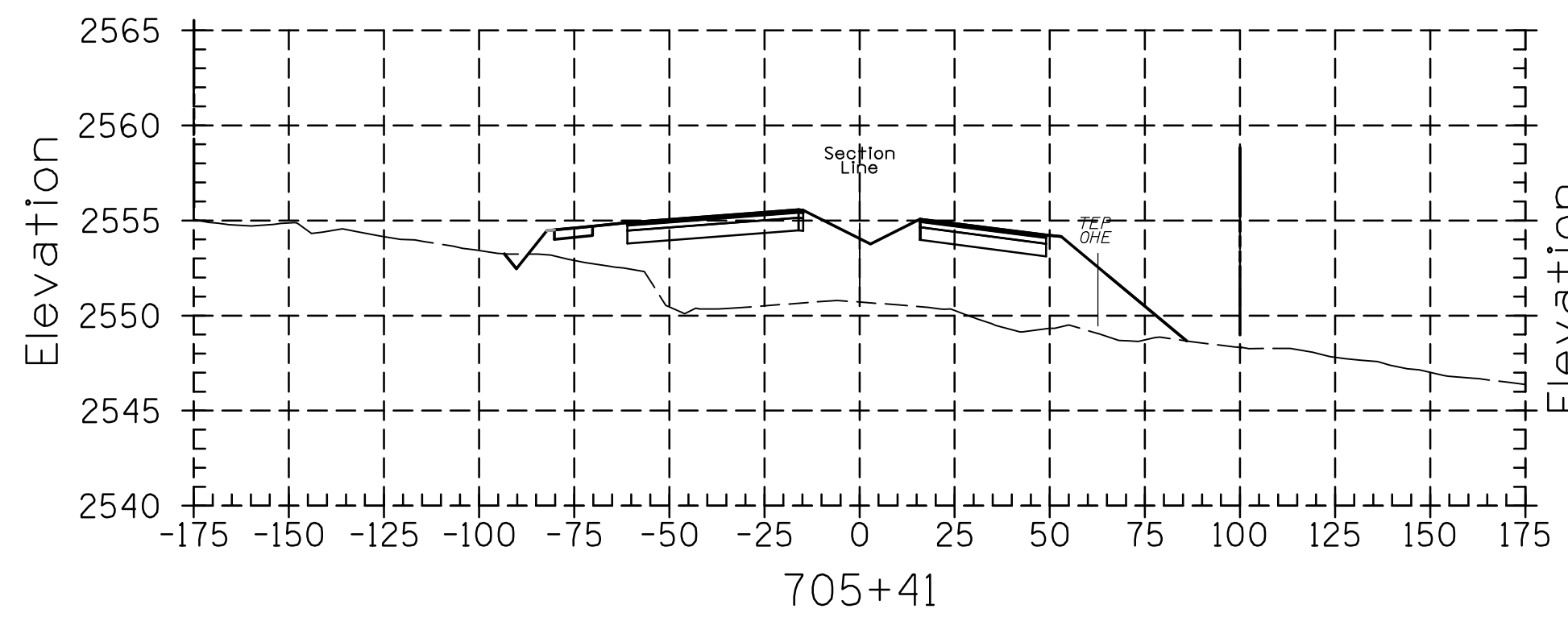
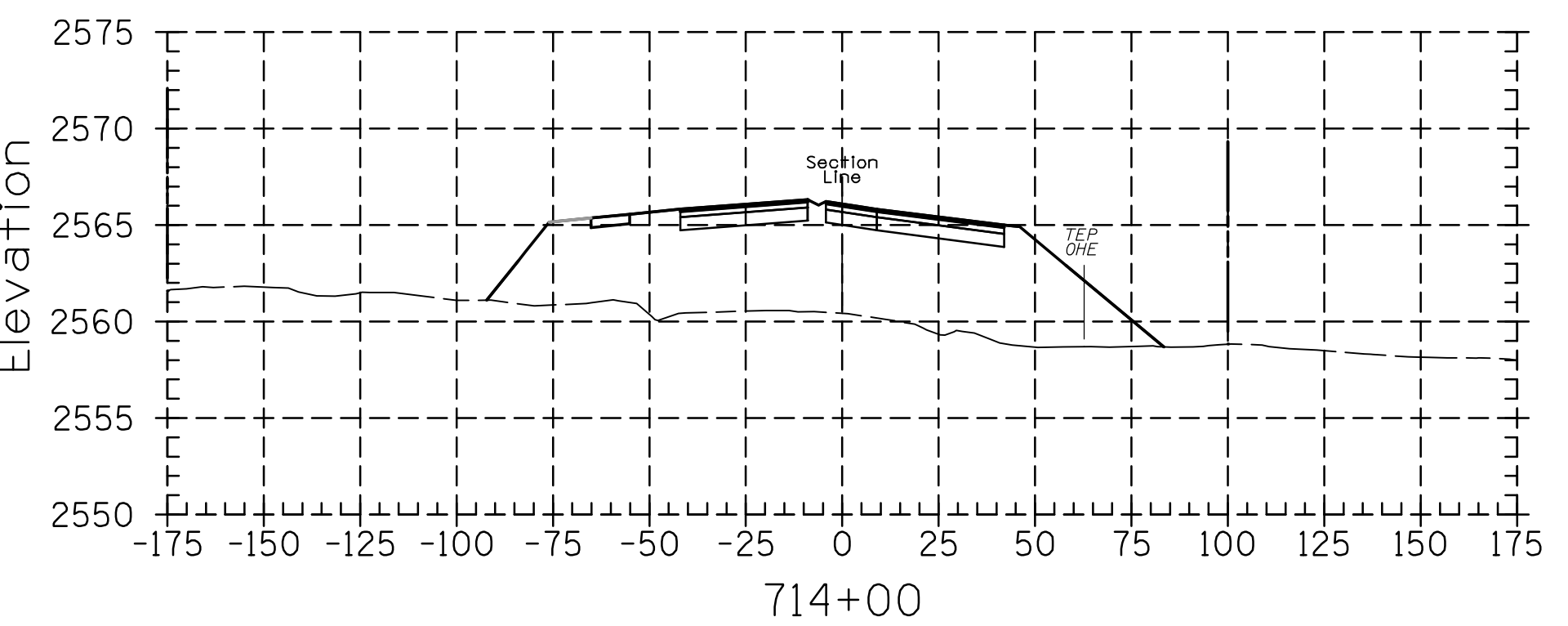
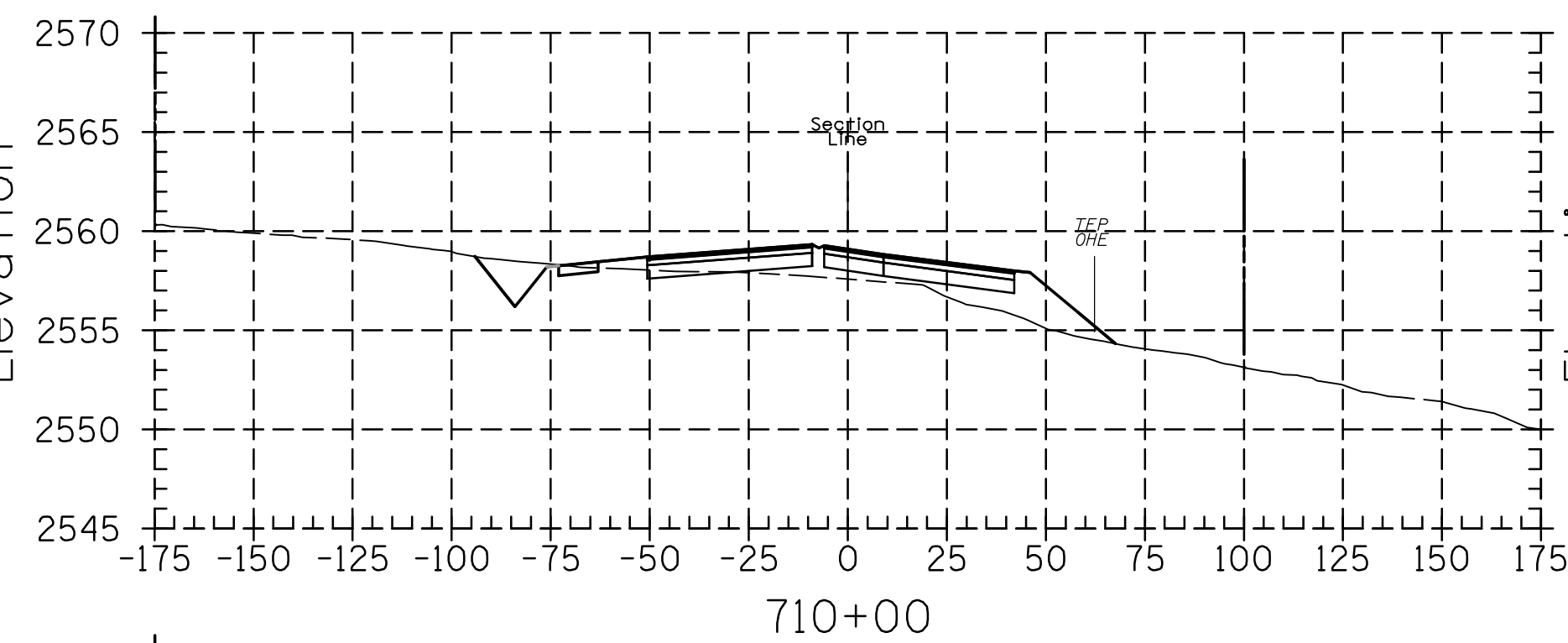
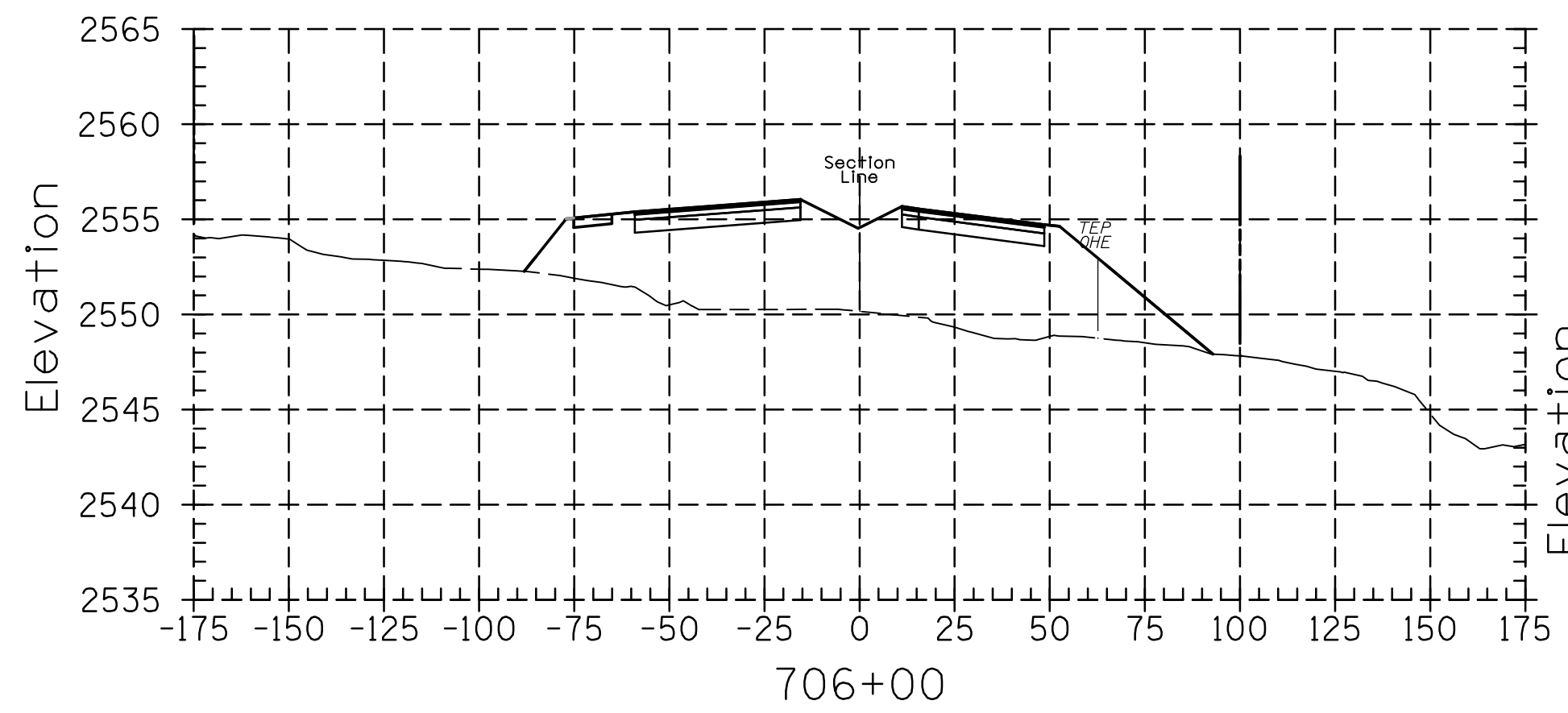
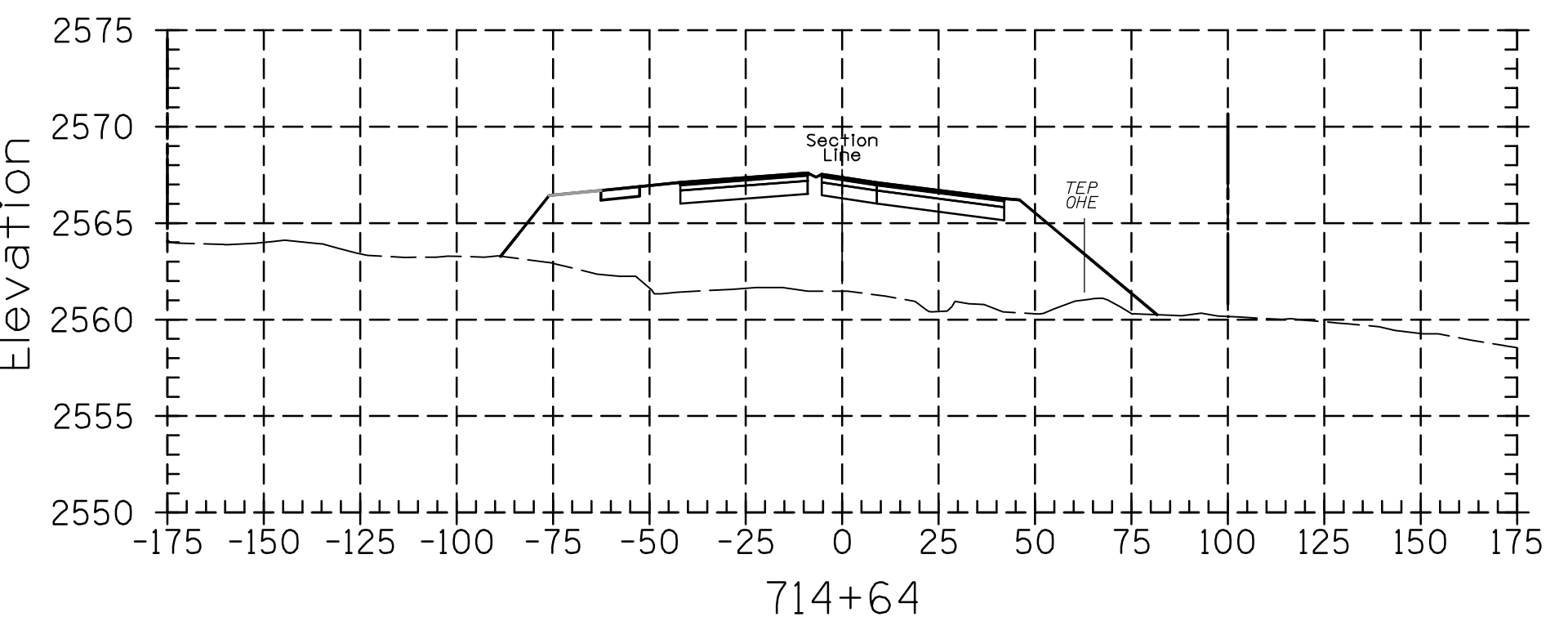
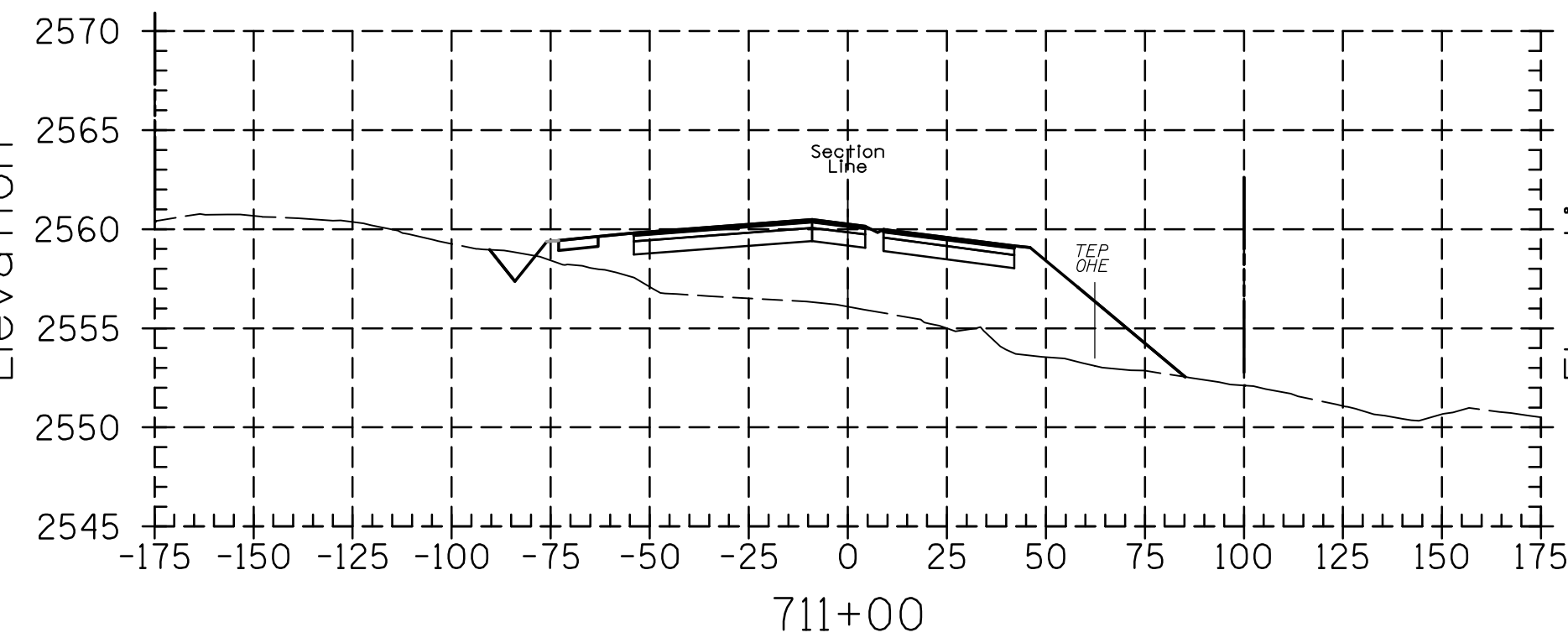
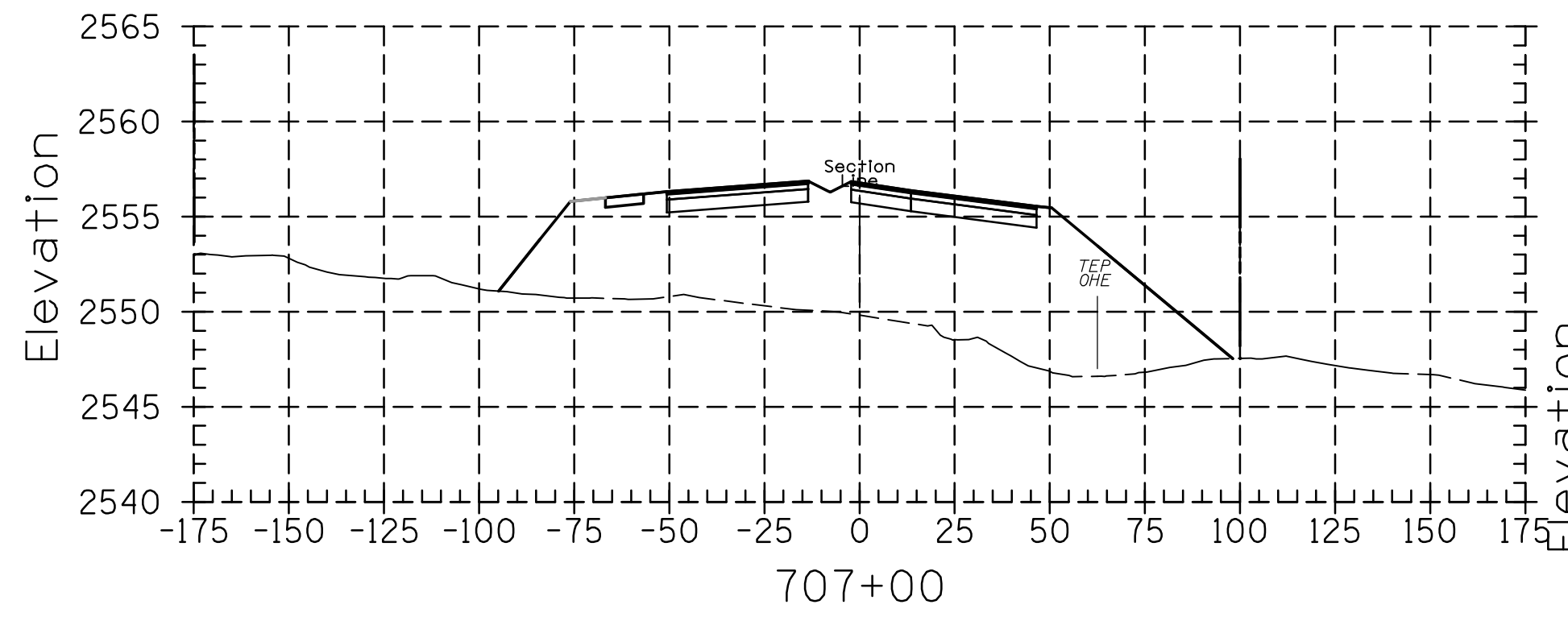
CROSS SECTIONS FOR
TANGERINE ROAD
 STA 696+55 TO 704+00
 TANGERINE ROAD

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PROJ. ENG.: <td>AA</td> <td></td> <td>12/12</td>	AA		12/12



STA 705+00 TO STA 714+64



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS24 OF XS31

PAGE OF

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
STA 705+00 TO 714+64
TANGERINE ROAD

