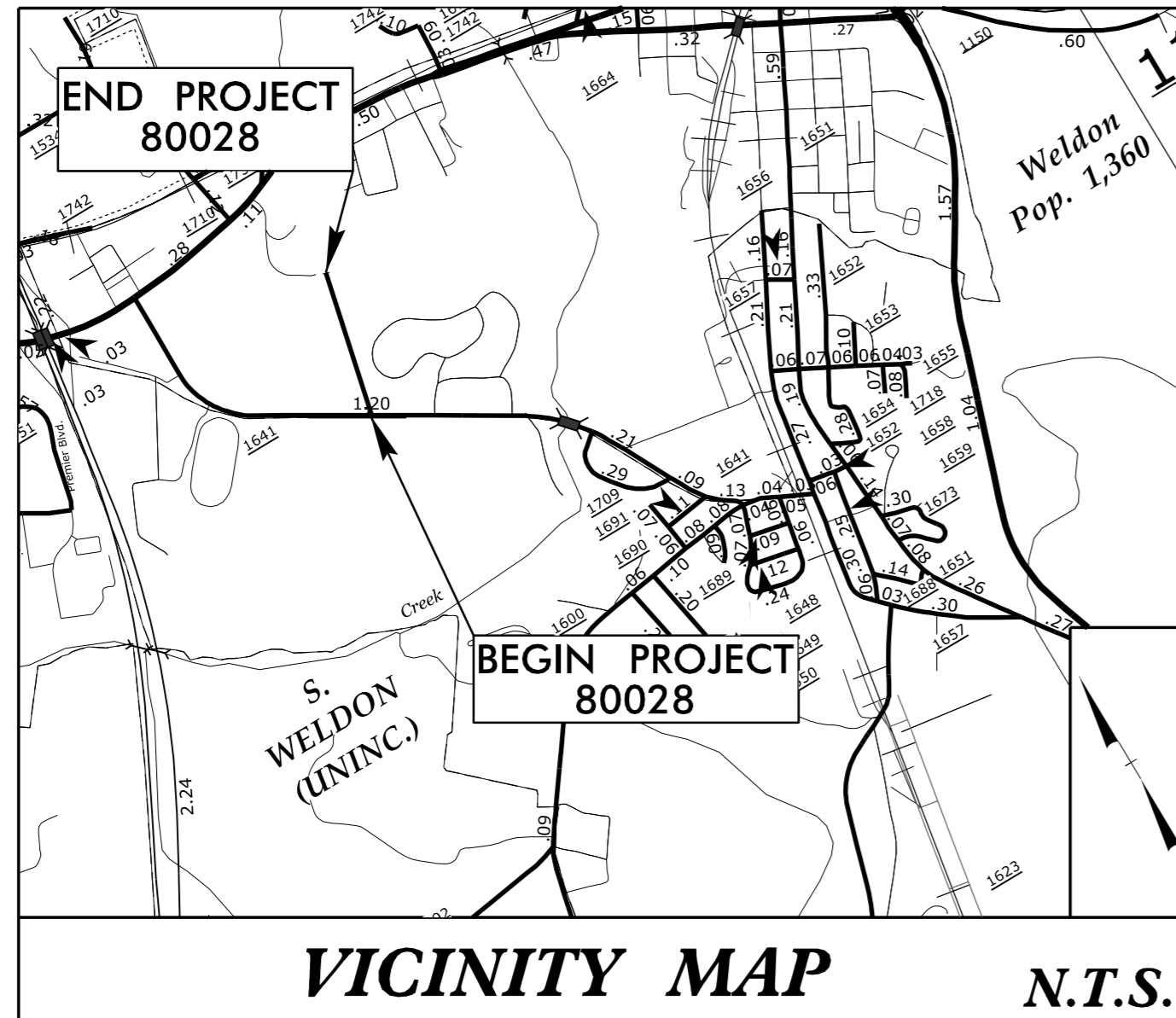


09/08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

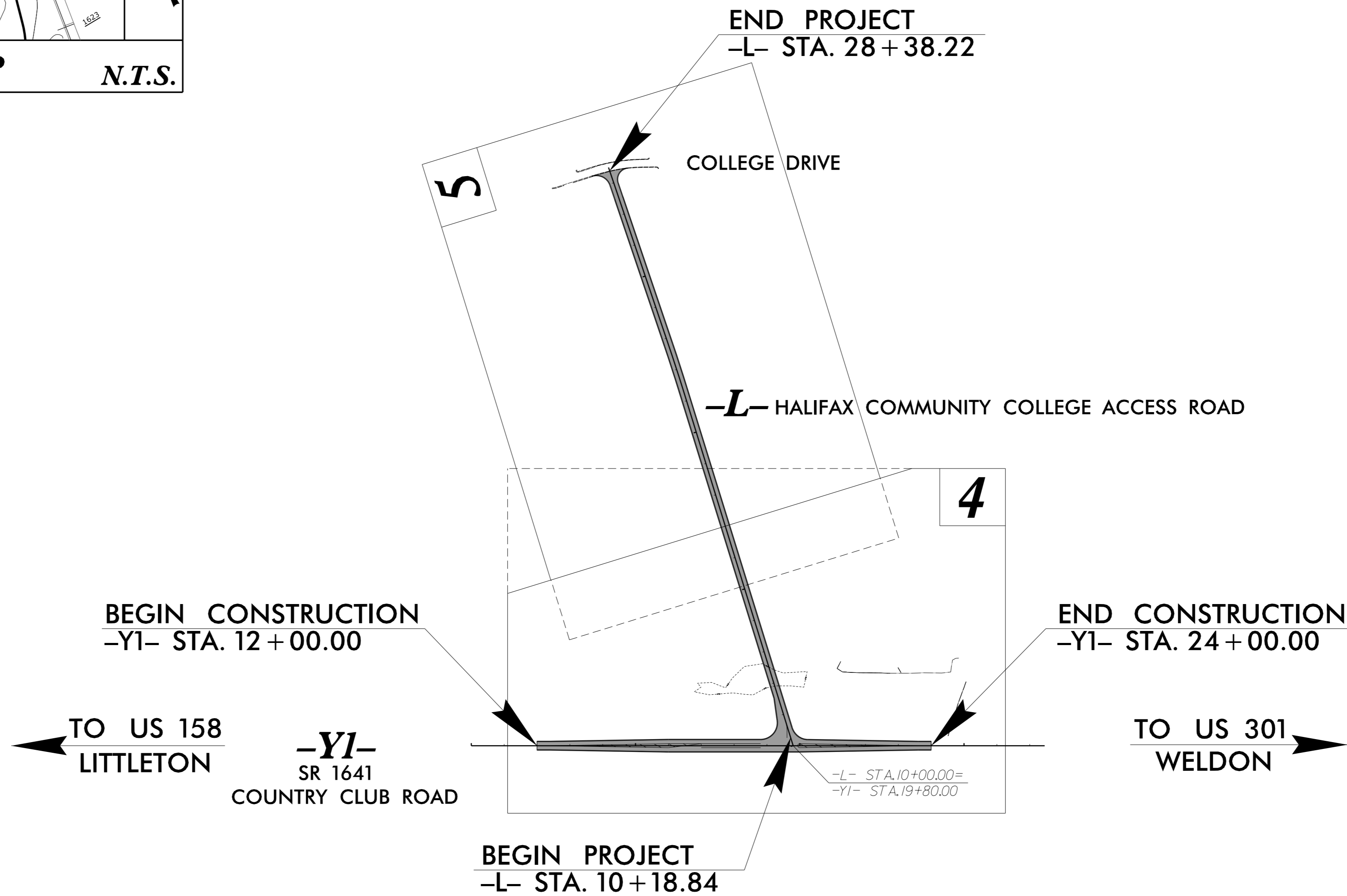
HALIFAX COUNTY

LOCATION: PROPOSED HALIFAX COMMUNITY COLLEGE ACCESS ROAD FROM SR 1641 (COUNTRY CLUB ROAD) TO COLLEGE DRIVE

TYPE OF WORK: GRADING, DRAINAGE AND PAVING

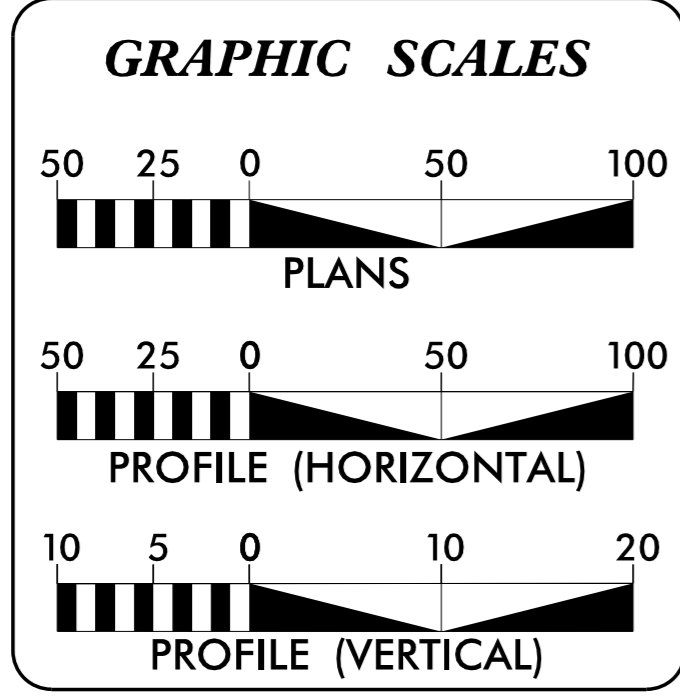
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	80028	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: 80028



