

Project Submittal Interim Form



Updated December 4, 2023

*Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.*

- Project Type: ***
- For the Record Only (Courtesy Copy)
 - New Project
 - Modification/New Project with Existing ID
 - More Information Response
 - Other Agency Comments
 - Pre-Application Submittal
 - Re-Issuance/Renewal Request
 - Stream or Buffer Appeal

Project Contact Information

Name: Deanna Riffey
Who is submitting the information?

Email Address: * driffey@ncdot.gov

Project Information

Existing ID #: *	Existing Version: *
20230613	1
<i>20170001 (no dashes)</i>	<i>1</i>

Project Name: * Replacement of Bridge 22 on US 701 over Bill's Swamp (BR-0046)

Is this a public transportation project? *

- Yes
- No

Is this a DOT project? *

- Yes
- No

Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

- Yes No Unknown

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? *

- Yes No

Is this project connected with ARPA funding? *

- Yes No

TIP#:

BR-0046

WBS#:

67046.1.1

(Applies to DOT projects only)

County (ies) *

Sampson

Please upload all files that need to be submitted.[Click the upload button or drag and drop files here to attach document](#)

DMS Accept_BR-0046 Additional.pdf	370.91KB
BR0046_PermitDrawings_2024_07_31.pdf	21.6MB

Only pdf or kmz files are accepted.

Describe the attachments or add comments:

Site 1 - Detour: Due to the combination of an onsite detour bridge and the new construction bridge and dividing permanent fill impacts there was a wetland area that was missed that should have been part of the detour bridge build. The area of wetland missed is located just below the rock plating on on the east approach to detour bridge. Also, within the same wetland area part of the fill that was accounted for with the new bridge has moved to the detour bridge impacts as well. This wetland area will now be shown as fill for the detour bridge and will remain as part of the new bridge. The permanent fill impacts for detour bridge increased from 0.01 acres to 0.04 acres. The impacts for the new bridge permanent fill has decreased from 0.04 to 0.02 acres. The increase of permanent wetland impacts is 0.01 acres of permanent wetland fill. Total permanent wetland impacts was 0.20 acres and is now 0.21 acres.

Site 1 - Bridge: Mechanized clearing within the same wetland area discussed above has been adjusted to run along the outside of the new bridge end bent area instead of wrapping around it to incorporate the necessary construction area needed for the new bridge bent and the addition of permanent fill to the detour bridge in place of the area that wrapped . The mechanized clearing impact area for the new bridge did not change.

There will be approximately 1350 square feet of temporary wetland excavation performed to remove stumps under the detour bridge. This amount of temporary wetland impact was reported in the note section on the Permit Summary Table and has been discussed previously at an onsite meeting.

* By checking the box and signing box below, I certify that:

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the online form.

Signature: *

Submittal Date:



NORTH CAROLINA
Environmental Quality

July 31, 2024

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MARC RECKTENWALD
Director

Mr. Jamie Lancaster, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Lancaster:

Subject: DMS Mitigation Acceptance Letter:
BR-0046, Replace Bridge 810022 on US 701 over Bill’s Swamp, Sampson County
References: USACE 404 GP 50 issued June 2, 2023 (USACE Action ID 2018-01609)
NCDWR 401 Water Quality Certification issued May 16, 2023 (NCDWR ID 2023-0613)

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the additional compensatory wetland mitigation for the subject project. Based on the information supplied by you on July 30, 2024, the impacts are located in CU 03030006 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Table 1 – Additional Impacts (feet / acres)

Cape Fear 03030006 SICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.010	0	0	0	0

*NOTE: Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This additional impact and associated mitigation needs were not projected by the NCDOT in the 2024 impact data. DMS is currently providing wetland mitigation for the impacts associated with this project located in cataloging unit 03030006 of the Cape Fear River basin as required by the 404 and 401 permits issued in 2023, as shown in the below table (in mitigation credits)



North Carolina Department of Environmental Quality | Division of Mitigation Services
217 West Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652
919.707.8976

Table 2 – Current Permitted Impacts and Associated Mitigation Requirements provided by DMS (based on issued permits) and Revised Anticipated Impacts (based on mitigation request)

Impact Type	Total Permitted Impacts (feet / acre / sq ft)	Mitigation Provided by DMS per Issued Permits (Credits)	Additional Impact (for approval)	Revised Total Impacts*
Riparian Wetland	0.200	0.400	0.010	0.210

*Some of the additional impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details. DMS will provide the amount of mitigation as determined by the regulatory agencies.

DMS commits to implementing additional sufficient compensatory mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,



Elizabeth A. Harmon
NCDOT ILF Coordinator

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office
Ms. Amy Chapman, Division of Water Resources, Wetlands/401 Unit
File: BR-0046 Additional



See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

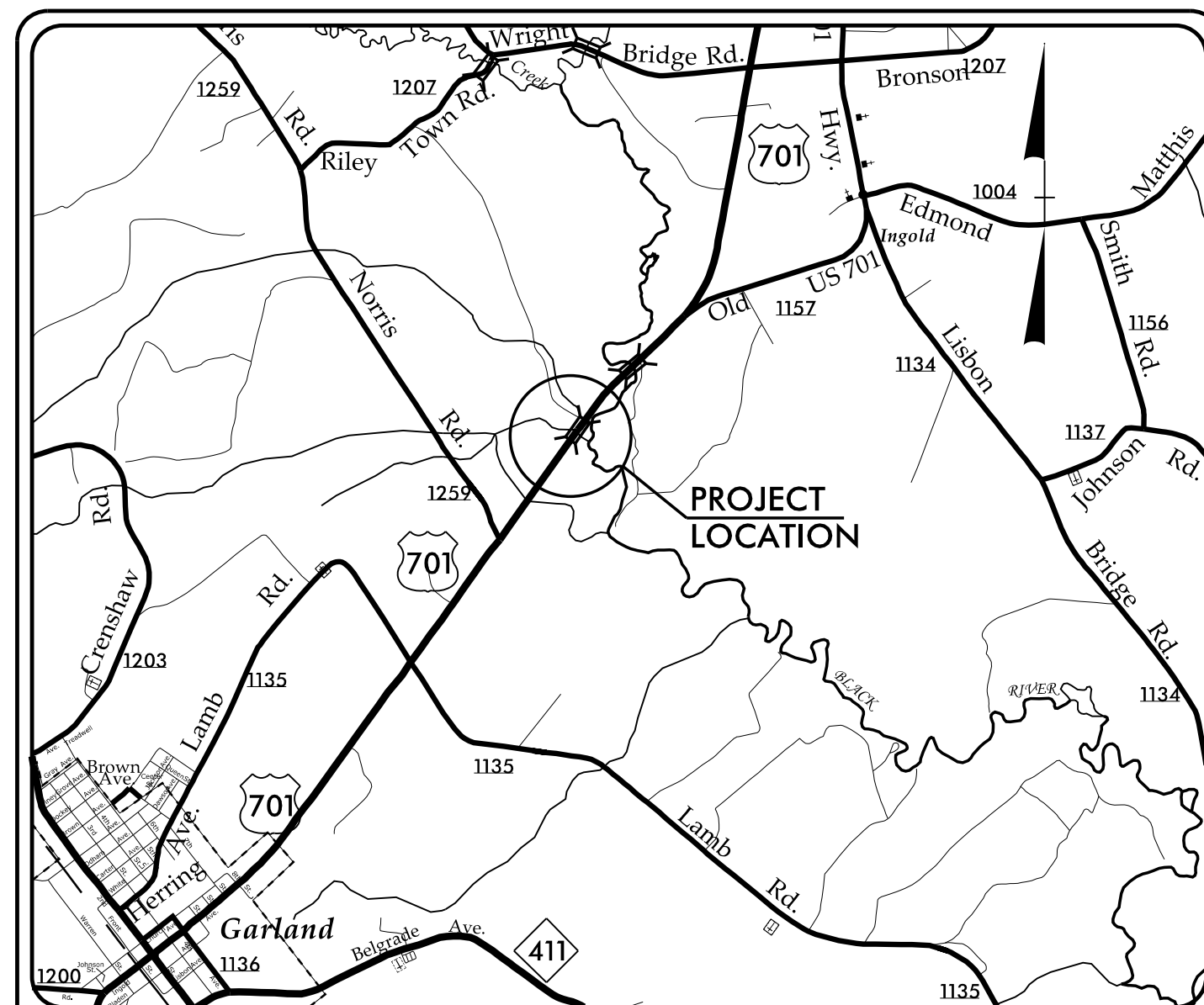
SAMPSON COUNTY

LOCATION: BRIDGE 810022 ON US 701 OVER
BILL'S SWAMP

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURES

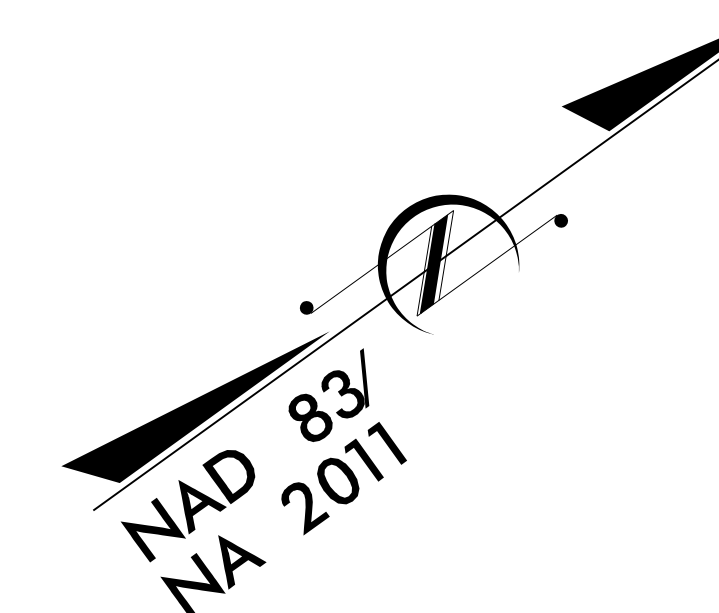
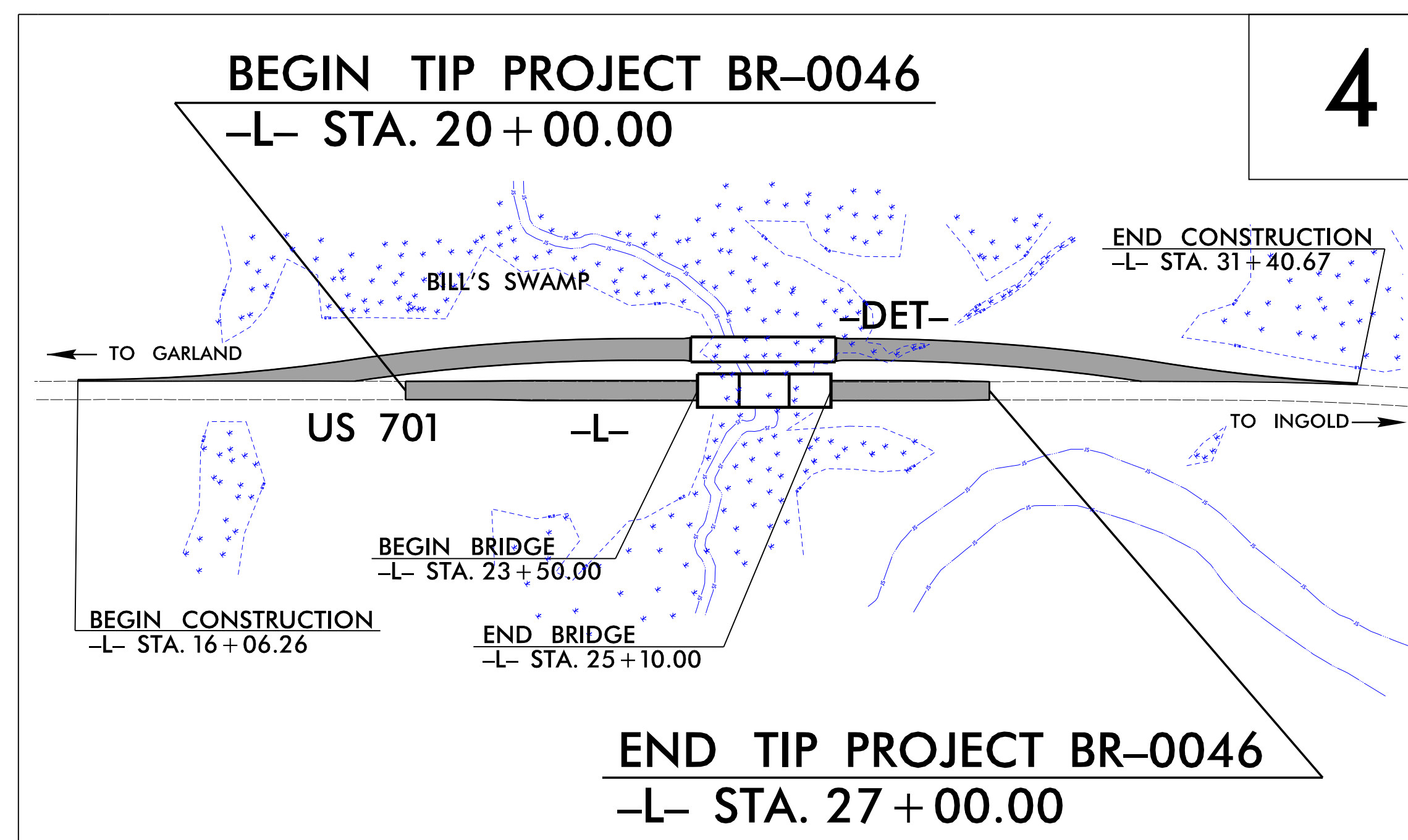
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0046	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67046.1.1		PE	
67046.2.1		RW & UTIL	
67046.3.1		CONS.	

