



**US Army Corps
of Engineers** ®
Rock Island District

PUBLIC NOTICE

Applicant: Jones County Secondary Roads Date: January 7, 2022
CEMVR-RD-2021-1671 Expires: February 5, 2022
Section 404

**Joint Public Notice
US Army Corps of Engineers
Iowa Department of Natural Resources**

1. **Applicant:** Jones County Secondary Roads, c/o Mr. Derek Sneak, 19501 Highway 64, Anamosa, Iowa 52205.

2. **Project Location:**

- Landis Road Bridge over the Wapsipinicon River
- Section 20, Township 84 North, Range 3 West
- Jones County, Iowa
- UTM NAD-83 Zone 15
- Lat 42.0706, Long -91.2278.

3. **Project Description and Purpose.**

a. The applicant proposes to construct a new 454', 3-span, 15-degree skew BTE beam bridge crossing of Landis Road over the Wapsipinicon (Wapsi) River southeast of Anamosa, Iowa. The new bridge would be approximately 900 feet downstream of the existing bridge. The existing bridge will be abandoned in place. The project also consists of the placement of approach road embankment fill, revetment stone for bank armoring, and shaping of the stream channel banks to transition to the new structure opening. The wetland delineation report identified one 1.6-acre farmed wetland on east side of the Wapsi. The project is expected to permanently impact 1.41 acres of this farmed wetland with grading and fill. An additional 0.10 acres within the right-of-way may be temporarily disturbed during construction, but the ground surface elevations will remain the same such that continued wetland conditions can exist after construction. The applicant is proposing to purchase wetland credits for compensatory mitigation for permanent wetland impacts.

b. The applicant's stated avoidance and minimization efforts include, selecting the new roadway alignment to avoid existing forested wetland area and avoid removal of the existing historically eligible truss bridge over the Wapsi. The identified wetland within the proposed project limits consists nearly entirely of cropped lands. In order to minimize the impacts to the farmed wetland, a sag vertical curve was developed into the roadway design between the proposed Wapsi and the new roadway tie-in to 95th Street. This sag curve lowered the roadway elevation, thus shrinking the roadway area of need within the identified wetland limits.

c. The applicant's stated purpose and need statement is that the project is necessitated by the condition of the existing 245', 2-span high truss Landis Road bridge. The bridge is load posted and therefore not able to handle full legal loadings. The bridge is narrower than current standards (15' clear width) to accommodate two full lanes and is therefore functionally obsolete. The purpose is to continue to provide for the safe and efficient movement of people and goods as part of the transportation area in the project area by replacing the existing bridge with a new bridge crossing of the Wapsi that meets current Iowa Department of Transportation (DOT) standards for legal loads and clearances.

d. The applicant has applied for a RAISE federally funded grant program under the United States Department of Transportation. Should the grant be awarded the USDOT will become lead for compliance with the National Environmental Policy Act.

4. Agency Review.

a. Department of the Army, Corps of Engineers. The Department of the Army application is being processed under the provisions of Section 404 of the Clean Water Act (33 U.S.C. 1344).

b. State of Iowa. The project plans have been submitted to the Iowa Department of Natural Resources (IDNR) for state certification of the proposed work in accordance with Section 401 of the Clean Water Act. The certification, if issued, will express the Department's opinion that the proposed activity will comply with Iowa's water quality standards (Chapter 61 IAC). The applicant has also applied for authorization of work in the floodplain pursuant to Chapter 455B of the Iowa Code and other applicable state permits. Written comments concerning possible impacts to waters of Iowa should be addressed to: Iowa Department of Natural Resources, 502 East 9th Street, Des Moines, Iowa 50319. A copy of the comments should be provided to the Corps of Engineers office (see paragraph 11. of this public notice for address).

5. **Historical/Archaeological.** For purposes of Section 106 of the National Historic Preservation Act [see 36 CFR 800. 3(a) and 800.16(y)], the Federal "undertaking" which has the potential to cause effects on historic properties is limited to the issuance of a Department of the Army permit for project activities within the Permit Area. Based on the fifty-foot buffer the District recommends that the proposed project will have no adverse effect to site 13JN474. We are coordinating our determination of "**no adverse effect**" with the Iowa State Historic Preservation Office via letter dated December 9, 2021.

6. Endangered Species.

a. District staff has performed a preliminary review of this application for the potential impact on threatened or endangered species pursuant to Section 7 of the Endangered Species Act as amended. The following all have potential habitat in Jones County, Iowa.

- Northern Long-eared Bat (*Myotis septentrionalis*),
- Higgins Eye Pearlymussel (*Lampsilis higginsii*),
- Monarch Butterfly (*Danaus plexippus*),
- Prairie Bush-clover (*Lespedeza leptostachya*),
- Western Prairie Fringed Orchid (*Platanthera praeclara*),
- Eastern Prairie Fringed Orchid (*Platanthera leucophaea*)

b. No critical habitats are listed within the project area. The project area does not contain suitable habitat for the monarch butterfly, prairie bush-clover, or the western and eastern prairie fringed orchids. According to the Iowa Department of Natural Resources' Natural Areas Inventory website there are no known occurrences of the Higgins Eye pearl mussel within the vicinity of this project within the Wapsi; with are no known occurrences of mussel species occurring within 1 river mile upstream or downstream of the project area. In addition, the applicant has stated that a 2017 mussel survey was completed for another county project approximately 2 miles upstream, which located dead specimens but no living mussels. Based on this lack of suitable habitat and the lack of mussels upstream, or known species occurring within or near the project area, our preliminary determination is that this project will have “**no effect**” to critical habitat or the federally listed species stated above.

c. Due to the mature trees in the area and the potential threatened/endangered bats, trees shall be removed in compliance with Article 2101.01 of the Iowa DOT Standard Specifications for Highway and Bridge Construction. This includes a tree clearing restriction date where trees will be cleared between October 1 – March 31. With the inclusion of a special condition to restrict tree clearing our preliminary determination is that that the project is “**not likely to adversely affect**” to the Northern long-eared bat. We are coordinating this application with the Fish and Wildlife Services through this public notice. Accordingly, our preliminary determination is subject to change should further information become available.

7. **Dredge/Fill Material Guidelines.** The evaluation of the impact of the proposed activity on the public interest will also include application of the guidelines promulgated by the Administrator of the United States Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

8. **Public Interest Review.** The decision whether to issue the Corps permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

9. **Who Should Reply.** The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. These statements should be submitted on or before the expiration date specified at the top of page 1. These statements should bear upon the adequacy of plans and suitability of locations and should, if appropriate, suggest any changes considered desirable.

10. **Public Hearing Requests.** Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided.

11. **Reply to the Corps.** Comments concerning the Corps permit should be addressed to the US Army Corps of Engineers, Rock Island District, Attn: RD (K. Brown), Clock Tower Building - Post Office Box 2004, Rock Island, Illinois 61204-2004. **Mrs. Kirsten Brown** may be contacted for additional information at (309) 794-5369 or email at Kirsten.L.Brown@usace.army.mil.



Attach
Plan

Mrs. Kirsten L. Brown
Project Manager, Western Branch
Regulatory Division

Construction Plans – 22 pages

REQUEST TO POSTMASTERS: Please post this notice conspicuously and continuously until the expiration date specified at the top of page 1.

NOTICE TO EDITORS: This notice is provided as background information for your use in formatting news stories. This notice is not a contract for classified display advertising.



Highway Division
 PLANS OF PROPOSED IMPROVEMENT ON THE
FARM-TO-MARKET SYSTEM
JONES COUNTY

PROJECT NO. ILL-CO53(92)--92-53
BRIDGE CONSTRUCTION - PPCB
 On LANDIS RD, Over Wapsipinicon River

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

MILEAGE SUMMARY

Div.	Description	Lin. Ft.	Miles
	Sta. 505+50.00 to Sta. 535+50.00	3,000.00	0.568
	Deduct Bridge at Sta. 519+60.00	454.00	0.086
Total Net Length of Project (Grading)		2,546.00	0.482

Revisions

Total Sheets

XX
 Project Number
 ILL-CO53(92)--92-53

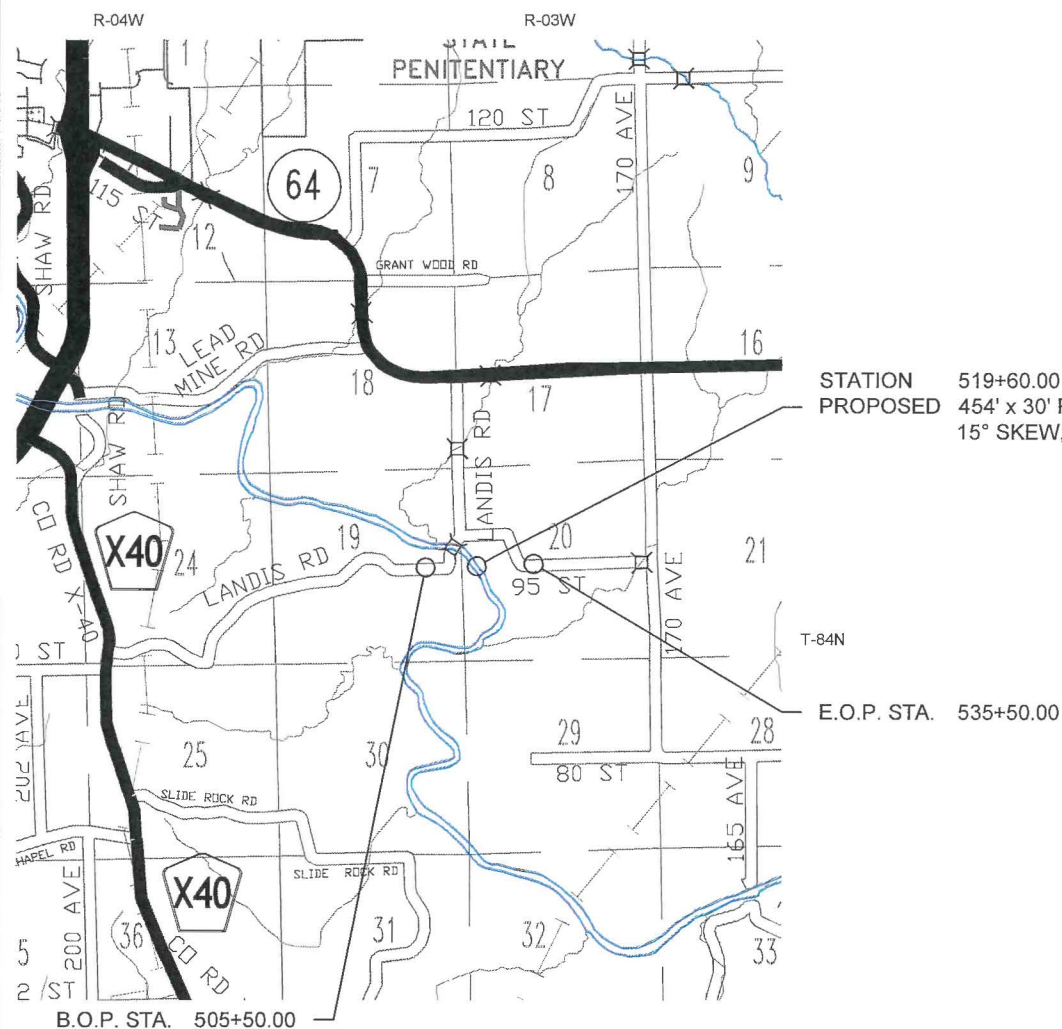
INDEX OF SHEETS

Sheet Number	Description
A.01	Title Sheet
B.01 : B.02	Typical Cross Sections and Details Sheets
C.01	Estimated Project Quantities Tabulation
C.02	Estimate Reference Information Tabulation
C.02	Index of Tabulations
C.03 : C.04	Pollution Prevention Plan
C.04	Standard Road Plans Tabulation
C.04 : C.07	Supplemental Tabulations Sheets
D.01 : D.06	Mainline Plan & Profile Sheets
E.01 : E.03	Side Road and Entrance Plan & Profile Sheets
H.01 : H.04	Right-of-Way Sheets
M.01 : M.02	Culvert Situation Plan Sheets
J.01	Traffic Control Plan Sheet
T.01	Tabulation of Earthwork Sheet
V.01 : V.XX	Bridge Plan Sheets
W.01 : W.0X	Mainline Cross Section Sheets
X.01	Side Road Cross Section Sheet

LETTING DATE: 10/18/2022

PROJECT NO. ILL-CO53(92)--92-53

JONES COUNTY



STATION PROPOSED 519+60.00
 454' x 30' PPCB BRIDGE
 15° SKEW, RT. AHEAD

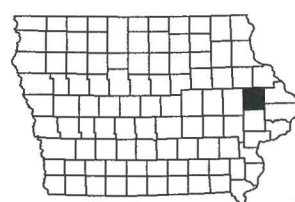
E.O.P. STA. 535+50.00

UTILITY CONTACTS

Facility	Company (Contact Person)	Phone Number
Power (Overhead)	Maquoketa Valley REC (Nik Schulte)	(319) 462-3541
Telephone (Buried)	CenturyLink (Mona Magness)	(515) 336-6377