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2018 =	
ADT 2038 =	
DHV =	
D =	
T =	
V =	40 MPH
FUNC CLASS =	LOCAL

PROJECT LENGTH

SECTION 1:		
LENGTH ROADWAY TIP PROJECT 80028	=	0.345 MILES
TOTAL LENGTH TIP PROJECT 80028	=	0.345 MILES

Prepared in the Office of:
CDM Smith
CDM Smith Inc.
5400 Glenwood Avenue
Suite 400
Raleigh, NC 27612-3228
NC CDA No. F-1255

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MAY 2017	DAVID Z. KEISER, P.E. PROJECT ENGINEER
LETTING DATE: MAY 2017	ADAM M. CONRAD, P.E. PROJECT DESIGN ENGINEER
	FRANZ ENDERS, P.E. NCDOT CONTACT

HYDRAULICS ENGINEER

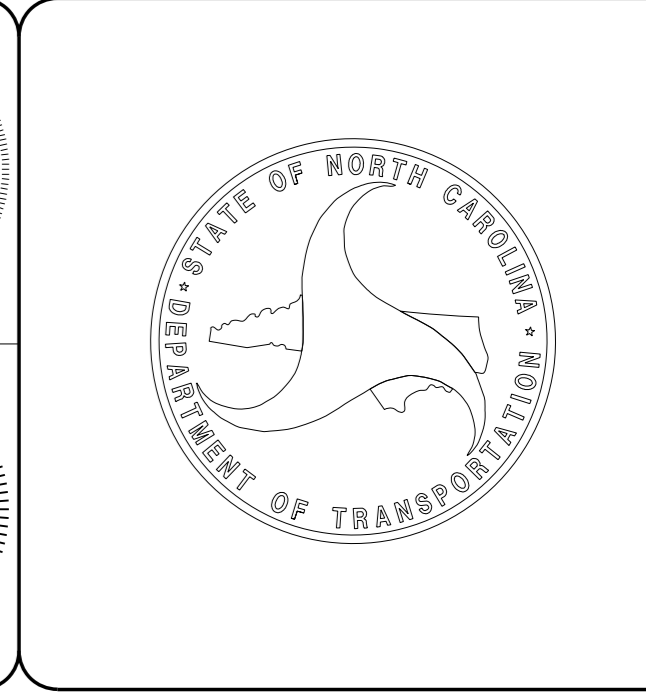
5/18/2017

DocuSigned by:
A. T. Nottingham
SIGNATURE:

ROADWAY DESIGN ENGINEER

5/18/2017

DocuSigned by:
David Z. Keiser
SIGNATURE:



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N:\Proj\HalCommCollRd_Rdy_Tsh.dgn
USER: CONRADAM

8/17/99

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

ROADWAY DESIGN
ENGINEER

David E. Keiser

CDM Smith Inc.
2407 Glenwood Avenue
Suite 400
Raleigh, NC 27612-3228
NC CDA No. F-1285

INDEX OF SHEETS:

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
4 THRU 7	PLAN AND PROFILE SHEETS
TMP-1 THRU TMP-2	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING AND SIGNING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
X-1 THRU X-21	CROSS SECTIONS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 01-24-2017

2012 ROADWAY ENGLISH STANDARD DRAWINGS

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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.

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.

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

RIGHT-OF-WAY MARKERS:

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

EFF. 01-17-2012
REV. 02-29-2016

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 8 - INCIDENTALS	
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.80	Precast Endwalls - 12" thru 72" Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
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 and 840.15
840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.26	Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.45	Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & Gutter
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

04/05/15

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- RL.B
Proposed Wetland Boundary	----- RL.B
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB

Known Contamination Area: Soil	☠
Potential Contamination Area: Soil	☠
Known Contamination Area: Water	☠
Potential Contamination Area: Water	☠
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	+
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ 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	----- RW
Proposed Right of Way Line with Iron Pin and Cap Marker	----- RW ▲
Proposed Right of Way Line with Concrete or Granite R/W Marker	----- RW ▲
Proposed Control of Access Line with Concrete CA Marker	----- CA

Existing Control of Access	----- CA
Proposed Control of Access	----- CA
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE

Proposed Permanent Easement with Iron Pin and Cap Marker	◆
--	---

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
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	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
Storm Sewer	----- S

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	● ●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- W
U/G Water Line LOS C (S.U.E.*)	----- W
U/G Water Line LOS D (S.U.E.*)	----- W
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- ?UTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊠ UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	○
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

5/14/99

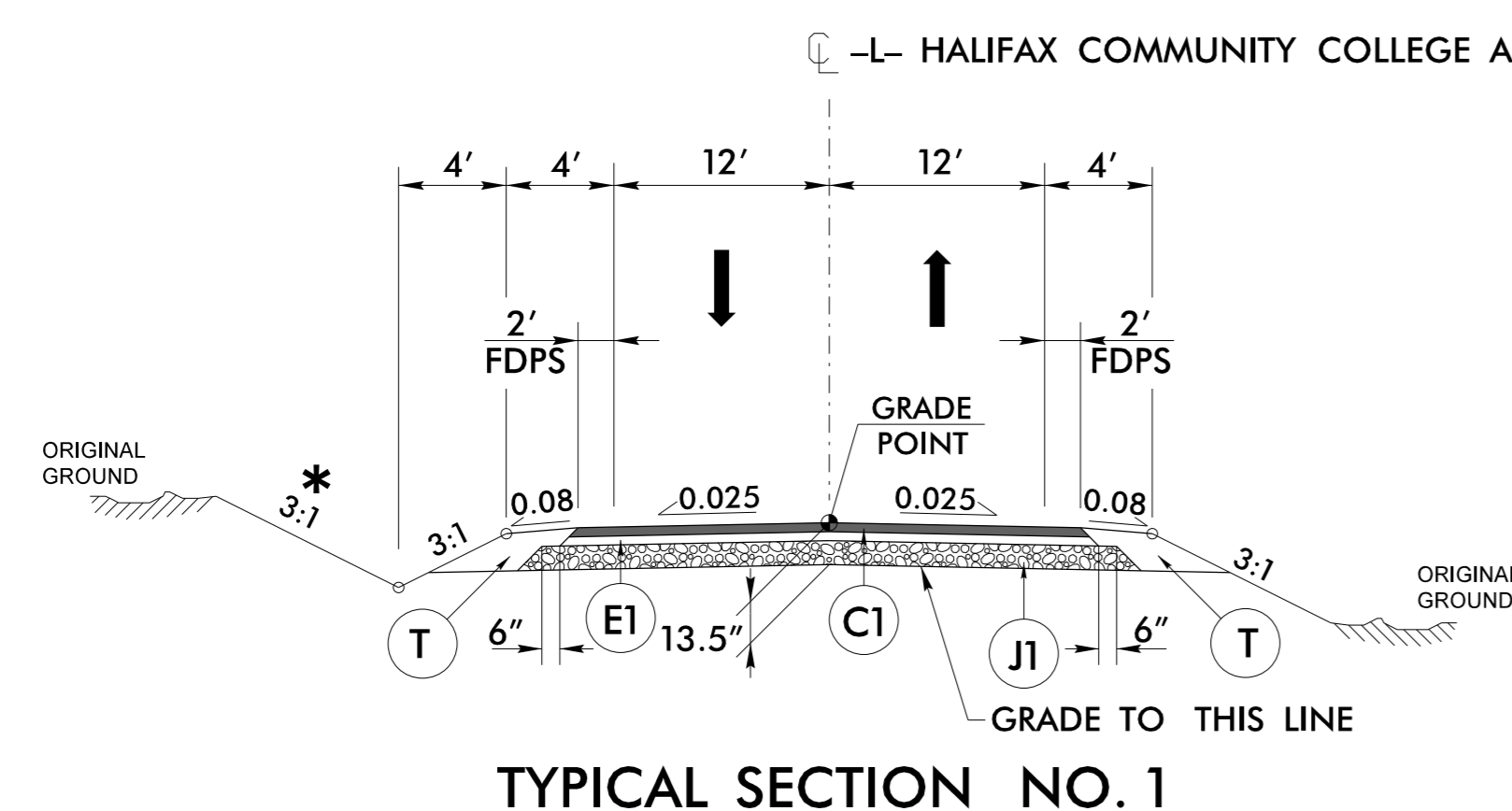
PAVEMENT SCHEDULE
FINAL PAVEMENT DESIGN

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	J1	PROP. 8" AGGREGATE BASE COURSE	U	EXIST. PAVEMENT
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	R1	2'x6" CONCRETE CURB AND GUTTER.	V	MILLING BITUMINOUS PAVEMENT, 0" - 1.5"
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.				

