



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

October 31, 2013

U. S. Army Corps of Engineers
Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Ms. Amanda Fuemmeler
NCDOT Coordinator

Subject: **Modification of Section 404 Nationwide Permit 13 and 33 and Modification of Section 401 Water Quality Certification** for the proposed replacement of Bridge No. 215 over Mountain Creek on SR 1542 in Stanly County, Federal Aid Project No. BRZ-1542(7), Division 10, TIP No. B-5137, Debit \$240 from WBS 42296.1.1.

Reference: Section 404 Nationwide 13 and 33 Permit, Action ID 2012-00790 issued July 25, 2013.
Section 401 Water Quality Certification, DWQ No. 13-0718, issued July 23, 2013.

Dear Madam:

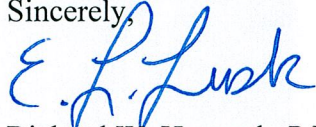
The proposed structure for the above referenced project has been changed from a two-span to a single-span bridge. Due to this design revision, the amount of stream bank stabilization at the outlet of the base ditch has been reduced from 8 to 7 linear feet.

A request to modify the above-referenced permits due to a substantial increase in stream bank stabilization was submitted on September 16, 2013 and a 401 Certification modification was issued on September 19, 2013. However, this modification request was rescinded due to the changes in bridge design resulting in impacts nearly identical to the original permitted design.

All other impacts remain as stated in the July 10, 2013 application and subsequent permits. The stream and wetland impacts for this project do not constitute loss of waters and do not require mitigation. Please see enclosed revised stormwater management plan, permit drawings and design sheets.

A copy of this permit modification request and its distribution list will be posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental/Pages>. If you have any questions or need additional information, please call Erin Cheely at (919) 707-6108.

Sincerely,

for 

Richard W. Hancock, P.E., Manager

Project Development and Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released September 2011)

Project/TIP No.: 42296.1.1 B-5137

County(ies): Stanly

Page 1 of 1

General Project Information

Project No.:	42296.1.1 B-5137	Project Type:	Bridge Replacement	Date:	3/28/2013
NCDOT Contact:	Galen Cail	Contractor / Designer:			
Address:	1020 Birch Ridge Dr. Raleigh, NC 27610	Address:			
	Phone: 919.707.6711		Phone:		
	Email: gcail@ncdot.gov		Email:		
City/Town:	Albemarle	County(ies):	Stanly		
River Basin(s):	Yadkin-Pee Dee	CAMA County?	No		
Primary Receiving Water:	Mountain Creek	NCDWQ Stream Index No.:	13-5-(0.7)		
NCDWQ Surface Water Classification for Primary Receiving Water	Primary:	Water Supply IV (WS-IV)	Class C		
	Supplemental:	None			
Other Stream Classification:	None				
303(d) Impairments:	None				
Buffer Rules in Effect	N/A				

Project Description

Project Length (lin. Miles or feet):	500 ft.	Surrounding Land Use:	Residential
	Proposed Project		Existing Site
Project Built-Upon Area (ac.)	0.27 ac.	0.25 ac.	
Typical Cross Section Description:	2-12' lanes with 6' shoulders (4' paved) Bridge will be 2-12' lanes with 4.9' shoulders		
Average Daily Traffic (veh/hr/day):	Design/Future: 2300/2300	Existing:	1500(2012)

General Project Narrative: The project consists of replacing Bridge #215 on SR 1542 (Ridge Rd.) over Mountain Creek. The approach work will consist of raising the existing roadway grade and providing grass shoulders and guardrails. Bridge #215 existing 1 span structure (46' total length) will be replaced with a 1 span (1 @ 80' -- Box Beam bridge).

Best Management Practices:

- Promotion of sheet flow and infiltration with grass shoulders.
- Drainage systems outlet to rip rap pad.
- Removal of existing road fill under bridge will improve bridge conveyance and reduce the bridge opening velocities.

