

See Sheet 1-B For Conventional Symbols

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

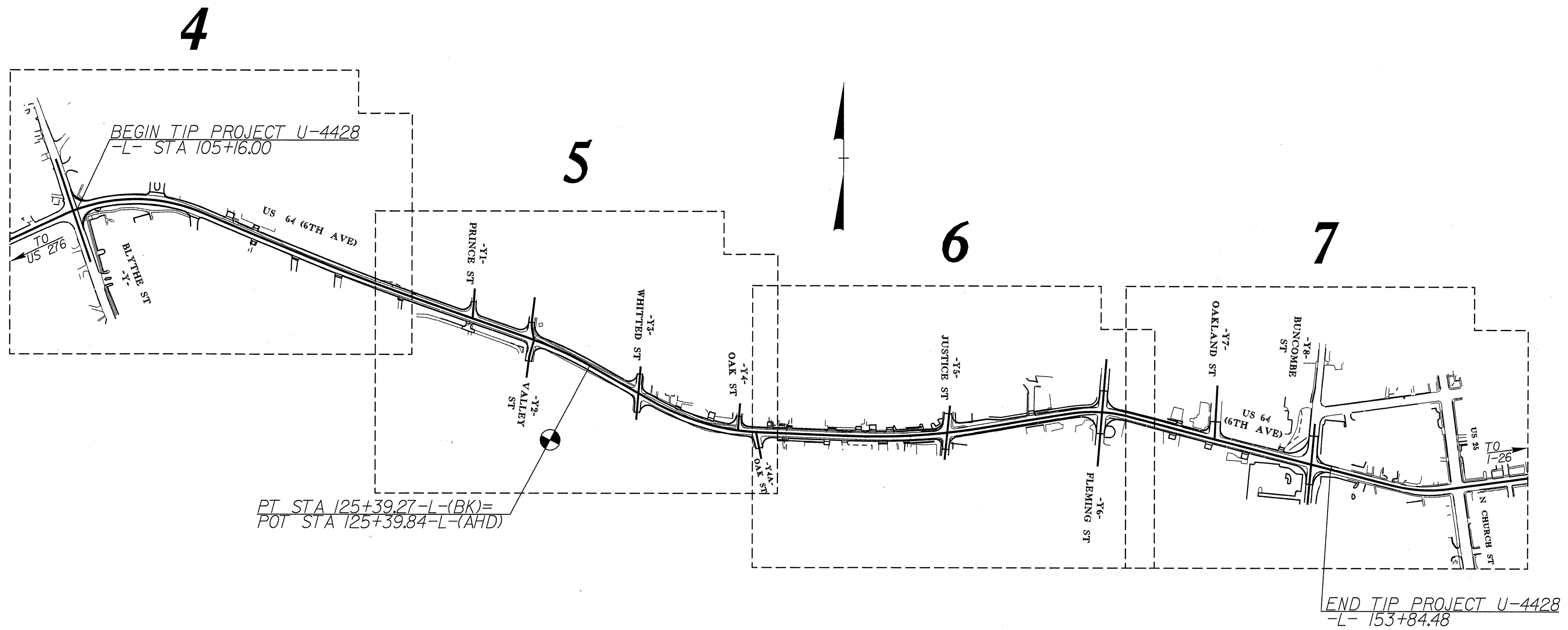
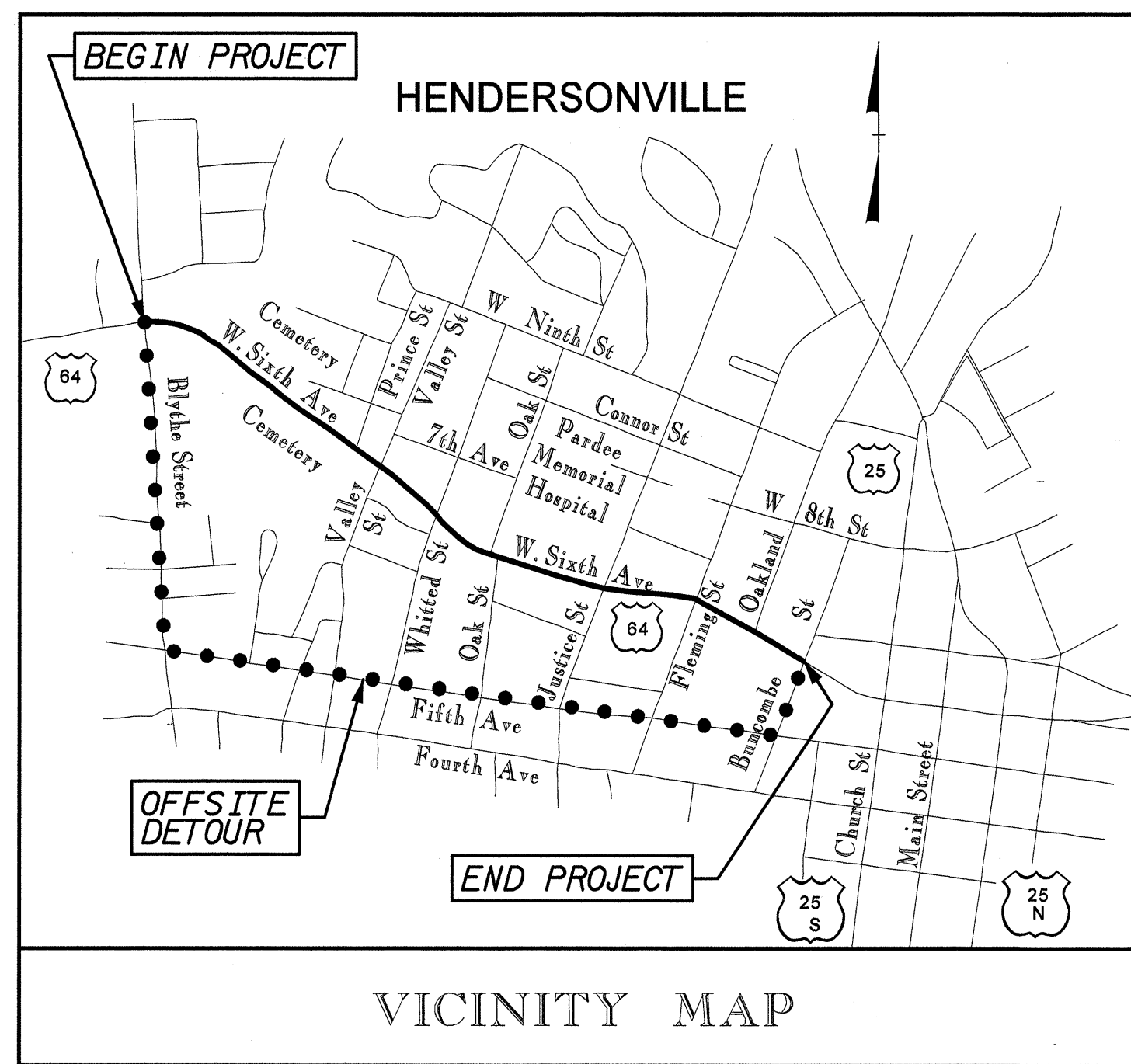
**HENDERSON COUNTY**

LOCATION: HENDERSONVILLE - US 64 (6TH AVE.)  
FROM BLYTHE ST. TO BUNCOMBE ST.

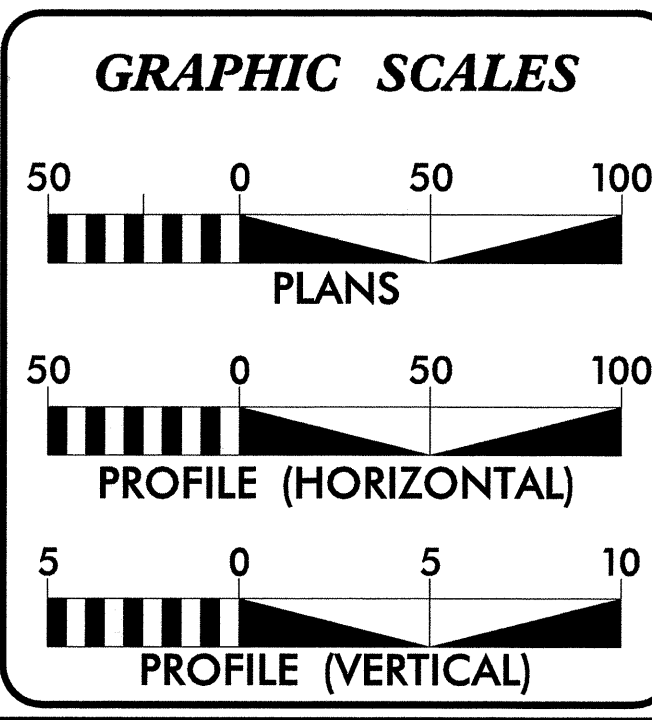
TYPE OF WORK: GRADING, PAVING, DRAINAGE,  
UTILITIES, SIDEWALK AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4428	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
35025.1.1		P.E.	
35025.3.1		RW	
35025.2.2		CONST	

TIP PROJECT: U-4428



CONTRACT: C201858



**DESIGN DATA**

ADT 2007 =	14900
ADT 2027 =	20100
DHV =	12 %
D =	60 %
T =	3 %
V =	40 MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY T.I.P. PROJECT U-4428 = 0.922 MILES

Prepared in the Office of:  
**WILBUR SMITH ASSOCIATES**  
4135 Mendenhall Oaks Pkwy, Suite 160, High Point, NC 27265

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 11-10-06

LETTING DATE: SEPTEMBER 16 2008

RICHARD POTEMPA, PE  
PROJECT ENGINEER

RICHARD POTEMPA, PE  
PROJECT DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

**SEAL 9550**

RICHARD M. POTEMPA  
ENGINEER

Richard M. Potempa  
7-9-08 P.E.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

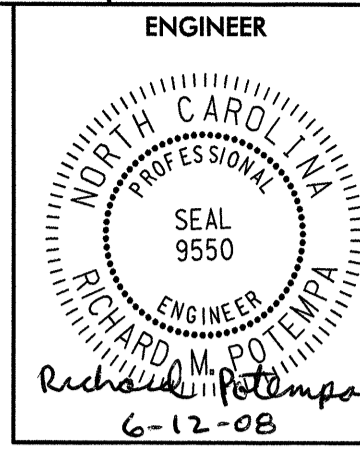
STATE DESIGN ENGINEER

APPROVED  
DIVISION ADMINISTRATOR

P.E.

DATE

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# INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS

## INDEX OF PLAN SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
1-A	GEN NOTES, INDEX & LIST OF STDS
1-B	CONVENTIONAL SYMBOLS
1-C	CONTROL POINT DATA
2	TYPICAL SECTIONS, PAVEMENT SCHEDULE, WEDGING DETAIL AND CONCRETE RETAINING WALL DETAIL
2A-2B	INTERSECTION & DRIVE DETAILS
2-C	CONCRETE STEPS DETAIL
2-D	DETAIL TO CONVERT EXISTING DROP INLET OR CATCH BASIN TO JUNCTION BOX (MANHOLE OPTIONAL)
3	SUMMARY OF QUANTITIES
3A	RIGHT OF WAY AREA DATA
3B	SUMMARY OF DRAINAGE QUANTITIES
3C	SUMMARIES OF EARTHWORK, PIPE PLUG, PIPE REMOVAL AND GUARDRAIL QUANTITIES
3D	PARCEL INDEX SHEET
4-7	PLAN SHEETS
8-11	PROFILE SHEETS
TCP-1 THRU TCP-5	TRAFFIC CONTROL PLANS
PM-1 THRU PM-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIG-1 THRU SIG-34	SIGNAL PLANS
UC-1 THRU UC-17	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-5	UTILITIES BY OTHERS PLANS
X-1 THRU X-17	CROSS SECTIONS

## GENERAL NOTES:

2006 SPECIFICATIONS  
EFFECTIVE: 07-18-06  
REVISED: 07-18-06

2006 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 07-18-06  
REV. 01-02-07

### GRADE LINE:

### GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES OR PROFILES ARE SHOWN, THE PROPOSED RESURFACING WILL BE PLACED OVER THE TOP ELEVATION OF THE EXISTING PAVEMENT. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

### CLEARING:

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

### SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

### SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

### DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD 848.03 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

### STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

### GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

### TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

### SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

### UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY, BELL SOUTH, MEDIA COMMUNICATIONS, AT&T, PSNC ENERGY AND THE CITY OF HENDERSONVILLE.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

### RIGHT-OF-WAY-MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

### WHEELCHAIR RAMPS:

WHEELCHAIR RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. THE CONSTRUCTION OF ALL WHEELCHAIR RAMPS SHALL BE IN ACCORDANCE WITH STD. NO. 848.05.

The following Roadway Standards as appear on "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of the these plans:

STD.NO.	TITLE
	<b>DIVISION 2 - EARTHWORK</b>
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
	<b>DIVISION 3 - PIPE CULVERTS</b>
300.01	Method of Pipe Installation - Method 'A'
	<b>DIVISION 6 - ASPHALT BASES &amp; PAVEMENTS</b>
654.01	Pavement Repairs
	<b>DIVISION 8 - INCIDENTALS</b>
840.00	Concrete Base Pad For Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use On Standard Catch Basin
840.04	Concrete Open Throat Catch Basin - 12" thru 48" Pipe
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg. 840.14 or 840.15
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
846.01	Concrete Curb, Gutter And Curb & Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.05	Wheelchair Ramp - Curb Cut
862.01	Guardrail Placement
862.02	Guardrail Installation

REVISIONS

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








Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering












STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS







### BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	_____ 
Property Corner	_____ 
Property Monument	_____ 
Parcel/Sequence Number	_____ 
Existing Fence Line	_____ 
Proposed Woven Wire Fence	_____ 
Proposed Chain Link Fence	_____ 
Proposed Barbed Wire Fence	_____ 
Existing Wetland Boundary	_____ 
Proposed Wetland Boundary	_____ 
Existing High Quality Wetland Boundary	_____ 
Existing Endangered Animal Boundary	_____ 
Existing Endangered Plant Boundary	_____ 

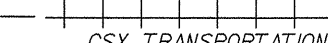

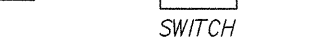


### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	_____ 
Sign	_____ 
Well	_____ 
Small Mine	_____ 
Foundation	_____ 
Area Outline	_____ 
Cemetery	_____ 
Building	_____ 
School	_____ 
Church	_____ 
Dam	_____ 














### HYDROLOGY:

Stream or Body of Water	_____
Hydro, Pool or Reservoir	_____
River Basin Buffer	_____
Flow Arrow	_____ 
Disappearing Stream	_____ 
Spring	_____ 
Swamp Marsh	_____ 
Proposed Lateral, Tail, Head Ditch	_____ 
False Sump	_____ 













### RAILROADS:

Standard Gauge	_____ 
RR Signal Milepost	_____ 
Switch	_____ 
RR Abandoned	_____ 
RR Dismantled	_____ 







### RIGHT OF WAY:

Baseline Control Point	_____ 
Existing Right of Way Marker	_____ 
Existing Right of Way Line	_____ 
Proposed Right of Way Line	_____ 
Proposed Right of Way Line with Iron Pin and Cap Marker	_____ 
Proposed Right of Way Line with Concrete or Granite Marker	_____ 
Existing Control of Access	_____ 
Proposed Control of Access	_____ 
Existing Easement Line	_____ 
Proposed Temporary Construction Easement	_____ 
Proposed Temporary Drainage Easement	_____ 
Proposed Permanent Drainage Easement	_____ 
Proposed Permanent Utility Easement	_____ 

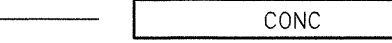
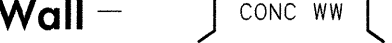
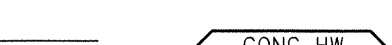
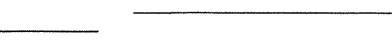
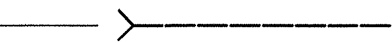

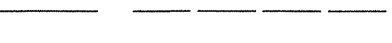


### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	_____ 
Existing Curb	_____ 
Proposed Slope Stakes Cut	_____ 
Proposed Slope Stakes Fill	_____ 
Proposed Wheel Chair Ramp	_____ 
Curb Cut for Future Wheel Chair Ramp	_____ 
Existing Metal Guardrail	_____ 
Proposed Guardrail	_____ 
Existing Cable Guiderail	_____ 
Proposed Cable Guiderail	_____ 
Equality Symbol	_____ 
Pavement Removal	_____ 












### VEGETATION:

Single Tree	_____ 
Single Shrub	_____ 
Hedge	_____ 
Woods Line	_____ 
Orchard	_____ 
Vineyard	_____ 














### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	_____ 
Bridge Wing Wall, Head Wall and End Wall	_____ 
MINOR:	
Head and End Wall	_____ 
Pipe Culvert	_____ 
Footbridge	_____ 
Drainage Box: Catch Basin, DI or JB	_____ 
Paved Ditch Gutter	_____ 
Storm Sewer Manhole	_____ 
Storm Sewer	_____ 








### UTILITIES:

POWER:	
Existing Power Pole	_____ 
Proposed Power Pole	_____ 
Existing Joint Use Pole	_____ 
Proposed Joint Use Pole	_____ 
Power Manhole	_____ 
Power Line Tower	_____ 
Power Transformer	_____ 
U/G Power Cable Hand Hole	_____ 
H-Frame Pole	_____ 
Recorded U/G Power Line	_____ 
Designated U/G Power Line (S.U.E.*)	_____ 









### TELEPHONE:

Existing Telephone Pole	_____ 
Proposed Telephone Pole	_____ 
Telephone Manhole	_____ 
Telephone Booth	_____ 
Telephone Pedestal	_____ 
Telephone Cell Tower	_____ 
U/G Telephone Cable Hand Hole	_____ 
Recorded U/G Telephone Cable	_____ 
Designated U/G Telephone Cable (S.U.E.*)	_____ 
Recorded U/G Telephone Conduit	_____ 
Designated U/G Telephone Conduit (S.U.E.*)	_____ 
Recorded U/G Fiber Optics Cable	_____ 
Designated U/G Fiber Optics Cable (S.U.E.*)	_____ 






### WATER:

Water Manhole	_____ 
Water Meter	_____ 
Water Valve	_____ 
Water Hydrant	_____ 
Recorded U/G Water Line	_____ 
Designated U/G Water Line (S.U.E.*)	_____ 
Above Ground Water Line	_____ 







### TV:

TV Satellite Dish	_____ 
TV Pedestal	_____ 
TV Tower	_____ 
U/G TV Cable Hand Hole	_____ 
Recorded U/G TV Cable	_____ 
Designated U/G TV Cable (S.U.E.*)	_____ 
Recorded U/G Fiber Optic Cable	_____ 
Designated U/G Fiber Optic Cable (S.U.E.*)	_____ 











### GAS:

Gas Valve	_____ 
Gas Meter	_____ 
Recorded U/G Gas Line	_____ 
Designated U/G Gas Line (S.U.E.*)	_____ 
Above Ground Gas Line	_____ 

### SANITARY SEWER:

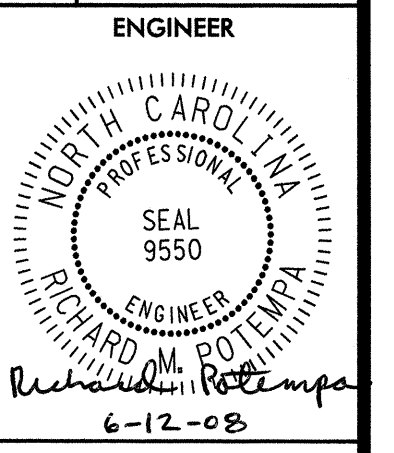
Sanitary Sewer Manhole	_____ 
Sanitary Sewer Cleanout	_____ 
U/G Sanitary Sewer Line	_____ 
Above Ground Sanitary Sewer	_____ 
Recorded SS Forced Main Line	_____ 
Designated SS Forced Main Line (S.U.E.*)	_____ 