PERMIT DRAWING
SHEET 1 OF 18



VICINITY MAP

WETLAND AND SURFACE WATER IMPACTS PERMIT

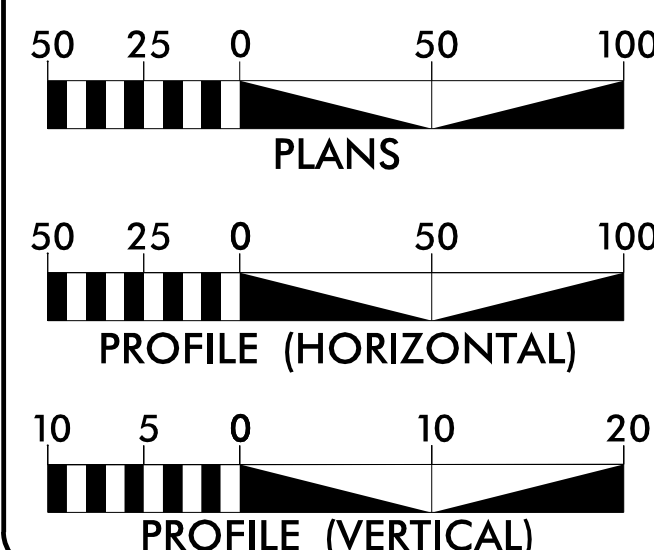


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: BR-0046

CONTRACT: C204831

GRAPHIC SCALES



DESIGN DATA

ADT 2023 = 5,535
ADT 2043 = 6,165
K = 9 %
D = 55 %
T = 12 % *
V = 60 MPH
* (TTST 8%+ DUAL 4%)
FUNC CLASS =
MINOR ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0046 = 0.103 MI
LENGTH STRUCTURE TIP PROJECT BR-0046 = 0.030 MI
TOTAL LENGTH OF TIP PROJECT BR-0046 = 0.133 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 14, 2022

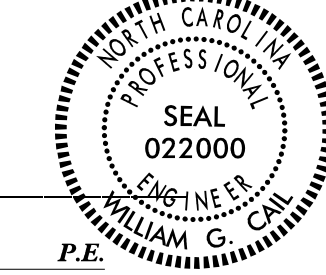
LETTING DATE:
DECEMBER 19, 2023

KIM L. GILLESPIE, PE
PROJECT MANAGER

DAVID J. CLODGO, PE

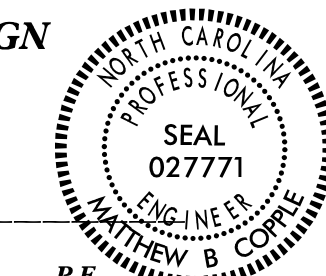
MATTHEW B. COPPLE, PE
PROJECT TEAM LEAD

HYDRAULICS ENGINEER

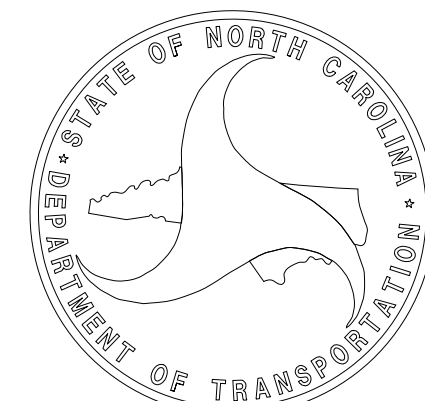


SIGNATURE:

ROADWAY DESIGN
ENGINEER



SIGNATURE:



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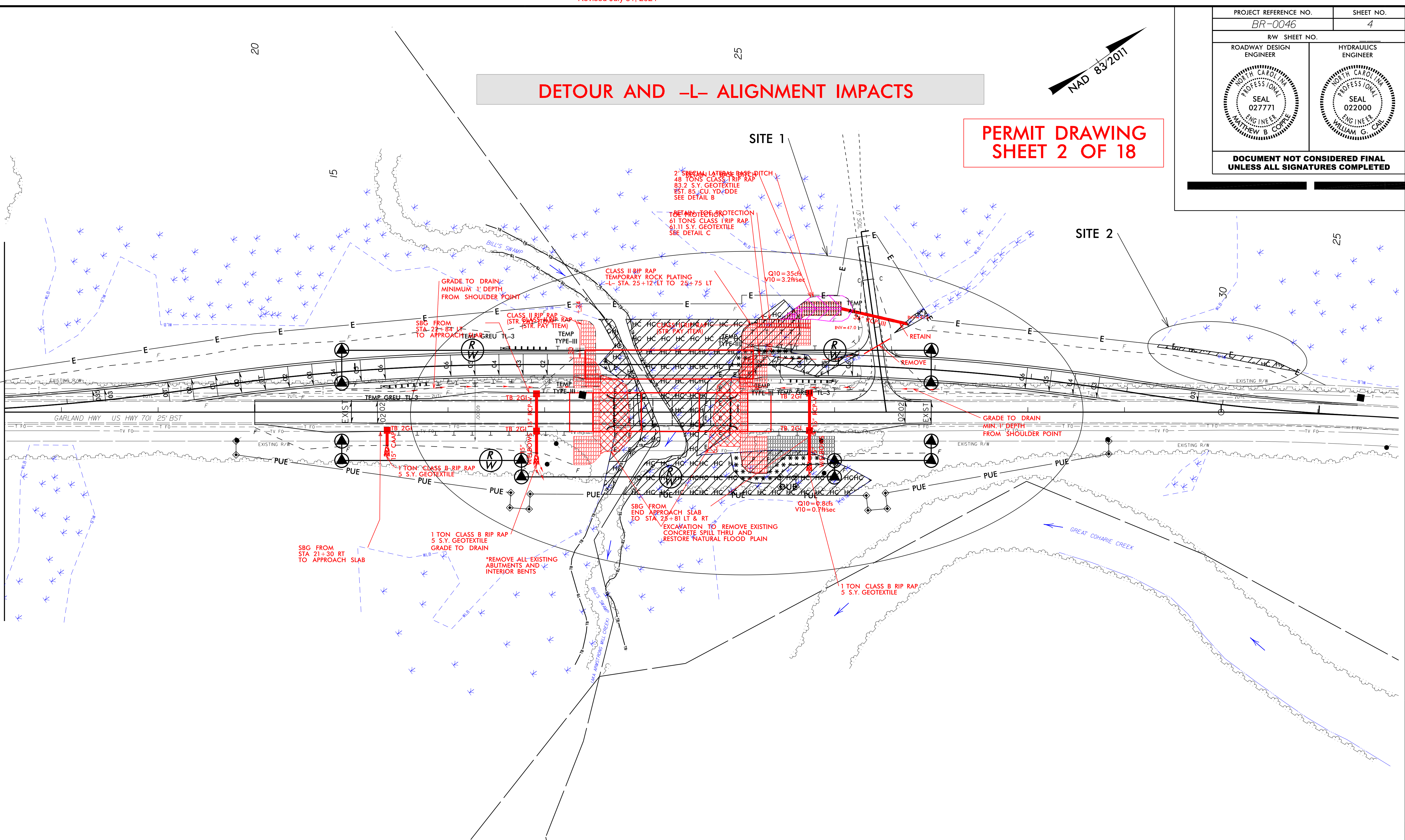
PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

DETOUR AND -L- ALIGNMENT IMPACTS

PERMIT DRAWING SHEET 2 OF 18



MATCHLINE -L- STA. 17+41.00
SEE INSET A



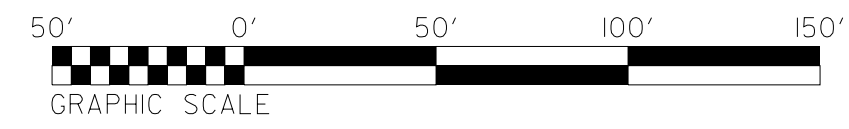
-L- ALIGNMENT IMPACTS

- F F FILL IN WETLAND
- E E WETLAND EXCAVATION
- * * * MECHANIZED CLEARING (GRUBBING)
- HC HC HAND CLEARING (NON-GRUBBING)

DETOUR ALIGNMENT IMPACTS

- F F FILL IN WETLAND
- T T TEMPORARY FILL IN WETLAND
- HC HC HAND CLEARING (NON-GRUBBING)

