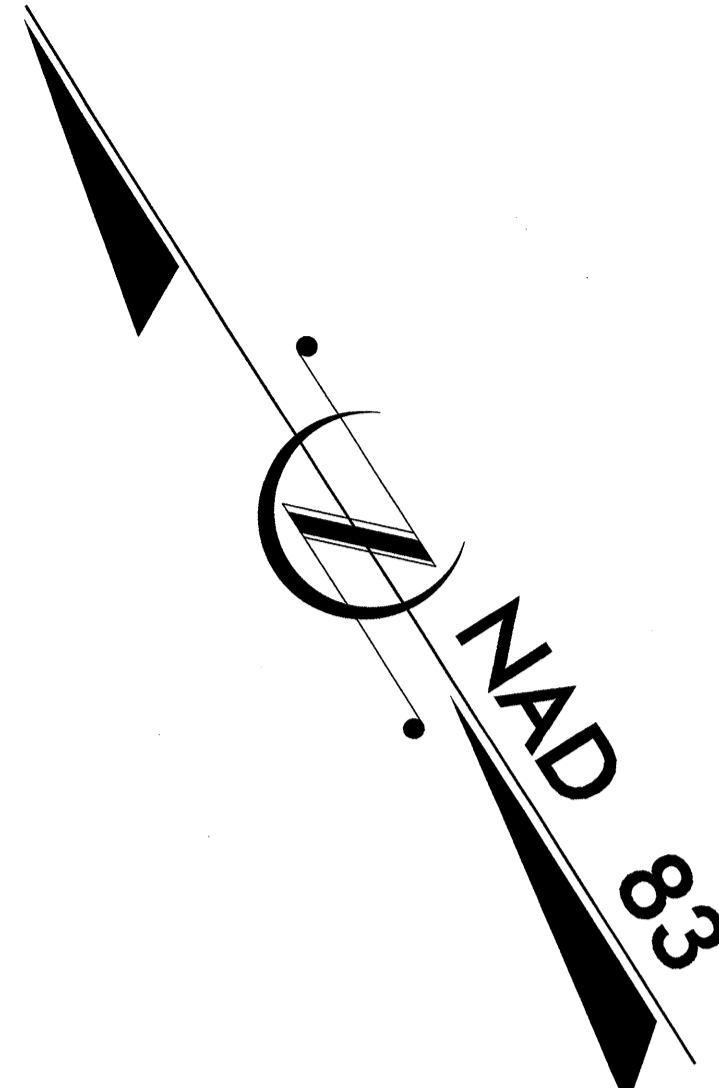


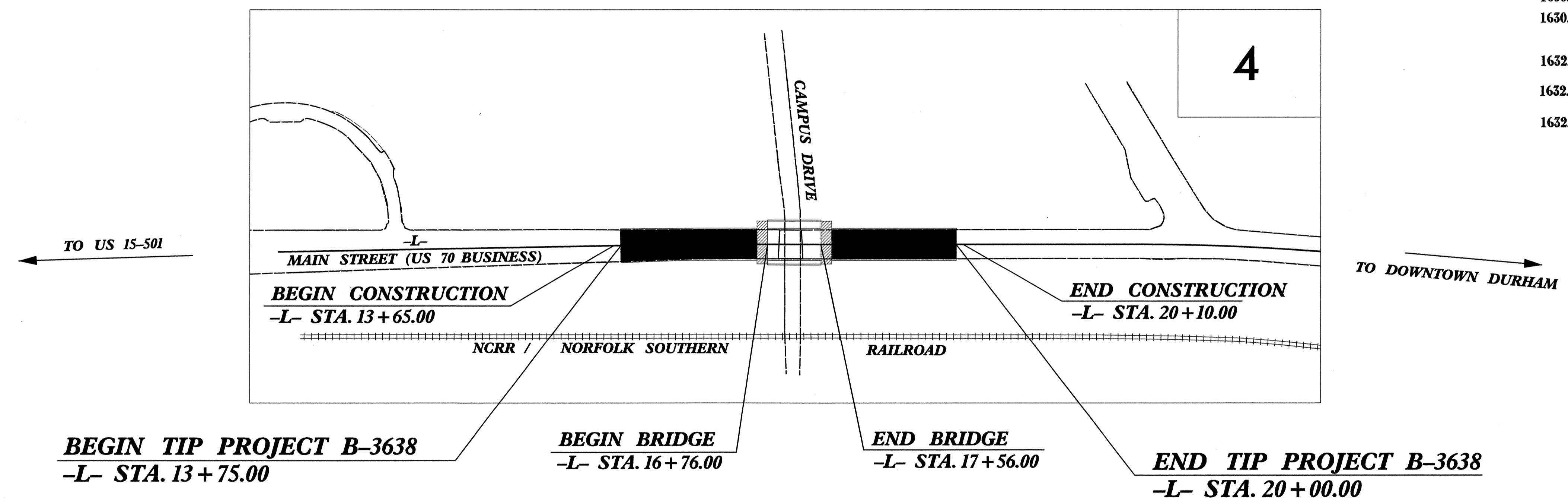
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3638	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: B-3638



STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
DURHAM COUNTY

**LOCATION: BRIDGE NO. 316 OVER CAMPUS DRIVE
 ON US 70 BUSINESS
 TYPE OF WORK: GRADING, PAVING, DRAINAGE
 & STRUCTURE**



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	⊗
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
1633.02	Temporary Rock Silt Check Type-B	▶
	Wattle / Coir Fiber Wattle	⌒
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	⌒
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊕
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊕
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.

THIS PROJECT HAS
 BEEN DESIGNED TO
 SENSITIVE WATERSHED
 STANDARDS.

GRAPHIC SCALE

0
 PLANS

0
 PROFILE (HORIZONTAL)

0
 PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
 WITH THE REGULATIONS SET FORTH BY THE
 NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
 NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

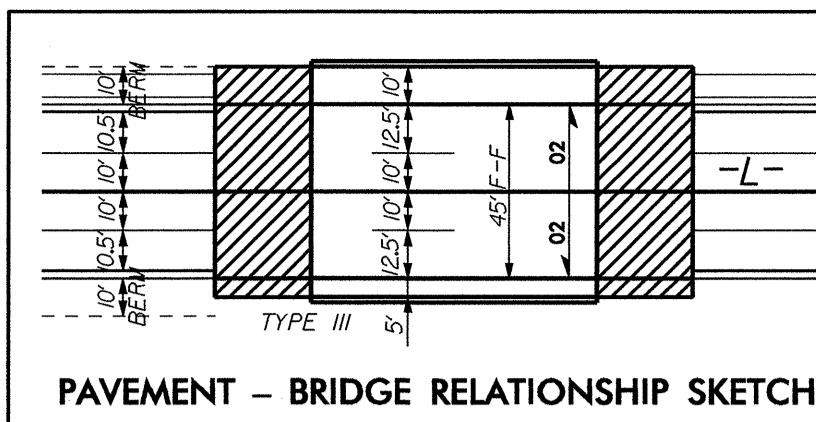
PROJECT REFERENCE NO. <i>B-3638</i>	SHEET NO. <i>EC-2</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO. B-3638	SHEET NO. EC-03/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

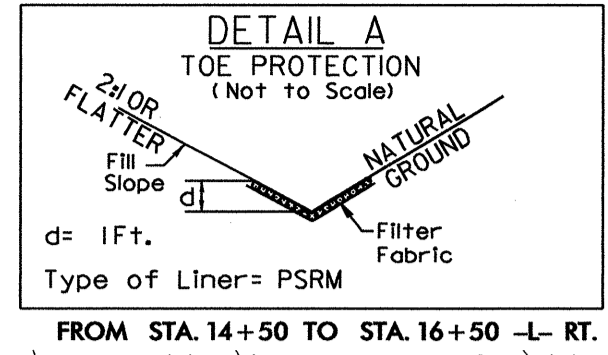
-L-		
PI Sta 14+27.68 Δ = 1'00" 48.7" (RT) D = 1'02" 16.7" L = 97.65' T = 48.82' R = 5,520.00'	PI Sta 18+37.21 Δ = 1'10" 26.3" (LT) D = 1'02" 16.7" L = 113.0' T = 56.55' R = 5,520.00'	PI Sta 19+50.31 Δ = 1'10" 26.3" (RT) D = 1'02" 16.7" L = 113.0' T = 56.55' R = 5,520.00'