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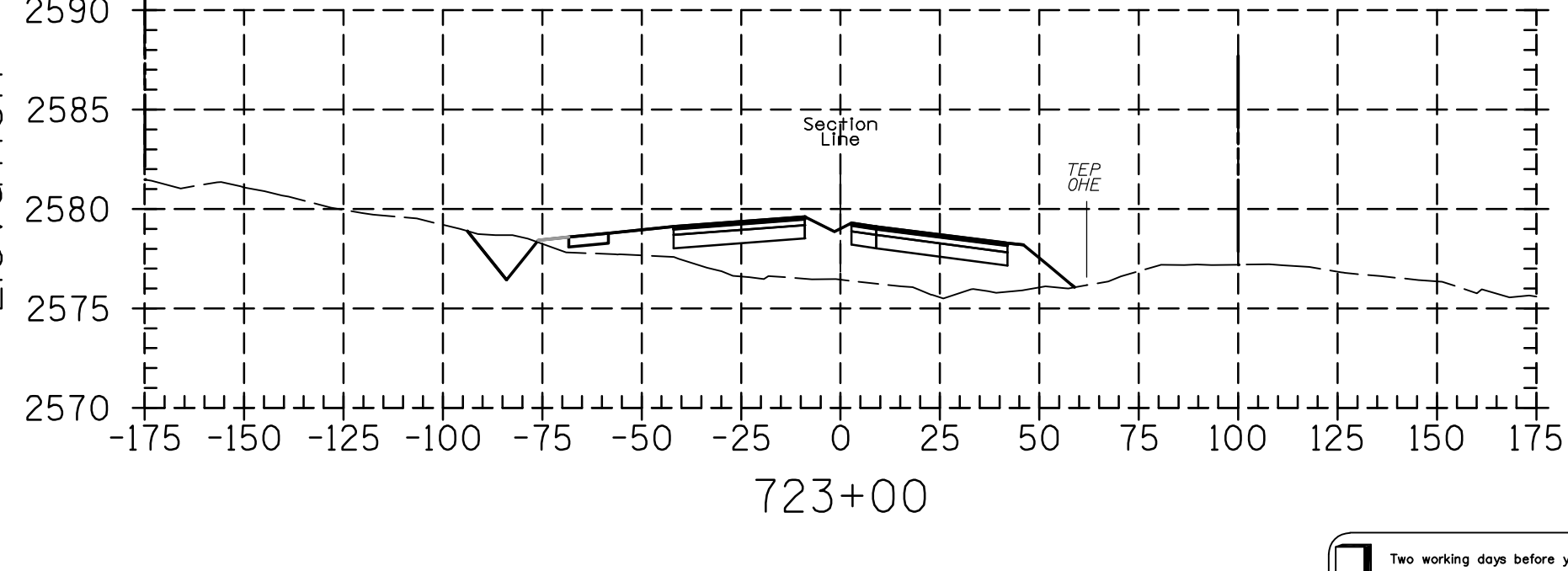
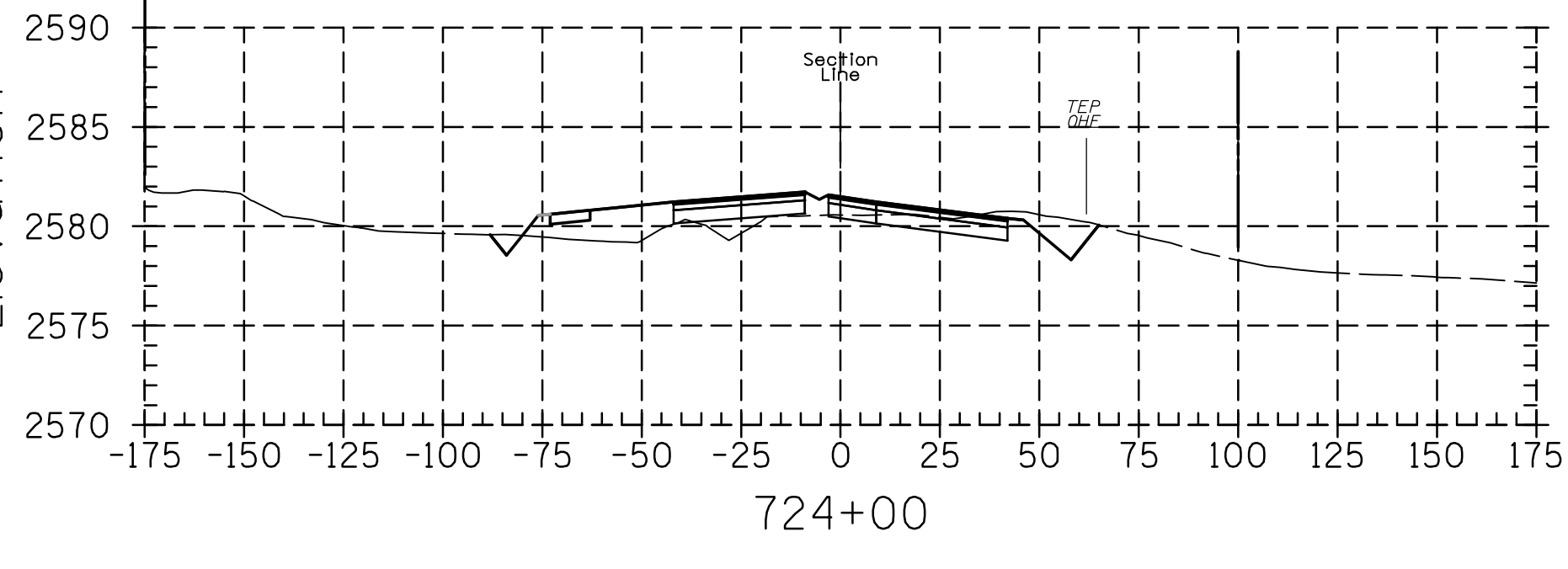
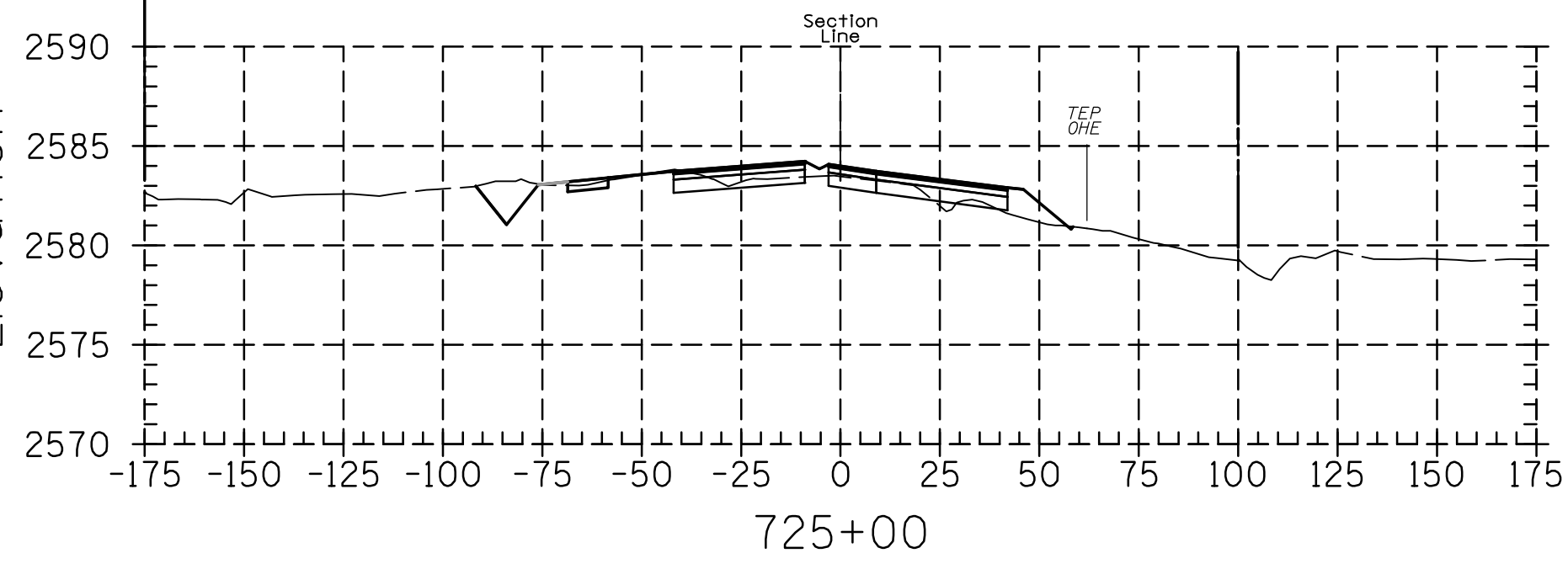
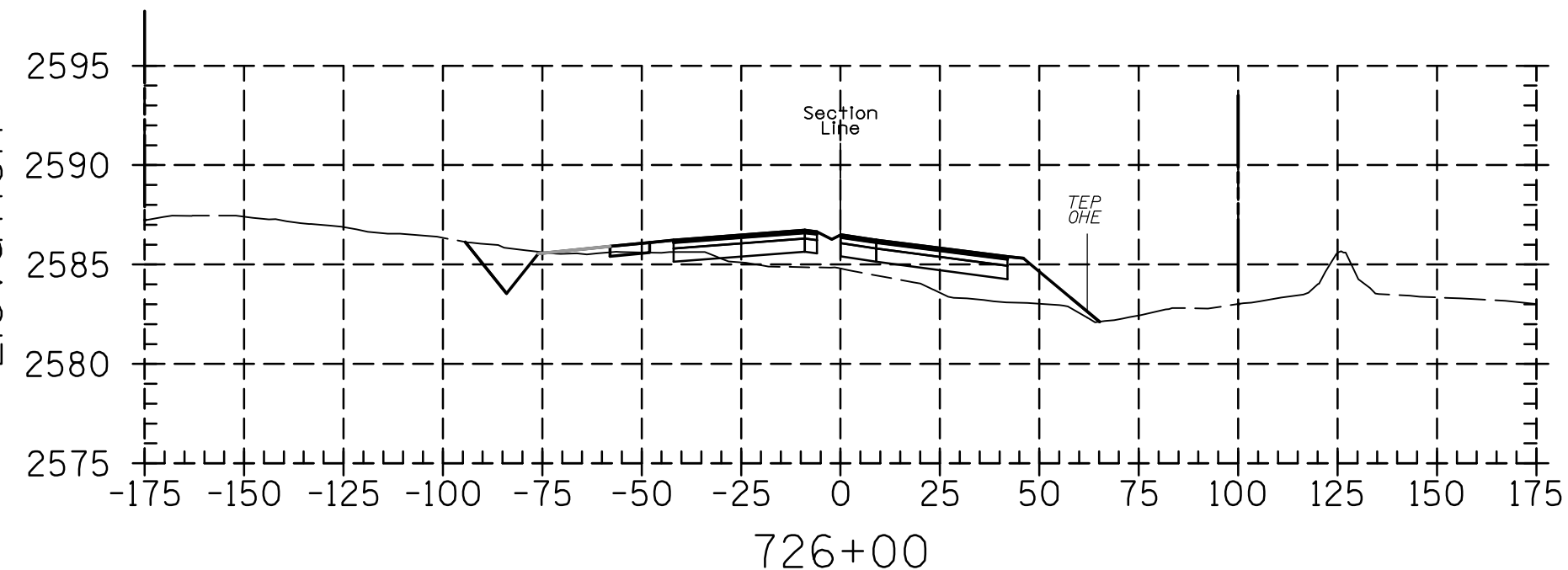
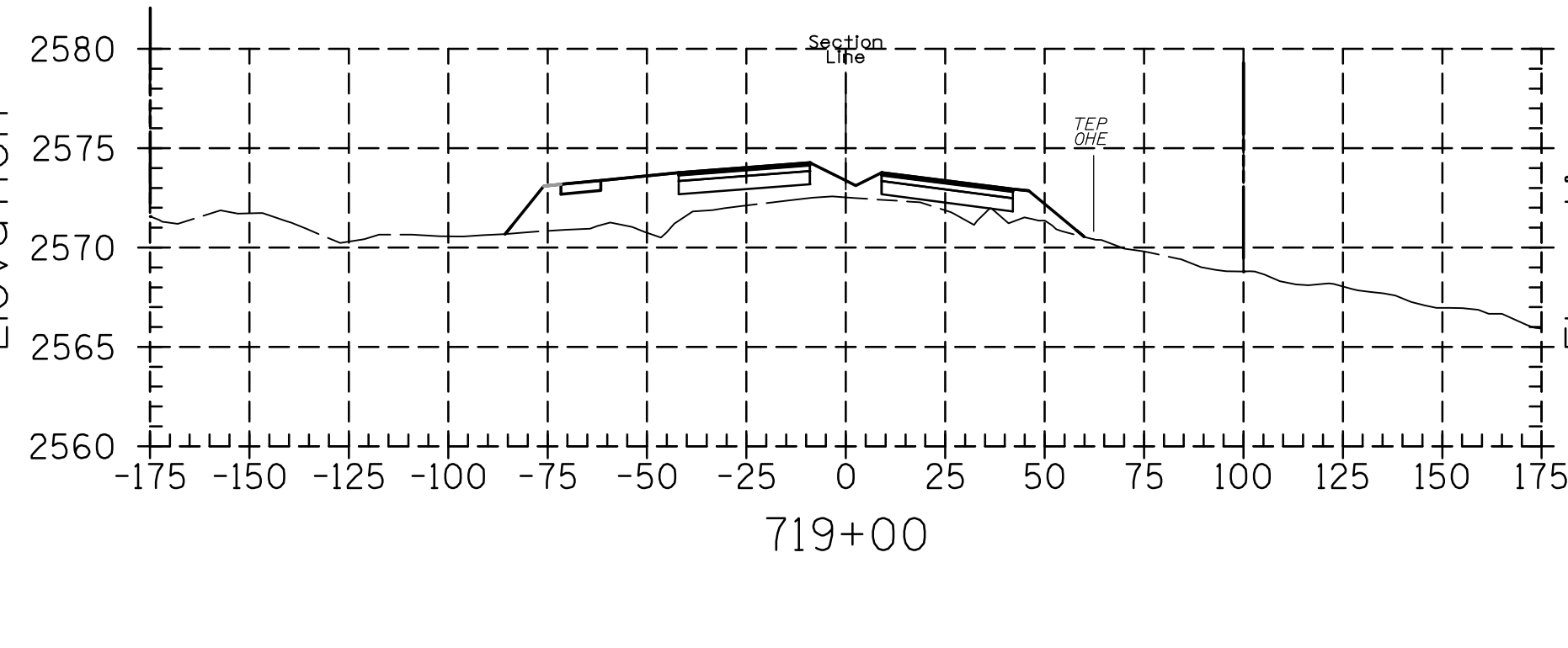
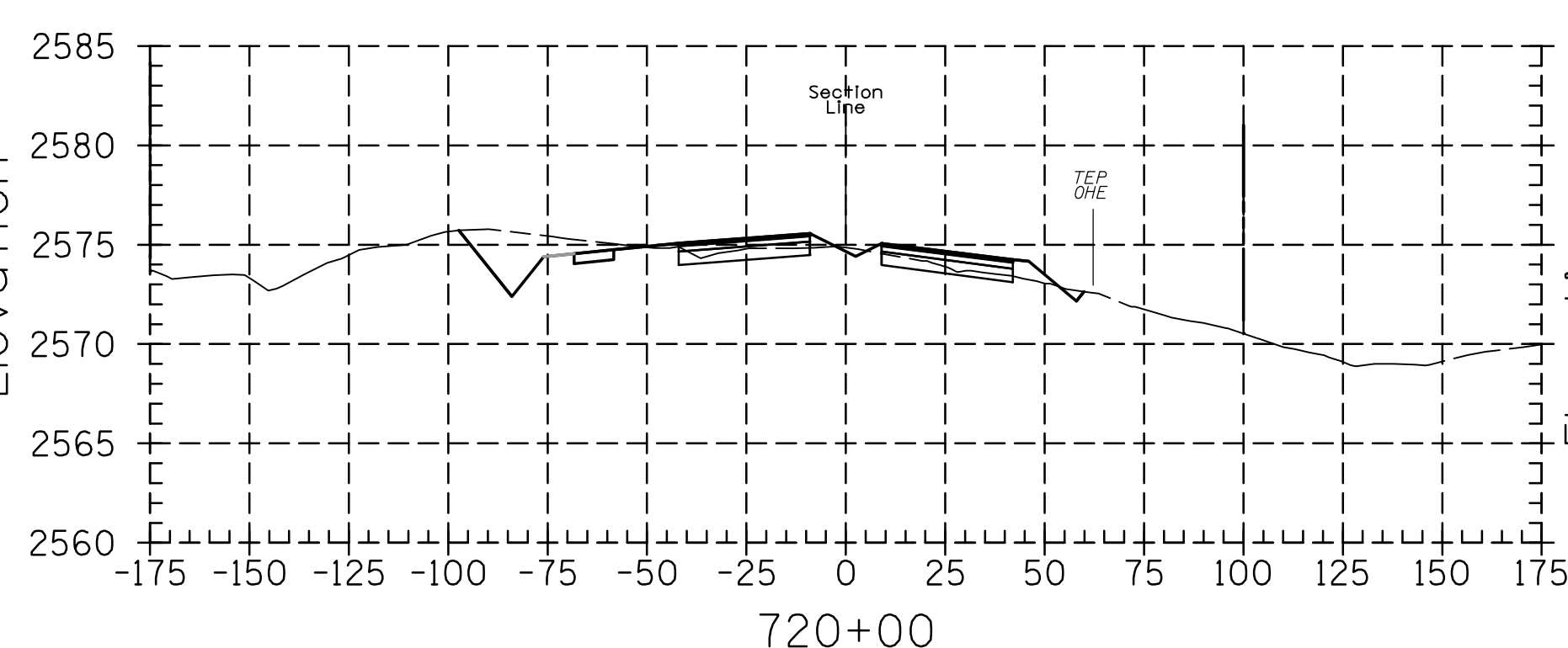
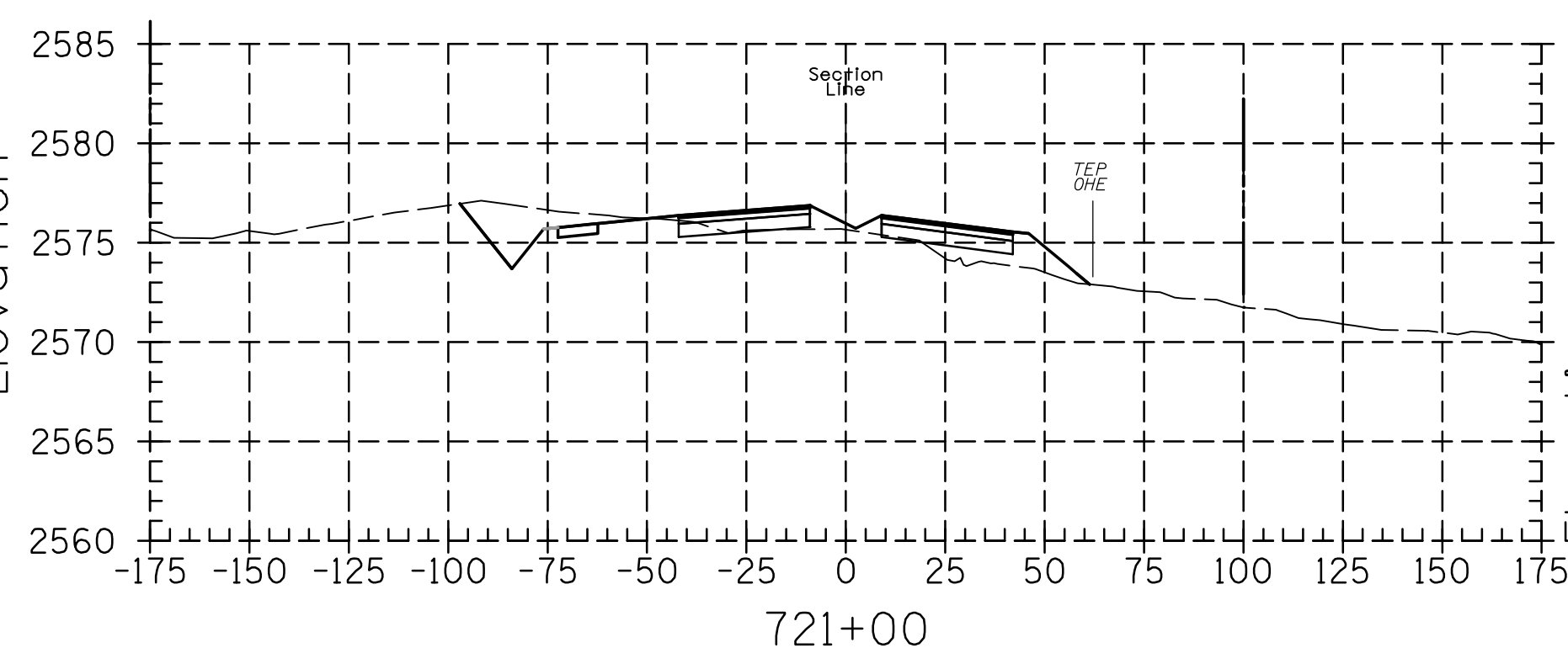
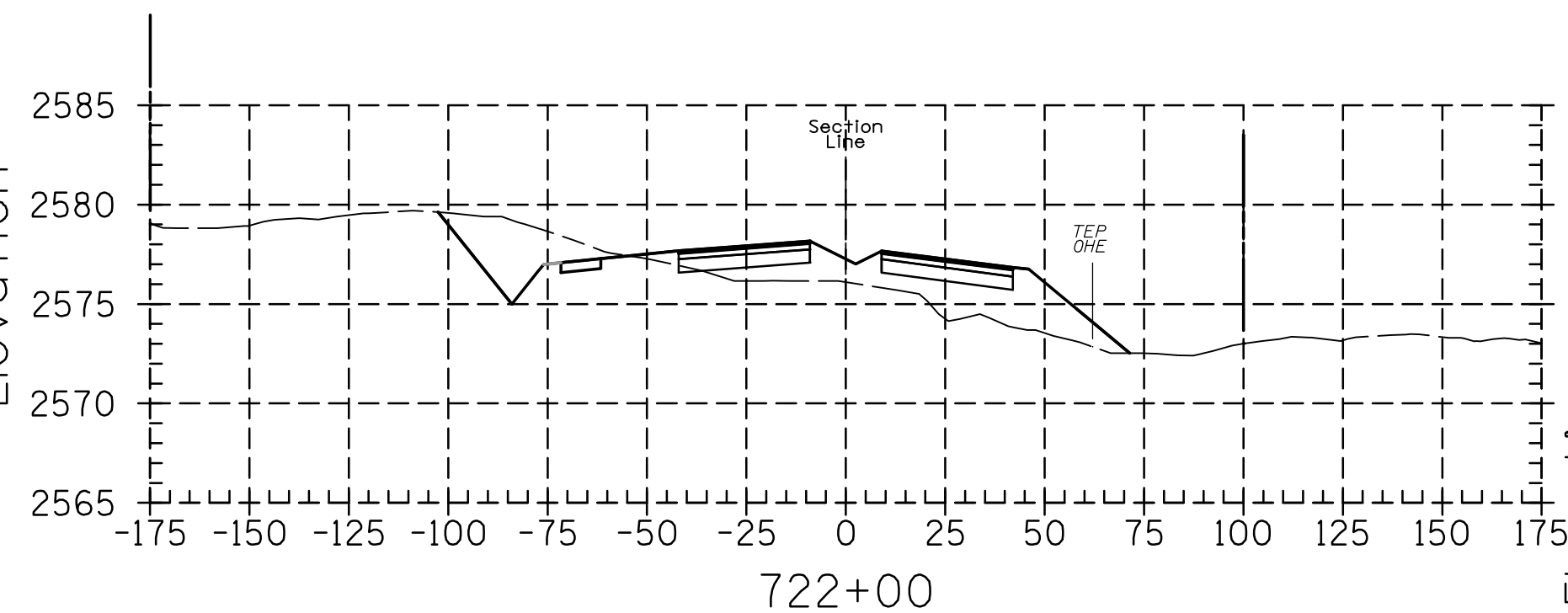
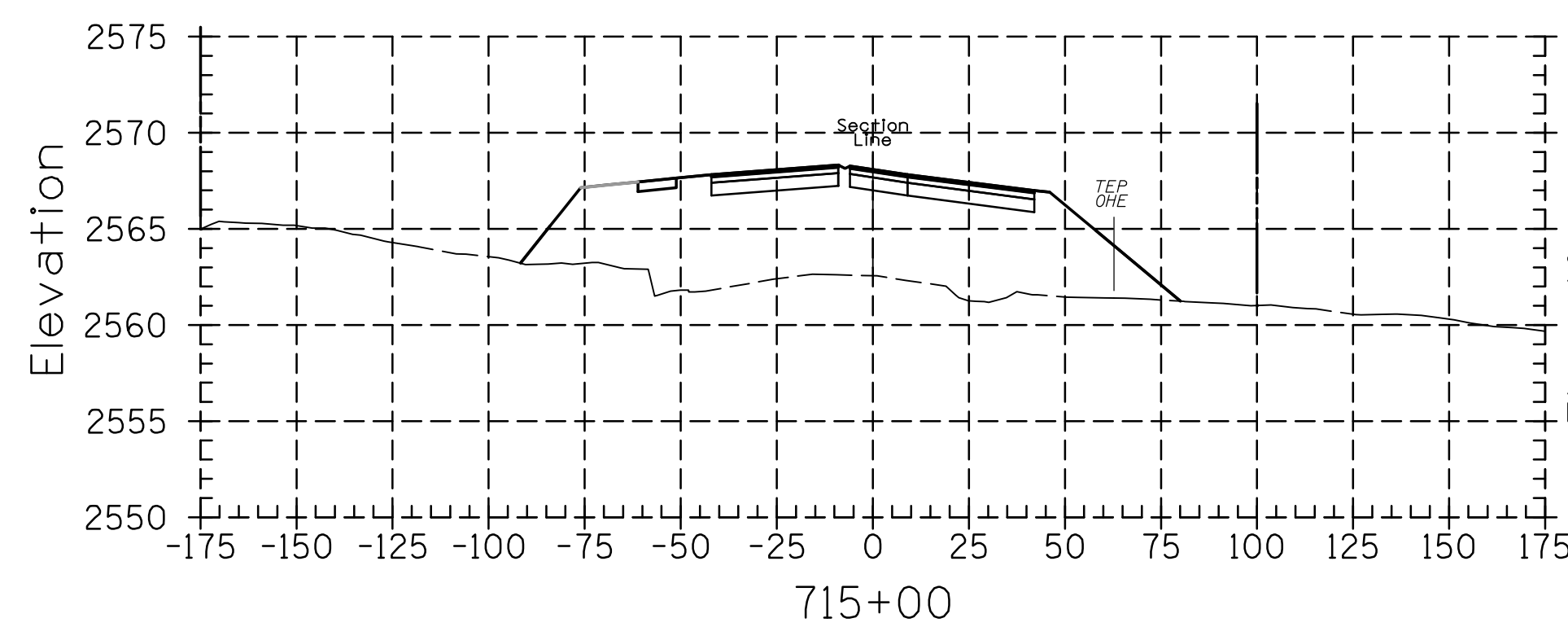
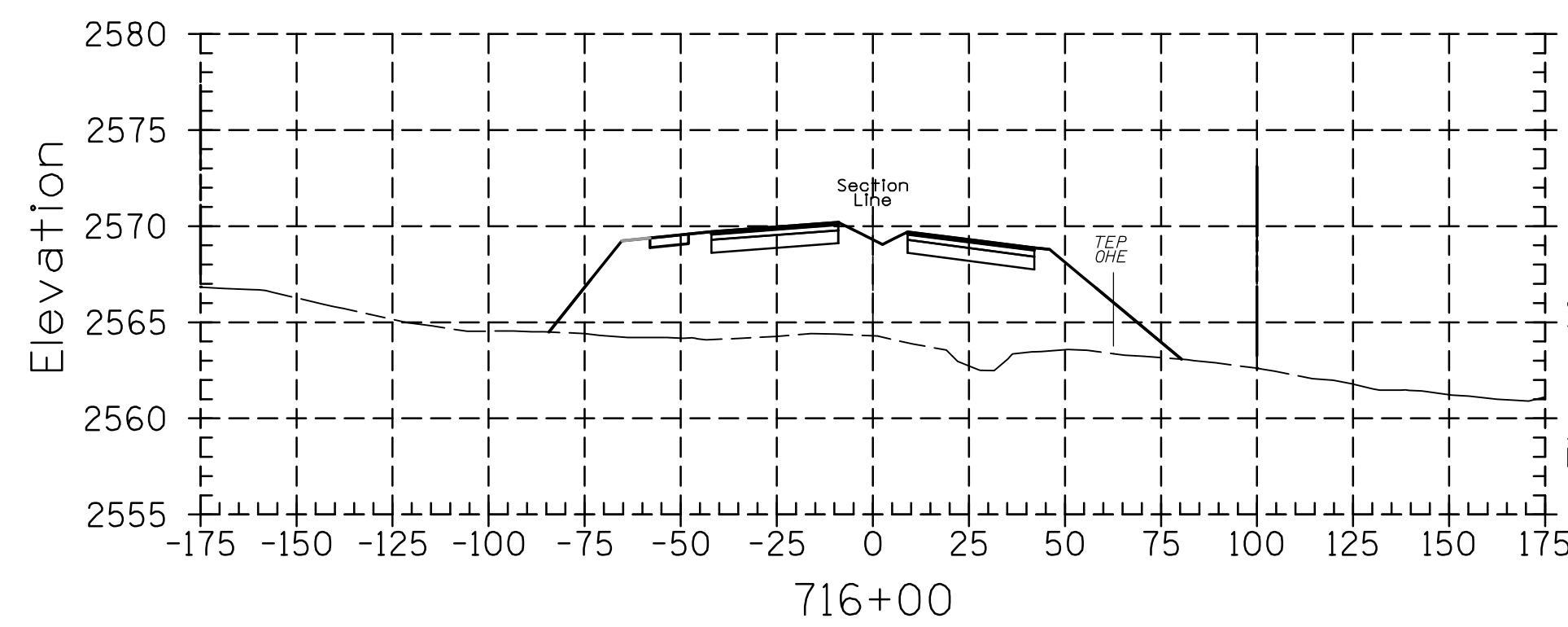
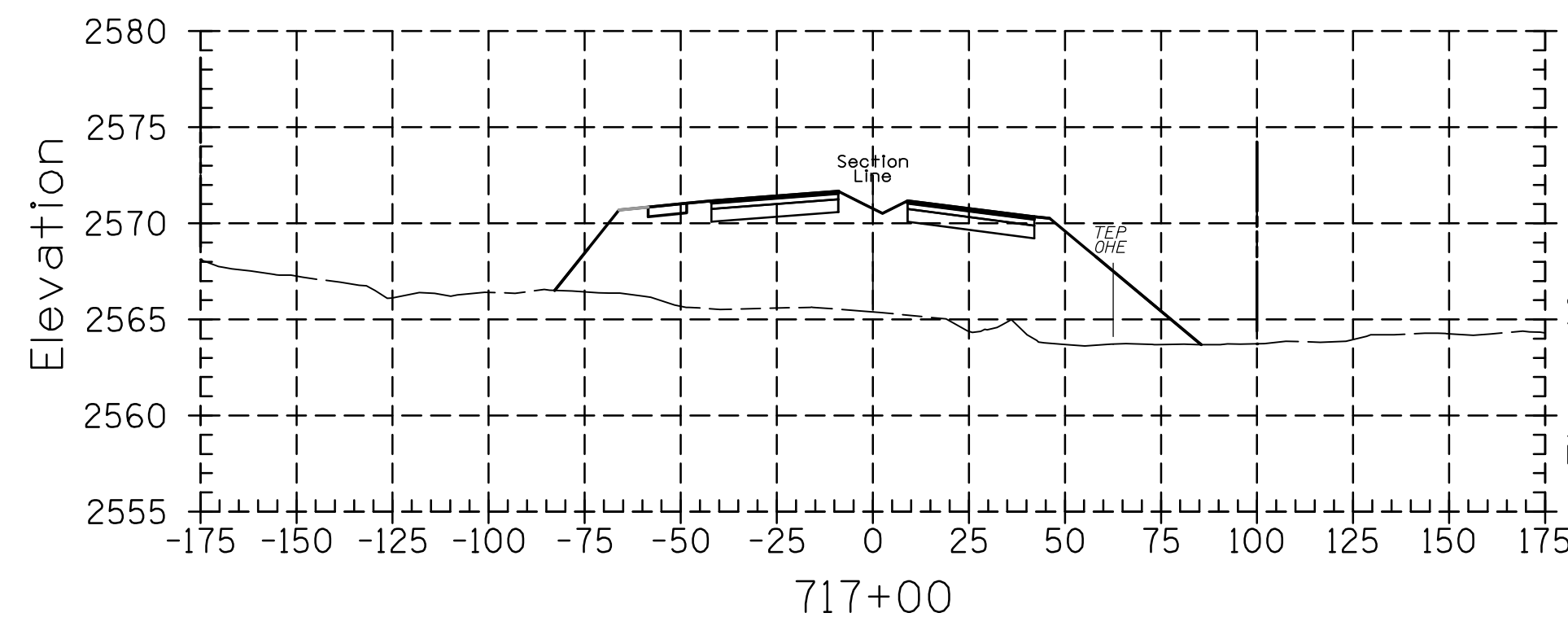
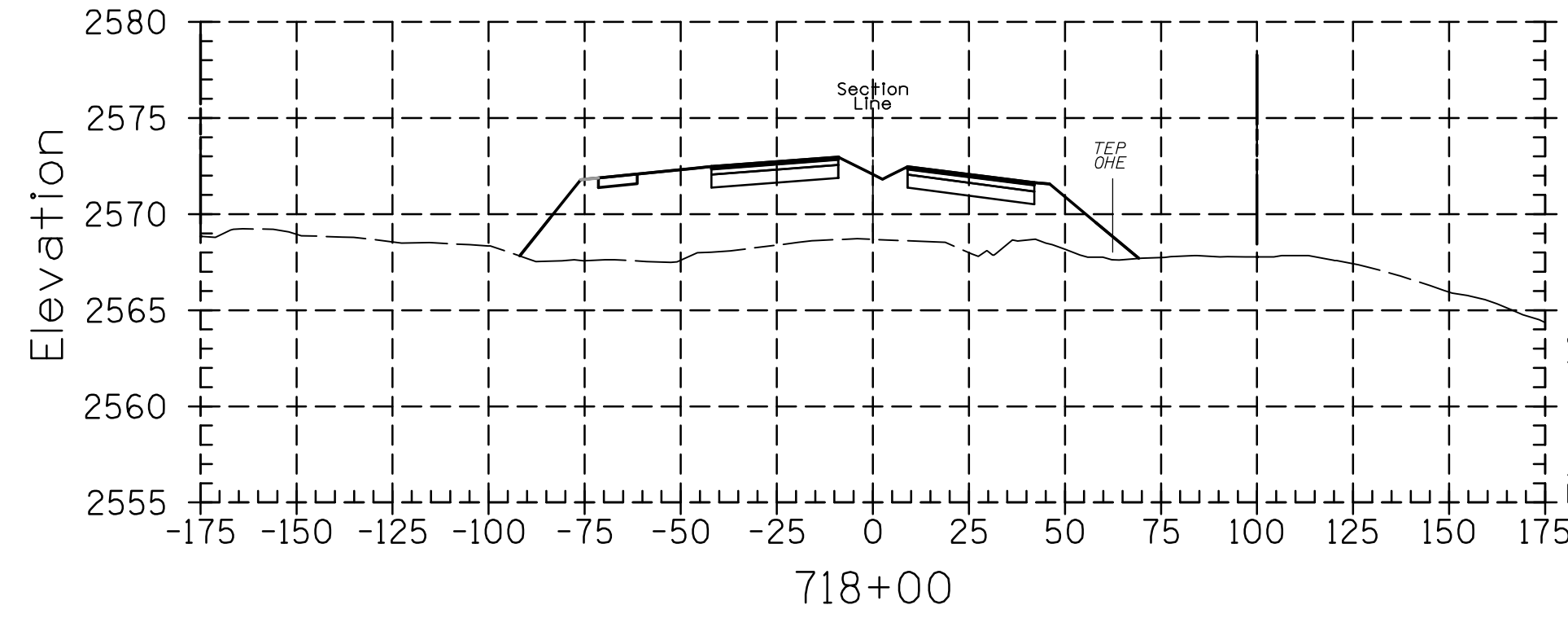
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STA 715+00 TO STA 726+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS25 OF XS31

PAGE OF

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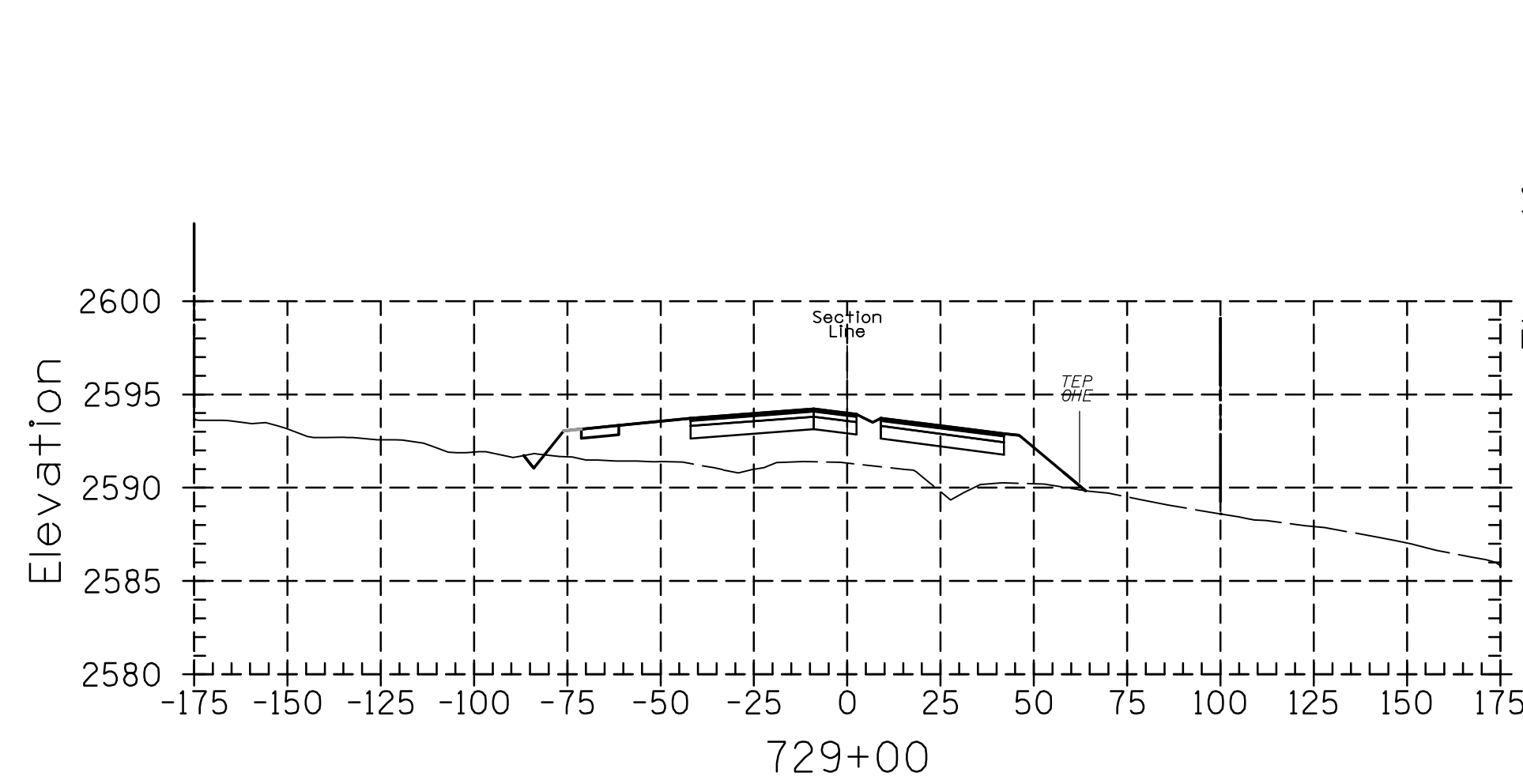
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TOWN OF MARANA - PROJECT NO. 2005-061