DESIGN DATA RURAL

2017 AADT	70	VPD



LOCATION MAP SCALE



Approved by the Jones County Board of Supervisors

Signature	Date



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

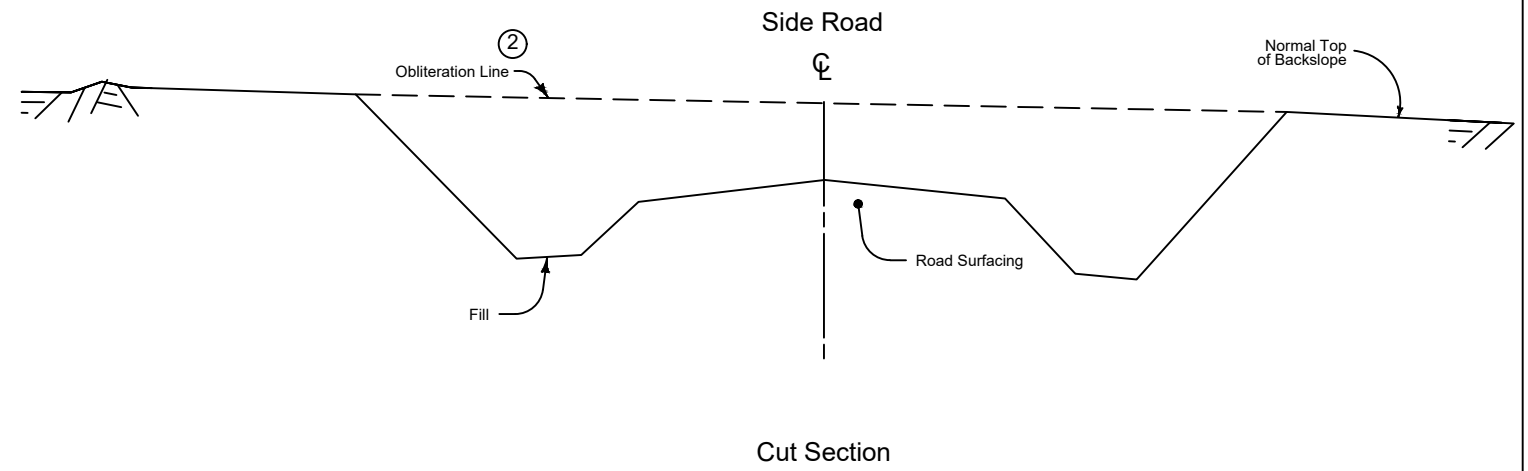
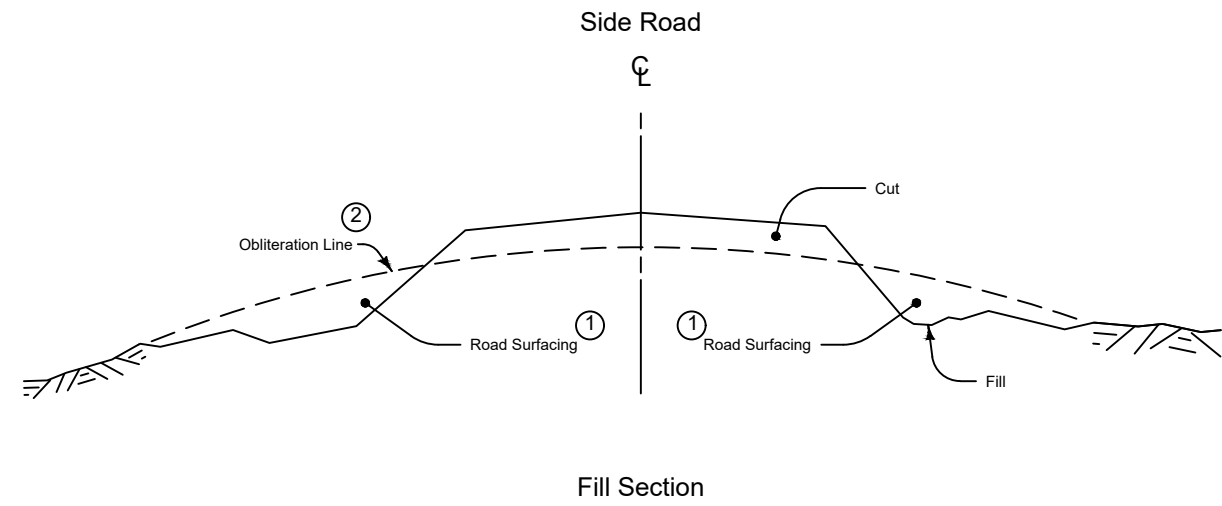
Derek Snead 11/18/2021
 (signature) (date)

Derek G. Snead, P.E.

License number 20862

My license renewal date is December 31, 2021.

Pages or sheets covered by this seal:
 A.01, B.01, B.02, D.01-D.06, E.01-E.03, H.01-H.04, M.01, M.02



- ① Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.
- ② The upper 1' to be suitable for vegetation (grass or crops).

TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

SURVEY SYMBOLS

	ANC	Guy Anchor
	APN	Culvert Apron
	BNK	Stream Bank
	DU	Centerline Draw or Stream (Up)
	EL	Underground Electric Line
	FO	Underground Fiber Optic
	FW	Wire Fence
	GL	Underground Gas Line
	GDL	Guard Rail Steel
	INB	Storm Sewer Beehive Intake
	LP	L.P. Tank
	LUM	Luminaire
	OHE	Overhead Electric Line
	PP	Power Pole
	RET	Retaining Walls
	SEP	Septic Tank
	SHR	Shrub
	SI	Sign
	STP	Stump
	TC	Underground Telephone Line
	TDC	Tree Deciduous
	TEV	Evergreen Tree
	TLN	Edge of Tree Line
	TIL	Tile Line
	TO	Tile Outlet
	TP	Telephone Pedestal
	VLV	Valve (Water or Gas)
	WEL	Well
	WL	Underground Water Line

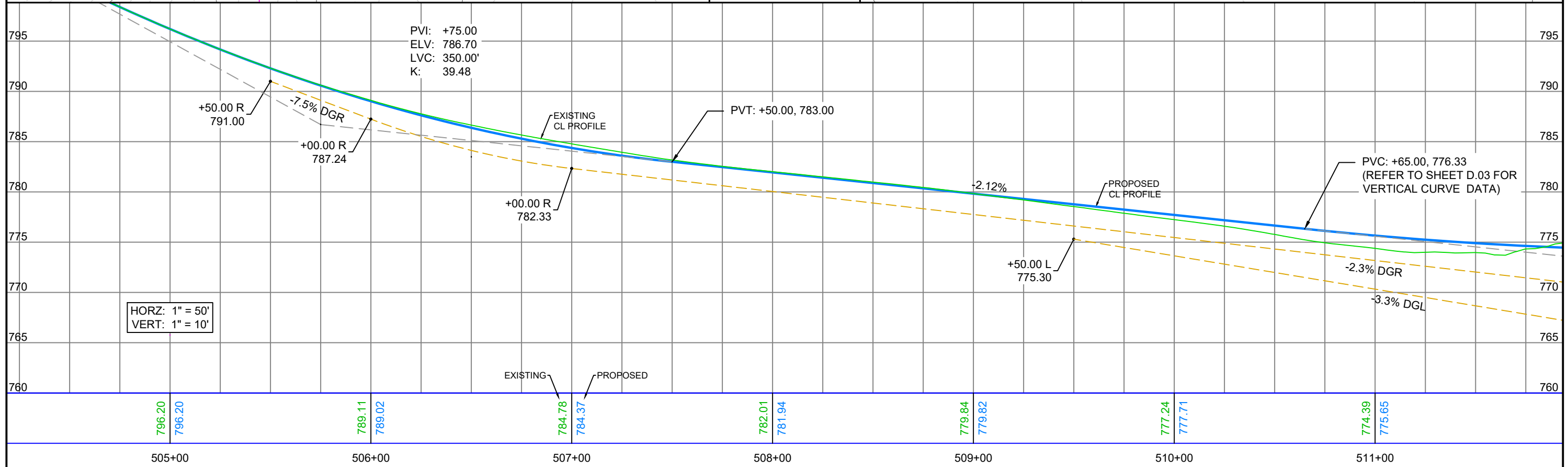
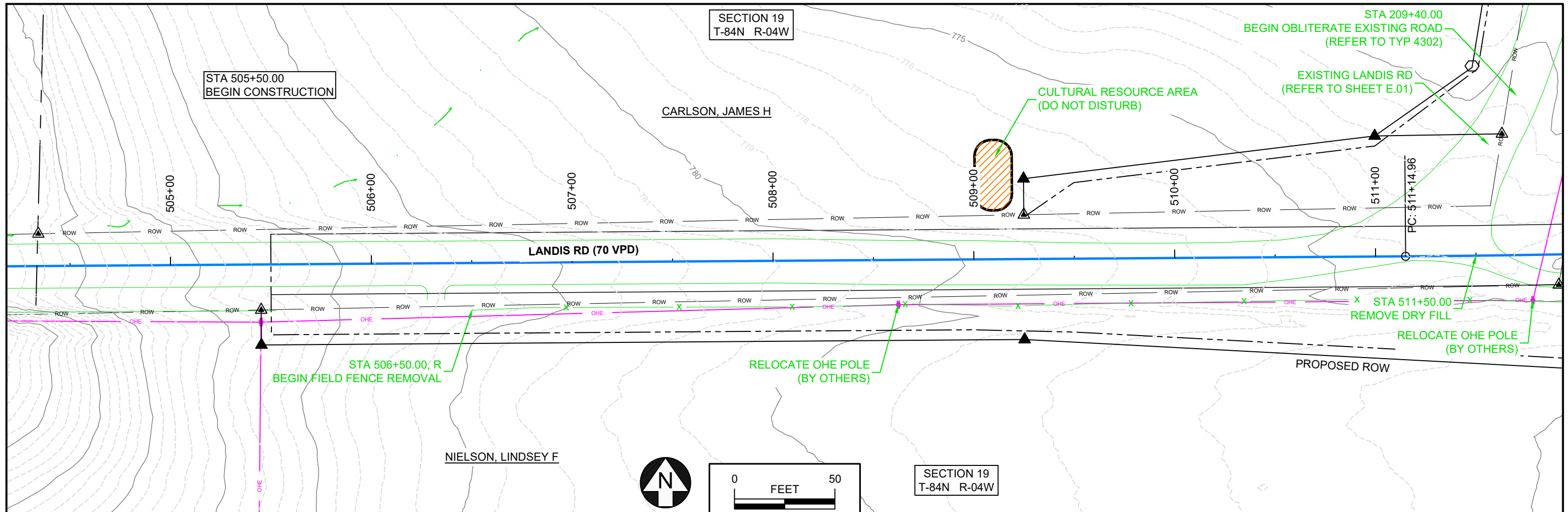
RIGHT-OF-WAY LEGEND

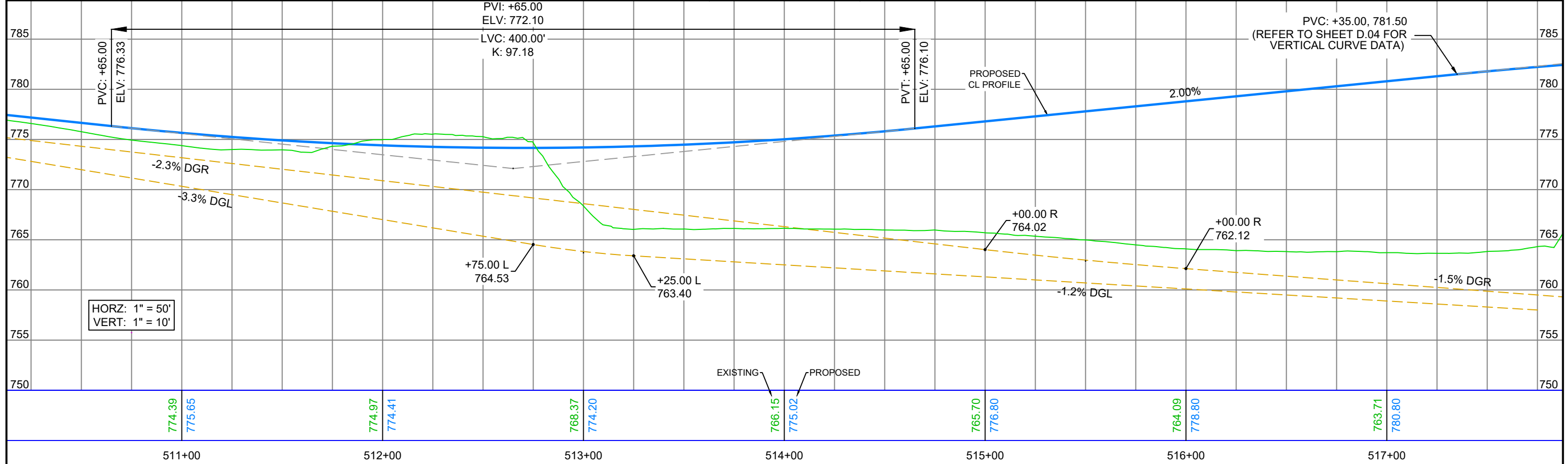
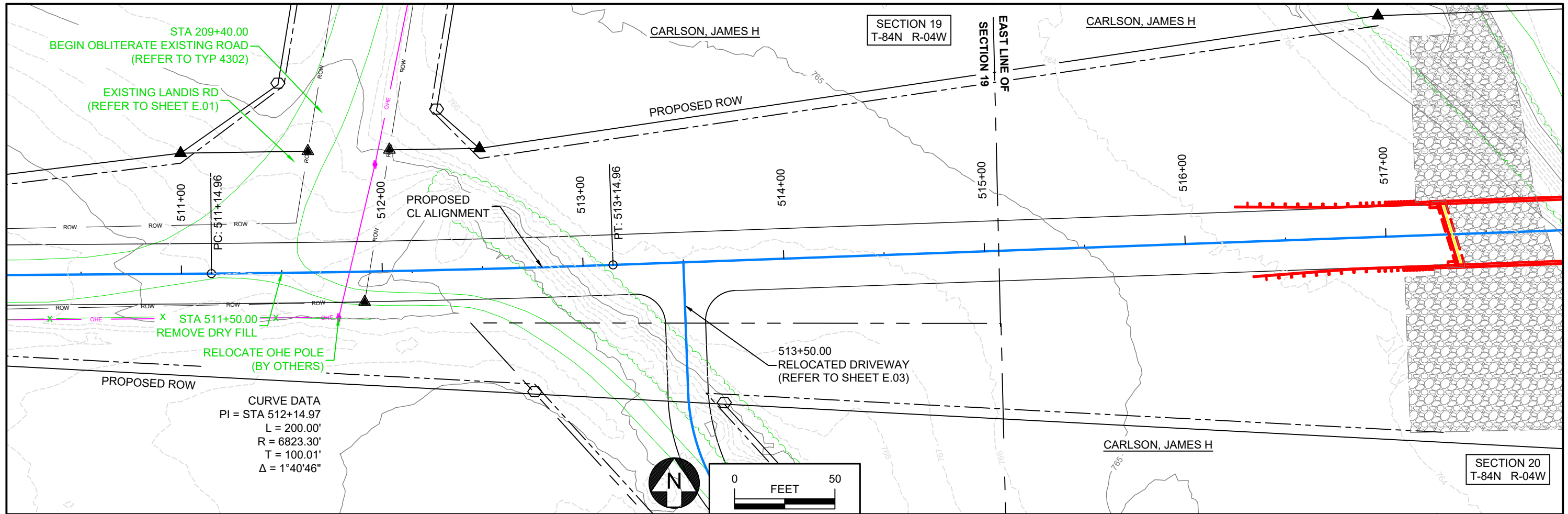
	— ROW —	Existing Right-of-Way Line
		Proposed Right-of-Way Line
		Existing Right-of-Way Marker
		Existing and Proposed Right-of-Way Marker
		Easement (Temporary)
		Property Line (Different Owners)
		Property Line (Common Owners)
		Proposed New Right-of-Way Shading
		Proposed Temporary Easement Shading