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

PROJECT REFERENCE NO. 80028	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
CDM Smith CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC CDA No. F-1250	NC DEPARTMENT OF TRANSPORTATION PAVEMENT MANAGEMENT UNIT 1400 MAIL SERVICE CENTER RALEIGH, NC 27699-1550

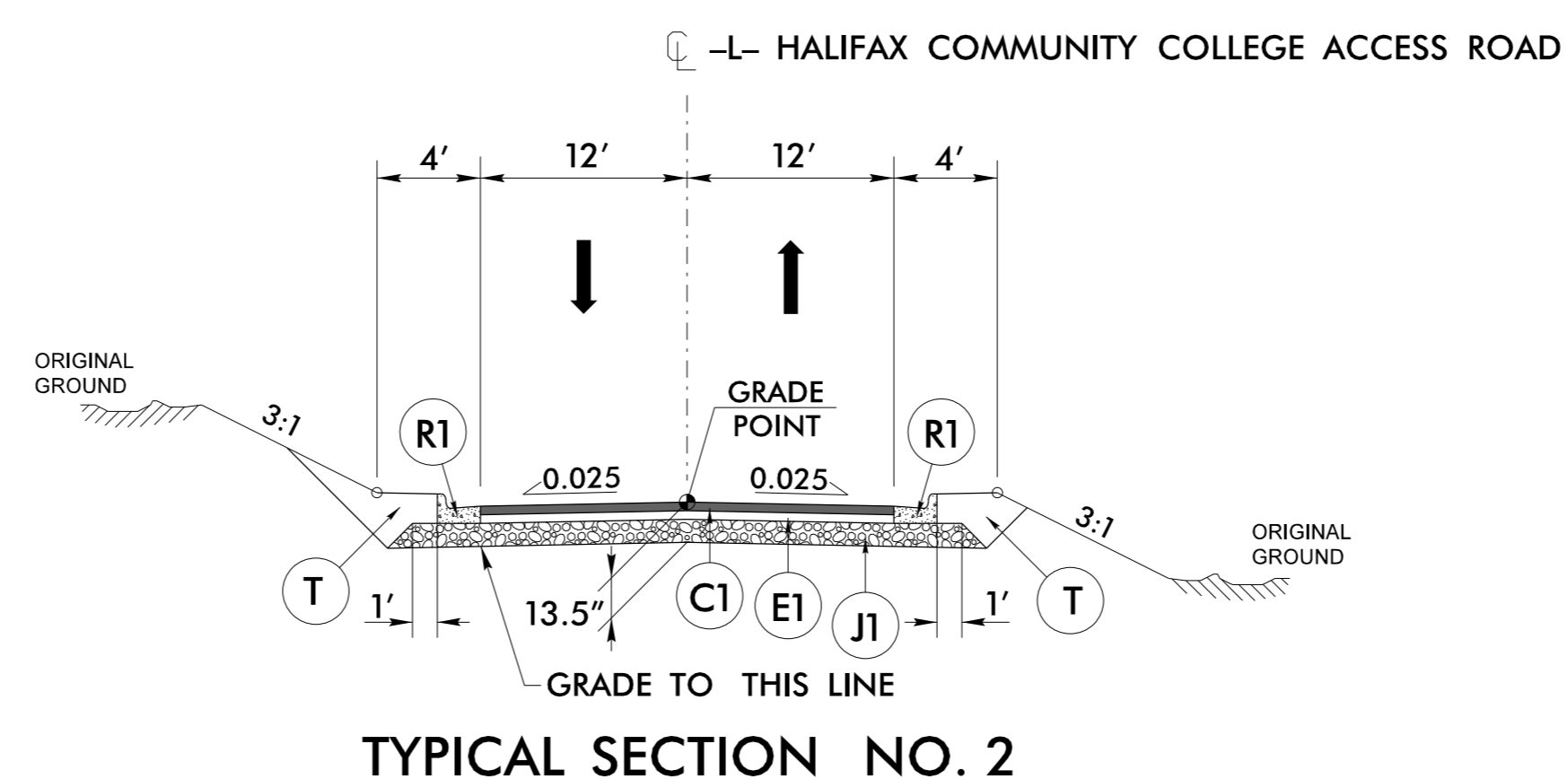
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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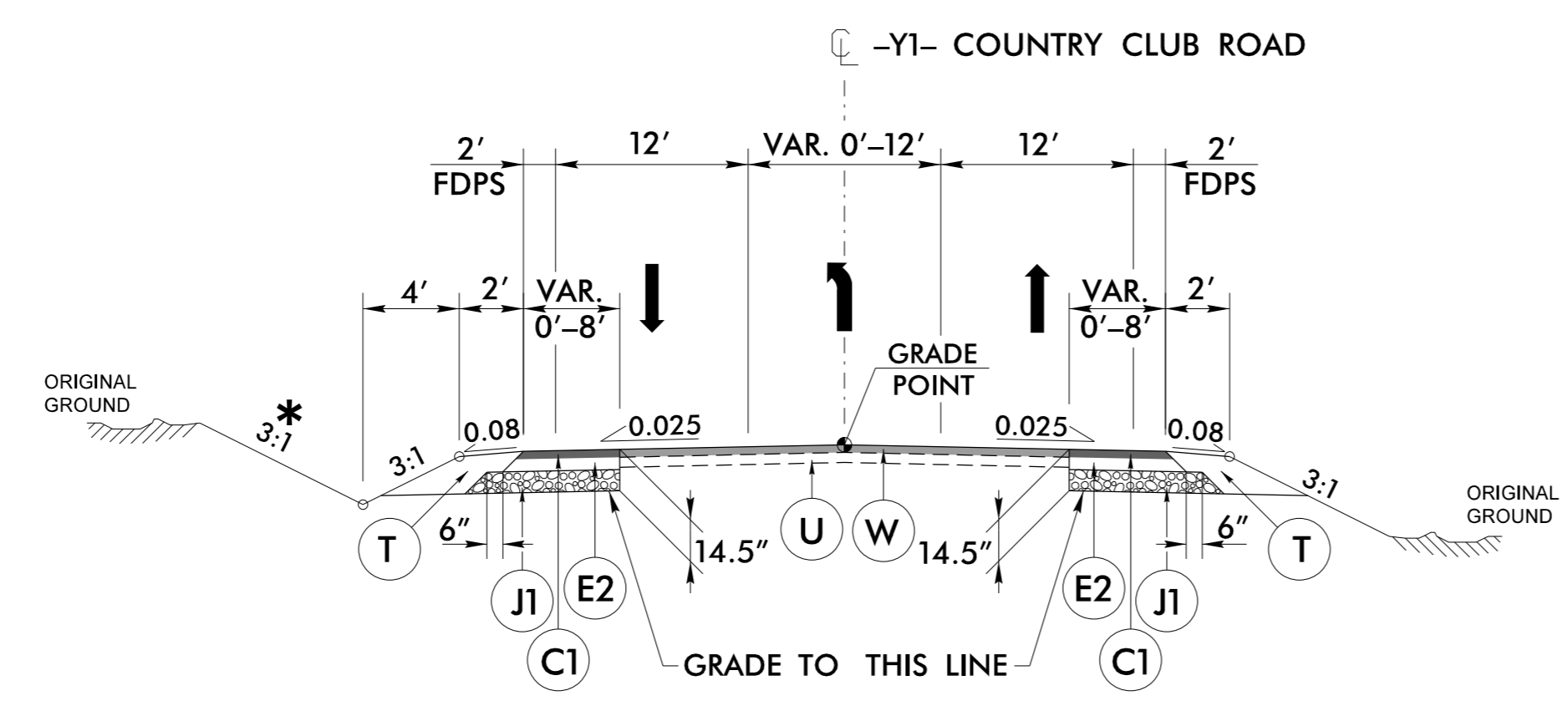
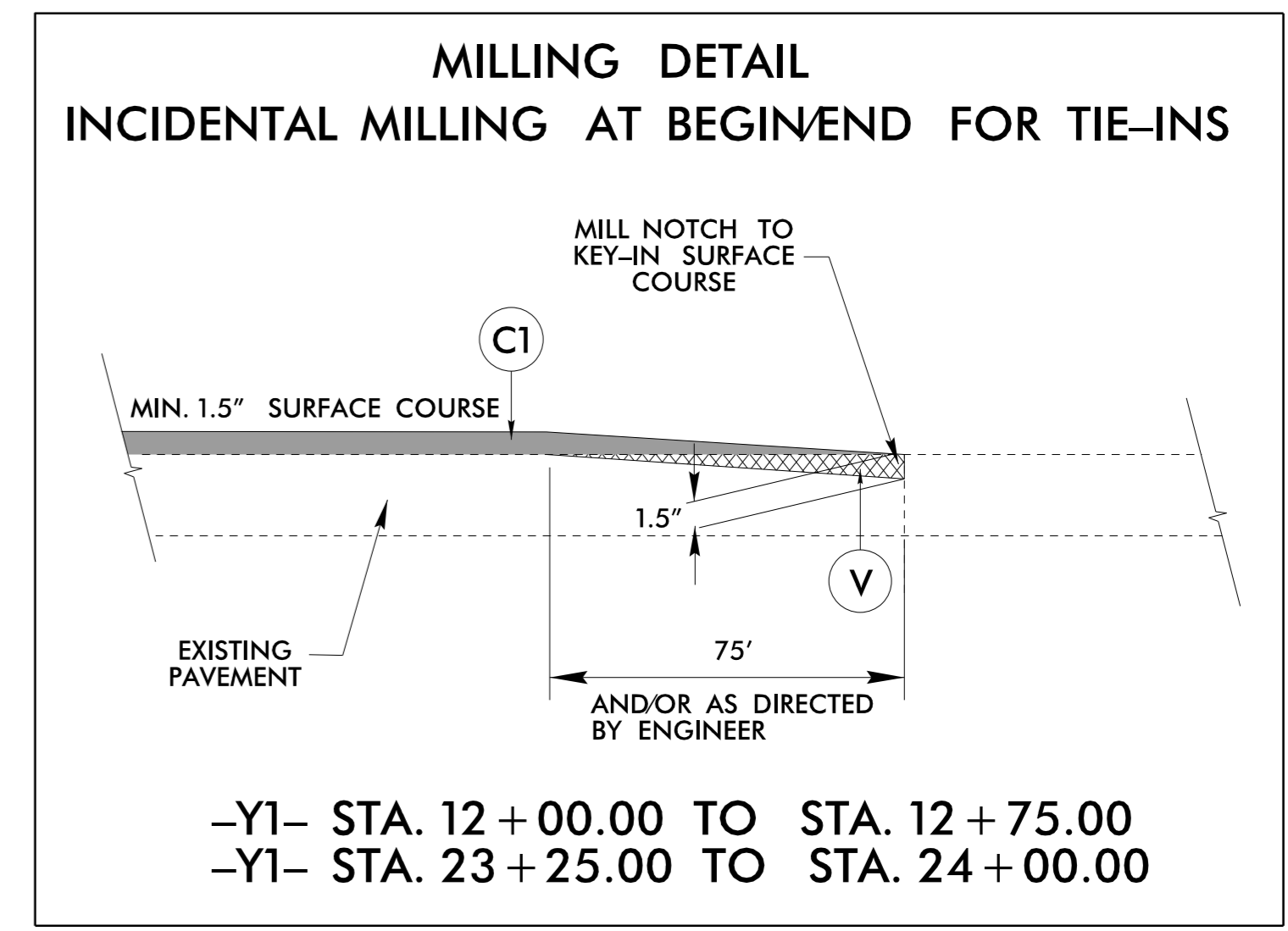
USE TYPICAL SECTION NO. 1
-L- STA. 10+18.84 TO STA. 27+50.00