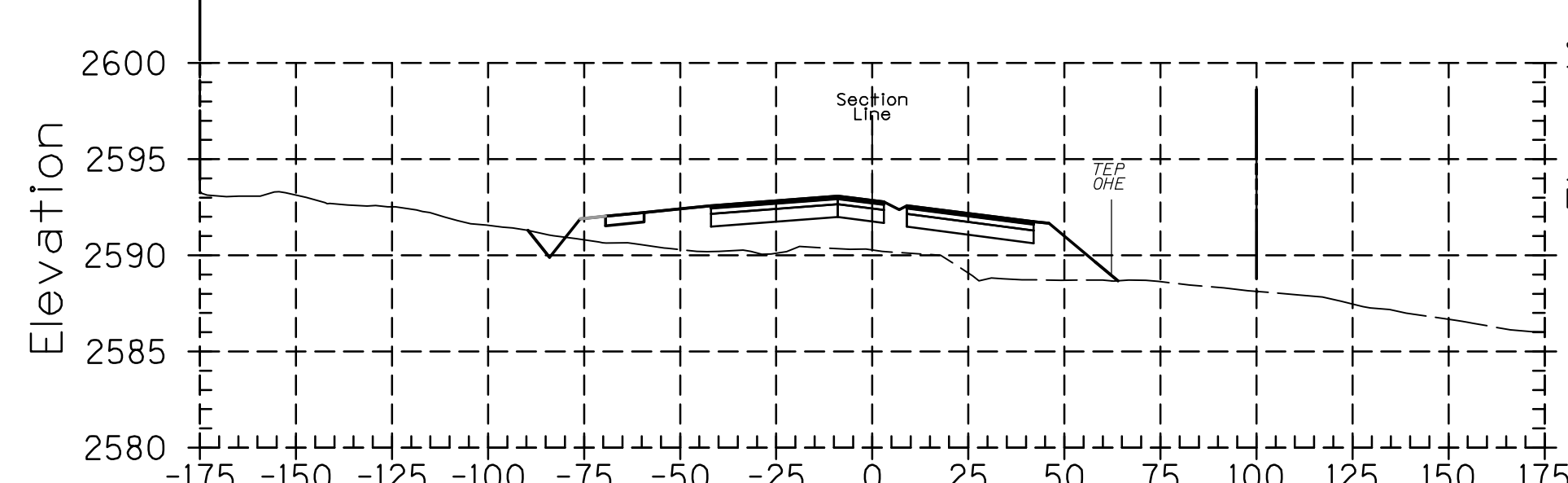
CROSS SECTIONS
FOR
TANGERINE ROAD
STA 715+00 TO 726+00
TANGERINE ROAD

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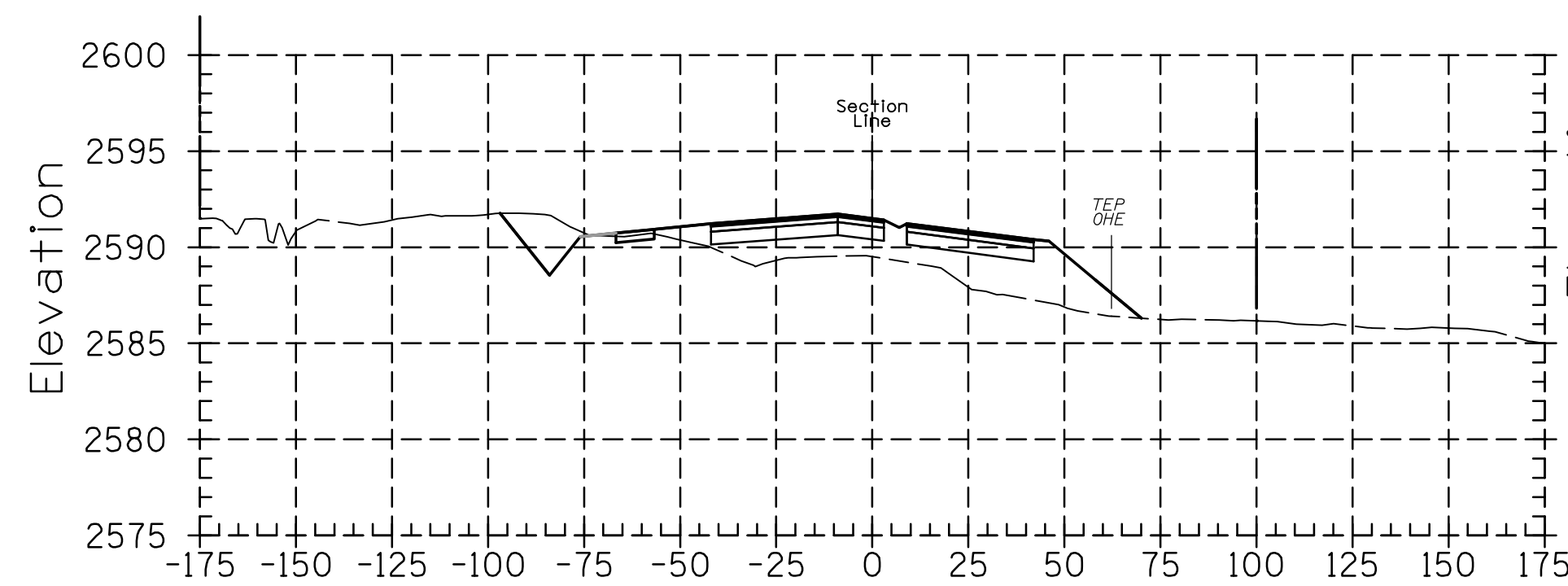
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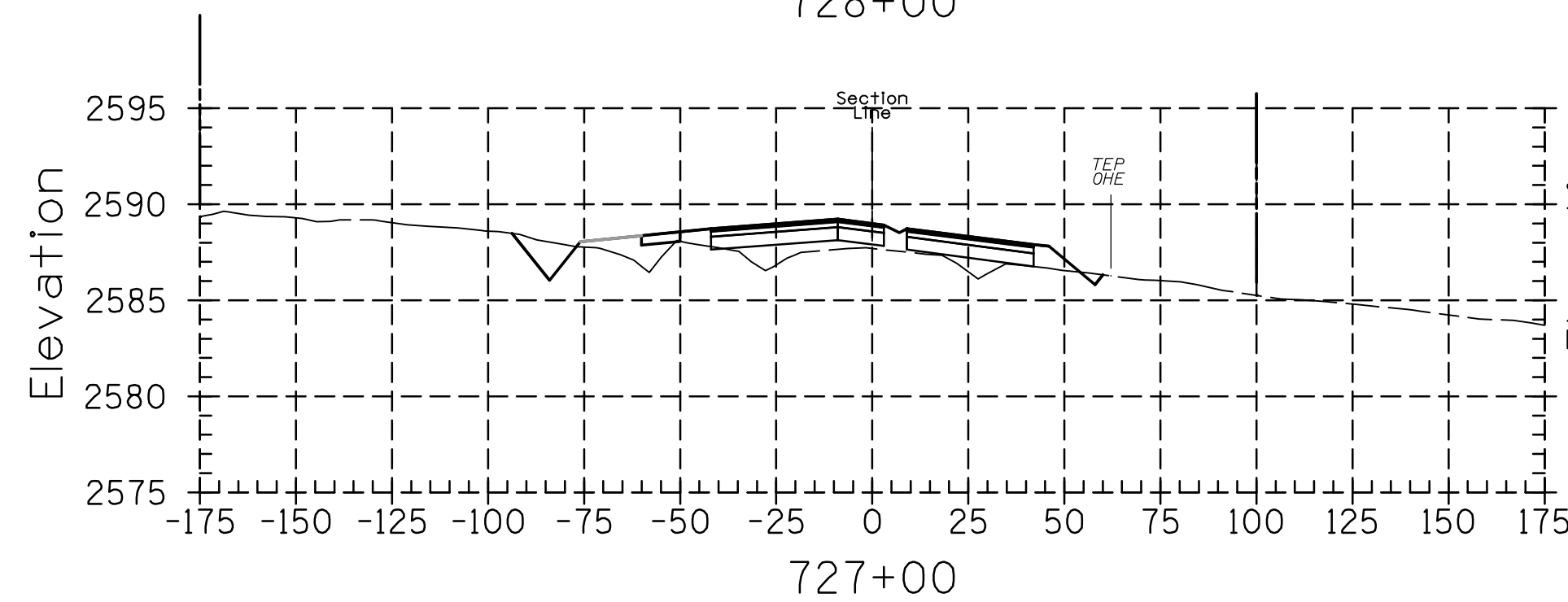
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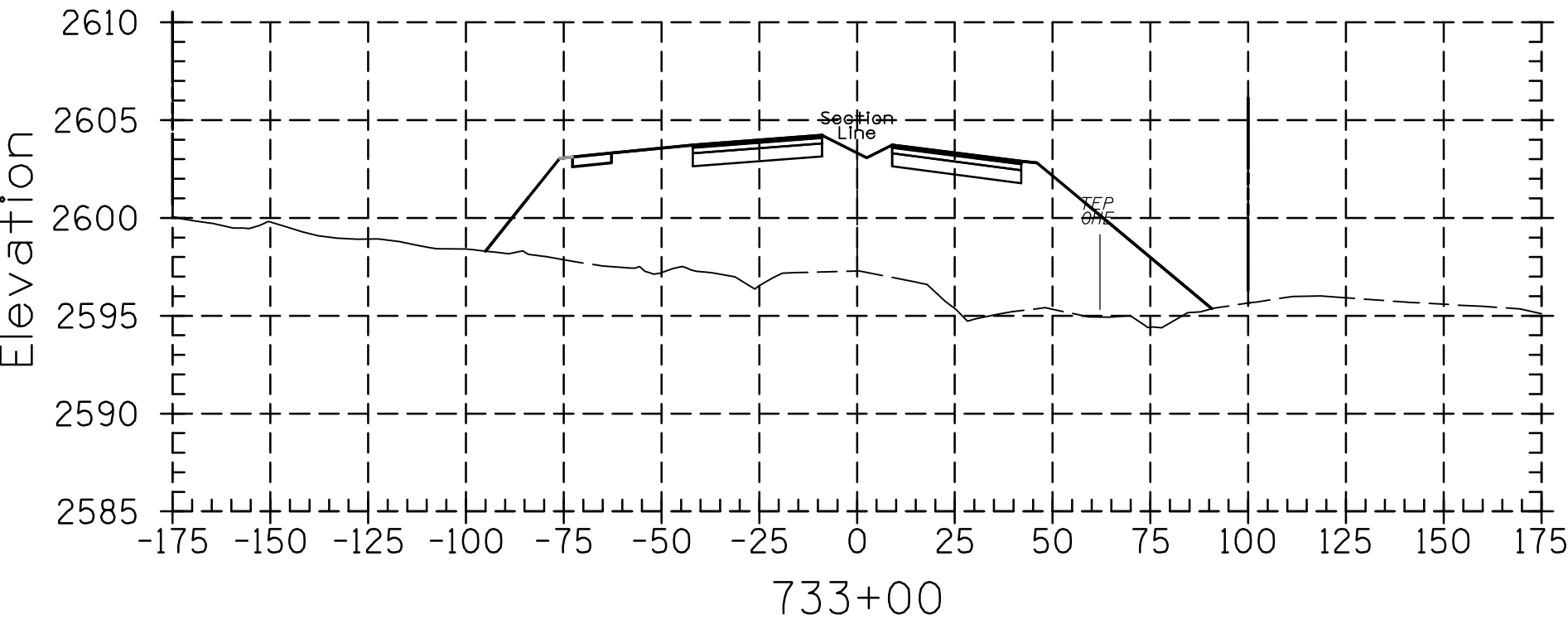
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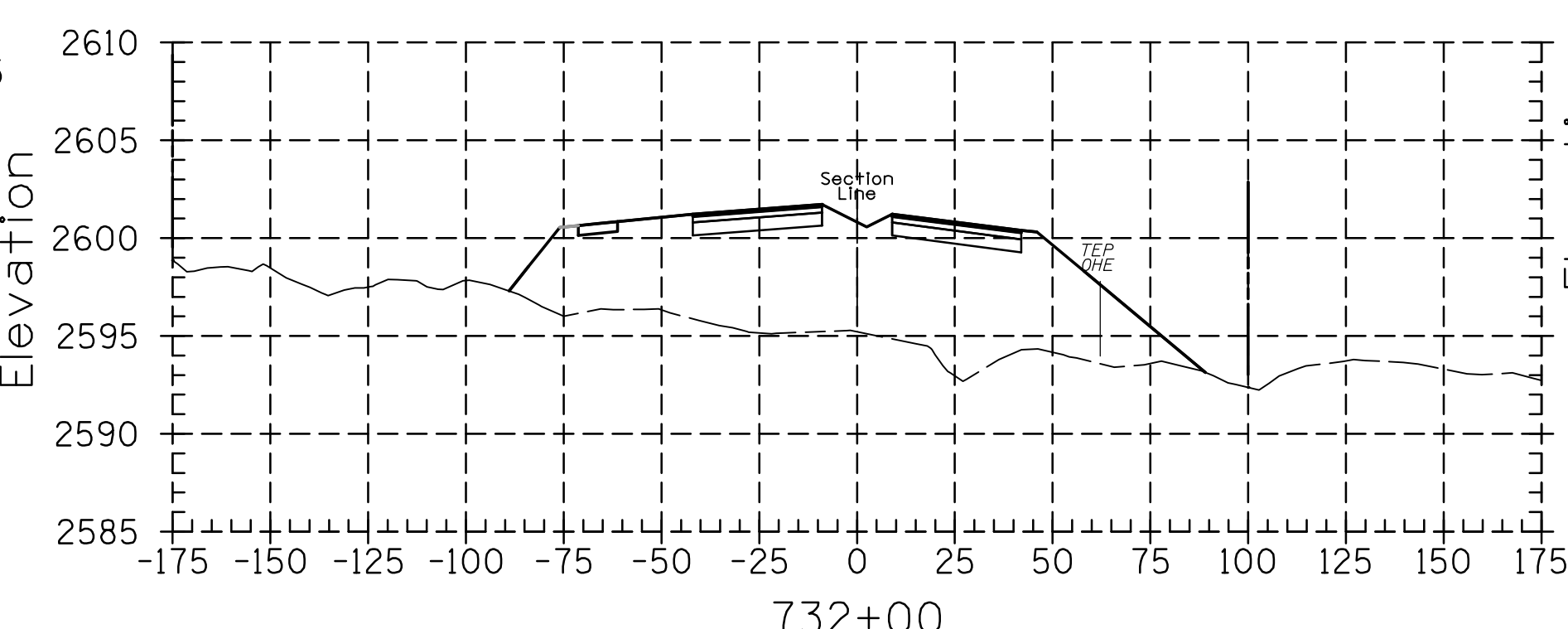
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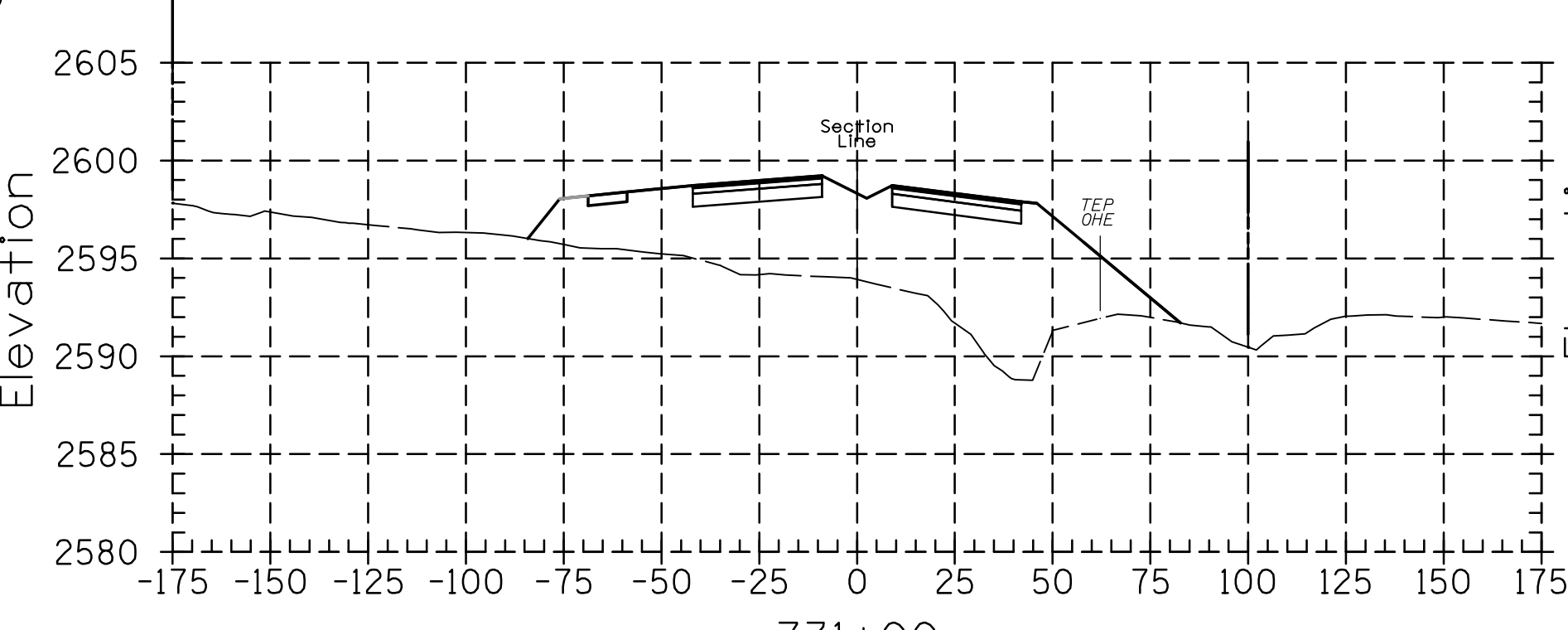
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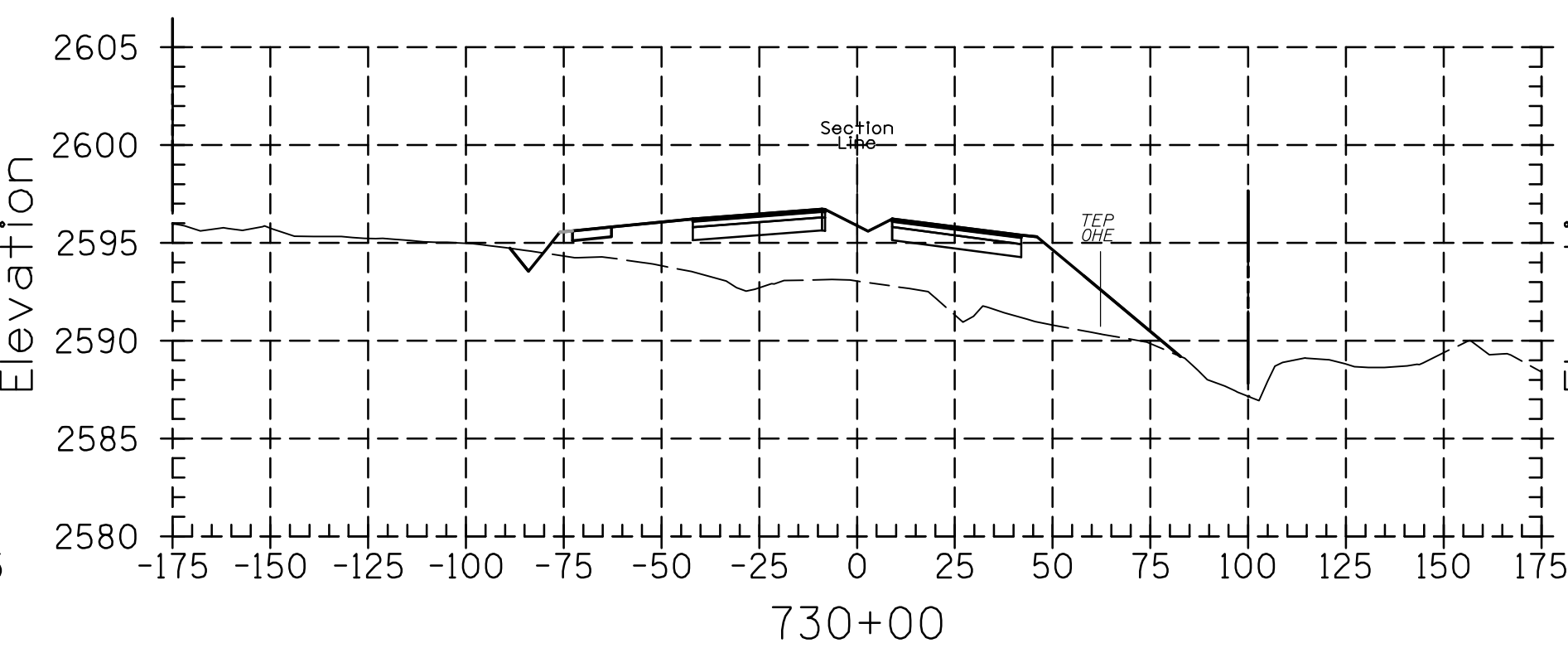
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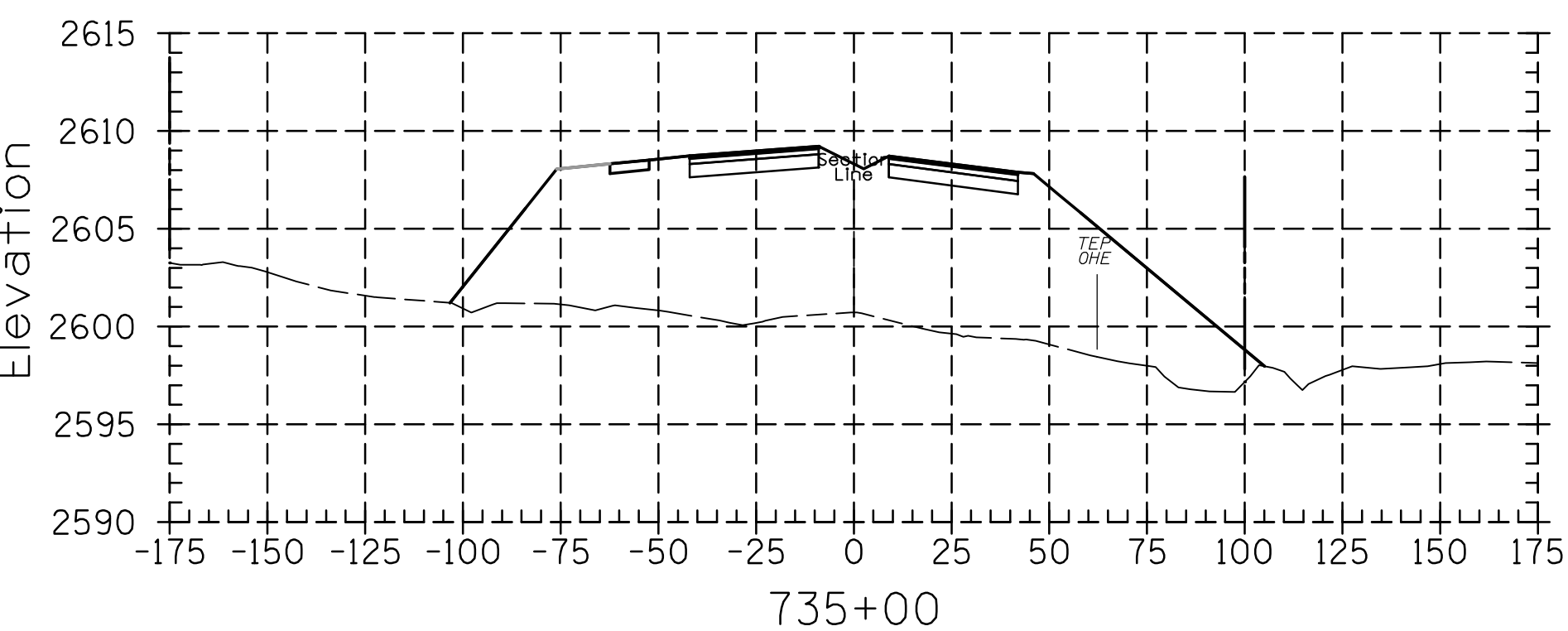
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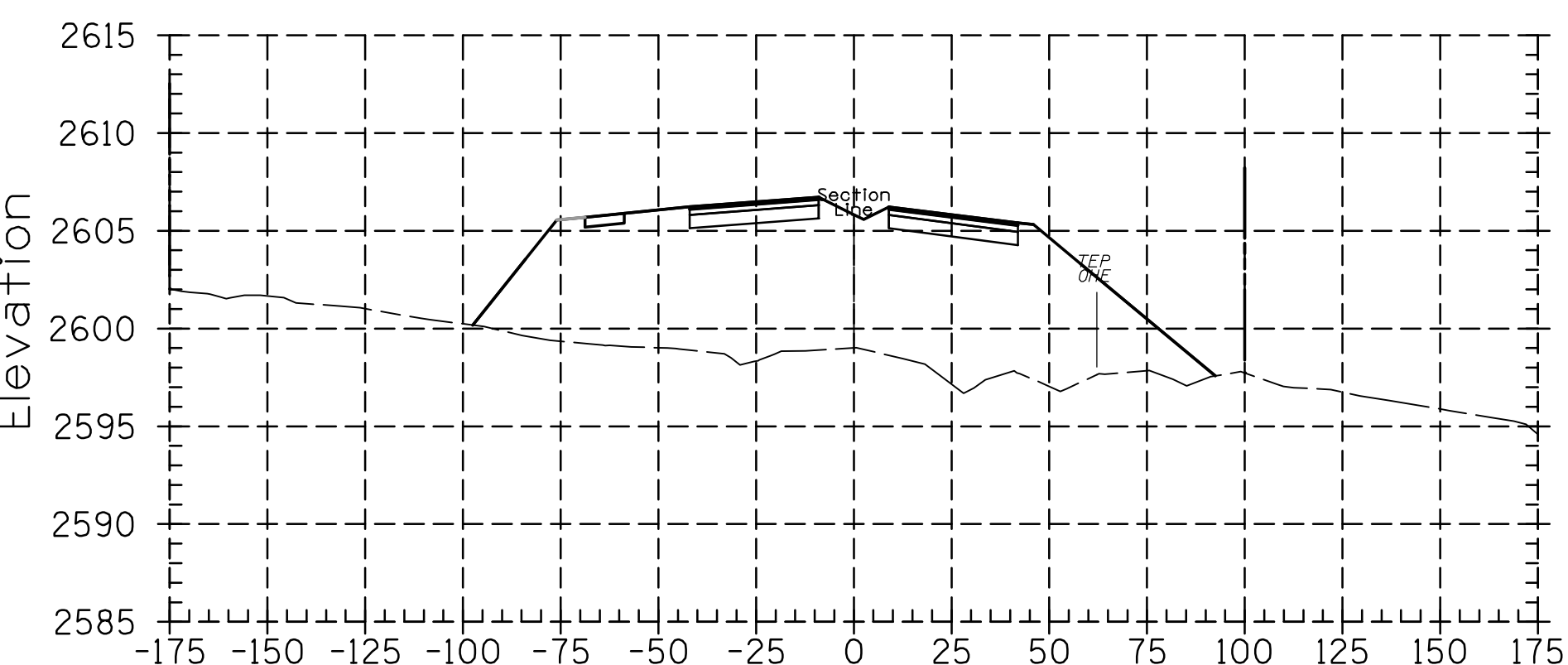
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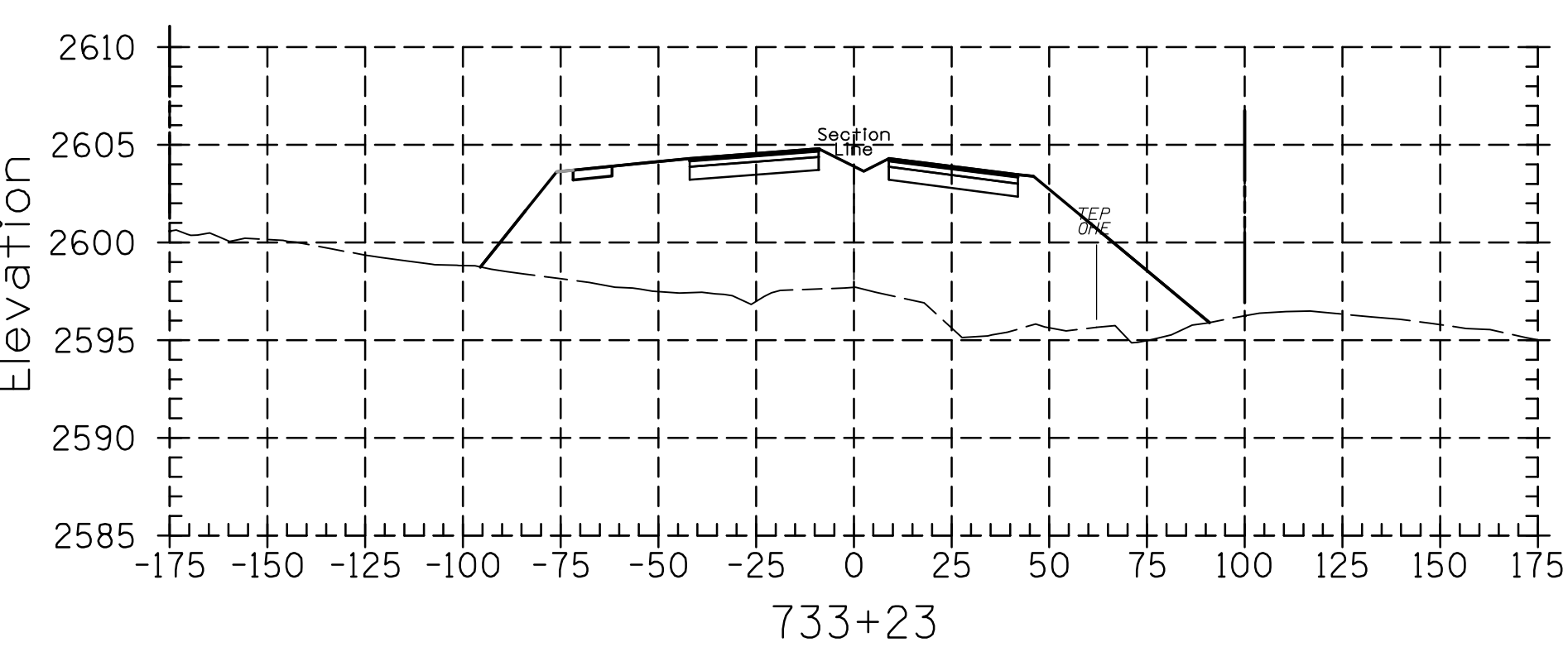
730+00



735+00



734+00



733+23

STA 727+00 TO STA 735+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS26 OF XS31