FOR -L- PROFILE, SEE SHEET 5



REVISIONS

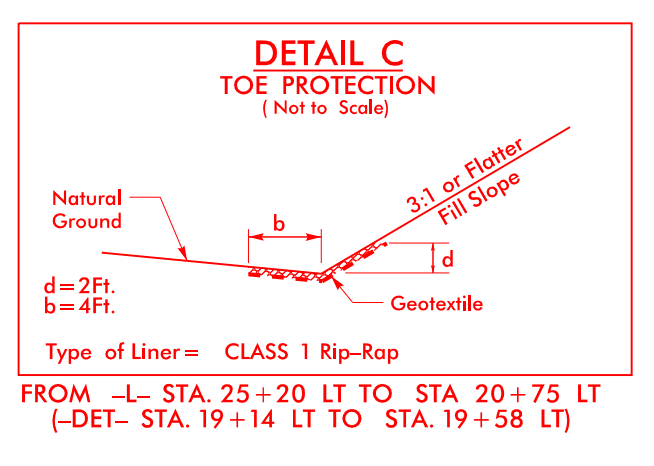
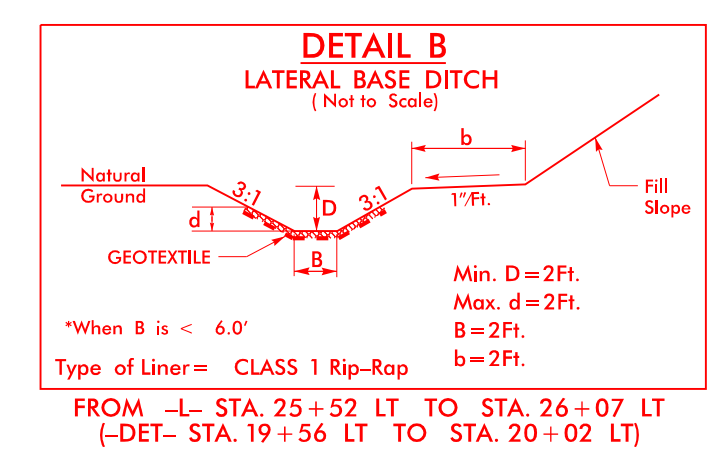
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 027771 MATTHEW B. CORPSE	HYDRAULICS ENGINEER SEAL 022000 WILLIAM G. CAMP
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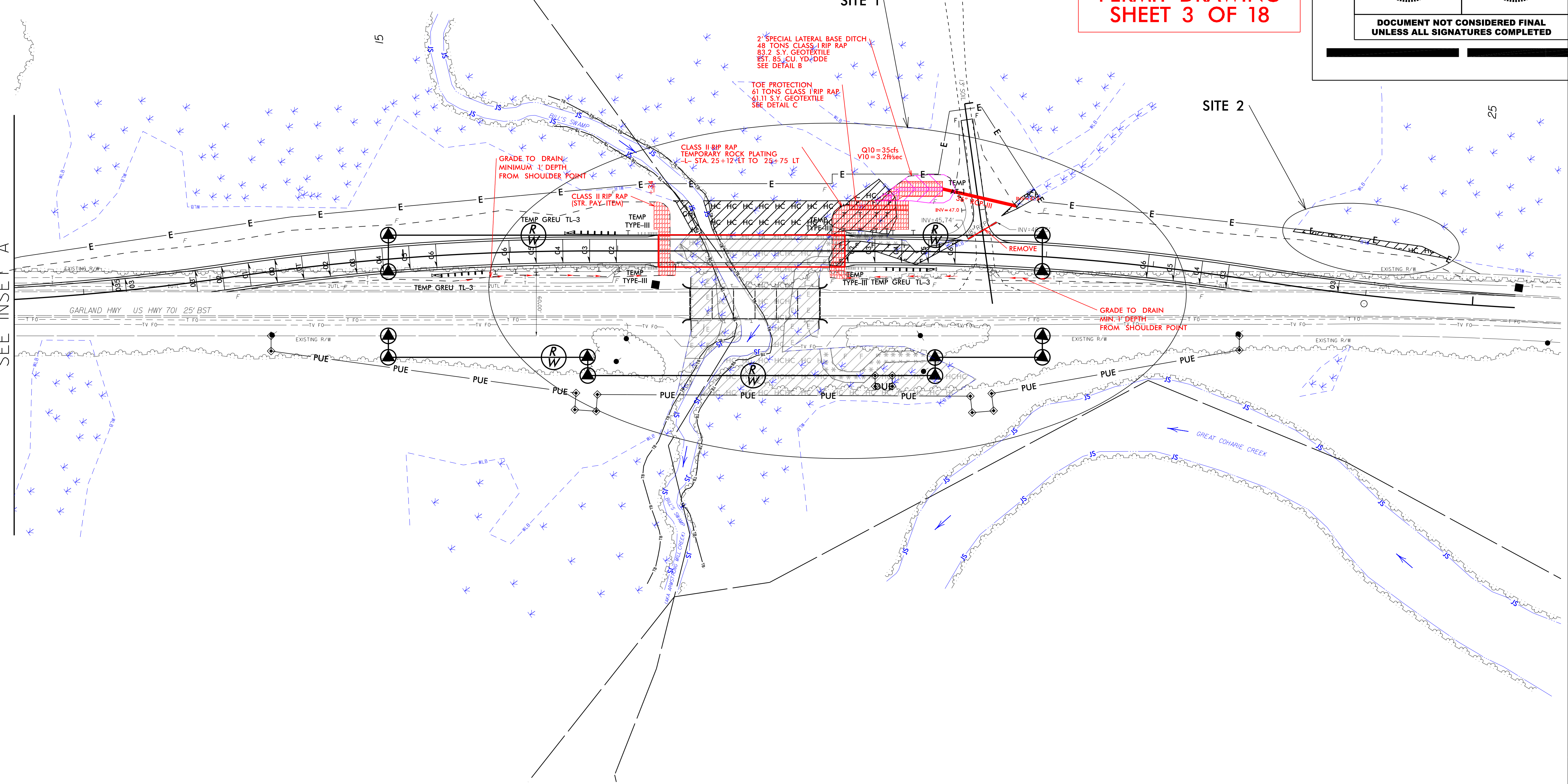


DETOUR ALIGNMENT IMPACTS

**PERMIT DRAWING
SHEET 3 OF 18**



MATCHLINE -L- STA. 17+41.00
SEE INSET A



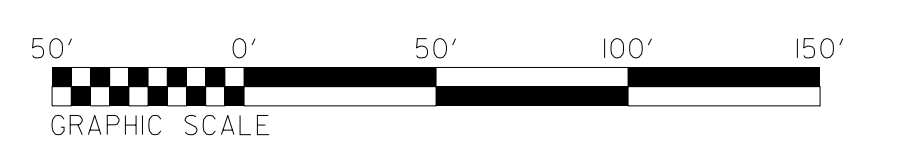
DETOUR ALIGNMENT IMPACTS

- FILL IN WETLAND
- TEMPORARY FILL IN WETLAND
- HAND CLEARING (NON-GRUBBING)

-L- ALIGNMENT IMPACTS

- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

FOR -L- PROFILE, SEE SHEET 5



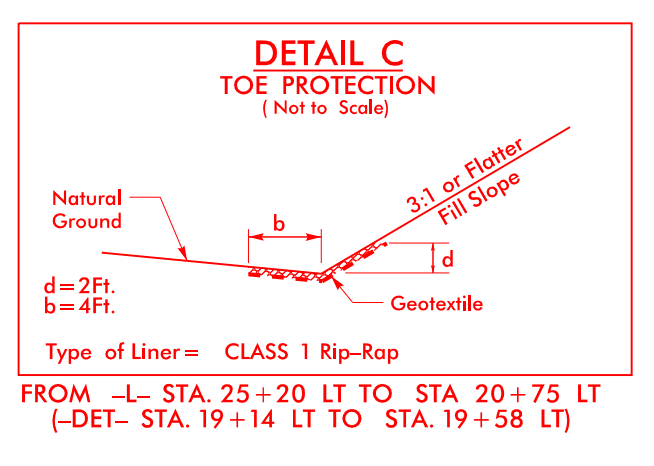
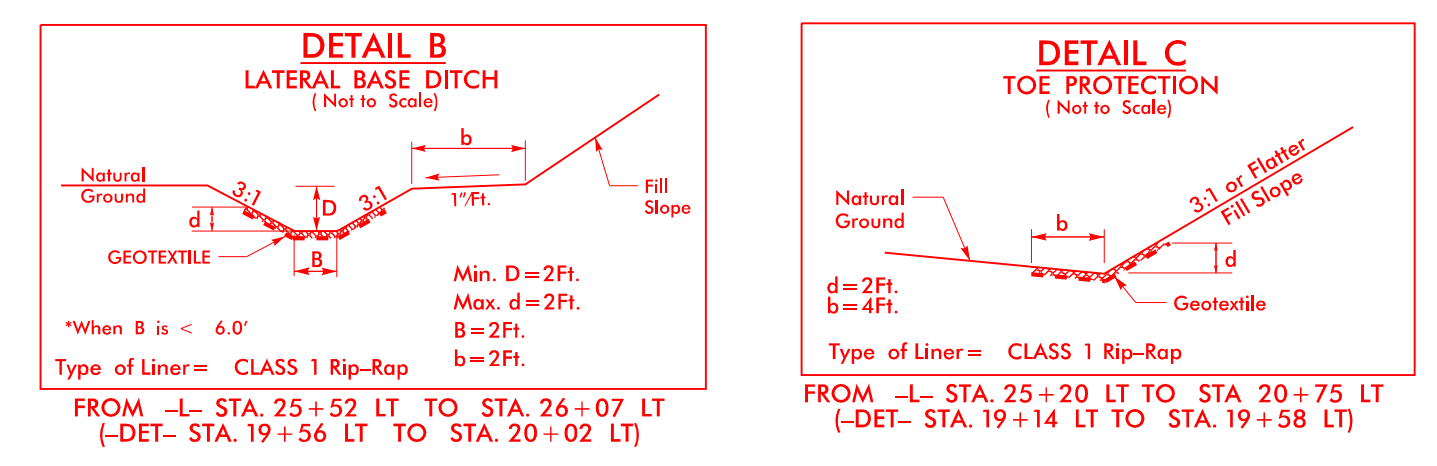
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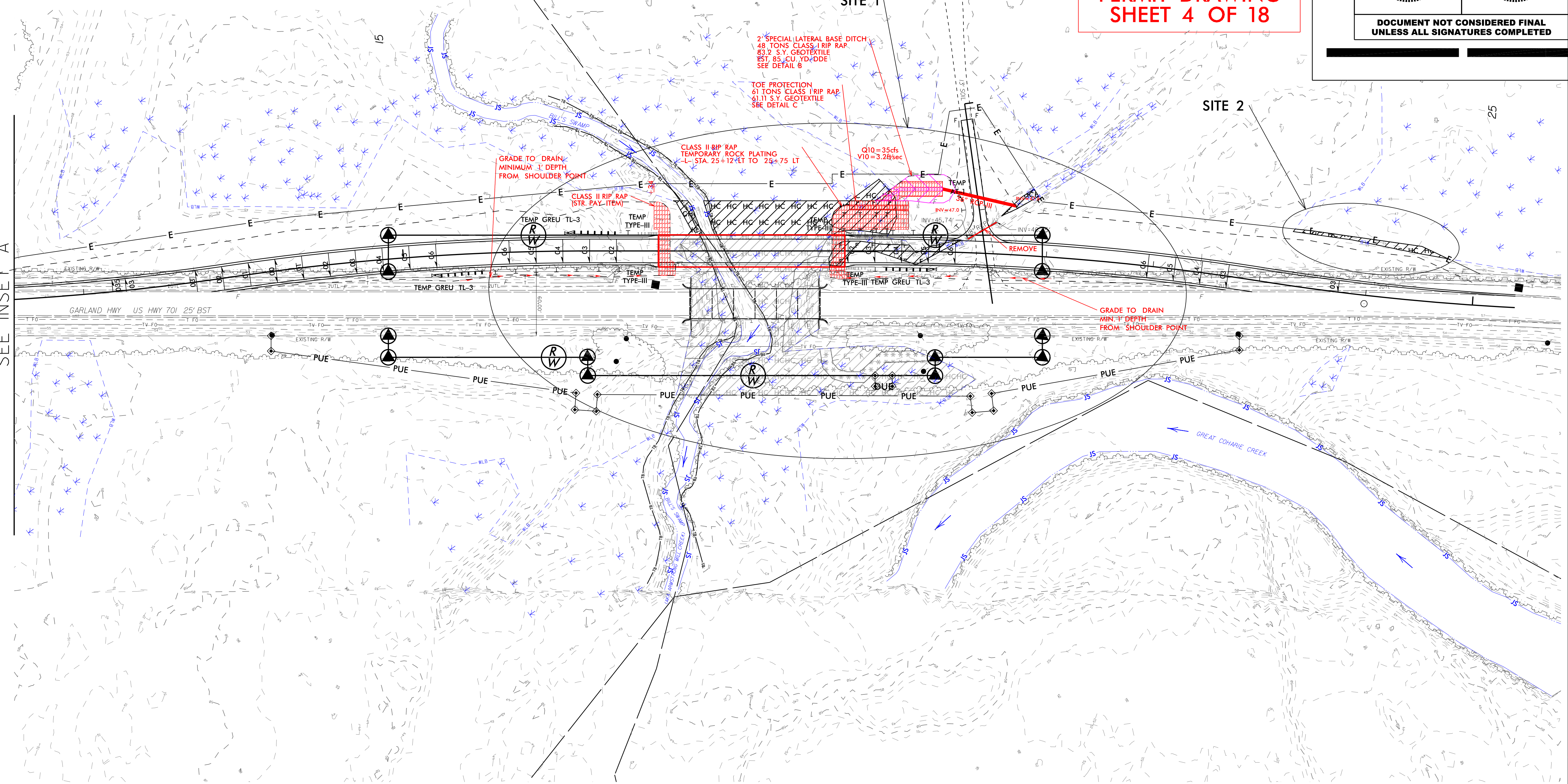
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DETOUR ALIGNMENT IMPACTS

