

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbolology of Sheets

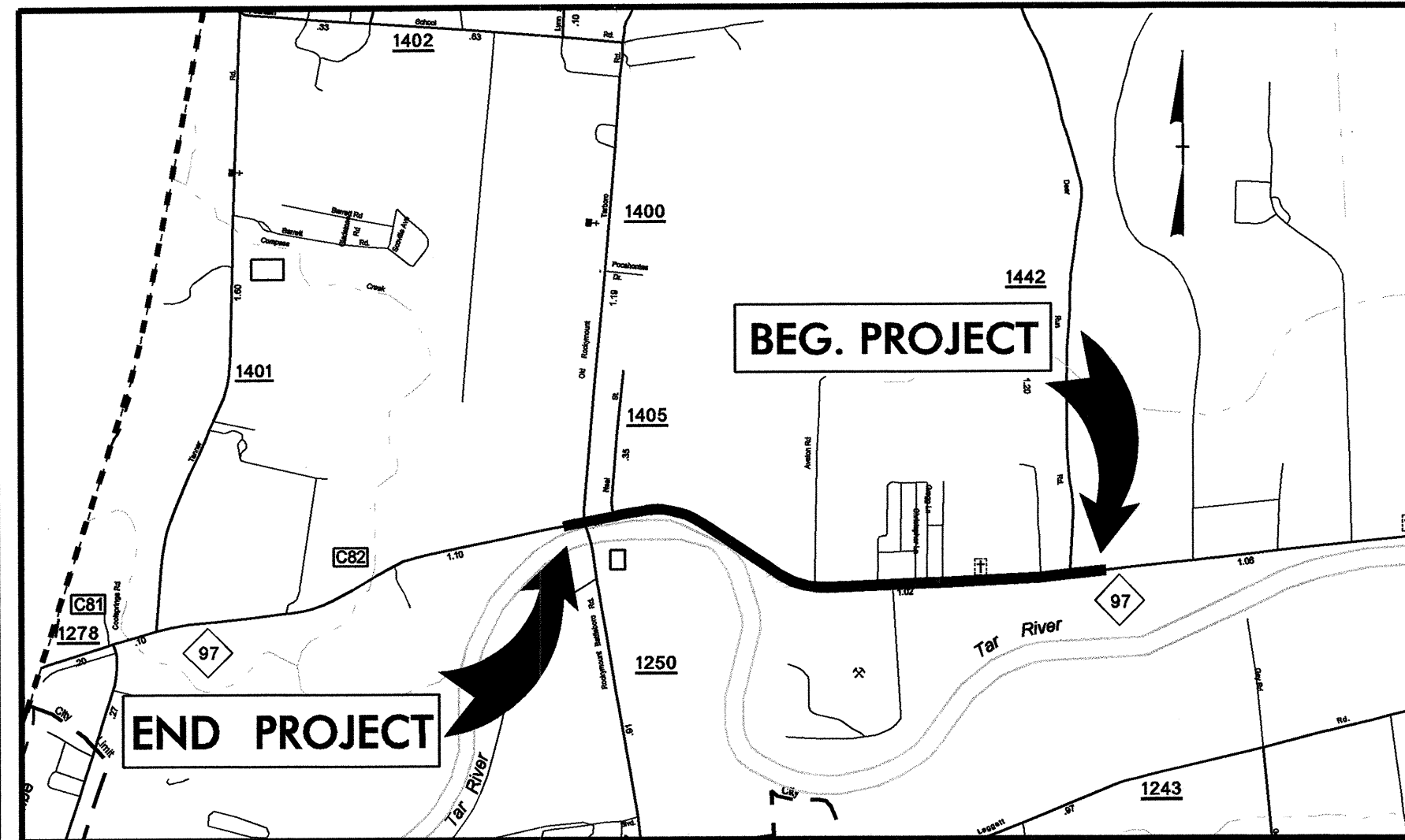
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

EDGECOMBE COUNTY

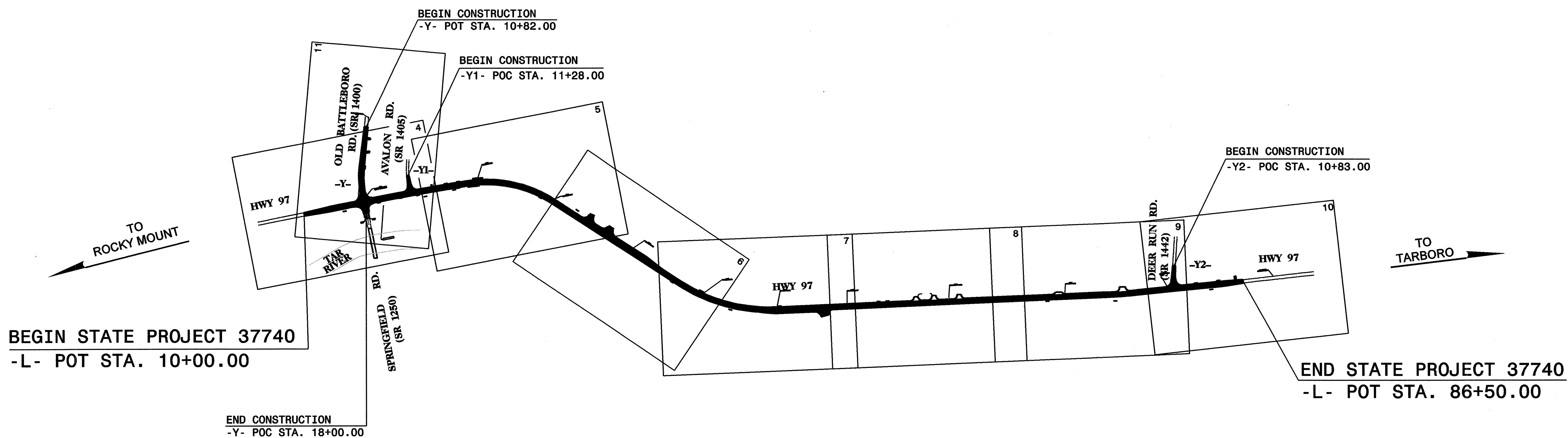
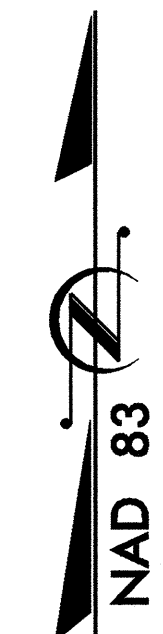
LOCATION: NC 97 FROM 0.1 MILES WEST OF SR 1400 (SPRING FIELD ROAD.) TO 0.1 MILES EAST OF SR 1442 (DEER RUN ROAD.)
TYPE OF WORK: GRADING, DRAINAGE, CURB AND GUTTER, WIDENING, PAVING AND GUARDRAIL.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37740	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
37740		PE, RW, UTILITIES, CONST.	
37740			

37740

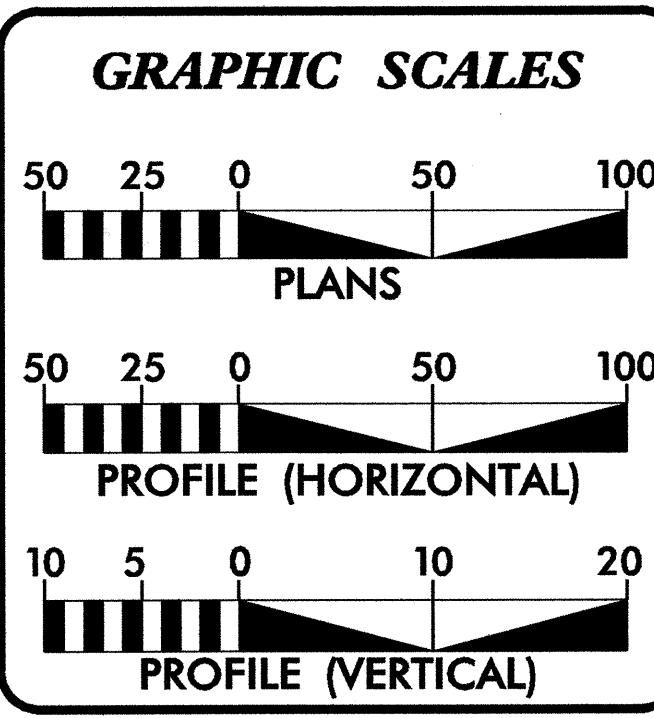


VICINITY MAP



NCDOT CONTACT: JERRY PAGE, P.E.
DIVISION PROJECT MANAGER, DIVISION FOUR

CONTRACT: C201822



DESIGN DATA

ADT 2005 =	4100
DHV =	10 %
D =	60 %
T =	35 % *
V =	50 MPH
* TTST 10%	DUAL 20%

PROJECT LENGTH

LENGTH ROADWAY PROJECT 37740 =	1.449 MILES
TOTAL LENGTH STATE PROJECT 37740 =	1.449 MILES

PB PARSONS BRINCKERHOFF
909 AVIATION PARKWAY
SUITE 1500
MORRISVILLE, NC 27560

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 16, 2004

LETTING DATE:
— JUNE 19, 2007 —

GREG HEINZ, P.E.
PROJECT ENGINEER

ROLAND ROBINSON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SEAL 23924

DANIEL H. BRIDGES
ENGINEER

ROADWAY DESIGN ENGINEER

SEAL 29243

GREGORY C. HEINZ
ENGINEER

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE DESIGN ENGINEER

**DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

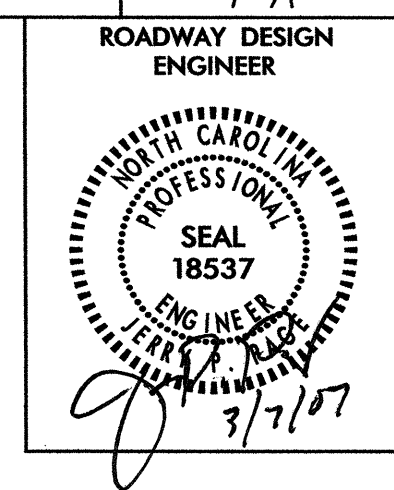
APPROVED

DIVISION ADMINISTRATOR

DATE

2/28/2007
G:\Projects\20344\NC 97\TIP\Plan Review Changes\Roadway\Proj\nc97_rdy_tsh.dgn
-USERAME-

STATE OF NORTH CAROLINA
EDGEcombe COUNTY



INDEX OF SHEETS

Table with 2 columns: SHEET NUMBER and SHEET. Lists sheets 1 through X-1 with their respective titles.

GENERAL NOTES

2002 SPECIFICATIONS
EFFECTIVE: 01-15-02
REVISED: 05-14-03
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.

ROADWAY STANDARD DRAWINGS

ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01-15-02
REV. 11-23-04

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY 15, 2002 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

Table with 2 columns: STD. NO. and TITLE. Lists various roadway standards such as DIVISION 2 - EARTHWORK, DIVISION 3 - PIPE CULVERTS, etc.