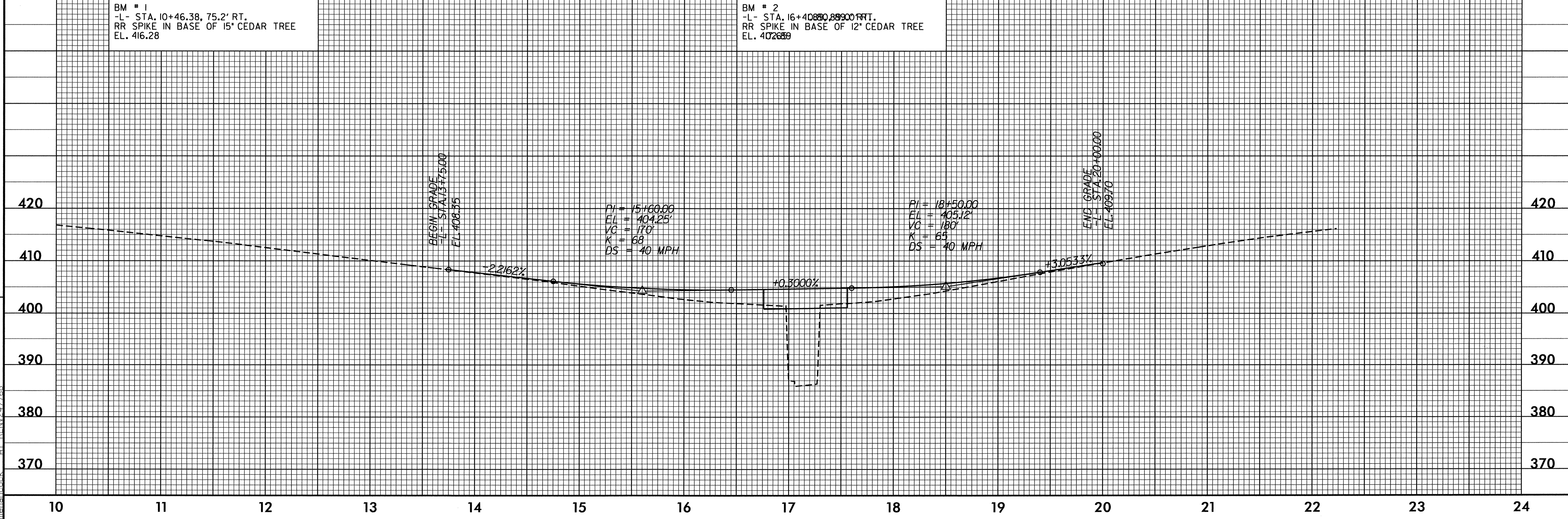
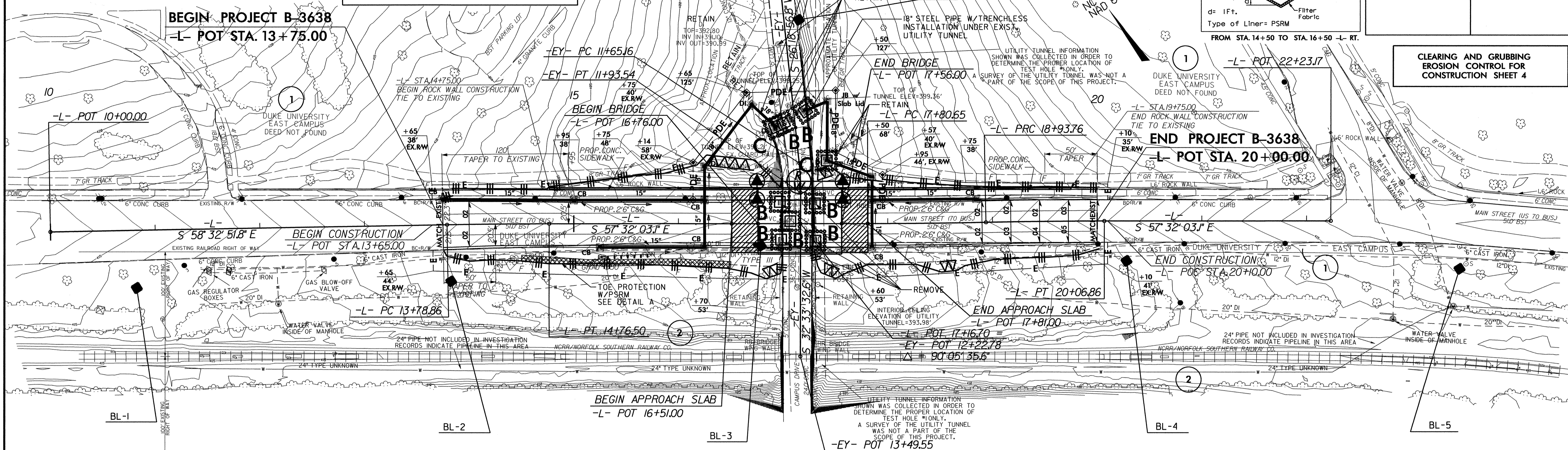
INSTALL WHEELCHAIR RAMP AND CURB CUT AT EXISTING CROSSWALK. SALVAGE GRANITE CURBSTONES FOR RETENTION BY DUKE UNIVERSITY.