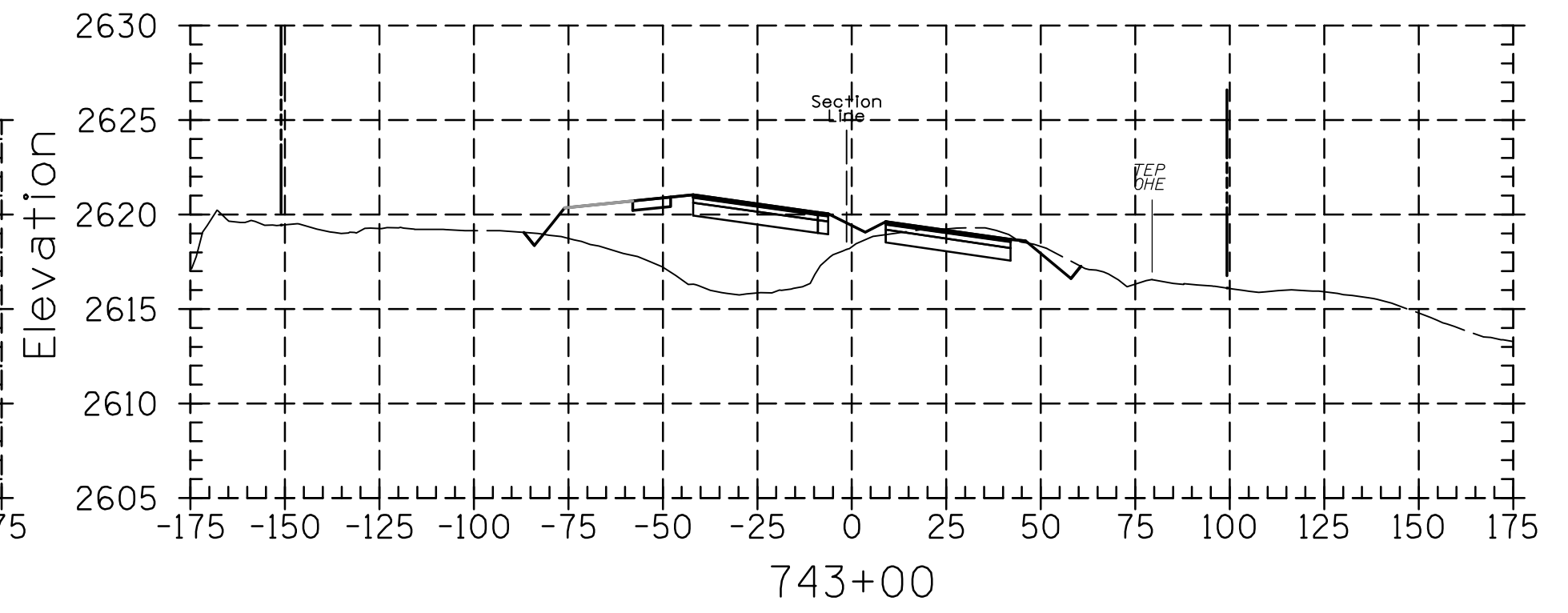
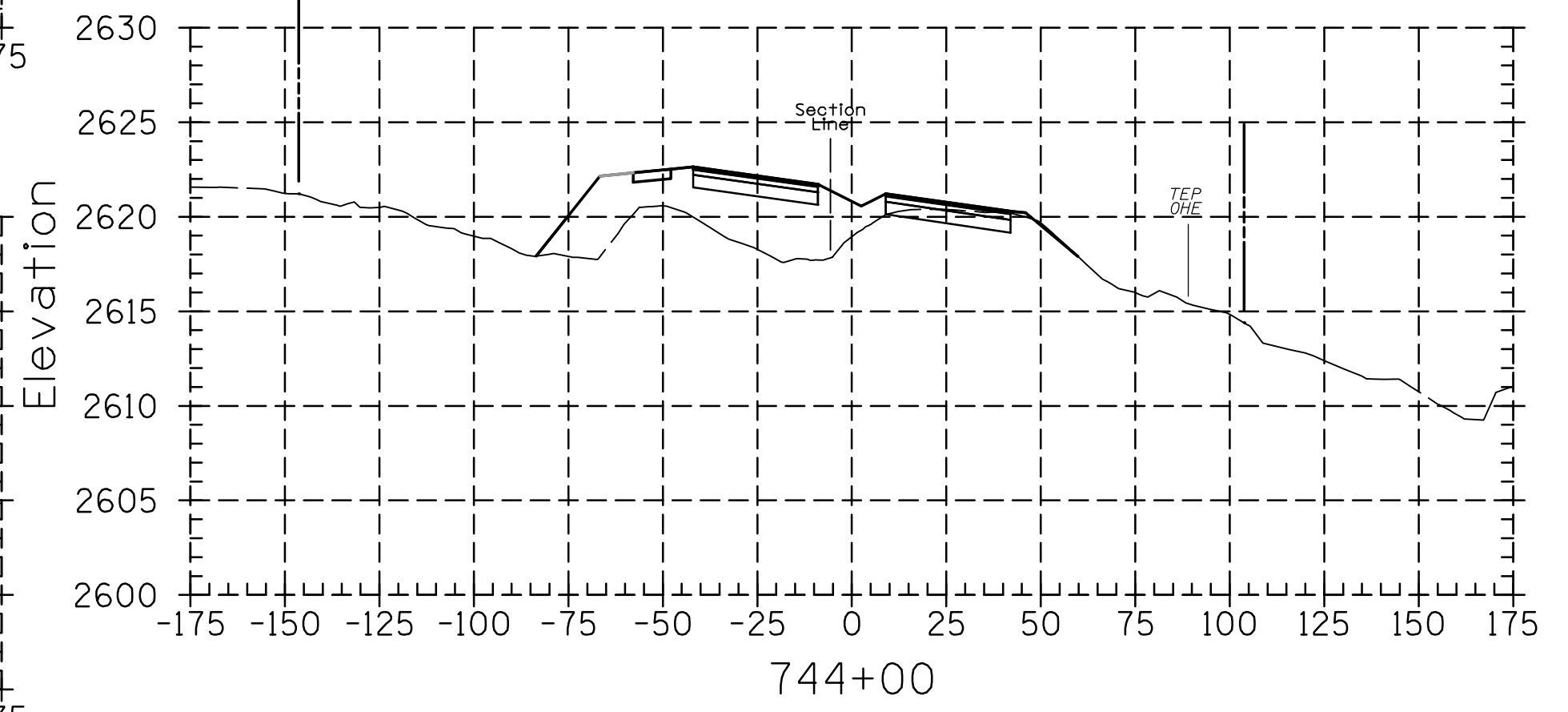
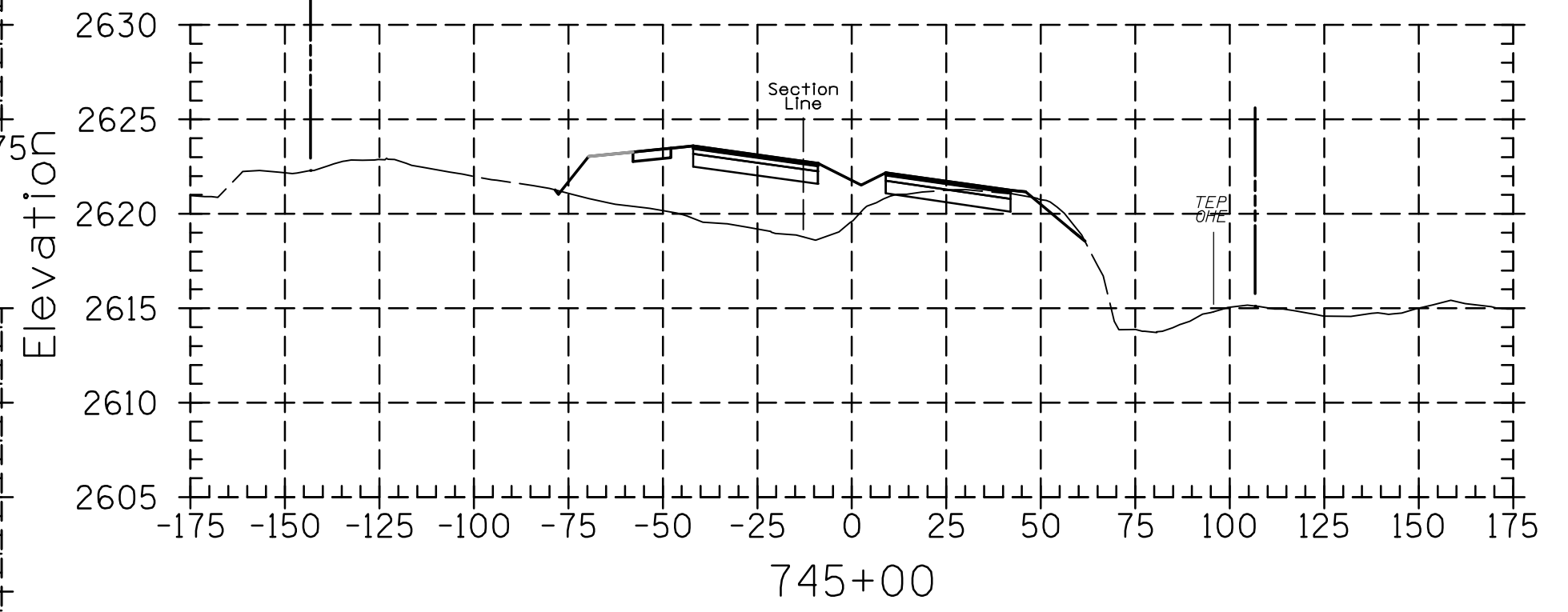
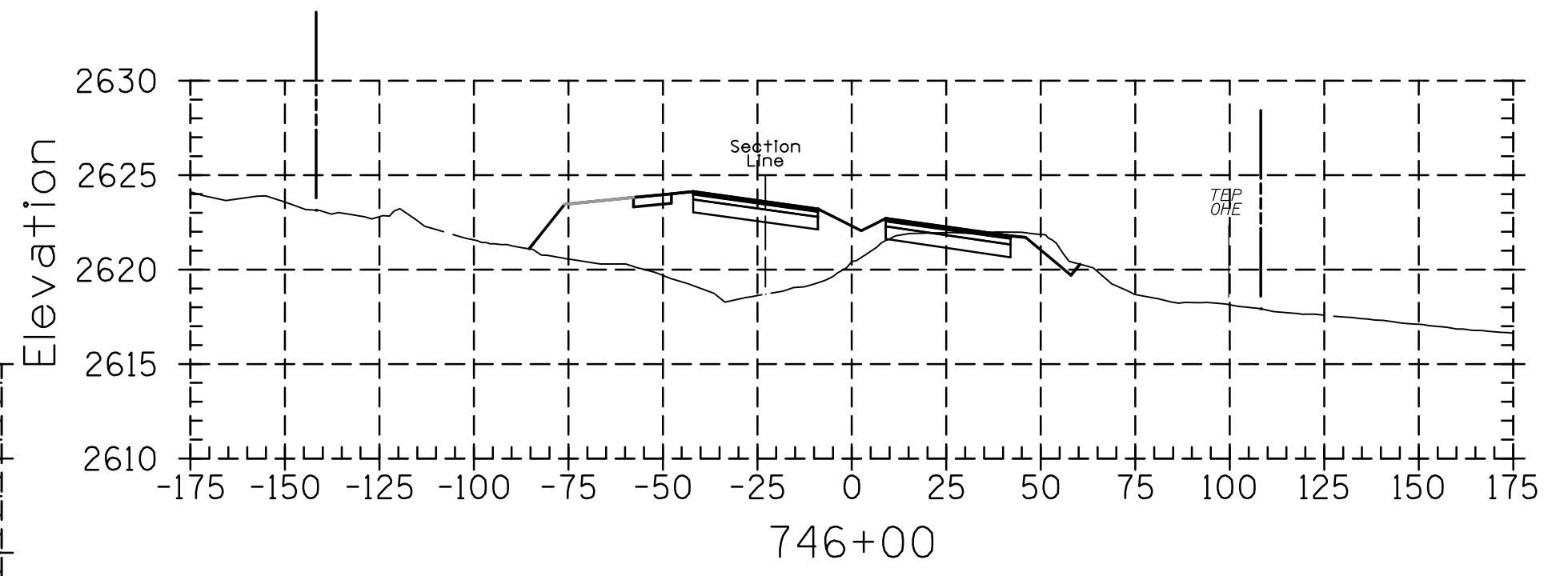
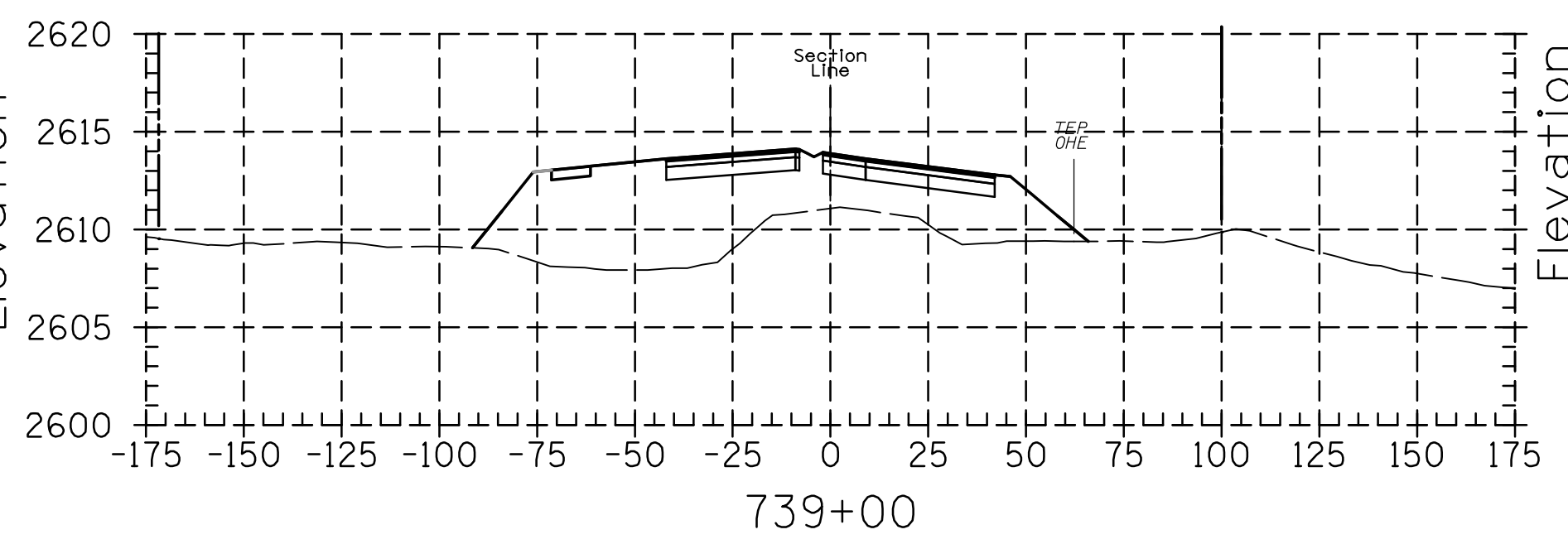
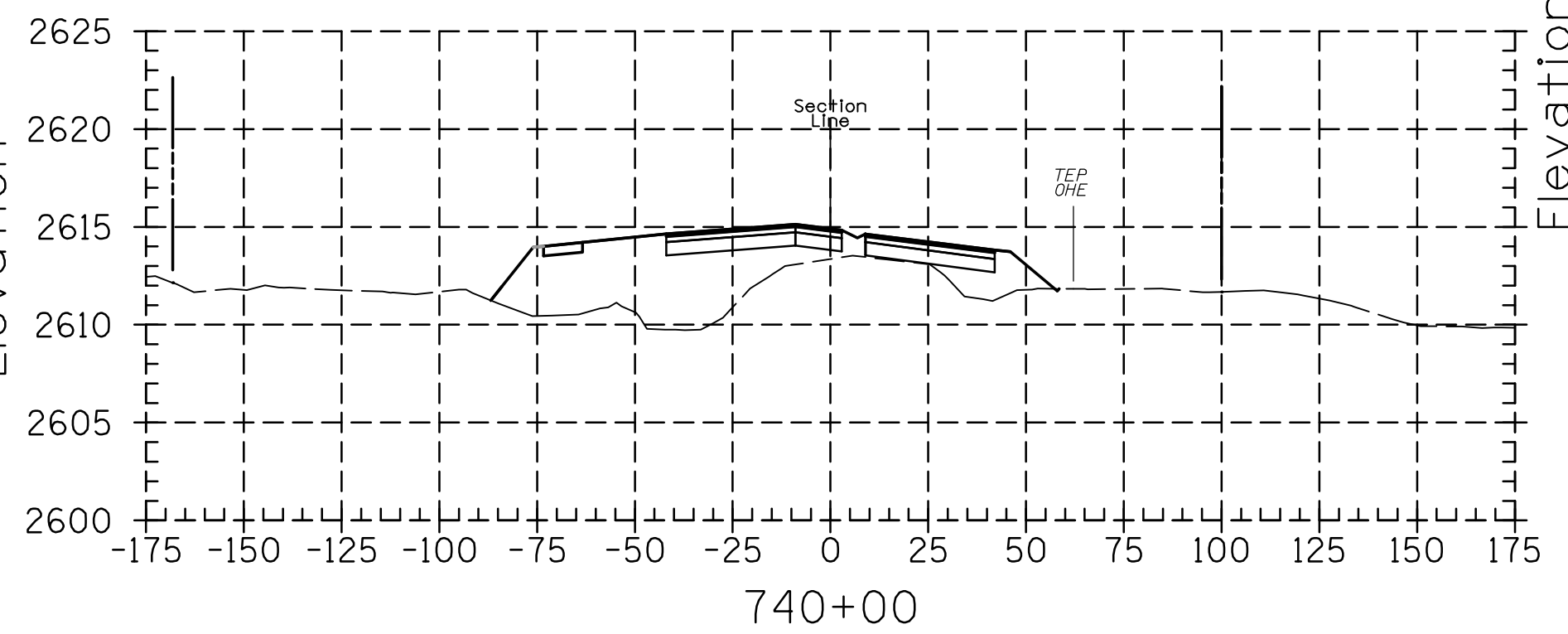
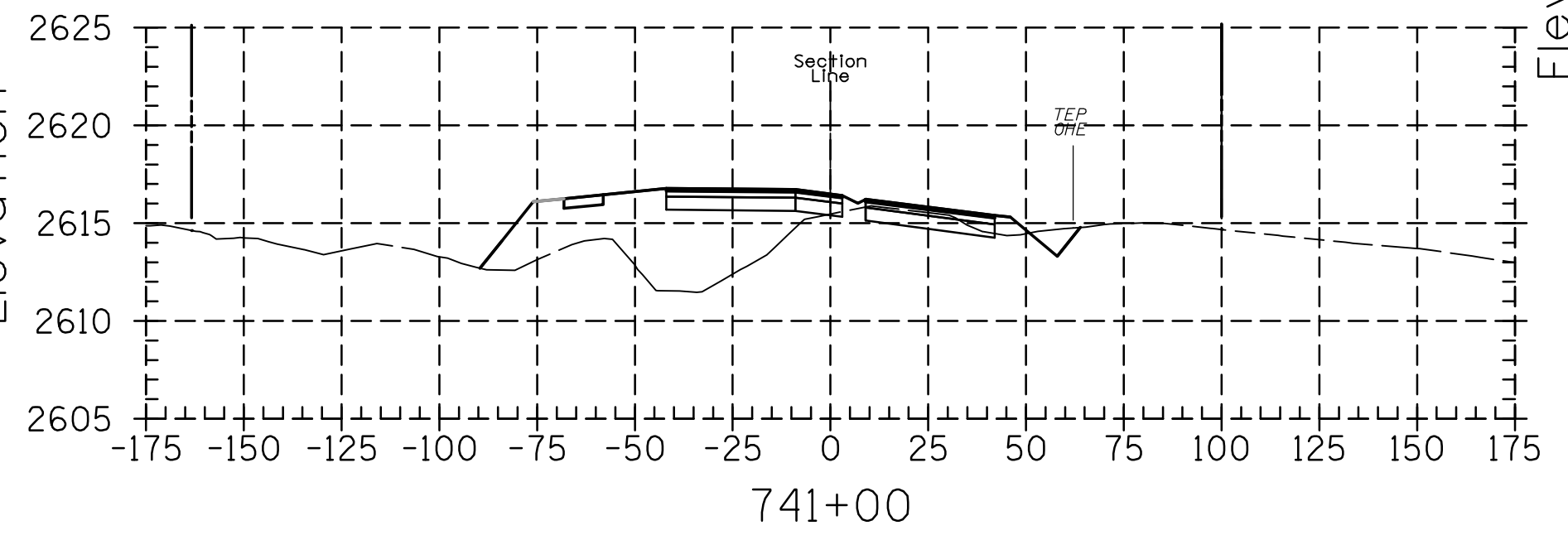
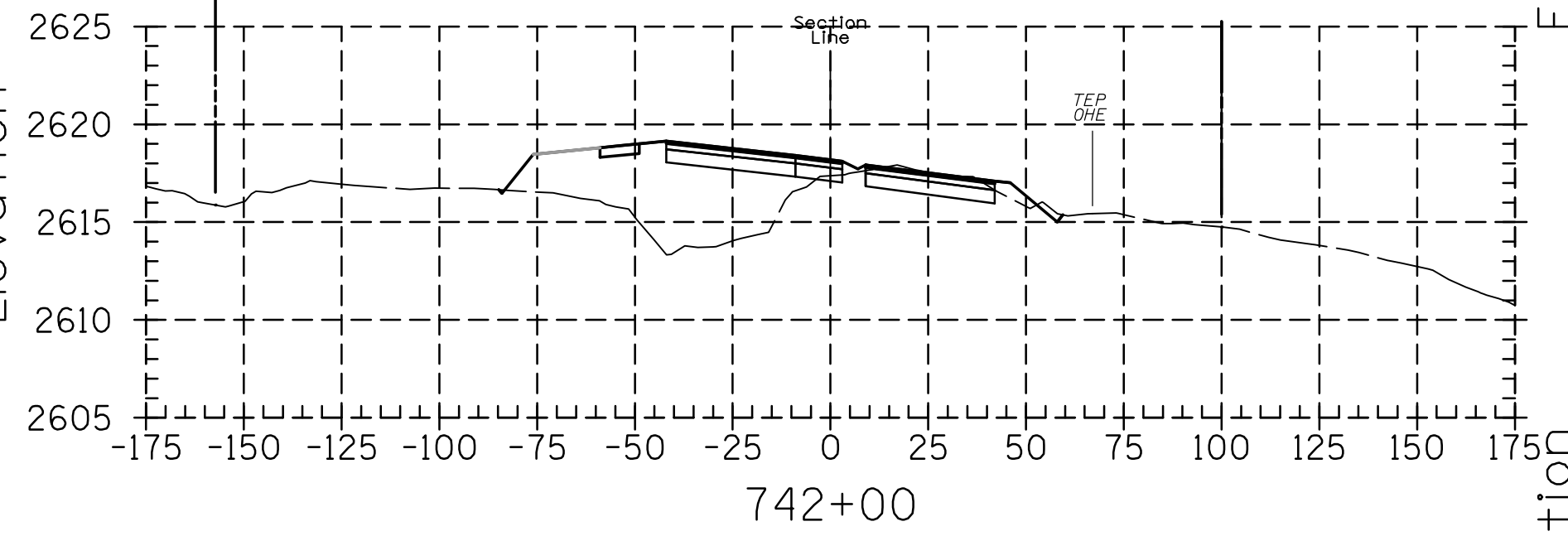
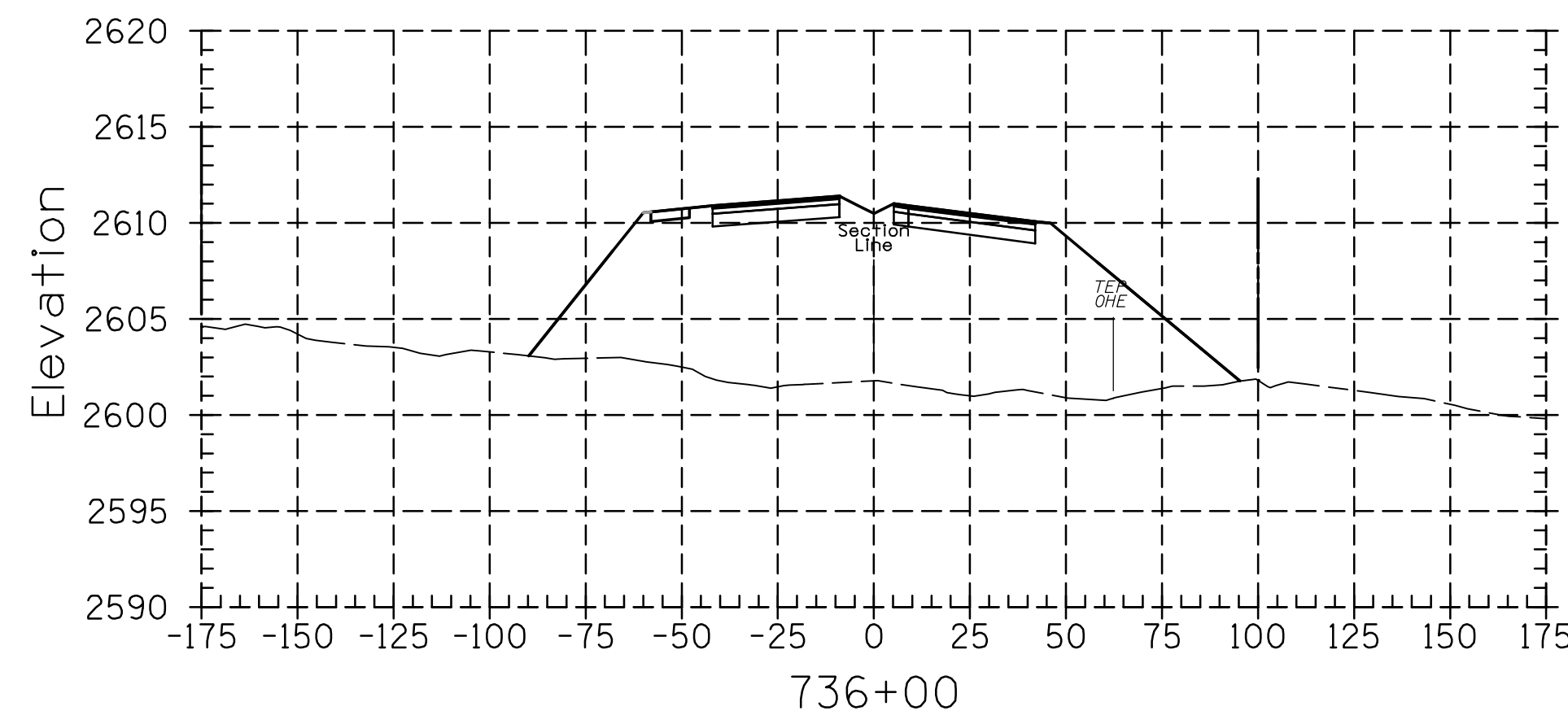
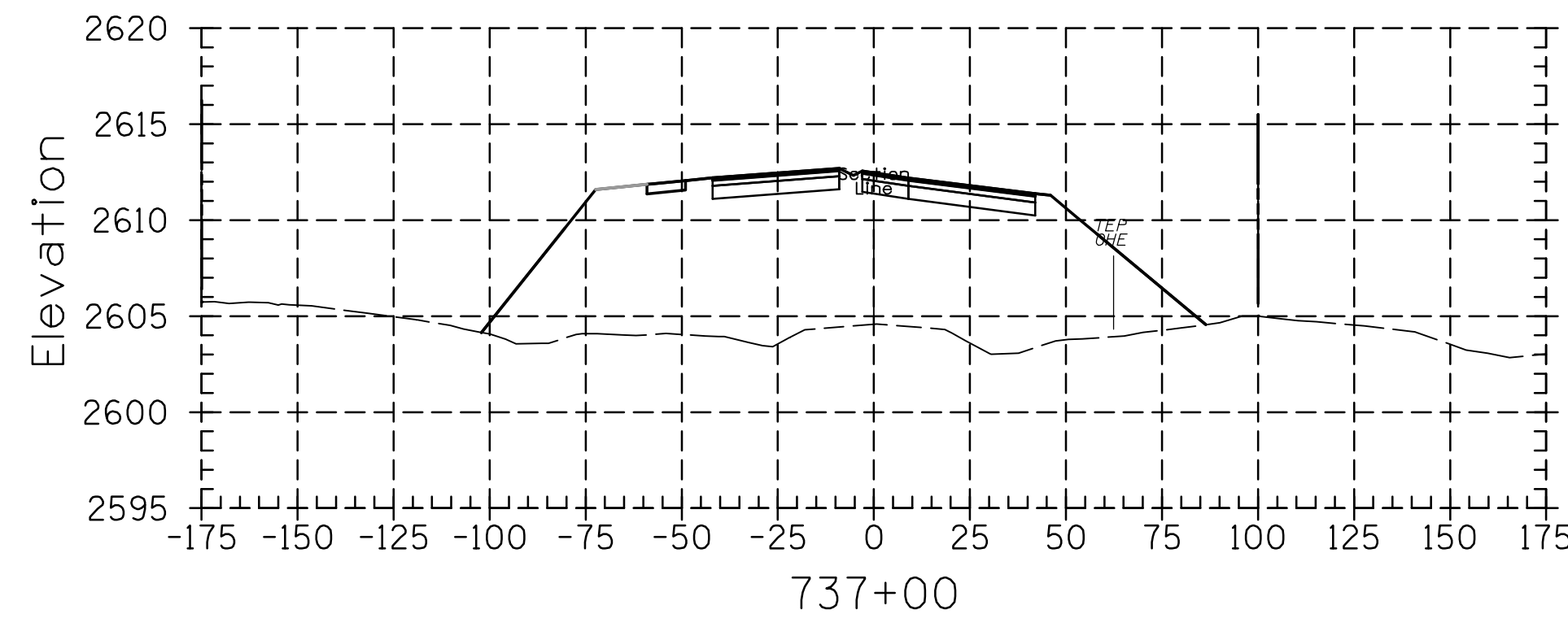
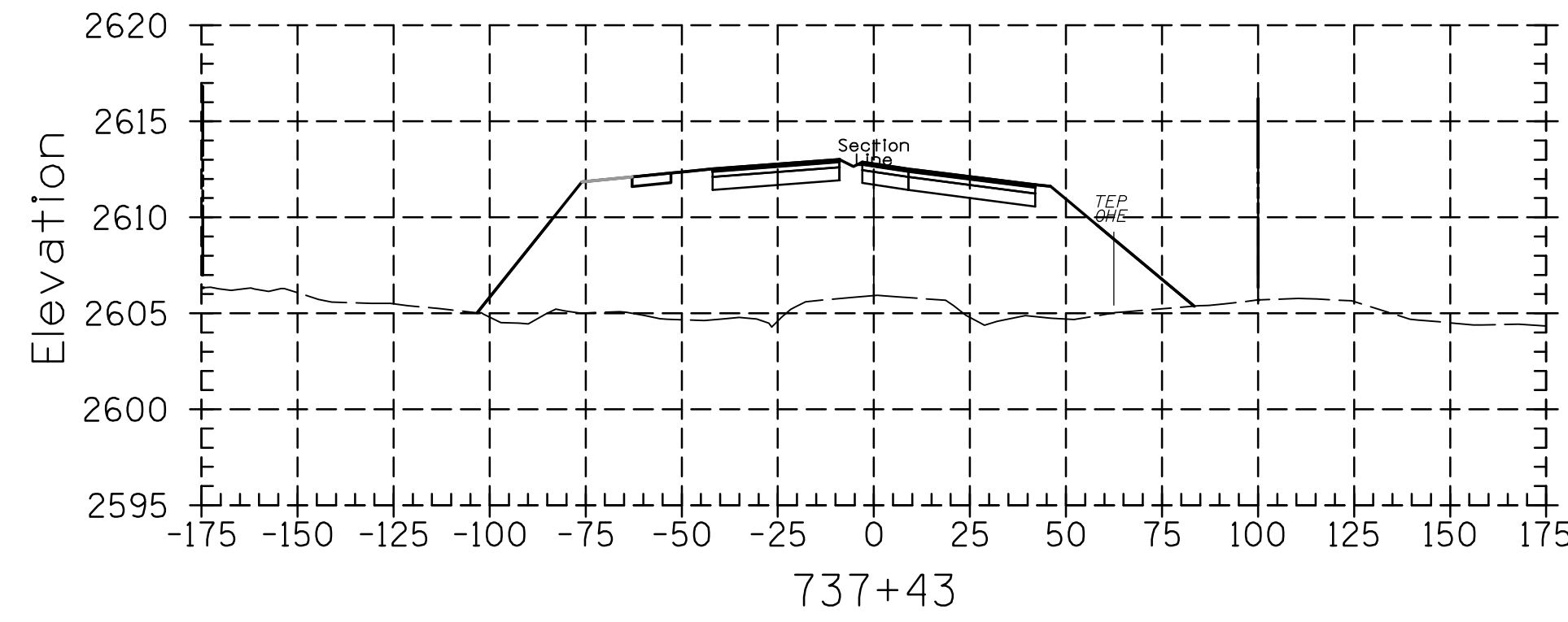
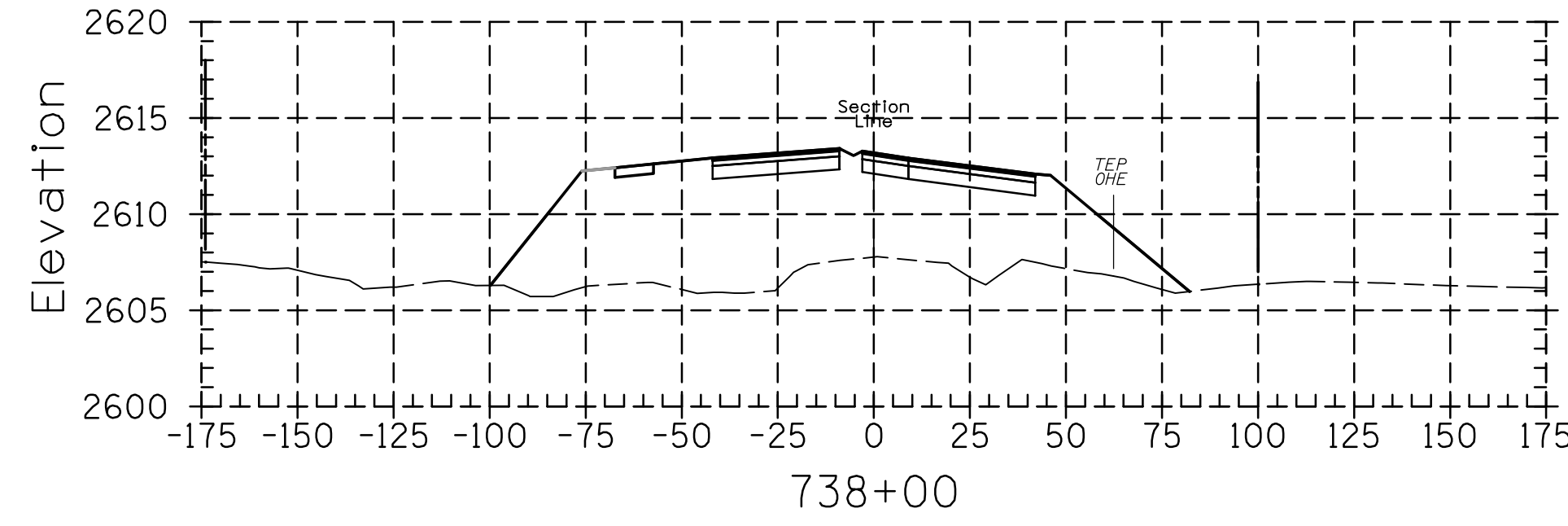
TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS
 FOR
TANGERINE ROAD
 STA 727+00 TO 735+00
 TANGERINE ROAD

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STA 736+00 TO STA 746+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS27 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