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	○ EP
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	②③
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	○ S
Well	○ W
Small Mine	⋈
Foundation	□
Area Outline	□
Cemetery	□ †
Building	□
School	□
Church	□
Dam	-----

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
River Basin Buffer	----- RBB
Flow Arrow	-----
Disappearing Stream	-----
Spring	○
Swamp Marsh	-----
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	-----
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	○ 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 Utility Easement	----- PUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Wheel Chair Ramp	----- WCR
Curb Cut for Future Wheel Chair Ramp	----- CCFR
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	----- 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	⊕
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	----- P
Designated U/G Power Line (S.U.E.*)	----- P

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	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

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	----- A/G Water

TV:

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

GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	----- A/G Gas

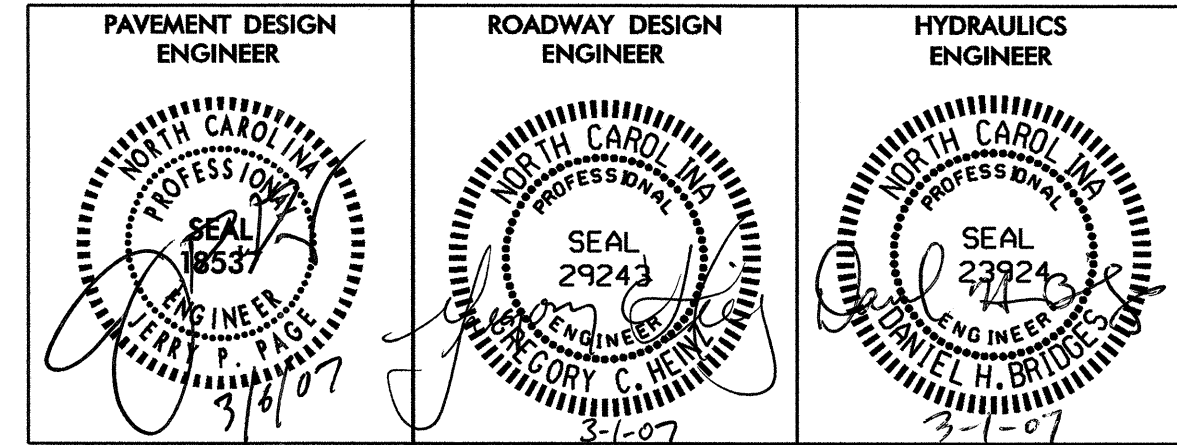
SANITARY SEWER:

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

MISCELLANEOUS:

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

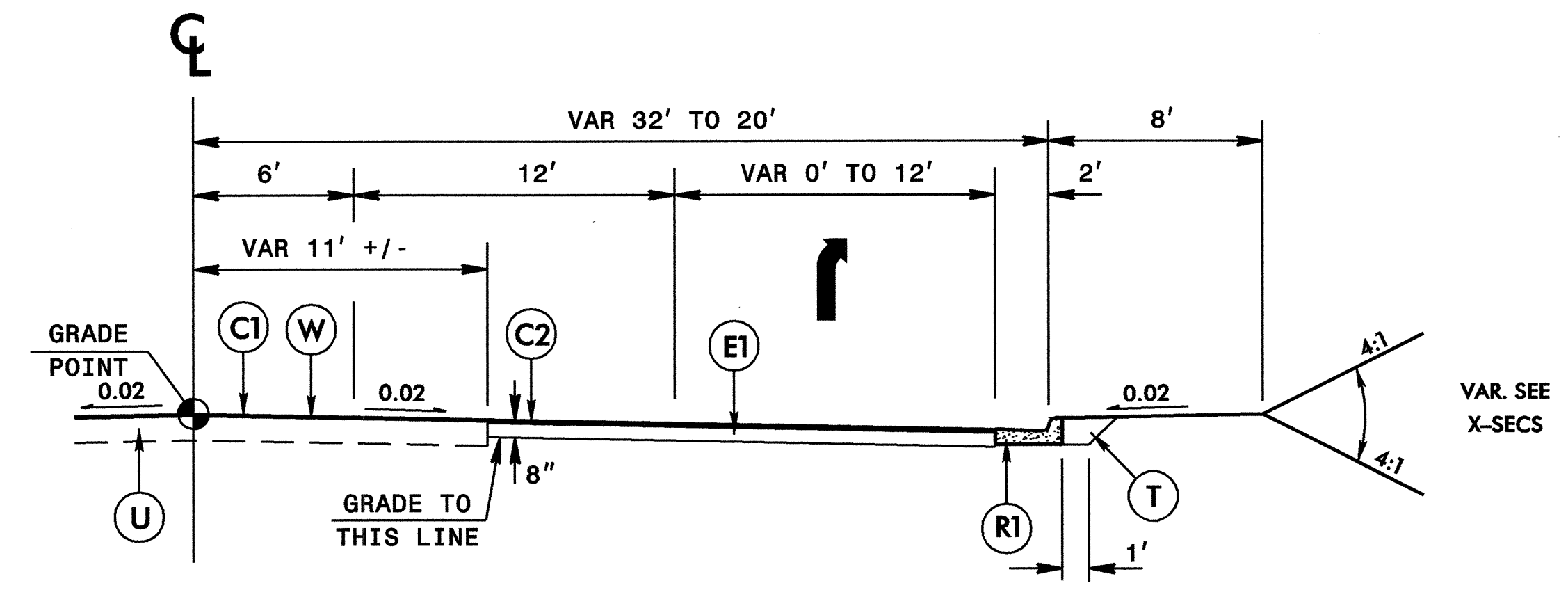
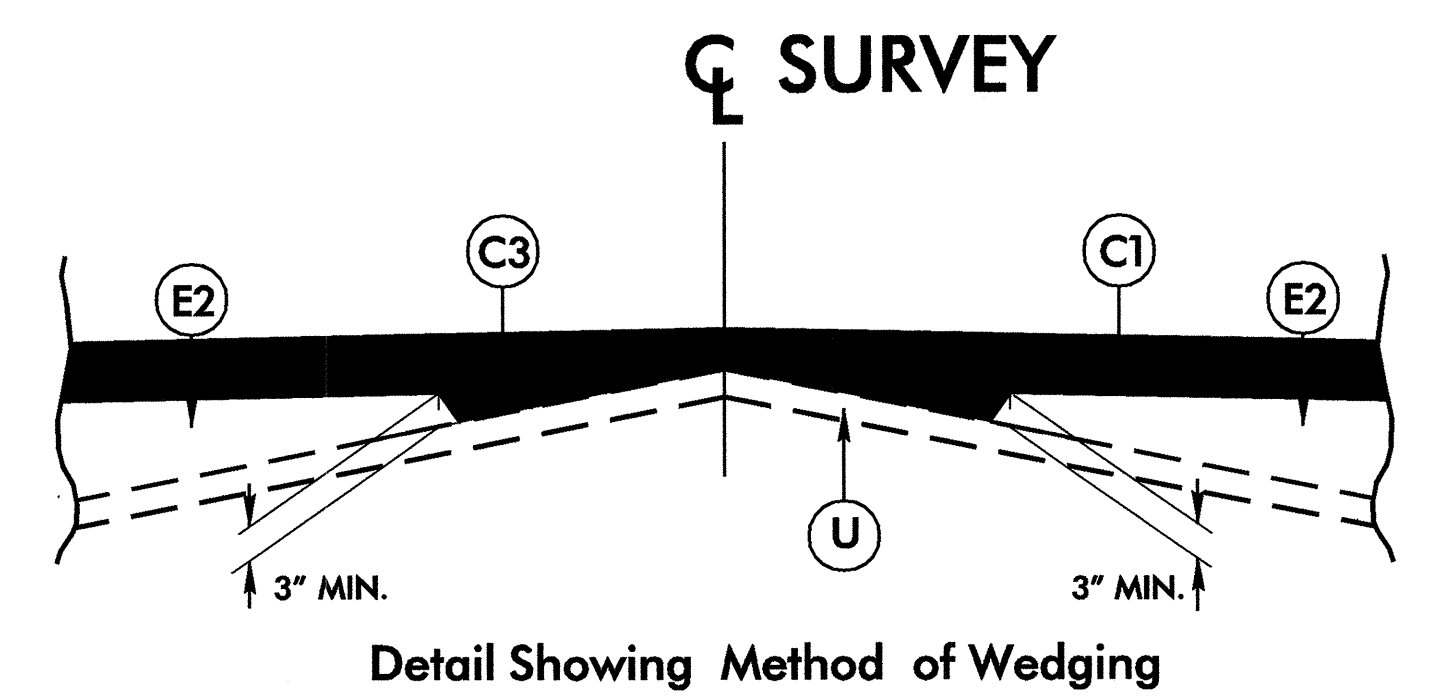
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 3/25/2015



PAVEMENT SCHEDULE

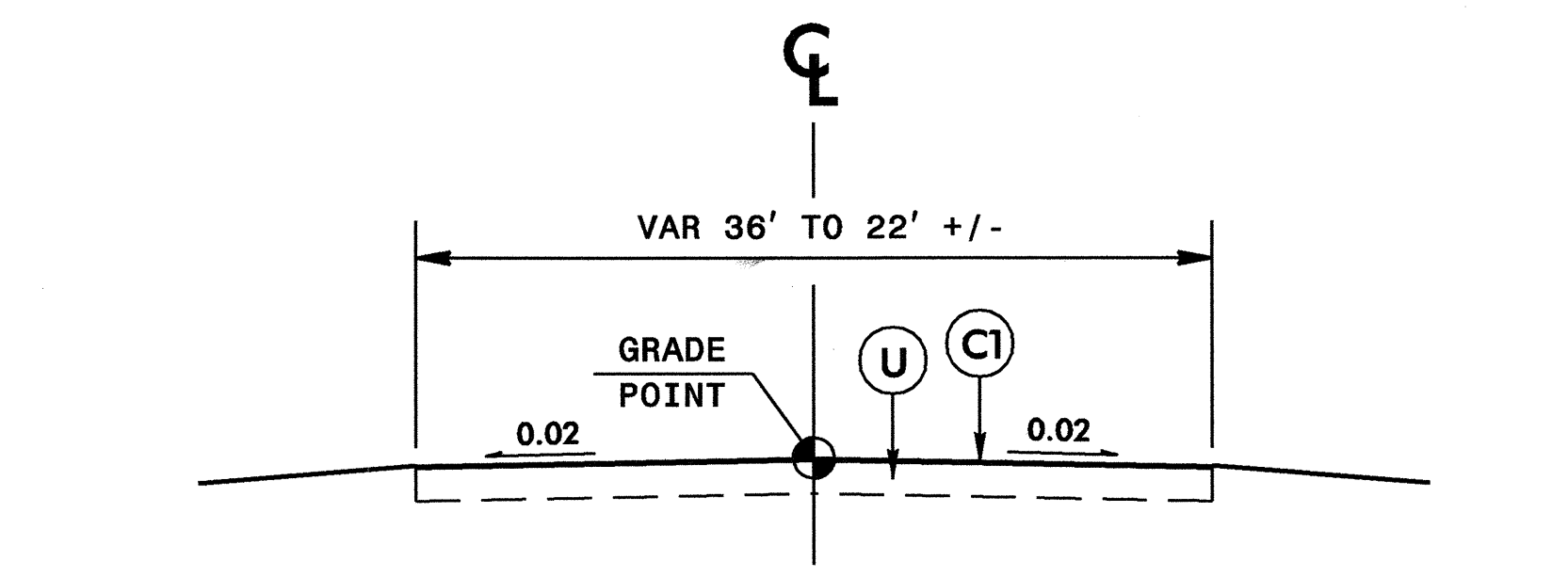
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS	T	EARTH MATERIAL.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	U	EXISTING PAVEMENT.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5 1/2" IN DEPTH.		