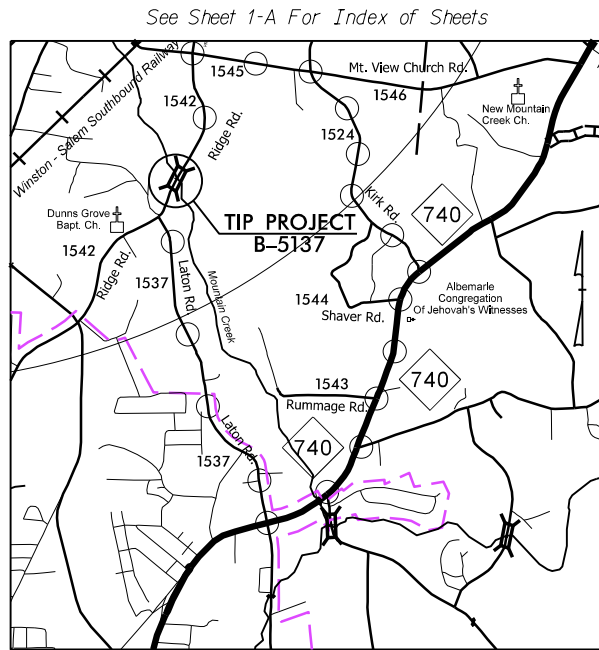
Revised 10/9/13

References

09/08/99

TIP PROJECT: B-5137

CONTRACT:



OFFSITE DETOUR 
THIS PROJECT IS NOT WITHIN
ANY MUNICIPAL BOUNDARIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STANLY COUNTY

LOCATION: REPLACE BRIDGE NO. 215 OVER MOUNTAIN CREEK
ON SR 1542 (RIDGE RD.)

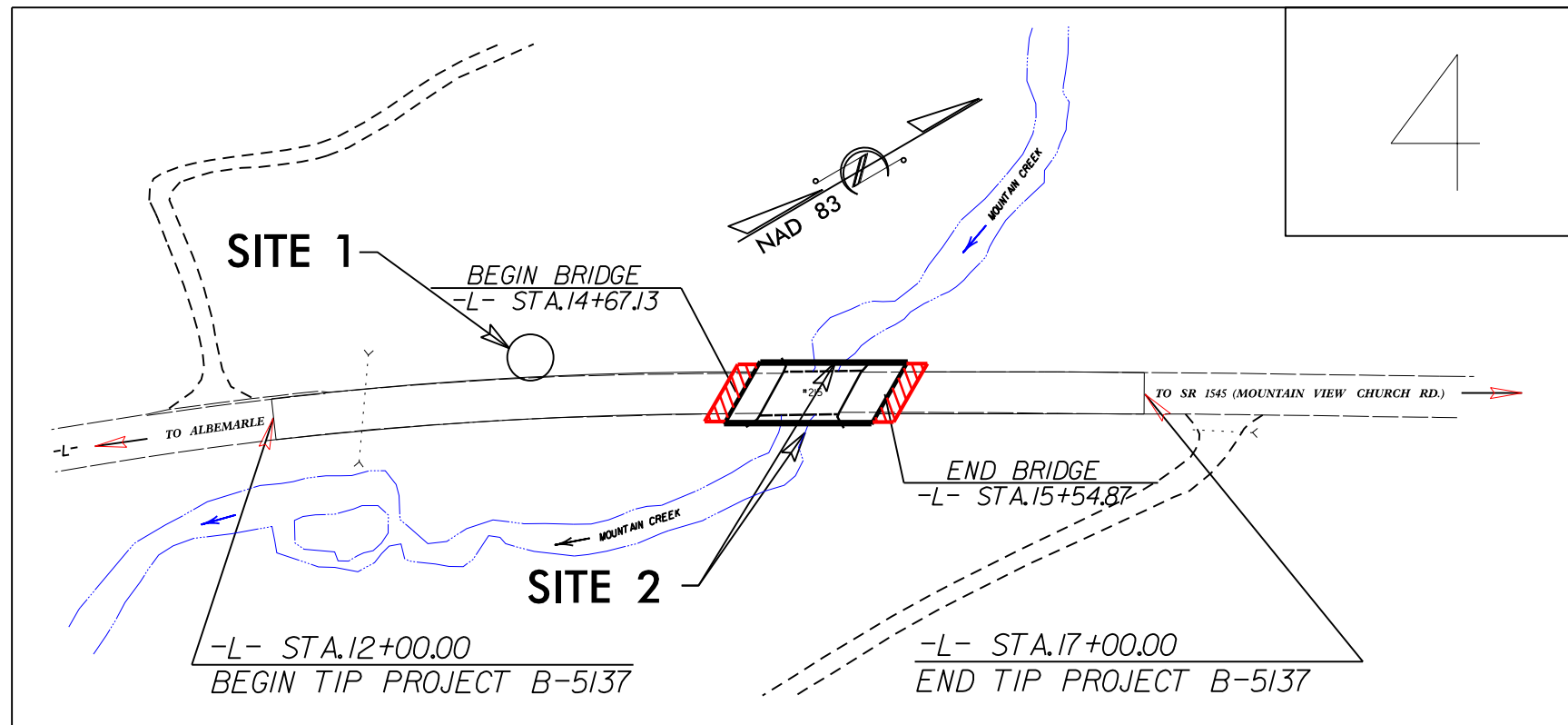
TYPE OF WORK: GRADING, PAVING, DRAINAGE & STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5137	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42296.1.1	BRZ-1542(7)	P.E.	
42296.2.1	BRZ-1542(7)	RW & UTIL.	