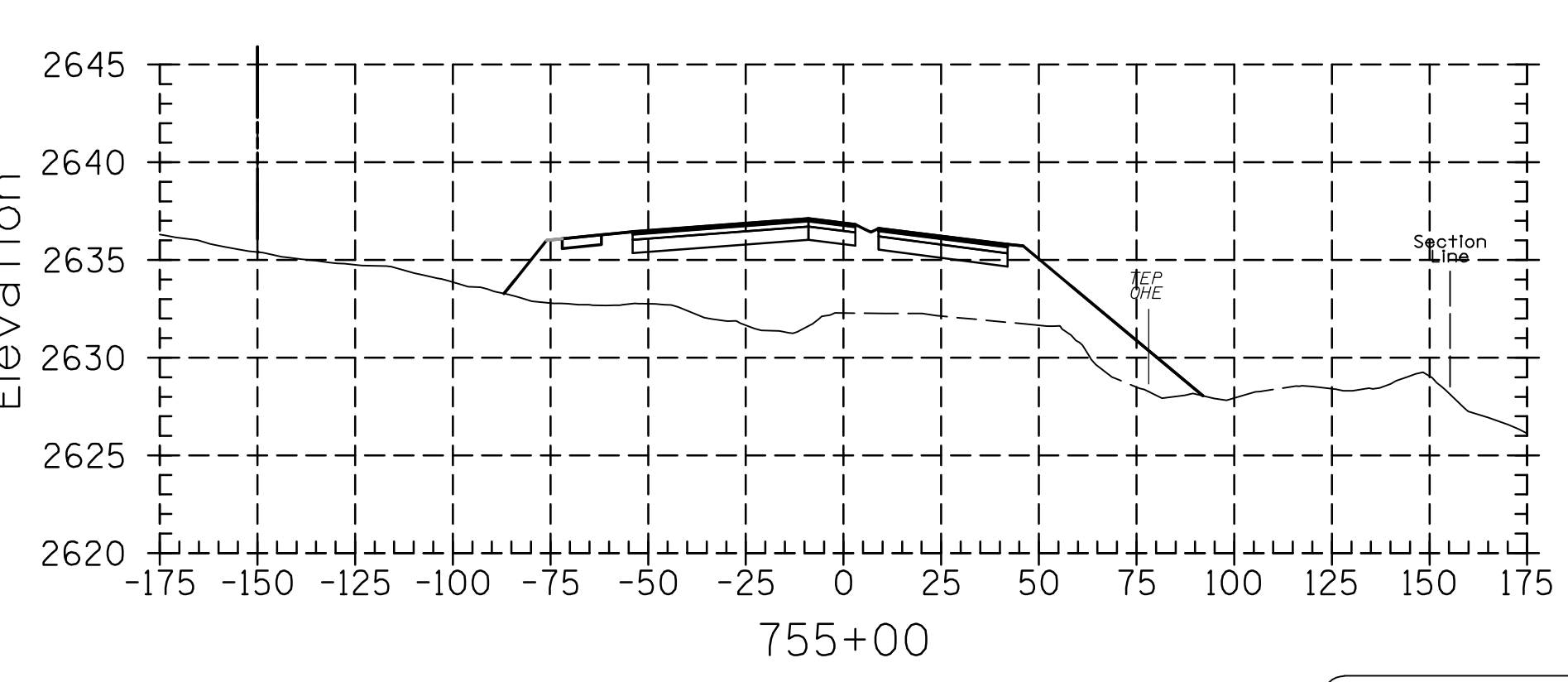
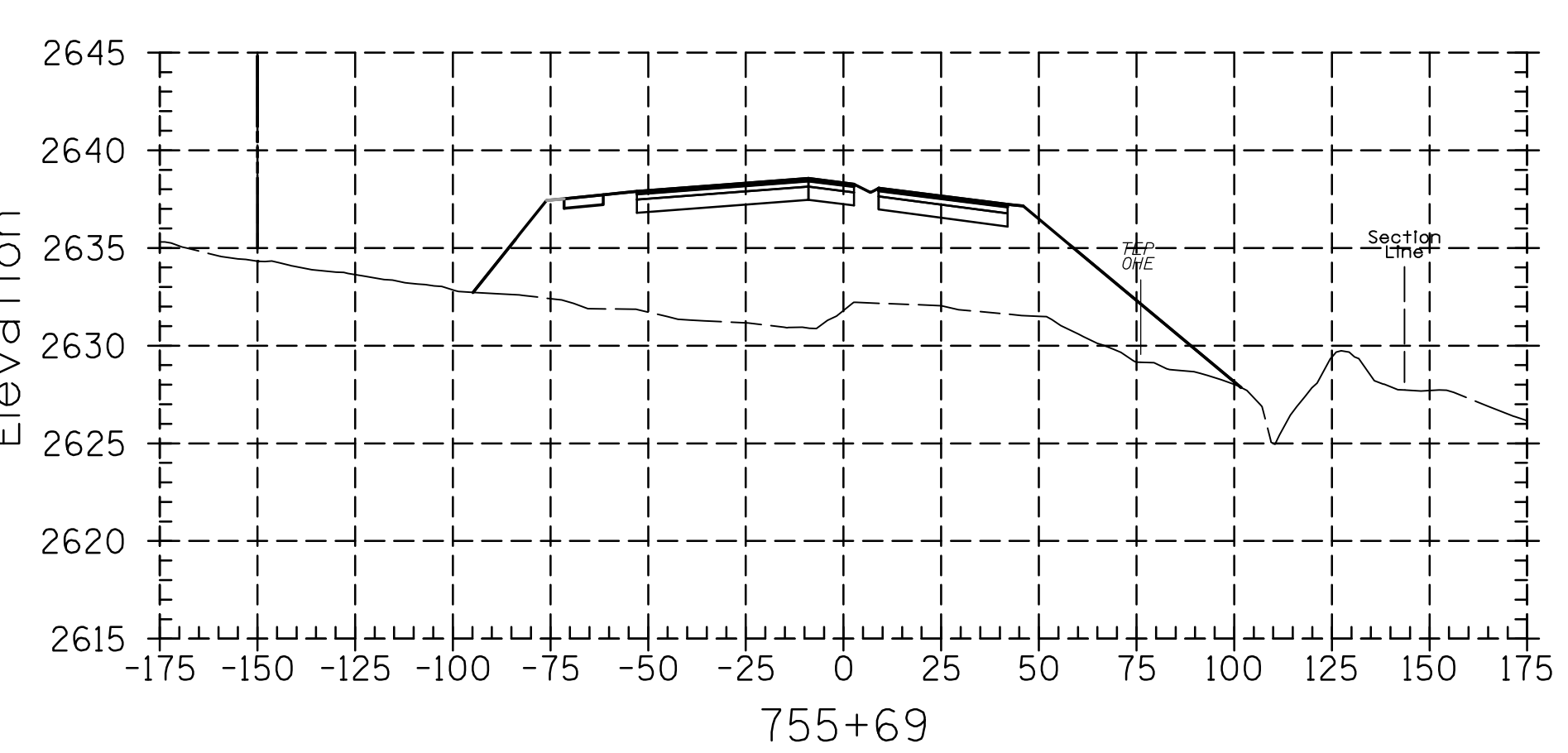
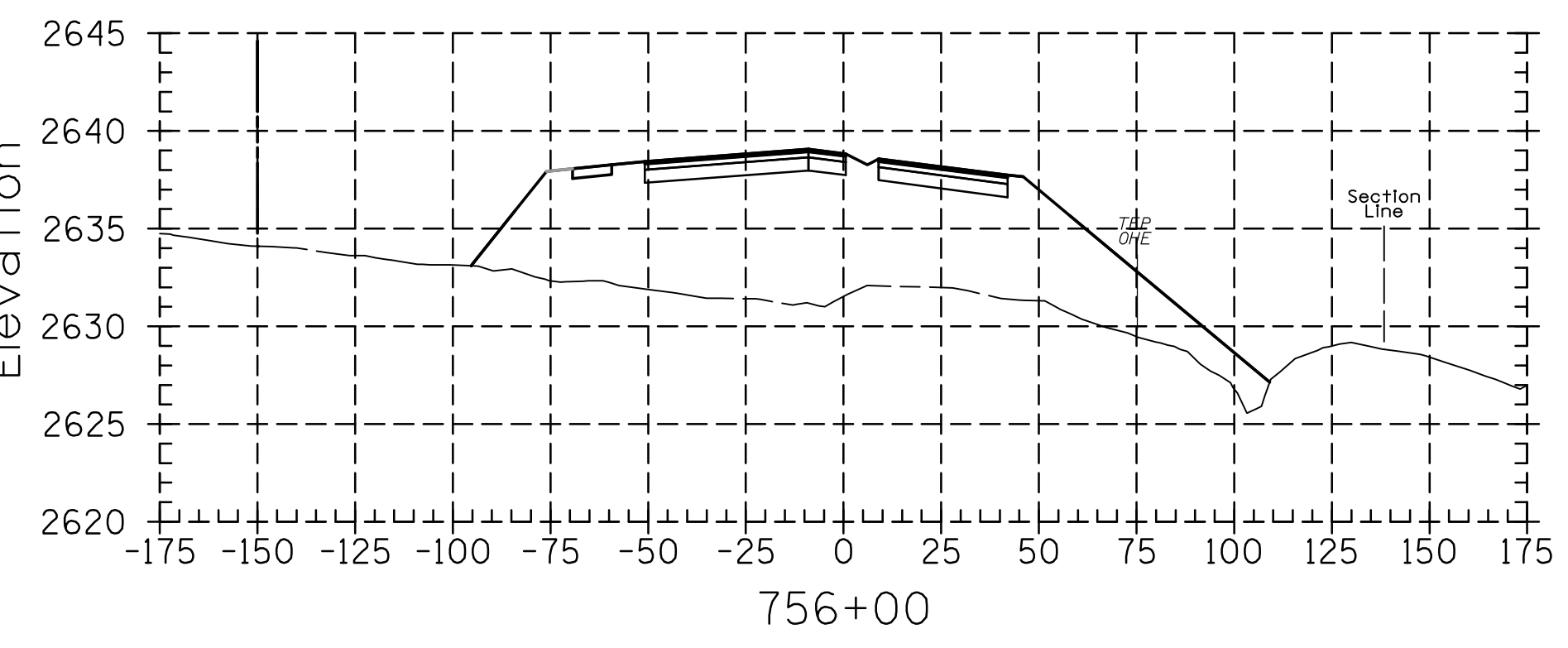
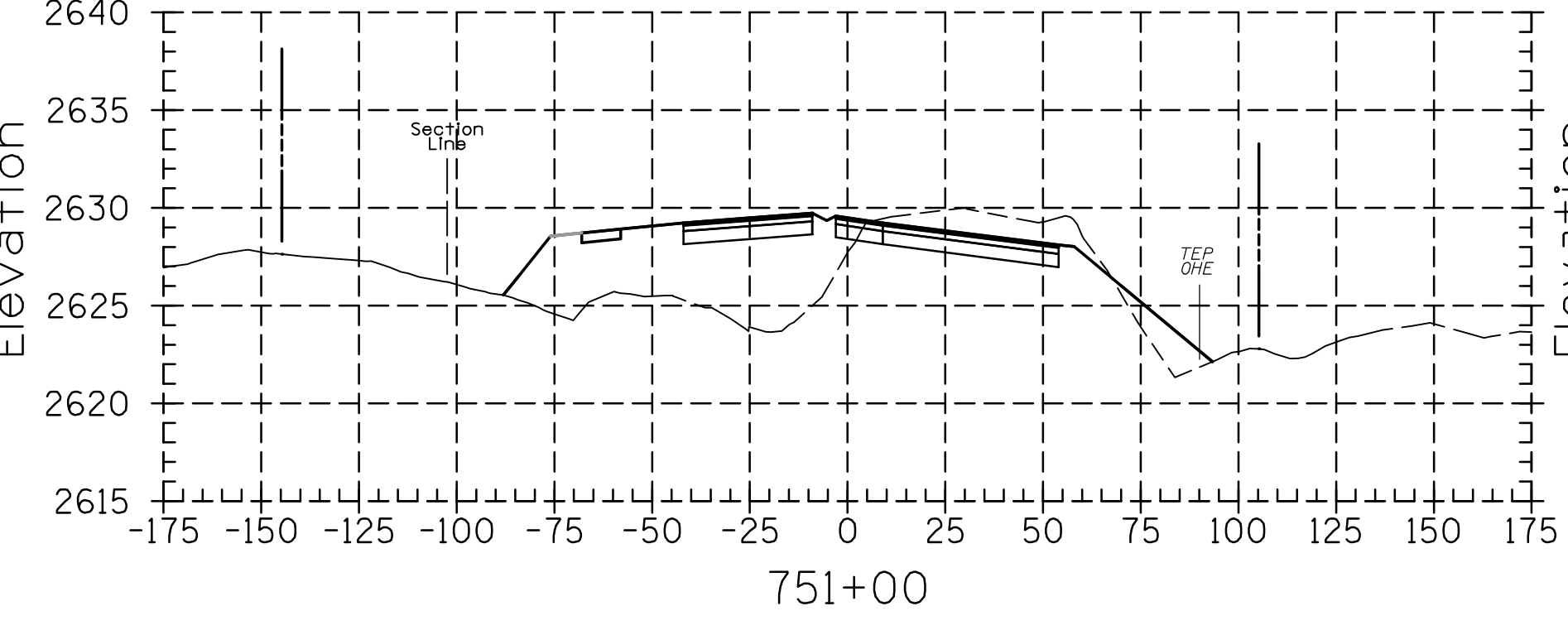
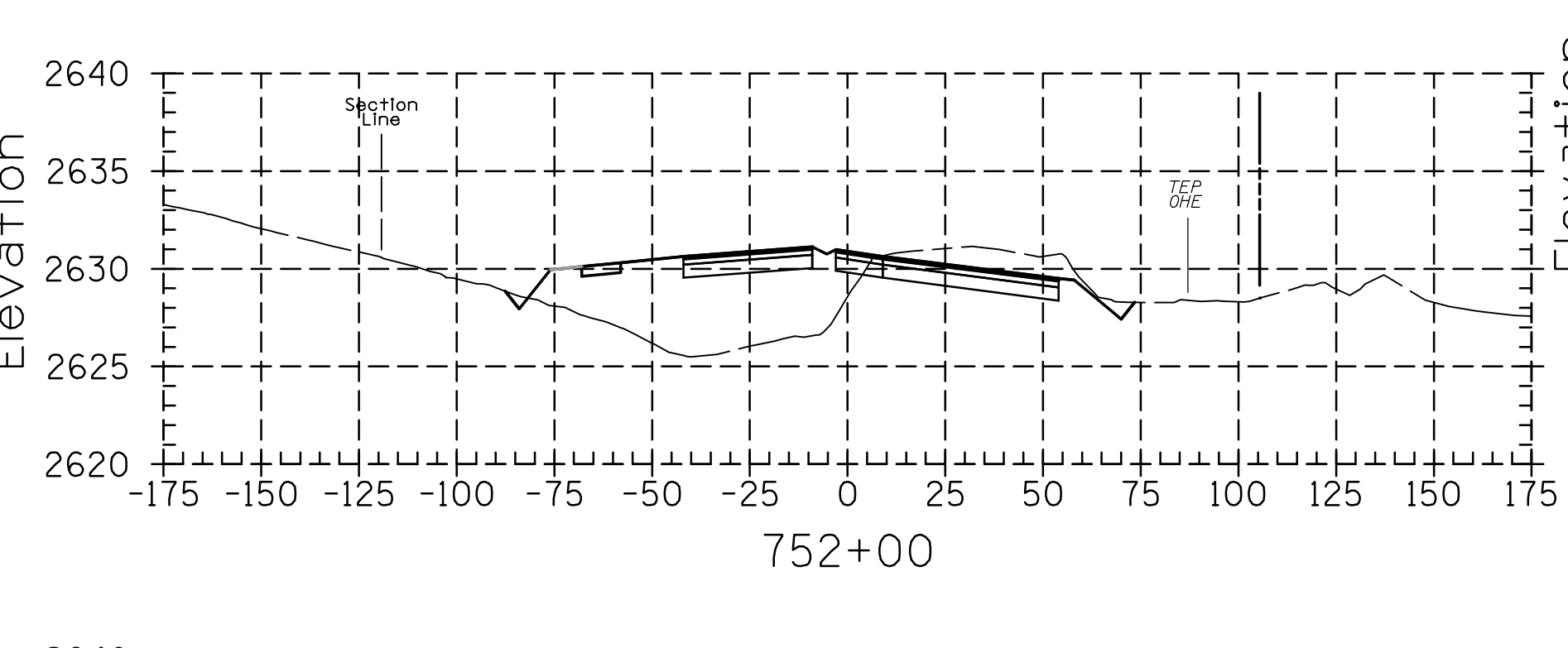
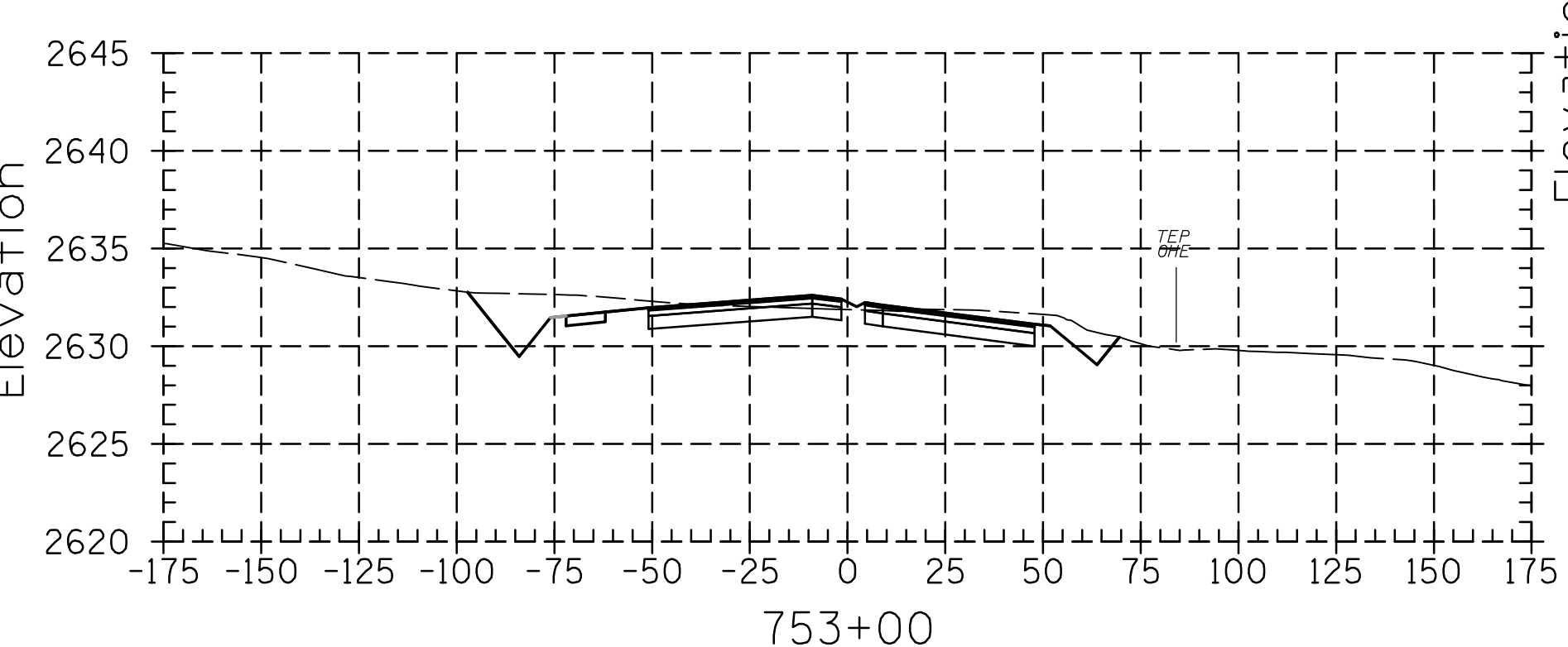
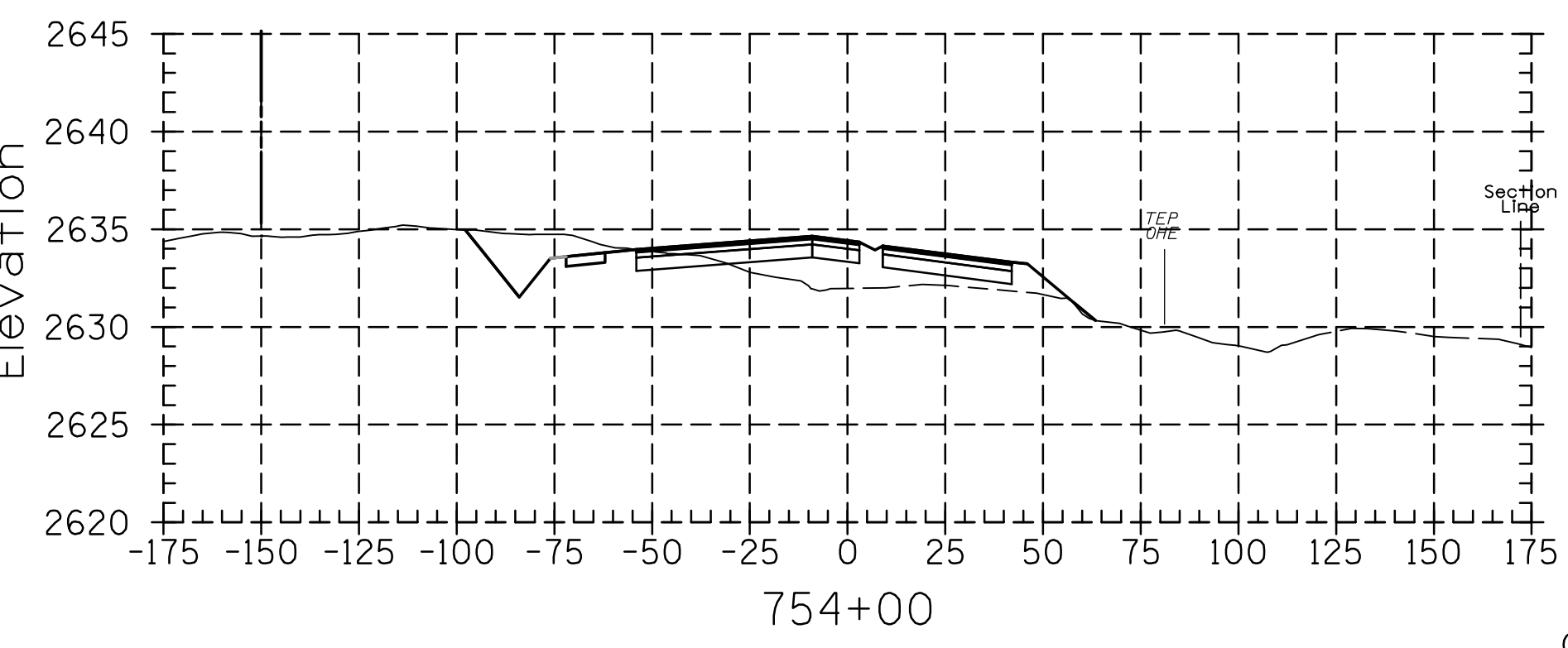
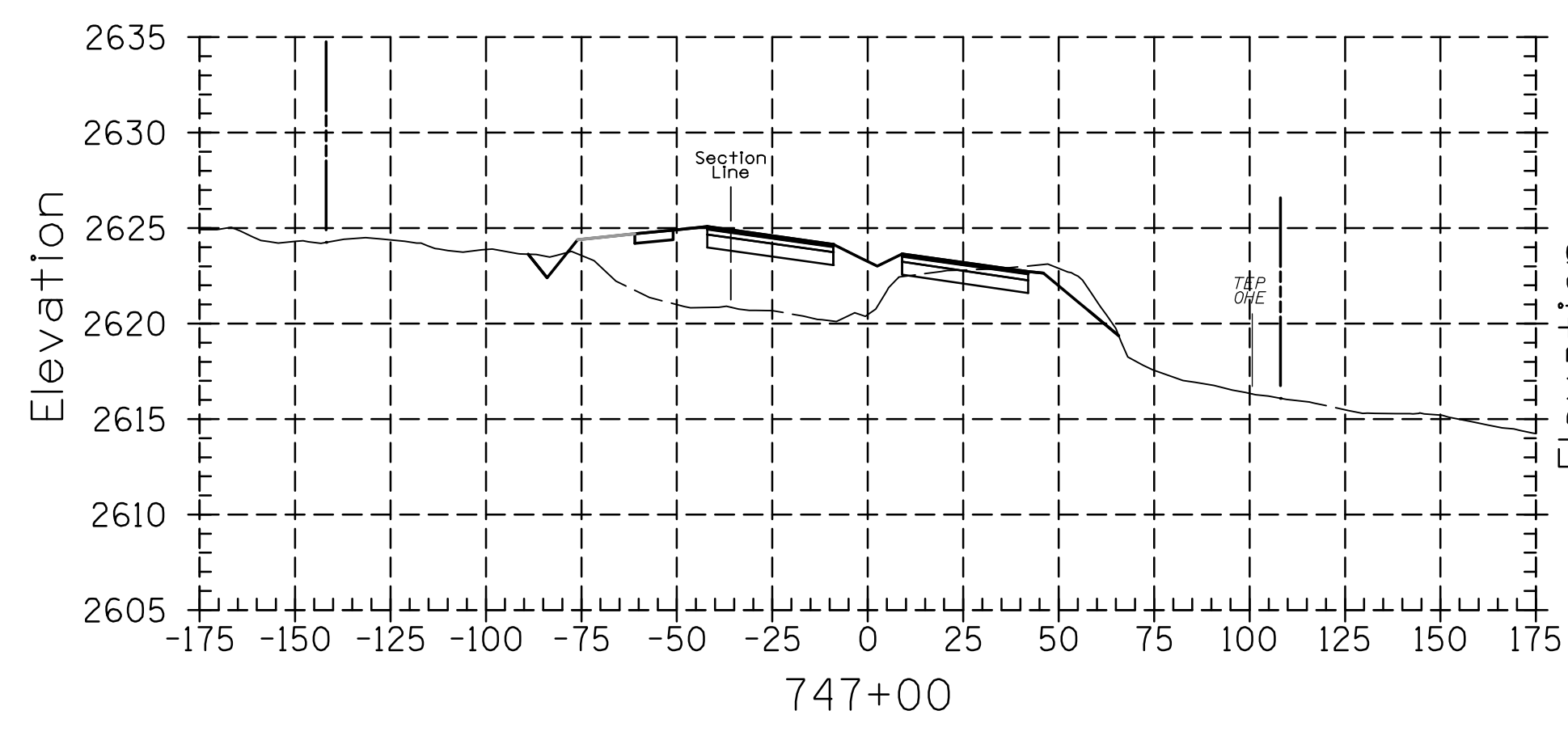
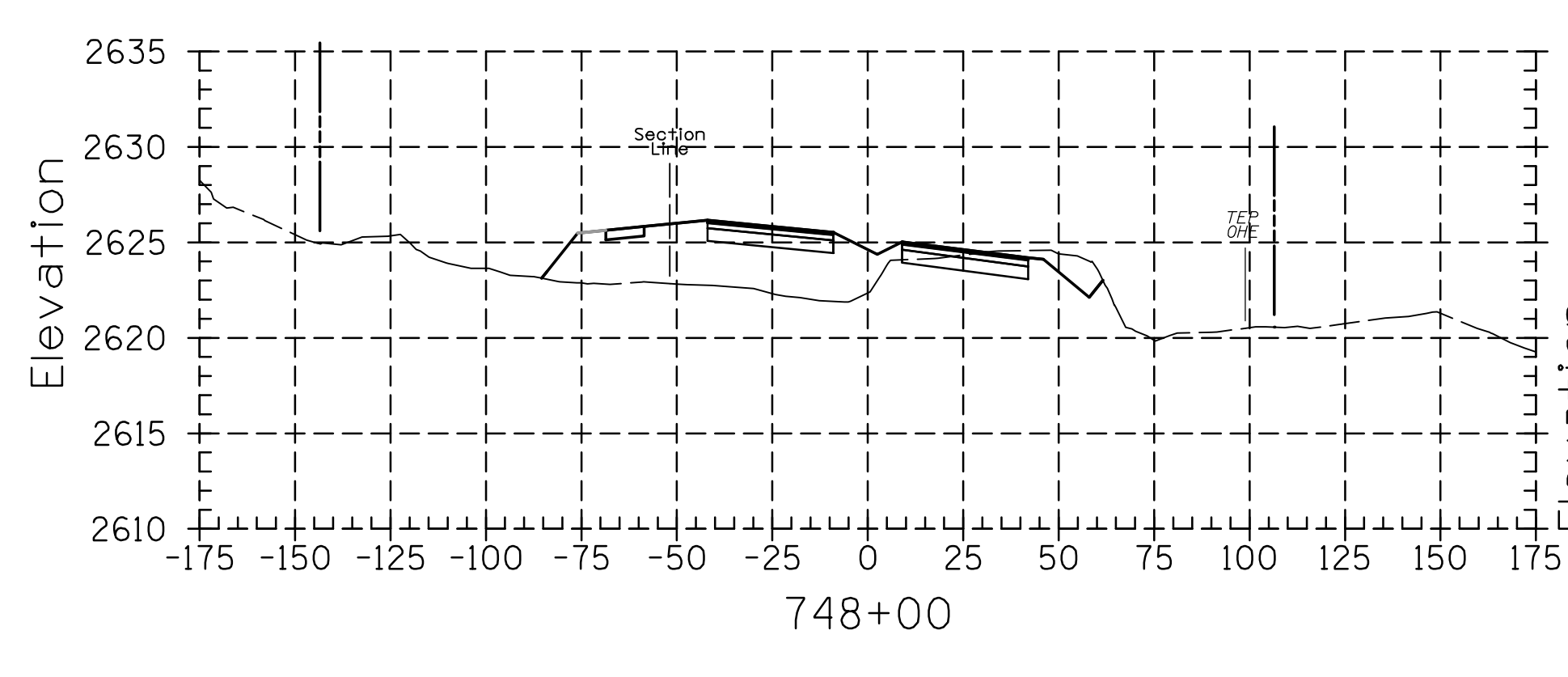
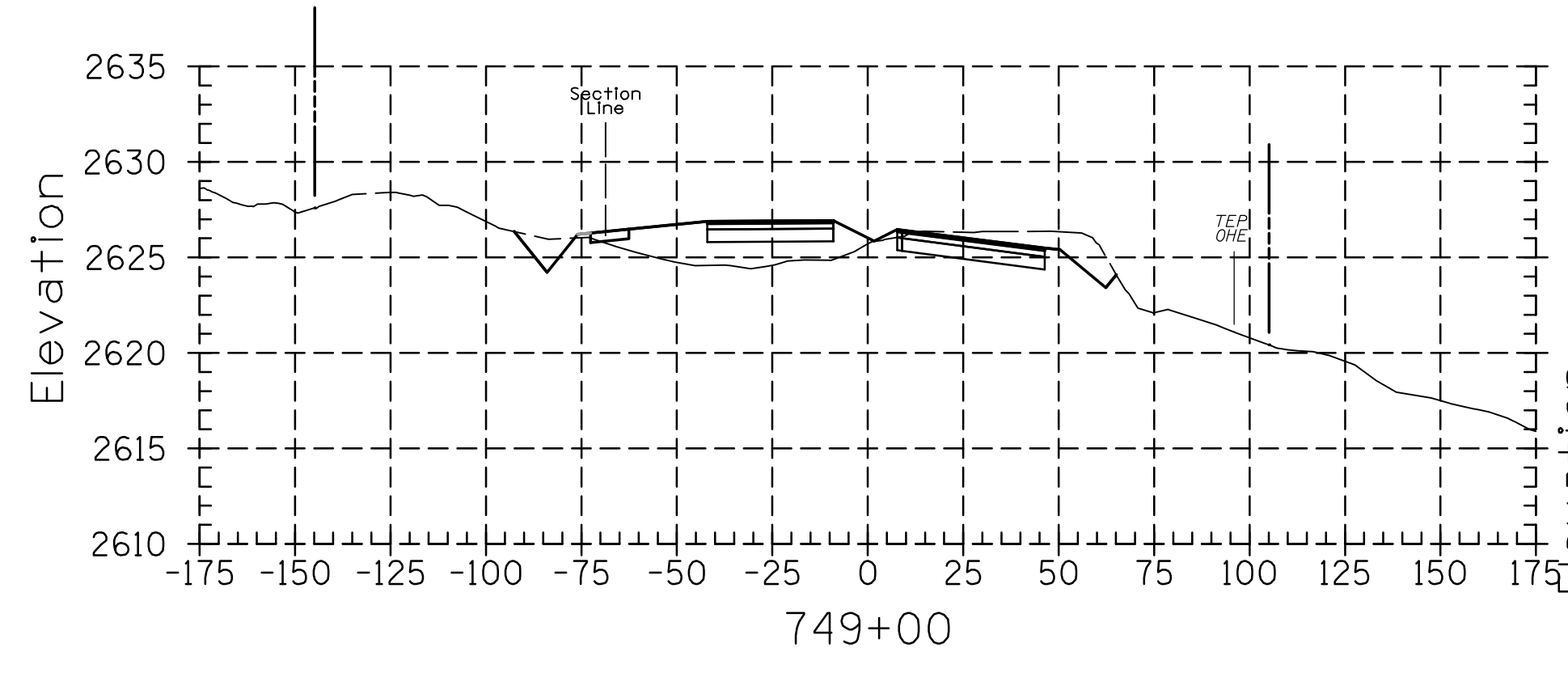
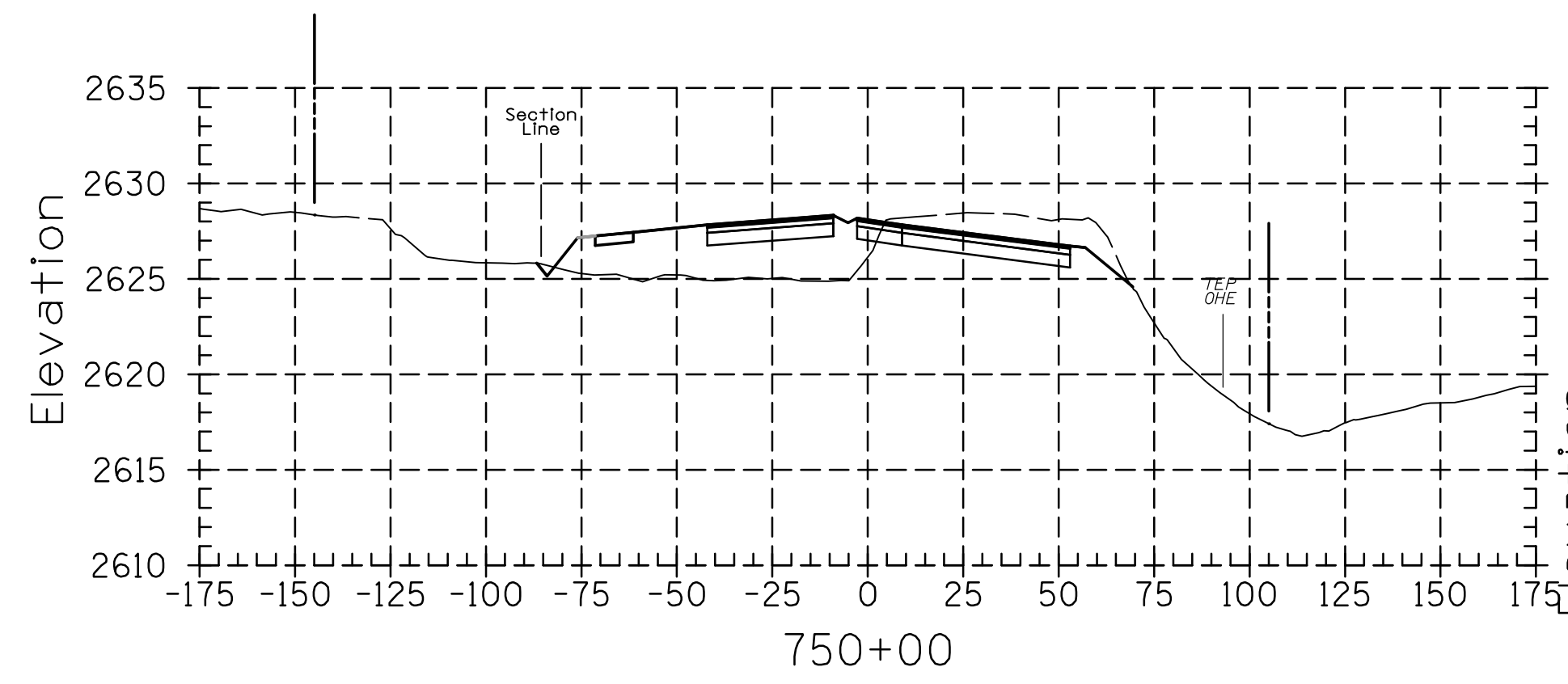
CROSS SECTIONS FOR
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STA 736+00 TO 746+00
TANGERINE ROAD