NOTE: ALL PAVEMENT SLOPES ARE 1:1 UNLESS NOTED OTHERWISE



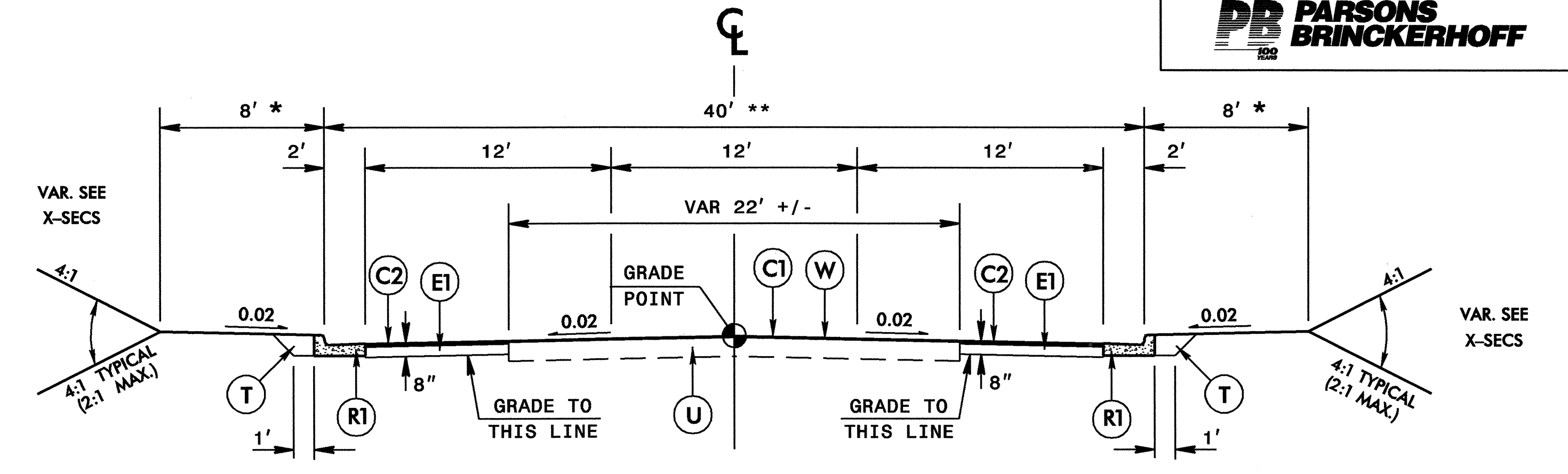
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1

- L- STA. 32+58.10 TO STA. 40+50.00 LT
- L- STA. 48+50.00 TO STA. 54+23.62 RT



USE TYPICAL SECTION NO. 5 AS FOLLOWS:

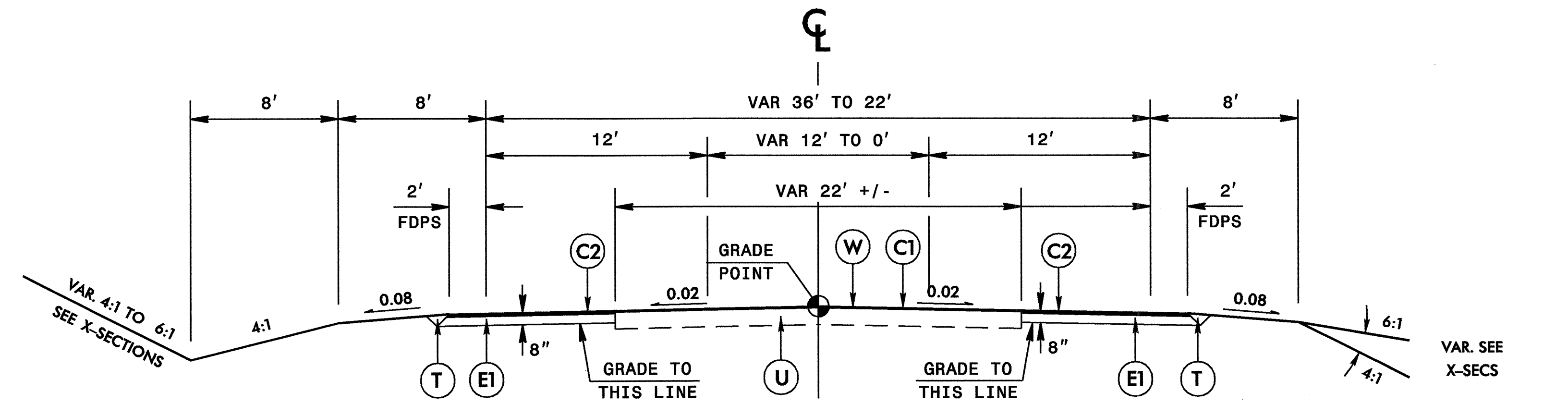
- Y- STA. 17+65 TO STA. 18+00



- * USE 4' BERM AS FOLLOWS:**
- L- RT STA 19+95 TO STA 20+85
 - L- RT STA 23+00 TO STA 24+00
 - L- RT STA 32+50 TO STA 34+70
 - L- LT STA 43+45 TO STA 43+90
 - L- LT STA 84+30 TO STA 84+85

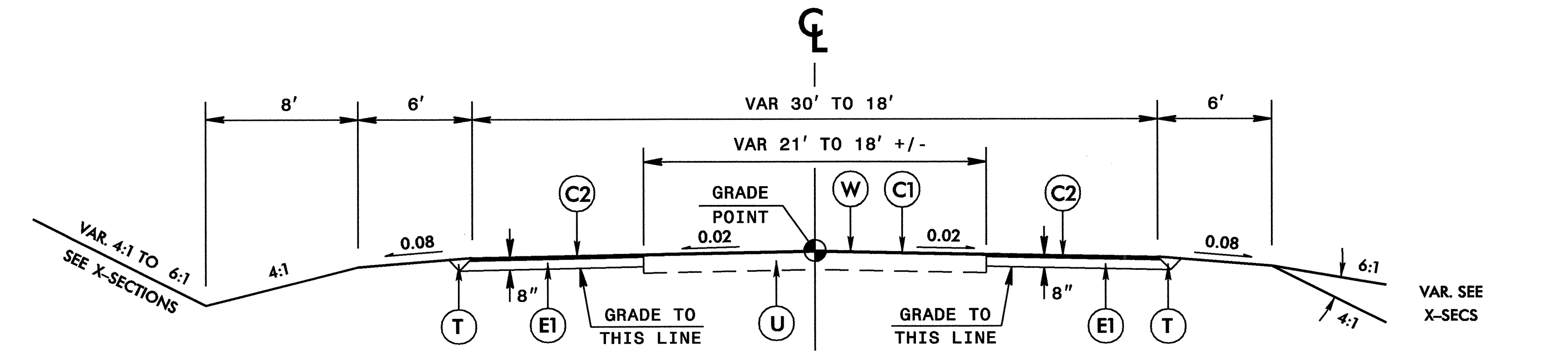
USE TYPICAL SECTION NO. 1 AS FOLLOWS:

- L- STA. 12+10 TO STA. 85+00
- Y- STA. 15+74 TO STA. 16+53.71
- Y- STA. 16+89.73 TO STA. 17+65 (17+45 LT)
- Y1- STA. 12+03 TO 12+50.61 (** 34' FF)
- Y2- STA. 11+83 TO STA. 12+45.55 (** 34' FF)



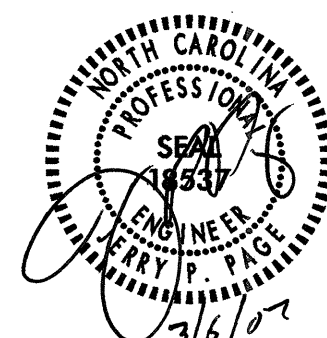
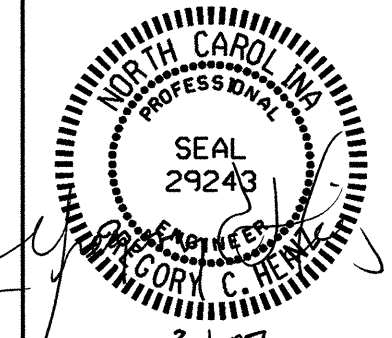

USE TYPICAL SECTION NO. 2 AS FOLLOWS:

- L- STA. 10+00 TO STA. 12+10
- L- STA. 85+00 TO STA. 86+50
- Y- STA. 10+82 TO STA. 15+74



USE TYPICAL SECTION NO. 3 AS FOLLOWS:

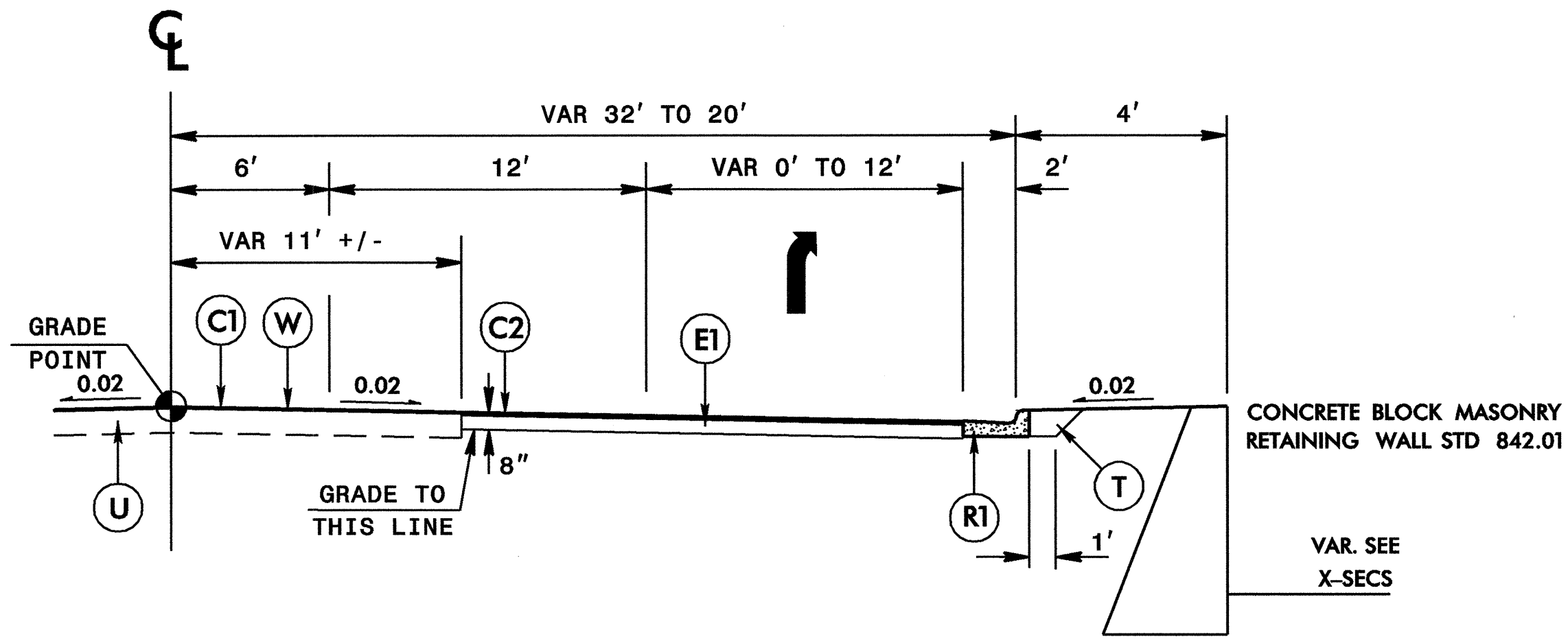
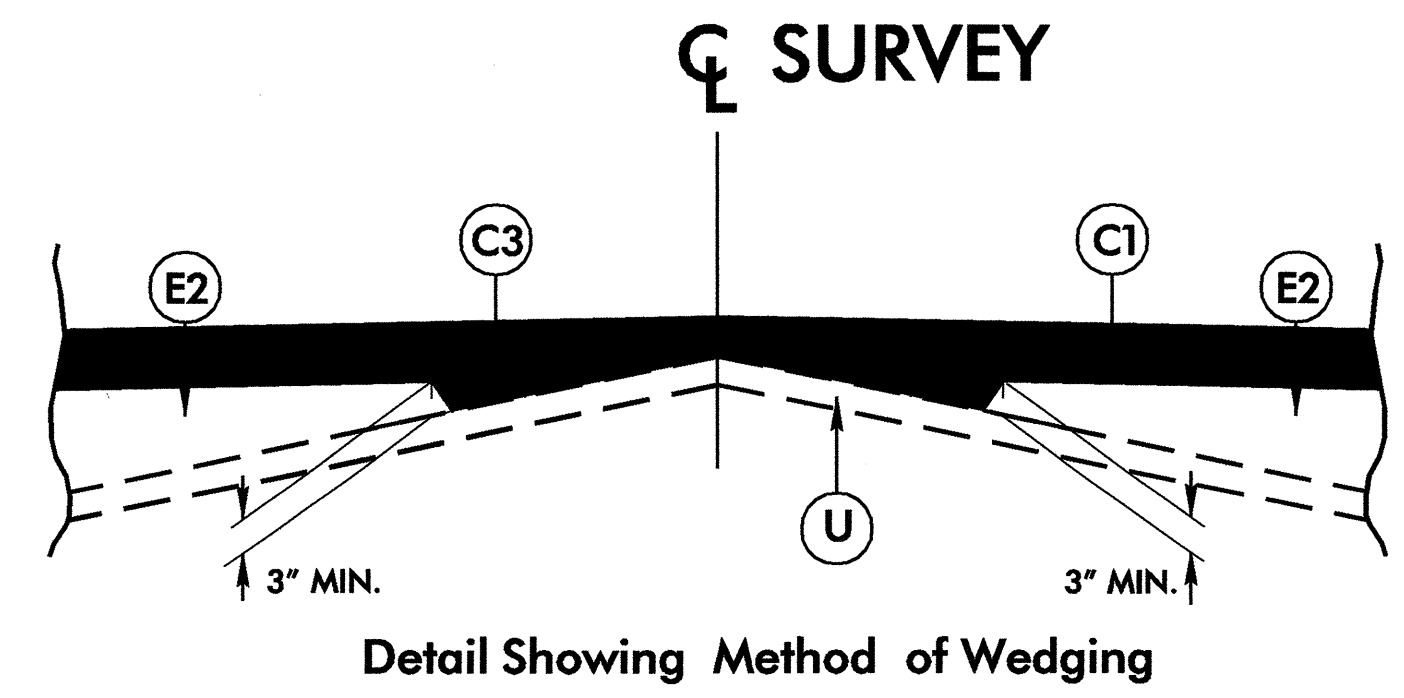
- Y1- STA. 11+28 TO STA. 12+03
- Y2- STA. 10+83 TO STA. 11+83

PROJECT REFERENCE NO.	37740	SHEET NO.	2A
RW SHEET NO.	2A		
PAVEMENT DESIGN ENGINEER	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
			
PARSONS BRINCKERHOFF			

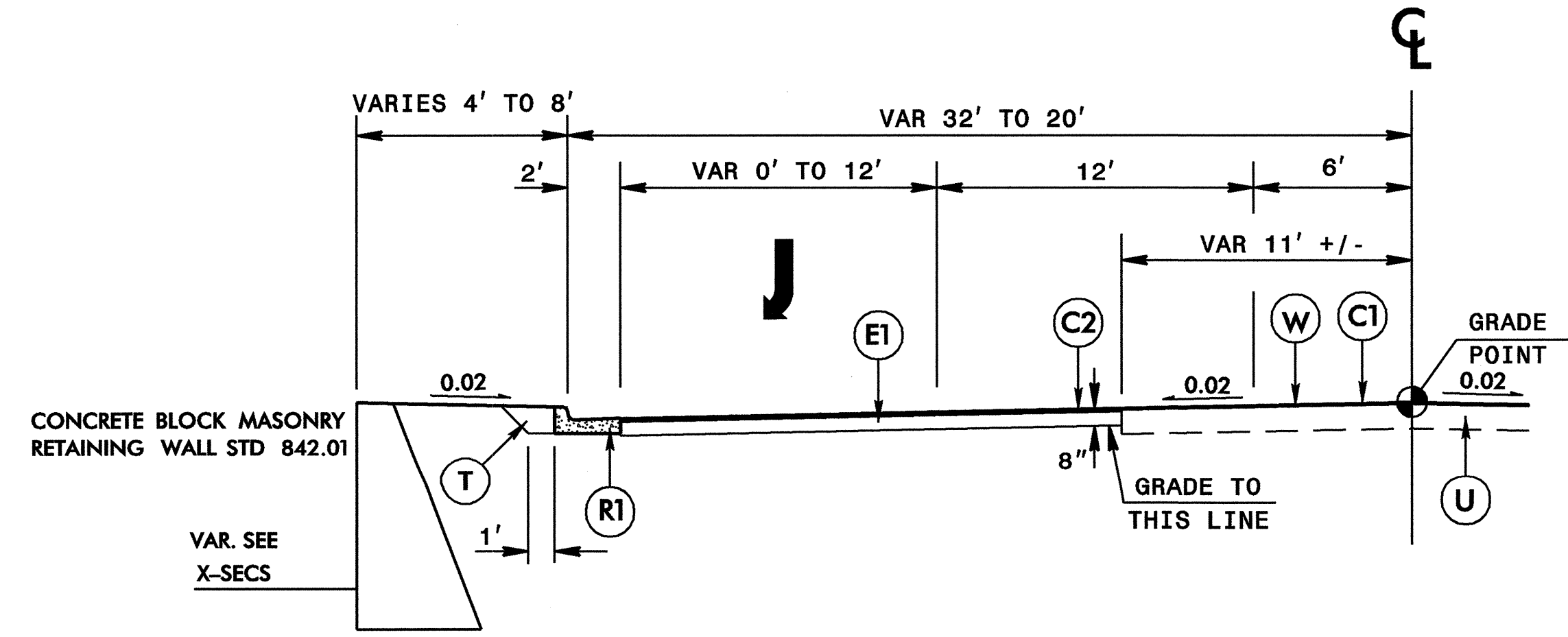
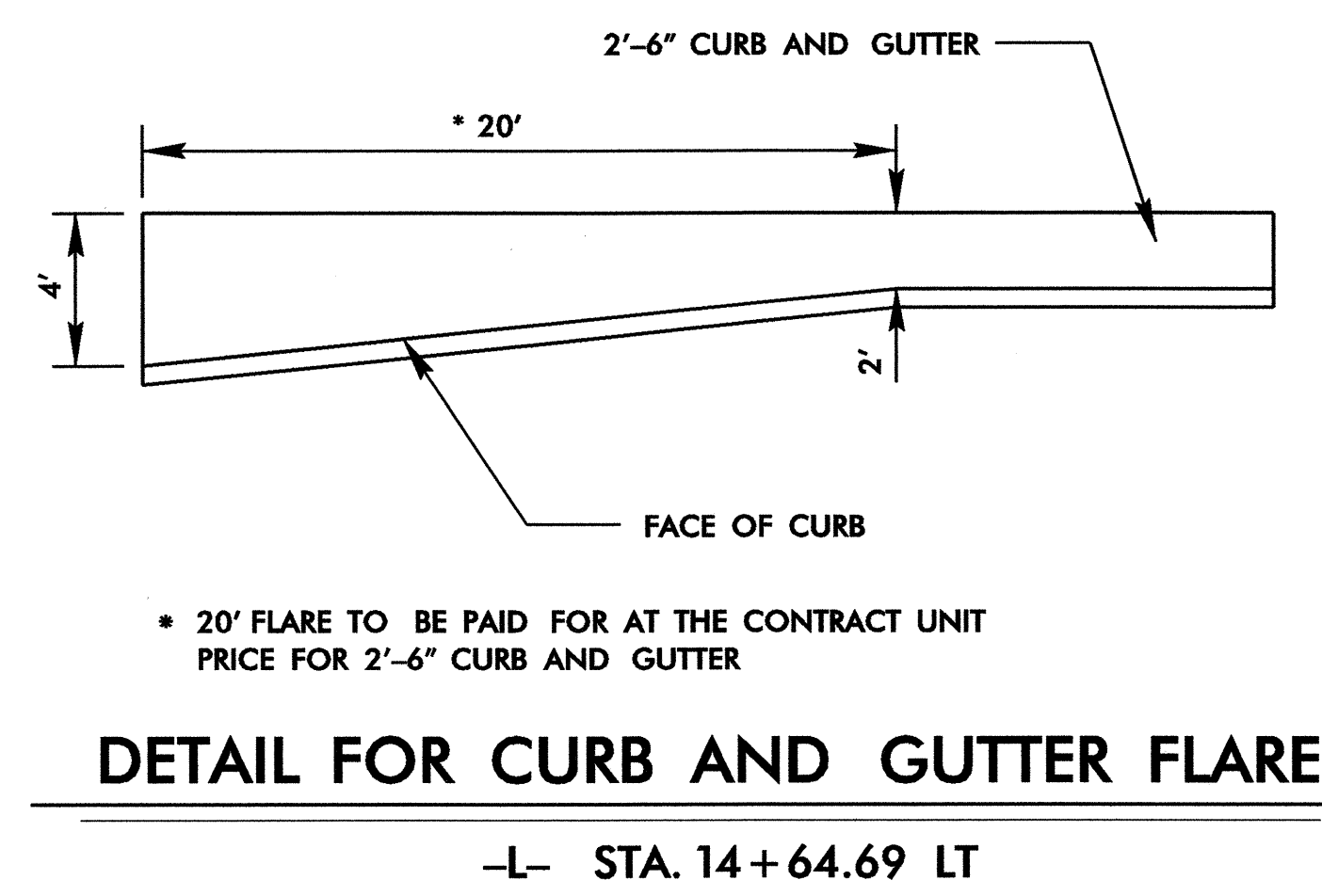
PAVEMENT SCHEDULE

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NOTE: ALL PAVEMENT SLOPES ARE 1:1 UNLESS NOTED OTHERWISE



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1
 -L- STA. 23+00.00 TO STA. 24+00.00 RT



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1
 -L- STA. 23+45.02 TO STA. 24+30.00 LT
 -L- STA. 43+45.01 TO STA. 43+90.00 LT
 -L- STA. 84+40.76 TO STA. 84+72.70 LT