### MISCELLANEOUS:

Utility Pole	_____ 
Utility Pole with Base	_____ 
Utility Located Object	_____ 
Utility Traffic Signal Box	_____ 
Utility Unknown U/G Line	_____ 
U/G Tank; Water, Gas, Oil	_____ 
A/G Tank; Water, Gas, Oil	_____ 
U/G Test Hole (S.U.E.*)	_____ 
Abandoned According to Utility Records	_____ 
End of Information	_____ 

REVISIONS

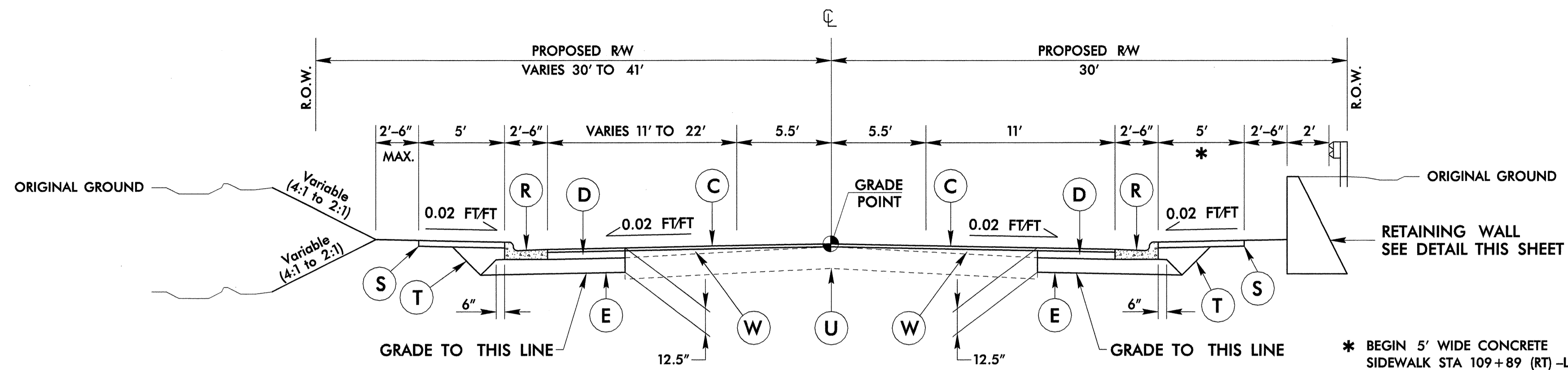
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REVISIONS

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PC Sta. 104+53.12 -L-	589,850.7458	962,336.7834
PI Sta. 107+38.32 -L-	589,970.9184	962,595.4235
PT Sta. 109+90.63 -L-	589,861.9679	962,858.9875
PC Sta. 113+18.15 -L-	589,736.8485	963,161.6662
PI Sta. 116+00.21 -L-	589,629.0948	963,422.3350
PT Sta. 118+82.12 -L-	589,536.2057	963,688.6632
PC Sta. 123+18.55 -L-	589,392.4814	964,100.7444
PI Sta. 124+29.22 -L-	589,356.0352	964,205.2417
PT Sta. 125+39.27 -L- (BK) = POT Sta. 125+39.84 -L- (AHD)	589,301.0916	964,301.3105
PC Sta. 128+10.19 -L-	589,166.8774	964,535.9841
PI Sta. 130+22.20 -L-	589,061.6189	964,720.0286
PT Sta. 132+26.02 -L-	589,053.3994	964,931.8873
PC Sta. 135+60.37 -L-	589,040.4372	965,265.9864
PI Sta. 138+13.80 -L-	589,030.6125	965,519.2192
PT Sta. 140+65.50 -L-	589,071.8055	965,769.2723
PC Sta. 143+83.88 -L-	589,123.5580	966,083.4245
PI Sta. 144+96.35 -L-	589,141.8399	966,194.4009
PT Sta. 146+05.57 -L-	589,113.7239	966,303.3020
PC Sta. 156+24.16 -L-	588,859.0963	967,289.5466
PI Sta. 157+30.72 -L-	588,832.4571	967,392.7278
PT Sta. 158+34.51 -L-	588,847.5386	967,498.2198
POT Sta. 162+33.87 -L-	588,904.0568	967,893.5519
POT Sta. 10+00.00 -Y-	590,057.9488	962,314.6156
POT Sta. 12+00.00 -Y=- POC Sta. 104+99.39 -L-	589,868.7328	962,379.4023
POT Sta. 14+00.00 -Y-	589,679.5168	962,444.1889
POT Sta. 10+00.00 -Y1-	589,583.6553	963,873.2766
POT Sta. 11+09.32 -Y1=- POT Sta. 120+69.08 -L-	589,474.6382	963,865.1874
POT Sta. 8+50.00 -Y2-	589,551.7871	964,095.9825
PC Sta. 9+29.70 -Y2-	589,472.6567	964,086.4863
PI Sta. 9+55.34 -Y2-	589,447.1990	964,083.4312
PT Sta. 9+80.55 -Y2-	589,422.0614	964,088.4842
POT Sta. 10+08.30 -Y2=- POT Sta. 123+11.36 -L-	589,394.8497	964,093.9540
POT Sta. 10+08.30 -Y2A=- POT Sta. 123+11.36 -L-	589,394.8497	964,093.9540
PC Sta. 10+41.89 -Y2A-	589,362.8689	964,083.6811
PI Sta. 10+65.00 -Y2A-	589,340.8712	964,076.6149
PT Sta. 10+87.97 -Y2A-	589,317.9510	964,073.7000

CONTROL POINT DATA		
STATION	NORTHING	EASTING
POT Sta. 10+00.00 -Y3-	589,297.7411	964,489.4774
POT Sta. 11+00.00 -Y3=- POT Sta. 127+47.37 -L-	589,198.0634	964,481.4553
POT Sta. 12+00.00 -Y3-	589,098.3857	964,473.4333
POT Sta. 10+00.00 -Y4-	589,159.8935	964,859.9977
POT Sta. 11+00.00 -Y4=- POC Sta. 131+45.89 -L-	589,060.2083	964,852.0691
POT Sta. 10+00.00 -Y4A=- POC Sta. 132+13.58 -L-	589,053.9710	964,919.4600
POT Sta. 11+00.00 -Y4A-	588,955.8759	964,938.8854
POT Sta. 10+00.00 -Y5-	589,152.4638	965,640.4453
POT Sta. 11+00.00 -Y5=- POC Sta. 139+25.62 -L-	589,052.9408	965,630.6900
POT Sta. 12+00.00 -Y5-	588,953.4177	965,620.9348
POT Sta. 10+00.00 -Y6-	589,328.8371	966,221.3177
POT Sta. 12+00.00 -Y6=- POC Sta. 145+06.12 -L-	589,129.4834	966,205.2523
POT Sta. 14+00.00 -Y6-	588,930.1297	966,189.1868
POT Sta. 10+00.00 -Y7-	589,230.6805	966,634.4799
POT Sta. 12+00.00 -Y7=- POT Sta. 149+36.64 -L-	589,030.9627	966,623.8596
POT Sta. 10+00.00 -Y8-	589,087.6260	966,996.5960
POT Sta. 11+50.00 -Y8=- POT Sta. 153+07.54 -L-	588,938.2453	966,982.9803
POT Sta. 13+00.00 -Y8-	588,788.8645	966,969.3646
PI Sta. 10+00.00 MA5 = POC Sta. 104+77.94 -L- (39.44'LT)	589,897.1478	962,344.2431
PI Sta. 14+52.73 MA6 = POC Sta. 109+19.52 -L- (18.01'LT)	589,902.7835	962,796.9384
PI Sta. 21+51.69 MA7 = POC Sta. 116+15.29 -L- (22.49'RT)	589,606.4029	963,429.9485
PI Sta. 28+46.33 MA8 = POT Sta. 123+08.10 -L- (23.02'LT)	589,417.6593	964,098.4594
PI Sta. 32+84.23 MA9 = POT Sta. 127+42.76 -L- (29.45'RT)	589,174.7871	964,462.8300
PI Sta. 37+24.99 MA10 = POC Sta. 131+78.02 -L- (16.88'RT)	589,039.7866	964,882.4080
PI Sta. 44+91.65 MA11 = POC Sta. 139+41.29 -L- (24.22'RT)	589,030.6048	965,649.0147
PI Sta. 50+85.06 MA12 = POC Sta. 145+27.85 -L- (25.67'LT)	589,153.1303	966,229.6370
PI Sta. 54+93.90 MA13 = POT Sta. 149+31.74 -L- (15.28'RT)	589,017.3944	966,615.2893
PI Sta. 58+59.05 MA14 = POT Sta. 152+96.83 -L- (21.73'RT)	588,919.8824	966,967.1745
PI Sta. 60+86.42 MA15 = POT Sta. 155+20.64 -L- (18.33'LT)	588,902.7236	967,193.8927

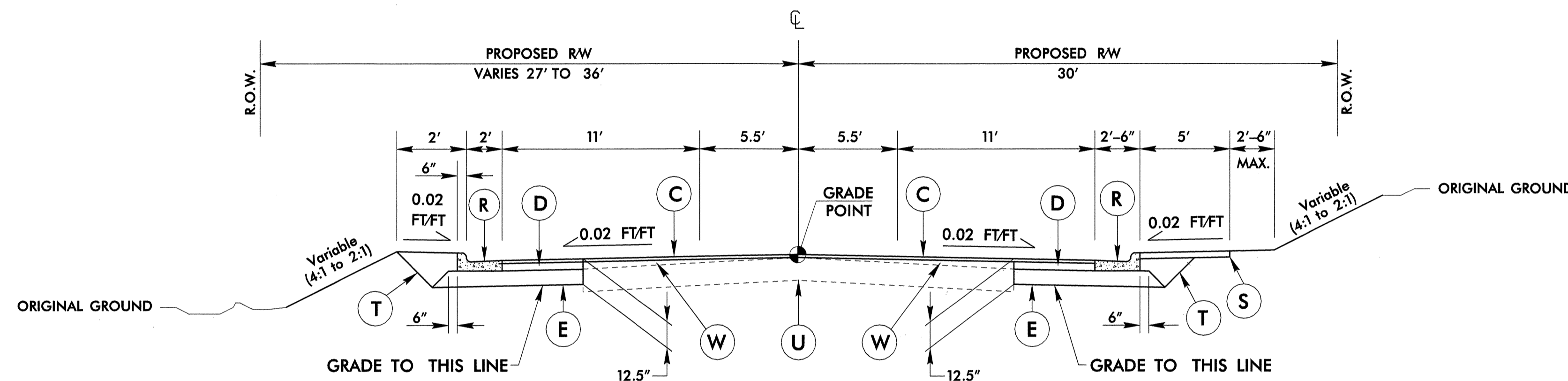


**TYPICAL SECTION NO. 1**

USE ON: -L- STA 105+16.00 TO -L- STA 116+00.00  
 -L- STA 123+00.00 TO -L- STA 153+84.48

NOTE: MILLING ASPHALT PAVEMENT, 0-3" DEPTH REQUIRED AT ALL -Y- LINE TIE-INS AND BEGIN /END PROJECT -L-

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

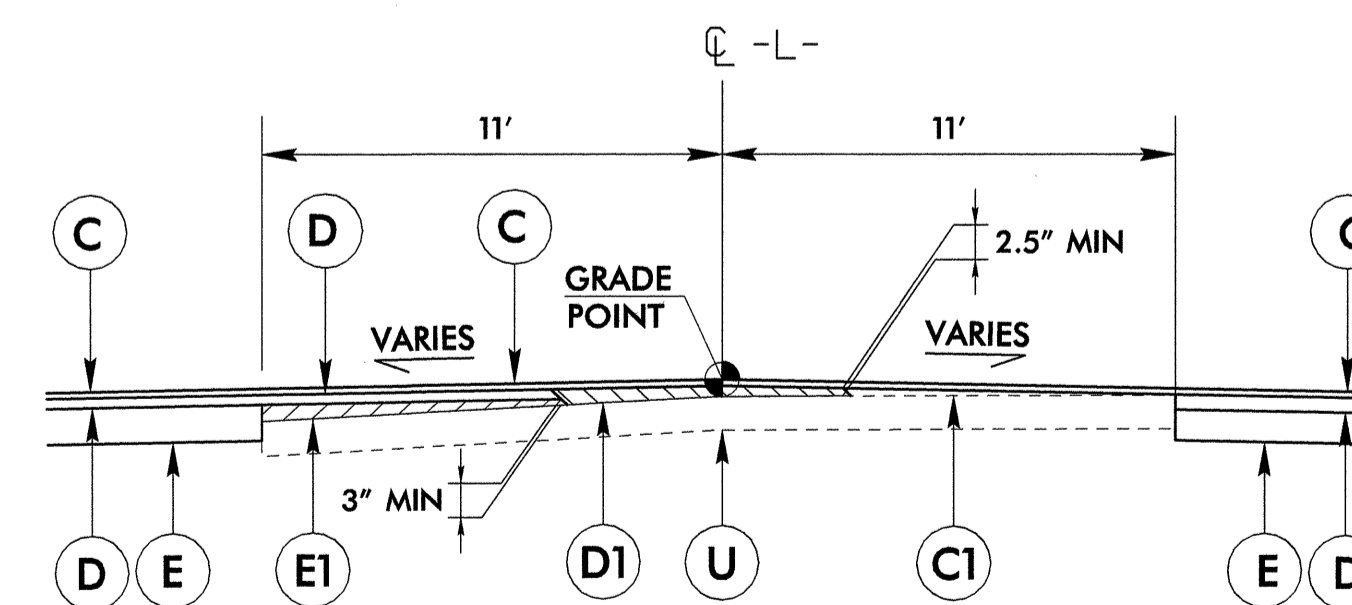
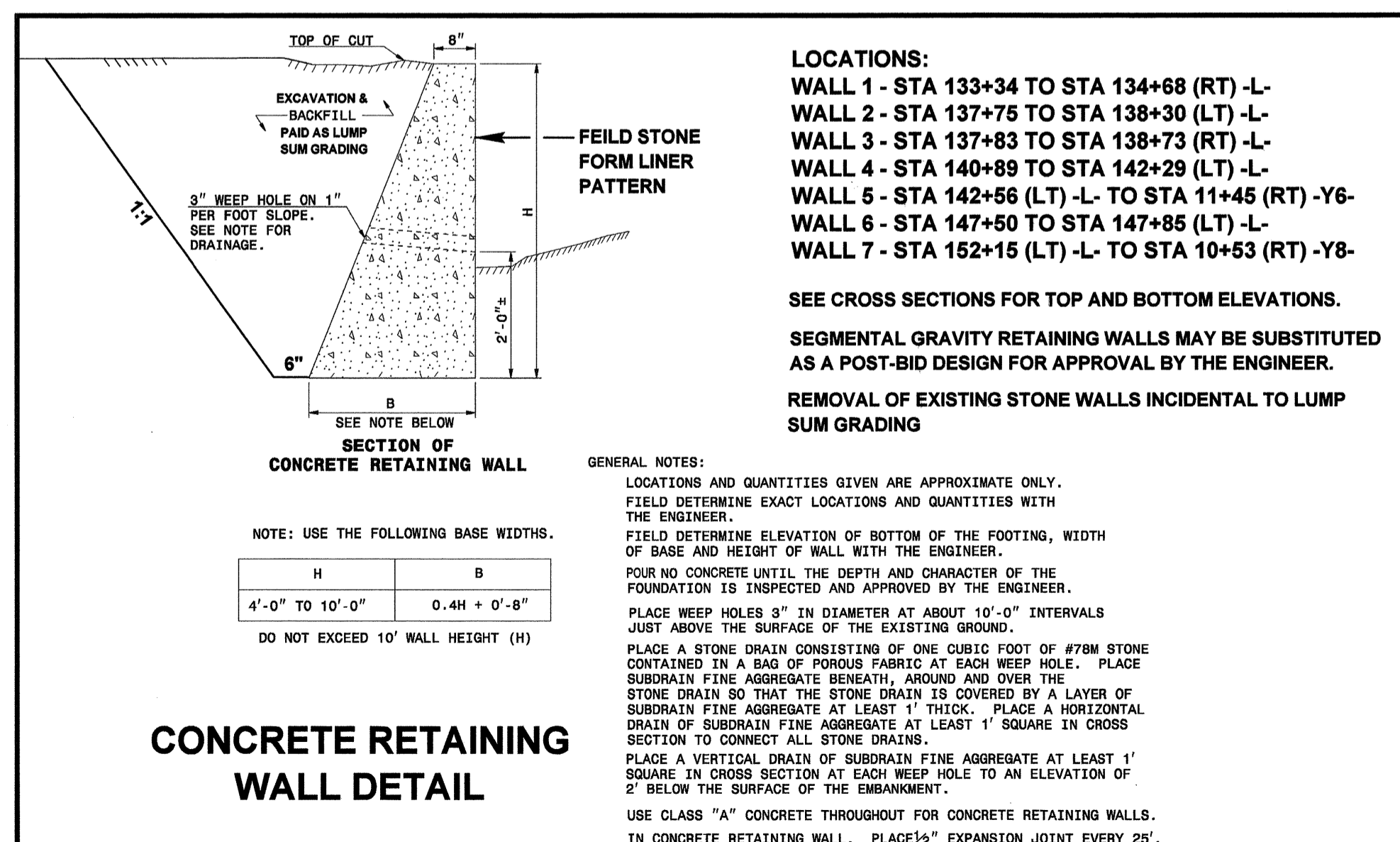


**TYPICAL SECTION NO. 2**

USE ON: -L- STA 116+00.00 TO -L- STA 125+39.27  
 -L- STA 125+39.84 TO -L- STA 123+00.00

PAVEMENT SCHEDULE	
C	PROP. APP. 3 IN. ASPH. CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBSSY IN EACH OF TWO LAYERS
C1	PROP. VAR. DEPTH ASPH. CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBSSY/IN. DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2.0 IN. IN DEPTH
D	PROP. APP. 4 IN. ASPH. CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBSSY.
D1	PROP. VAR. DEPTH ASPH. CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBSSY/IN. DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5 IN. OR GREATER THAN 4 IN. DEPTH
E	PROP. APP. 5.5 IN. ASPH. CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBSSY
E1	PROP. VAR. DEPTH ASPH. CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBSSY/IN. DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5.5 IN. OR LESS THAN 3 IN. DEPTH
R	2'-6" CONCRETE CURB AND GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