PERMIT DRAWING
SHEET 4 OF 18



MATCHLINE -L- STA. 17+41.00
SEE INSET A



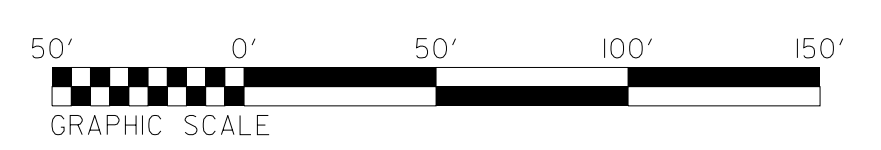
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- HAND CLEARING (NON-GRUBBING)

-L- ALIGNMENT IMPACTS

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FOR -L- PROFILE, SEE SHEET 5



REVISIONS

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DETOUR ALIGNMENT IMPACTS

PERMIT DRAWING
SHEET 5 OF 18



PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
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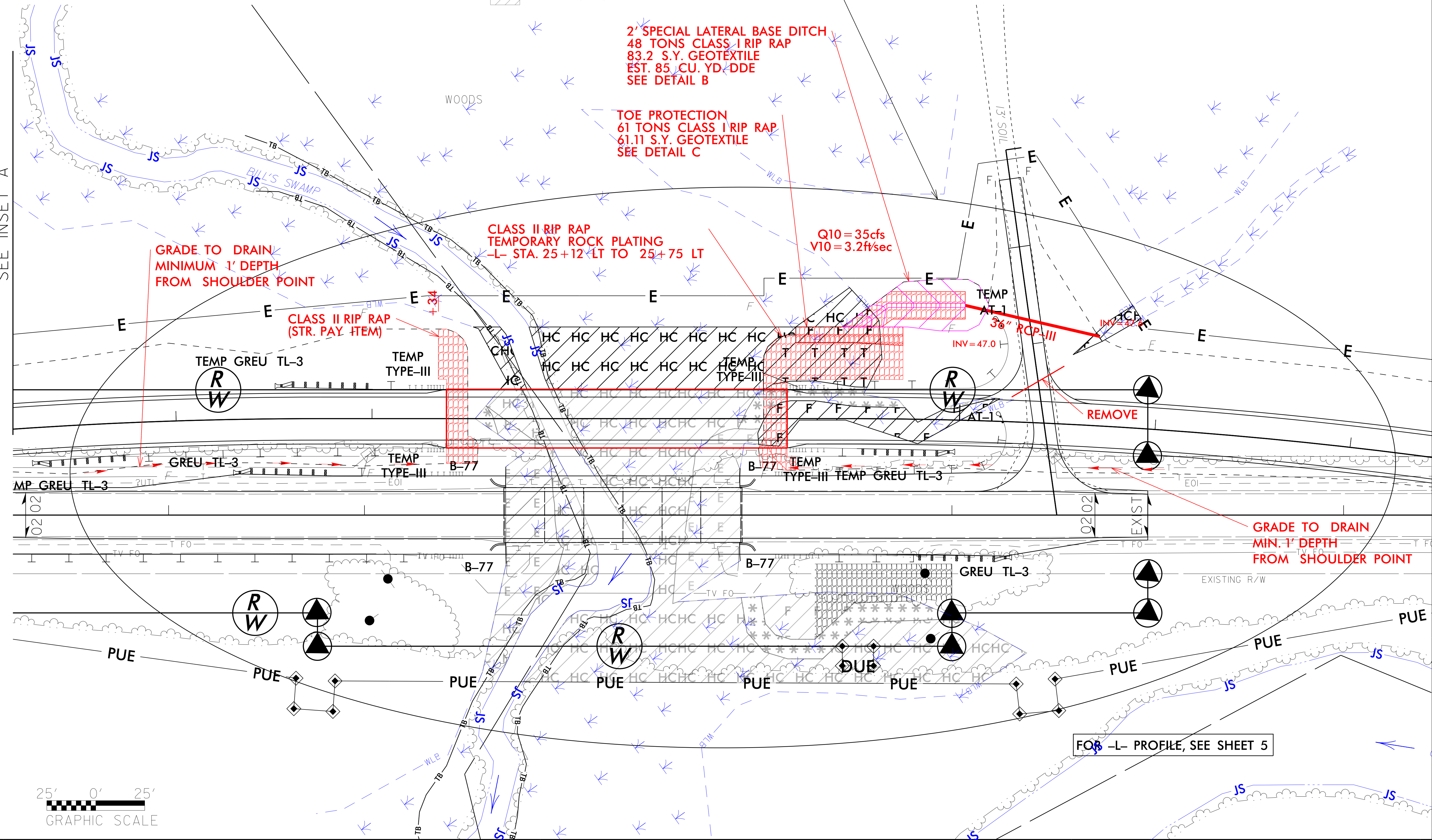
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- TEMPORARY FILL IN WETLAND
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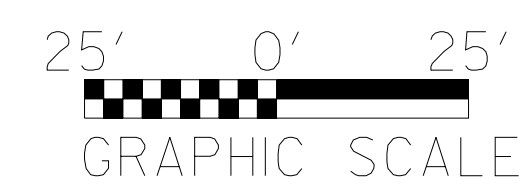
-L- ALIGNMENT IMPACTS

- FILL IN WETLAND
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- WETLAND EXCAVATION

MATCHLINE -L- STA. 17+41.00
SEE INSET A



REVISIONS



FOR -L- PROFILE, SEE SHEET 5

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DETOUR ALIGNMENT IMPACTS

PERMIT DRAWING
SHEET 6 OF 18



PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
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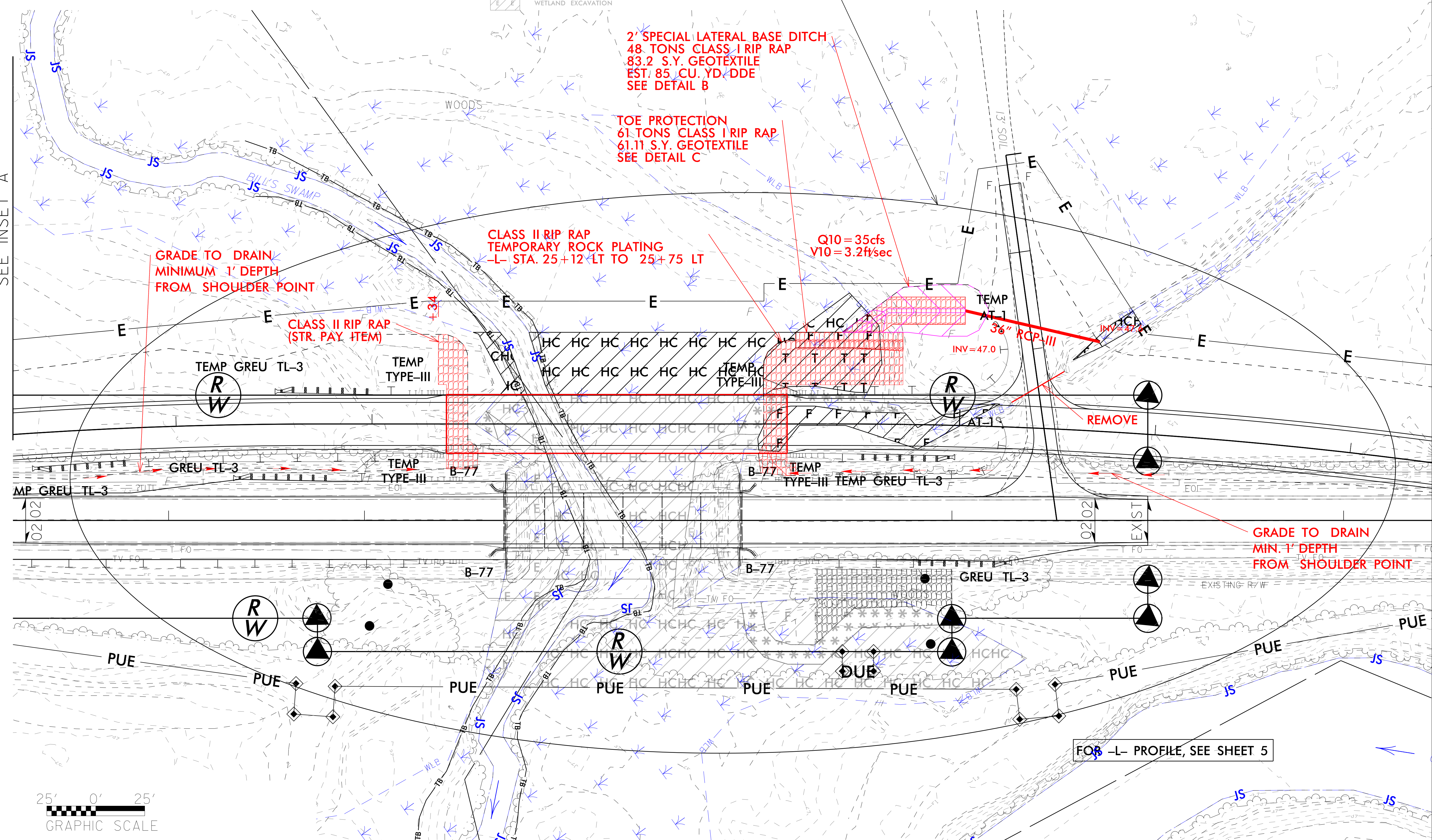
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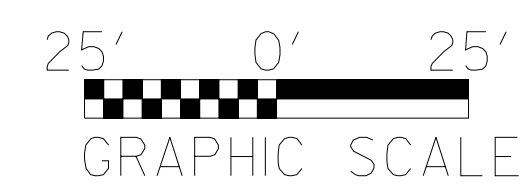
-L- ALIGNMENT IMPACTS

- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

MATCHLINE -L- STA. 17+41.00
SEE INSET A



REVISIONS



FOR -L- PROFILE, SEE SHEET 5

DETOUR ALIGNMENT IMPACTS

PERMIT DRAWING
SHEET 8 OF 18



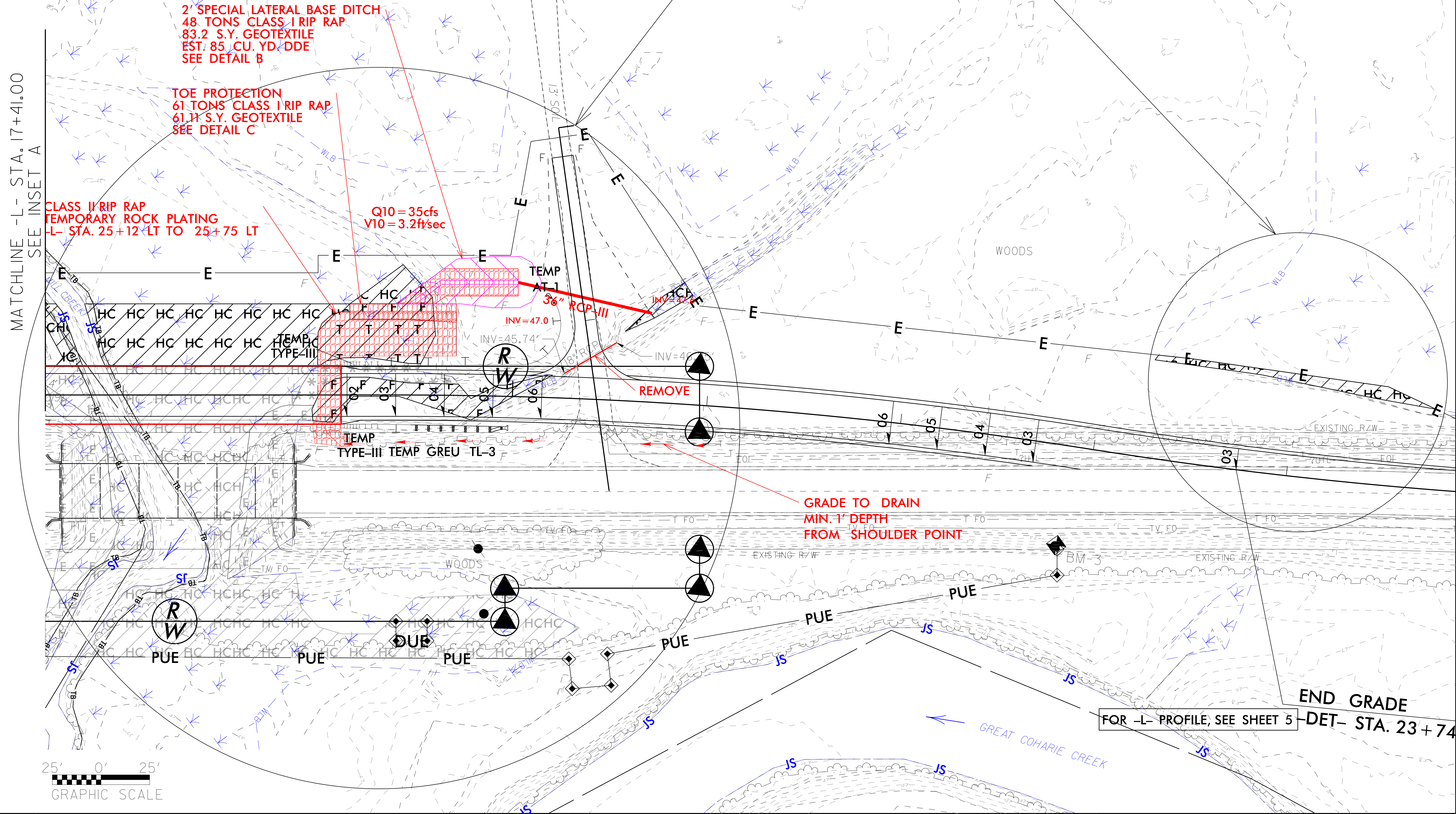
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- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION



MATCHLINE -L- STA. 17+41.00
SEE INSET A

2' SPECIAL LATERAL BASE DITCH
48 TONS CLASS I RIP RAP
83.2 S.Y. GEOTEXTILE
EST. 85 CU. YD. DDE
SEE DETAIL B

TOE PROTECTION
61 TONS CLASS I RIP RAP
61.11 S.Y. GEOTEXTILE
SEE DETAIL C

CLASS II RIP RAP
TEMPORARY ROCK PLATING
-L- STA. 25+12 LT TO 25+75 LT

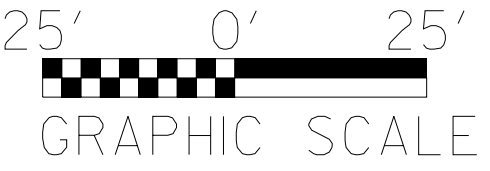
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V10 = 3.2ft/sec

TEMP
AT-1
3% RCP-III
INV = 47.0

TEMP
TYPE-III TEMP GREU TL-3

GRADE TO DRAIN
MIN. 1' DEPTH
FROM SHOULDER POINT

END GRADE
FOR -L- PROFILE, SEE SHEET 5 -DET- STA. 23+74



REVISIONS

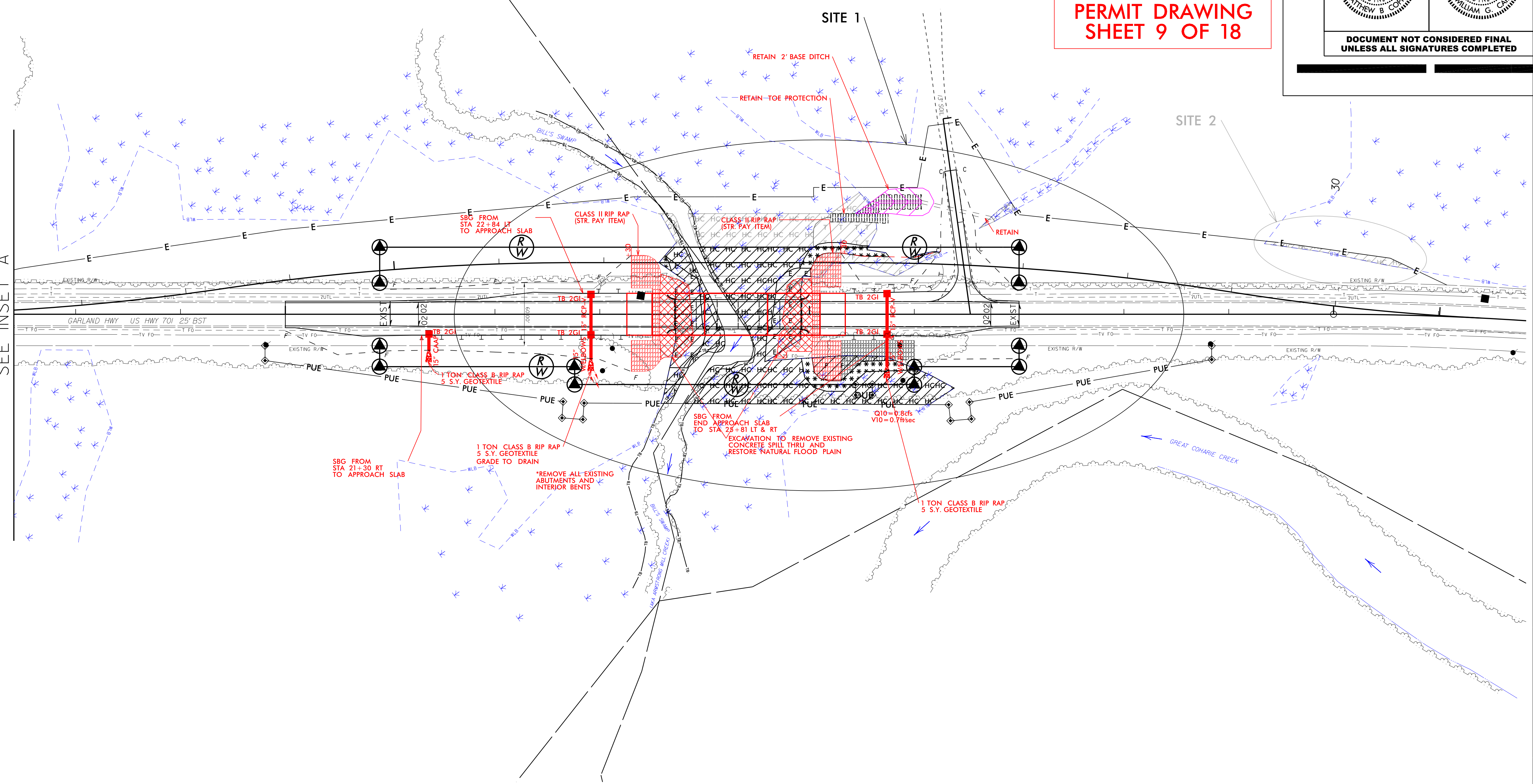
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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PERMIT DRAWING
SHEET 9 OF 18

-L- ALIGNMENT IMPACTS

MATCHLINE -L- STA. 17+41.00
SEE INSET A



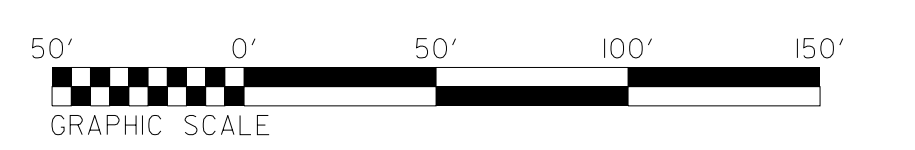
-L- ALIGNMENT IMPACTS

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DETOUR ALIGNMENT IMPACTS

- FILL IN WETLAND
- TEMPORARY FILL IN WETLAND
- HAND CLEARING (NON-GRUBBING)