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 2/28/2007

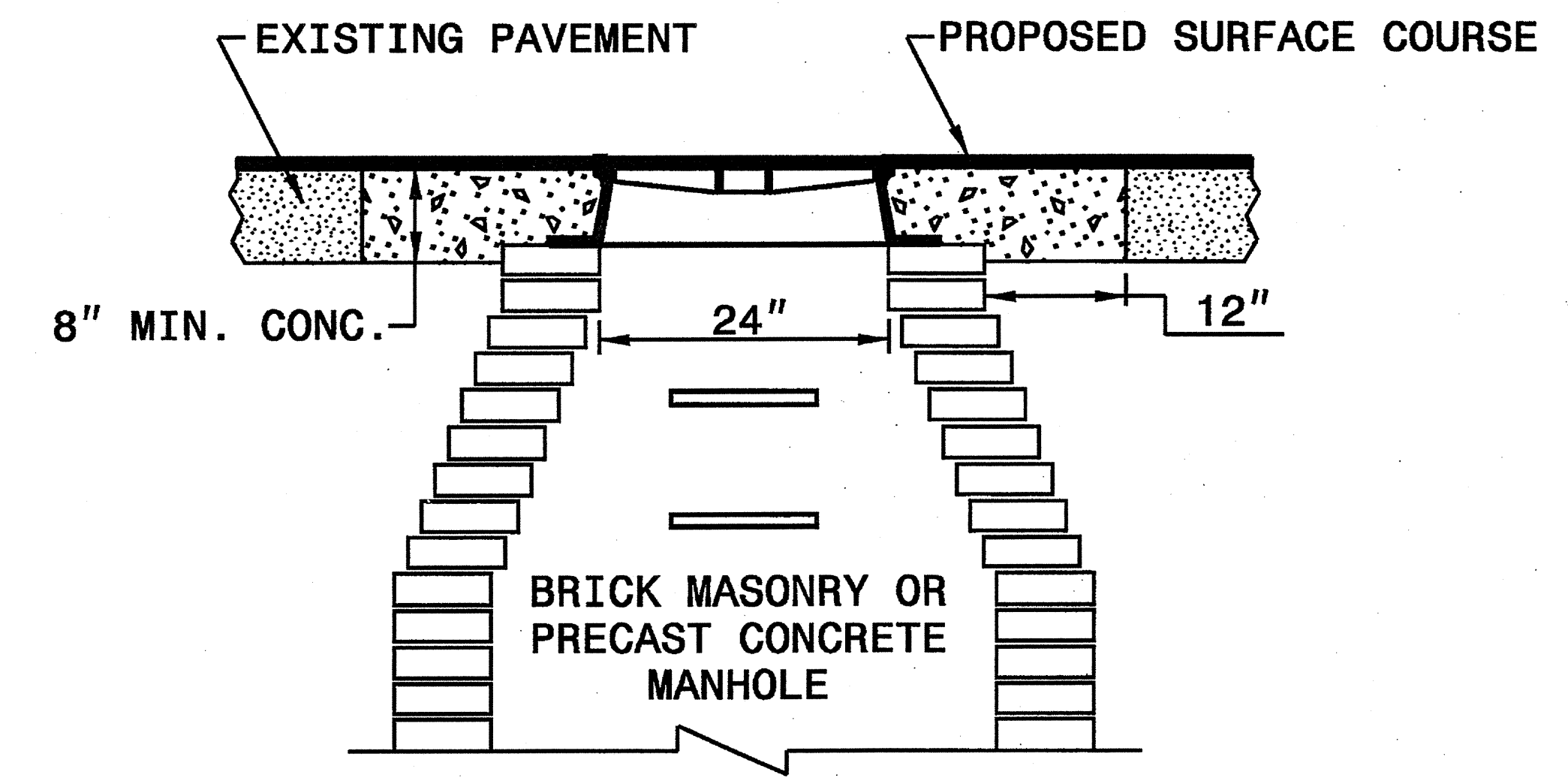
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

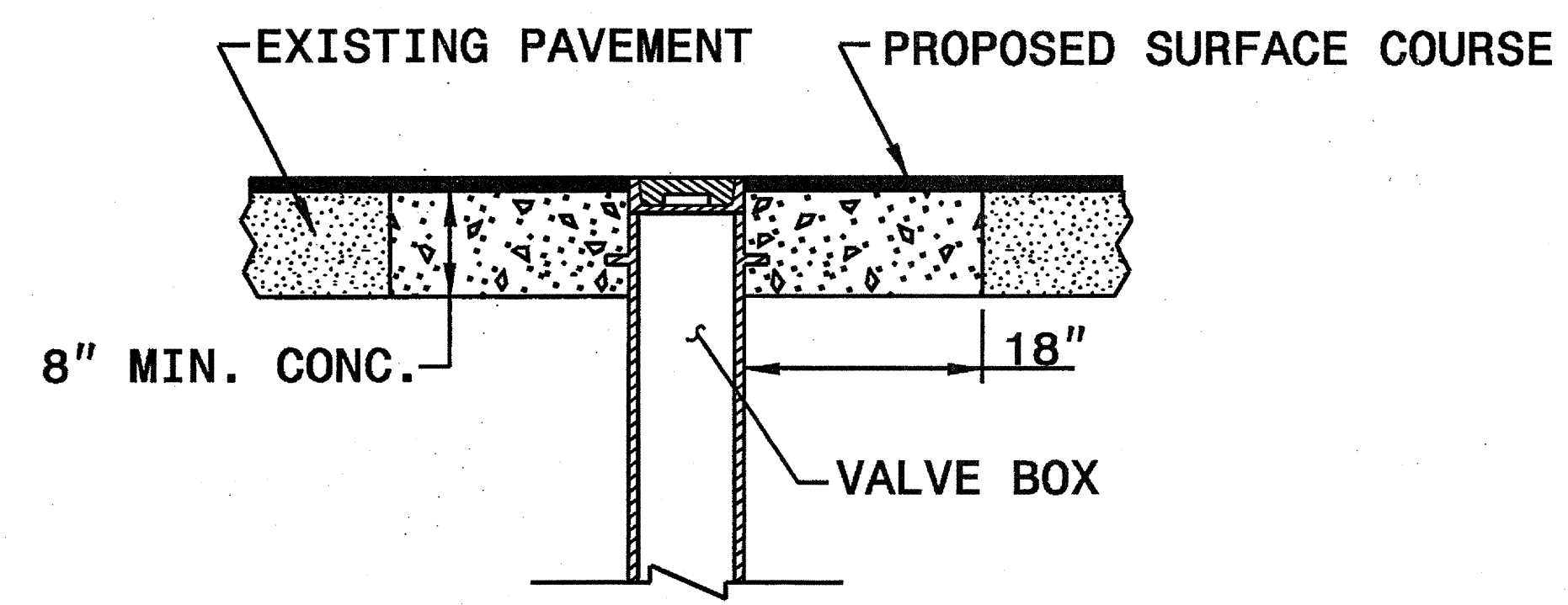
SHEET 1 OF 1
840D55

GENERAL NOTES:

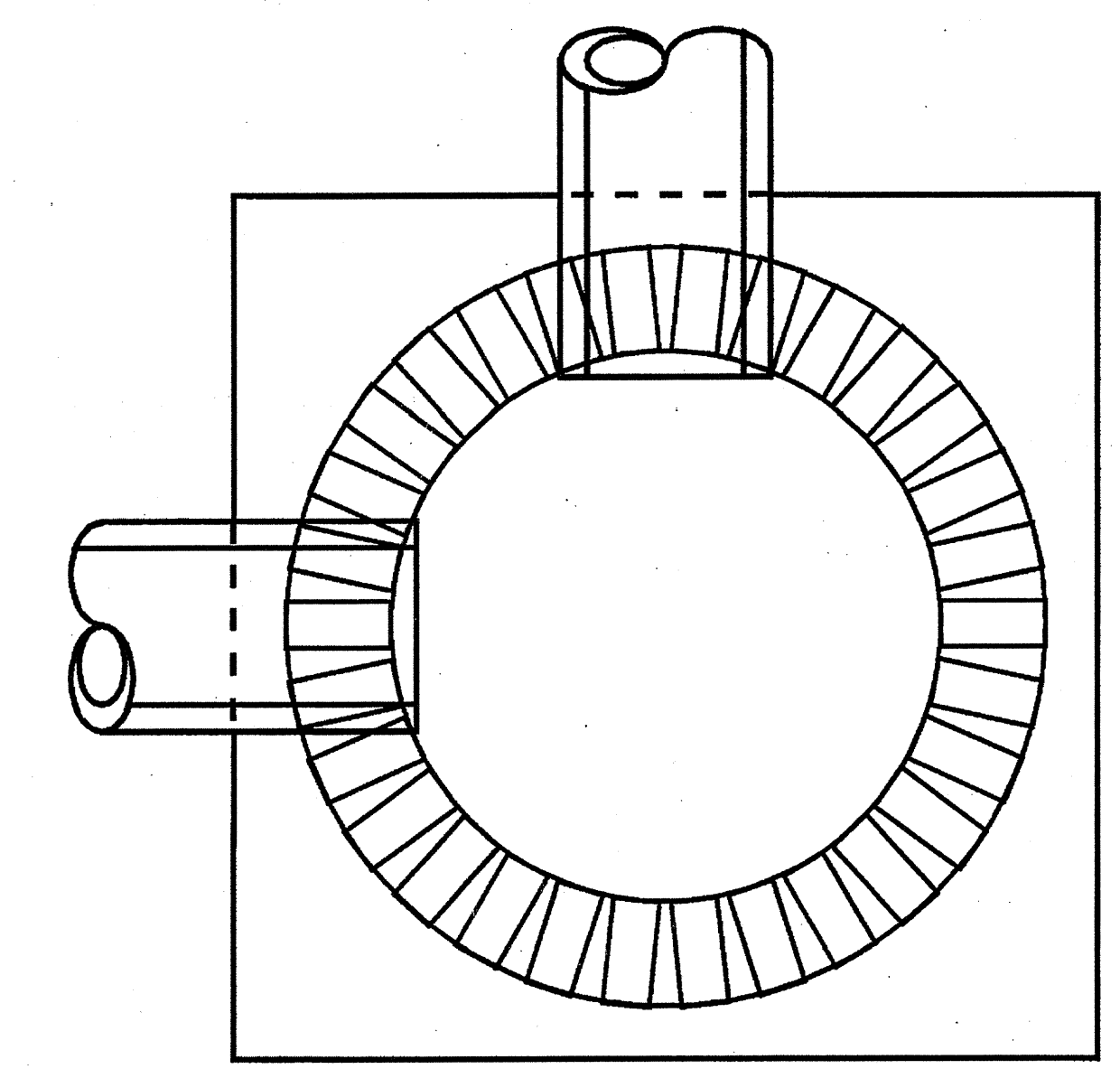
1. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.
3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES.
4. AREA BELOW 8" DEPTH CAN BE FILLED WITH 78M OR NO. 57 CLEAN STONE.
5. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS $\frac{1}{2}$ " \pm $\frac{1}{8}$ "



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



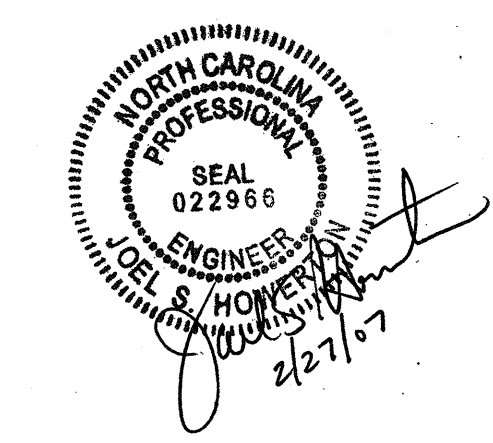
ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

SHEET 1 OF 1
840D55



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

SEE PLATE FOR TITLE

ORIGINAL BY:	DATE:
MODIFIED BY: E.E. WARD	DATE:
CHECKED BY:	DATE:
FILE SPEC.: /usr/details/stand/840d55.dgn	

26-OCT-2004 11:35
W:\Special Details\ecoward\usr\details\stand\840d55.dgn
ecoward AT DS212260

25-OCT-2004 11:03
 W:\Special Details\erickward\stds\02\stds to Special Details/english\848d02\0848d02.dgn
 erickward A1 DS212260

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
DRIVEWAY TURNOUT
 RADIUS TYPE

SHEET 1 OF 2
848D02

**PLAN
 DETAIL OF DRIVEWAY**

METHOD OF TIE IN
 WHEN EXISTING DRIVEWAY PAVEMENT IS CONCRETE, SAW CUT 2" DEEP JOINT AT THE POINT OF TIE-IN. SAW JOINT PERPENDICULAR TO EDGE OF EXISTING DRIVEWAY PAVEMENT.