-EY-	
PI Sta 11+79.37 Δ = 6'14" 35.8" (RT) D = 22'00" 00.0" L = 28.38' T = 14.20' R = 260.44'	

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



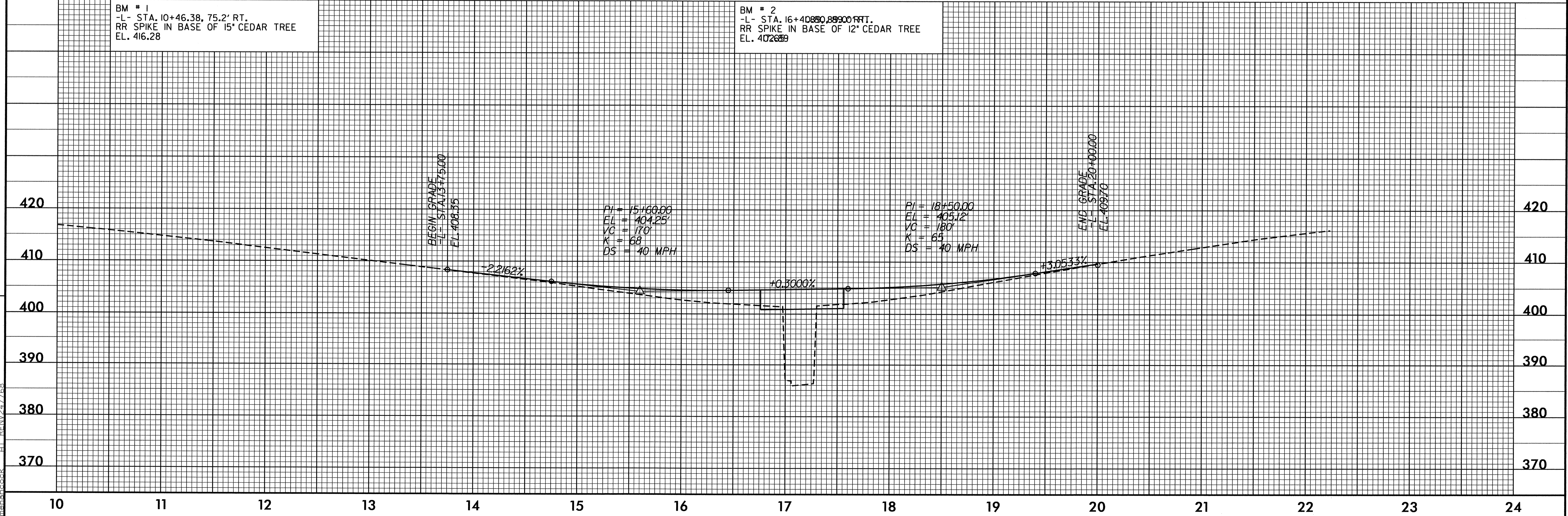
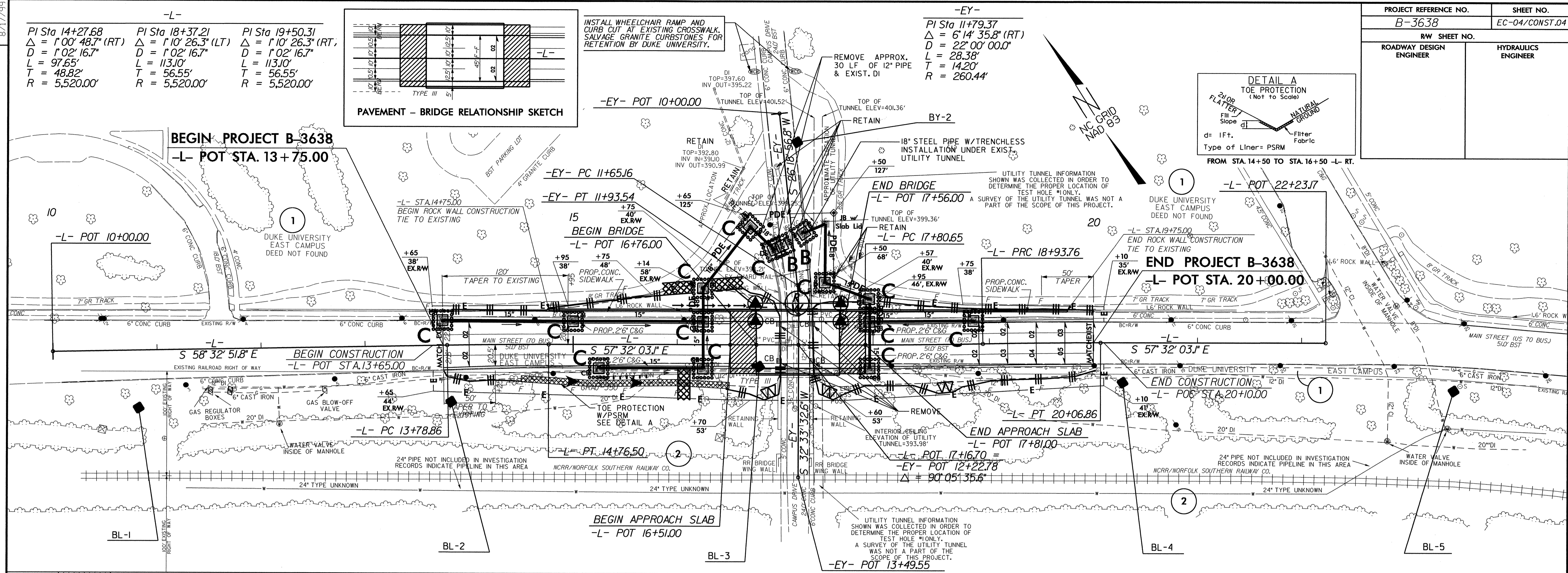
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