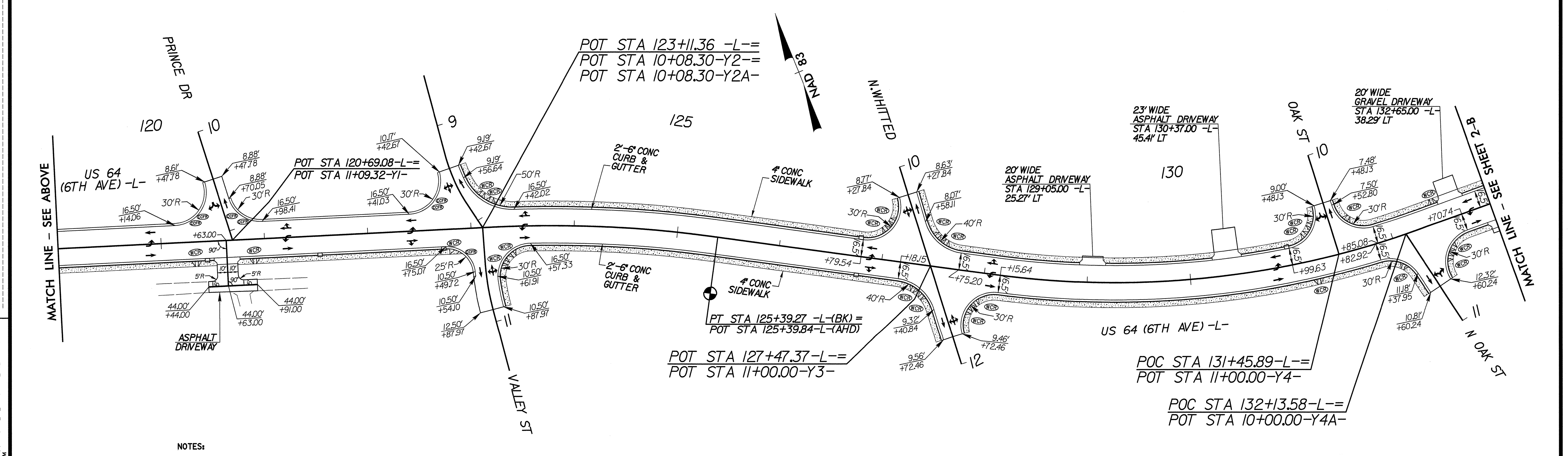
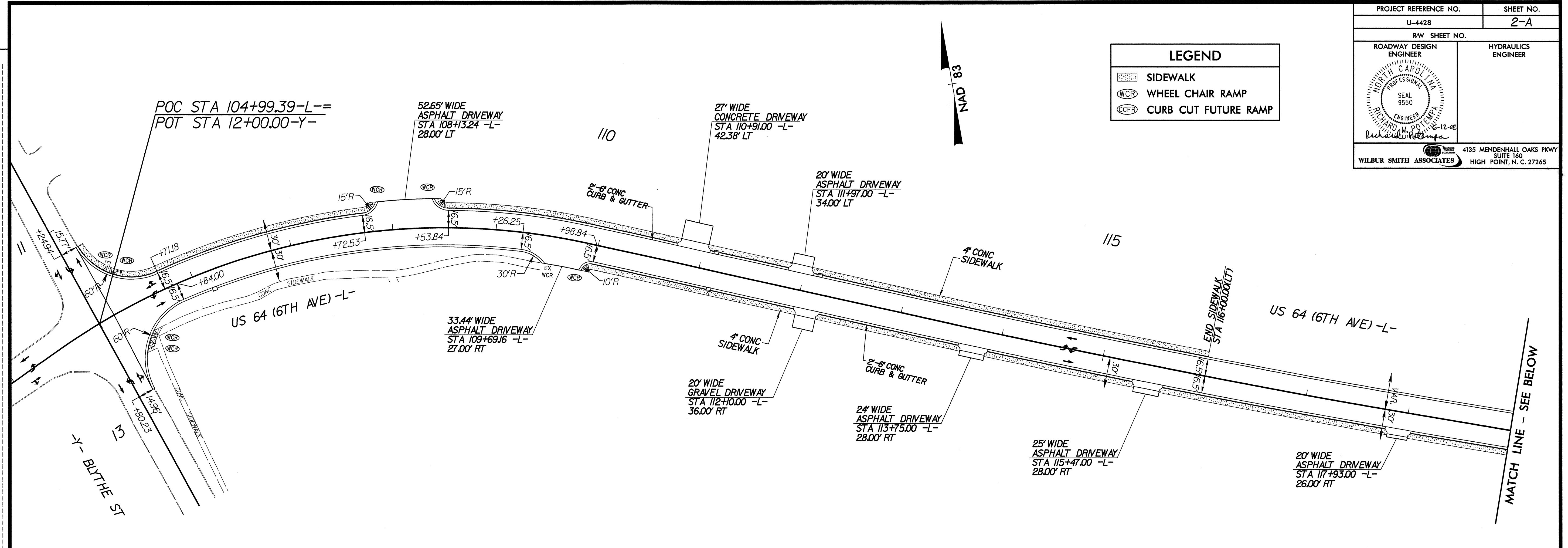
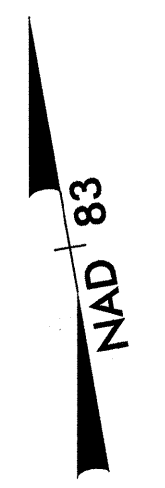
REVISIONS



NOT TO SCALE

**LEGEND**

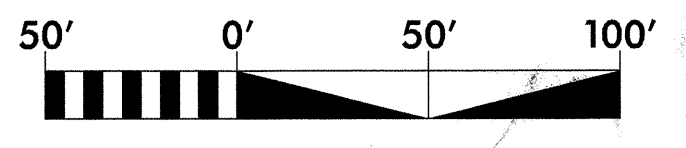
- SIDWALK
- WHEEL CHAIR RAMP
- CURB CUT FUTURE RAMP



- NOTES:**
1. CONCRETE DRIVEWAYS AS PER STD 848.03 AND PAID AS 6" CONCRETE DRIVEWAYS.
  2. GRAVEL DRIVEWAYS SHALL BE CONSTRUCTED 4" DEPTH AND PAID AS INCIDENTAL STONE BASE.
  3. ASPHALT DRIVEWAYS SHALL BE PAVED USING 1 1/2" SURFACE COURSE, TYPE S9.5B, ON 3" BASE COURSE, TYPE B25.0B
  4. 4" CONCRETE SIDEWALK SHALL BE CONSTRUCTED 5" WIDE.

**INTERSECTION & DRIVEWAY DETAIL**

SEE SHEET 4 & 5 FOR PLAN VIEW

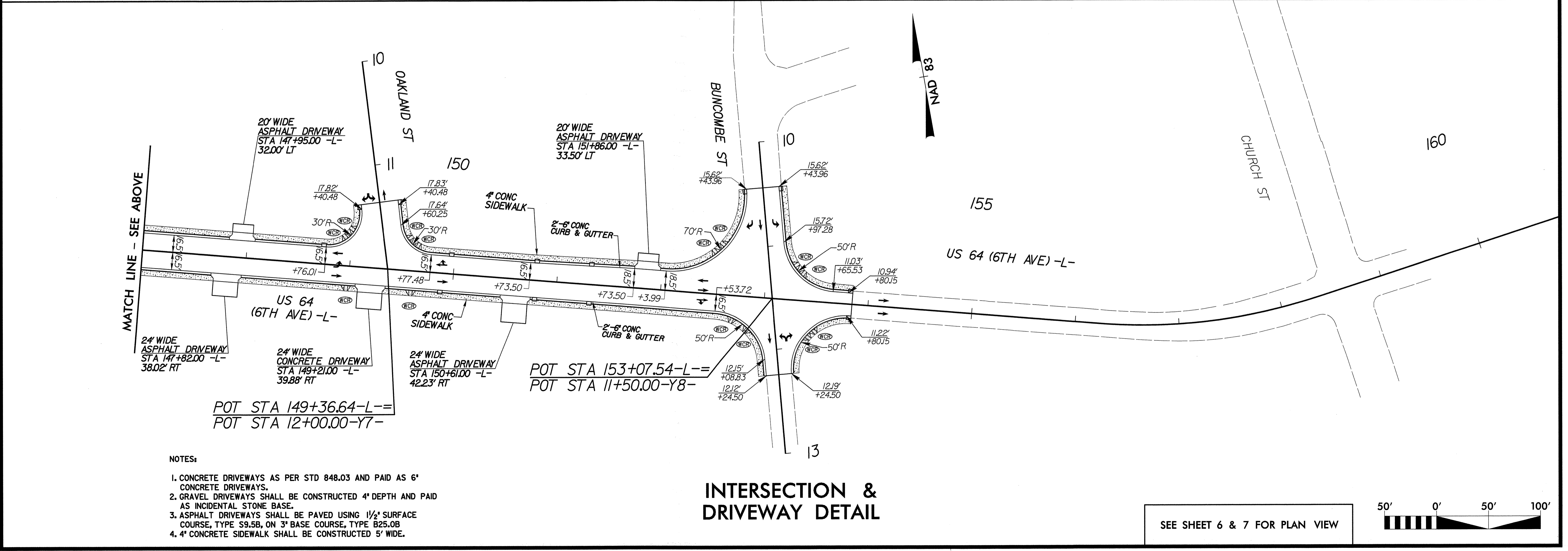
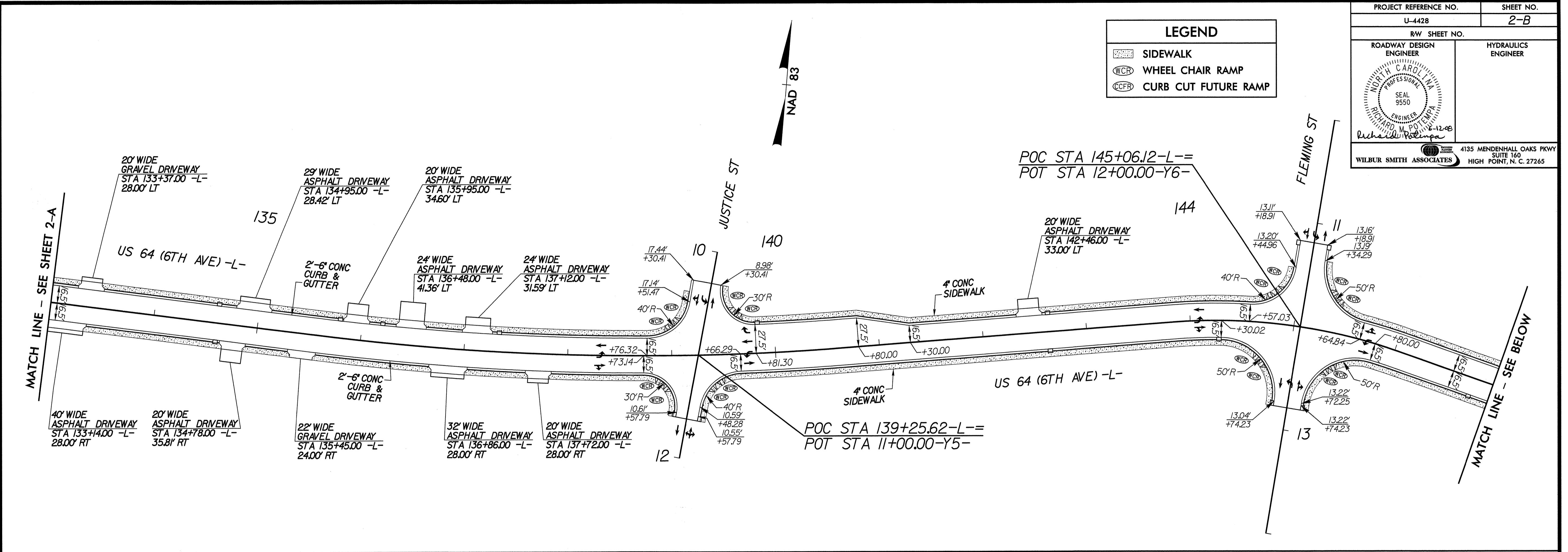


REVISIONS

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PROJECT REFERENCE NO. U-4428	SHEET NO. 2-B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER RICHARD W. POTLEMA SEAL 9550 12-28	HYDRAULICS ENGINEER
WILBUR SMITH ASSOCIATES 4135 MENDENHALL OAKS PKWY SUITE 160 HIGH POINT, N. C. 27265	

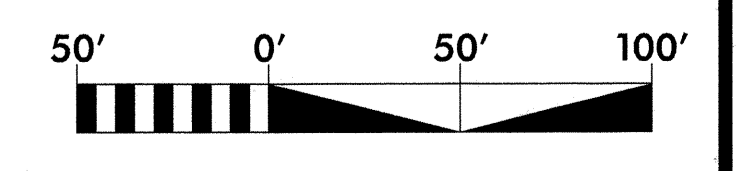
LEGEND	
	SIDEWALK
	WHEEL CHAIR RAMP
	CURB CUT FUTURE RAMP



- NOTES:
1. CONCRETE DRIVEWAYS AS PER STD 848.03 AND PAID AS 6" CONCRETE DRIVEWAYS.
  2. GRAVEL DRIVEWAYS SHALL BE CONSTRUCTED 4" DEPTH AND PAID AS INCIDENTAL STONE BASE.
  3. ASPHALT DRIVEWAYS SHALL BE PAVED USING 1 1/2" SURFACE COURSE, TYPE S9.5B, ON 3" BASE COURSE, TYPE B25.0B
  4. 4" CONCRETE SIDEWALK SHALL BE CONSTRUCTED 5" WIDE.

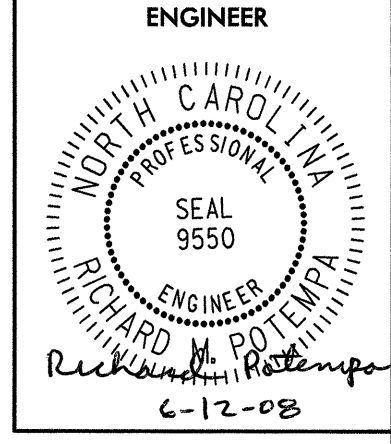
**INTERSECTION & DRIVEWAY DETAIL**

SEE SHEET 6 & 7 FOR PLAN VIEW



REVISIONS

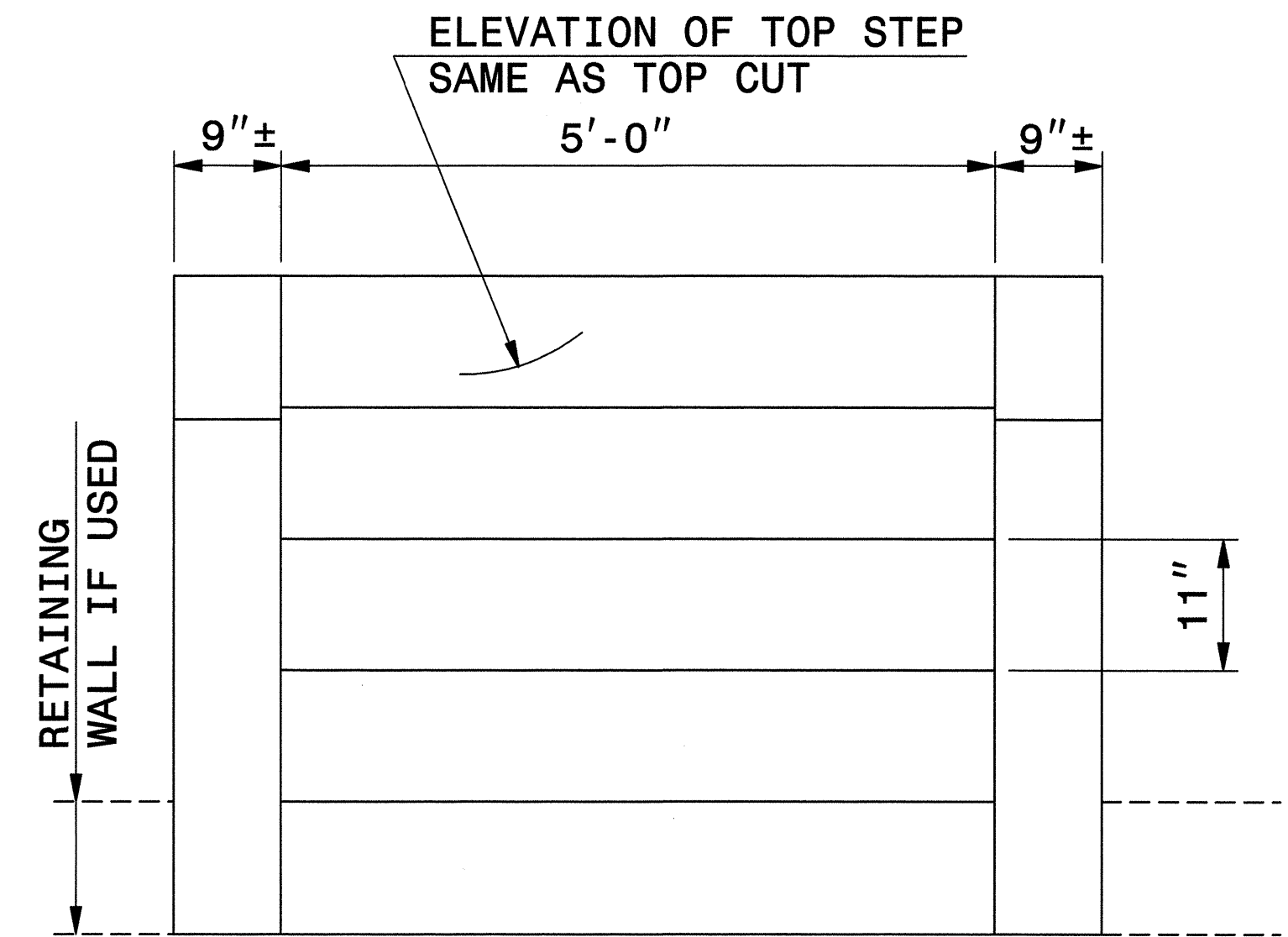
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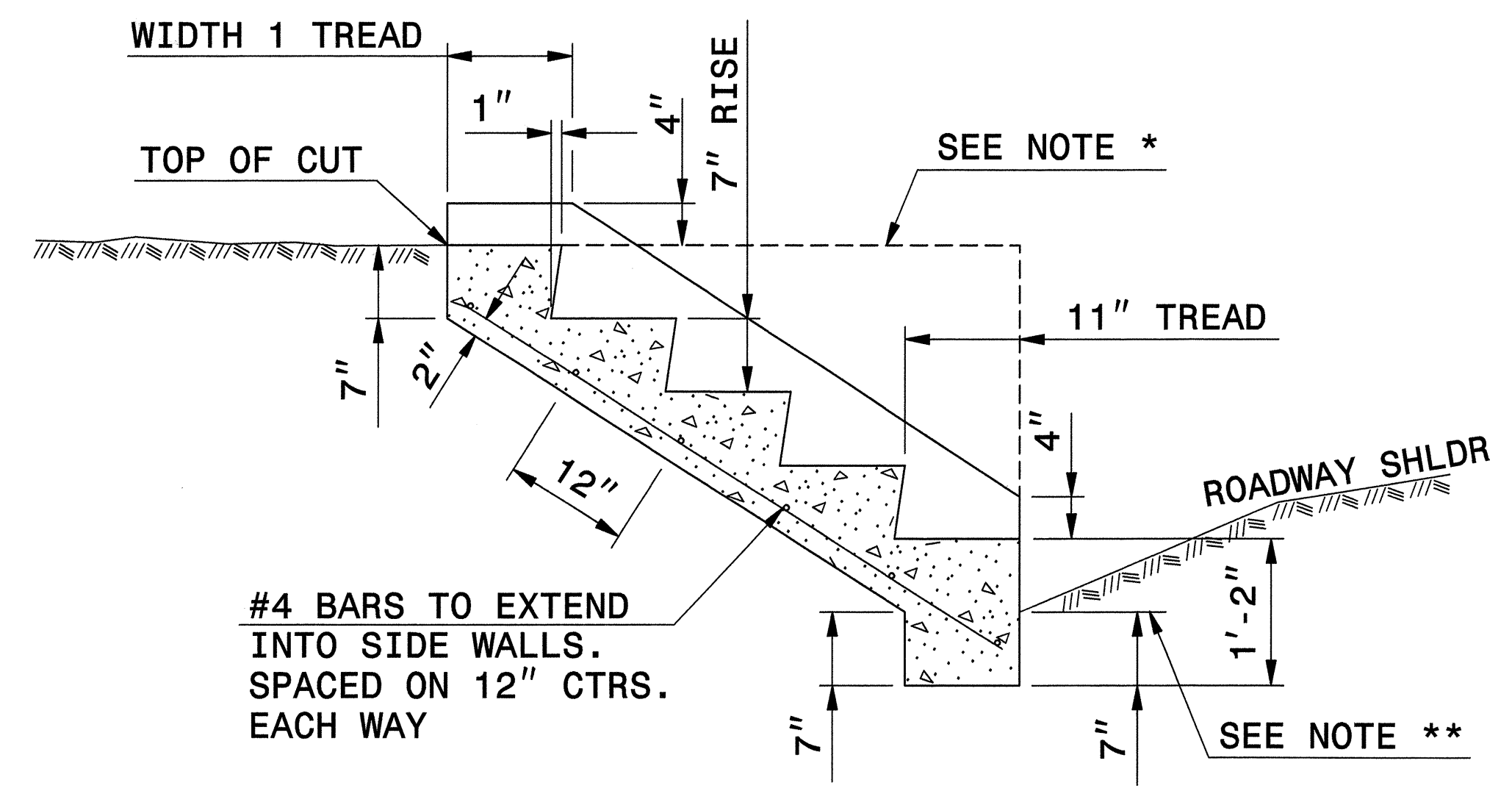
CUBIC YARDS IN STANDARD CONCRETE STEPS					
NO. OF STEPS	4' WIDE	5' WIDE	6' WIDE	7' WIDE	ADDITIONAL CU. YDS. PER 1' WIDTH
2	0.4	0.5	0.5	0.6	0.1
3	0.6	0.7	0.8	0.9	0.1
4	0.8	0.9	1.0	1.2	0.1
5	1.0	1.2	1.3	1.4	0.1
6	1.2	1.4	1.5	1.7	0.2
7	1.4	1.6	1.8	2.0	0.2
8	1.6	1.8	2.0	2.3	0.2
9	1.8	2.0	2.3	2.6	0.3
10	2.0	2.3	2.5	2.8	0.3
ADDITIONAL STEP INCREMENT	0.2	0.2	0.2	0.3	0.1