SECTION C-C
 BUILD THIS PORTION OF DRIVEWAY PAVEMENT ONLY AT LOCATIONS WHEN DIRECTED.
 VARIABLE (SEE SHEET 2 OF 2 FOR DRIVEWAY GRADES) 6" 2'-0"
 2" 2'-6"
 PROPOSED PAVEMENT
 VARIABLE RADIUS 3'-0" OR AS SHOWN ON PLANS DRIVEWAY TURNOUT

* SIDEWALK TAPERS DOWN 6" BACK FROM DRIVEWAY.

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
DRIVEWAY TURNOUT
 RADIUS TYPE

SHEET 1 OF 2
848D02

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
DRIVEWAY TURNOUT
 DRIVEWAY GRADES

SHEET 2 OF 2
848D02

DESIRABLE DRIVEWAY GRADES

DESIRABLE OR MAXIMUM DRIVEWAY GRADES	
BERM WIDTH	GRADE
8' OR LESS	+2%*
8' OR LESS	+6%
10'	+4%
12' & OVER	+4%

* SIDEWALK LOCATION (DO NOT PLACE SIDEWALK ON BERMS LESS THAN 6' WIDE.)

MAXIMUM DRIVEWAY GRADES

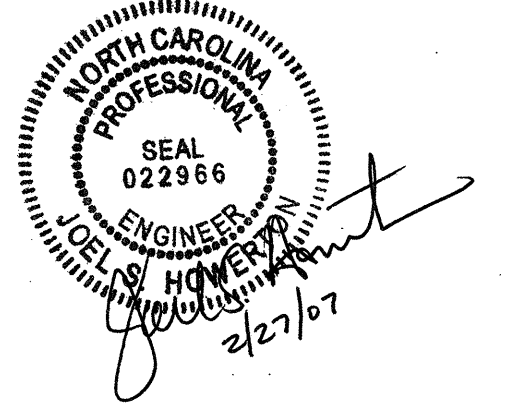
ROADWAY PAVEMENT

ROADWAY PAVEMENT

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
DRIVEWAY TURNOUT
 DRIVEWAY GRADES

SHEET 2 OF 2
848D02



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

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STD. 848.02 DATE:
 MODIFIED BY: E.E. WARD DATE: 03-27-03
 CHECKED BY: DATE:
 FILE SPEC.: /usr/stds/02todetail/english/84802/848d02.dgn

NOTES

FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE SPECIAL PROVISIONS.

SELECT THE APPROPRIATE STANDARD SHORING DESIGN FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC IN LIEU OF SUBMITTING CONTRACTOR SHORING DESIGN. USE STANDARD SHORING DESIGN ONLY WHEN ALL OF THE FOLLOWING CRITERIA ARE MET:

- MAXIMUM HEIGHT OF SHORING EXCAVATION IS 11 FEET
- GROUNDWATER TABLE IS NOT ABOVE BOTTOM OF THE EXCAVATION
- BACKFILL SLOPE IS 2:1 OR FLATTER
- TRAFFIC SURCHARGE EQUAL TO 240 PSF
- SOLDIER PILE SPACING OF 6 FEET
- TIMBER LAGGING SHALL HAVE A MINIMUM THICKNESS OF 3 INCHES

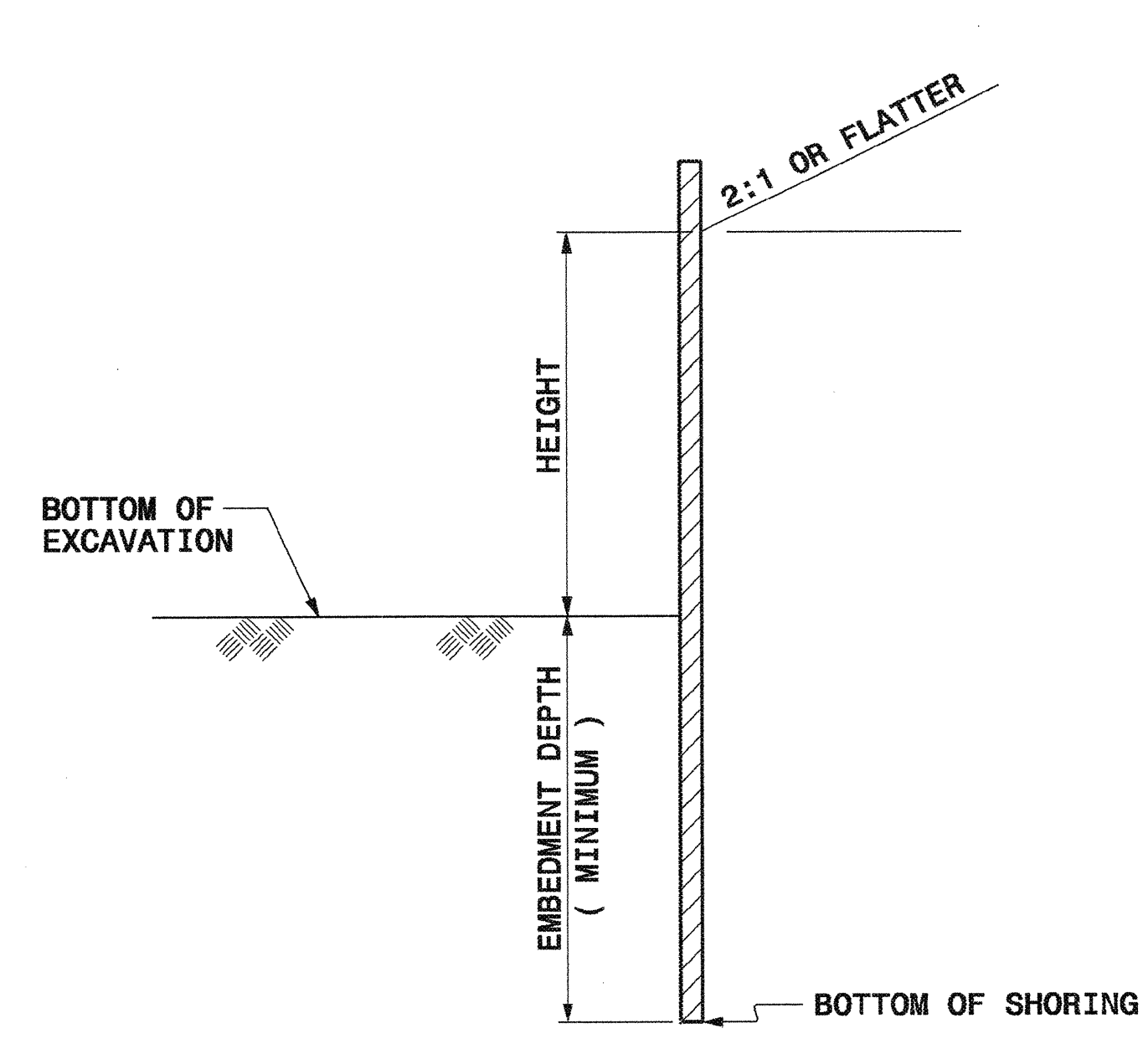
SUBMIT "STANDARD SHORING SELECTION" FORM TO ENGINEER PRIOR TO CONSTRUCTION OF SHORING.

DO NOT USE THE STANDARD SHORING DESIGNS WHEN VERY SOFT SOIL OR MUCK IS PRESENT WITHIN THE SHORING EMBEDMENT ZONE.

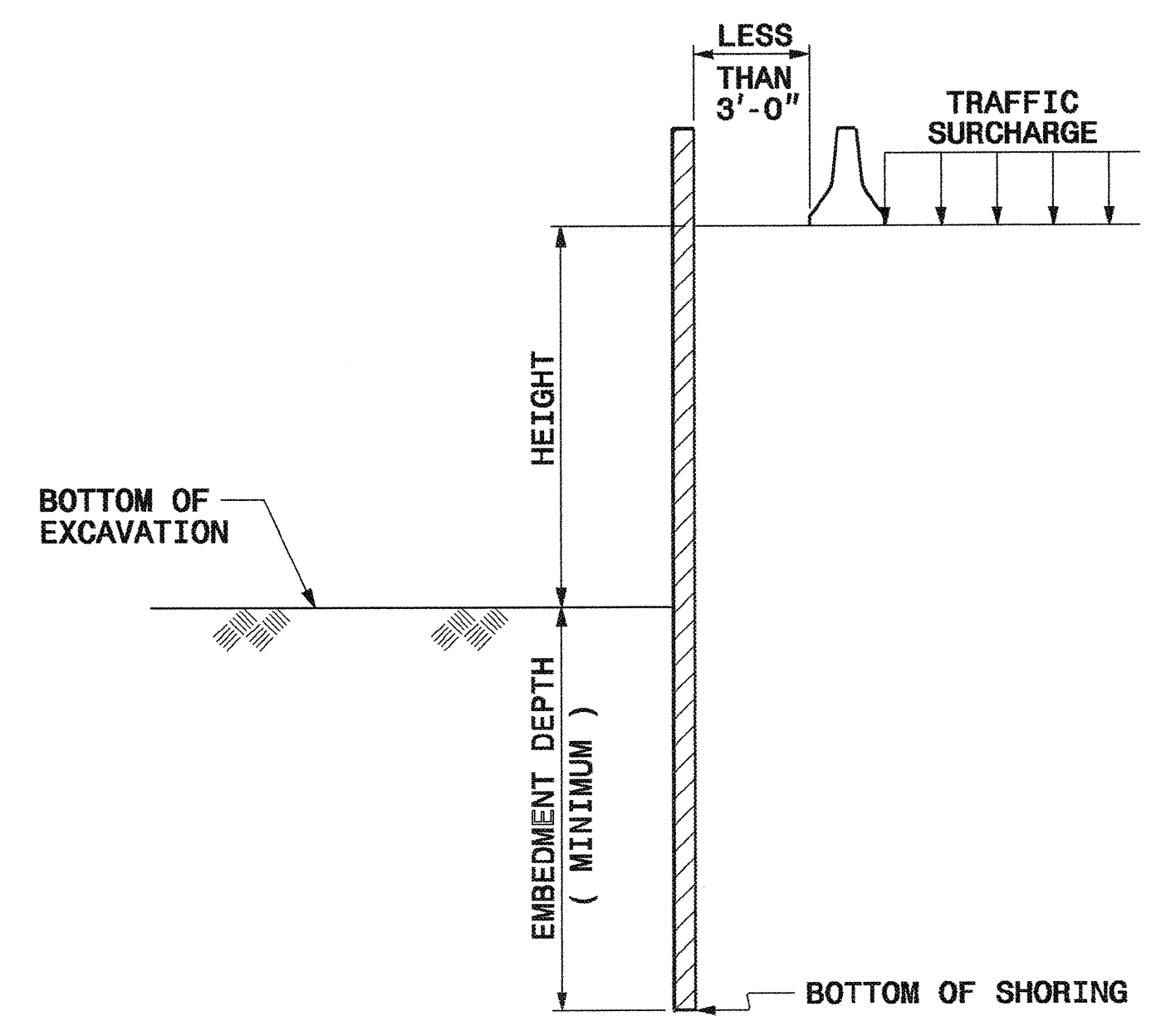
CONTRACTOR MUST VERIFY LOCATION OF GROUNDWATER TABLE PRIOR TO CONSTRUCTION OF SHORING.