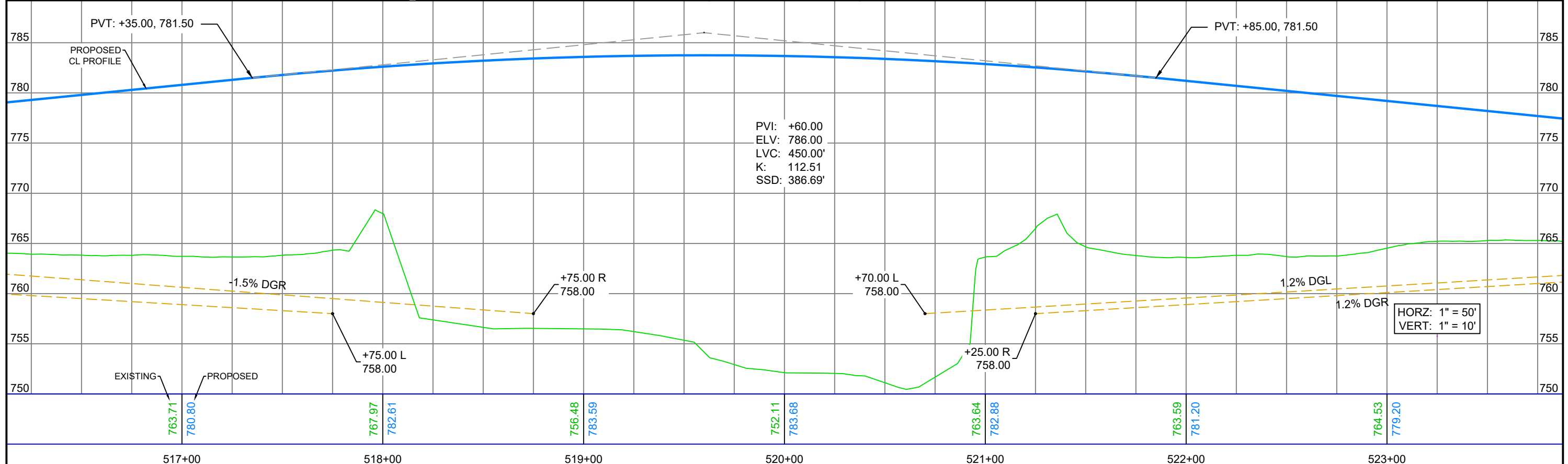
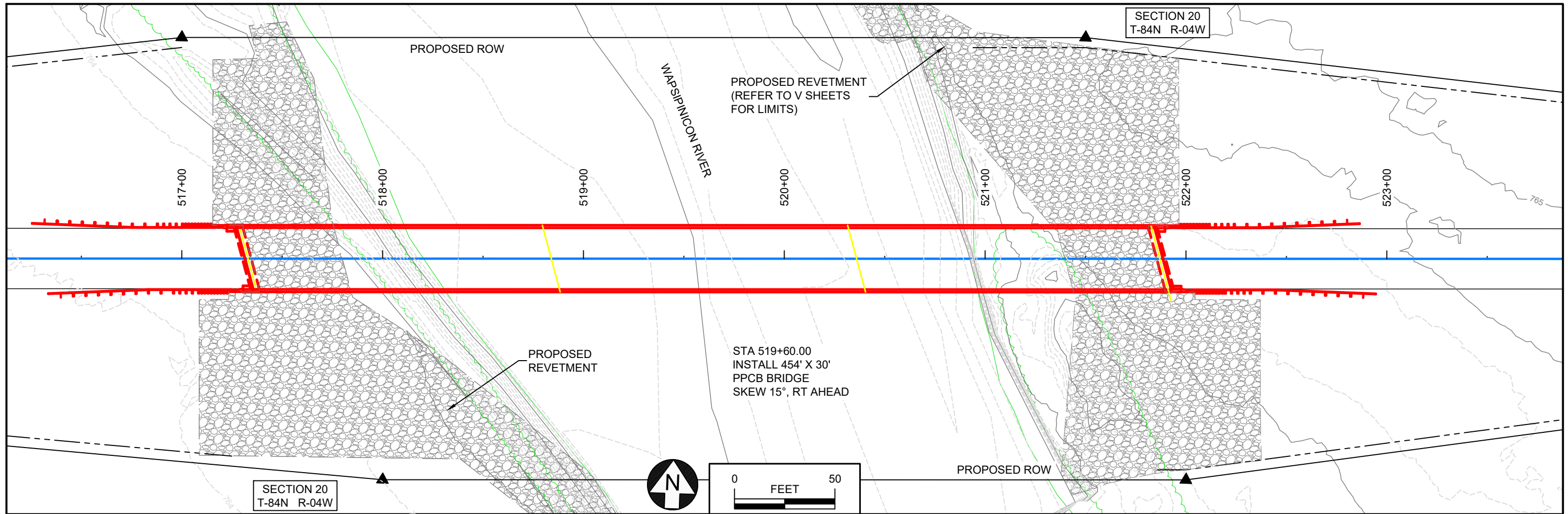
DESIGN LEGEND

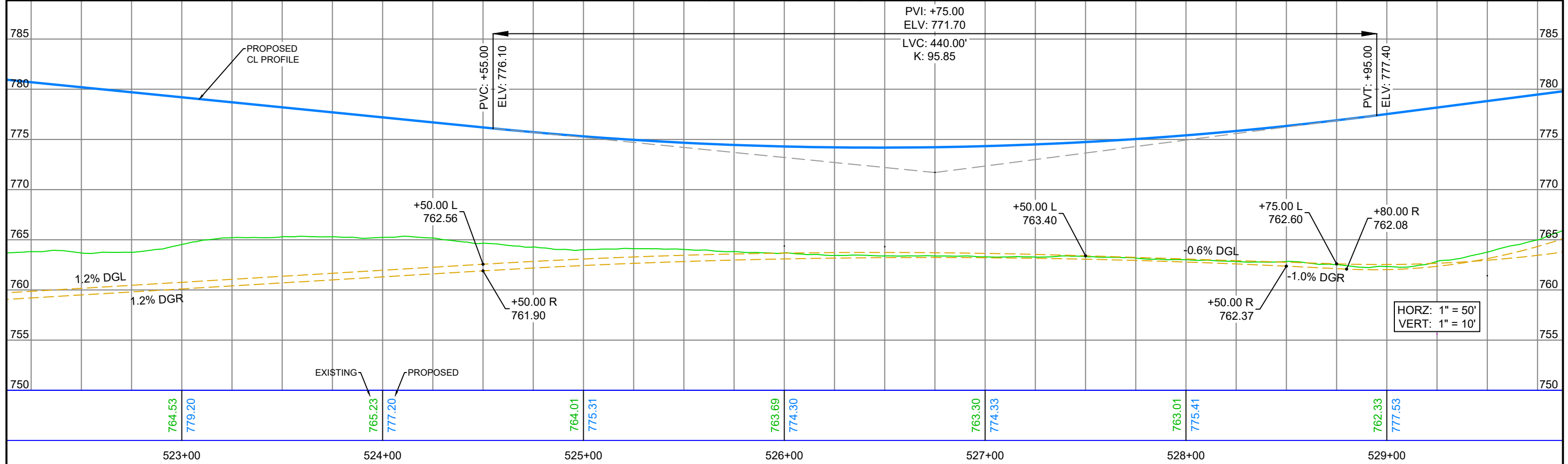
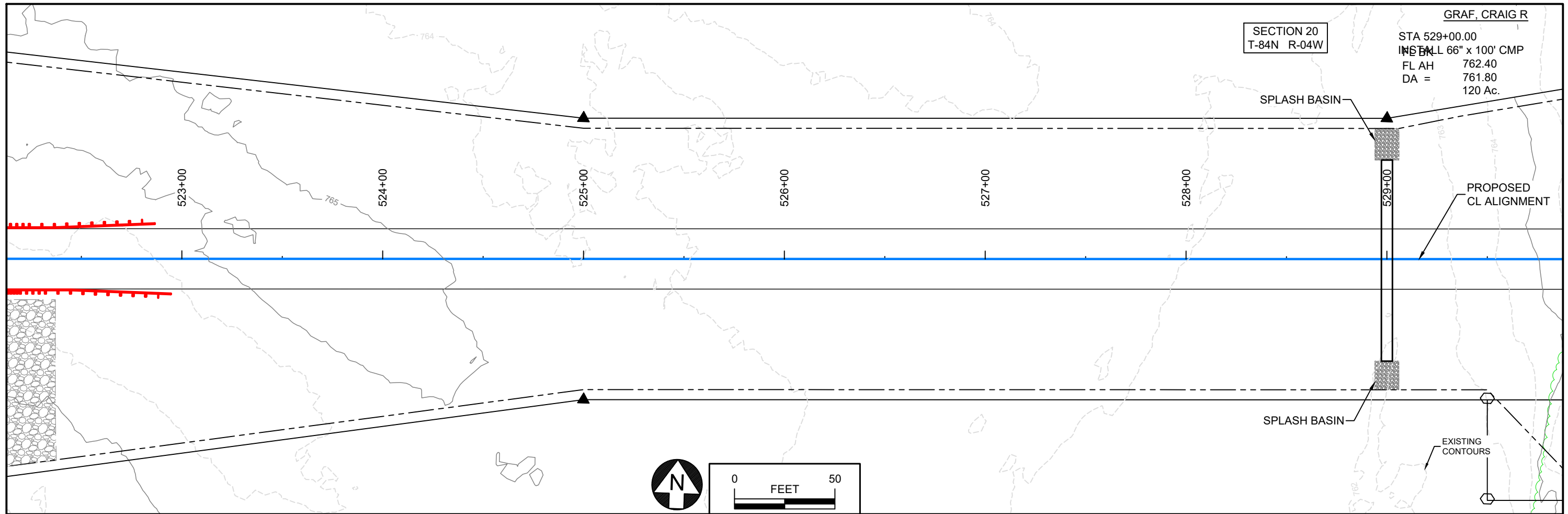
		Clearing & Grubbing Area
		Ground Line Intercept
		Saw Cut
		Subdrain
		Rock Erosion Control
		Intake
		Removal of Existing Pavement or Driveway
		Proposed Pavement Shading
		Proposed Curb and Gutter Shading
		Proposed Ditch Grades, Right and Left
		Proposed W-Beam Fence
		Proposed Field Fence

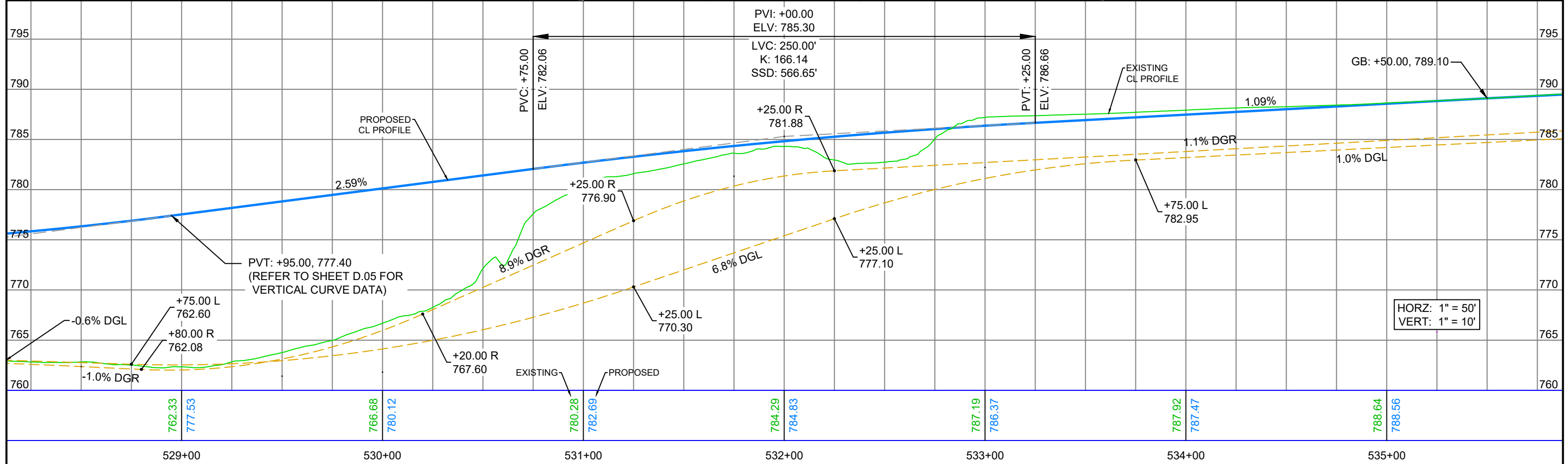
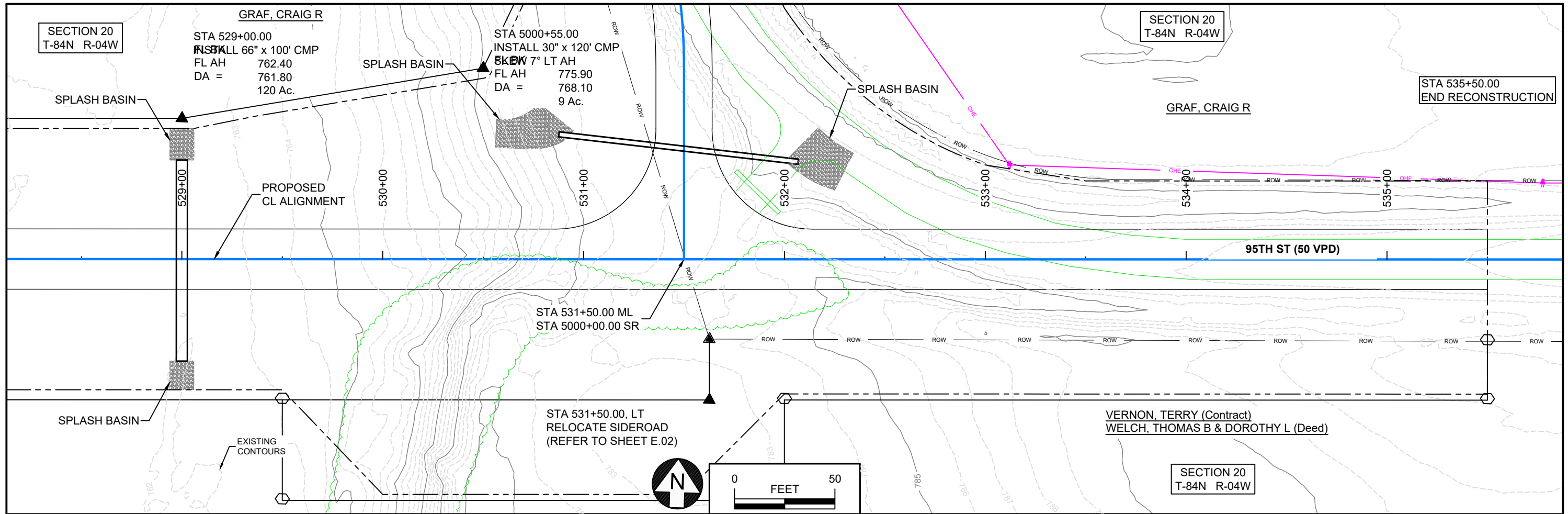
LEGEND AND SYMBOL
 INFORMATION SHEET
 (COVERS SHEET SERIES D, H, & U)