GENERAL NOTES:

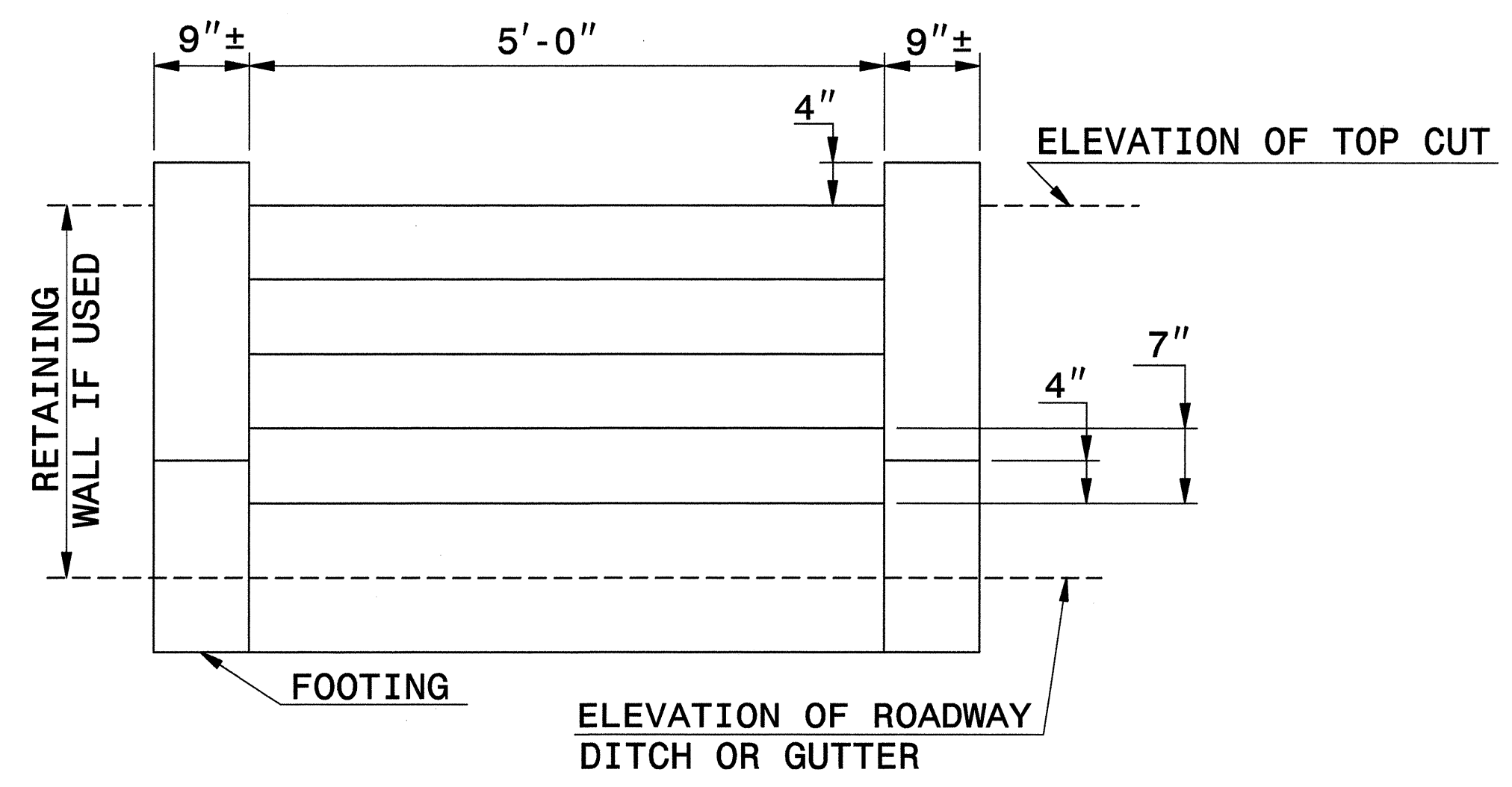
- USE CLASS "B" CONCRETE THROUGHOUT FOR CONCRETE STEPS.
- LOCATIONS AND QUANTITIES SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER.
- \* WHERE STEPS ARE CONSTRUCTED THRU THE RETAINING WALLS, RAISE THE SIDE WALLS OF THE STEPS LEVEL WITH THE TOP OF THE RETAINING WALL. SEE DASHED LINES.
- \*\* WHERE SIDEWALKS ARE PROPOSED OR EXISTING, THIS IS TO BE THE TOP OF THE SIDEWALK. USE UNCORED BRICK.



PLAN



SECTION  
 CONCRETE STEPS



FRONT ELEVATION

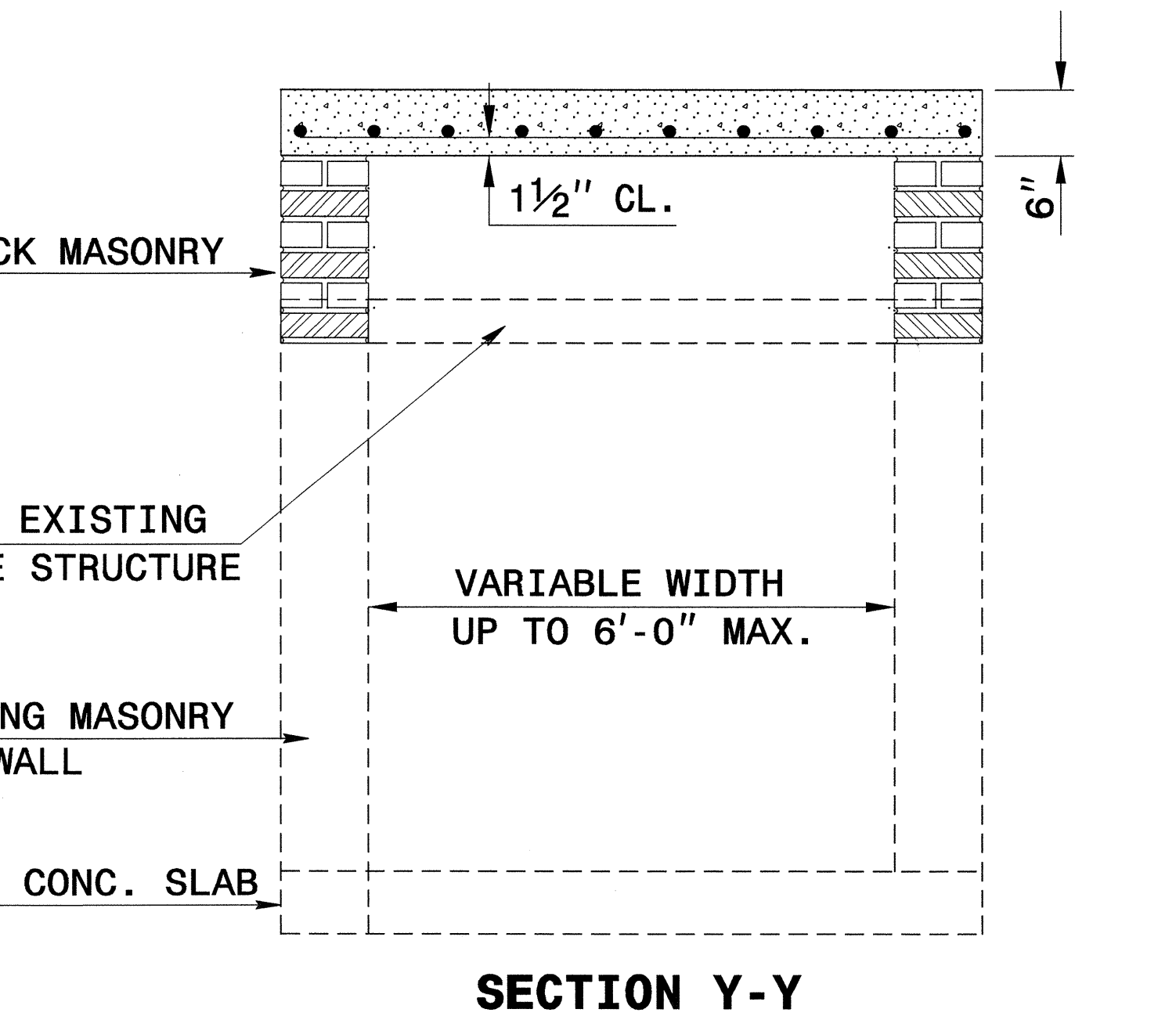
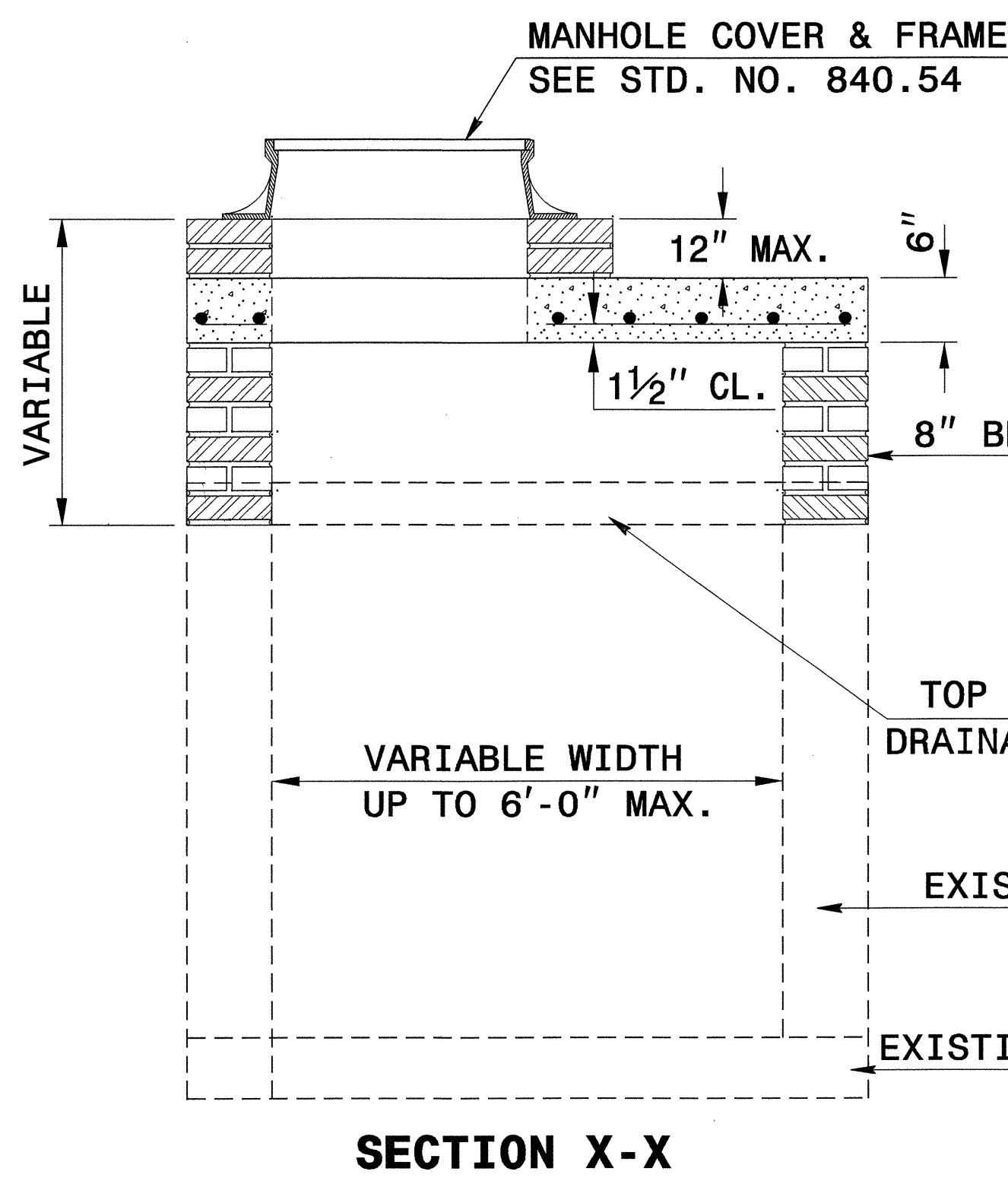
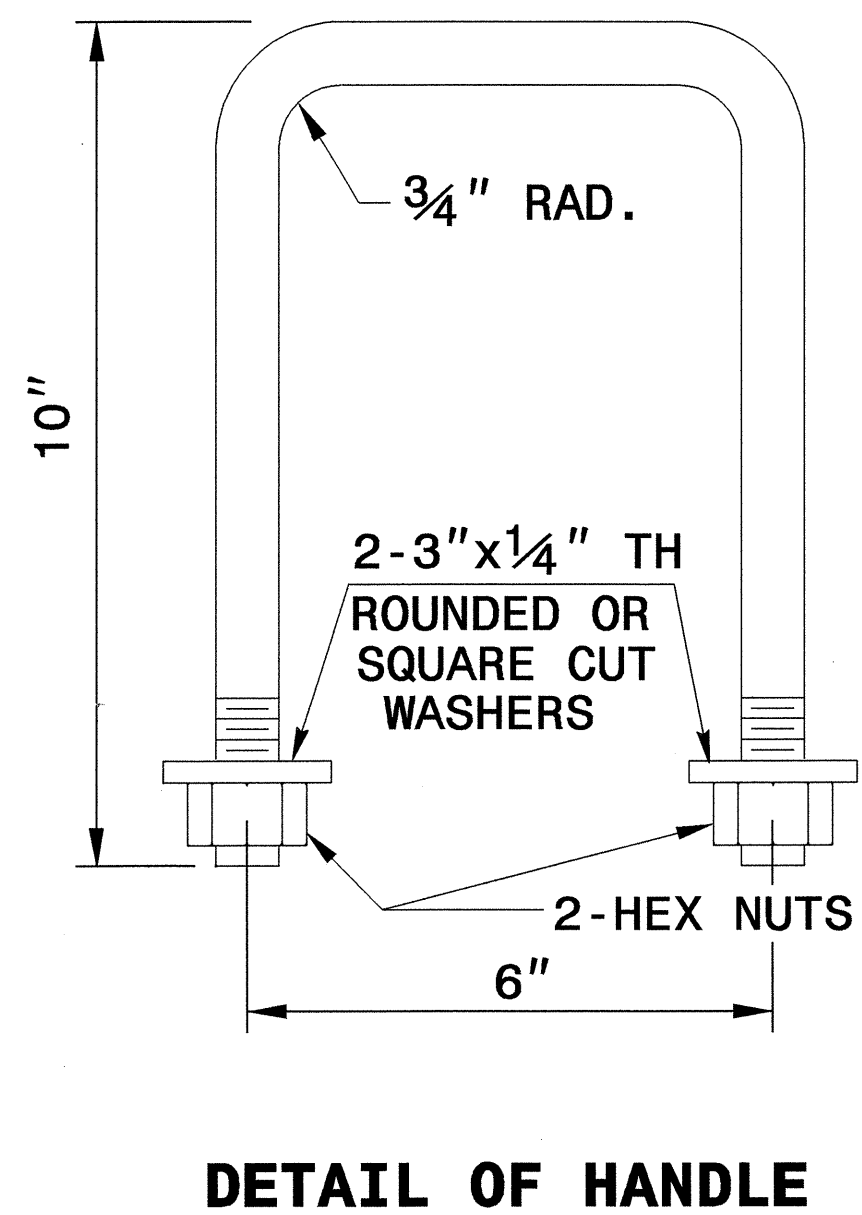
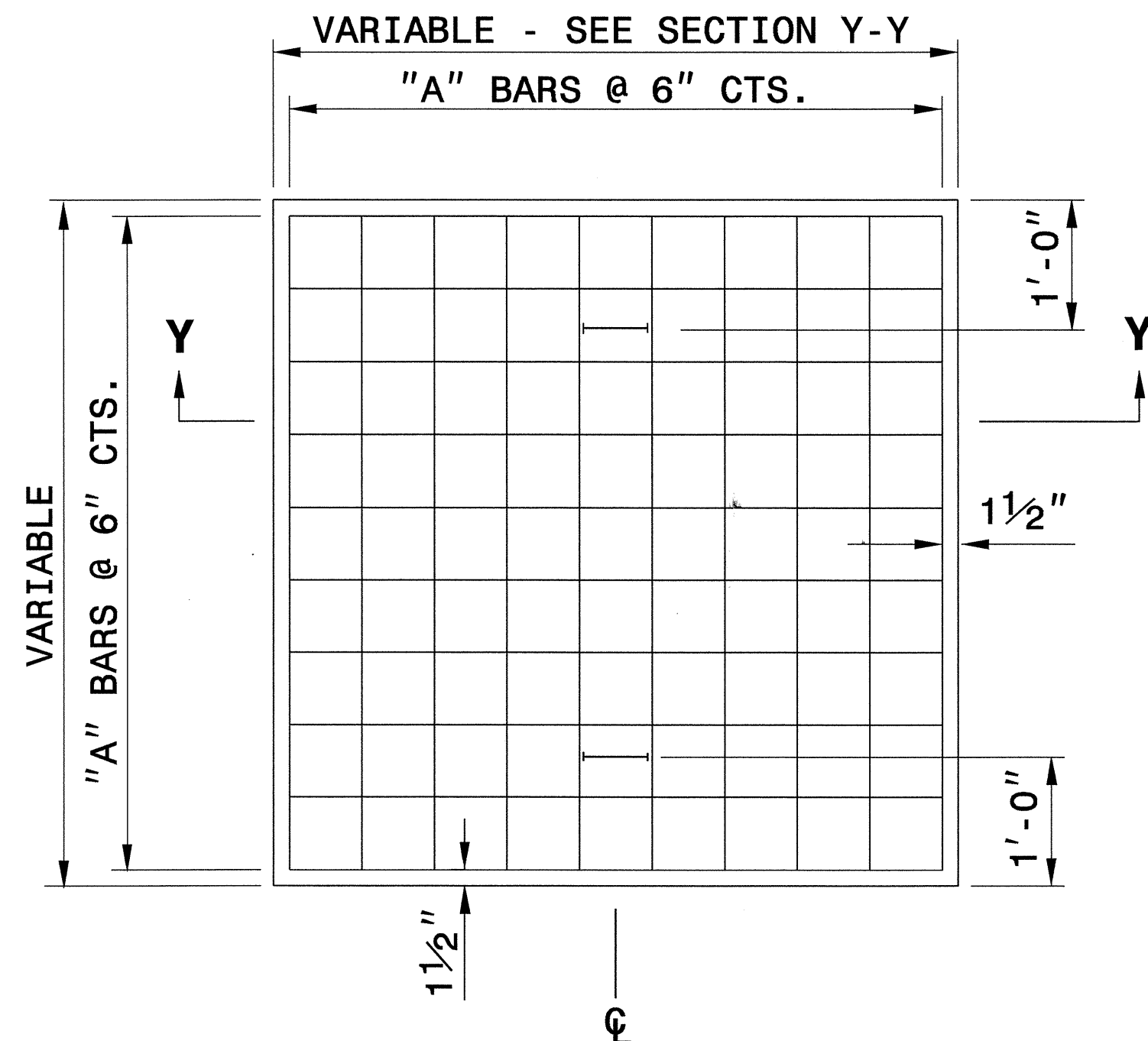
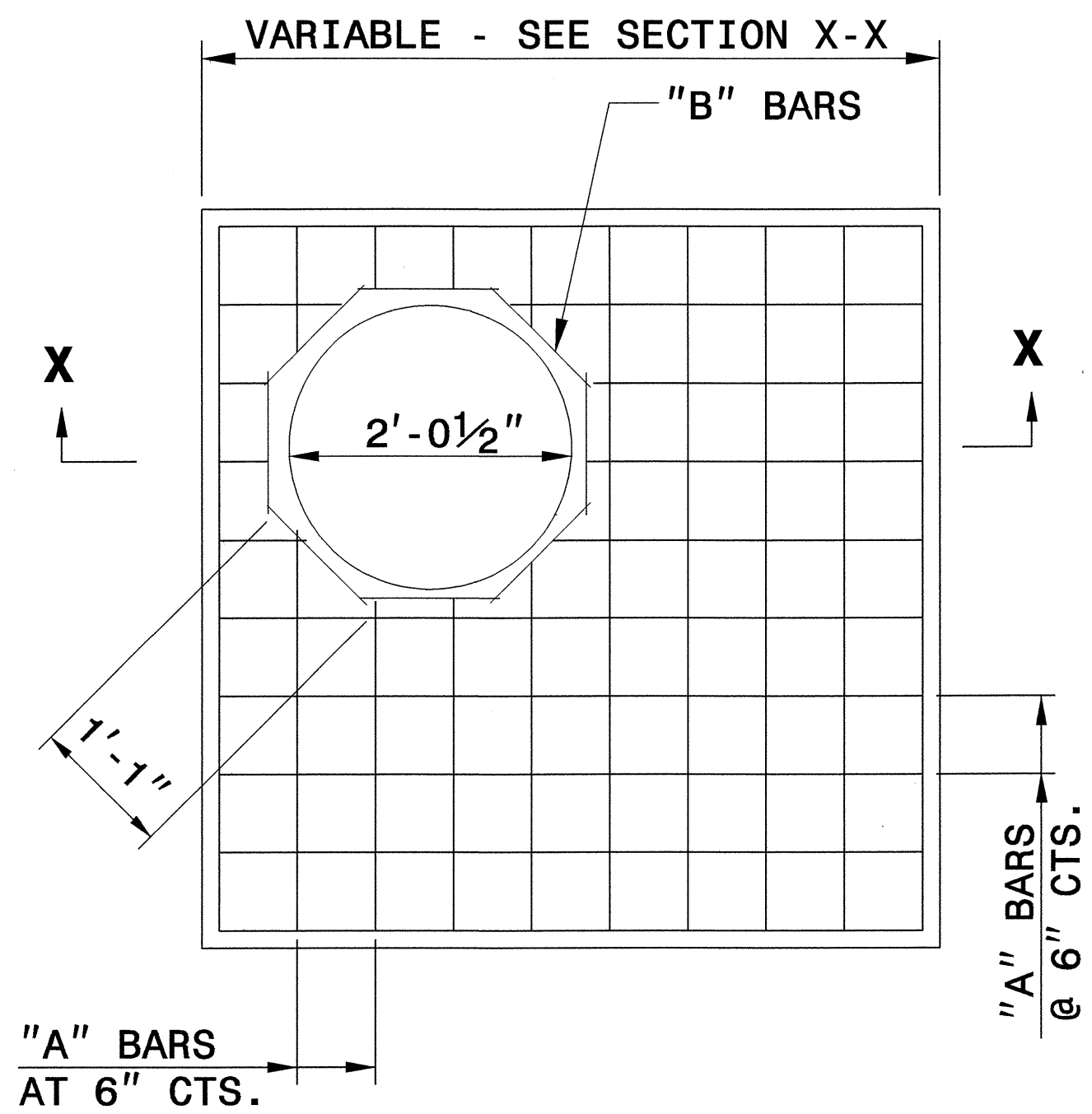
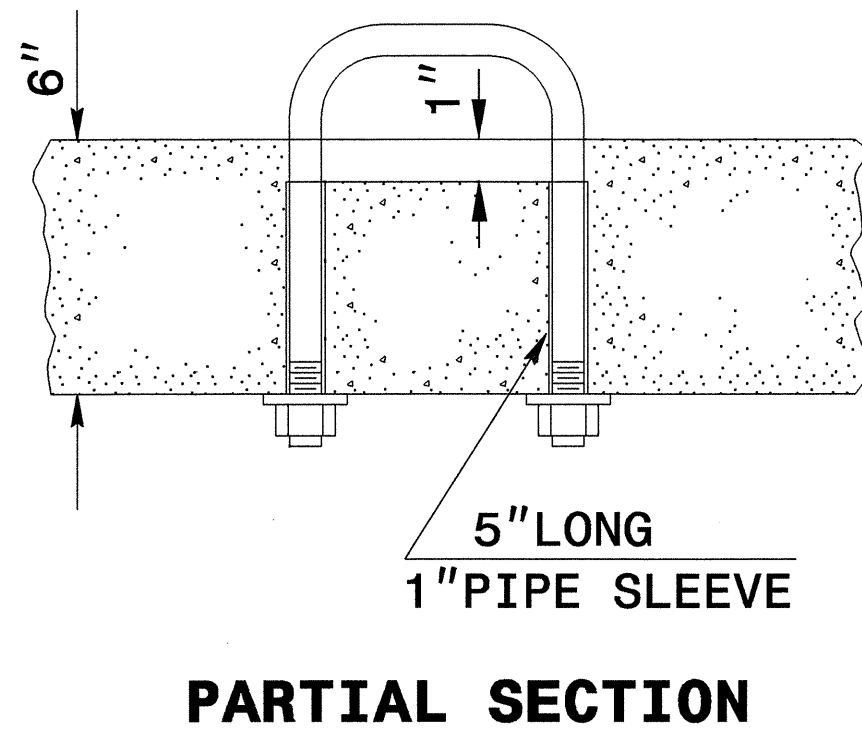
CONCRETE STEPS DETAIL

