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6/2/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
EB-5923	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 030453 ENGINEER AARON C. CARLTON — 11/29/2022

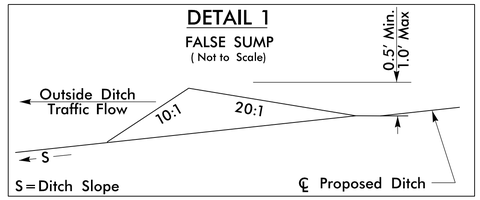
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Mattern & Craig
ENGINEERS • SURVEYORS
FIRM LICENSE No. C-1154
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562

DATUM DESCRIPTION

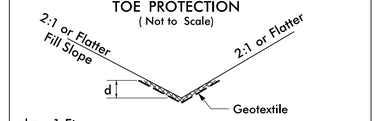
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS 103" FROM PROJECT R-5600 WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 613216.3160(ft) EASTING: 747762.8490(ft)
ELEVATION: 2220.27(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999776716
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BM-1" TO -L- STATION 10+00.00 IS S47°45'57.49"E - 1108.38'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

DETAIL 1
FALSE SUMP
(Not to Scale)



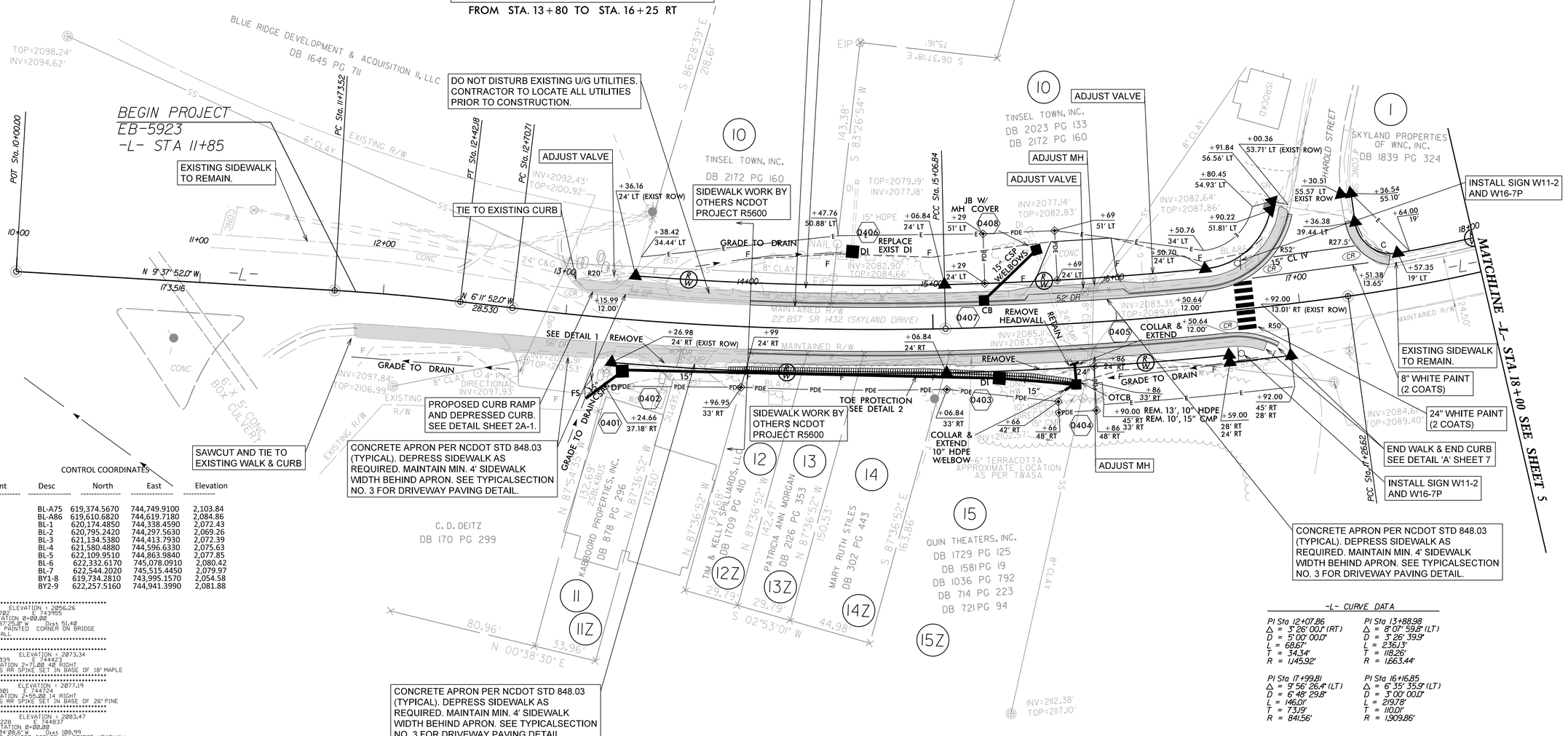
STA. 13+16

DETAIL 2
TOE PROTECTION
(Not to Scale)



d = 1 Ft.
Type of Liner = EST. 60 TONS Class II Rip-Rap
125 SY GEOTEXTILE

FROM STA. 13+80 TO STA. 16+25 RT



CONTROL COORDINATES

Point	Desc	North	East	Elevation
A75	BL-A75	619,374.5670	744,749.9100	2,103.84
A86	BL-A86	619,610.6820	744,619.7180	2,084.86
1	BL-1	620,174.4850	744,338.4590	2,072.43
2	BL-2	620,795.2420	744,297.5630	2,069.26