* USE 2:1 BACKSLOPE FROM STA. 11+50 (RT) TO STA. 13+00 (RT)



TYPICAL SECTION NO. 2

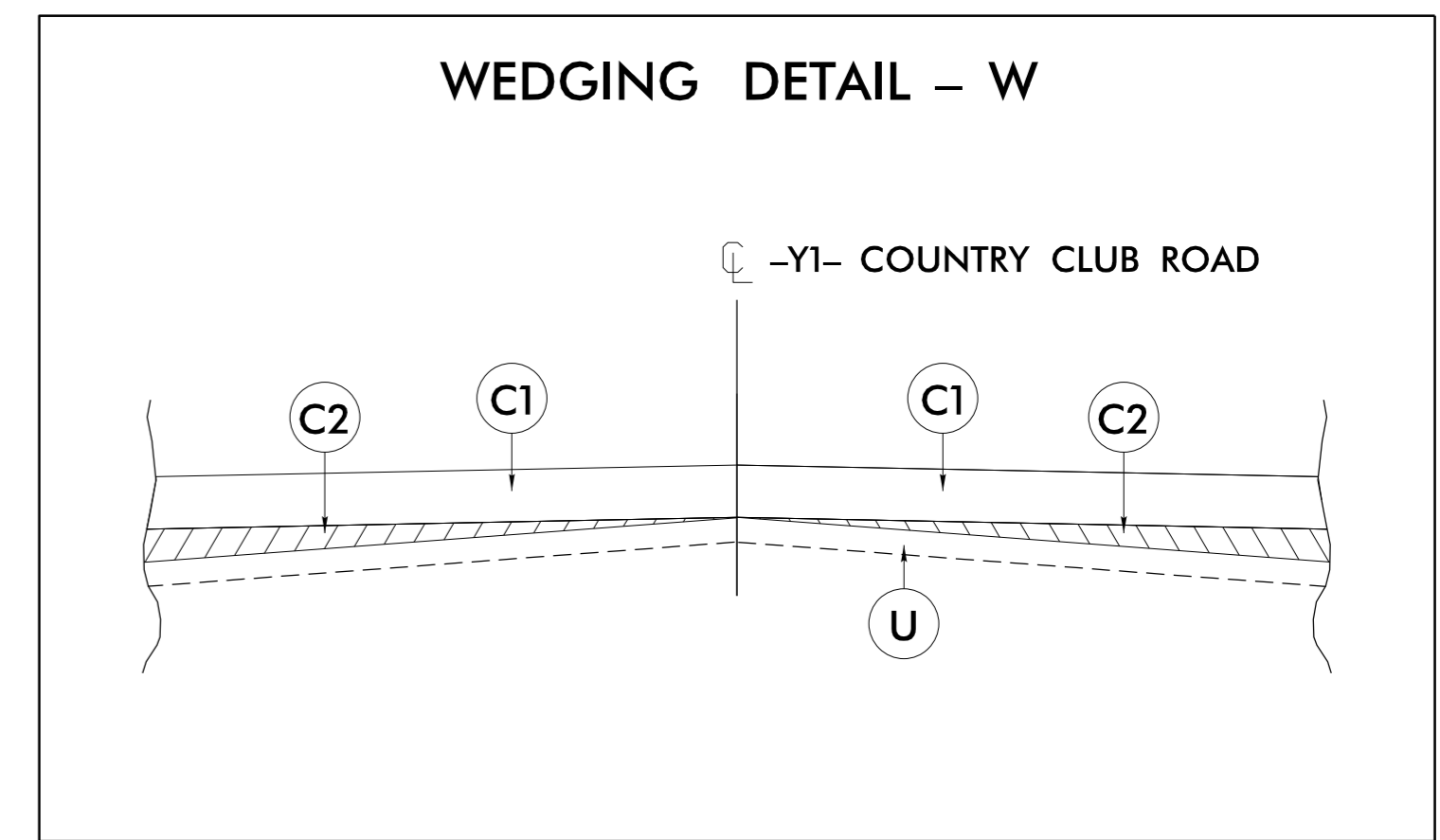
USE TYPICAL SECTION NO. 2
-L- STA. 27+50.00 TO STA. 28+38.22



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
-Y1- STA. 12+00.00 TO STA. 24+00.00

* USE 2:1 BACKSLOPE FROM STA. 20+50 (RT) TO STA. 24+00 (RT)



Invalid expression
JUSTIFIED

PROJECT REFERENCE NO. 80028	SHEET NO. 2B-1
R/W SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROADWAY DESIGN
ENGINEER