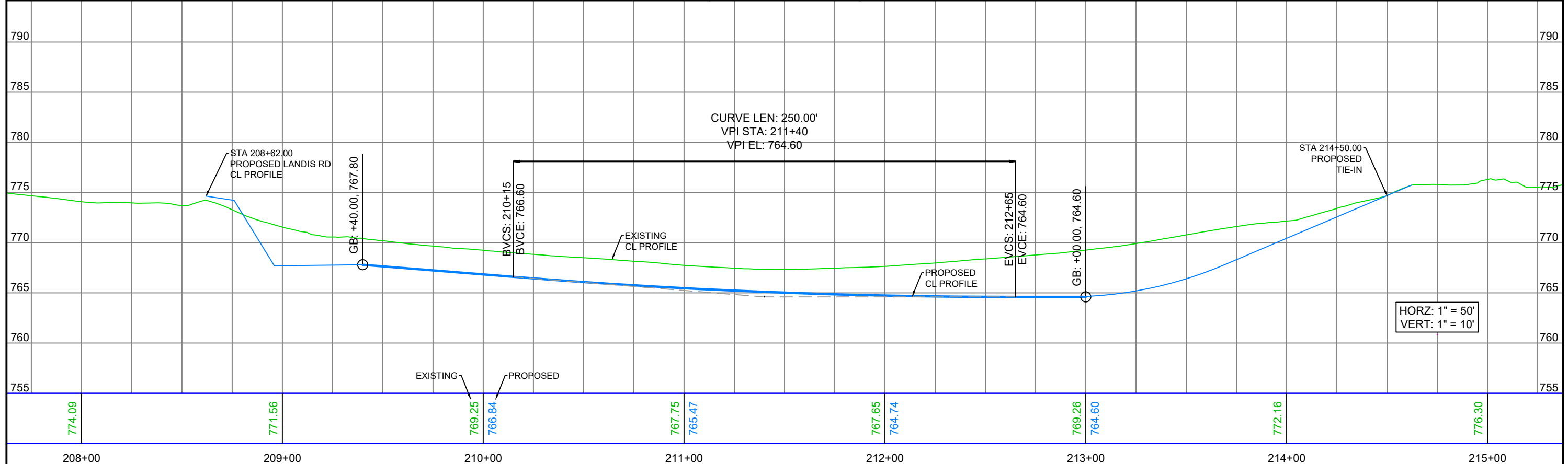
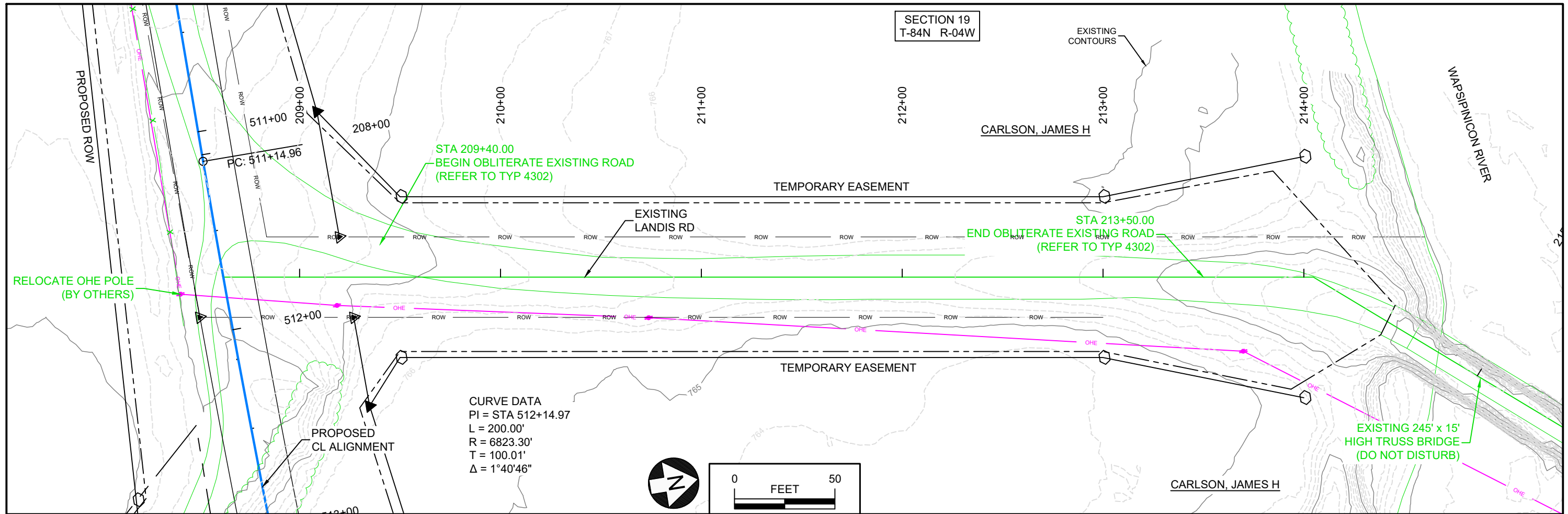


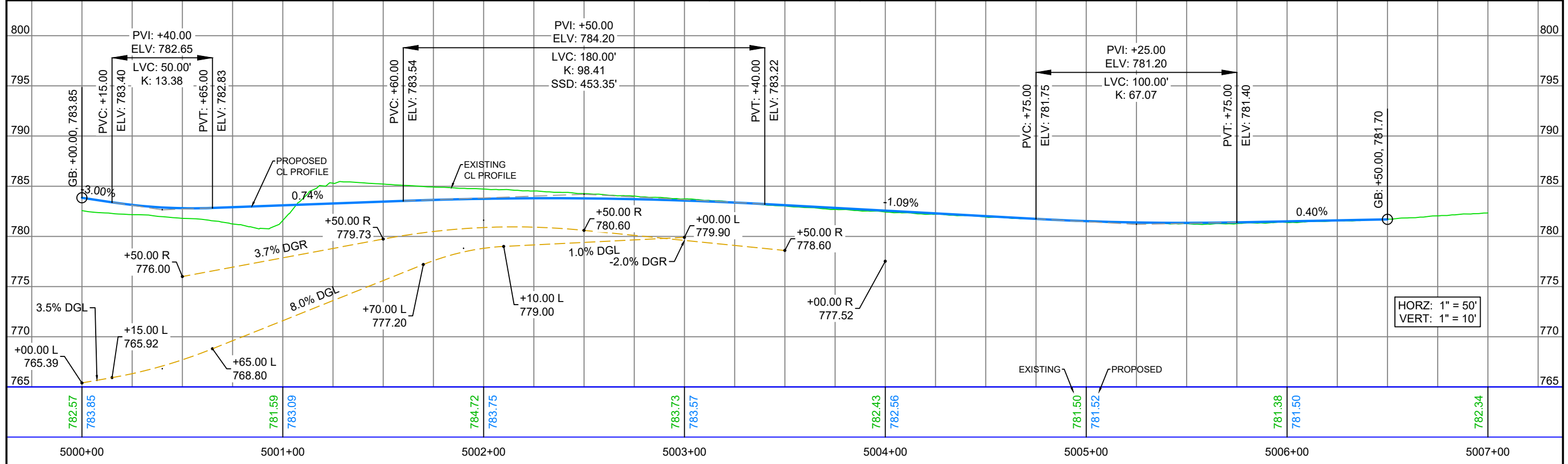
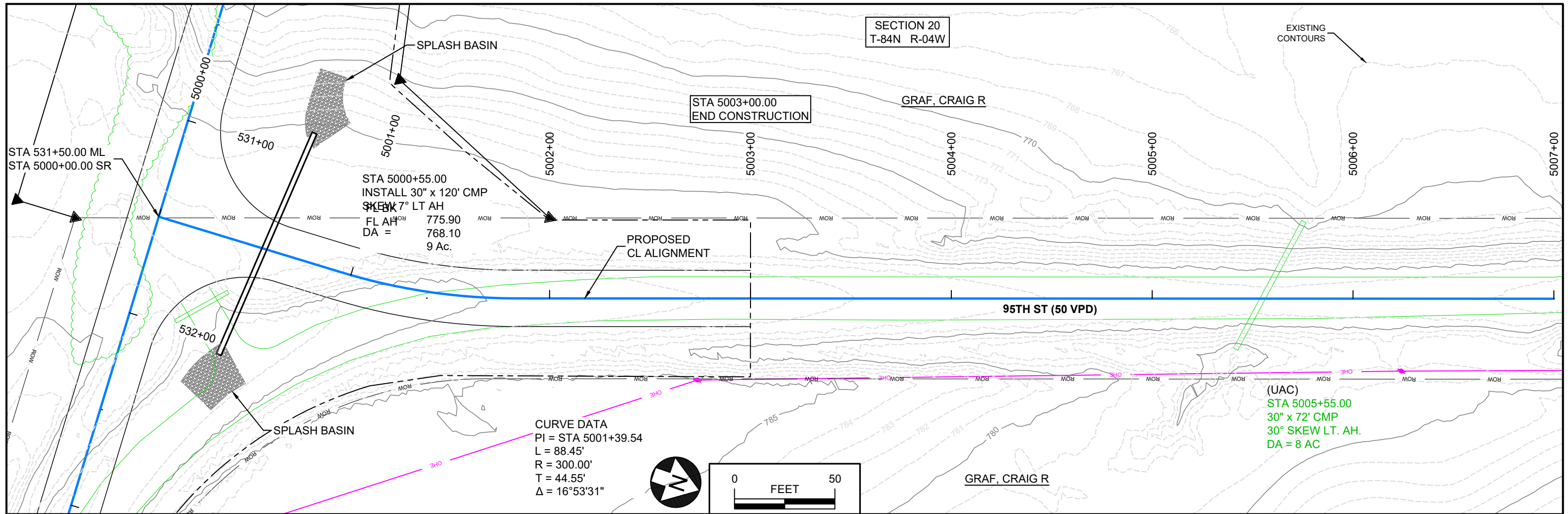


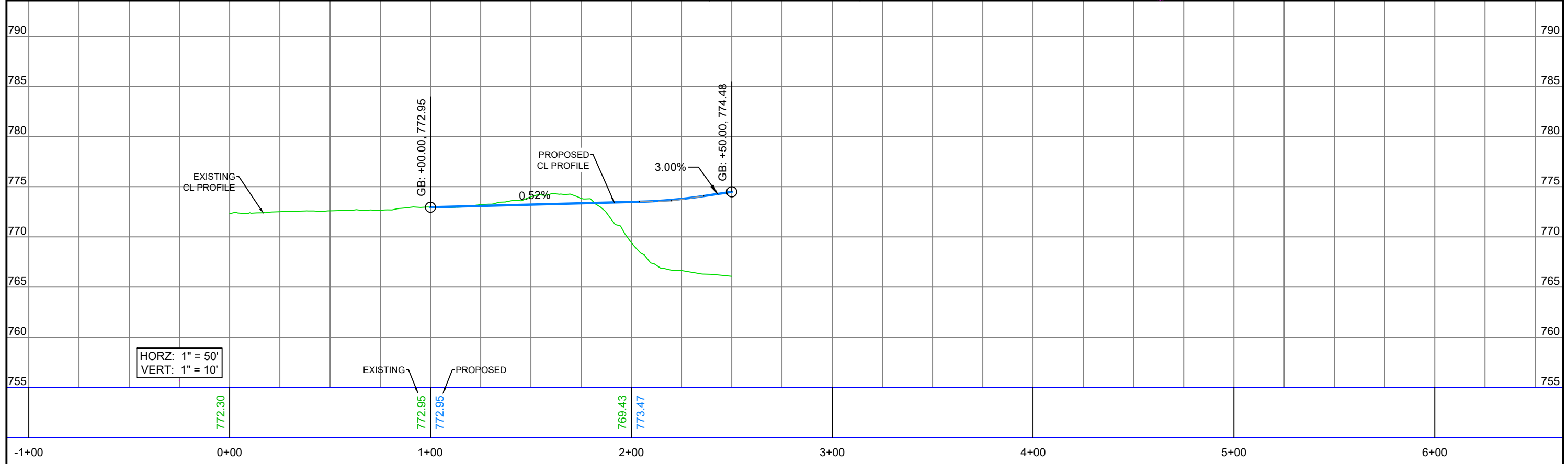
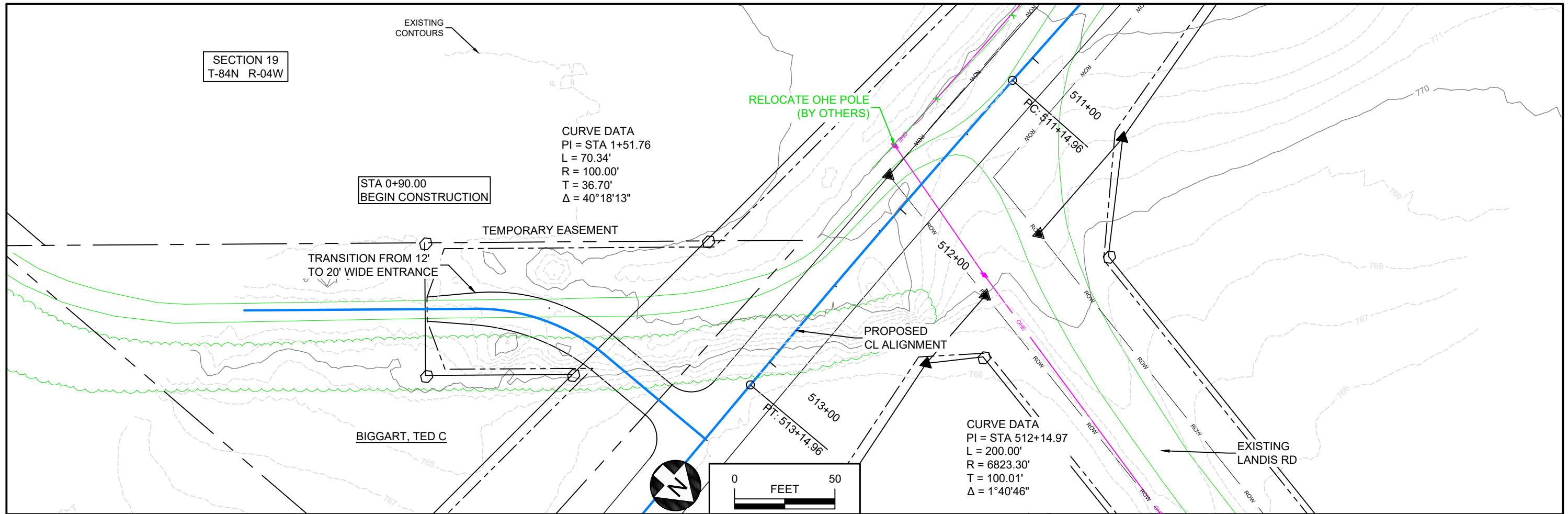