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STA 747+00 TO STA 756+00



SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS28 OF XS31

PAGE OF

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
STA 747+00 TO 756+00
TANGERINE ROAD

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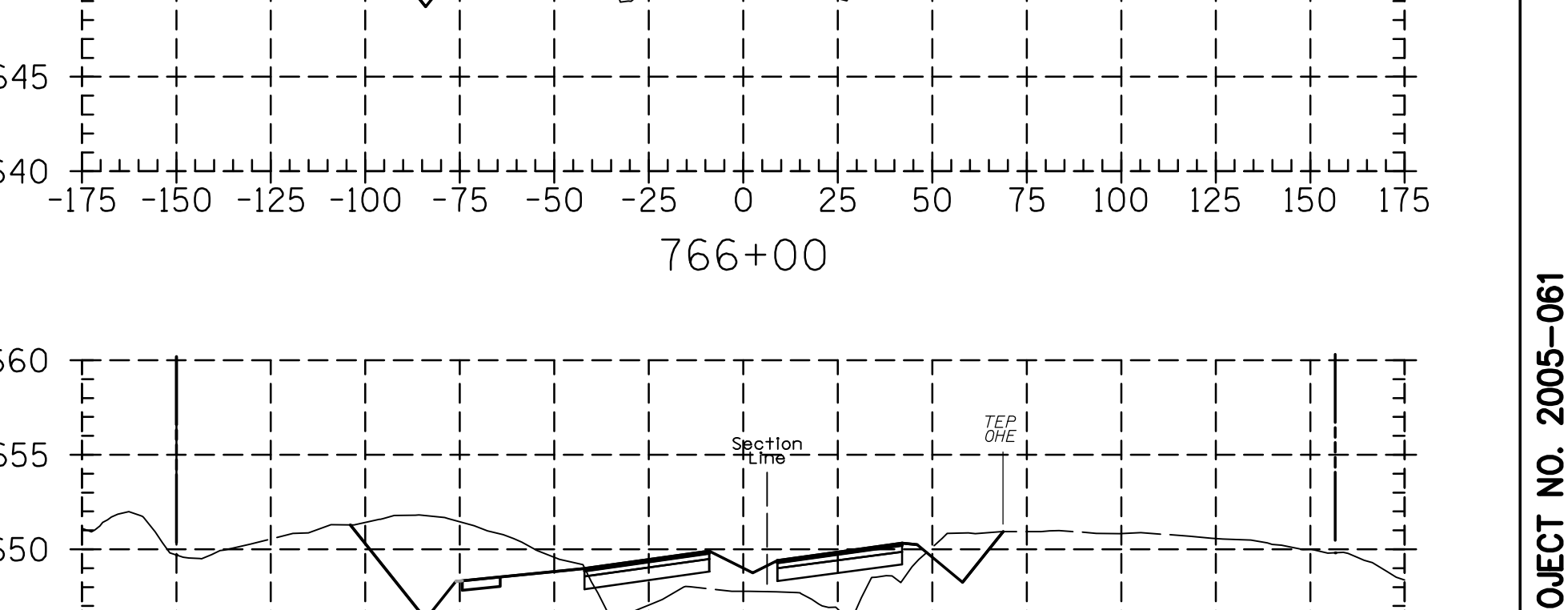
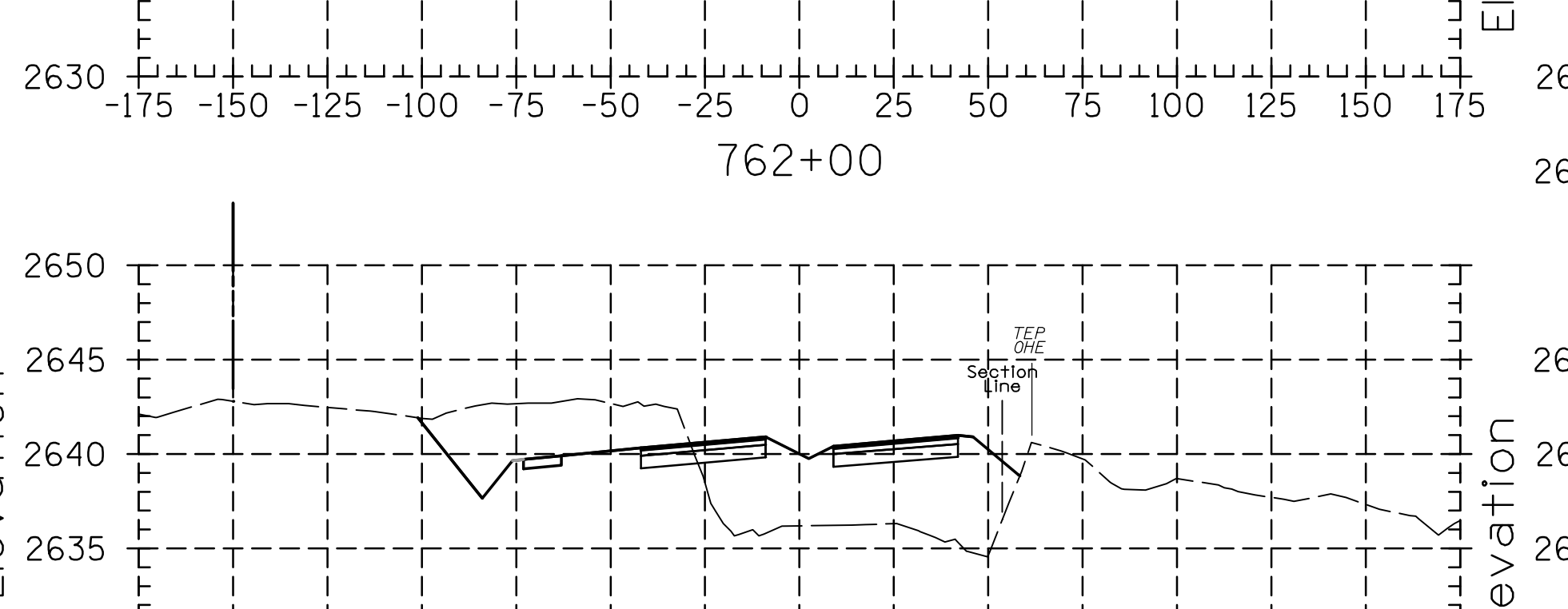
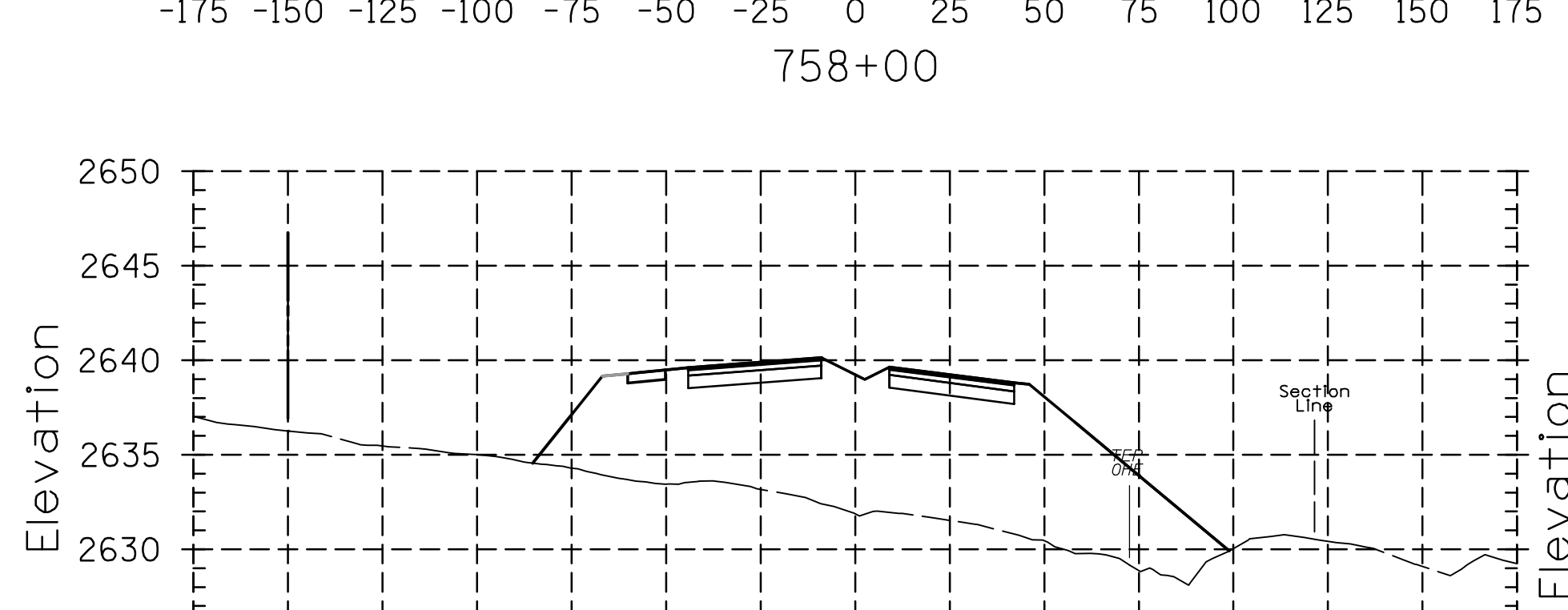
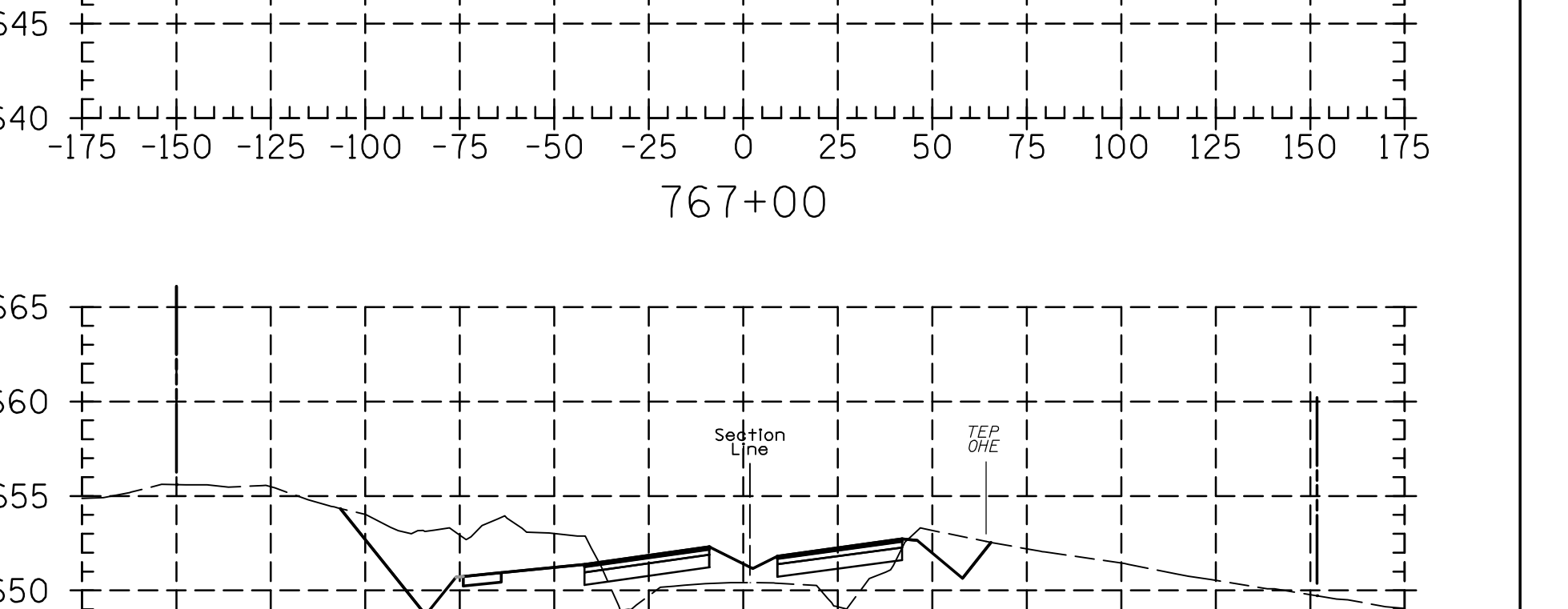
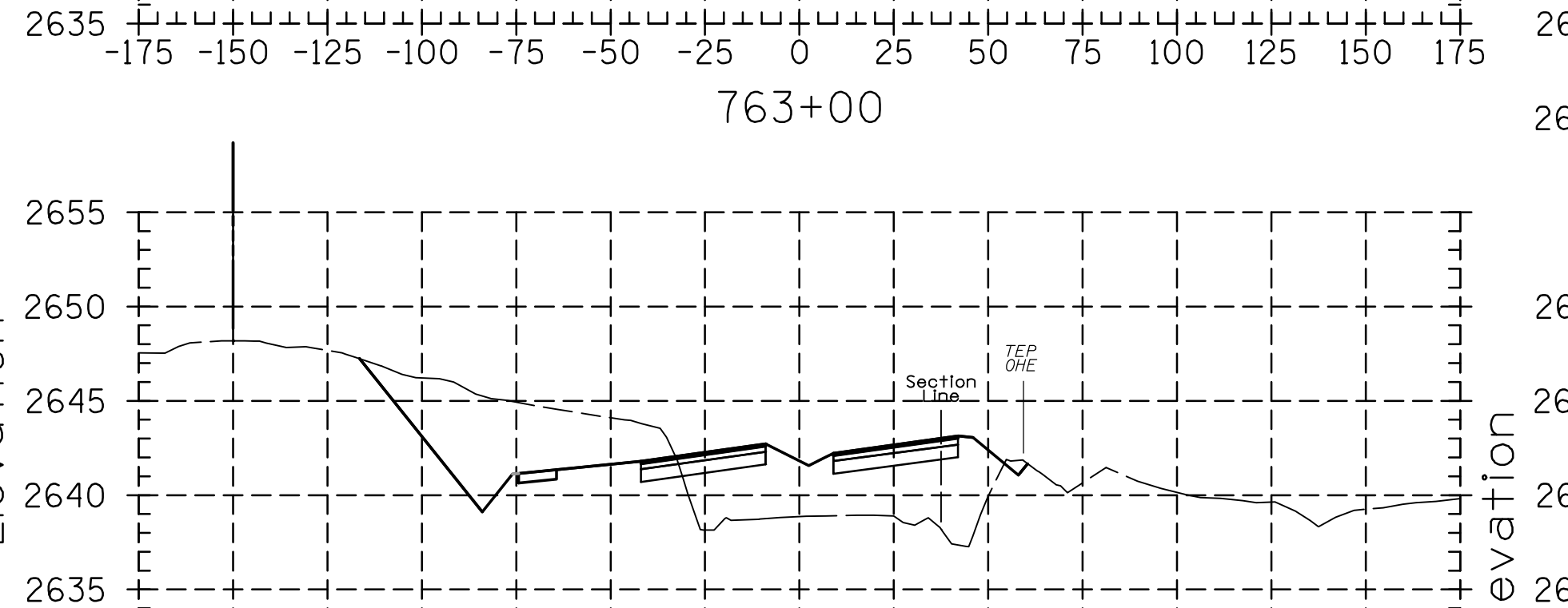
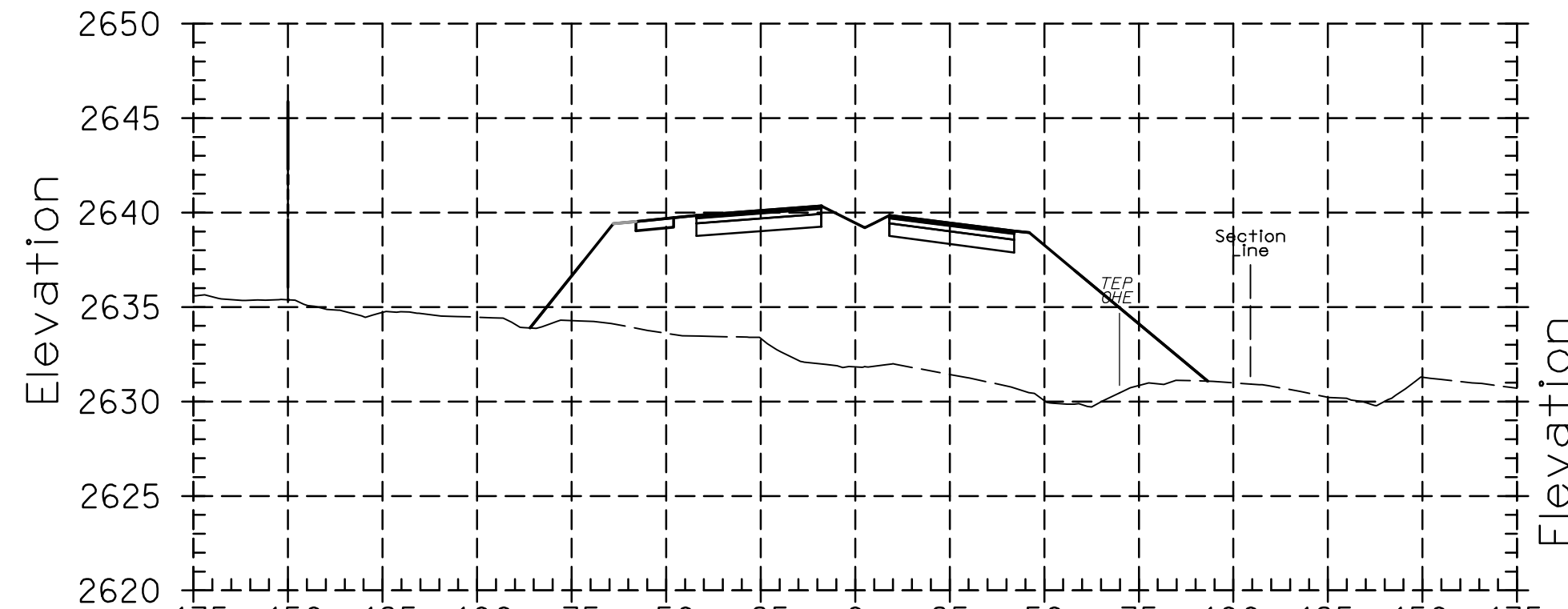
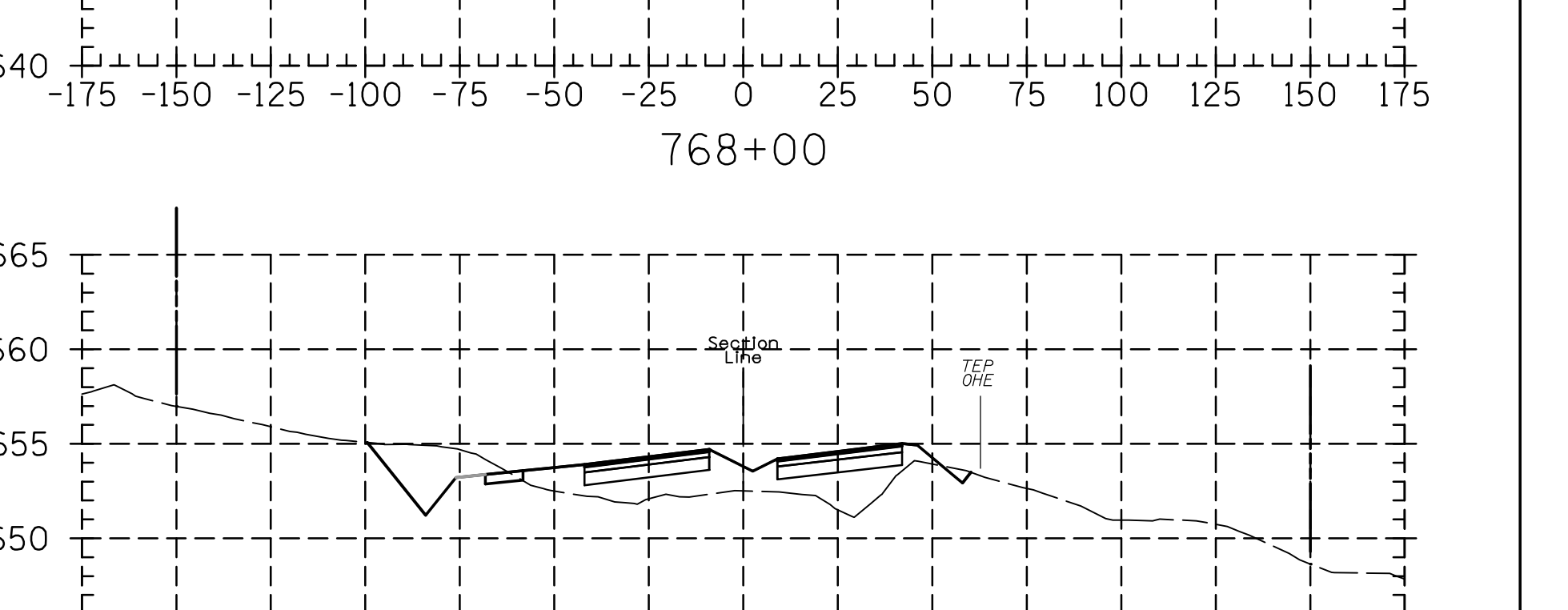
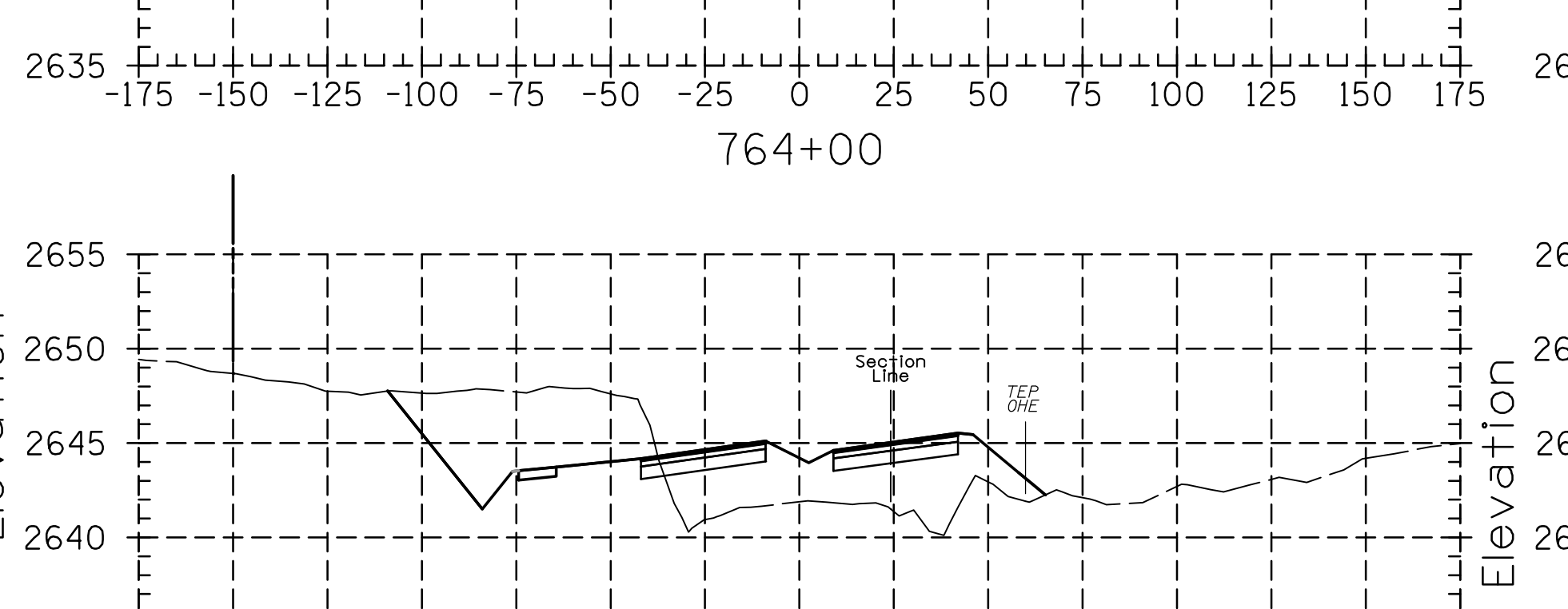
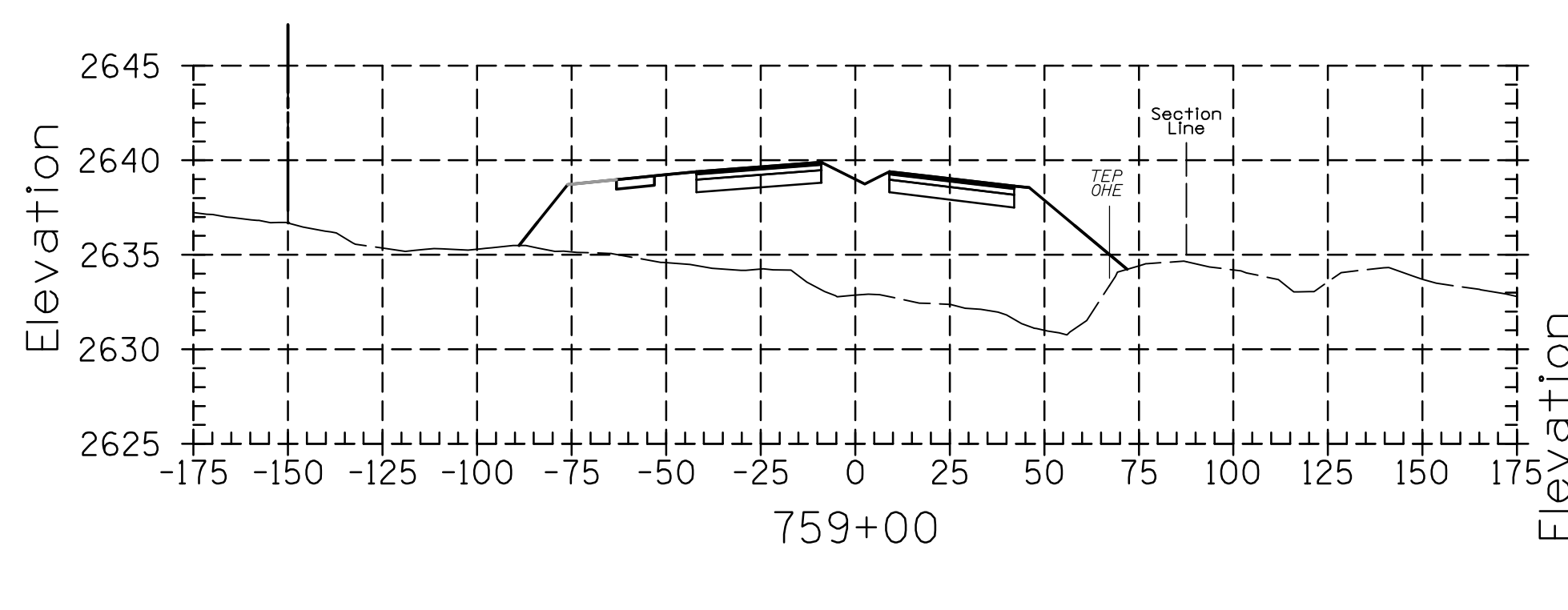
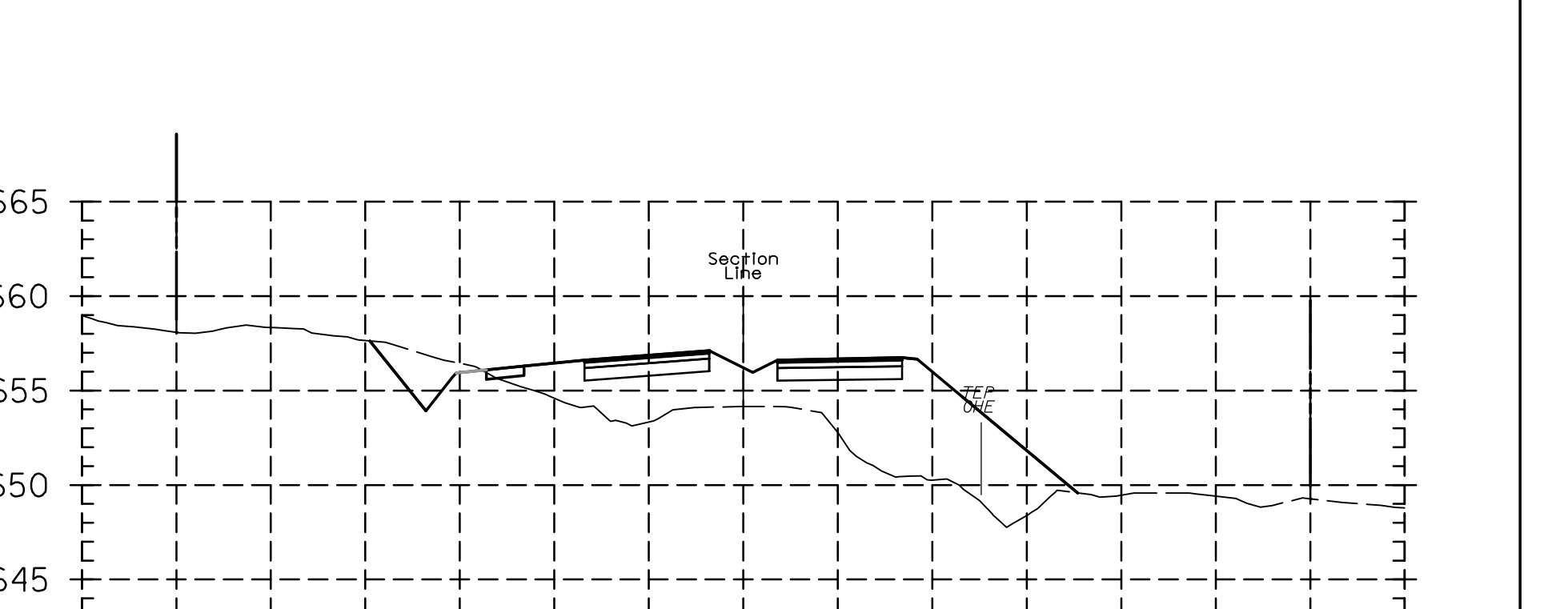
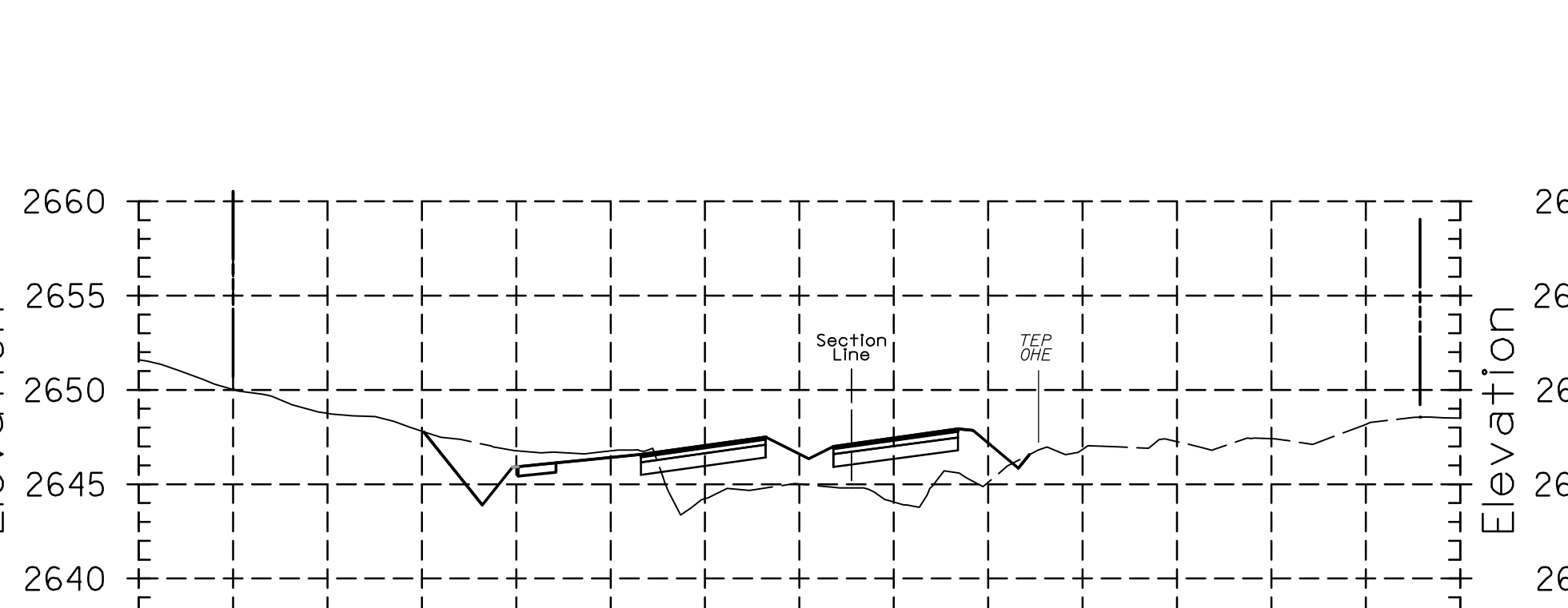
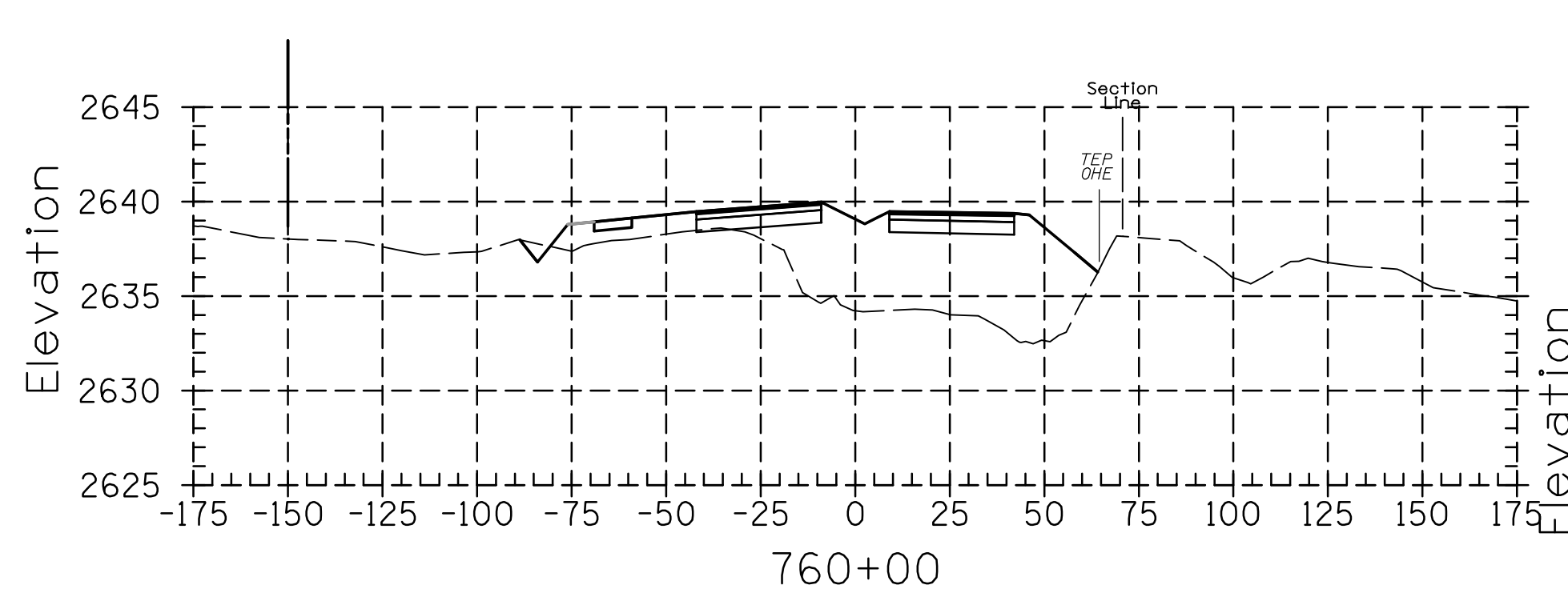
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STA 757+00 TO STA 768+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS29 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
 STA 757+00 TO 768+00
 TANGERINE ROAD