5/18/2017

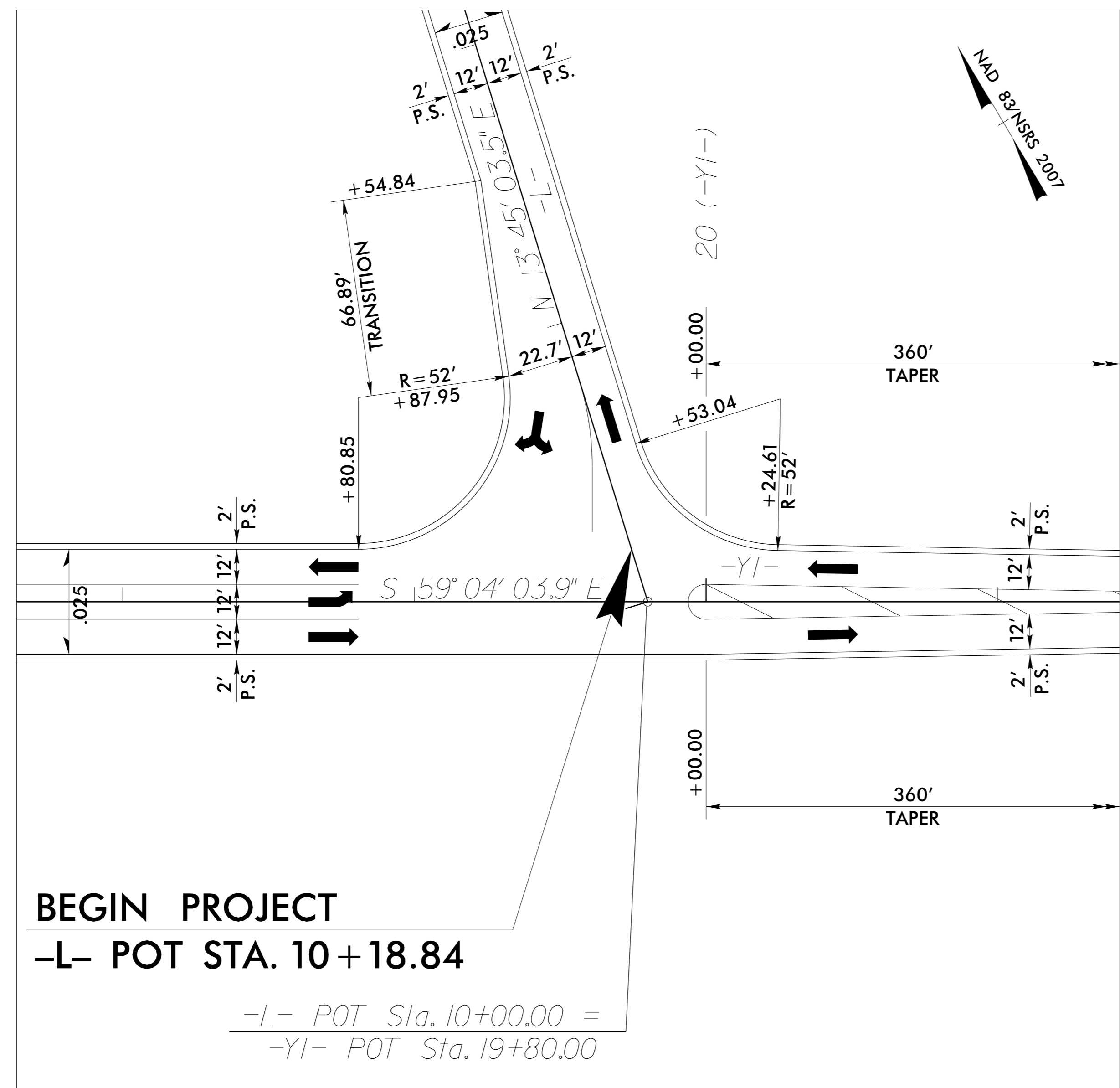
SEAL
033400

ENGINEER
DAVID Z. KEISER

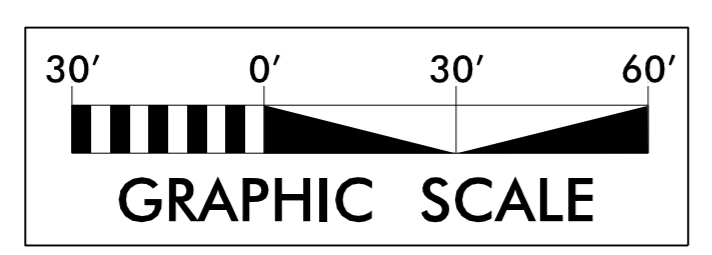
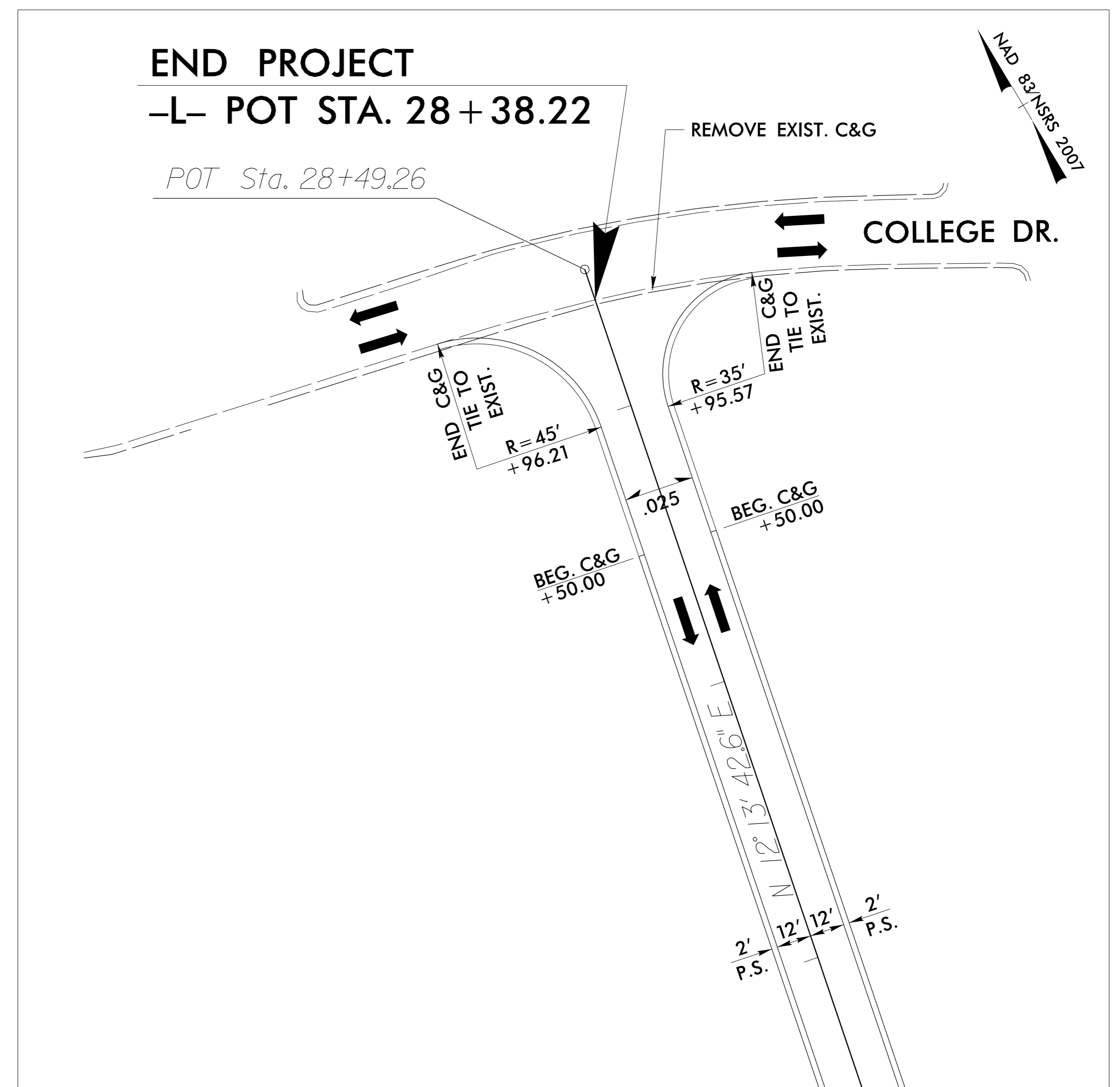
David Z. Keiser

CDM Smith
CDM Smith Inc.
5400 Glenwood Avenue
Suite 400
Raleigh, NC 27612-3229
NC COA No. F-1255

**INTERSECTION DETAIL
-Y1--L-**



**INTERSECTION DETAIL
-L-/COLLEGE DR.**



SEE SHEETS 4 & 5 FOR PLAN VIEW

COMPUTED BY:	AMC	DATE:	5/19/17
CHECKED BY:	DZK	DATE:	5/19/17

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- 10+18.84	28+38.22	2,552	596		1,956
-Y1- 12+00.00	24+00.00	939	341		598
SUBTOTALS:		3,491	937		2,553
TOTALS:		3,491	937		2,553
MATERIAL FOR SHOULDER CONSTRUCTION			813	813	
WASTE IN LUE OF BORROW				-813	-813
PROJECT TOTALS:		3,491	1,749		1,740
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					
GRAND TOTALS:		3,491	1,749		1,740
SAY:		3,500	1,800		1,800

EST. DDE = 210 CY

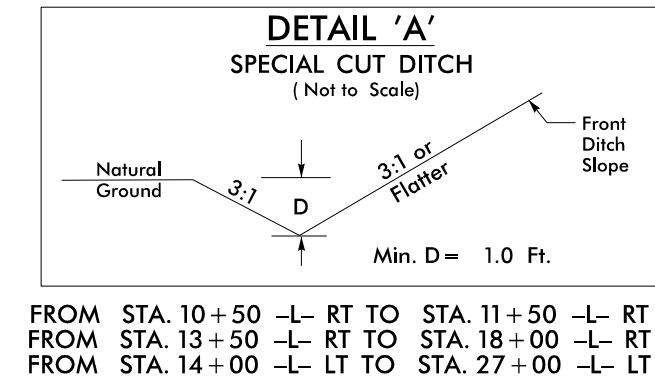
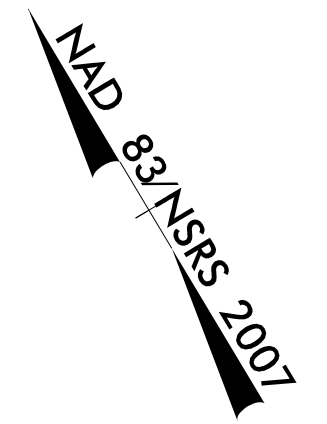
Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

Approx. Quantities Only: Clearing and Grubbing, Unclassified Excavation, Shoulder Borrow, and Fine Grading will be paid for at the contract lump sum price for "Grading".