THE CONTRACTOR HAS THE OPTION OF USING SOLDIER PILES SET IN DRILLED HOLES WITH A SHORTENED LENGTH EQUAL TO 75% OF THE EMBEDMENT DEPTHS SHOWN IN THE TABLE. FOR DRILLING REQUIREMENTS, SEE TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC SPECIAL PROVISION.

IF DESIGN EMBEDMENT DEPTH IS NOT ACHIEVED, THEN NOTIFY THE ENGINEER IMMEDIATELY.



TEMPORARY SHORING
(SLOPING OR LEVEL WITH TRAFFIC SURCHARGE, NO BARRIER IMPACT)

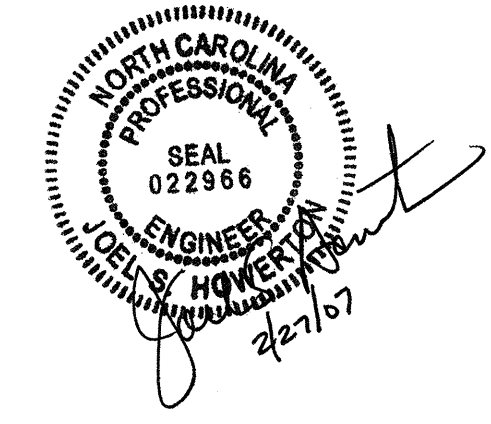


TEMPORARY SHORING - BARRIER SUPPORTED
(LEVEL WITH TRAFFIC SURCHARGE, WITH BARRIER IMPACT)

GROUNDWATER TABLE CONDITIONS

- 1) WHEN WATER TABLE IS ABOVE THE BOTTOM OF EXCAVATION, SUBMIT CONTRACTOR SHORING DESIGN TO THE ENGINEER FOR APPROVAL.
- 2) WHEN WATER TABLE IS BELOW THE BOTTOM OF EXCAVATION AND ABOVE THE BOTTOM OF SHORING, USE "WATER TABLE" CASE.
- 3) WHEN WATER TABLE IS BELOW BOTTOM OF SHORING, USE "NO WATER TABLE" CASE.

CASE	HEIGHT (FT)	TEMPORARY SHORING					TEMPORARY SHORING - BARRIER SUPPORTED				
		CANTILEVER SHEETING		DRIVEN SOLDIER PILE			CANTILEVER SHEETING		DRIVEN SOLDIER PILE		
		MINIMUM EMBEDMENT DEPTH (FT)	MINIMUM SECTION MODULUS (IN ³ / FT OF WALL)	MINIMUM EMBEDMENT DEPTH (FT)			MINIMUM EMBEDMENT DEPTH (FT)	MINIMUM SECTION MODULUS (IN ³ / FT OF WALL)	MINIMUM EMBEDMENT DEPTH (FT)		
			HP 10x42	HP 12x53	HP 14x73			HP 10x42	HP 12x53	HP 14x73	
"NO WATER TABLE"	< 6	7.5	3.0	8.0	8.0	8.0	11.0	10.0	9.5	9.5	9.5
	7	8.5	4.5	9.5	9.5	9.5	12.0	12.0	10.5	10.5	10.5
	8	10.0	6.5	10.5	10.5	10.5	12.5	14.0	11.5	11.5	11.5
	9	11.0	9.5	--	12.0	12.0	13.5	16.5	--	12.5	12.5
	10	12.5	13.0	--	--	13.5	14.0	19.5	--	13.5	13.5
"WATER TABLE"	< 6	11.5	4.5	11.5	11.5	11.5	16.0	12.0	13.0	13.0	13.0
	7	13.0	7.0	13.0	13.0	13.0	17.0	14.5	14.5	14.5	14.5
	8	15.0	10.0	--	15.0	15.0	18.0	17.0	--	15.5	15.5
	9	17.0	14.0	--	17.0	17.0	19.0	20.0	--	17.0	17.0
	10	18.5	19.5	--	--	18.5	20.0	23.5	--	--	18.5
	11	20.5	26.0	--	--	--	21.0	28.0	--	--	20.0



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STANDARD TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC

ORIGINAL BY: SOILS & FOUNDATIONS DATE: 10-2001
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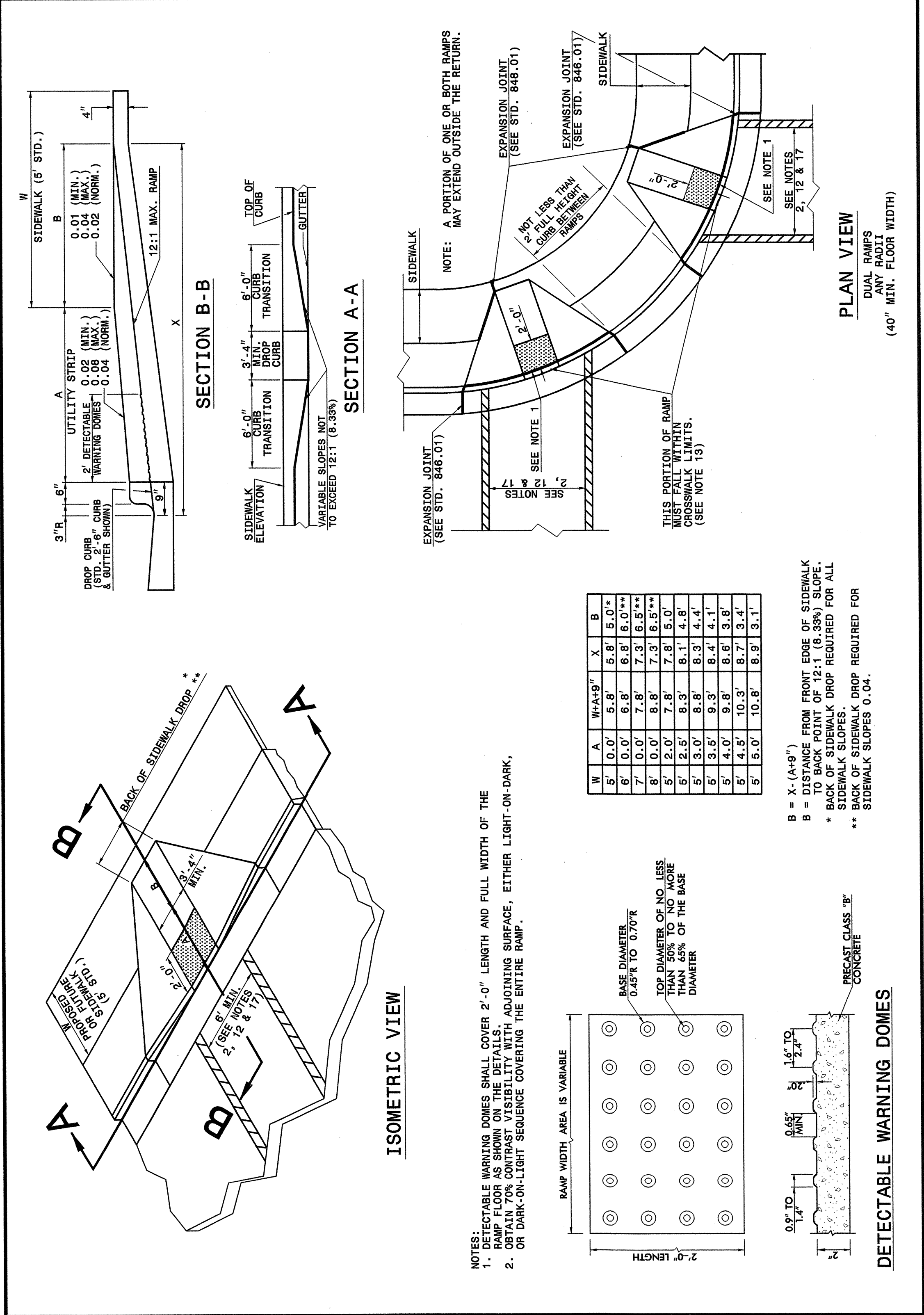
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP CURB CUT

SHEET 1 OF 4 848D05



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

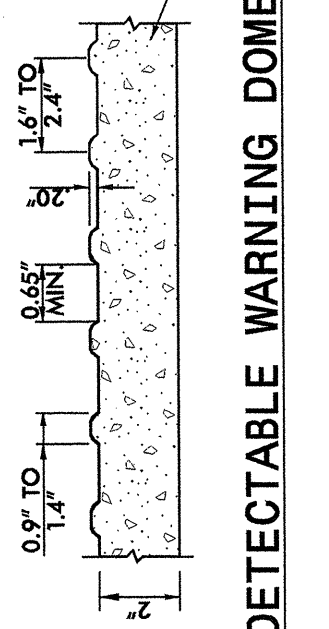
ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP CURB CUT

SHEET 1 OF 4 848D05

NOTES:
 1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. ON DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0"
6'	0.0'	6.8'	6.8'	6.0"
7'	0.0'	7.8'	7.3'	6.5"
8'	0.0'	8.8'	7.3'	6.5"
5'	2.0'	7.8'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