REVISIONS

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5/14/99



GENERAL NOTES:

CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.

THE DIMENSIONS FOR THE EXISTING BOXES ARE APPROXIMATE AND MAY VARY SLIGHTLY.

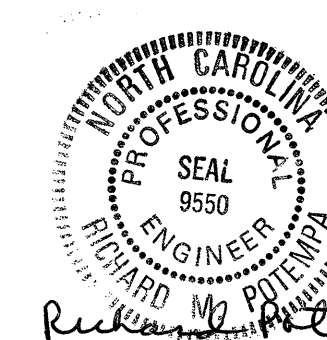
DETAIL INTENDED FOR NON-Traffic BEARING DRAINAGE STRUCTURES.

**BILL OF MATERIALS**

**REINFORCING STEEL**

CODE	SIZE	QTY.	LENGTH	REINF. STEEL LBS.
A	#4	20	4'-6"	60.12
B	#4	8	1'-1"	5.79
<b>TOTAL</b>				<b>65.91 *</b>
<b>MASONRY</b>				<b>CU YDS</b>
TOP SLAB CONCRETE CLASS "B"				.4326 *
BRICK MASONRY PER FT HT (MIN)				.4111

**\* NOTE:**  
 QUANTITIES BASED ON 3'-6" X 3'-6" DRAINAGE STRUCTURE. ADJUST QUANTITIES FOR LARGER STRUCTURES AND MANHOLE CONSTRUCTION.



6-9-08

**DESIGN SERVICES UNIT  
 STANDARDS AND SPECIAL DESIGN**  
 Office 919-250-4128 FAX 919-250-4119

**DETAIL TO CONVERT EXISTING  
 DROP INLET OR CATCH BASIN  
 TO JUNCTION BOX  
 (MANHOLE OPTIONAL)**

ORIGINAL BY: T.S.S.	DATE: NOV. 1997
MODIFIED BY: T.S.S.	DATE: FEB. 2000
CHECKED BY: <i>[Signature]</i>	DATE: 5/24/08
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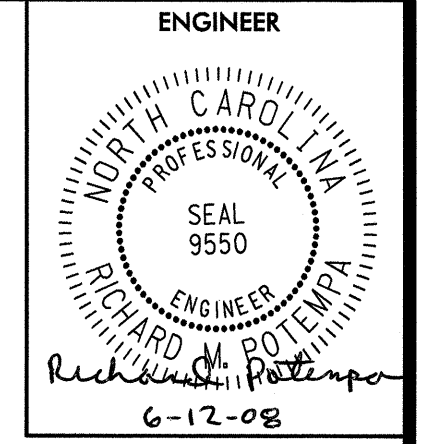
\*\*\*\*\* SYSTEM \*\*\*\*\*  
 \*\*\*\*\* USERNAME \*\*\*\*\*  
 \*\*\*\*\*

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201858

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	4430000000-N	1130	250	EA	DRUMS	6021000000-E	1620	1	TON	FERTILIZER FOR TEMPORARY SEEDING
0043000000-N	226	Lump Sum		GRADING	4435000000-N	1135	30	EA	CONES	6030000000-E	1630	500	CY	SILT EXCAVATION
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	4445000000-E	1145	360	LF	BARRICADES (TYPE III)	6036000000-E	1631	1,300	SY	MATting FOR EROSION CONTROL
0134000000-E	240	87	CY	DRAINAGE DITCH EXCAVATION	4455000000-N	1150	2,000	MD	FLAGGER	6042000000-E	1632	1,800	LF	1/4" HARDWARE CLOTH
0318000000-E	300	460	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	4480000000-N	1165	2	EA	TMIA	6071030000-E	SP	150	LF	COIR FIBER BAFFLES
0372000000-E	310	696	LF	18" RC PIPE CULVERTS, CLASS III	4510000000-N	SP	100	HR	POLICE	6084000000-E	1660	1	ACR	SEEDING & MULCHING
0378000000-E	310	303	LF	24" RC PIPE CULVERTS, CLASS III	4516000000-N	1180	25	EA	SKINNY DRUM	6087000000-E	1660	10	ACR	MOWING
0708000000-E	310	2,684	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	4835000000-E	1205	1,240	LF	PAINT PAVEMENT MARKING LINES (24")	6090000000-E	1661	30	LB	SEED FOR REPAIR SEEDING
0714000000-E	310	573	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	4845000000-N	1205	41	EA	PAINT PAVEMENT MARKING SYMBOL	6114000000-N	SP	20	HR	SPECIALIZED HAND MOWING
0995000000-E	340	361	LF	PIPE REMOVAL	4847000000-E	1205	11,566	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)	6117000000-N	SP	10	EA	RESPONSE FOR EROSION CONTROL
1220000000-E	545	250	TON	INCIDENTAL STONE BASE	4847100000-E	1205	2,995	LF	POLYUREA PAVEMENT MARKING LINES (8", *****) (HIGHLY REFLECTIVE ELEMENTS)	6890000000-E	SP	5	CY	CONCRETE STEPS
1308000000-E	607	2,000	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH (0" TO 3")	4847140000-E	1205	620	LF	POLYUREA PAVEMENT MARKING LINES (24", *****) (HIGHLY REFLECTIVE ELEMENTS)	7000000000-E	1705	26	EA	PEDESTRIAN SIGNAL HEAD (**, ** SECTION) (16", 1 SECTION WITH COUNTDOWN)
1489000000-E	610	4,600	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	4847200000-N	1205	24	EA	POLYUREA PAVEMENT MARKING CHARACTER (*****) (HIGHLY REFLECTIVE ELEMENTS)	7060000000-E	1705	6,700	LF	SIGNAL CABLE
1498000000-E	610	2,150	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	4847220000-N	1205	77	EA	POLYUREA PAVEMENT MARKING SYMBOL (*****) (HIGHLY REFLECTIVE ELEMENTS)	7120000000-E	1705	46	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
1519000000-E	610	4,100	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	4847220000-N	1205	77	EA	POLYUREA PAVEMENT MARKING SYMBOL (*****) (HIGHLY REFLECTIVE ELEMENTS)	7132000000-E	1705	2	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
1560000000-E	620	545	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4850000000-E	1205	500	LF	REMOVAL OF PAVEMENT MARKING LINES (4")	7144000000-E	1705	4	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
1693000000-E	654	900	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	5255000000-N	1413	Lump Sum		PORTABLE LIGHTING	7264000000-E	1710	770	LF	MESSENGER CABLE (3/8")
2264000000-E	840	1	CY	PIPE PLUGS	5325800000-E	1510	695	LF	8" WATER LINE	7288000000-E	1715	120	LF	PAVED TRENCHING (*****) (1, 2")
2286000000-N	840	53	EA	MASONRY DRAINAGE STRUCTURES	5326200000-E	1510	5,119	LF	12" WATER LINE	7300000000-E	1715	760	LF	UNPAVED TRENCHING (*****) (1, 2")
2308000000-E	840	4	LF	MASONRY DRAINAGE STRUCTURES	5536000000-E	1515	1	EA	2" VALVE	7301000000-E	1715	460	LF	DIRECTIONAL DRILL (*****) (3, 2")
2364000000-N	840	11	EA	FRAME WITH TWO GRATES, STD 840.16	5546000000-E	1515	16	EA	8" VALVE	7301000000-E	1715	460	LF	DIRECTIONAL DRILL (*****) (4, 2")
2374000000-N	840	6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	5558000000-E	1515	14	EA	12" VALVE	7324000000-N	1716	10	EA	JUNCTION BOX (STANDARD SIZE)
					5571000000-E	1515	1	EA	*** TAPPING VALVE (2")	7348000000-N	1716	16	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)
2374000000-N	840	17	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	5572200000-E	1515	1	EA	12" TAPPING VALVE	7360000000-N	1720	14	EA	WOOD POLE
2374000000-N	840	11	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	5589100000-E	1515	1	EA	1" AIR RELEASE VALVE	7372000000-N	1721	28	EA	GUY ASSEMBLY
2396000000-N	840	4	EA	FRAME WITH COVER, STD 840.54	5643000000-E	1515	1	EA	*** WATER METER (1")	7396000000-E	1722	2	EA	1/2" RISER WITH WEATHERHEAD
2549000000-E	846	9,380	LF	2'-6" CONCRETE CURB & GUTTER	5643100000-E	1515	17	EA	3/4" WATER METER	7408000000-E	1722	4	EA	1" RISER WITH WEATHERHEAD
2591000000-E	848	4,200	SY	4" CONCRETE SIDEWALK	5643200000-E	1515	3	EA	2" WATER METER	7420000000-E	1722	12	EA	2" RISER WITH WEATHERHEAD
2605000000-N	848	60	EA	CONCRETE WHEELCHAIR RAMPS	5648000000-N	1515	1	EA	RELOCATE WATER METER	7444000000-E	1725	4,250	LF	INDUCTIVE LOOP SAWCUT
2612000000-E	848	650	SY	6" CONCRETE DRIVEWAY	5649000000-N	1515	5	EA	RECONNECT WATER METER	7456000000-E	1726	5,295	LF	LEAD-IN CABLE (*****) (14-2)
2830000000-N	858	12	EA	ADJUSTMENT OF MANHOLES	5666000000-E	1515	9	EA	FIRE HYDRANT	7575142000-N	SP	4	EA	900MHZ WIRELESS RADIO SYSTEM
2845000000-N	858	63	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	5691200000-E	1520	151	LF	6" SANITARY GRAVITY SEWER	7588000000-N	SP	9	EA	METAL POLE WITH SINGLE MAST ARM
2860000000-N	859	1	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX	5691300000-E	1520	702	LF	8" SANITARY GRAVITY SEWER	7613000000-N	SP	9	EA	SOIL TEST
2905000000-N	859	1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	5691500000-E	1520	160	LF	12" SANITARY GRAVITY SEWER	7614100000-E	SP	54	CY	DRILLED PIER FOUNDATION
3030000000-E	862	275	LF	STEEL BM GUARDRAIL	5768000000-N	1520	6	EA	SANITARY SEWER CLEAN-OUT	7624000000-N	1743	3	EA	SIGNAL PEDESTAL WITH FOUNDATION
3105000000-N	862	10	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	5775000000-E	1525	11	EA	4" DIA UTILITY MANHOLE	7631000000-N	SP	9	EA	MAST ARM WITH METAL POLE DESIGN
3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS	5776000000-E	1525	1	EA	5" DIA UTILITY MANHOLE	7636000000-N	1745	6	EA	SIGN FOR SIGNALS
3656000000-E	876	250	SY	FILTER FABRIC FOR DRAINAGE	5781000000-E	1525	33.5	LF	UTILITY MANHOLE WALL, 4" DIA	7648000000-N	SP	6	EA	RELOCATE EXISTING SIGN
4072000000-E	903	168	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	5782000000-E	1525	1.5	LF	UTILITY MANHOLE WALL, 5" DIA	7684000000-N	1750	4	EA	SIGNAL CABINET FOUNDATION
4078000000-E	903	20	EA	SUPPORTS, 2-LB STEEL U-CHANNEL	5801000000-E	1530	2,182	LF	ABANDON 8" UTILITY PIPE	7756000000-N	1751	4	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
4102000000-N	904	10	EA	SIGN ERECTION, TYPE E	5815000000-N	1530	33	EA	REMOVE WATER METER	7780000000-N	1751	23	EA	DETECTOR CARD (TYPE 2070L)
4116100000-N	904	30	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)	5815500000-N	1530	9	EA	REMOVE FIRE HYDRANT	7901000000-N	1753	4	EA	CABINET BASE EXTENDER
4400000000-E	1110	960	SF	WORK ZONE SIGNS (STATIONARY)	5828000000-N	1530	12	EA	REMOVE UTILITY MANHOLE	7980000000-N	SP	2	EA	GENERIC SIGNAL ITEM FURNISH WIRELESS RADIO LIGHTNING ARRESTOR
4405000000-E	1110	560	SF	WORK ZONE SIGNS (PORTABLE)	6000000000-E	1605	5,900	LF	TEMPORARY SILT FENCE	7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM FURNISH WIRELESS RADIO MODEM
4410000000-E	1110	122	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	6006000000-E	1610	100	TON	STONE FOR EROSION CONTROL, CLASS A	7980000000-N	SP	3	EA	GENERIC SIGNAL ITEM POWDER COAT FOR PEDESTRIAN PEDESTAL
4415000000-N	1115	2	EA	FLASHING ARROW PANELS, TYPE C	6009000000-E	1610	120	TON	STONE FOR EROSION CONTROL, CLASS B	7980000000-N	SP	9	EA	GENERIC SIGNAL ITEM POWDER COAT FOR SINGLE MAST ARM WITH METAL POLE
4420000000-N	1120	4	EA	CHANGEABLE MESSAGE SIGN	6012000000-E	1610	110	TON	SEDIMENT CONTROL STONE	8203000000-E	420	310	CY	CLASS A CONCRETE (RETAINING WALL)
					6015000000-E	1615	1	ACR	TEMPORARY MULCHING	8832000000-N	SP	Lump Sum		GENERIC RETAINING WALL ITEM ARCHITECTURAL CONCRETE SURFACE TREATMENT
					6018000000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING					