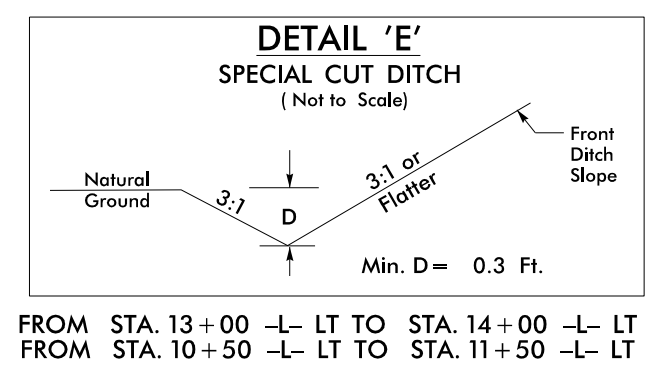
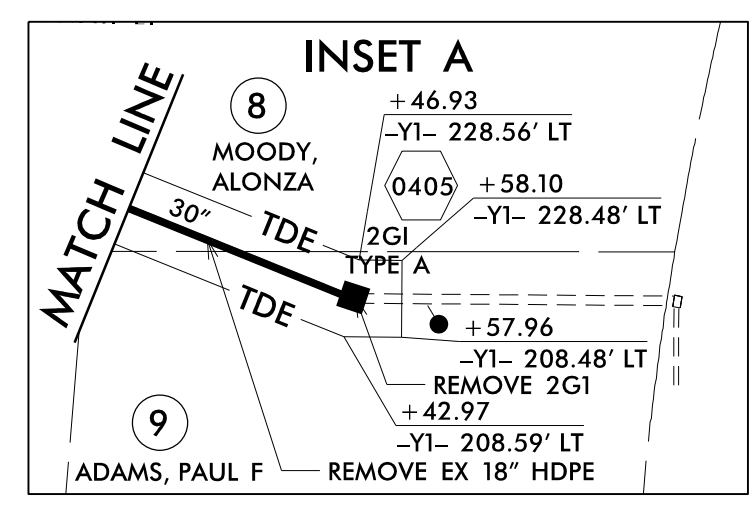
12/06/07

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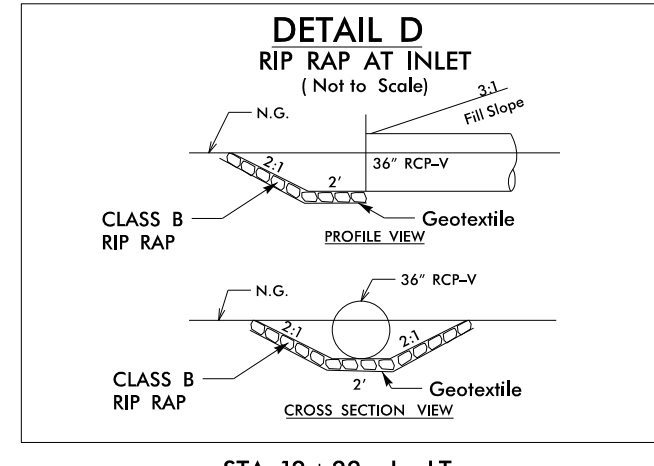
PROJECT REFERENCE NO. 80028	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONTRACT DOCUMENT NO. 27606 UNLESS ALL SIGNATURES COMPLETED	



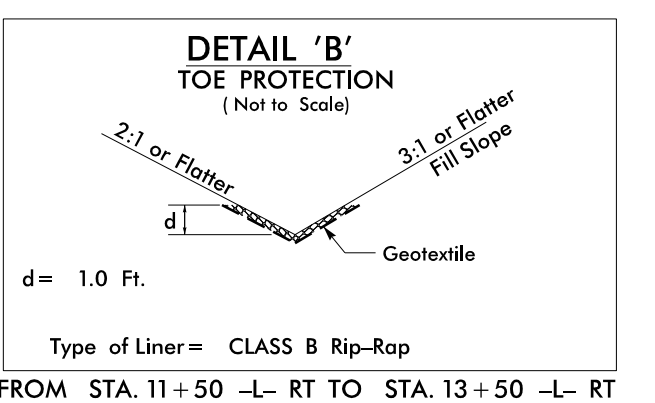
FROM STA. 10+50 -L- RT TO STA. 11+50 -L- RT
 FROM STA. 13+50 -L- RT TO STA. 18+00 -L- RT
 FROM STA. 14+00 -L- LT TO STA. 27+00 -L- LT



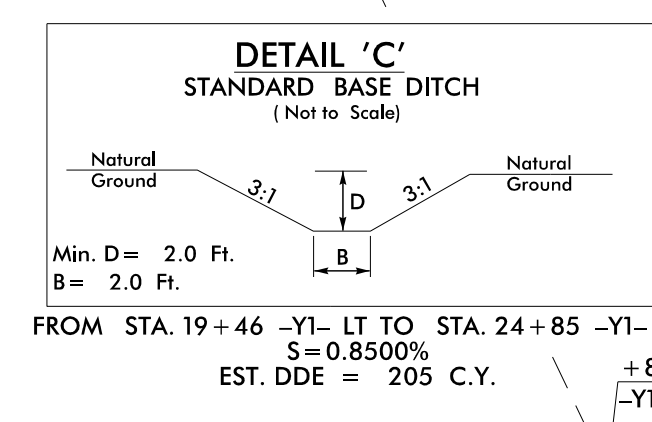
FROM STA. 13+00 -L- LT TO STA. 14+00 -L- LT
 FROM STA. 10+50 -L- LT TO STA. 11+50 -L- LT



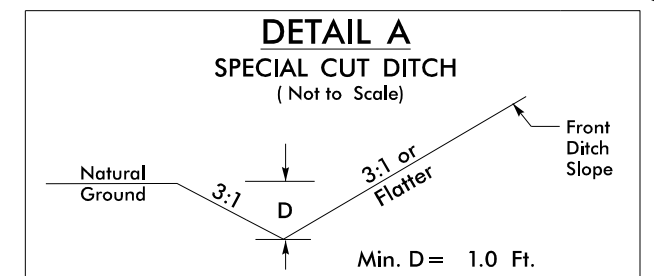
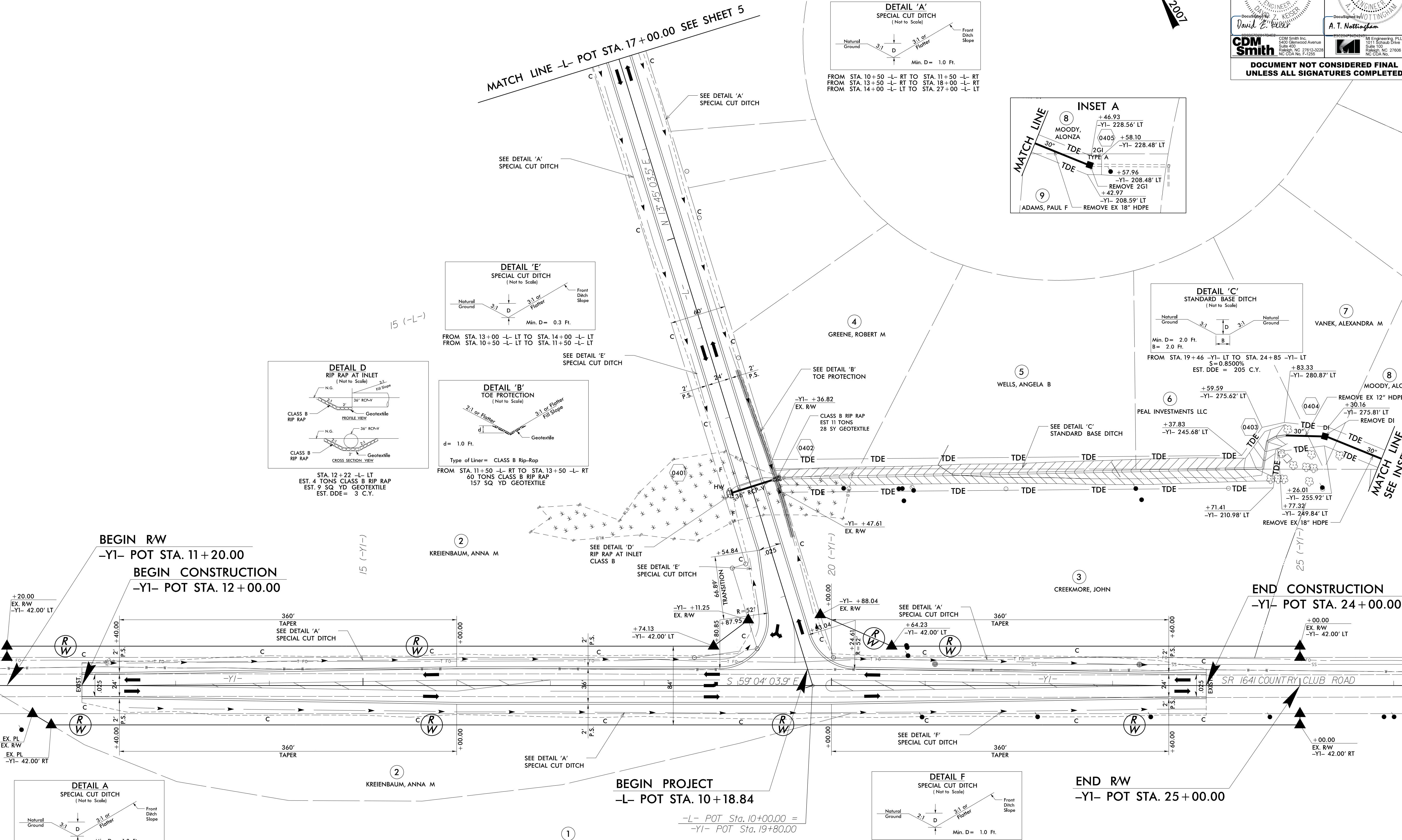
STA. 12+22 -L- LT
 EST. 4 TONS CLASS B RIP RAP
 EST. 9 SQ YD GEOTEXTILE
 EST. DDE = 3 C.Y.