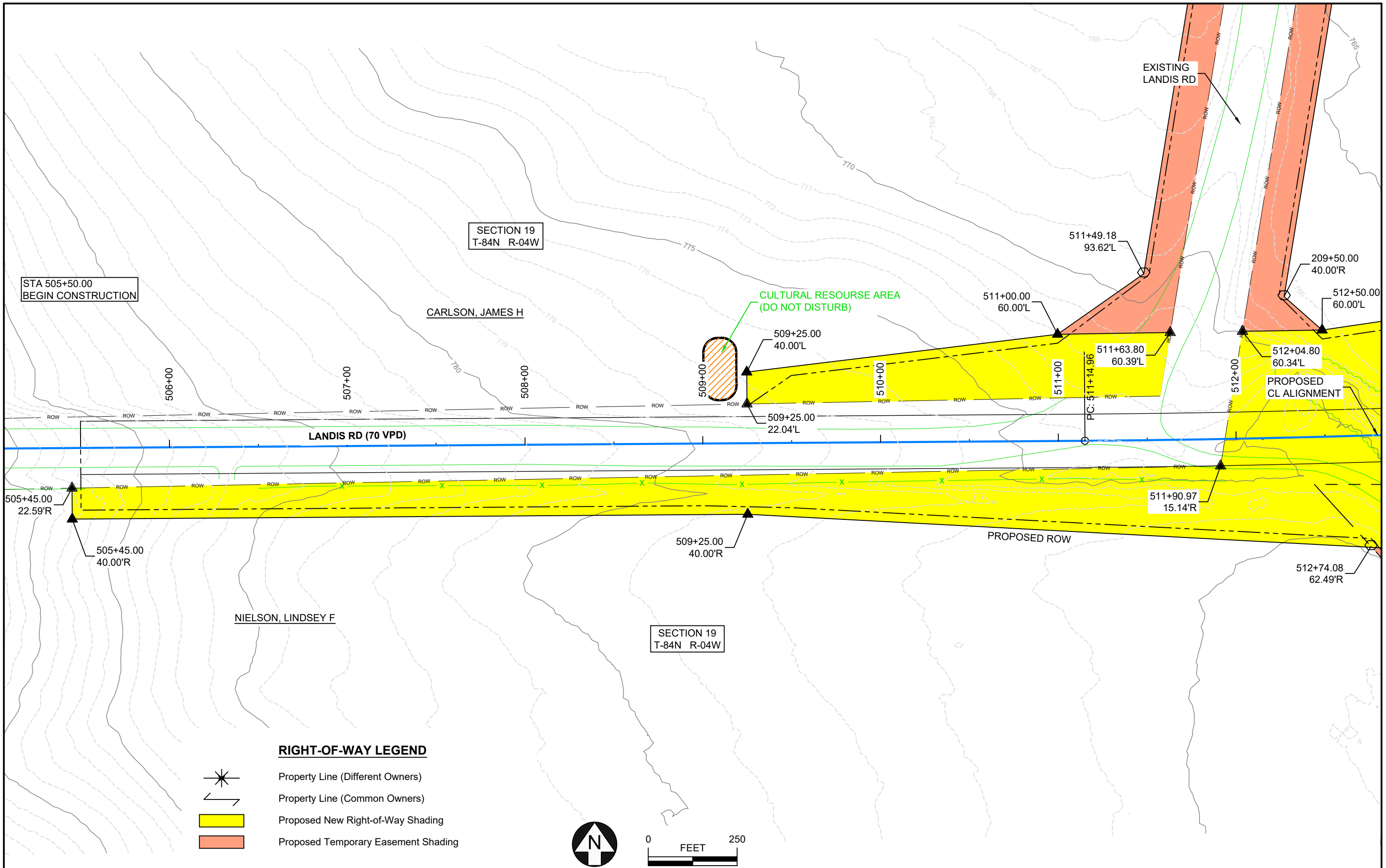





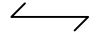




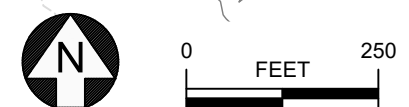


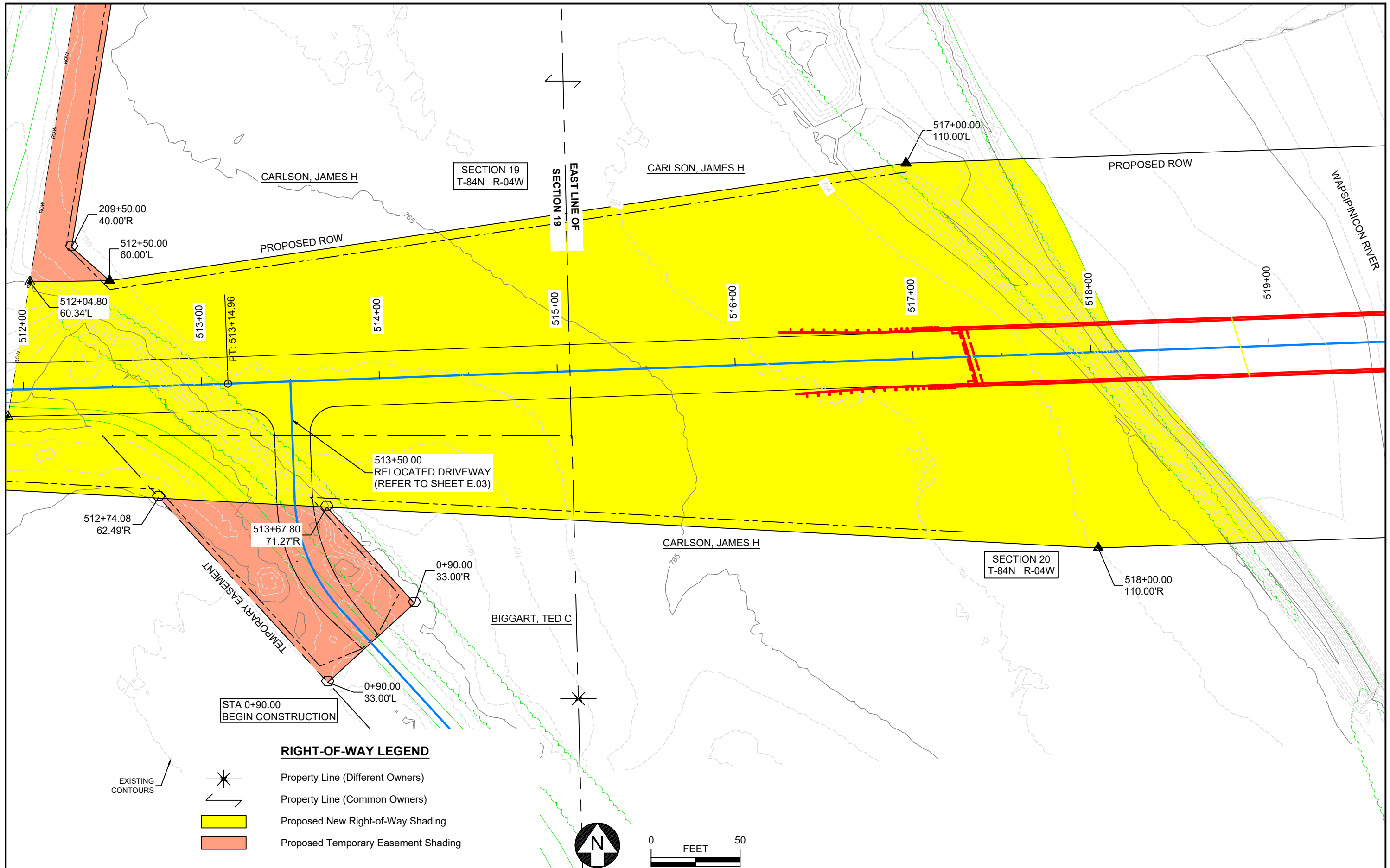


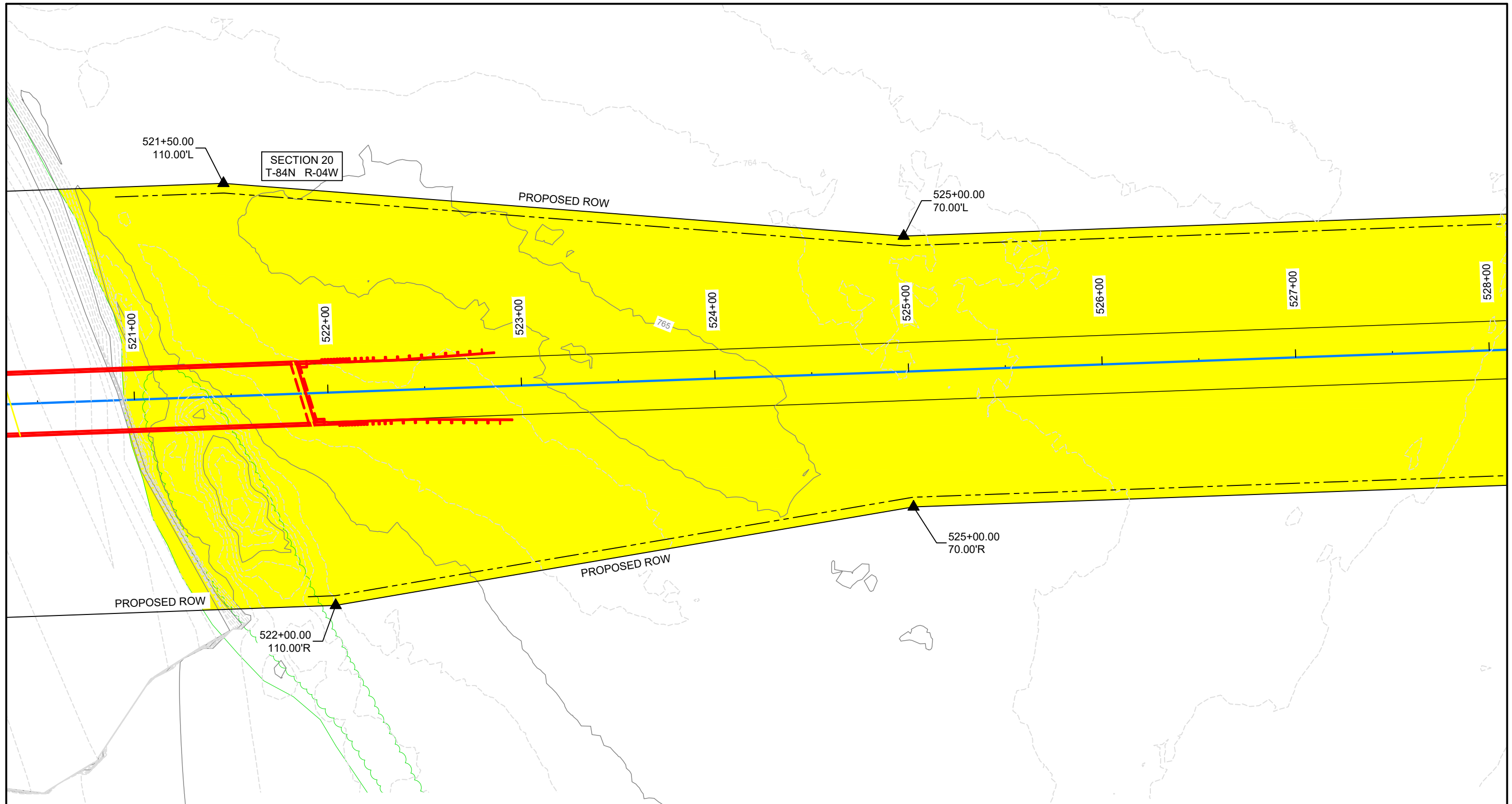


RIGHT-OF-WAY LEGEND

-  Property Line (Different Owners)
-  Property Line (Common Owners)
-  Proposed New Right-of-Way Shading
-  Proposed Temporary Easement Shading


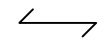
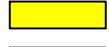