3	BL-3	621,134.5380	744,413.7930	2,072.39
4	BL-4	621,580.4880	744,596.6330	2,075.63
5	BL-5	622,109.9510	744,863.9840	2,077.85
6	BL-6	622,332.6170	745,078.0910	2,080.42
7	BL-7	622,544.2020	745,515.4450	2,079.97
8	BY1-8	619,734.2810	743,995.1570	2,054.58
9	BY2-9	622,257.5160	744,941.3990	2,081.88

BM1 ELEVATION = 2056.26
N 619702 E 743955
BY1 STATION 0+00.00
S 50°37'25.0" W Dist 51.40
BM1 IS PAINTED CORNER ON BRIDGE HEADWALL

BM2 ELEVATION = 2073.34
N 621039 E 744423
BL STATION 2+71.00 40 RIGHT
BM2 IS RR SPIKE SET IN BASE OF 18" MAPLE

BM3 ELEVATION = 2077.19
N 621801 E 744724
BL STATION 2+55.00 14 RIGHT
BM3 IS RR SPIKE SET IN BASE OF 26" PINE

BM4 ELEVATION = 2083.47
N 622228 E 744837
BY2 STATION 0+00.00
S 74°04'08.6" W Dist 108.99
BM4 IS PAINTED CORNER ON BRIDGE HEADWALL

BM5 ELEVATION = 2082.99
N 622583 E 745662
BL STATION 4+86.00
N 75°08'34.3" E Dist 151.92
BM5 IS RR SPIKE SET IN BASE OF RR CROSSING SIGN

-L- CURVE DATA

PI Sta 12+07.86	PI Sta 13+88.98
Δ = 3° 26' 00.0" (RT)	Δ = 8° 07' 59.8" (LT)
D = 5° 00' 00.0"	D = 3° 26' 39.9"
L = 68.67'	L = 236.13'
T = 34.34'	T = 118.26'
R = 1,145.92'	R = 1,663.44'
PI Sta 17+99.81	PI Sta 16+16.85
Δ = 9° 56' 26.4" (LT)	Δ = 6° 35' 35.9" (LT)
D = 6° 48' 29.8"	D = 3° 00' 00.0"
L = 146.01'	L = 219.78'
T = 73.19'	T = 110.01'
R = 841.56'	R = 1,909.86'

— TOE PROTECTION SEE DETAIL 2

PROPOSED 4" CONCRETE SIDEWALK