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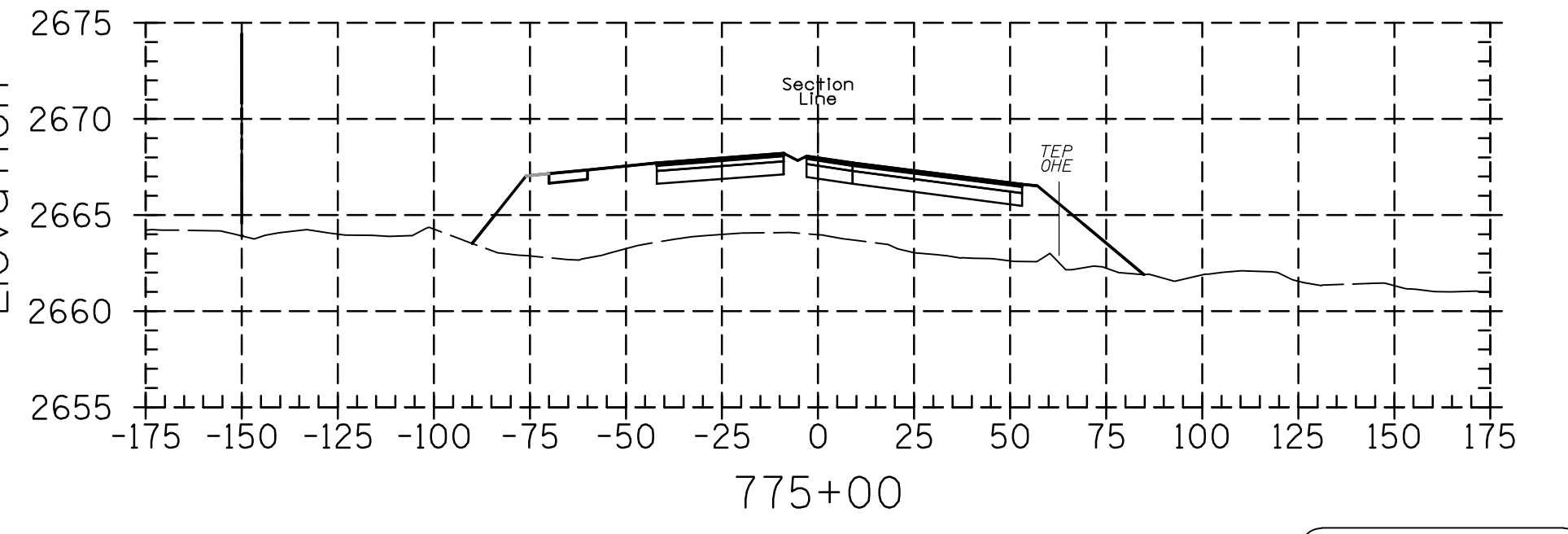
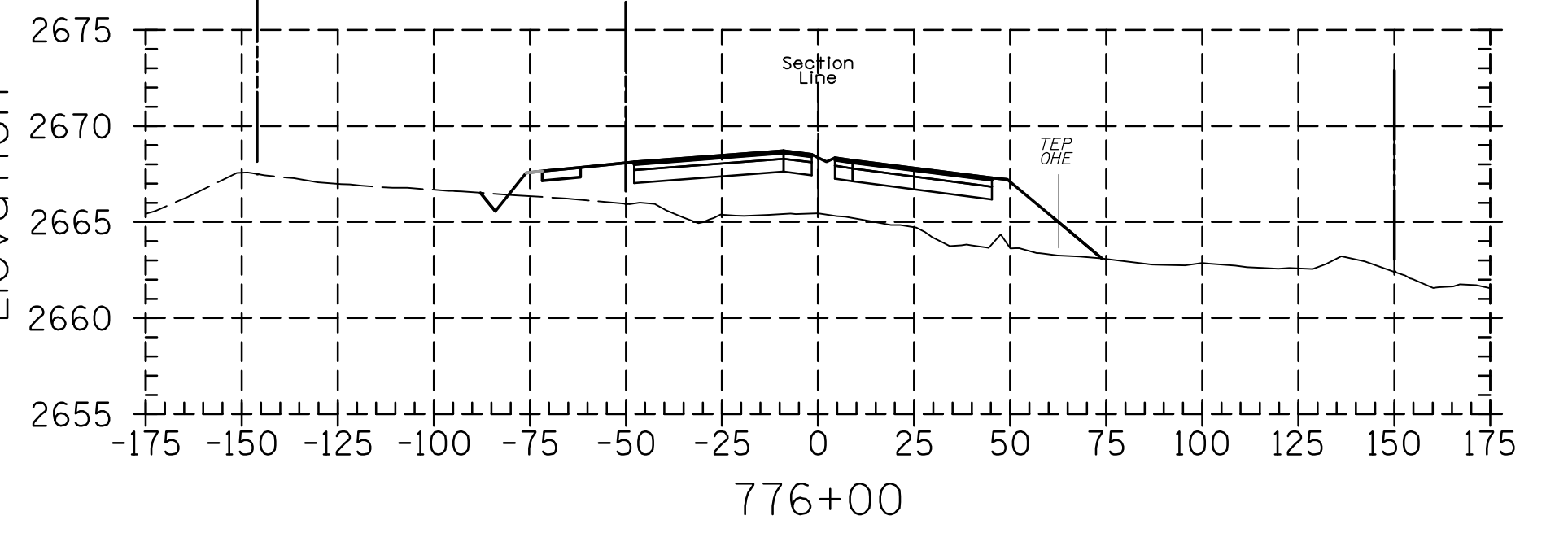
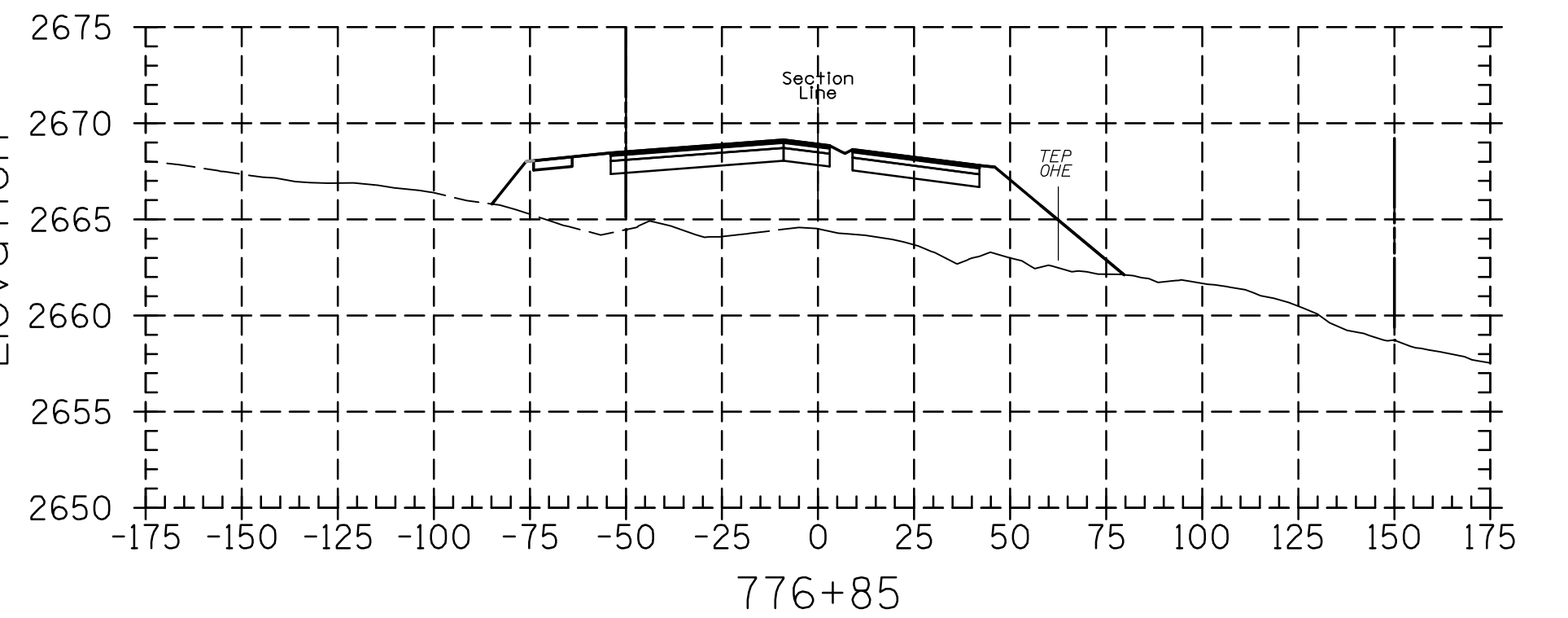
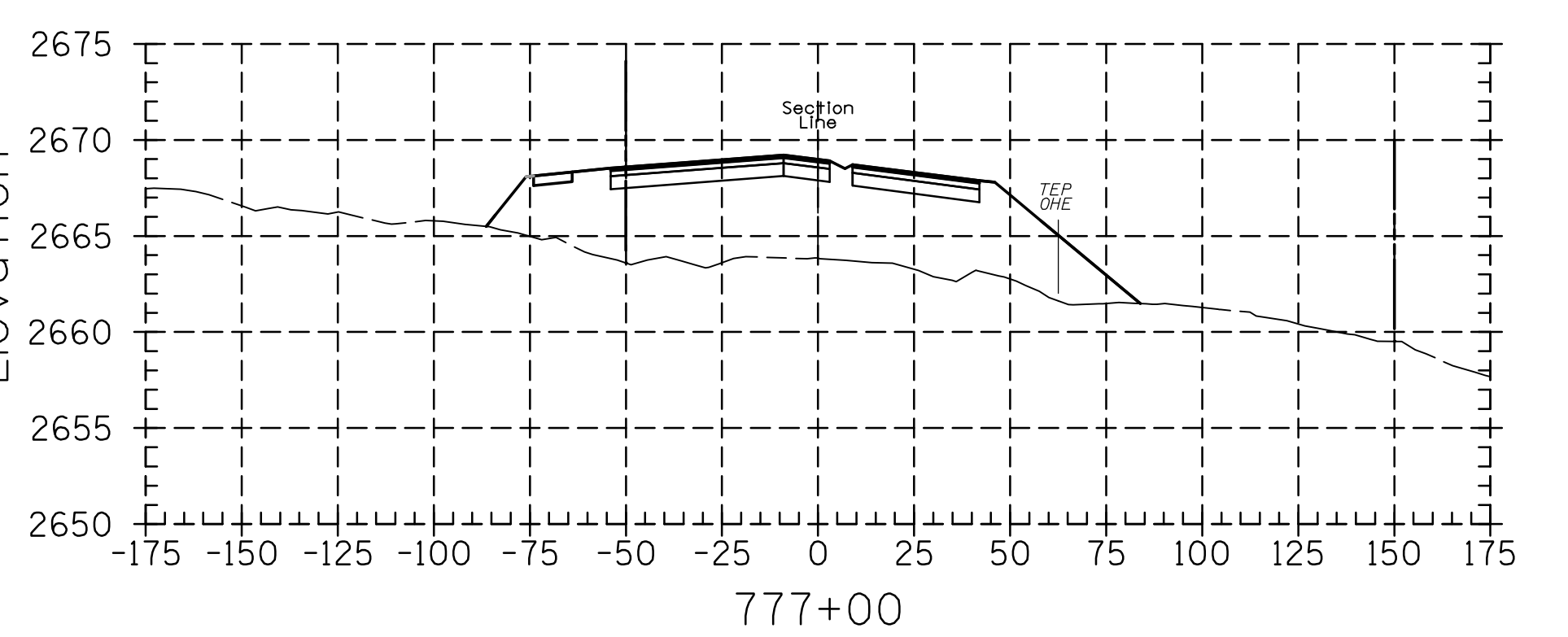
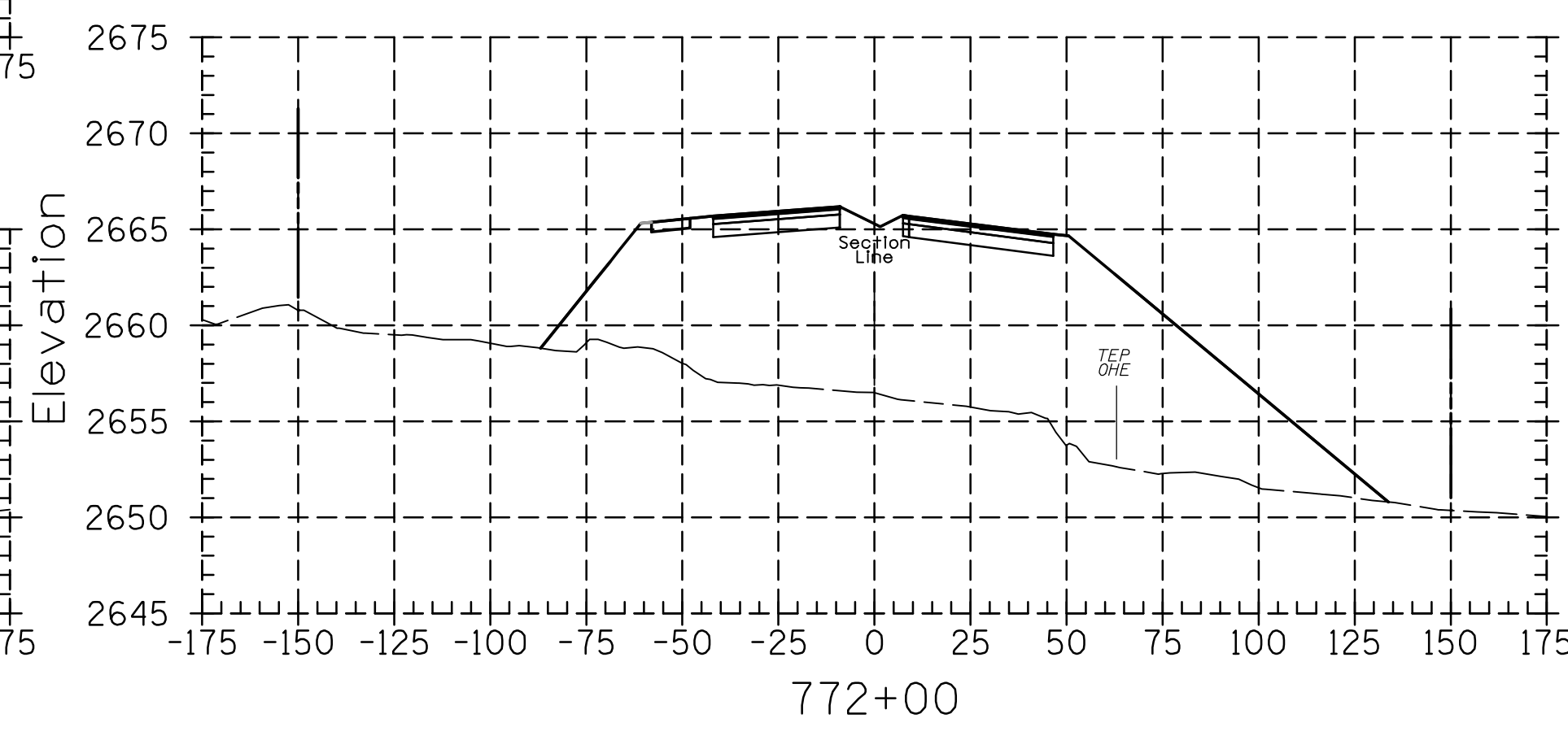
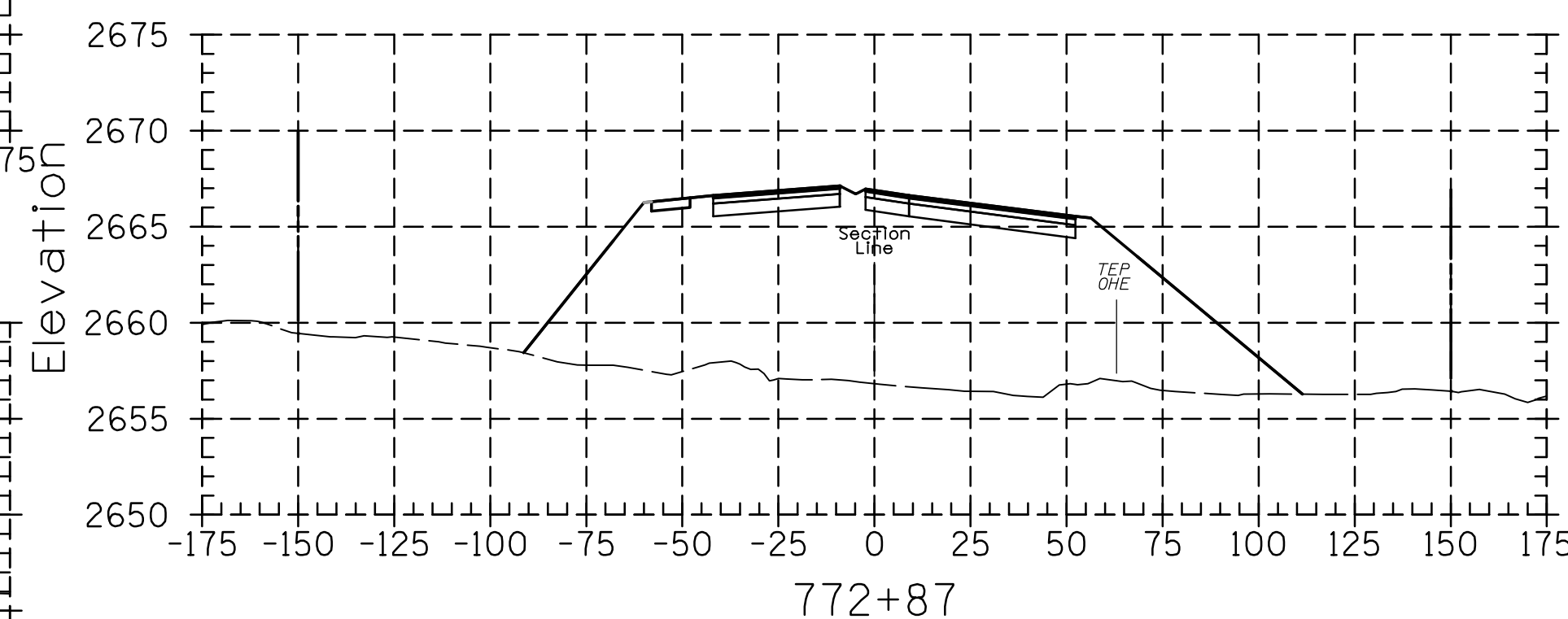
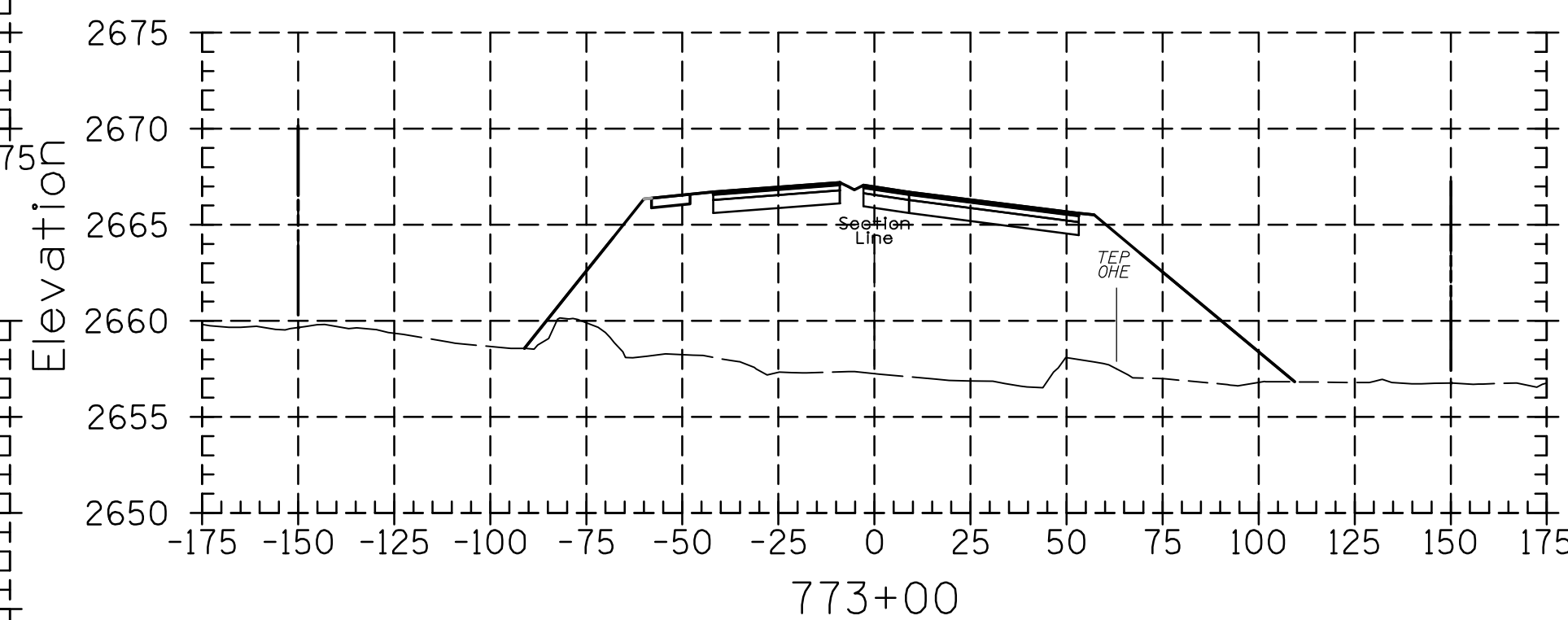
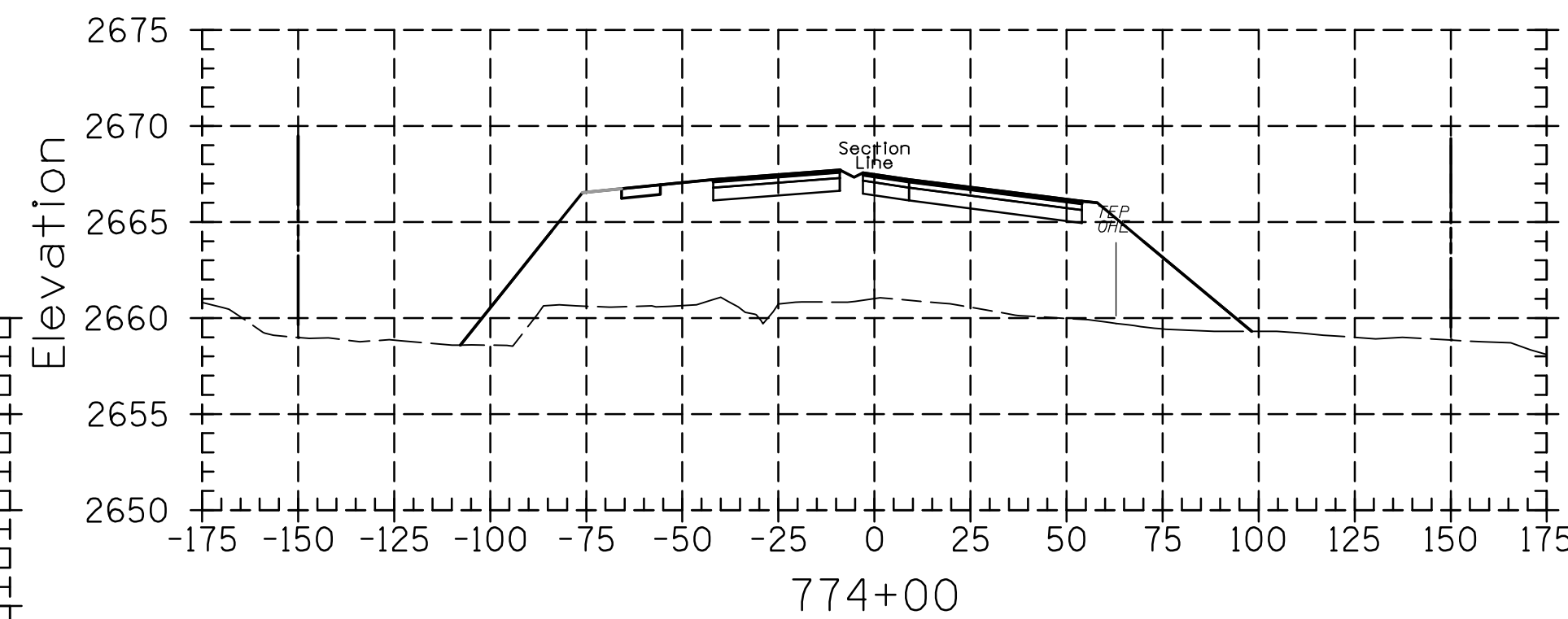
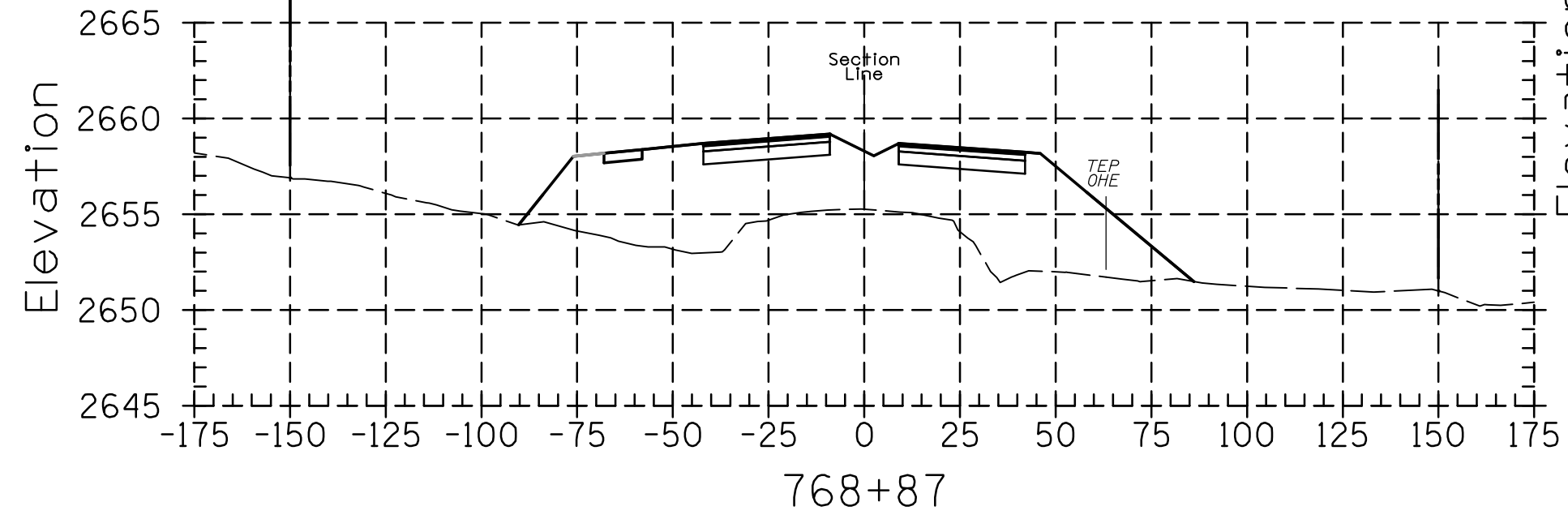
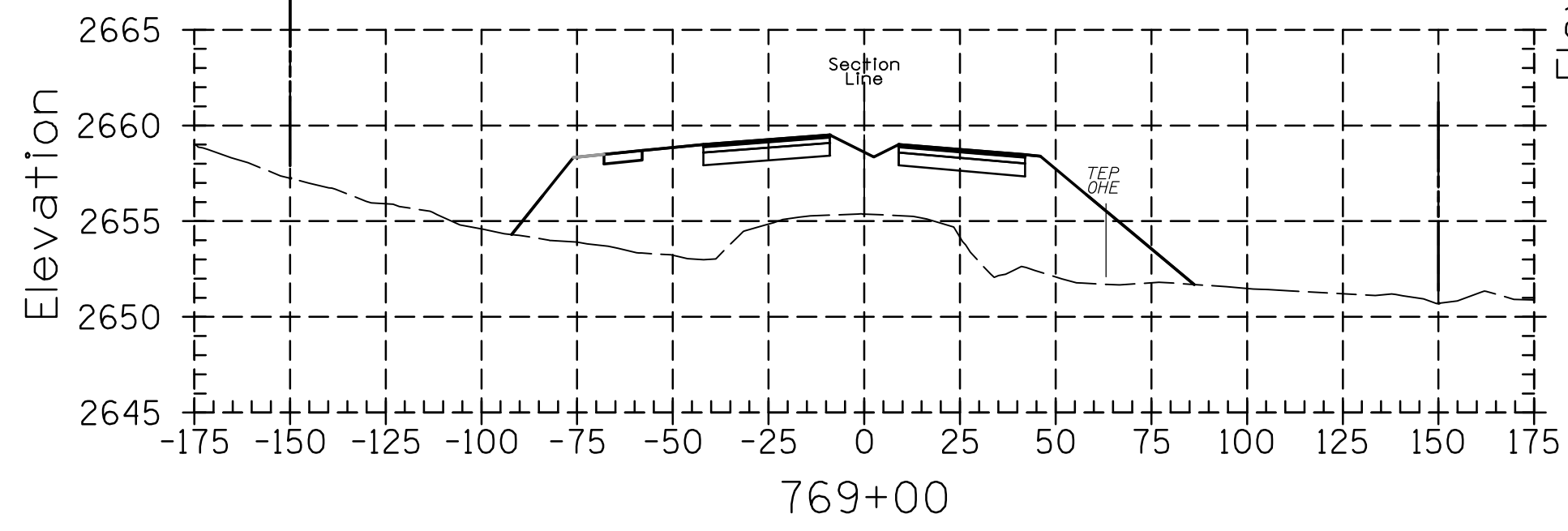
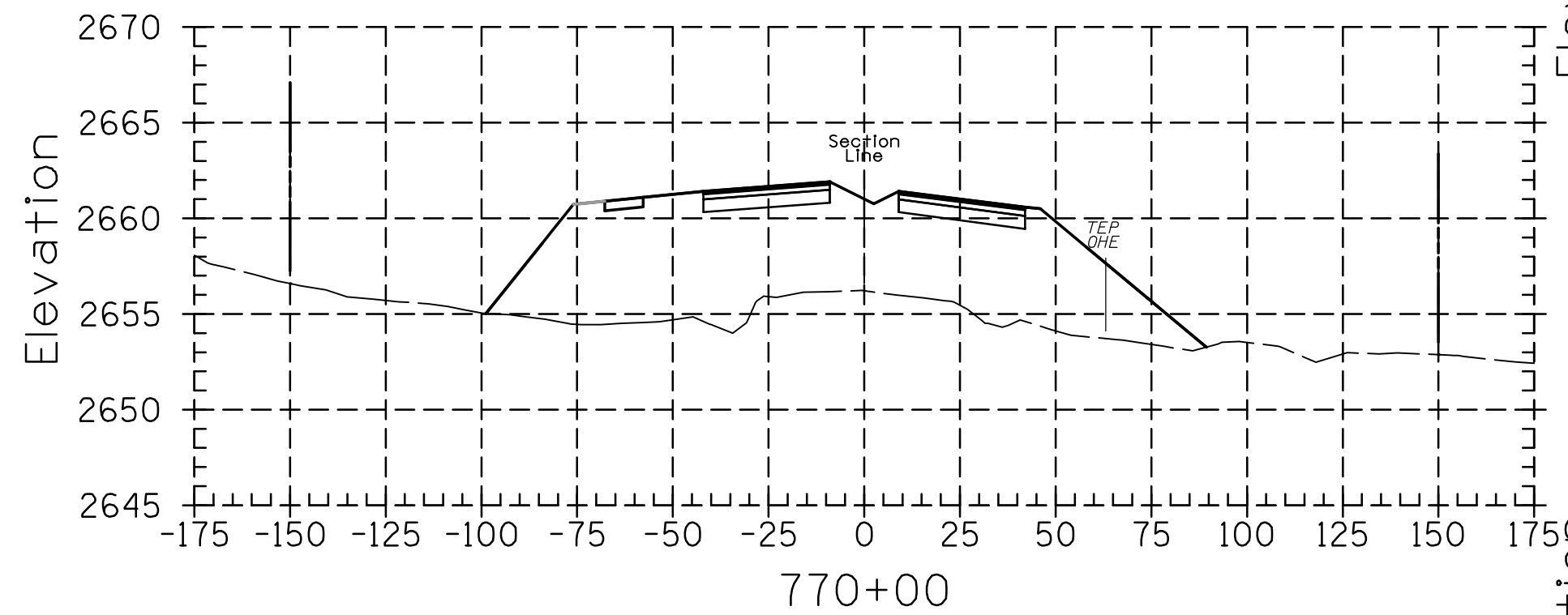
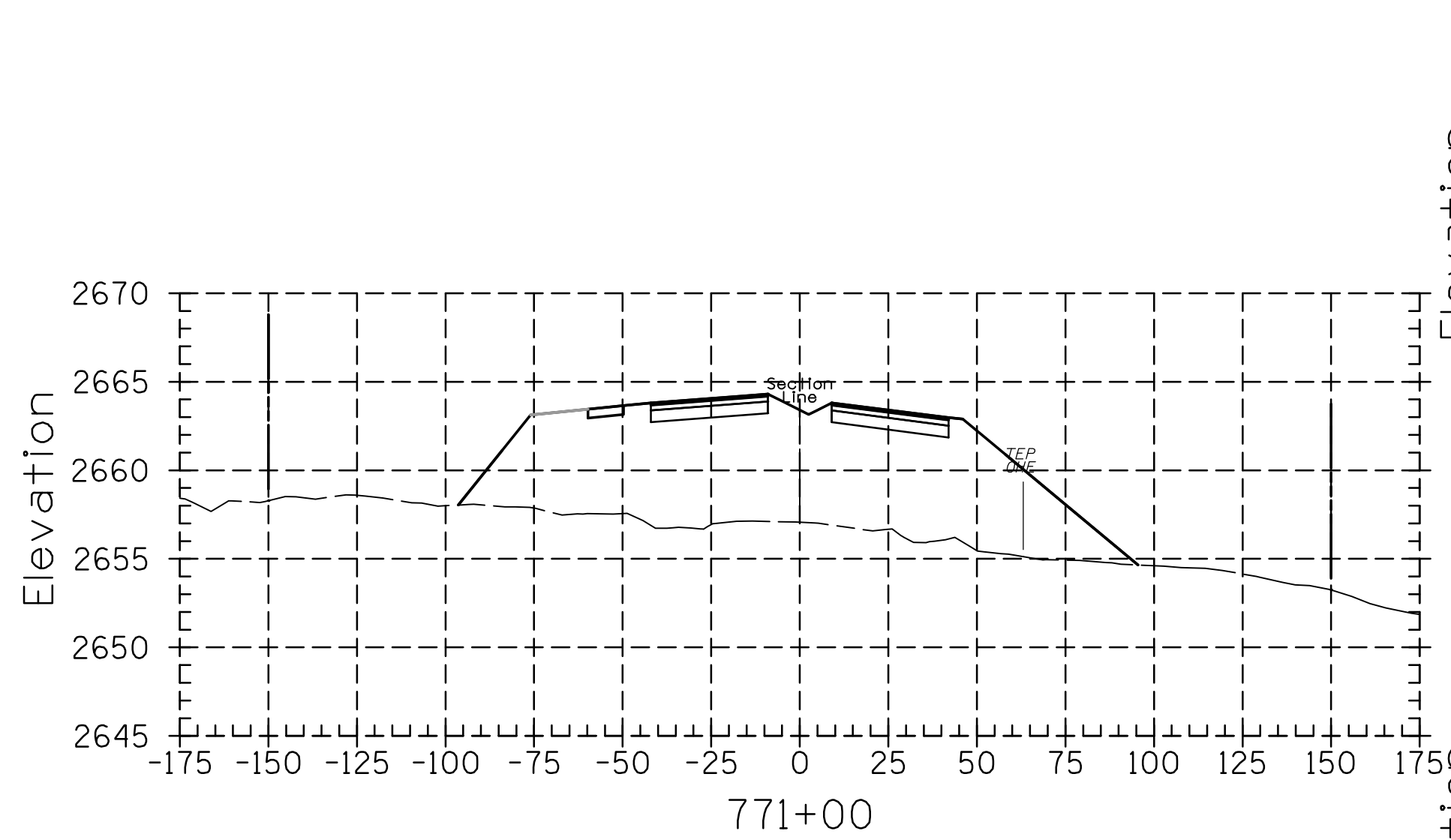
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PROJ. ENG.:	DATE
AA	12/12