FOR -L- PROFILE, SEE SHEET 5



REVISIONS

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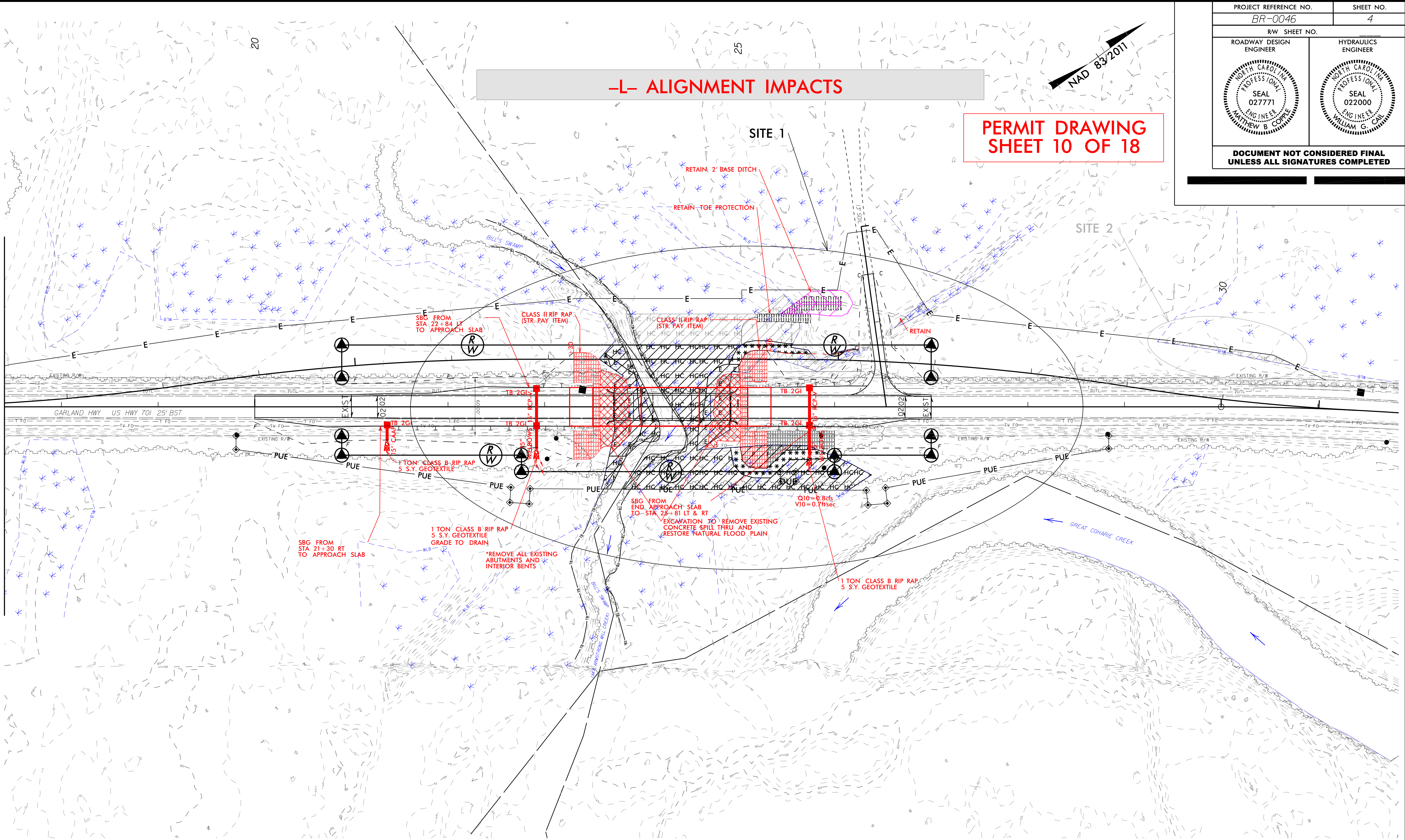
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 SEAL 027771 ENGINEER MATTHEW B. CORRIE	 SEAL 022000 ENGINEER WILLIAM G. CARR
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L- ALIGNMENT IMPACTS

PERMIT DRAWING
SHEET 10 OF 18

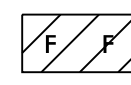
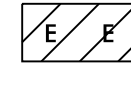

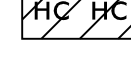


MATCHLINE -L- STA. 17+41.00
SEE INSET A



REVISIONS

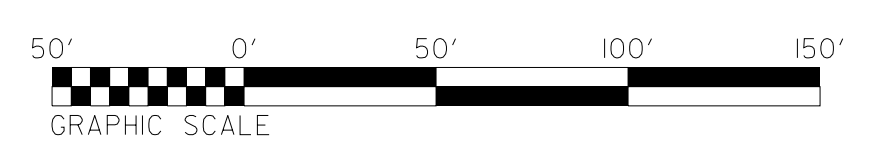
-L- ALIGNMENT IMPACTS

-  FILL IN WETLAND
-  WETLAND EXCAVATION
-  MECHANIZED CLEARING (GRUBBING)
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DETOUR ALIGNMENT IMPACTS

-  FILL IN WETLAND
-  TEMPORARY FILL IN WETLAND
-  HAND CLEARING (NON-GRUBBING)

FOR -L- PROFILE, SEE SHEET 5



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PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L- ALIGNMENT IMPACTS

PERMIT DRAWING SHEET 11 OF 18



-L- ALIGNMENT IMPACTS

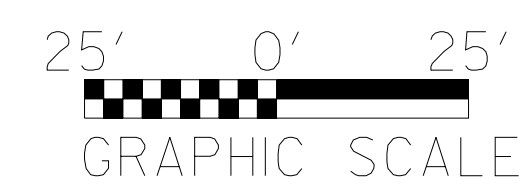
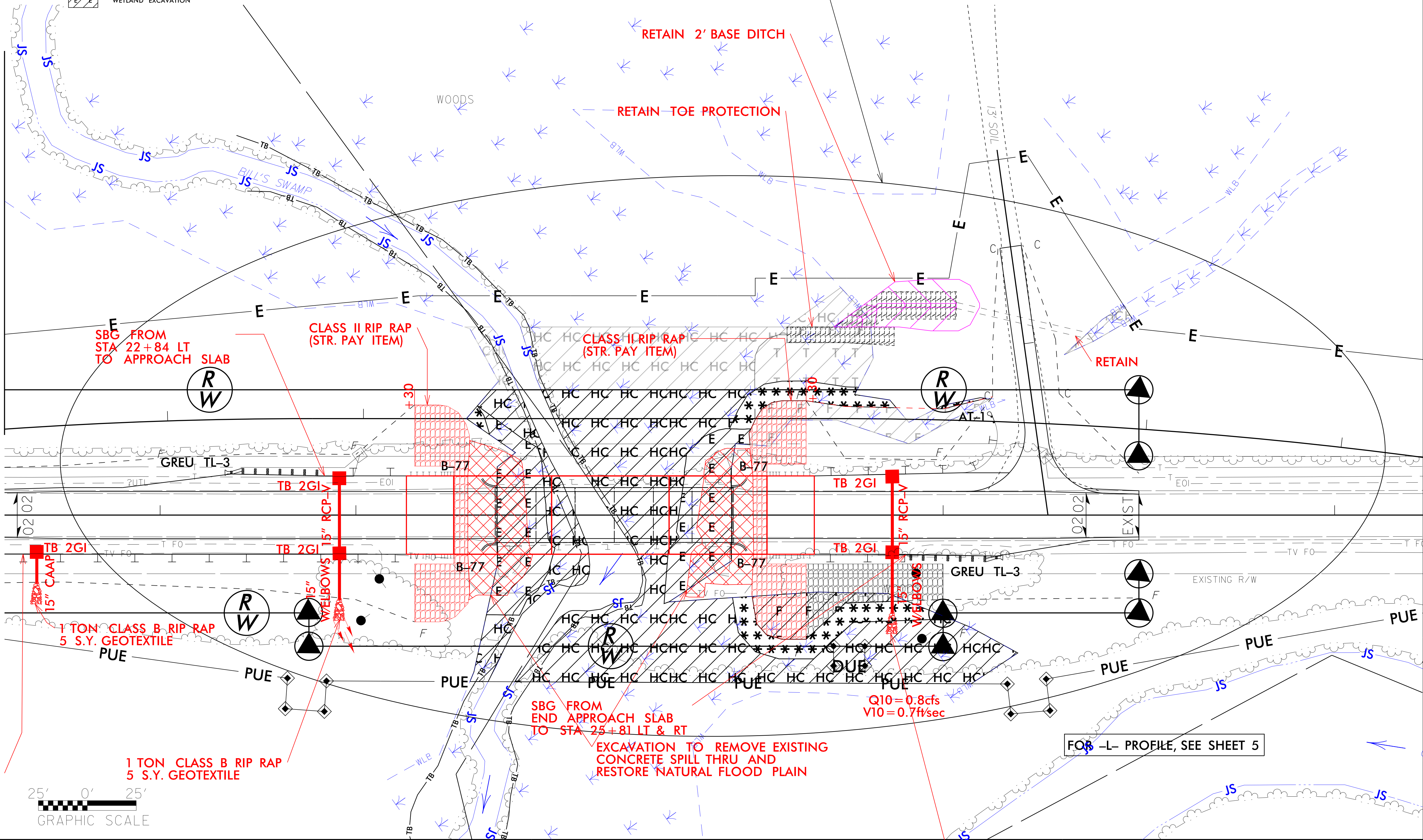
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

DETOUR ALIGNMENT IMPACTS

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- HAND CLEARING (NON-GRUBBING)

MATCHLINE -L- STA. 17+41.00
SEE INSET A

SITE 1



FOR -L- PROFILE, SEE SHEET 5

REVISIONS

7/30/2024
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-L- ALIGNMENT IMPACTS

PERMIT DRAWING
SHEET 12 OF 18



PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 022000 ENGINEER WILLIAM G. CARL
SEAL 027771 ENGINEER MATTHEW B. CORPSE	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L- ALIGNMENT IMPACTS

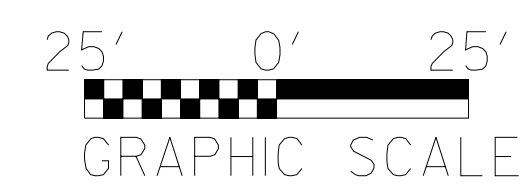
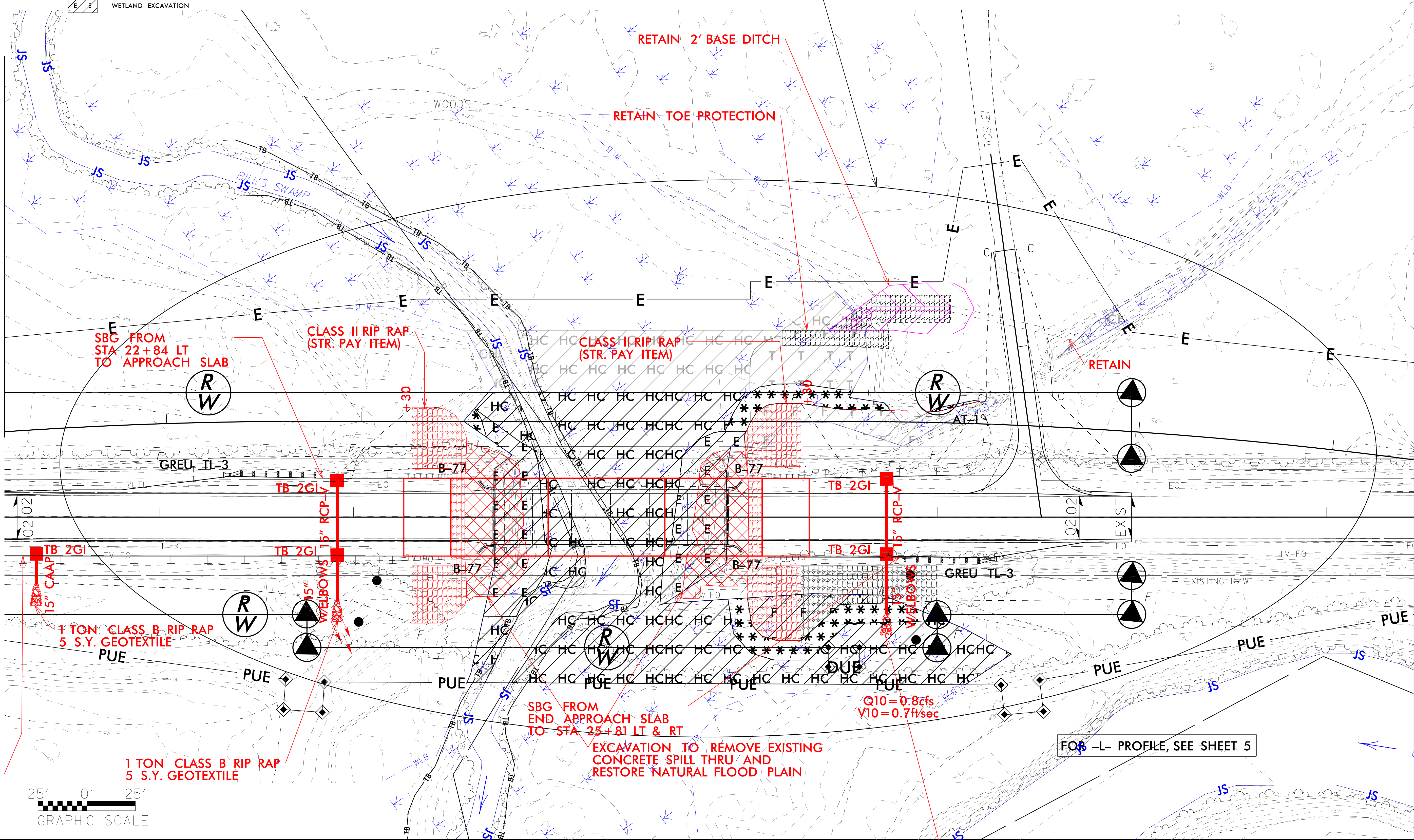
- FILL IN WETLAND
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

