PROJECT REFERENCE NO.	SHEET NO.
U-3465	7
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 016378 ENGINEER RAKHA V. PATEL
9/2/2014
DocuSigned by: Rakha V. Patel
F9CF1D6A8A8D4DE...

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 020870 ENGINEER MARC T. SHOWN
9/5/2014
DocuSigned by: Marc Shown
1B02A9EC0A5B4C2...

-Y2-

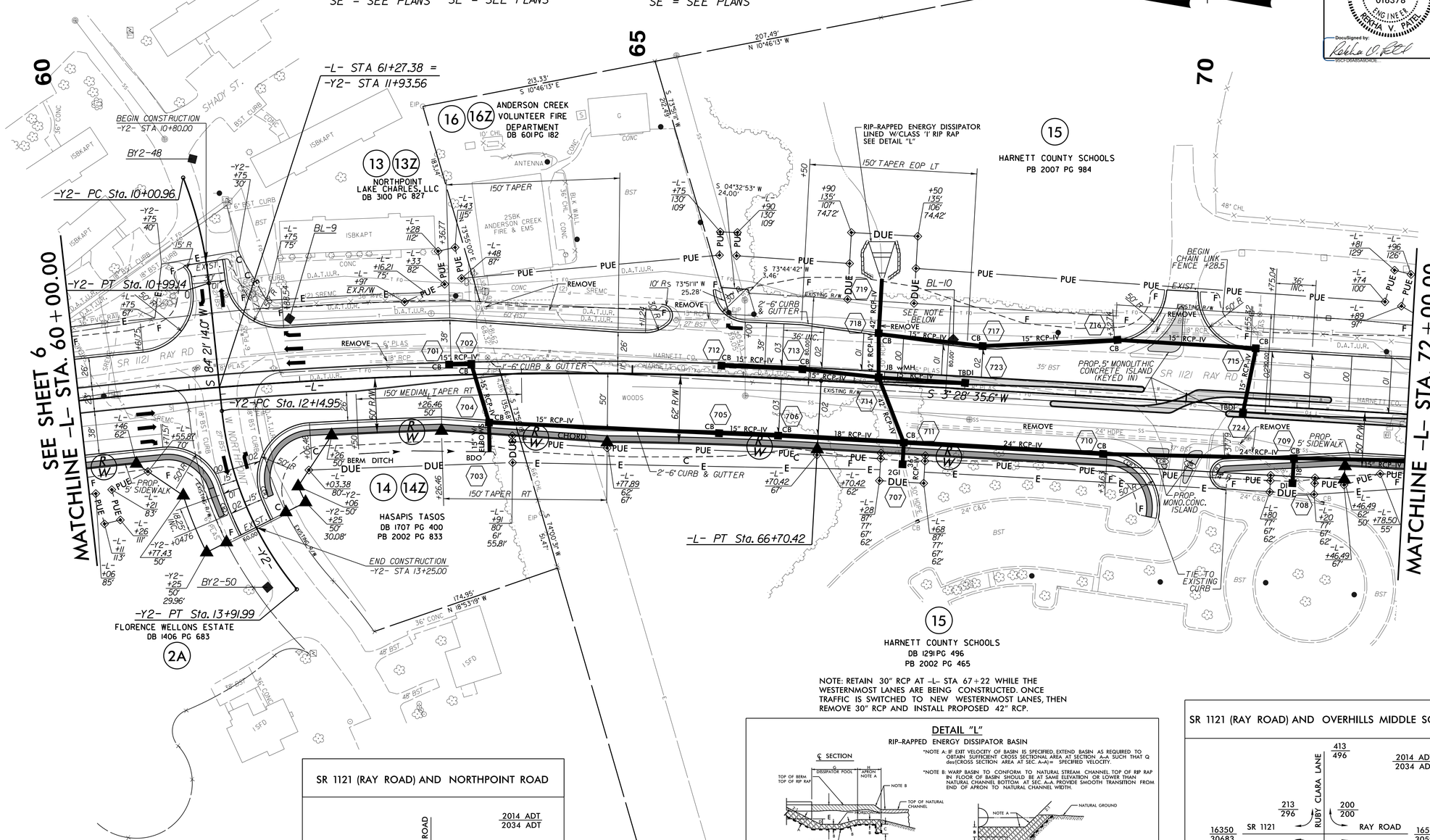
PI Sta 10+50.36
Δ = 15° 37' 34.0" (RT)
D = 15° 54' 55.8"
L = 98.18'
T = 49.40'
R = 360.00'
SE = SEE PLANS