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STA 768+87 TO STA 777+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS30 OF XS31

TOWN OF MARANA - PROJECT NO. 2005-061

CROSS SECTIONS FOR
TANGERINE ROAD
 STA 768+87 TO 777+00
 TANGERINE ROAD

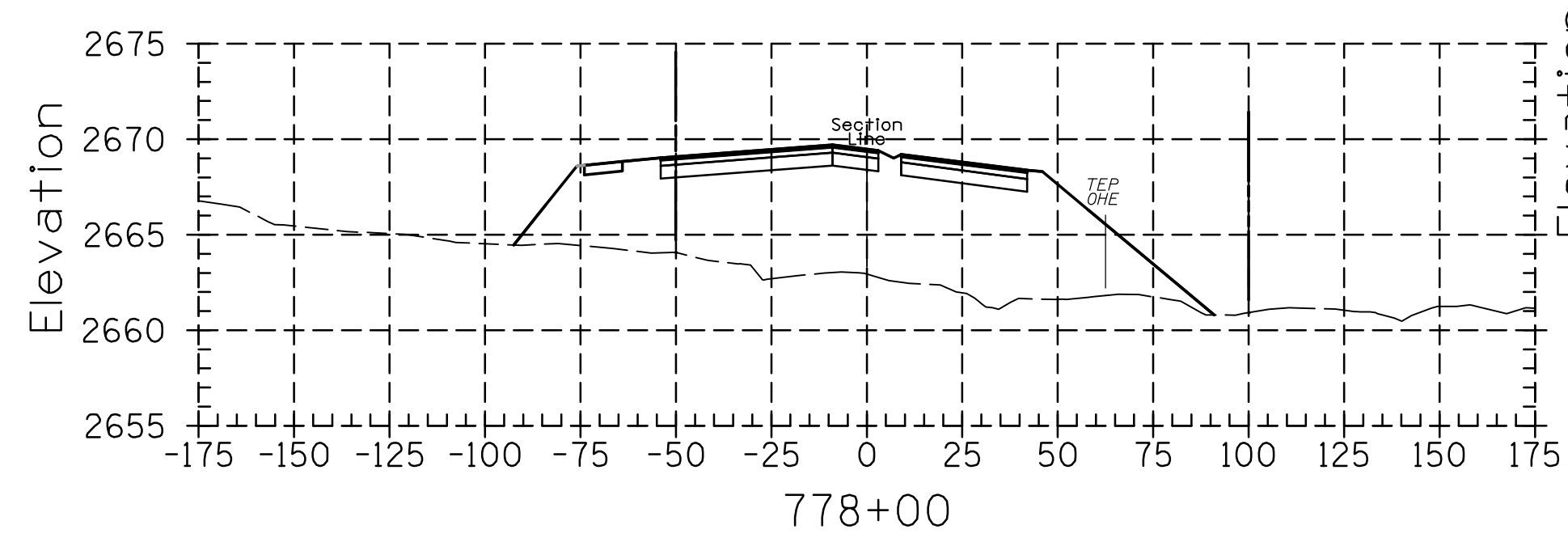
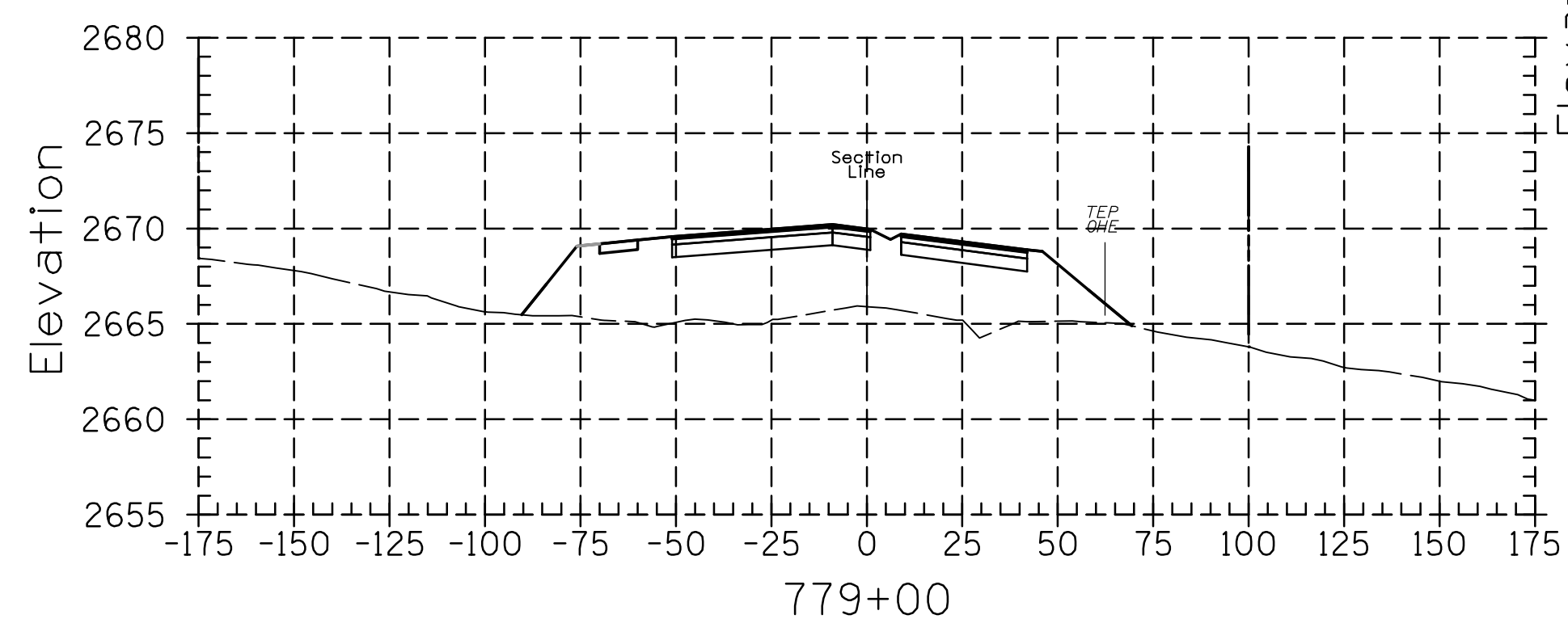
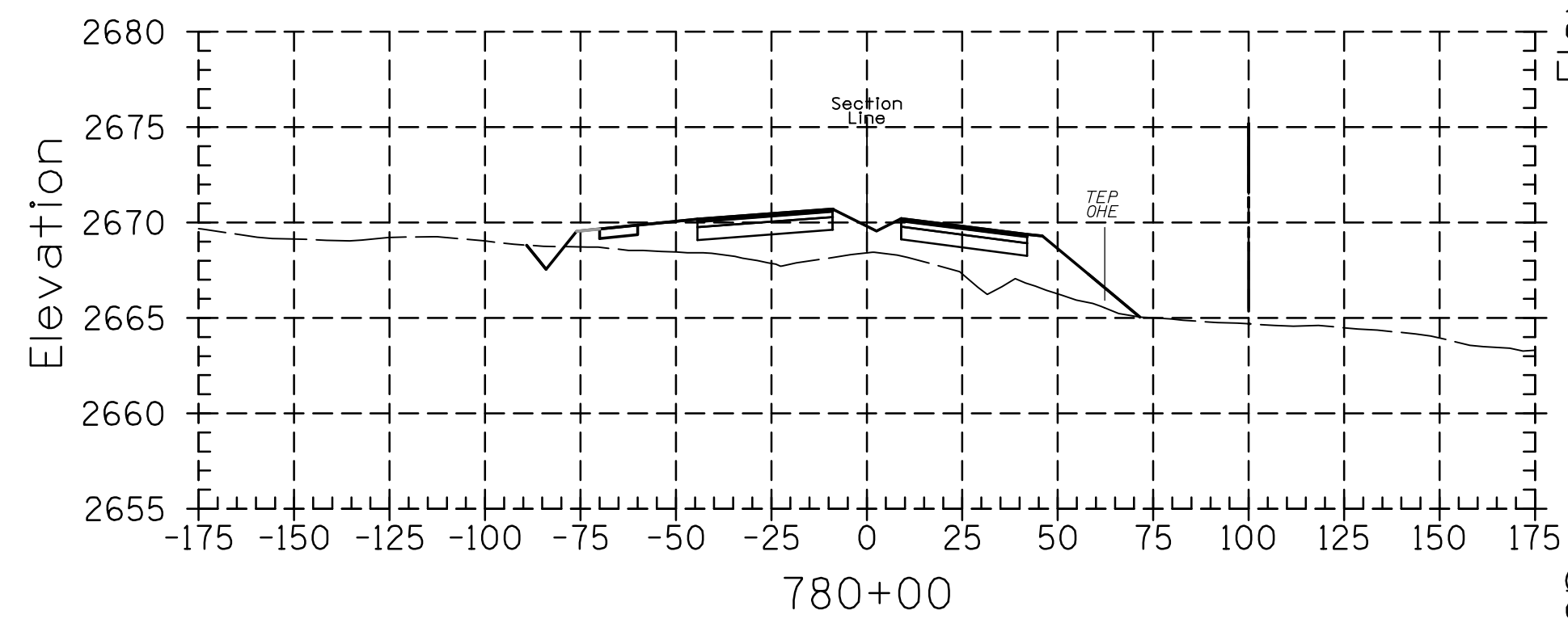
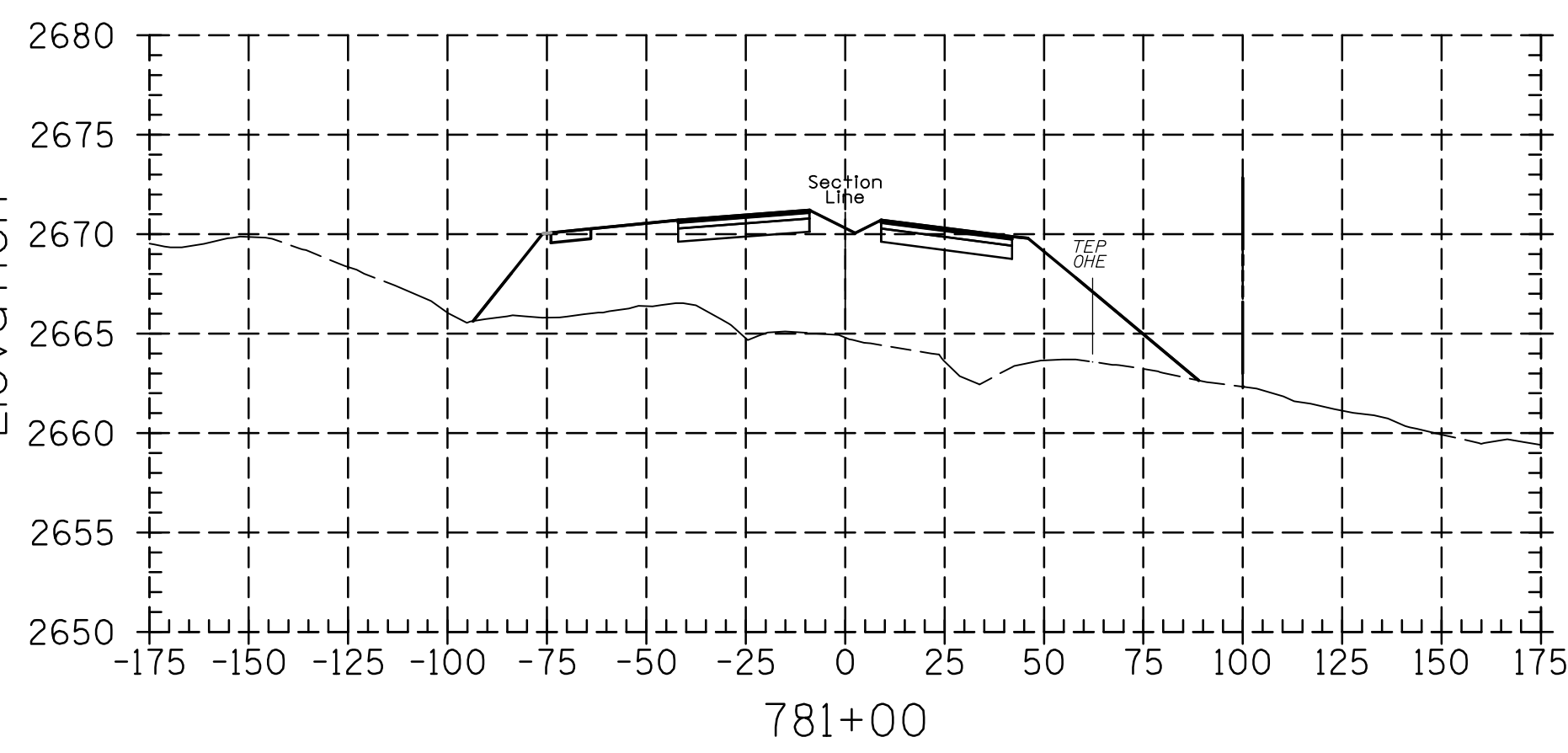
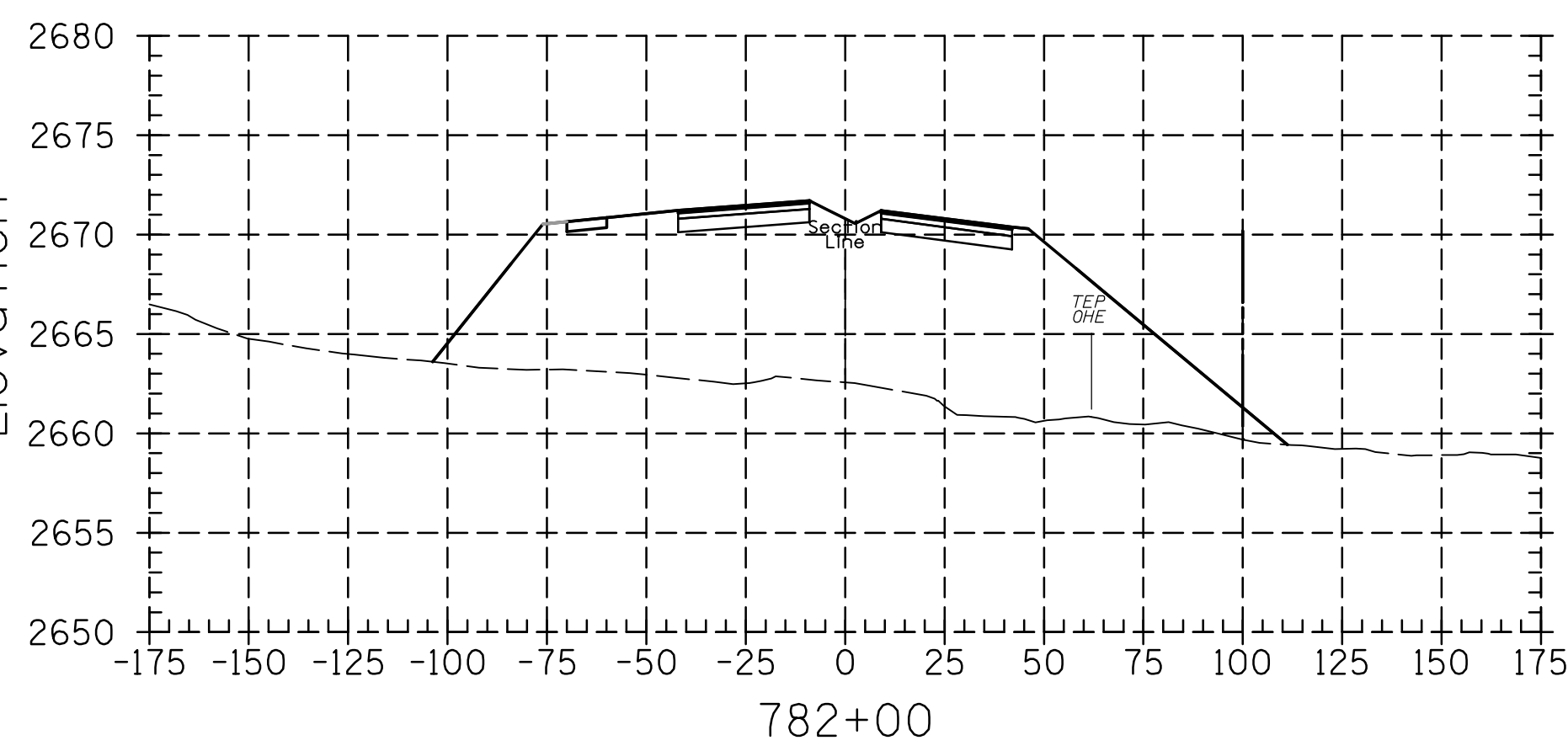
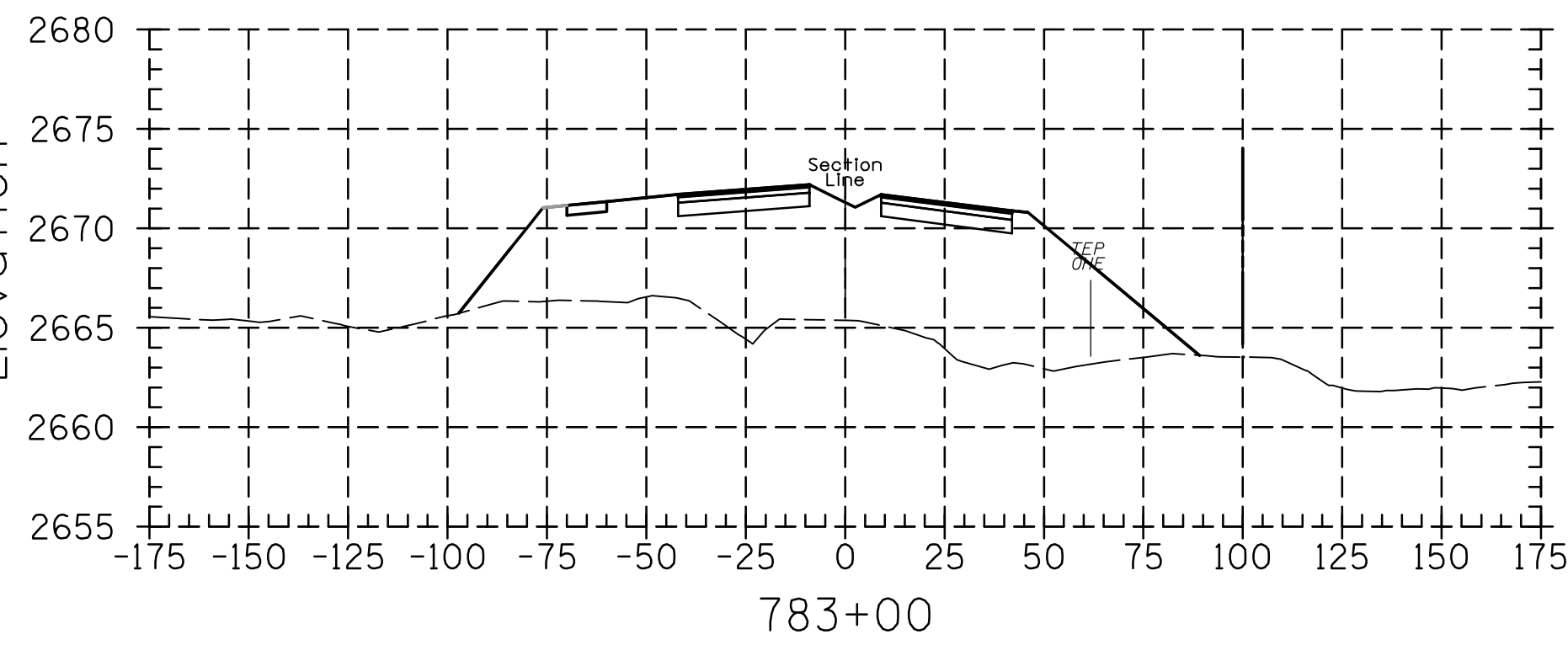
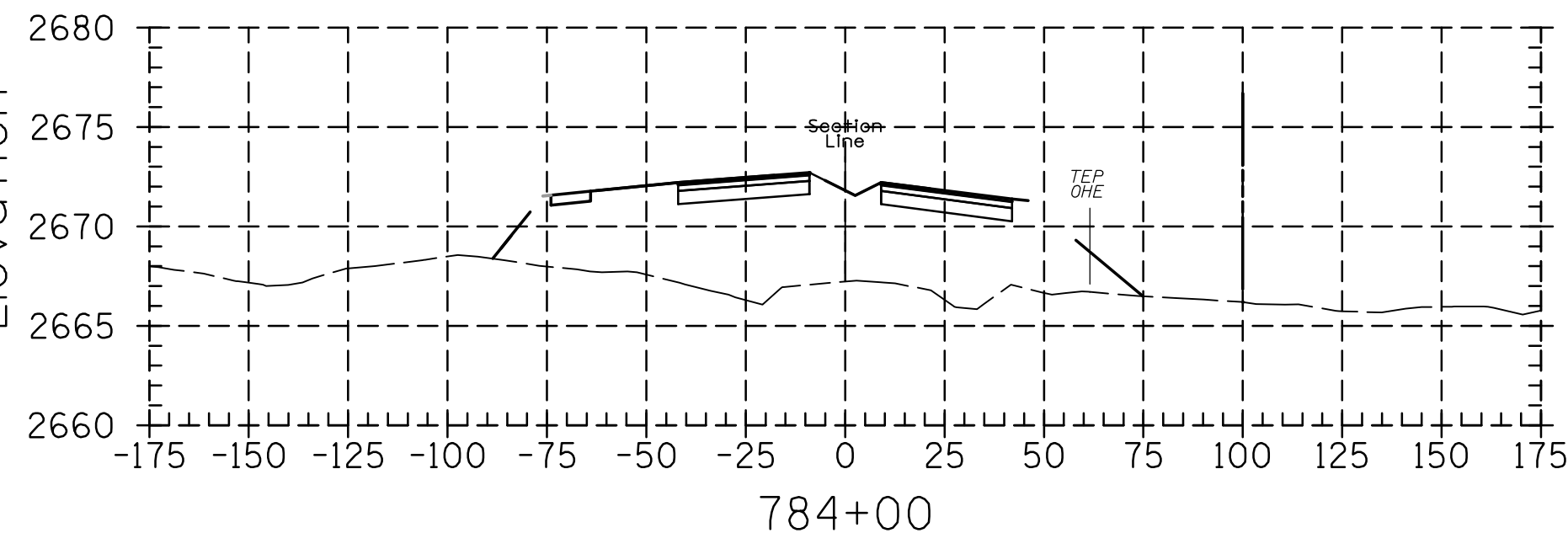
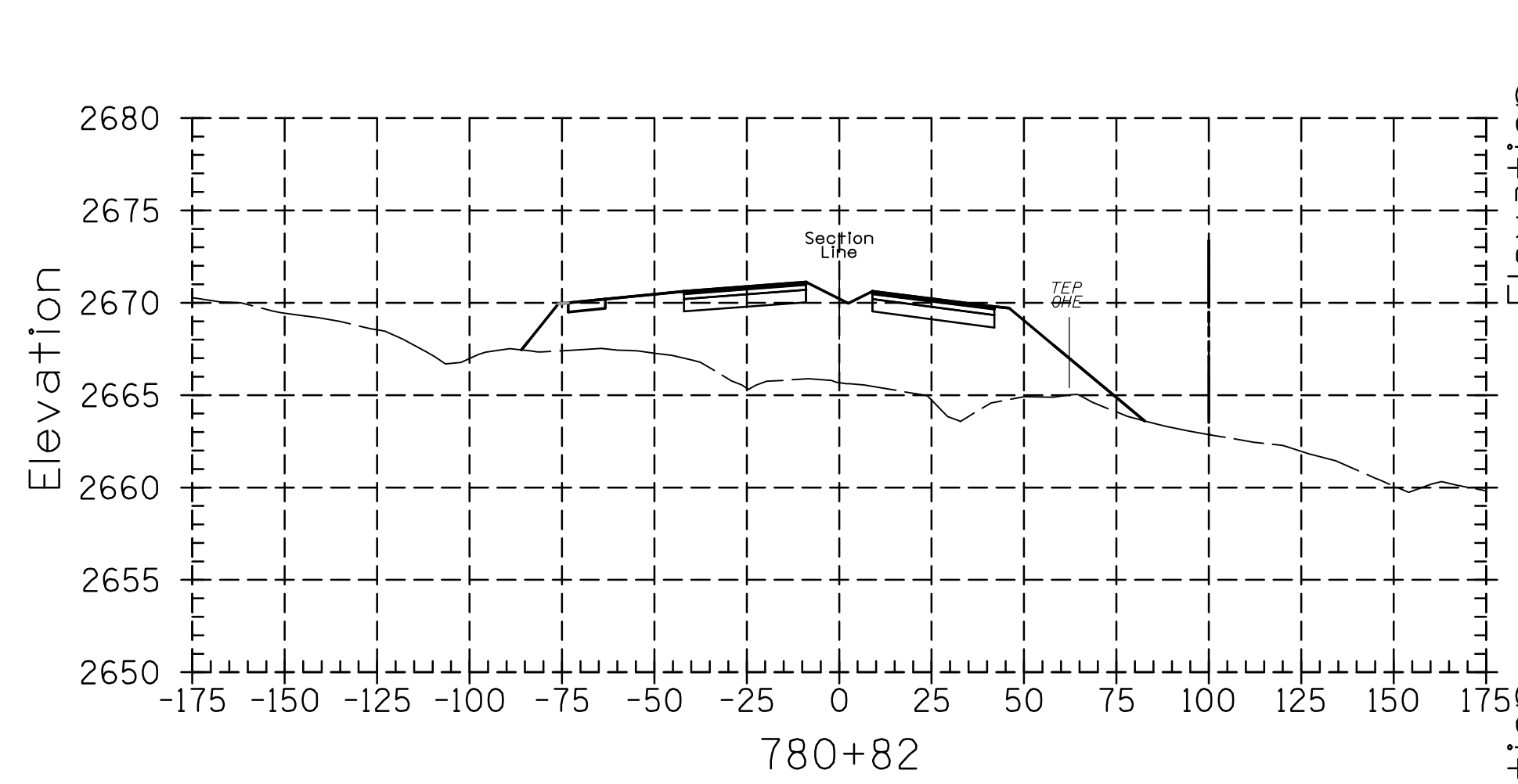
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 333 E. Wetmore Road, Suite 450
 Tucson, AZ 85705
 (520) 292-2300 (520) 292-1280 fax
 www.psomas.com

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NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

DESIGNED:	DATE
CZ	12/12
DRAWN:	DATE
CZ	12/12
CHECKED:	DATE
AA	12/12
PROJ. ENG.:	DATE
AA	12/12

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STA 778+00 TO STA 784+00



SCALES: HORIZ. 1"=40'
 VERT. 1"=8'
 SHEET XS31 OF XS31

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DESIGNED:	CZ	DATE	12/12
DRAWN:	CZ	DATE	12/12
CHECKED:	AA	DATE	12/12
PROJ. ENG.:	AA	DATE	12/12

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