DETOUR ALIGNMENT IMPACTS

- FILL IN WETLAND
- TEMPORARY FILL IN WETLAND
- HAND CLEARING (NON-GRUBBING)

MATCHLINE -L- STA. 17+41.00
SEE INSET A

SITE 1



FOR -L- PROFILE, SEE SHEET 5

REVISIONS

7/30/2024
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**PERMIT DRAWING
SHEET 13 OF 18**

PROJECT REFERENCE NO. <i>BR-0046</i>	SHEET NO. <i>5</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

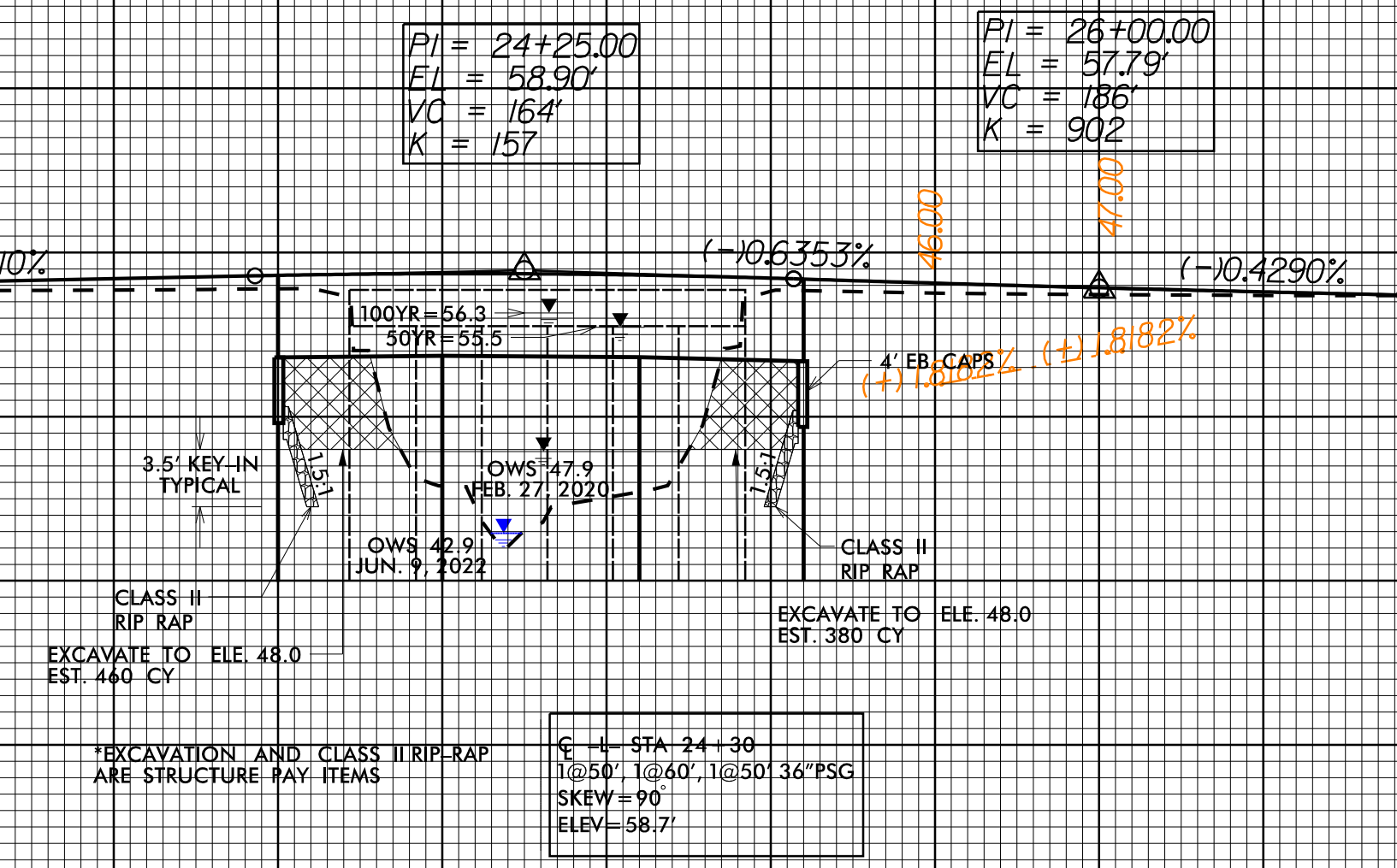
BEGIN MILL & OVERLAY
-L- STA. 20+00.00

BEGIN GRADE
-L- STA. 21+00.00
EL. 57.56'

END GRADE
-L- STA. 27+00.00
EL. 57.36'

BRIDGE 022 HYDRAULIC DATA

DESIGN DISCHARGE	= 10720	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 55.3	FT
BASE DISCHARGE	= 13170	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 56.1	FT
OVERTOPPING DISCHARGE	= 16000	CFS
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING ELEVATION	= 57.18*	FT
*OVERTOPPING ELEVATION = 56.8' @ -L- STA. 15+00		
DATE OF SURVEY	= 02-27-2020	
W.S. ELEVATION AT DATE OF SURVEY	= 47.9	FT



BM3 ELEVATION = 54.76'
N 388284 E 2190654
-L- STATION 28+83 28' RIGHT
SPIKE IN POWER POLE

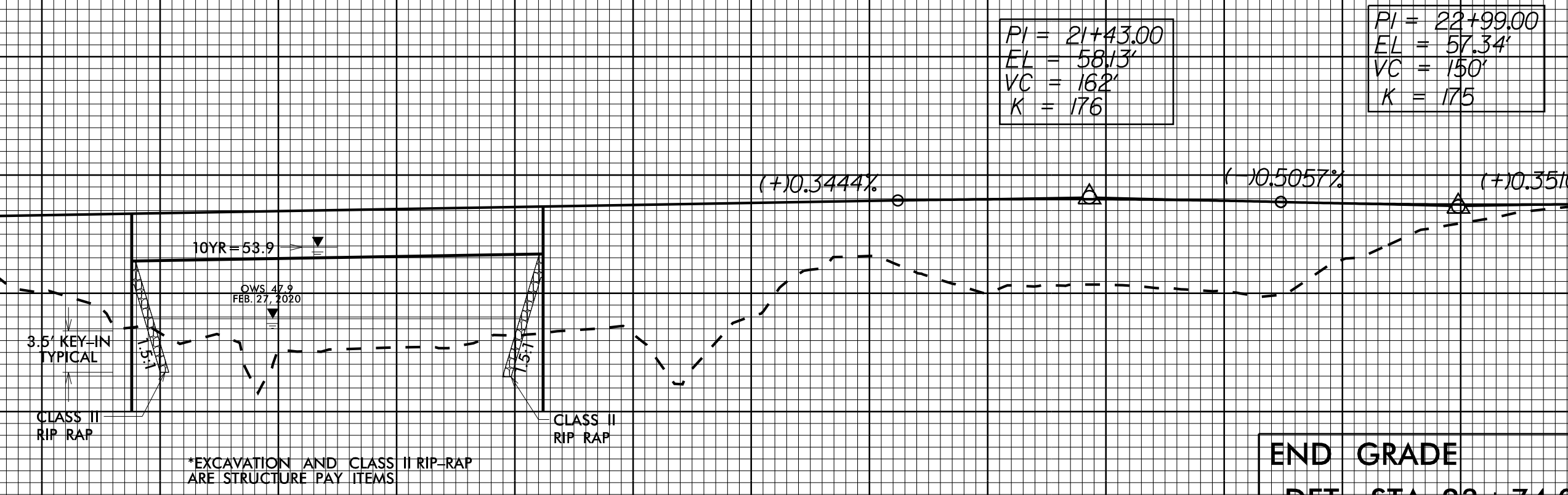
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

BEGIN GRADE
-DET- STA. 12+27.25
EL. 56.96'

END GRADE
-DET- STA. 23+74.05
EL. 57.60'

BRIDGE 022-DET HYDRAULIC DATA

DESIGN DISCHARGE	= 10720	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 53.9	FT
BASE DISCHARGE	= 13170	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 56.7	FT
OVERTOPPING DISCHARGE	= 17240	CFS
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING ELEVATION	= 57.9*	FT
*OVERTOPPING ELEVATION = 56.18' @ -DET- STA. 15+45		
DATE OF SURVEY	= 02-27-2020	
W.S. ELEVATION AT DATE OF SURVEY	= 47.9	FT