PERMIT DRAWING SHEET 1 OF 7

Revised 10/9/13

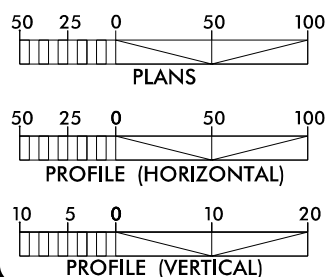
WETLAND AND SURFACE WATER IMPACTS PERMIT



CLEARING LIMITS ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD III

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 1504
ADT 2035 = 2300
DHV = 60 %
D = 10 %
T = 5 % *
V = 50 MPH
* TTST = 1% DUAL 4%
FUNC CLASS =
RURAL COLLECTOR
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-5137 = 0.079 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5137 = 0.016 MILES
TOTAL LENGTH OF TIP PROJECT B-5137 = 0.095 MILES

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

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 17, 2012

LETTING DATE:
OCTOBER 15, 2013

G. E. BREW, PE
PROJECT ENGINEER

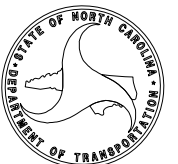
W. T. BEST
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: _____ P.E.



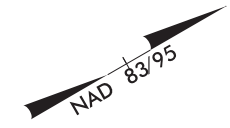
4/22/2013
Jddvson
R:\Hydraulics\Permits_Environmental Drawings
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\$\$\$\$\$DATE\$\$\$\$\$
\$\$\$\$\$USER\$\$\$\$\$