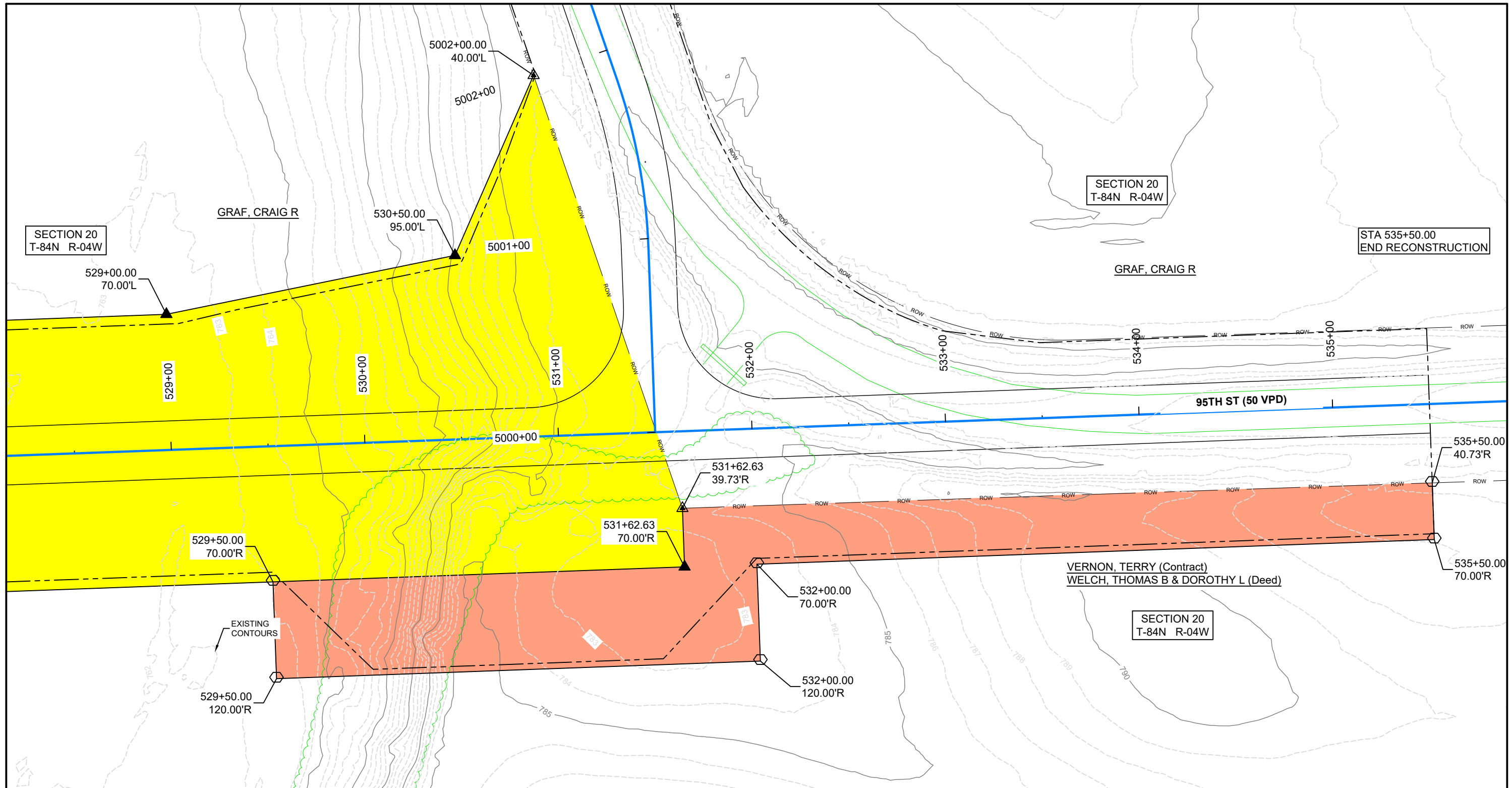


SECTION 20
T-84N R-04W

RIGHT-OF-WAY LEGEND

-  Property Line (Different Owners)
-  Property Line (Common Owners)
-  Proposed New Right-of-Way Shading
-  Proposed Temporary Easement Shading





SECTION 20
T-84N R-04W

SECTION 20
T-84N R-04W

SECTION 20
T-84N R-04W





SECTION 20
T-84N R-04W

GRAF, CRAIG R

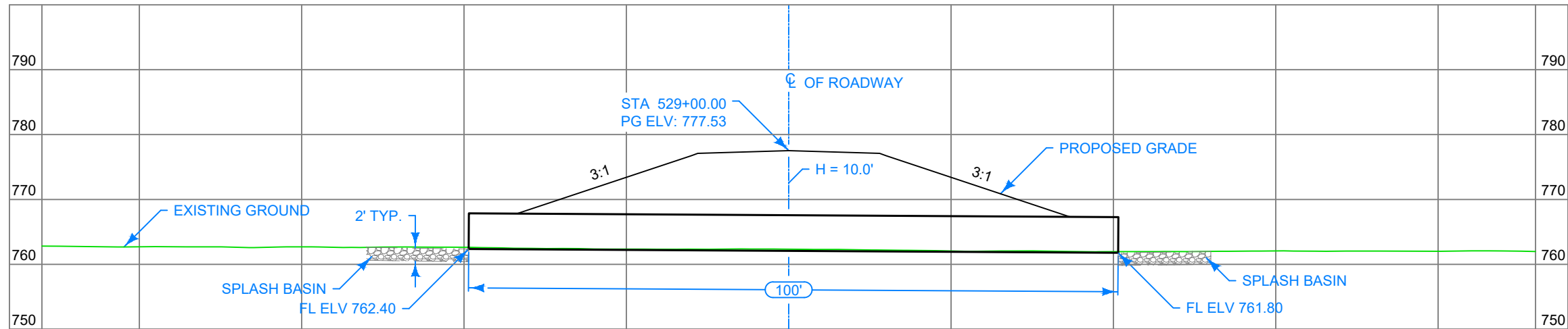
GRAF, CRAIG R

VERNON, TERRY (Contract)
WELCH, THOMAS B & DOROTHY L (Deed)

RIGHT-OF-WAY LEGEND

-  Property Line (Different Owners)
-  Property Line (Common Owners)
-  Proposed New Right-of-Way Shading
-  Proposed Temporary Easement Shading





LONGITUDINAL SECTION ALONG C OF CULVERT

NOTES:

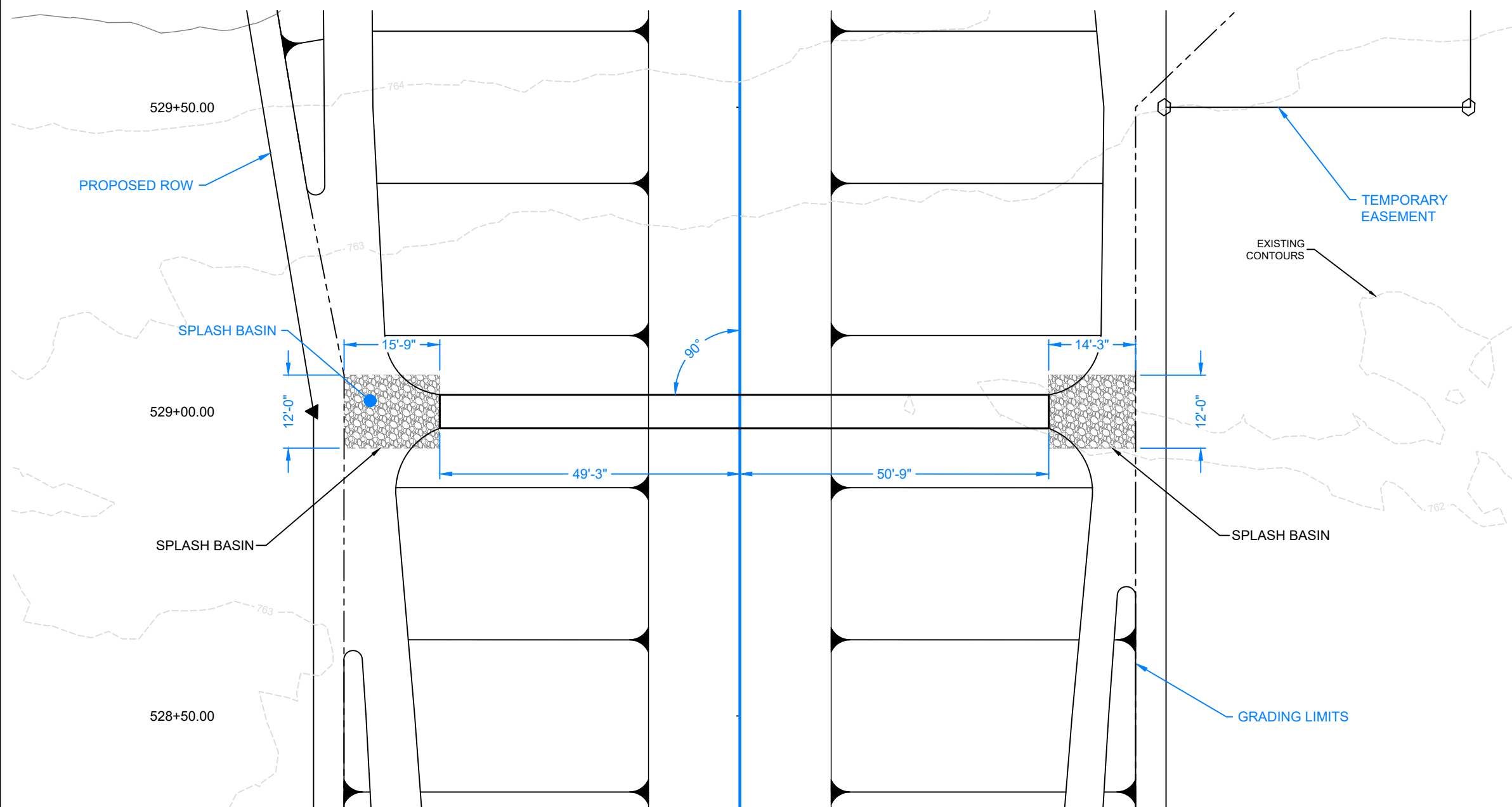
1. Refer to Tab. 100-23 on C Sheets for Rock Erosion Control Quantities information.

LOCATION

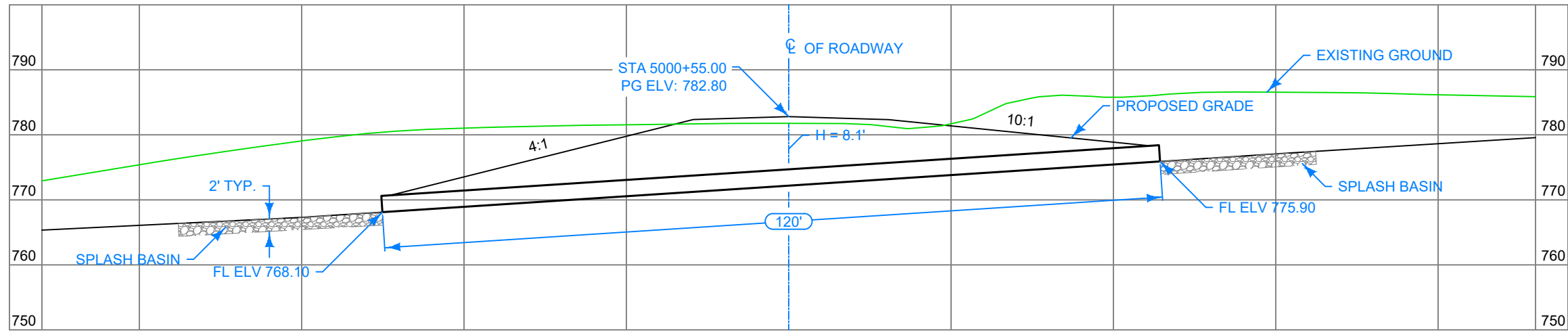
LANDIS RD
 T-84N R-3W S-20
 Jackson Township
 Jones County
 Latitude 42.070259
 Longitude -91.224089

HYDRAULIC DATA

Drainage Area = 120 AC
 Q^{50} = 168 CFS
 Design HW ELV = 968.01



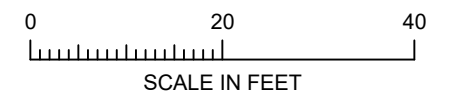
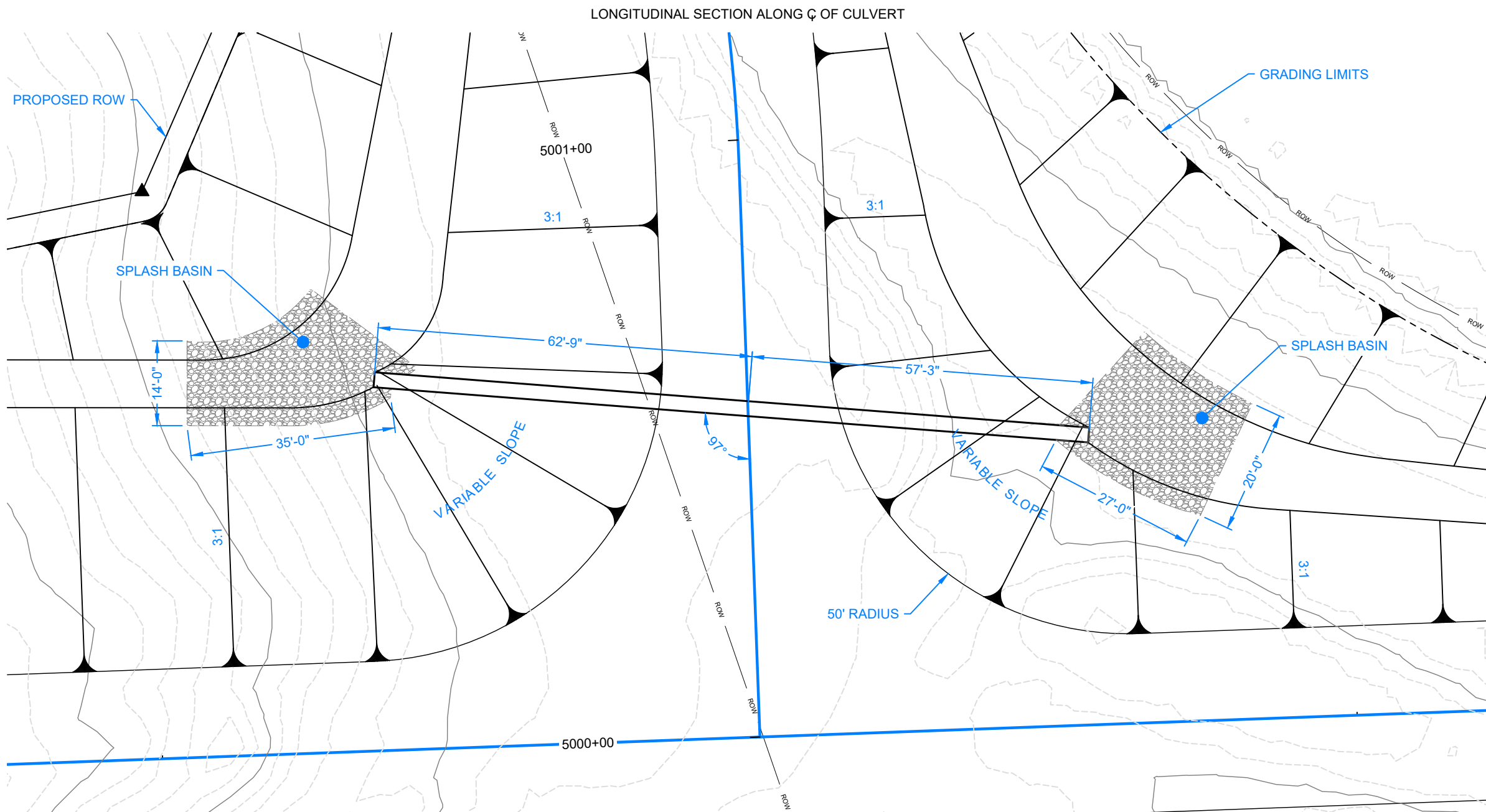
Design for 0° Skew
 66" x 100' CORRUGATED METAL PIPE
 Station 529+00.00
 SITUATION PLAN