REVISIONS

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# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS RIGHT OF WAY AREA DATA

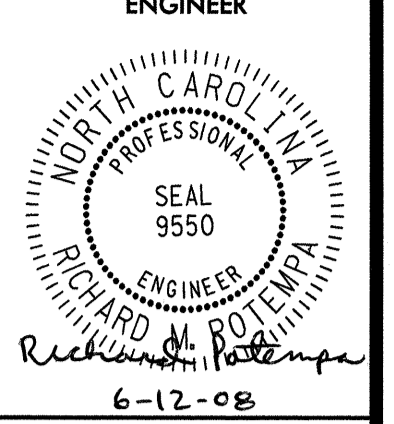
REVISIONS

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL AREA	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	TEMPORARY CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT
1	KRISTA MATEAKI	13494 SF	—	—	13494 SF	—	—
2	CONNIE T CLARIS	1.05 AC	—	1.05 AC	—	—	—
3	GRACE EVANGELICAL LUTHERAN CHURCH	7.84 AC	21536 SF	—	7.35 AC	8804 SF	—
4	COR ENTERPRISES HENDERSONVILLE, LLC	41987 SF	3432 SF	38555 SF	—	1424 SF	—
5	EDNEY INVESTMENTS LLC	34904 SF	2325 SF	32579 SF	—	1877 SF	—
7	MEDWEST, LLC	1.29 AC	3050 SF	1.22 AC	—	1965 SF	—
11	OAKDALE CEMETERY CITY OF HENDERSONVILLE	17.48 AC	16572 SF	17.10 AC	—	2133 SF	—
12	STUART J & STACI W BLATT	1.01 AC	6265 SF	—	37611 SF	470 SF	—
13	OAKDALE CEMETERY	39918 SF	3557 SF	—	36361 SF	—	—
14	OAKDALE CEMETERY	1.26 AC	4048 SF	—	1.17 AC	—	—
15	HENDERSONVILLE HOUSING AUTHORITY	3.79 AC	5424 SF	3.67 AC	—	4918 SF	—
16	HENDERSONVILLE ASSOCIATES LLC	2.23 AC	14174 SF	—	1.90 AC	2109 SF	—
17	Y M C A	5.01 AC	8195 SF	4.82 AC	—	4813 SF	—
18	GARY C & CINDY C JONES	17617 SF	3440 SF	—	14177 SF	666 SF	—
20	ST PAUL TABERNACLE AME ZION CHURCH	37414 SF	6079 SF	—	31335 SF	2156 SF	—
22	JESSE C L McCALL	1.05 AC	3621 SF	—	42269 SF	1393 SF	—
23	THOMAS A PINNER TRUST	9807 SF	2163 SF	7644 SF	—	268 SF	—
24	HENDERSON CO BOARD OF TRUSTEES FOR PARDEE MEMORIAL HOSPITAL	4.12 AC	3078 SF	—	4.05 AC	2461 SF	—

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL AREA	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	TEMPORARY CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT
25	REGIONAL CONSULTANTS PROPERTIES, LLC	20129 SF	2838 SF	17291 SF	—	1376 SF	—
26	PISGAH SURGICAL CENTER MANAGEMENT	30252 SF	2379 SF	—	27873 SF	1559 SF	—
27	6TH AVENUE, LLC	24130 SF	3047 SF	21083 SF	—	1089 SF	—
28	MBA, LLC	35211 SF	5027 SF	—	30184 SF	1847 SF	—
29	HENDERSON COUNTY	16852 SF	1470 SF	15382 SF	—	720 SF	—
30	ALEXANDER CLINIC, INC	21473 SF	2476 SF	18997 SF	—	1484 SF	—
31	SIDNEY E KIRKLEY	26627 SF	4010 SF	22617 SF	—	1367 SF	—
32	WCCC PROPERTIES, LLC	17086 SF	4573 SF	—	12513 SF	28 SF	—
33	PROVIDENCE PROPERTIES OF HENDERSONVILLE, LLC	19315 SF	2601 SF	16714 SF	—	1393 SF	—
34	HENDERSON COUNTY BOARD OF TRUSTEES FOR THE PARDEE MEMORIAL HOSPITAL	1.32 AC	2558 SF	—	1.26 AC	1125 SF	—
35	SURGICAL FELLOWS, LLC	21031 SF	5058 SF	15973 SF	—	1034 SF	—
36	HENDERSON COUNTY	36304 SF	4585 SF	—	31719 SF	1844 SF	—
37	SURGICAL FELLOWS	15185 SF	3868 SF	11317 SF	—	531 SF	—
38	HOLLY CREST CONDOMINIUMS	1.41 AC	5884 SF	—	1.28 AC	1645 SF	—
39	6TH AVENUE APARTMENT PARTNERS, LLC	1.66 AC	4190 SF	1.56 AC	—	2304 SF	—
40	JOHN D BELL, MD	10399 SF	1970 SF	—	8429 SF	409 SF	195 SF
41	JEFFREY LANE COOPER	12057 SF	1288 SF	10769 SF	—	867 SF	—
42	ROMAN CATHOLIC DIO/CHARLOTTE	2.70 AC	8136 SF	—	2.51 AC	2464 SF	—
43	STEPHEN F FRANKS	39238 SF	1497 SF	37741 SF	—	947 SF	—
44	FIRST BAPTIST CHURCH OF HENDERSONVILLE	2.68 AC	4551 SF	2.58 AC	—	2027 SF	—
45	ROMAN CATHOLIC DIO/CHARLOTTE	1.78 AC	428 SF	—	1.77 AC	—	—
46	FIRST UNITED METHODIST CHURCH	3.16 AC	1224 SF	3.13 AC	—	—	—

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

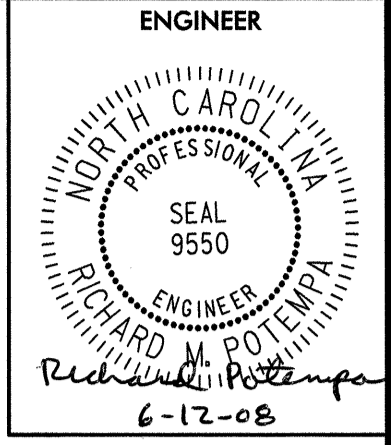
## LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)



REVISIONS

STATION	SIZE	LOCATION (LT, RT, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)			18" RC PIPE CULVERTS, CLASS III	24" RC PIPE CULVERTS, CLASS III	J.B. STD. 840.31 OR STD. 840.32	M.H. FRAME & COVER, STD. 840.54	C.B. STD. 840.01 OR STD. 840.02	FRAME WITH GRATE & HOOD, STD. 840.03			C.B. STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME W/ 2 GRATES, STD. 840.16	MASONARY DRAIN STRUCTURES (LF)	CONVERT EXISTING DI TO JB	CONVERT EXISTING CB TO JB	MASONARY DRAIN STRUCTURES (EA)	REMARKS			
								.064	.064	15"						18"	E	F									G		
								THICKNESS OR GAUGE	FROM	TO																			
112+16 -L-	12	LT	1	2219.36		2216.36								1															
111+13 -L-	12	LT	2	2215.46	2212.46	2212.21								1															
			1					98																					
111+13 -L-	12	RT	3	2215.40	2211.88	2211.63								1															
			2					33																					
106+17 -L-	12	RT	4	2200.76	2197.51	2196.50								1	1														
			3					482																					
105+92 -L-	12	RT	5	2201.20	2195.50	2194.59							1							0.14	1								
			4					20																					
120+44 -L-	12	RT	7	2232.45		2229.45								1		1													
121+53 -L-	12	RT	8	2232.06	2228.74	2228.49								1		1													
			7					105																					
122+72 -L-	12	RT	9	2230.22	2227.21	2226.96								1		1													
			8					115																					
126+77 -L-	12	RT	10	2209.52	2206.27	2206.02								1		1													
			9					398																					
126+77 -L-	12	LT	12	2209.52	2205.69	2205.44								1		1													
			10					33																					
126+77 -L-	12	LT	13	2209.00		2206.00																							
			13					7																					
130+97 -L-	12	LT	14	2187.25	2184.00	2183.75								1		1													
			12					410																					
130+97 -L-	12	RT	21	2188.02		2185.45														1	1								
			21					44																					
134+61 -L-	12	LT	15	2182.20	2178.57	2178.32								1		1													
			14																										
134+61 -L-	12	RT	22	2182.23		2178.90								1		1													
			22					33																					
135+79 -L-	12	LT	16	2181.08	2176.11	2175.86								1		1													
			15																										
137+33 -L-	12	LT	18	2181.71		2178.71								1		1													
			18					108																					
136+20 -L-	12	LT	17	2181.17	2175.12	2174.87								1		1													
			16																										
136+20 -L-	12	RT	23	2180.50		2177.30																							
			23																										
11+39 -Y3-	12	RT	11	2206.75		2201.75																							
			11					66																					
11+57 -Y5-	12	RT	29	2188.00		2183.00																							
			29					19																					
11+60 -Y5-	12	RT	30	2184.20	2181.95	2181.85																							
			30					25																					
11+60 -Y5-	12	LT	31	2184.30	2181.70	2181.61																							
			31					3																					
11+60 -Y5-	12	LT	25	2186.40	2181.52	2181.27							1	1															
			25					19																					
11+40 -Y5-	12	LT	26	2185.90	2180.13	2179.88																							
			26																										
139+84 -L-	12	LT	32	2182.63		2179.63								1		1													
			32					37																					
142+23 -L-	12	LT	33	2184.50		2178.90																							
			33					28																					
142+54 -L-	12	LT	34	2181.70	2178.70	2178.45								1		1													
			34					6																					
142+64 -L-	12	LT	35	2182.50	2178.41	2178.16																							
			35																										

STATION	SIZE	LOCATION (LT, RT, OR CL)	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)			18" RC PIPE CULVERTS, CLASS III	24" RC PIPE CULVERTS, CLASS III	J.B. STD. 840.31 OR STD. 840.32	M.H. FRAME & COVER, STD. 840.54	C.B. STD. 840.01 OR STD. 840.02	FRAME WITH GRATE & HOOD, STD. 840.03			C.B. STD. 840.04 OR STD. 840.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME W/ 2 GRATES, STD. 840.16	MASONARY DRAIN STRUCTURES (LF)	CONVERT EXISTING DI TO JB	CONVERT EXISTING CB TO JB	MASONARY DRAIN STRUCTURES (EA)	REMARKS			
								.064	.064	15"						18"	E	F									G		
								THICKNESS OR GAUGE	FROM	TO																			
			35	36																									
142+64 -L-	12	LT	36	2181.10	2177.77	2177.52																							
			36					33																					
142+64 -L-	12	RT	37	2181.02	2176.53	2176.28								1		1													
			37					158																					
144+28 -L-	12	RT	38	2175.75	2171.85	2171.60								1		1													
			38					96																					
144+28 -L-	12	LT	39	2178.20		2173.70																							
			39					46																					
12+61 -Y6-	12	RT	40	2174.80		2170.95																							
			40					26																					
12+76 -Y6-	12	RT	41	2173.60	2170.21	2169.96								1		1													
			42					26																					
12+76 -Y6-	12	LT	42	2173.60		2170.60								1		1													
			42					38																					
11+21 -Y6-	12	RT	43	2175.90		2172.90								1		1													
			43					26																					



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	EXCAV	EMBT + %	WASTE
STA 105+16.00 TO STA 153+84.48 -L-	4664	2448	2216
LOSS DUE TO CLEARING & GRUBBING	(508)		(508)
<b>TOTAL</b>	<b>4156</b>	<b>2448</b>	<b>1708</b>
SAY	4200	2500	1700

*NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".*

## REMOVAL OF EXISTING ASPHALT PAVEMENT SUMMARY

LINE	STATION TO STATION	LOCATION	AREA (SY)
-L-	105+78 TO 106+01	RT	15
-L-	117+02 TO 117+44	LT	22
-Y2A-	10+31 TO 10+85	RT	15
-L-	123+48 TO 127+21	RT	223
-L-	129+35 TO 131+14	RT	90
-L-	105+16 TO 153+84 *	LT & RT	145
<b>TOTAL</b>			<b>510</b>

\* AS REQUIRED FOR CURB & GUTTER FORMS

*NOTE: REMOVAL OF EXISTING ASPHALT PAVEMENT IS INCIDENTAL TO LUMP SUM GRADING (SEE EARTHWORK SUMMARY NOTE ON THIS SHEET)*

## PIPE REMOVAL SUMMARY

LINE	STATION	LOCATION	PIPE SIZE / TYPE	LENGTH (LF)
-L-	108+00	LT	18" CMP	95
-L-	110+85	LT	12" CMP	56
-L-	111+13	RT	12" RCP	14
-L-	111+51	RT	12" RCP	21
-L-	113+00	LT	15" CMP	31
-L-	113+74	RT	12" CMP	34
-L-	130+61	RT	12" CMP	16
-Y5-	11+48	LT	12" CMP	23
-Y5-	11+24	LT	15" CMP	26
-Y6-	12+35	RT	15" CMP	32
-Y7-	11+44	LT	15" RCP	13
<b>TOTAL</b>				<b>361</b>

## GUARDRAIL SUMMARY

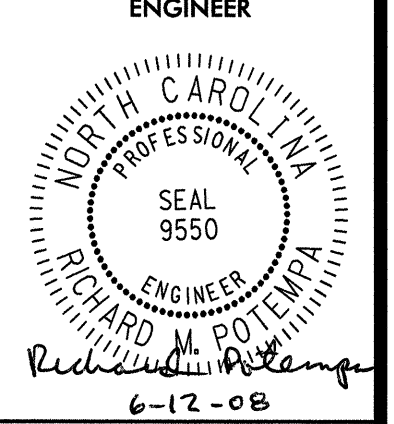
SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH		WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH		W		ANCHORS		REMARKS
				STRAIGHT	SHOP CURVED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE 350	TERM. SECT.	
-L-	133+88	134+67	RT	62.50		133+96	134+65								2	
-L-	137+67	138+34	LT	50.00		137+75	138+30								2	
-L-	137+83	138+81	RT	81.25		137+88	138+73								2	
-L-	142+57	143+30	LT	56.25		142+60	143+09								2	
-L-	147+42	147+84	LT	25.00		147+59	147+80								2	
<b>TOTAL</b>				<b>275</b>											<b>10</b>	
<b>SAY</b>				<b>275</b>											<b>10</b>	

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.  
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.  
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.  
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.

## PIPE PLUG SUMMARY

LINE	STATION	LOCATION	PIPE SIZE / TYPE	VOLUME (CY) (PLUG AT BOTH ENDS)
-Y6-	11+54	CL	12" RCP	0.06
-Y6-	12+35	RT	18" CMP	0.13
-L-	144+97	CL	12" RCP	0.06
-L-	149+22	LT	15" RCP	0.09
-L-	153+26	RT	15" RCP	0.09
<b>TOTAL</b>				<b>0.43</b>
<b>SAY</b>				<b>1</b>

REVISIONS



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PARCEL INDEX SHEET

REVISIONS

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAME
1	4	KRISTA MATEAKI
2	4	CONNIE T CLARIS
3	4	GRACE EVANGELICAL LUTHERAN CHURCH
4	4	COR ENTERPRISES HENDERSONVILLE, LLC
5	4	EDNEY INVESTMENTS LLC
7	4	MEDWEST, LLC
11	4 & 5	OAKDALE CEMETERY CITY OF HENDERSONVILLE
12	4 & 5	STUART J & STACI W BLATT
13	5	OAKDALE CEMETERY
14	5	OAKDALE CEMETERY
15	5	HENDERSONVILLE HOUSING AUTHORITY
16	5	HENDERSONVILLE ASSOCIATES LLC
17	5	Y M C A
18	5	GARY C & CINDY C JONES
20	5	ST PAUL TABERNACLE AME ZION CHURCH
22	5 & 6	JESSE C L McCALL
23	5 & 6	THOMAS A PINNER TRUST
24	6	HENDERSON CO BOARD OF TRUSTEES FOR PARDEE MEMORIAL HOSPITAL
25	6	REGIONAL CONSULTANTS PROPERTIES, LLC
26	6	PISGAH SURGICAL CENTER MANAGEMENT

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAME
27	6	6TH AVENUE, LLC
28	6	MBA, LLC
29	6	HENDERSON COUNTY
30	6	ALEXANDER CLINIC, INC
31	6	SIDNEY E KIRKLEY
32	6	WCCC PROPERTIES, LLC
33	6	PROVIDENCE PROPERTIES OF HENDERSONVILLE, LLC
34	6	HENDERSON COUNTY BOARD OF TRUSTEES FOR THE PARDEE MEMORIAL HOSPITAL
35	6	SURGICAL FELLOWS, LLC
36	6	HENDERSON COUNTY
37	6 & 7	SURGICAL FELLOWS
38	6 & 7	HOLLY CREST CONDOMINIUMS
39	7	6TH AVENUE APARTMENT PARTNERS, LLC
40	7	JOHN D BELL, MD
41	7	JEFFREY LANE COOPER
42	7	ROMAN CATHOLIC DIO/CHARLOTTE
43	7	STEPHEN F FRANKS
44	7	FIRST BAPTIST CHURCH OF HENDERSONVILLE
45	7	ROMAN CATHOLIC DIO/CHARLOTTE
46	7	FIRST UNITED METHODIST CHURCH

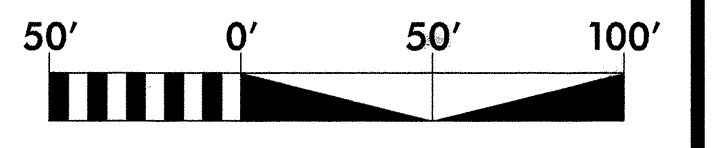
CURVE L-2  
 PI 116+00.21  
 $\Delta$  3° 13' 52.8" (LT)  
 D 0° 34' 22.6"  
 R 10,000.00'  
 Lc 563.97'  
 T 282.06'  
 SE NC

CURVE L-1  
 PI 107+38.32  
 $\Delta$  47° 22' 48.1" (RT)  
 D 8° 48' 53.0"  
 R 650.00'  
 Lc 537.51'  
 T 285.20'  
 SE 0.039  
 RUNOFF 113.10'

NOTE: PARCEL 11, OAKDALE CEMETERY - DELAY IN RIGHT OF ENTRY AND GRAVES TO BE MOVED BY OTHERS (SEE SPECIAL PROVISIONS).