REVISIONS

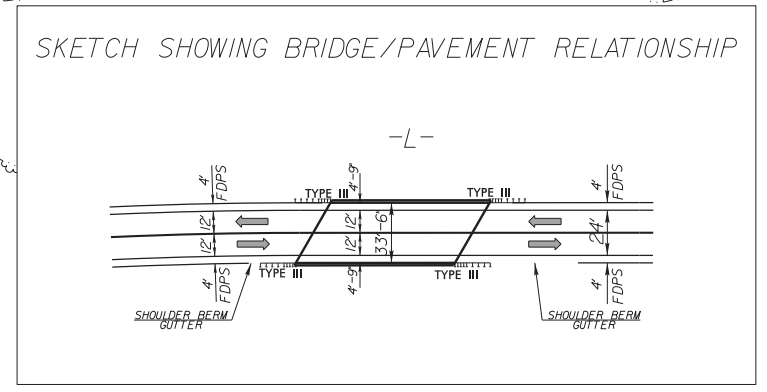
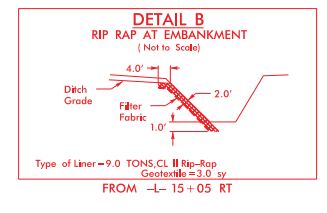
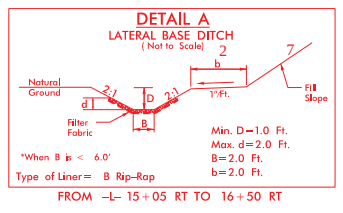
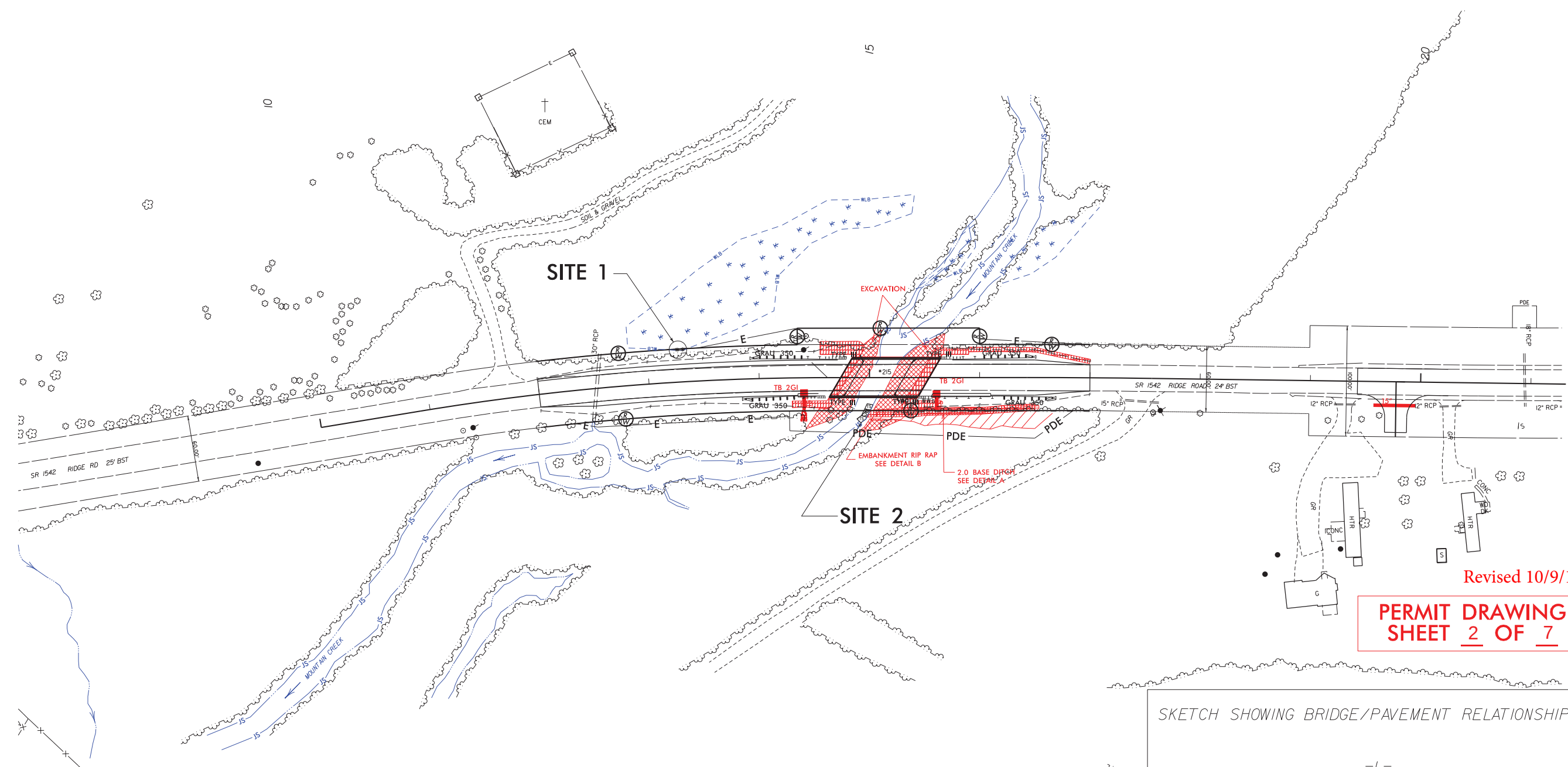
B/W Rev-Corrected off set distance for proposed R/W Lt and Rt of Sta. 17+00.00 -L- WTB 11/29/12