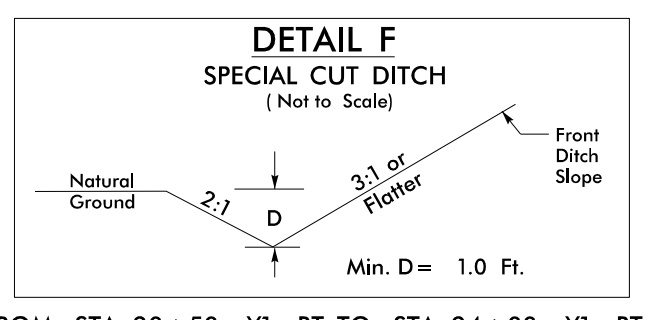
Type of Liner = CLASS B Rip-Rap
 FROM STA. 11+50 -L- RT TO STA. 13+50 -L- RT
 60 TONS CLASS B RIP RAP
 157 SQ YD GEOTEXTILE



FROM STA. 19+46 -Y1- LT TO STA. 24+85 -Y1- LT
 S = 0.8500%
 EST. DDE = 205 C.Y.



FROM STA. 12+50 -Y1- RT TO STA. 20+00 -Y1- RT
 FROM STA. 12+00 -Y1- LT TO STA. 19+00 -Y1- LT
 FROM STA. 20+00 -Y1- LT TO STA. 23+50 -Y1- LT



FROM STA. 20+50 -Y1- RT TO STA. 24+00 -Y1- RT

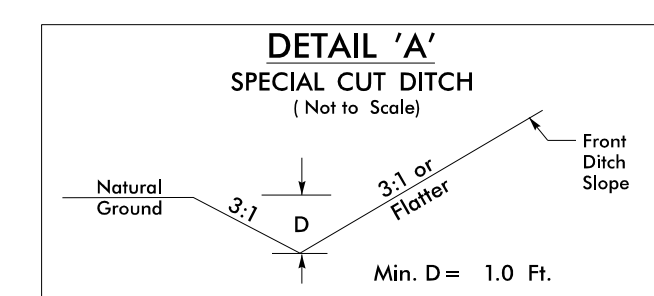
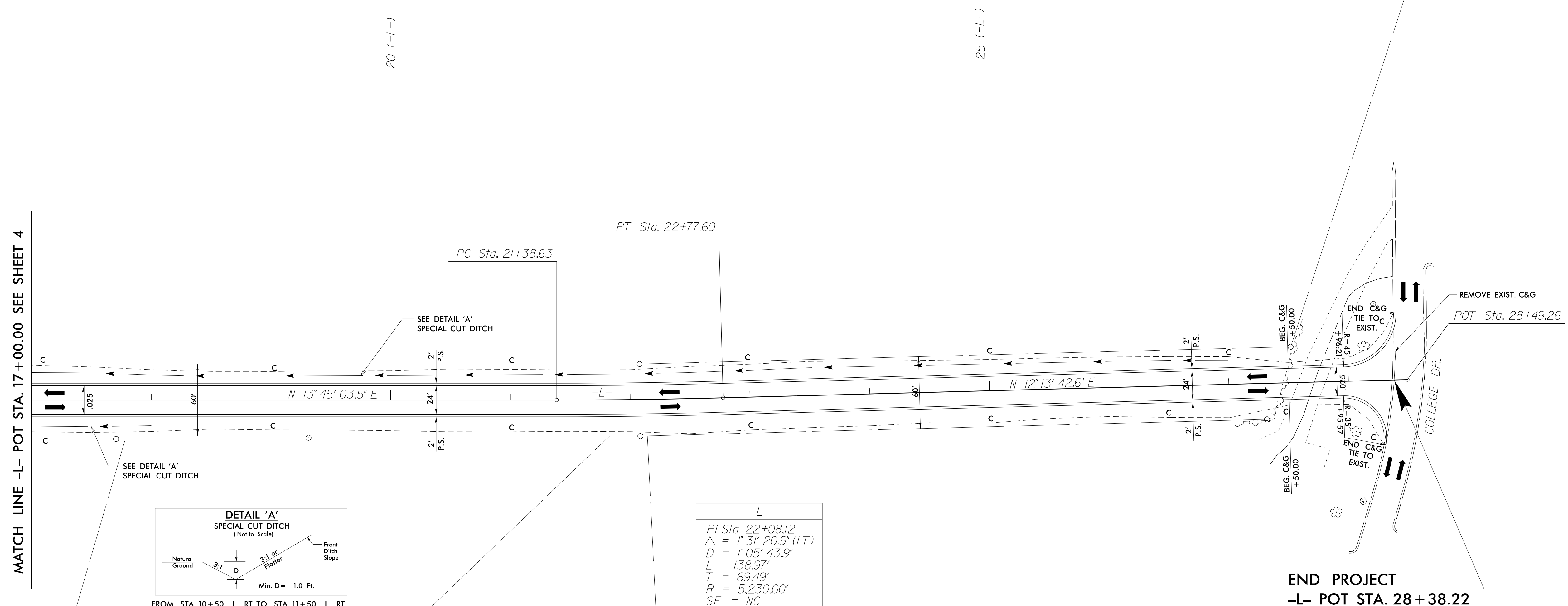
SEE SHEET 6 FOR -L- PROFILE
 SEE SHEET 7 FOR -Y1- PROFILE
 SEE SHEET 2B-1 FOR INTERSECTION DETAILS

Invalid expression for Rd_Psh_04.dgn
 USER: DONGHAI

5/14/99

PROJECT REFERENCE NO. 80028	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
David E. Keiser CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC CDA No. F-1255	A. T. Nottingham M Engineering, PLLC 1011 Schubb Drive Suite 100 Raleigh, NC 27608 NC CDA No.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83/NSRS 2007



FROM STA. 10+50 -L- RT TO STA. 11+50 -L- RT
 FROM STA. 13+50 -L- RT TO STA. 18+00 -L- RT
 FROM STA. 14+00 -L- LT TO STA. 27+00 -L- LT

-L-
 PI Sta 22+08.12
 $\Delta = 1^{\circ} 31' 20.9'' (LT)$
 $D = 1^{\circ} 05' 43.9''$
 $L = 138.97'$
 $T = 69.49'$
 $R = 5,230.00'$
 SE = NC
 DS = 40 MPH