REVISIONS

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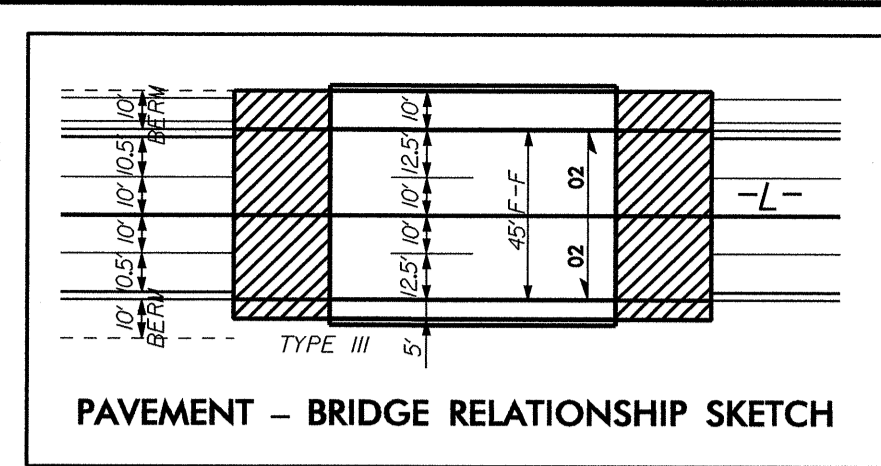
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B-3638	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



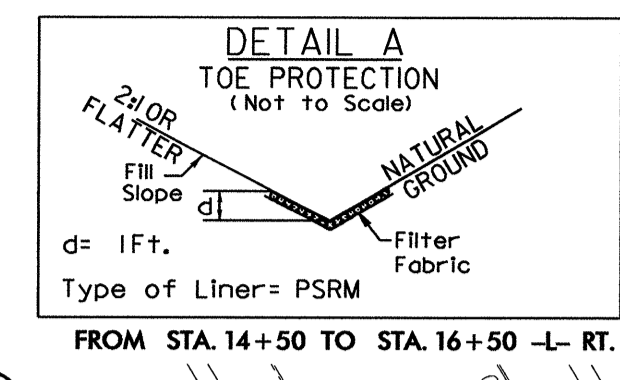
8/17/99

22-DEC-2011 07:44
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 melancock

-L-		
PI Sta 14+27.68	PI Sta 18+37.21	PI Sta 19+50.31
$\Delta = 1'00'' 48.7''$ (RT)	$\Delta = 1'10'' 26.3''$ (LT)	$\Delta = 1'10'' 26.3''$ (RT)
$D = 1'02'' 16.7''$	$D = 1'02'' 16.7''$	$D = 1'02'' 16.7''$
$L = 97.65'$	$L = 113.10'$	$L = 113.10'$
$T = 48.82'$	$T = 56.55'$	$T = 56.55'$
$R = 5,520.00'$	$R = 5,520.00'$	$R = 5,520.00'$



-EY-	
PI Sta 11+79.37	$\Delta = 6'14'' 35.8''$ (RT)
$D = 22'00'' 00.0''$	$L = 28.38'$
$T = 14.20'$	$R = 260.44'$



REVISIONS

BM # 1
 -L- STA. 10+46.38, 75.2' RT.
 RR SPIKE IN BASE OF 15' CEDAR TREE
 EL. 416.28

BM # 2
 -L- STA. 16+40.880, 88.900 RT.
 RR SPIKE IN BASE OF 12' CEDAR TREE
 EL. 402.889