8/17/99

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES MECHANIZED CLEARING

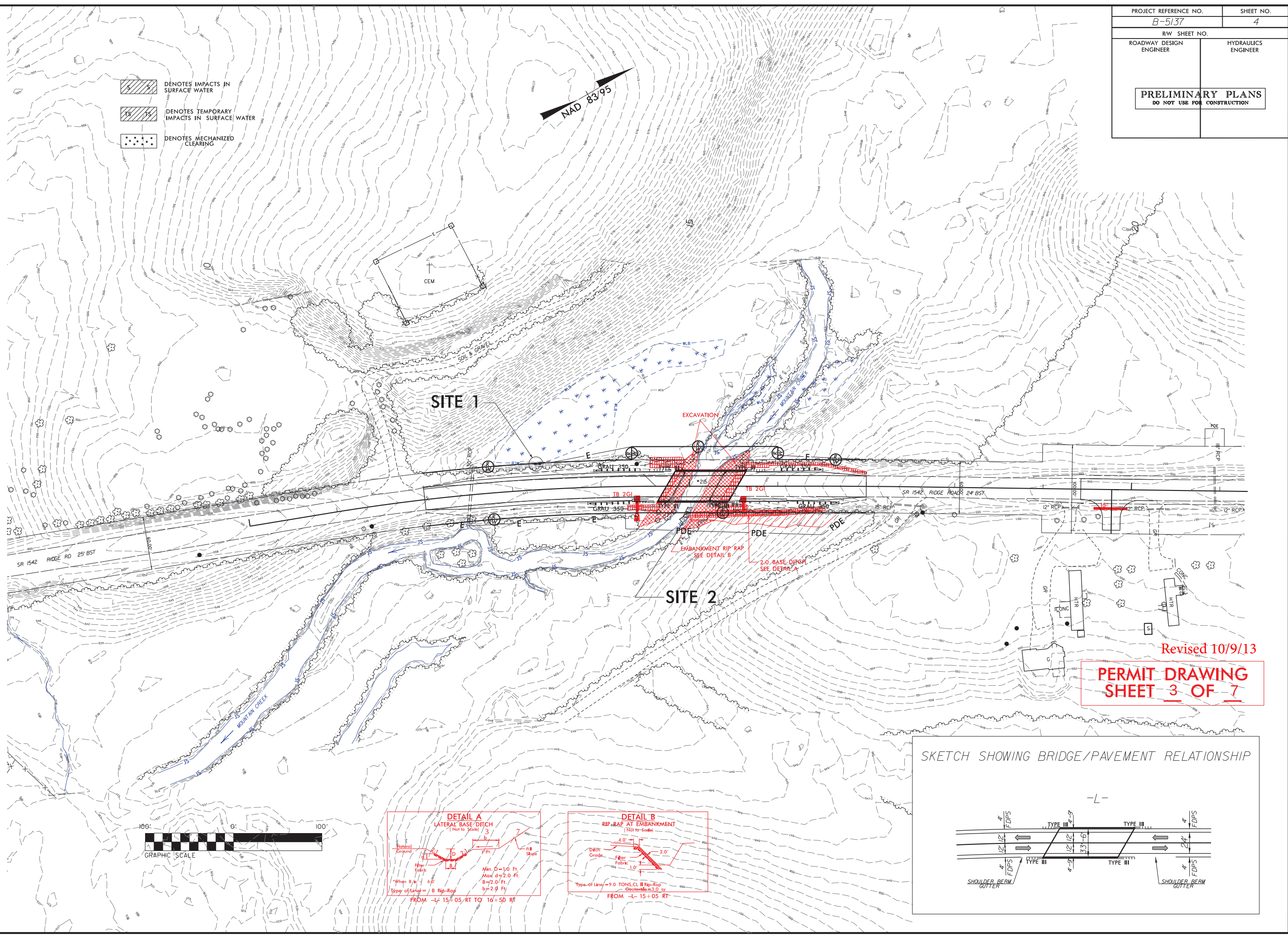


PROJECT REFERENCE NO.	SHEET NO.
B-5137	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