PI Sta 13+06.13
Δ = 33° 48' 39.8" (LT)
D = 19° 05' 54.9"
L = 177.03'
T = 91.18'
R = 300.00'
SE = SEE PLANS

-L-

PI Sta 62+17.14
Δ = 13° 02' 32.2" (RT)
D = 1° 25' 56.6"
L = 910.52'
T = 457.24'
R = 4,000.00'
SE = SEE PLANS

NAD 83/95



NOTE: RETAIN 30" RCP AT -L- STA 67+22 WHILE THE WESTERNMOST LANES ARE BEING CONSTRUCTED. ONCE TRAFFIC IS SWITCHED TO NEW WESTERNMOST LANES, THEN REMOVE 30" RCP AND INSTALL PROPOSED 42" RCP.

SR 1121 (RAY ROAD) AND NORTHPOINT ROAD

2014 ADT / 2034 ADT

E. NORTHPOINT ROAD	613 / 696		
SR 1121	213 / 296	400 / 400	RAY ROAD
W. NORTHPOINT ROAD	413 / 496	663 / 1079	
	1076 / 1575		

15913 / 29996 — 16350 / 30683

SR 1121 (RAY ROAD) AND OVERHILLS MIDDLE SCHOOL

2014 ADT / 2034 ADT

RUBY CLARA LANE	413 / 496		
SR 1121	213 / 296	200 / 200	RAY ROAD
OVERHILLS MIDDLE SCHOOL	625 / 792	800 / 800	
	1425 / 1592		

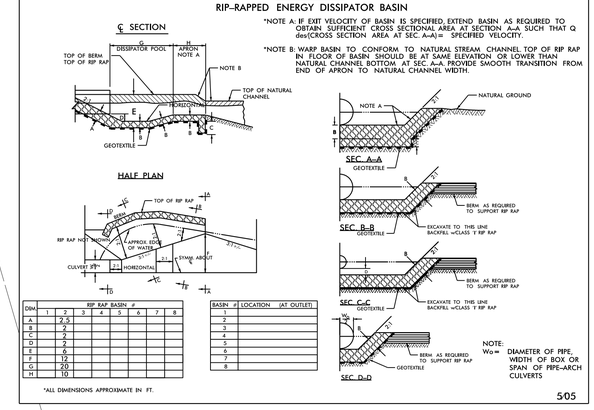
16350 / 30683 — 16512 / 30595

DETAIL "L"

RIP-RAPPED ENERGY DISSIPATOR BASIN

*NOTE A: IF EXIT VELOCITY OF BASIN IS SPECIFIED EXTEND BASIN AS REQUIRED TO OBTAIN SUFFICIENT CROSS SECTIONAL AREA AT SECTION A-A SUCH THAT Q des/CROSS SECTION AREA AT SEC. A-A)= SPECIFIED VELOCITY.

*NOTE B: WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL TOP OF RIP RAP IN FLOOR OF BASIN SHOULD BE AT SAME ELEVATION OR LOWER THAN NATURAL CHANNEL BOTTOM AT SEC. A-A. PROVIDE SMOOTH TRANSITION FROM END OF APRON TO NATURAL CHANNEL WIDTH.



DIM	1	2	3	4	5	6	7	8
A	2.5							
B	2							
C	2							
D	2							
E	6							
F	12							
G	20							
H	10							

RIP RAP BASIN #

BASIN #	LOCATION (AT OUTLET)
1	
2	
3	
4	
5	
6	
7	
8	

*ALL DIMENSIONS APPROXIMATE IN FT.

NOTE:
W_B = DIAMETER OF PIPE, WIDTH OF BOX OR SPAN OF PIPE-ARCH CULVERTS

5-05

NOTES: (1) SEE SHEET 23 FOR -L- PROFILE
(2) SEE SHEET 31 FOR -Y2- PROFILE
(3) SEE SHEET 2B-4 FOR INTERSECTION DETAIL AT -L- STA.70+00

NOTE: SEE PAVEMENT MARKING PLANS FOR ACTUAL LOCATIONS OF CURB RAMPS.

REVISIONS

28-AUG-2014 12:01
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$$USERNAME$$