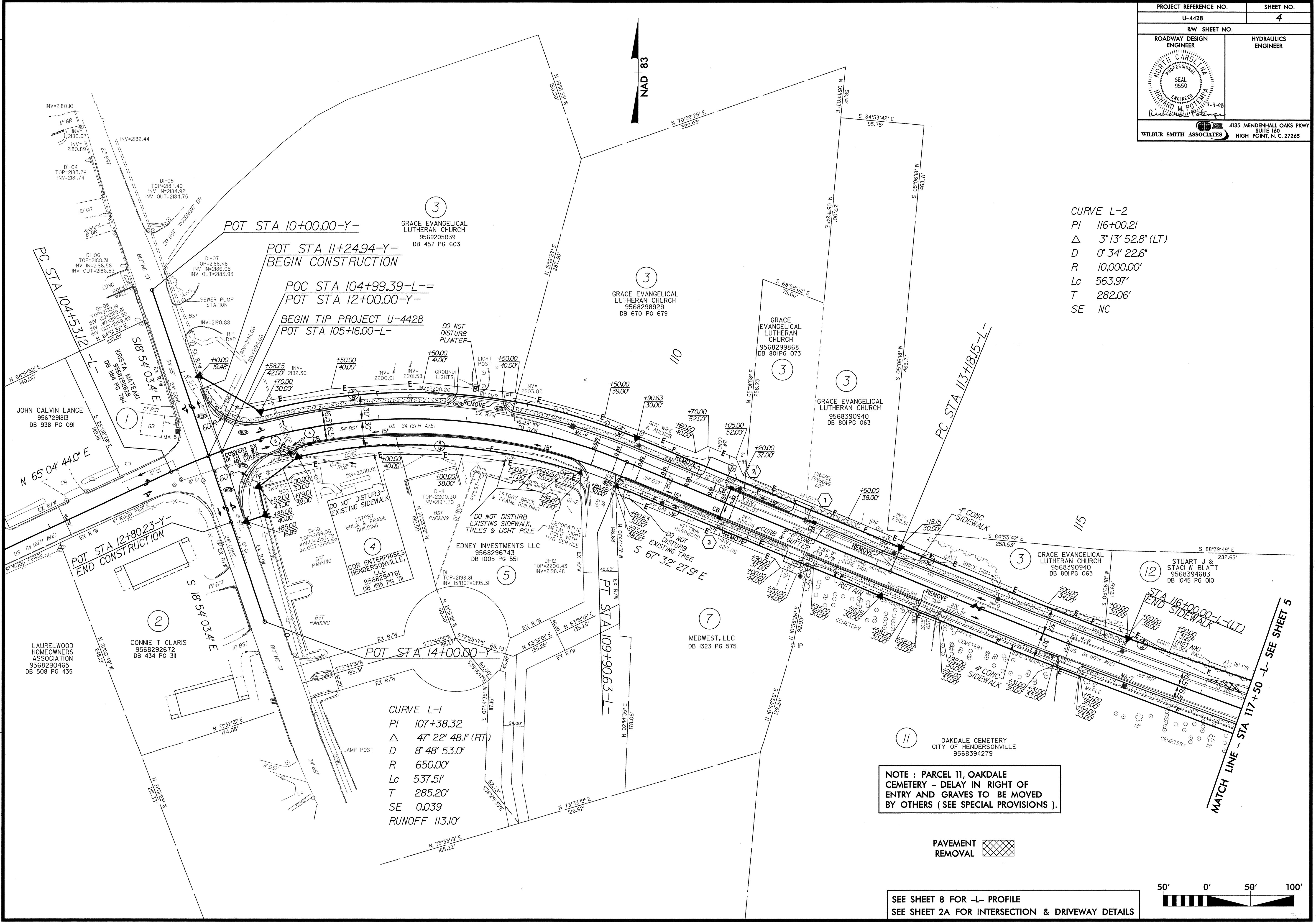
PAVEMENT REMOVAL

SEE SHEET 8 FOR -L- PROFILE  
 SEE SHEET 2A FOR INTERSECTION & DRIVEWAY DETAILS



REVISIONS

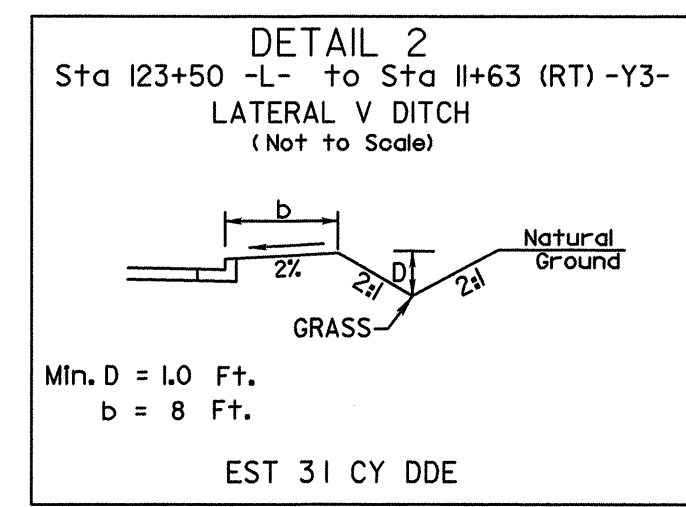
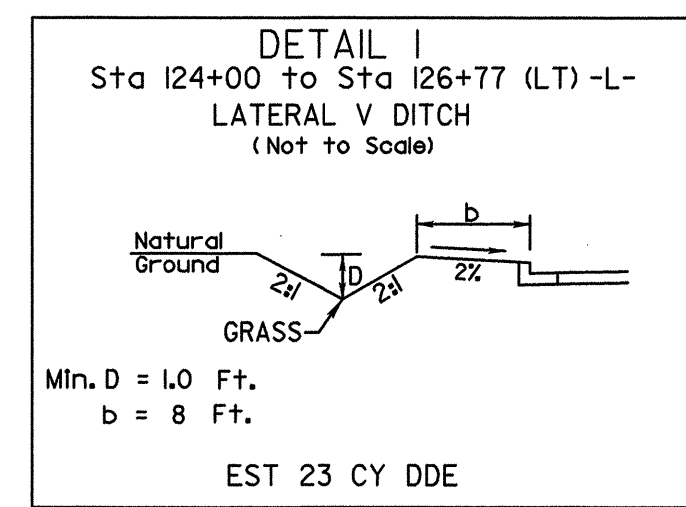
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**CURVE L-2**  
 PI 116+00.21  
 $\Delta$  3° 13' 52.8" (LT)  
 D 0° 34' 22.6"  
 R 10,000.00'  
 Lc 563.97'  
 T 282.06'  
 SE NC

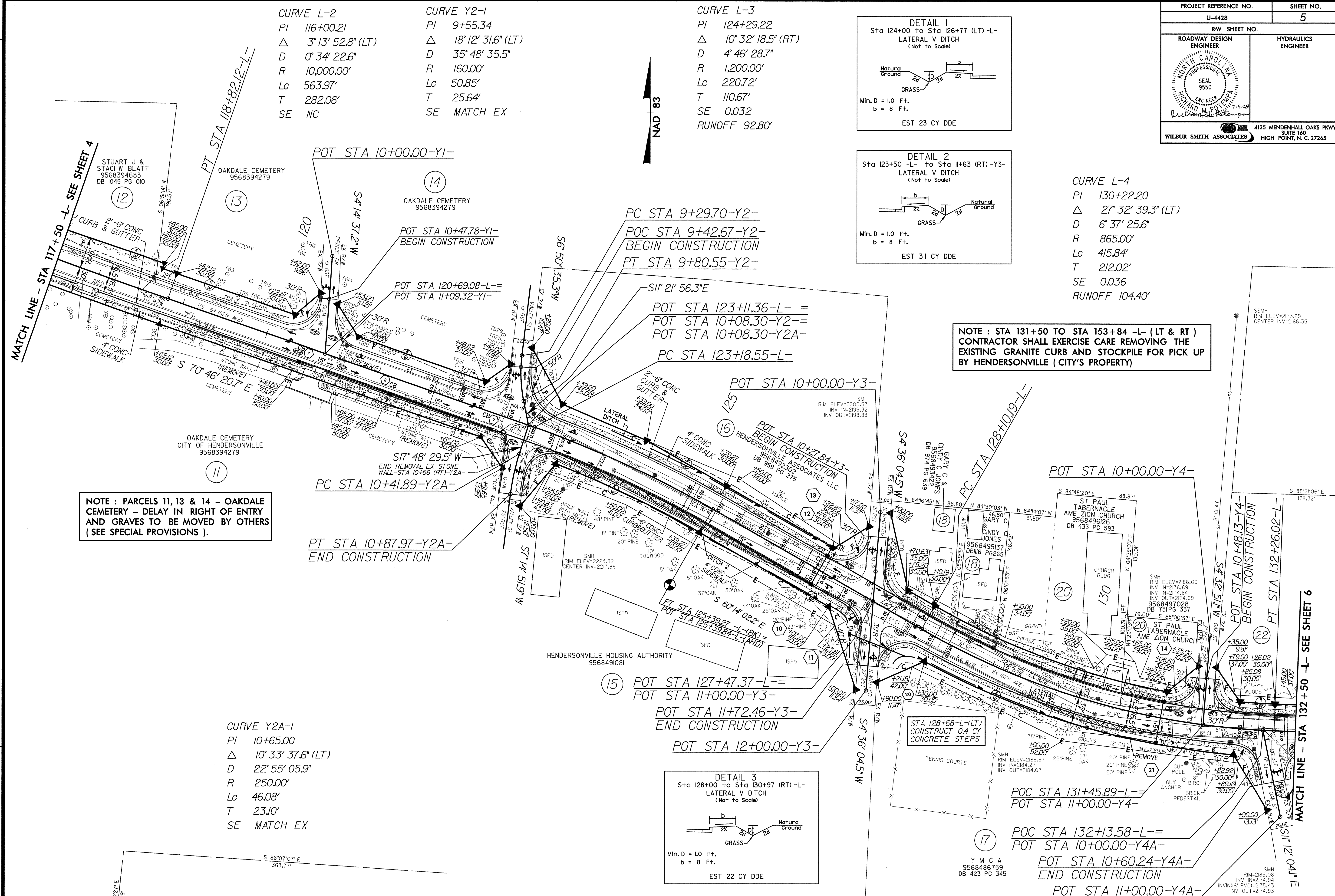
**CURVE Y2-1**  
 PI 9+55.34  
 $\Delta$  18° 12' 31.6" (LT)  
 D 35° 48' 35.5"  
 R 160.00'  
 Lc 50.85'  
 T 25.64'  
 SE MATCH EX

**CURVE L-3**  
 PI 124+29.22  
 $\Delta$  10° 32' 18.5" (RT)  
 D 4° 46' 28.7"  
 R 1,200.00'  
 Lc 220.72'  
 T 110.67'  
 SE 0.032  
 RUNOFF 92.80'



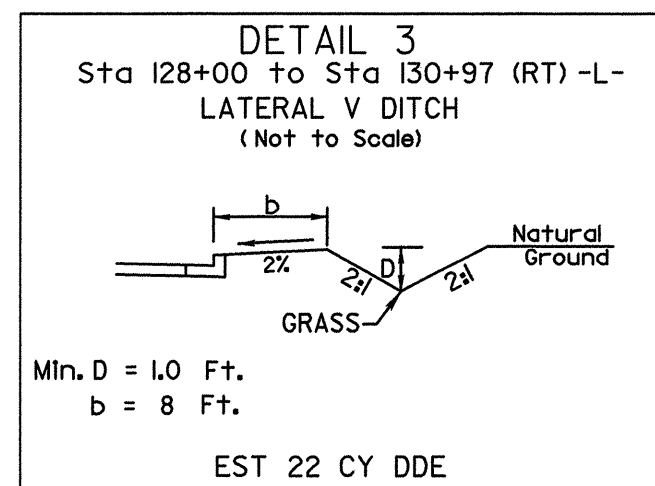
**CURVE L-4**  
 PI 130+22.20  
 $\Delta$  27° 32' 39.3" (LT)  
 D 6° 37' 25.6"  
 R 865.00'  
 Lc 415.84'  
 T 212.02'  
 SE 0.036  
 RUNOFF 104.40'

**NOTE :** STA 131+50 TO STA 153+84 -L- (LT & RT) CONTRACTOR SHALL EXERCISE CARE REMOVING THE EXISTING GRANITE CURB AND STOCKPILE FOR PICK UP BY HENDERSONVILLE (CITY'S PROPERTY)



**NOTE :** PARCELS 11, 13 & 14 - OAKDALE CEMETERY - DELAY IN RIGHT OF ENTRY AND GRAVES TO BE MOVED BY OTHERS (SEE SPECIAL PROVISIONS).

**CURVE Y2A-1**  
 PI 10+65.00  
 $\Delta$  10° 33' 37.6" (LT)  
 D 22° 55' 05.9"  
 R 250.00'  
 Lc 46.08'  
 T 23.10'  
 SE MATCH EX



**PAVEMENT REMOVAL**

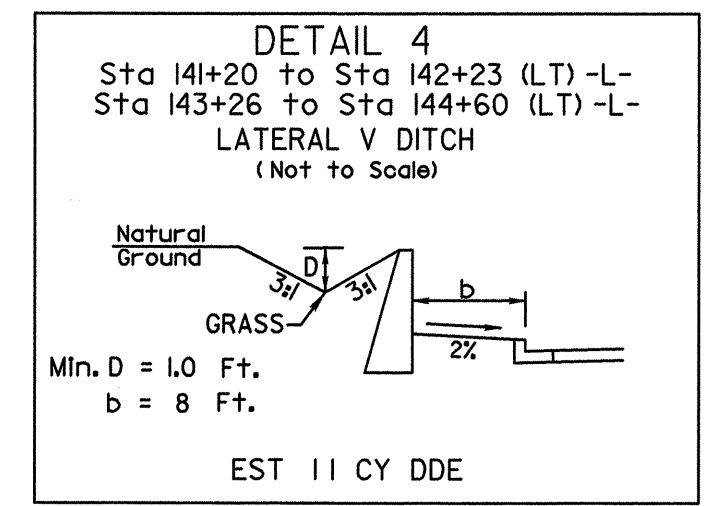
SEE SHEET 8 & 9 FOR -L- PROFILE  
 SEE SHEET 2A FOR INTERSECTION & DRIVEWAY DETAILS



REVISIONS

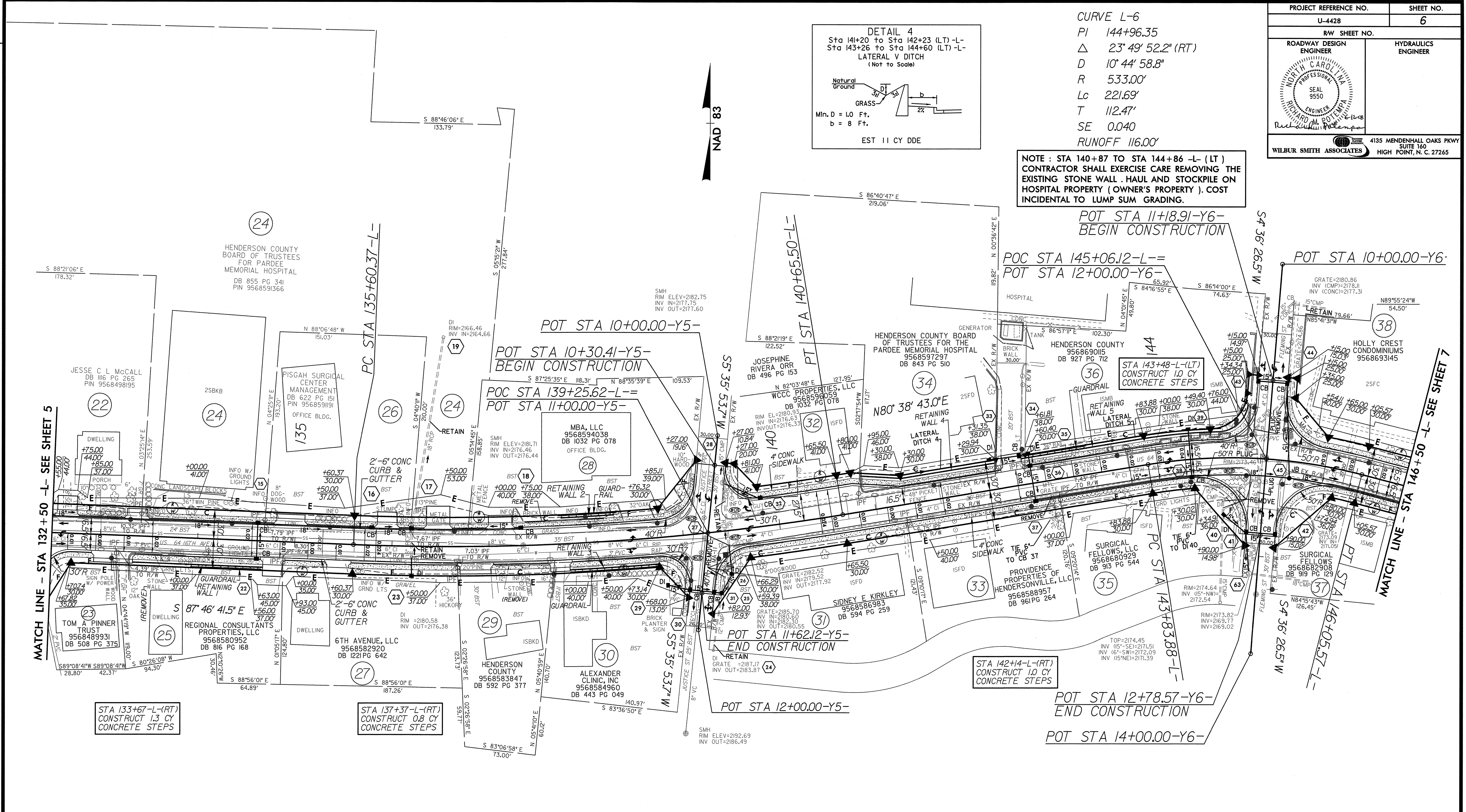
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CURVE L-6  
 PI 144+96.35  
 $\Delta$  23' 49" 52.2" (RT)  
 D 10' 44" 58.8"  
 R 533.00'  
 Lc 221.69'  
 T 112.47'  
 SE 0.040  
 RUNOFF 116.00'

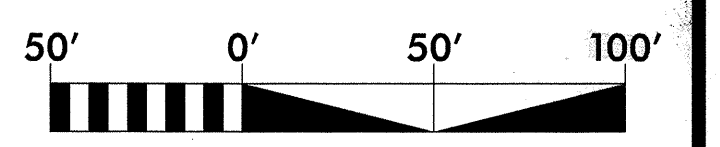
NOTE: STA 140+87 TO STA 144+86 -L- (LT)  
 CONTRACTOR SHALL EXERCISE CARE REMOVING THE  
 EXISTING STONE WALL. HAUL AND STOCKPILE ON  
 HOSPITAL PROPERTY (OWNER'S PROPERTY). COST  
 INCIDENTAL TO LUMP SUM GRADING.