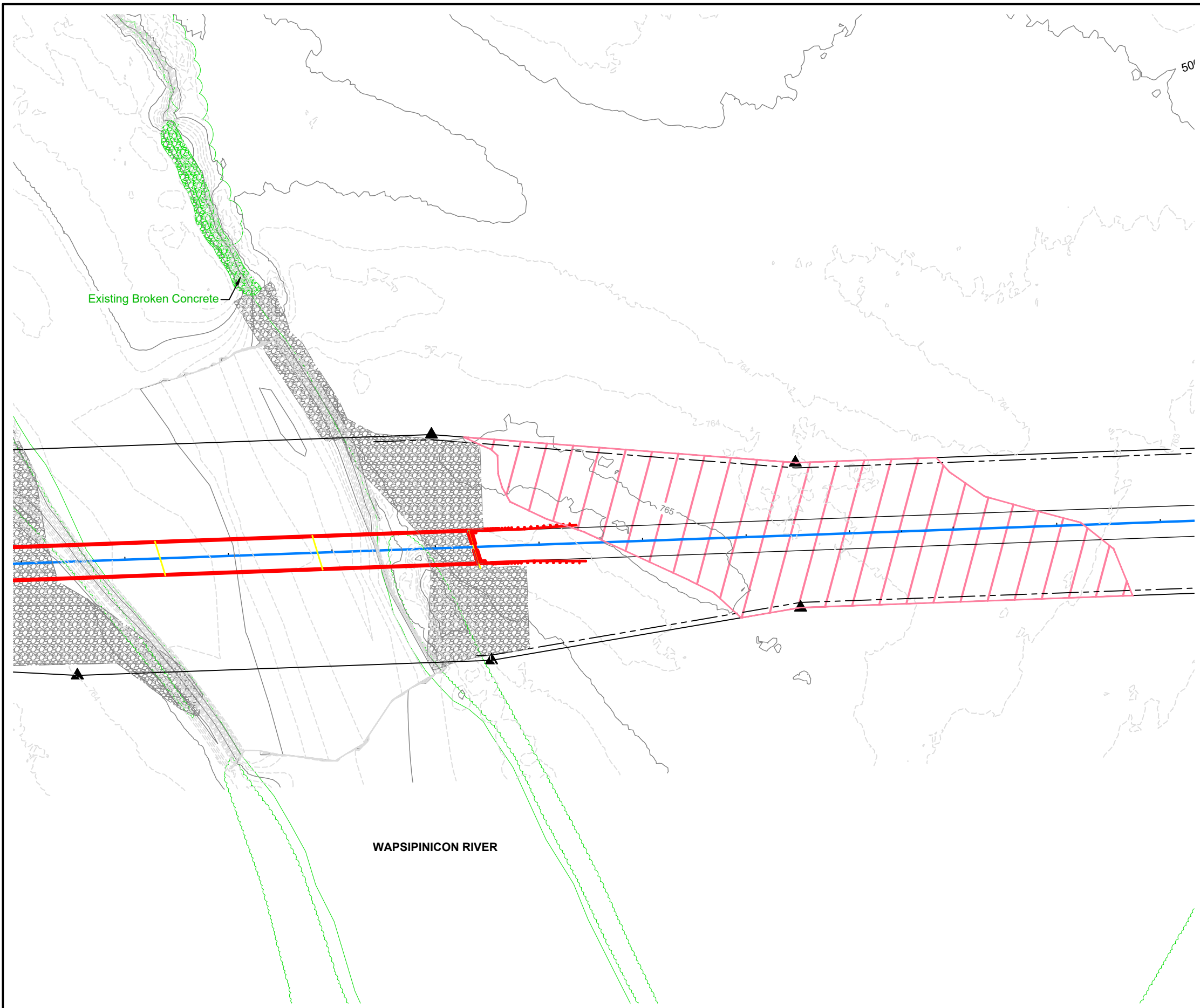
NOTES:
 1. Refer to Tab. 100-23 on C Sheets for Rock Erosion Control Quantities information.

LOCATION
 LANDIS RD
 T-84N R-3W S-20
 Jackson Township
 Jones County
 Latitude 42.070439
 Longitude -91.223176

HYDRAULIC DATA
 Drainage Area = 9 AC
 Q^{50} = 27 CFS
 Design HW ELV = 778.73



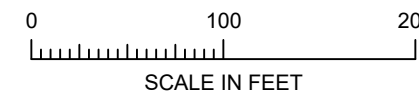
Design for 7° Skew Left Ahead
30" x 120' CORRUGATED METAL PIPE
 Station 5000+55.00
SITUATION PLAN



NOTES:
 Permanently impacted wetland area: 1.41 acres
 Wetland area within proposed ROW: 1.51 acres

DESIGN LEGEND

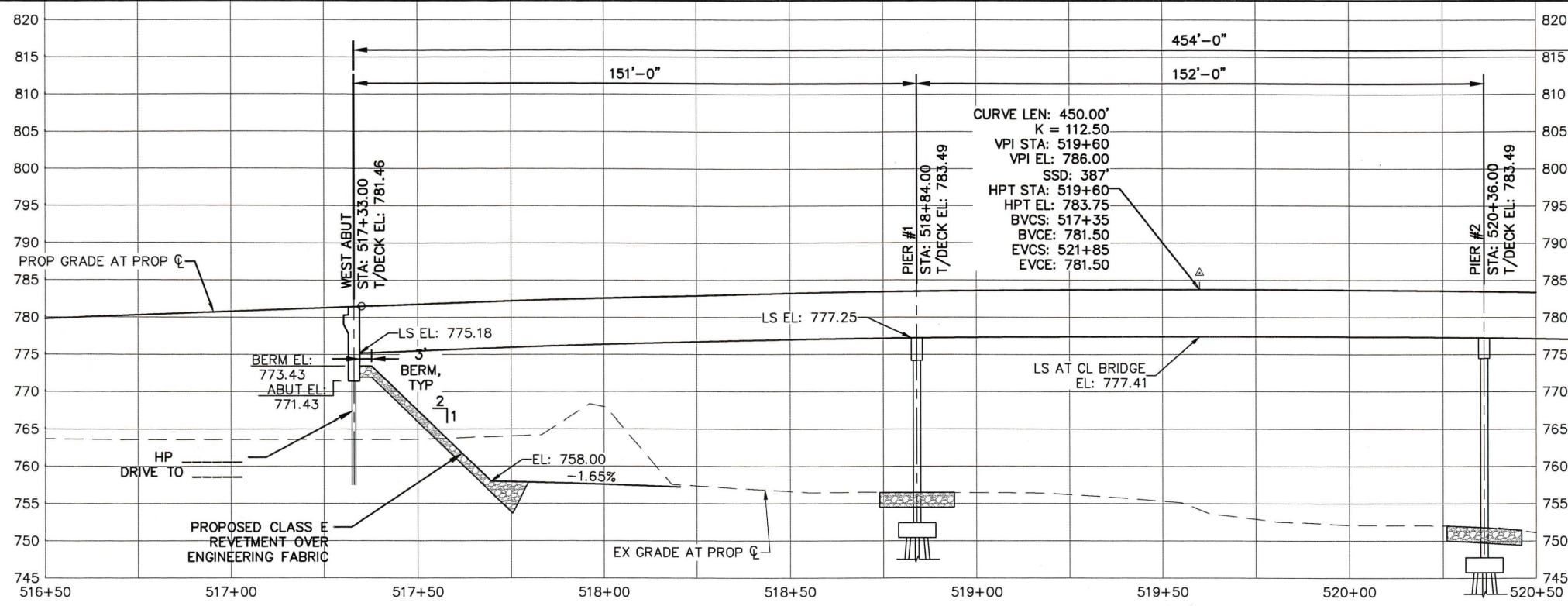
-  Forested Wetlands
-  Delineated Wetlands
-  Ground Line Intercept
-  Edge of Stream Bank



WETLAND DELINEATION

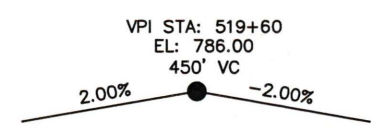
ILL-C053(92)--92-53

VERTICAL SCALE IN FEET
DRAWING MAY HAVE BEEN REDUCED



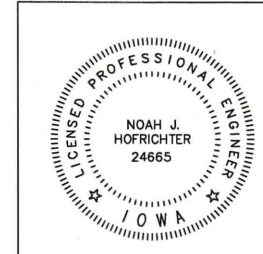
BENCHMARK INFORMATION

BENCH MARKS		
BENCHMARK NO.	ELEVATION	DESCRIPTION
20390	773.82	B.M. FOUND CUT SQUARE



PROPOSED GRADE ON LANDIS ROAD

NTS

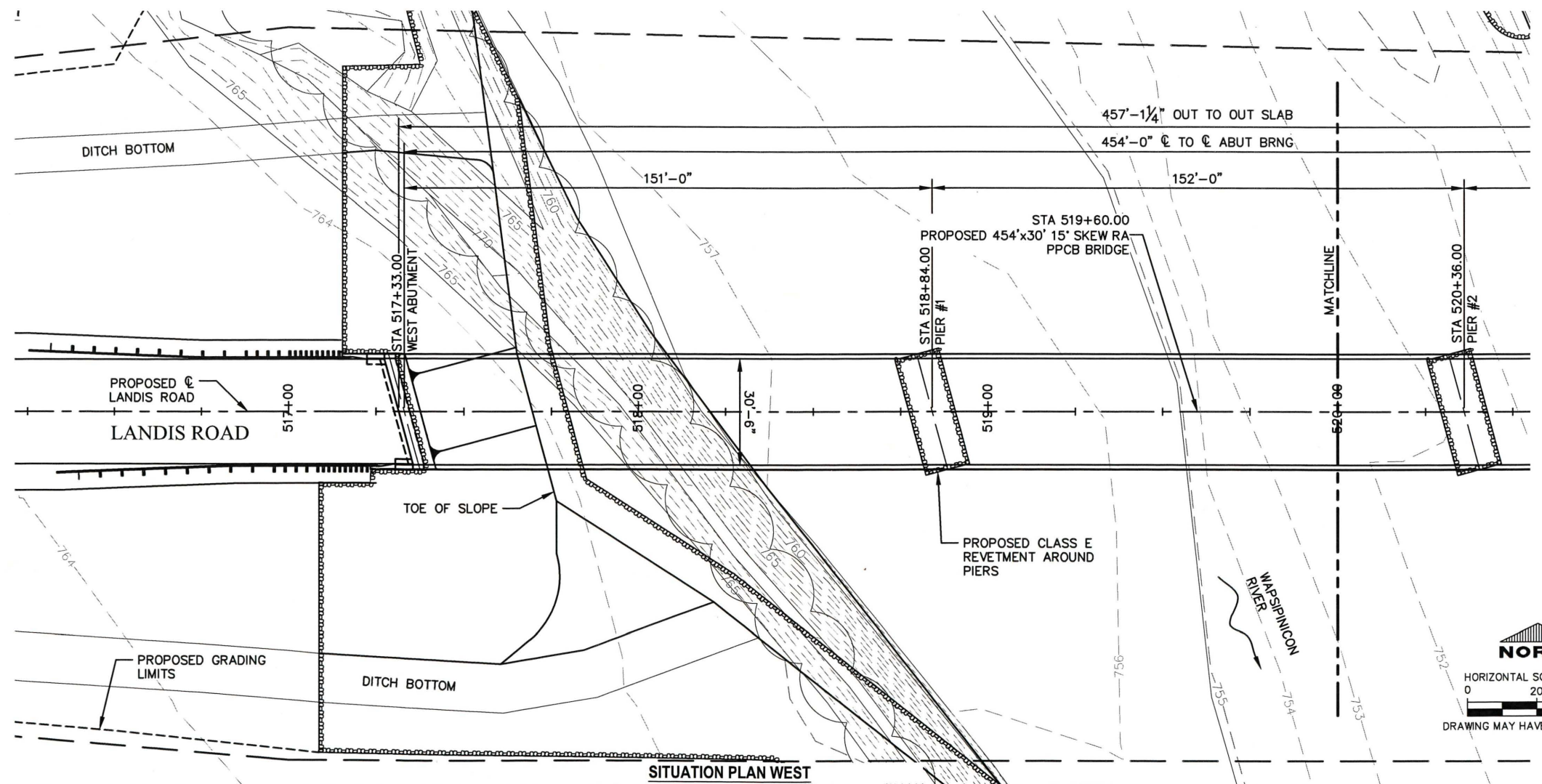


I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

FOR ORIGIN DESIGN OF:
Noah J. Hofrichter 11/30/2021
NOAH J. HOFRICHTER DATE
PE 24665 12/31/2021
LICENSE # RENEWAL DATE
PAGES OR SHEETS COVERED BY THIS CERTIFICATION:
V.01-V.03

SEE V.03 FOR REVETMENT DETAILS

PROFILE



NOTES
TOP OF BRIDGE DECK AT CENTERLINE ROADWAY IS 0.03' BELOW THE PROFILE GRADE TO ACCOUNT FOR DECK CROSS SLOPE AND PARABOLIC CROWN.
PIER TYPE: T-PIER
CLASS E REVETMENT IS EMBEDDED.

LOCATION
JONES COUNTY
T84N R4W, JACKSON TWP.
NW 1/4 SEC 20
OVER WAPSIPINICON RIVER
42.0702841 N, -091.2275459 E

HYDRAULIC DATA

DRAINAGE AREA	1590	SQ. MI.
MAIN CHANNEL SLOPE	2.3	FT./MI.
DESIGN DISCHARGE	36,400	CFS (100 YR)
DESIGN HIGH WATER	777.14	FT. ELEV (100 YR)
REACH SLOPE (LOCAL)	1.27	FT./MI.
BRIDGE FLOW AREA	8,351	SQ. FT. (100 YR)
DESIGN VELOCITY	3.6	FPS (100 YR)

Q ₅₀	32,200	CFS	NATURAL STAGE	775.70	FT.
Q ₁₀₀	36,400	CFS	NATURAL STAGE	777.19	FT.
Q _{OVERTOPPING}	29,300	CFS	MIN. ROAD ELEV.	774.16	FT.
Q ₅₀₀	45,900	CFS	STAGE WITH BACKWATER	780.38	FT.