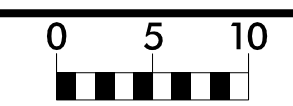


BM3 ELEVATION = 54.76'
N 388284 E 2190654
-L- STATION 28+83 28' RIGHT
SPIKE IN POWER POLE

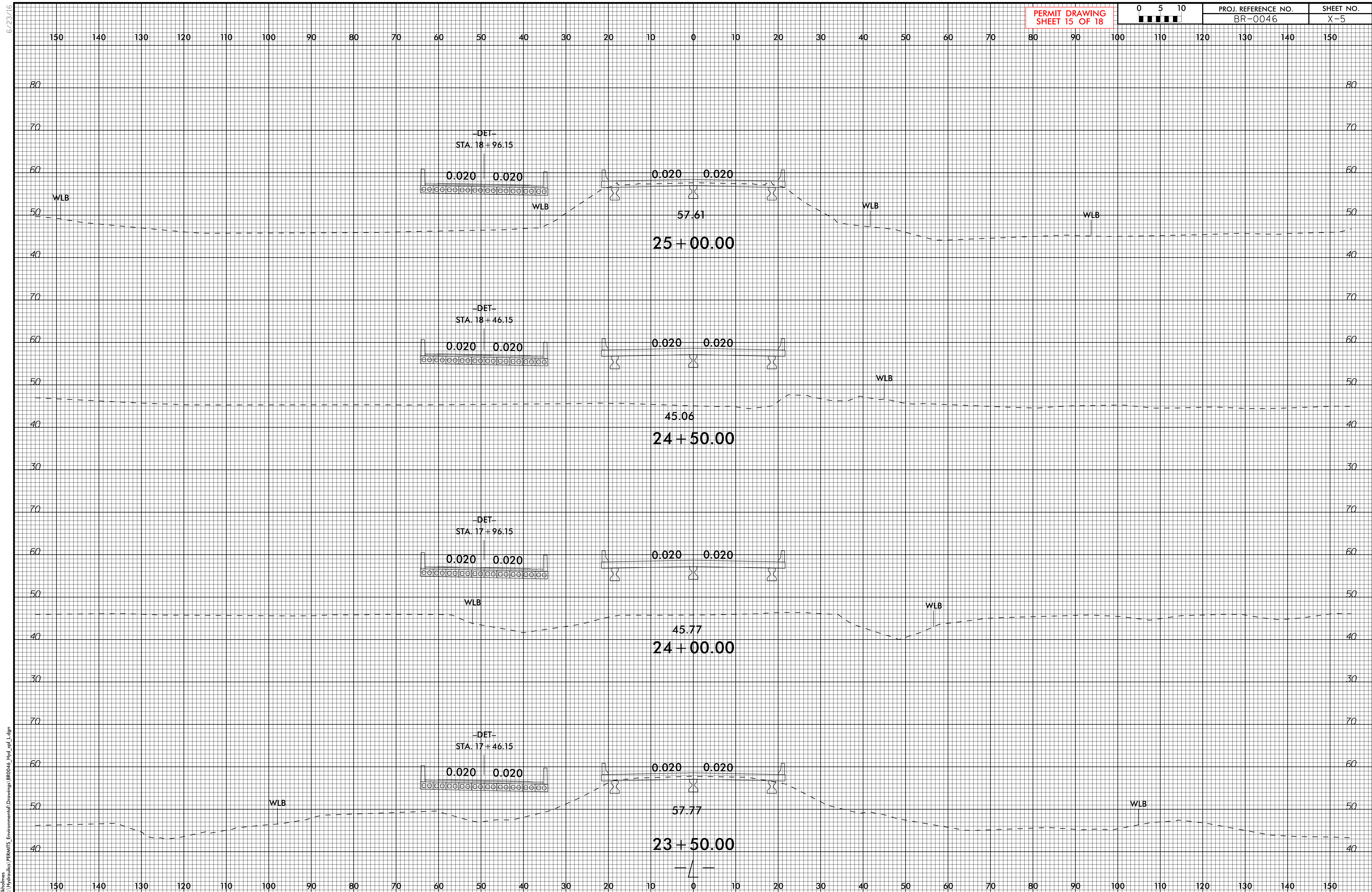
STRUCTURE EXCAVATION
FOR -L- ALIGNMENT, SEE SHEET 4
FOR -L- DET- ALIGNMENT, SEE SHEET 2B-1 & 2B-2

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

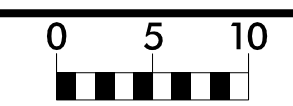
5/28/24
7/22/2024
alkhames
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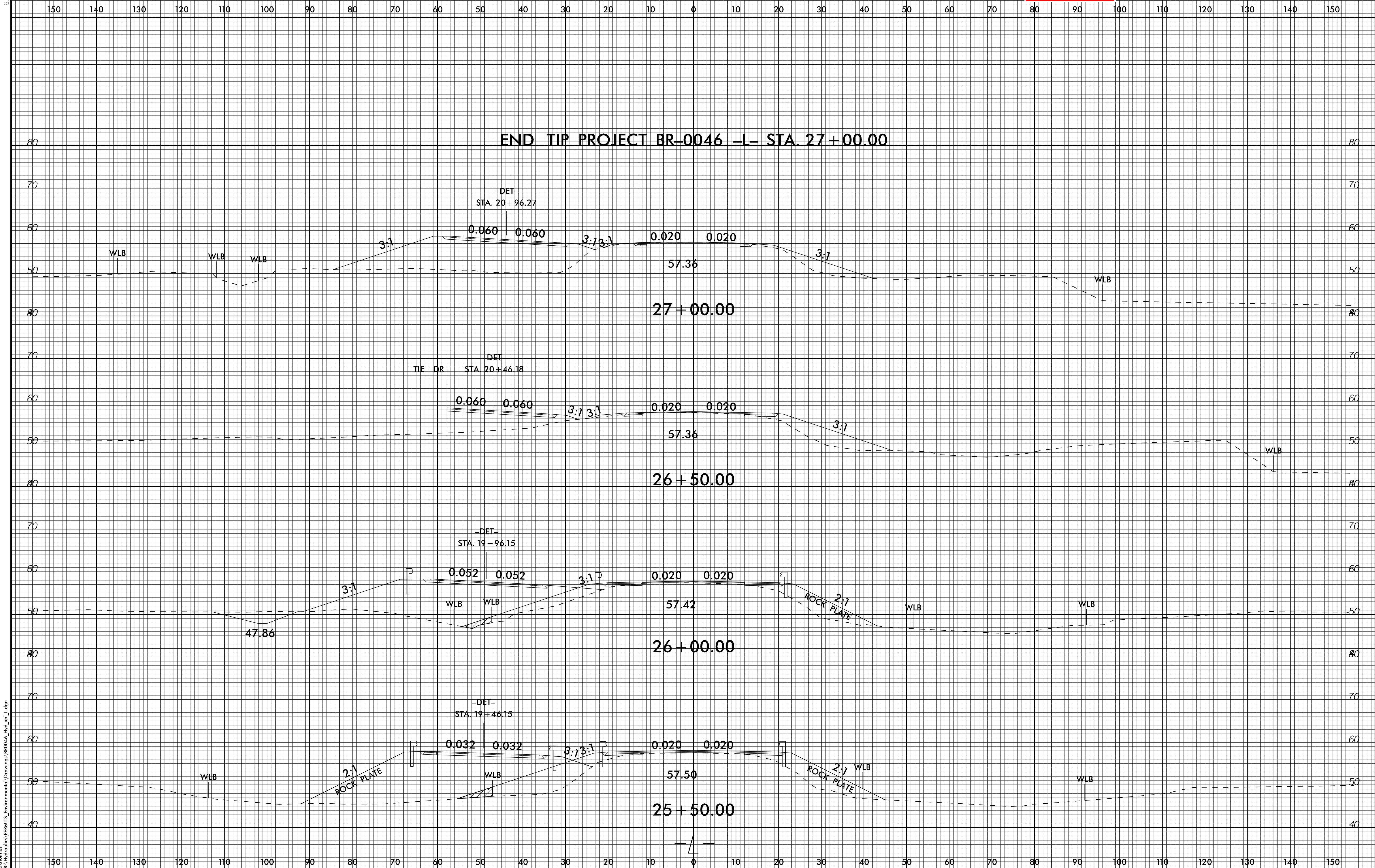
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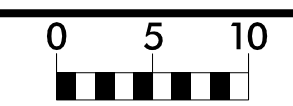
7/22/2024
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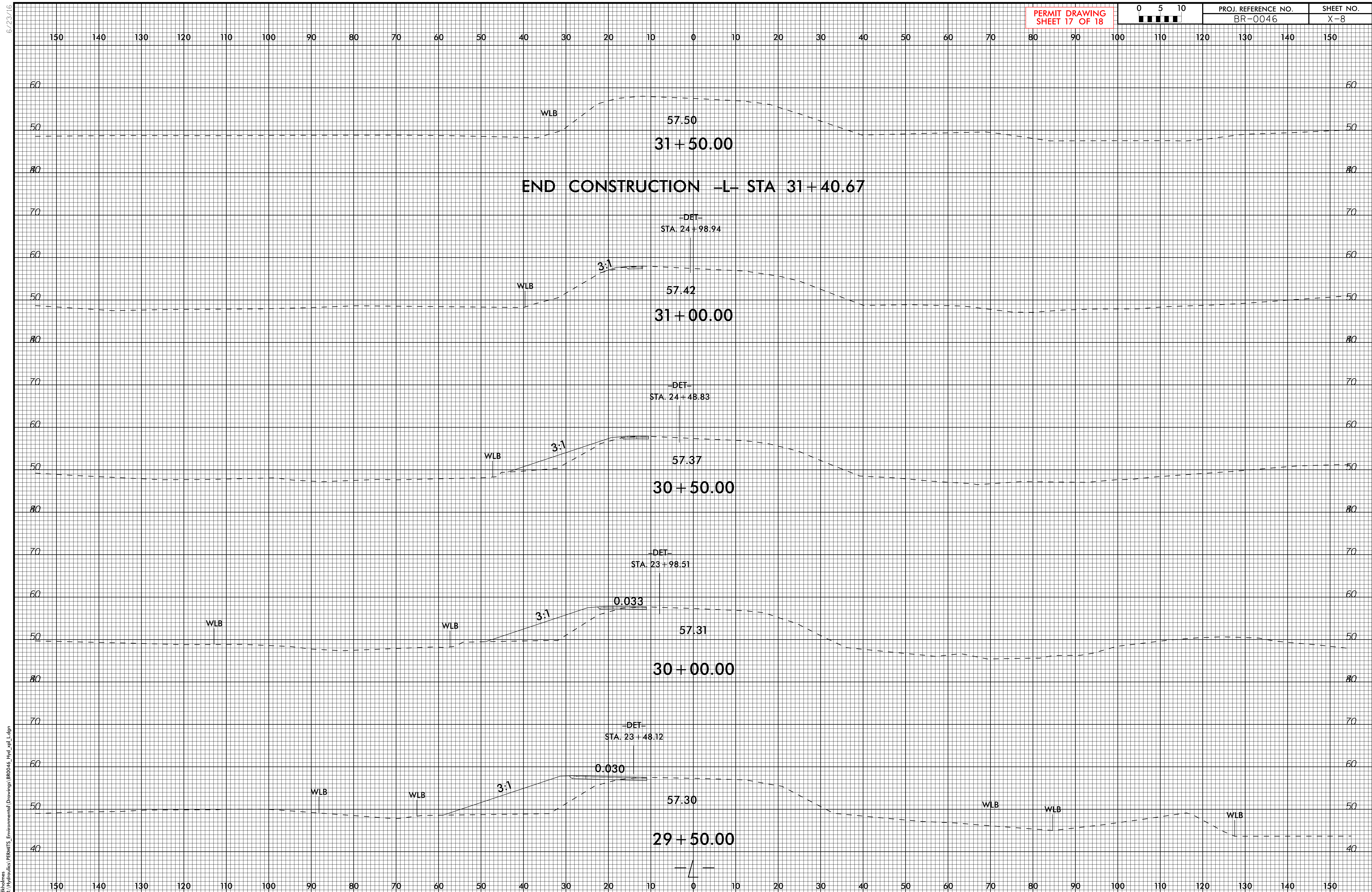
6/23/16



7/22/2024
BR0046_Hyd_xpl_L.dgn



6/23/16



7/22/2024
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