NOTE: STA 131+50 TO STA 153+84 -L- (LT & RT)  
 CONTRACTOR SHALL EXERCISE CARE REMOVING THE  
 EXISTING GRANITE CURB AND STOCKPILE FOR PICK UP  
 BY HENDERSONVILLE (CITY'S PROPERTY)

CURVE L-5  
 PI 138+13.80  
 $\Delta$  11' 34" 35.5" (LT)  
 D 2' 17" 30.6"  
 R 2,500.00'  
 Lc 505.12'  
 T 253.42'  
 SE 0.024  
 RUNOFF 69.60'

SEE SHEET 10 FOR -L- PROFILE  
 SEE SHEET 2A & 2B FOR INTERSECTION & DRIVEWAY DETAILS



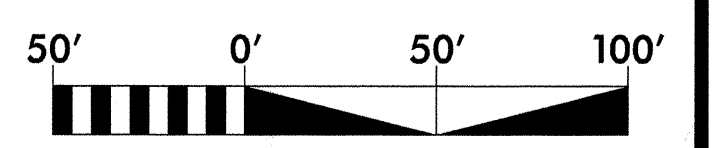
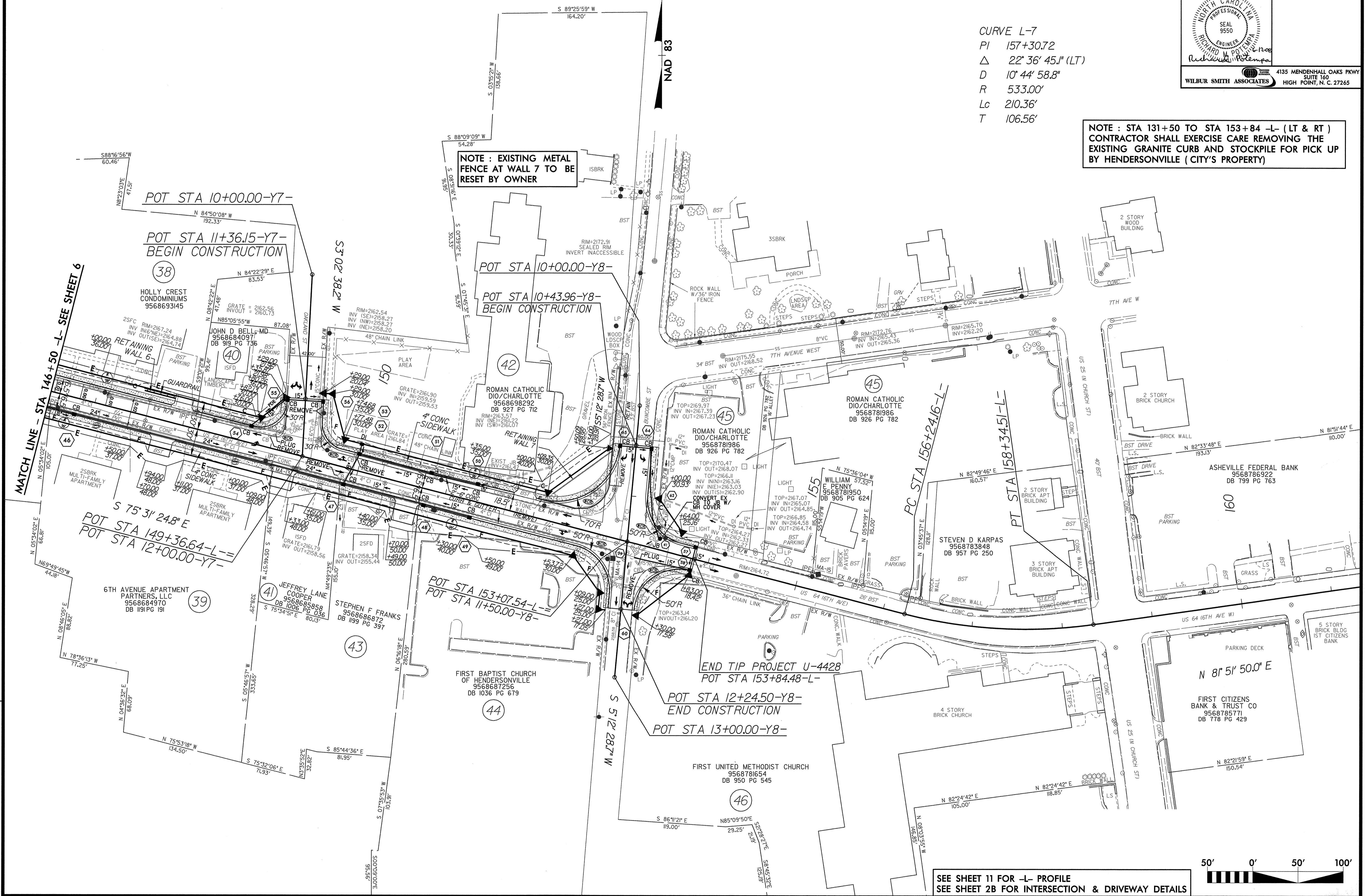
REVISIONS

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CURVE L-7  
 PI 157+30.72  
 Δ 22° 36' 45.1" (LT)  
 D 10° 44' 58.8"  
 R 533.00'  
 Lc 210.36'  
 T 106.56'

NOTE : STA 131+50 TO STA 153+84 -L- (LT & RT)  
 CONTRACTOR SHALL EXERCISE CARE REMOVING THE  
 EXISTING GRANITE CURB AND STOCKPILE FOR PICK UP  
 BY HENDERSONVILLE (CITY'S PROPERTY)

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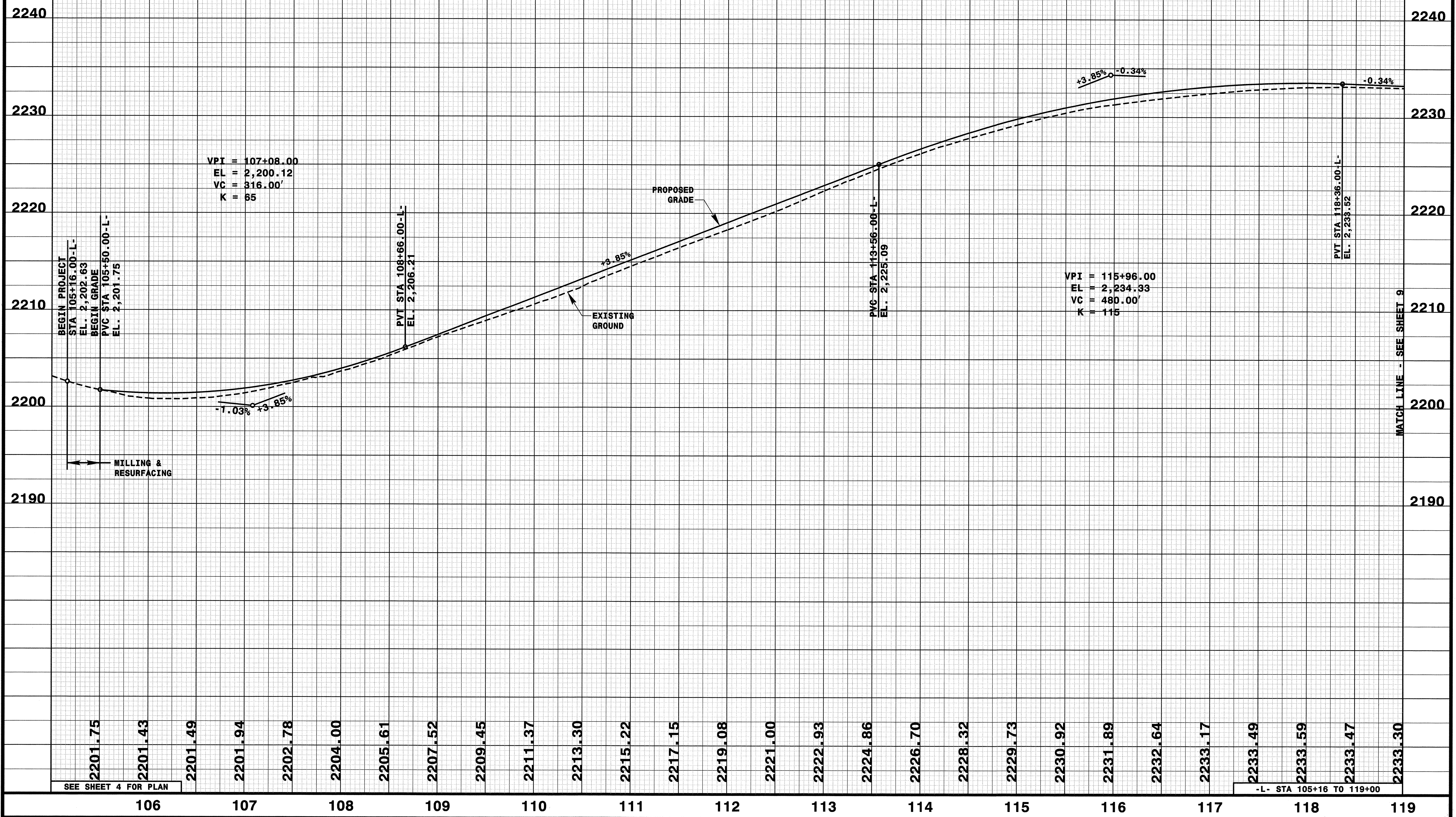


SEE SHEET 11 FOR -L- PROFILE  
 SEE SHEET 2B FOR INTERSECTION & DRIVEWAY DETAILS

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US 64 (6 TH AVE) -L-

BM # MA5 EL 2203.07  
ALUMINUM CAP ON REBAR  
STA 104+77.94-L-(39.44'LT)



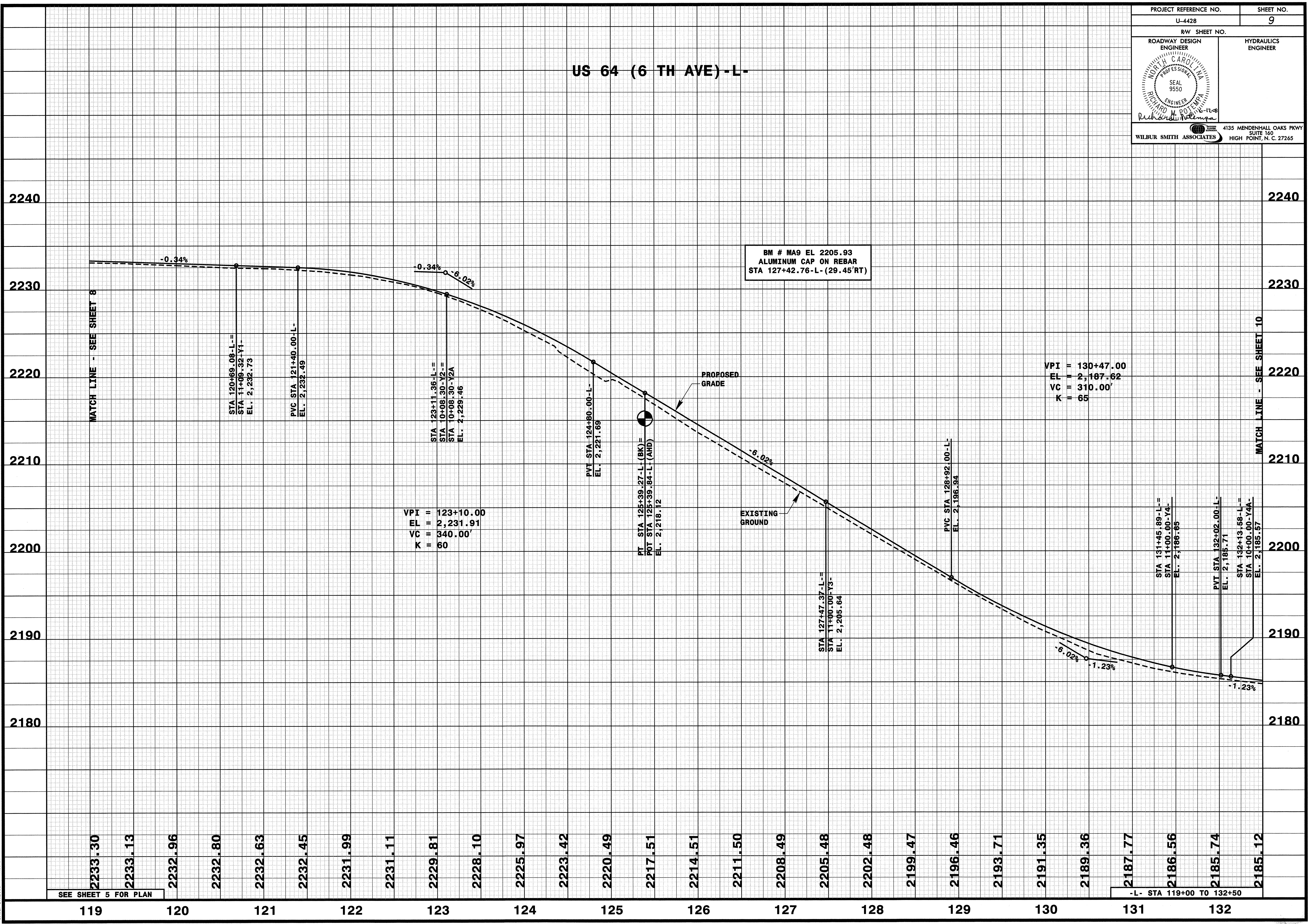
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SEE SHEET 4 FOR PLAN

-L- STA 105+16 TO 119+00

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## US 64 (6 TH AVE) -L-

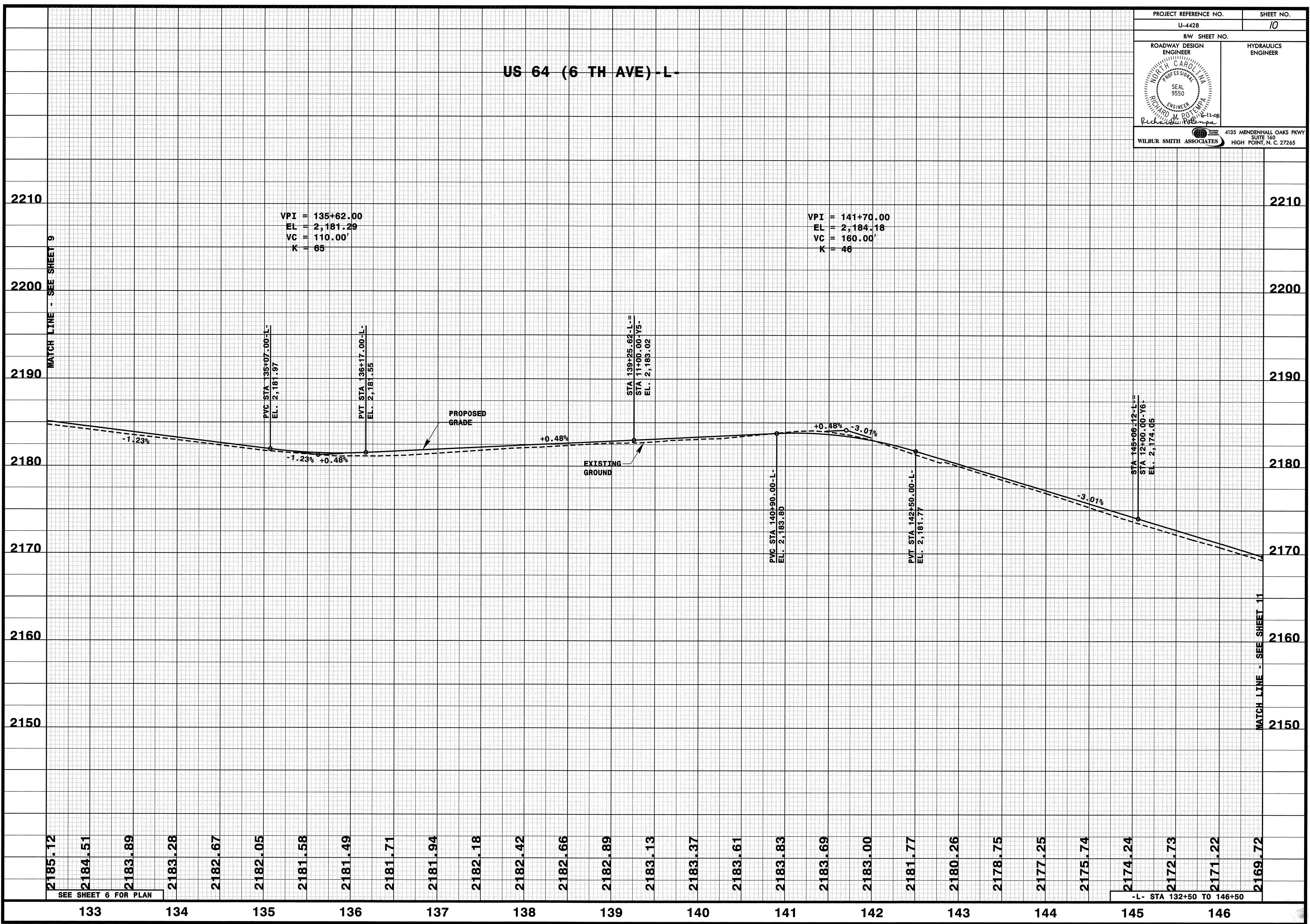


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SEE SHEET 5 FOR PLAN

-L- STA 119+00 TO 132+50

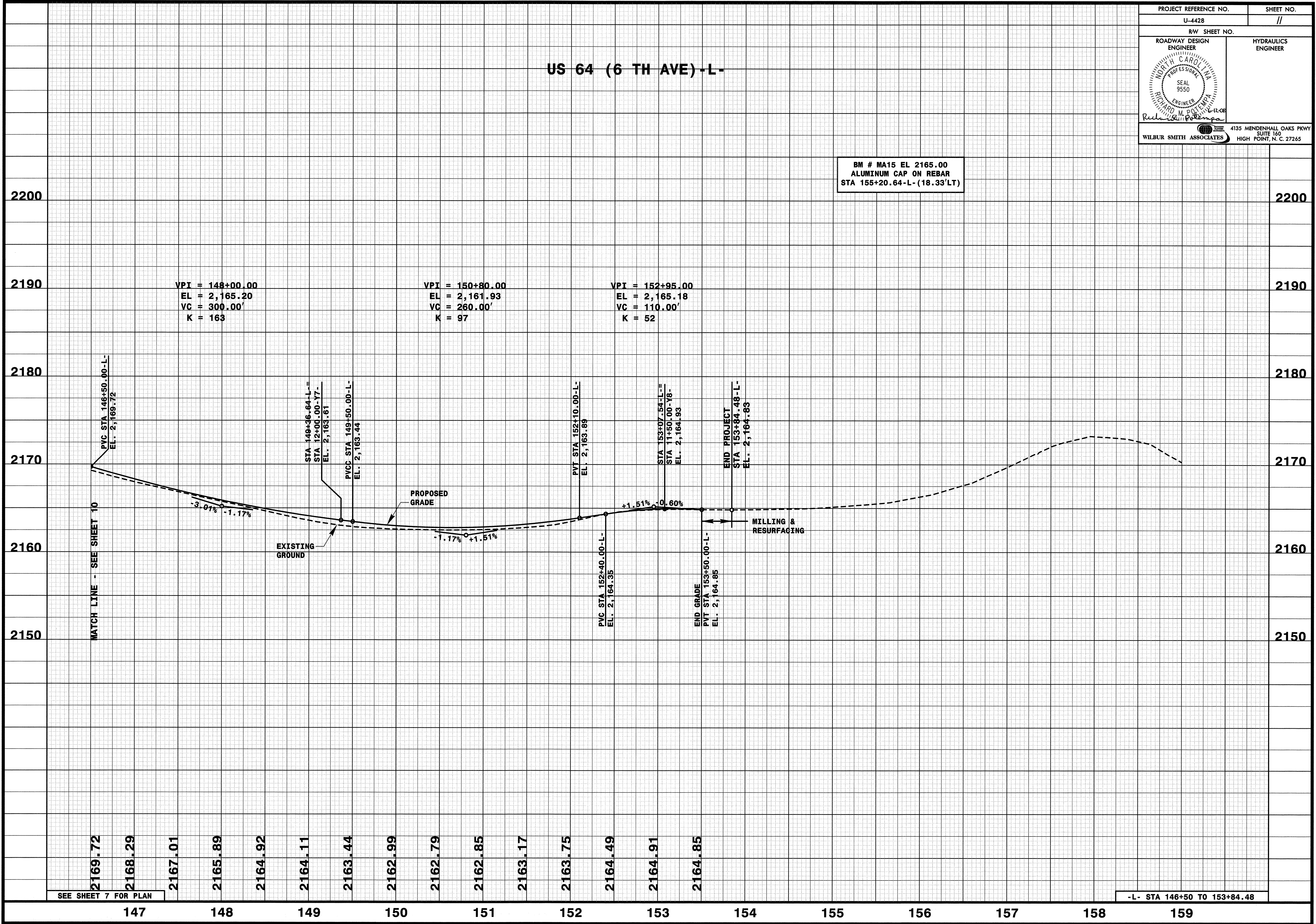
**US 64 (6 TH AVE)-L-**



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US 64 (6 TH AVE) -L-

BM # MA15 EL 2165.00  
ALUMINUM CAP ON REBAR  
STA 155+20.64-L- (18.33'LT)



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SEE SHEET 7 FOR PLAN

-L- STA 146+50 TO 153+84.48