Revised 10/9/13

PERMIT DRAWING
SHEET 2 OF 7



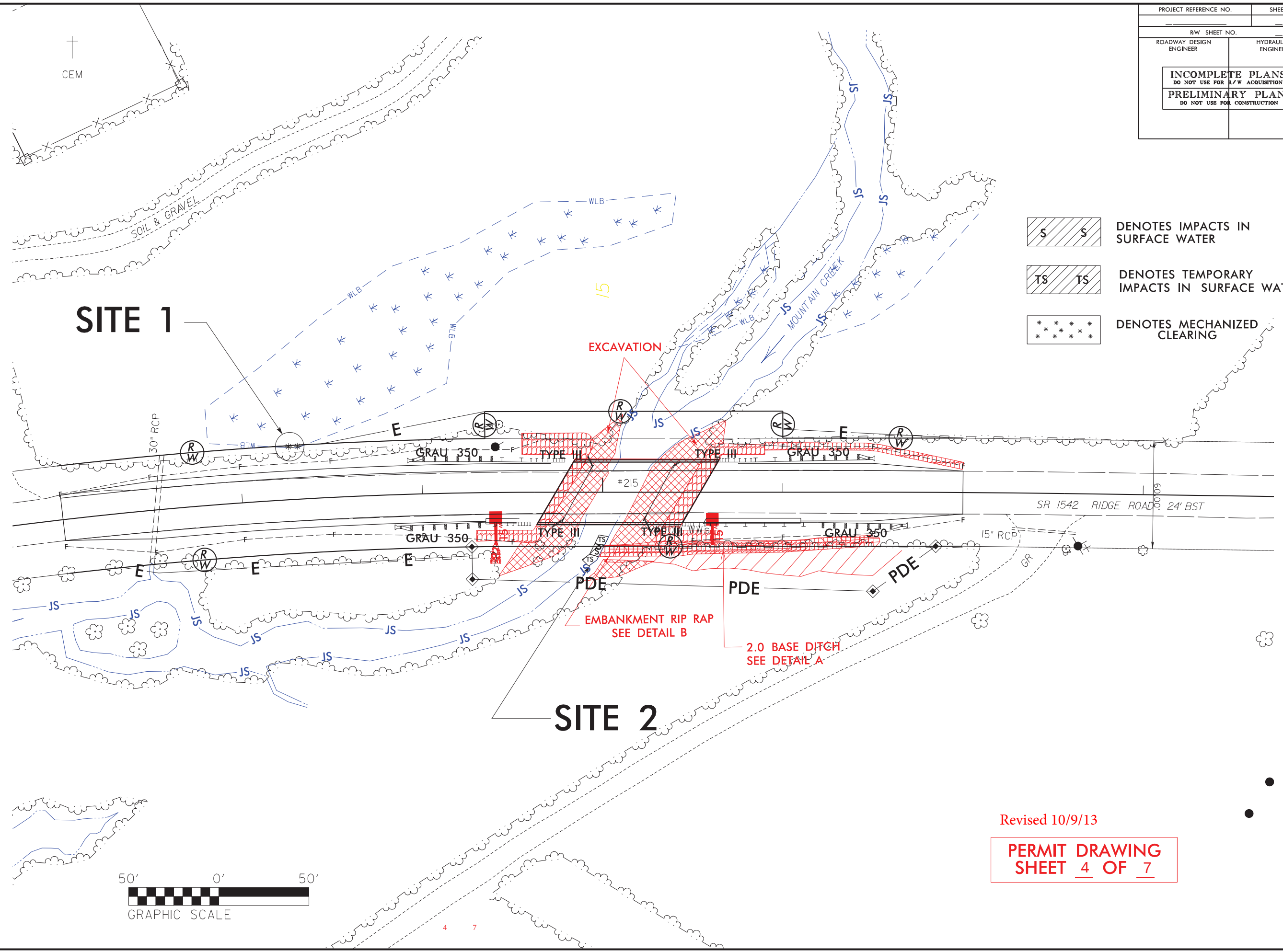
Revised 10/9/13

PERMIT DRAWING

SHEET 3 OF 7

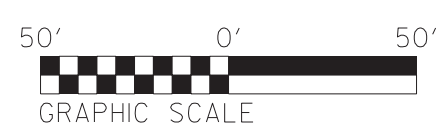
8/17/99

4/2/2013
Idlawson
R:\Hydraulics\Permits\Environmental\Drawing

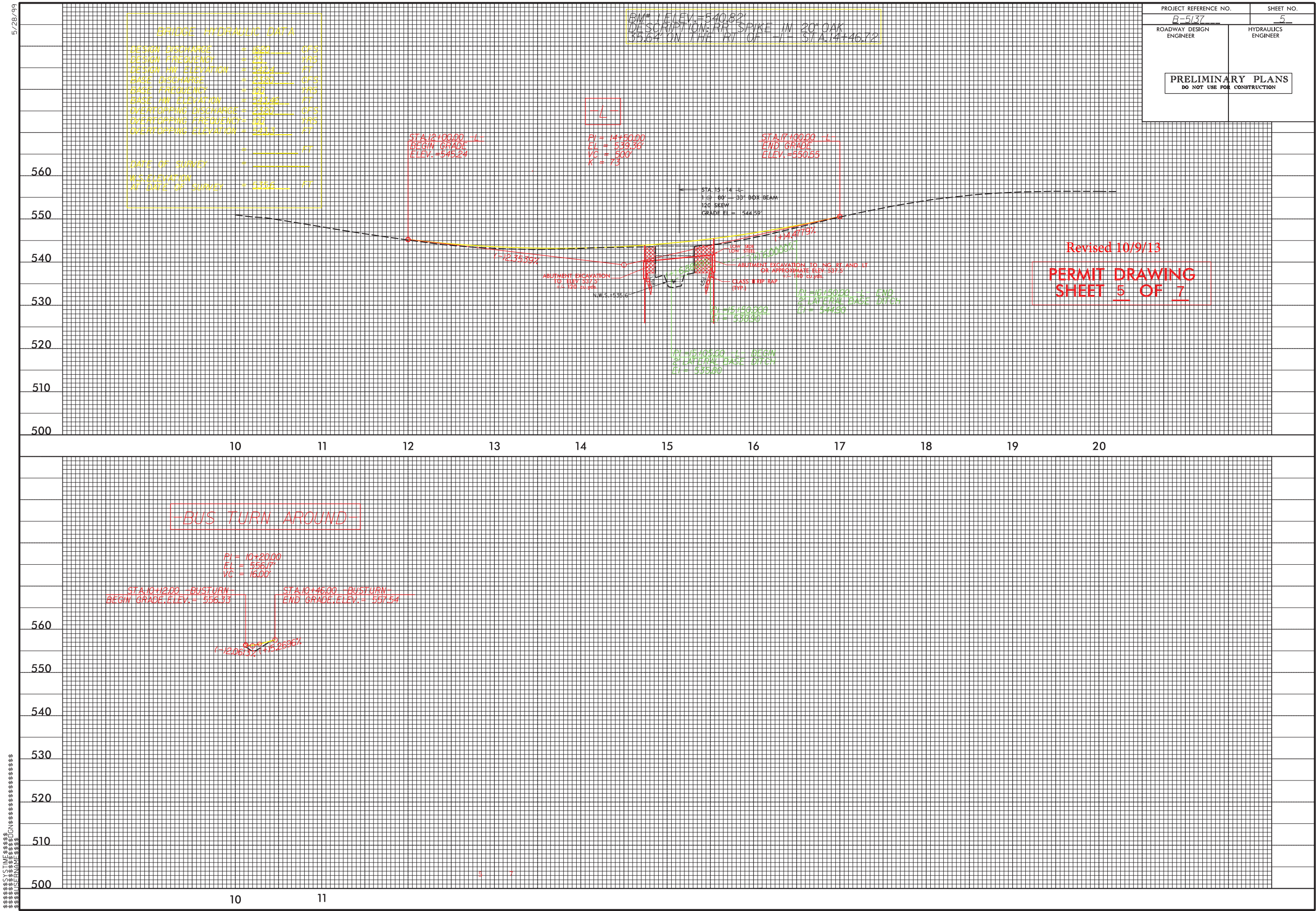


PROJECT REFERENCE NO.	SHEET NO.
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES MECHANIZED CLEARING

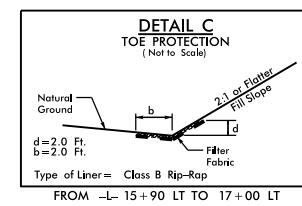
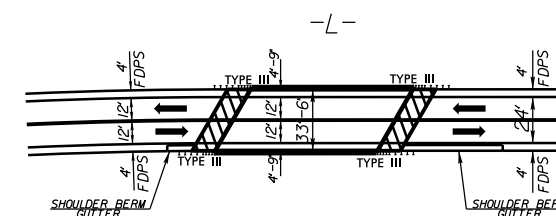


Revised 10/9/13
PERMIT DRAWING
SHEET 4 OF 7



WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	13+30 Lt.	Fill				<.01						
2	15+00 Rt.	Bank Stabilization						<.01	<.01	7	10	
TOTALS:						<.01		<.01	<.01	7	10	

SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP



5/28/99

BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 1620	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 542.4	FT
BASE DISCHARGE	= 2320	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 543.46	FT
OVERTOPPING DISCHARGE	= 2320	CFS
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING ELEVATION	= 543.3	FT
DATE OF SURVEY	=	FT
W.S.ELEVATION AT DATE OF SURVEY	= 535.6	FT

BM# 1 ELEV.=540.82'
DESCRIPTION: RR SPIKE IN 20" OAK
35.64' ON THE RT OF -L- STA.14+46.72

PROJECT REFERENCE NO.	SHEET NO.
B-5137	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Revised 10/16/13	

560

550

540

530

520

510

500

10

11

12

13

14

15

16

17

18

19

20

BUS TURN AROUND

PI = 10+20.00
EL = 556.17
VC = 16.00'

STA.10+12.00 -BUS TURN-
BEGIN GRADE ELEV.= 556.33

STA.10+46.00 -BUS TURN-
END GRADE ELEV.= 557.54

1-12.0613%
1-15.2696%

560

550

540

530

520

510

500

10

11