EXTREME HIGH WATER 31,800 CFS
STAGE 775.8 FT. DATE: 6/13/2008
LOCATION: EXISTING LANDIS ROAD BRIDGE

BRIDGE IS DESIGNED TO WITHSTAND THE APPLICABLE EFFECTS OF ICE AND THE HORIZONTAL STREAM AND UPLIFT FORCES ASSOCIATED WITH THE Q100 EVENT.

Design For
454' x 30' x 15' SKEW, RA PPCB BRIDGE
ON LANDIS RD OVER WAPSIPINICON RIVER

SITUATION PLAN WEST

Station: 519+60 Date: ..
JONES COUNTY



HORIZONTAL SCALE IN FEET
0 20 40
DRAWING MAY HAVE BEEN REDUCED

P:\21\032\DRAWINGS\CIVIL\21032_ZZ-V SHEETS-SITUATION PLAN.DWG 11/10/2021 12:28:39 PM DAVE SCHWARZ

DESIGNED BY: _____
DETAILED BY: _____

TRACED BY: _____
CHECKED BY: _____

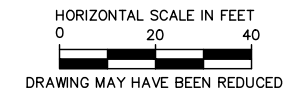
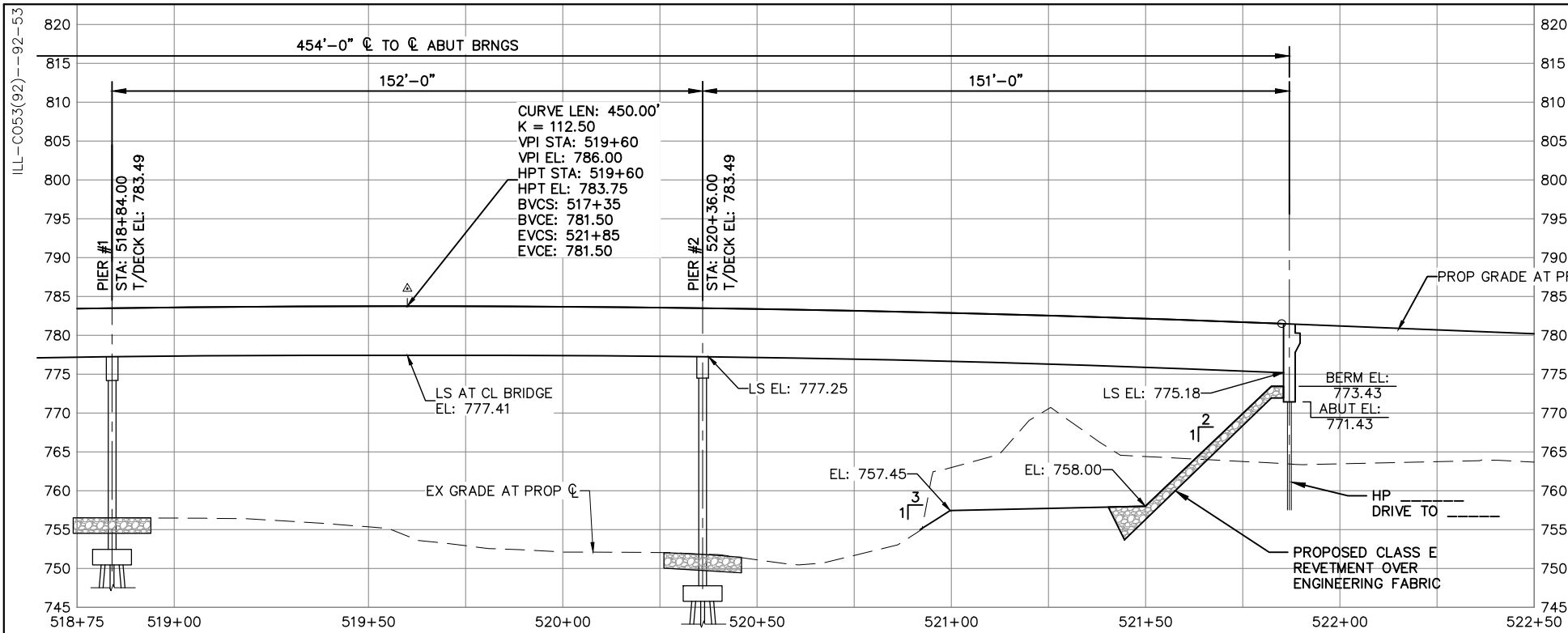
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JONES COUNTY

PROJECT NUMBER

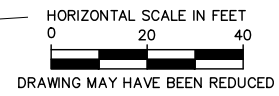
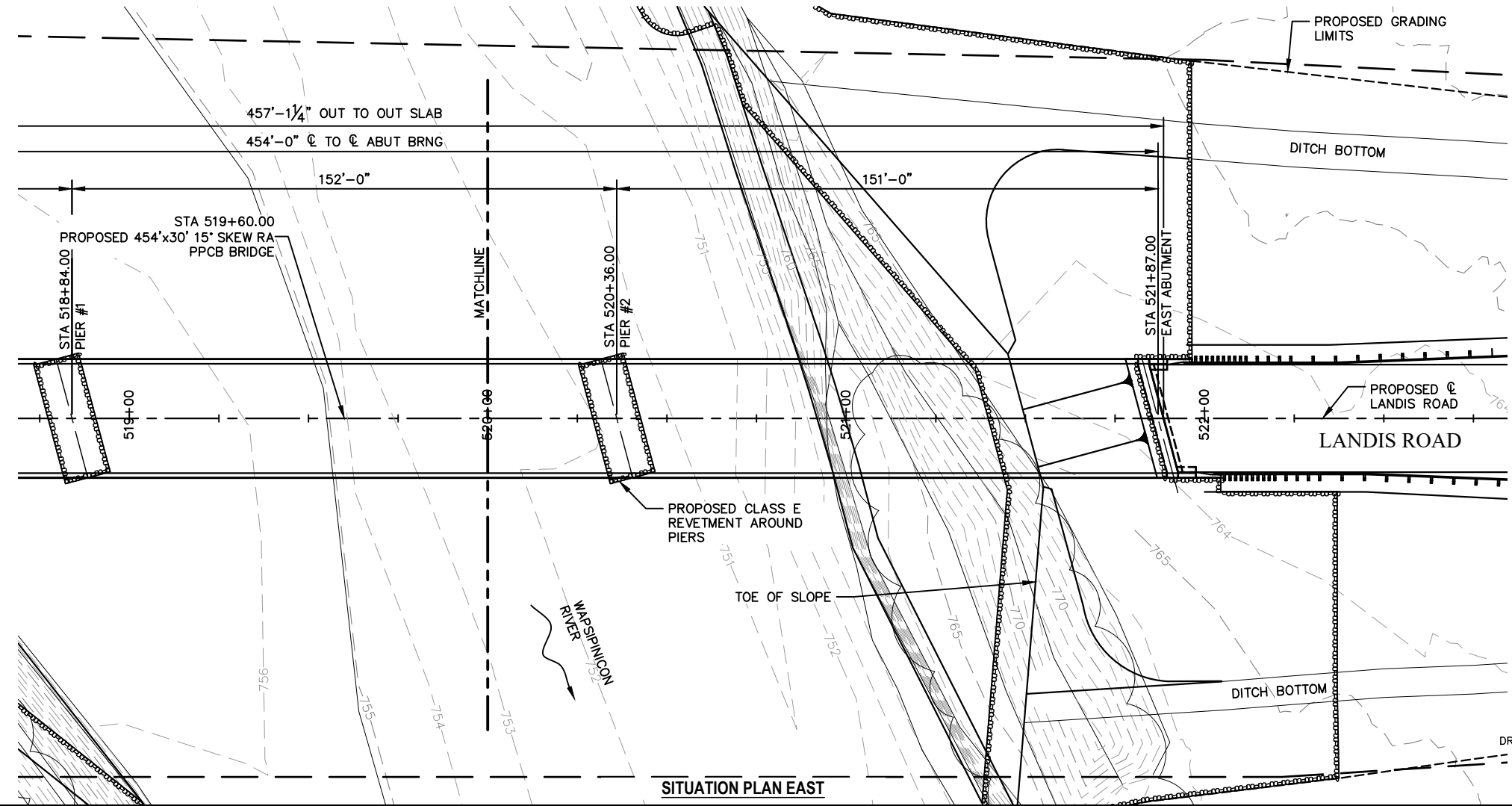
ILL-C053(92)--92-53

STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA			V.01	



SEE V.3 FOR REVETMENT DETAILS

PROFILE



Design For
 454' x 30' 15" SKEW, RA PPCB BRIDGE
 ON LANDIS RD OVER WAPSIPINICON RIVER
 SITUATION PLAN EAST
 Station: 519+60 Date: .
 JONES COUNTY

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DESIGNED BY: _____
 DETAILED BY: _____

TRACED BY: _____
 CHECKED BY: _____

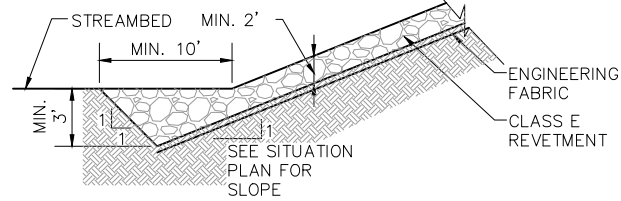
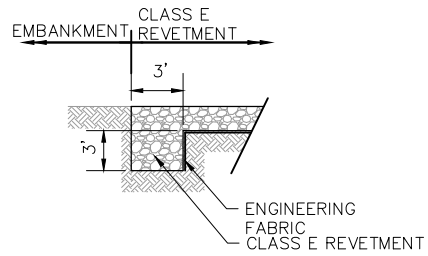
origin 800 556-4491

JONES COUNTY

PROJECT NUMBER

ILL-C053(92)--92-53

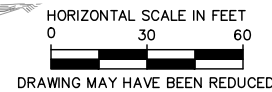
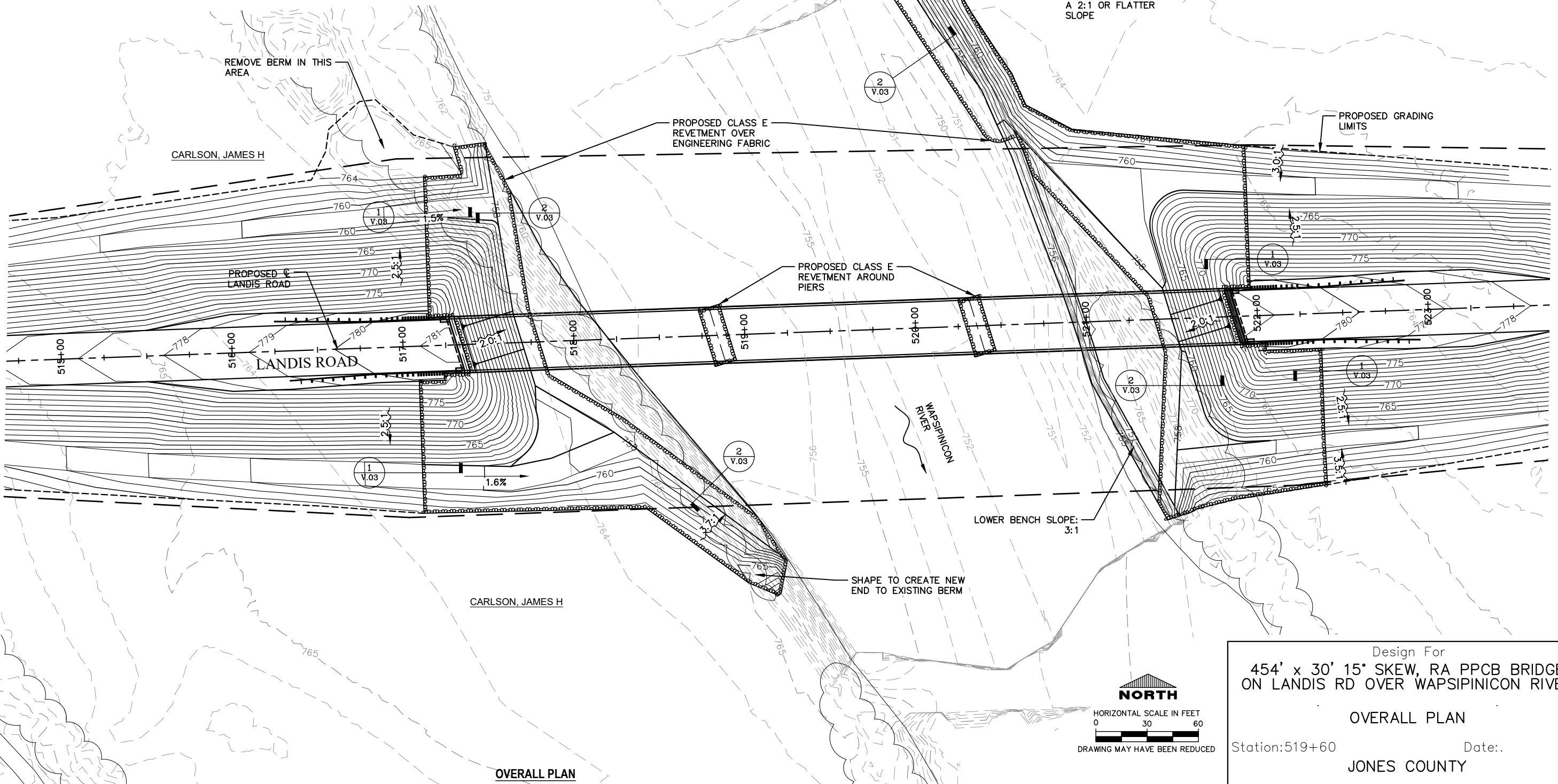
STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA			V.02	



1 CLASS E REVETMENT
V.03 END ANCHOR DETAIL NOT TO SCALE

2 CLASS E REVETMENT
V.03 TOE-IN DETAIL NOT TO SCALE

THIS SHEET INTENDED TO CONVEY CHANNEL SHAPING, GRADING WITHIN BRIDGE OPENING, AND REVETMENT DETAILS. REFER TO D SHEETS FOR ADDITIONAL DETAILS OF ROADWAY AND DITCH GRADING, RIGHT OF WAY AND EASEMENT LIMITS, ETC.



Design For
454' x 30' 15° SKEW, RA PPCB BRIDGE
ON LANDIS RD OVER WAPSIPINICON RIVER
OVERALL PLAN
Station: 519+60 Date: .
JONES COUNTY