SEE SHEET 6 FOR -L- PROFILE
 SEE SHEET 2B-1 FOR INTERSECTION DETAILS

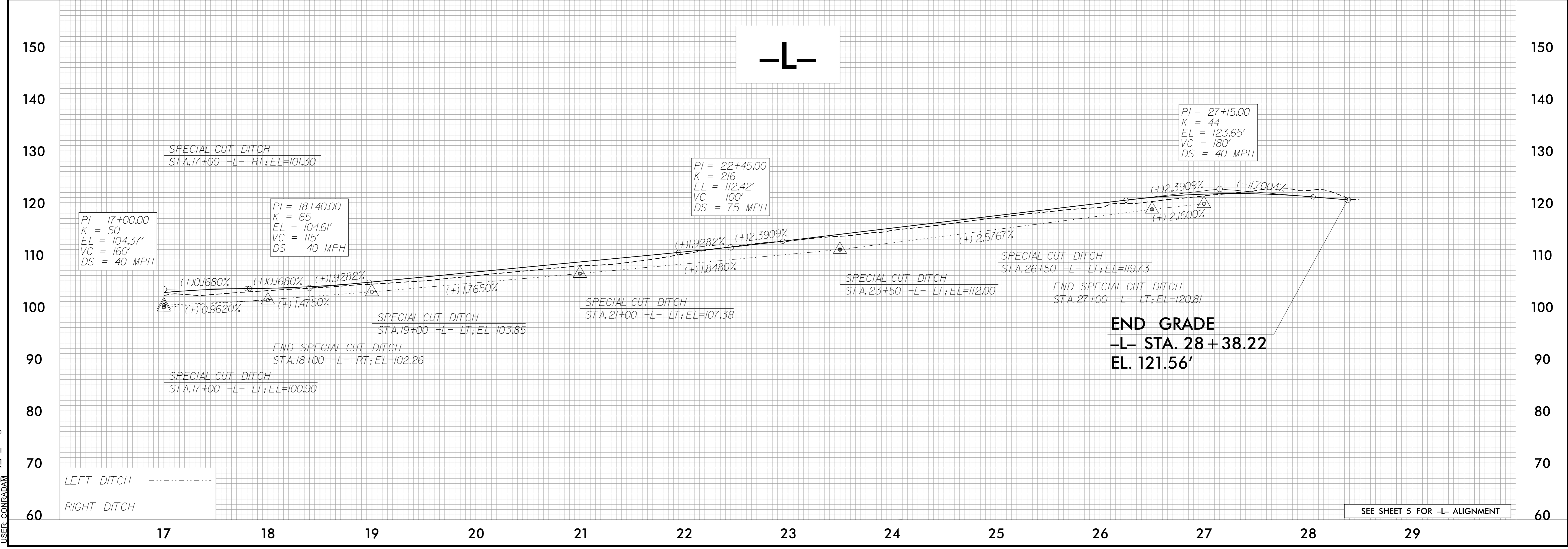
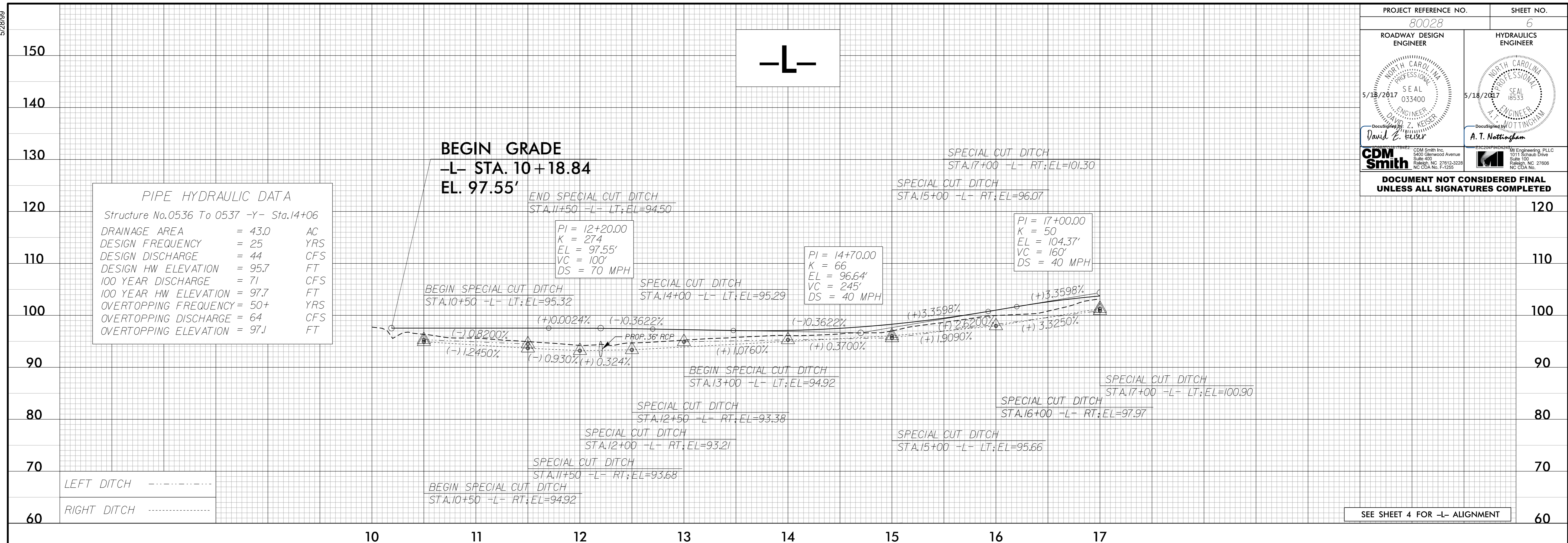
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 USEFB: CONVEYANCE

PROJECT REFERENCE NO. 80028	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
David E. Buser	A. T. Nottingham
CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC CDA No. E-1256	Engineering, PLLC 1011 Schaub Drive Suite 100 Raleigh, NC 27608 NC CDA No.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PIPE HYDRAULIC DATA

Structure No.0536 To 0537 -Y- Sta.14+06

DRAINAGE AREA	= 43.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 44	CFS
DESIGN HW ELEVATION	= 95.7	FT
100 YEAR DISCHARGE	= 71	CFS
100 YEAR HW ELEVATION	= 97.7	FT
OVERTOPPING FREQUENCY	= 50+	YRS
OVERTOPPING DISCHARGE	= 64	CFS
OVERTOPPING ELEVATION	= 97.1	FT

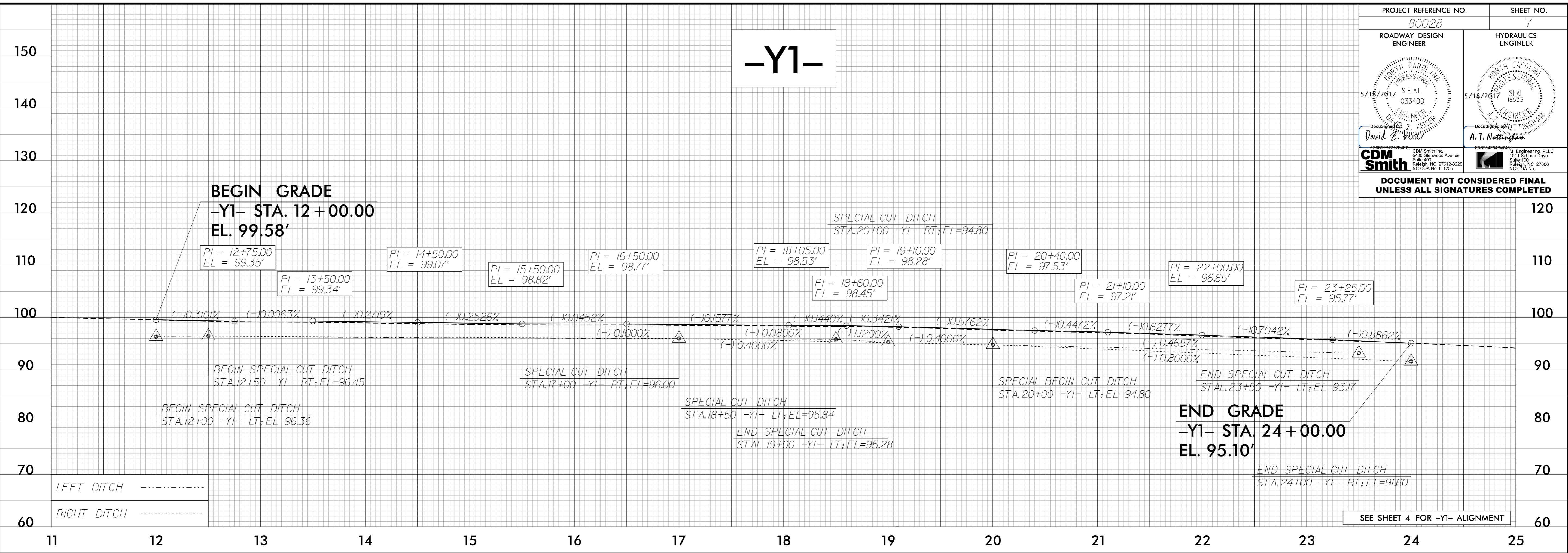


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USER: CONRAD

5/28/99

PROJECT REFERENCE NO. 80028	SHEET NO. 7
ROADWAY DESIGN ENGINEER David E. Kester	HYDRAULICS ENGINEER A. T. Nottingham
CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC CDA No. E-1256	M Engineering, PLLC 1011 Schaub Drive Suite 100 Raleigh, NC 27608 NC CDA No.
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-Y1-



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Invalid expression: User: CONRAD.M...
USER: CONRAD.M...