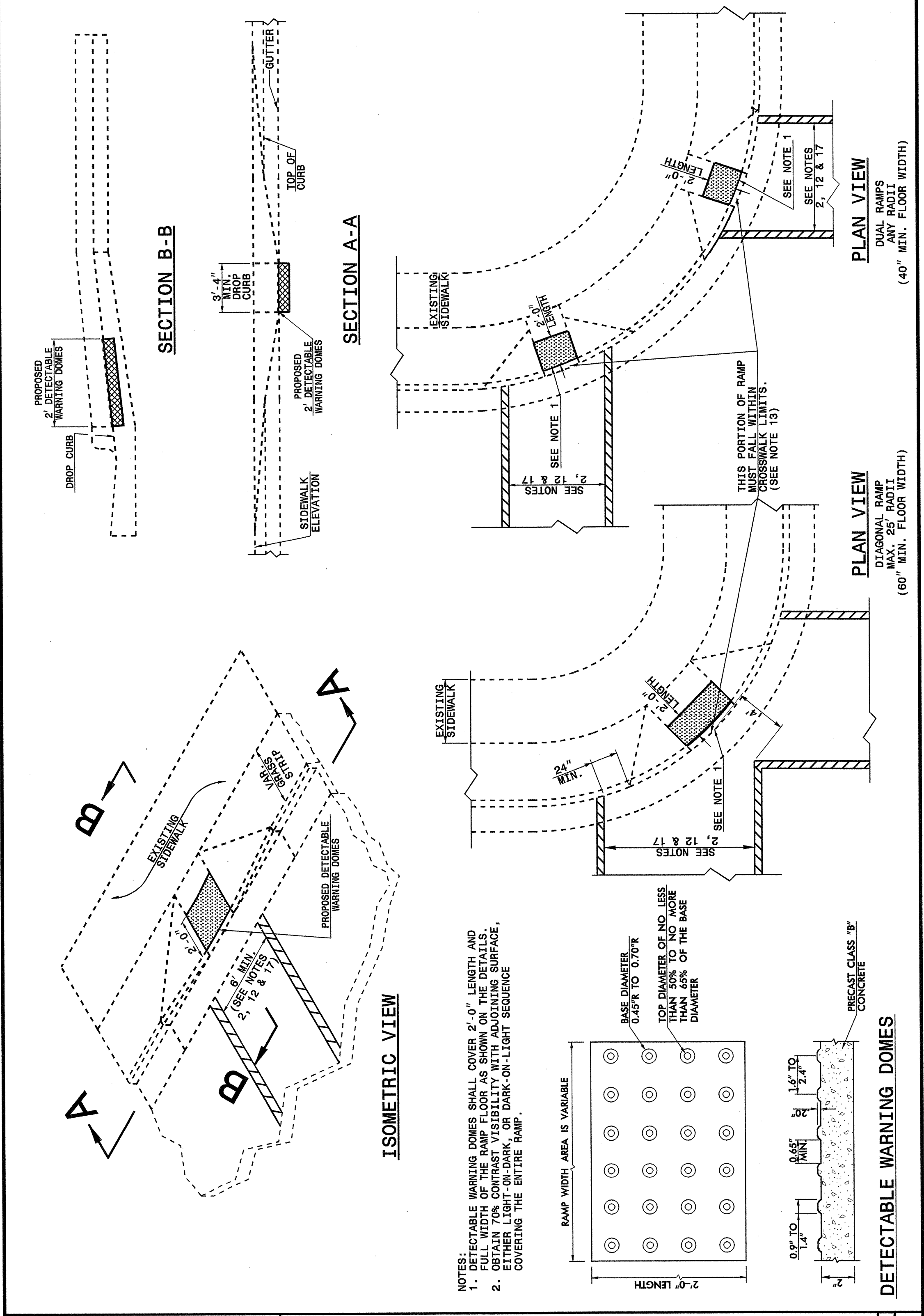
B = X - (A+9")
 B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
 * BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
 ** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING WHEELCHAIR RAMP CURB CUT

SHEET 2 OF 4 848D05



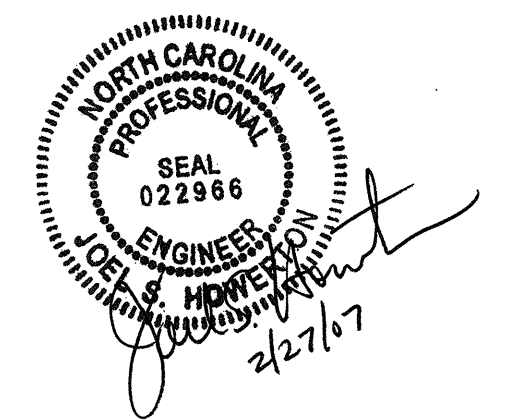
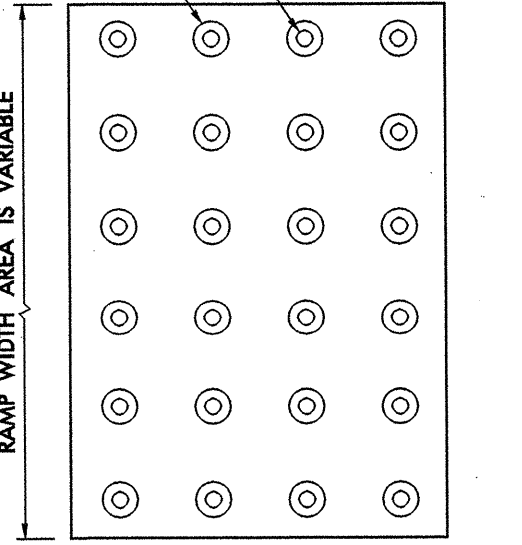
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING WHEELCHAIR RAMP CURB CUT

SHEET 2 OF 4 848D05

NOTES:
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8'	0.0'	8.8'	7.3'	6.5"
5'	2.0'	7.8'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'



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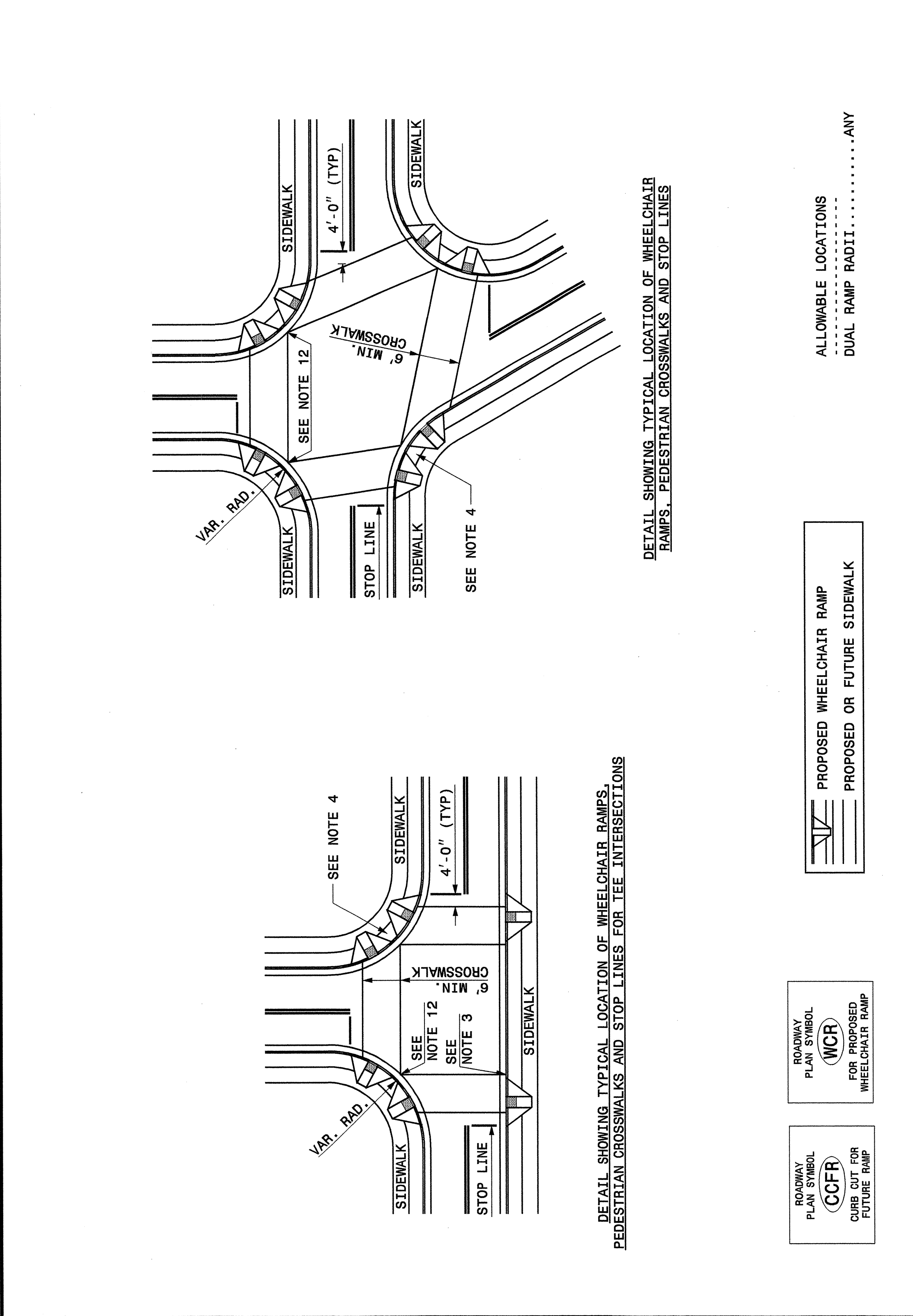
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP CURB CUT

SHEET 3 OF 4 **848D05**



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP CURB CUT

SHEET 3 OF 4 **848D05**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP CURB CUT

SHEET 4 OF 4 **848D05**

- NOTES:
- CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.
 - CROSSWALK WIDTHS AND CONFIGURATION VARY BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
 - NORTH CAROLINA GENERAL STATUTE 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW.
 - IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE.
 - THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES. COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNED TO COMPLY WITH THE CURRENT ADA STANDARDS.
 - PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
 - PAY FOR ALL VARIABLE DEPTH CONCRETE USED FOR CONSTRUCTION OF WHEELCHAIR RAMPS AS CONCRETE WHEELCHAIR RAMPS. (SQ. YDS.)
 - PAY FOR ALL DEPRESSED CURBS AT WHEELCHAIR RAMPS AS THE TYPE CURB AND GUTTER USED ADJACENT TO DEPRESSED CURB. (LN. FT.)
 - SUCH PRICES AND PAYMENTS IS CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO SATISFACTORILY COMPLETE THE WORK.
 - DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
 - CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS.
 - USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
 - PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STD. DWG. 848.01.
 - PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED. (SEE NOTE 17)
 - COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
 - CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.
 - USE STOP LINES NORMALLY PERPENDICULAR TO THE LANE LINES WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
 - TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
 - PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

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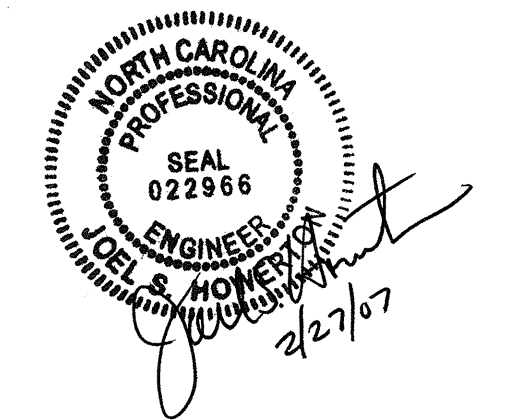
ENGLISH DETAIL DRAWING FOR WHEELCHAIR RAMP CURB CUT

SHEET 4 OF 4 **848D05**

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ORIGINAL BY: 2002 STD.848.05 DATE:
MODIFIED BY: E.E. WARD DATE: 09-06-05
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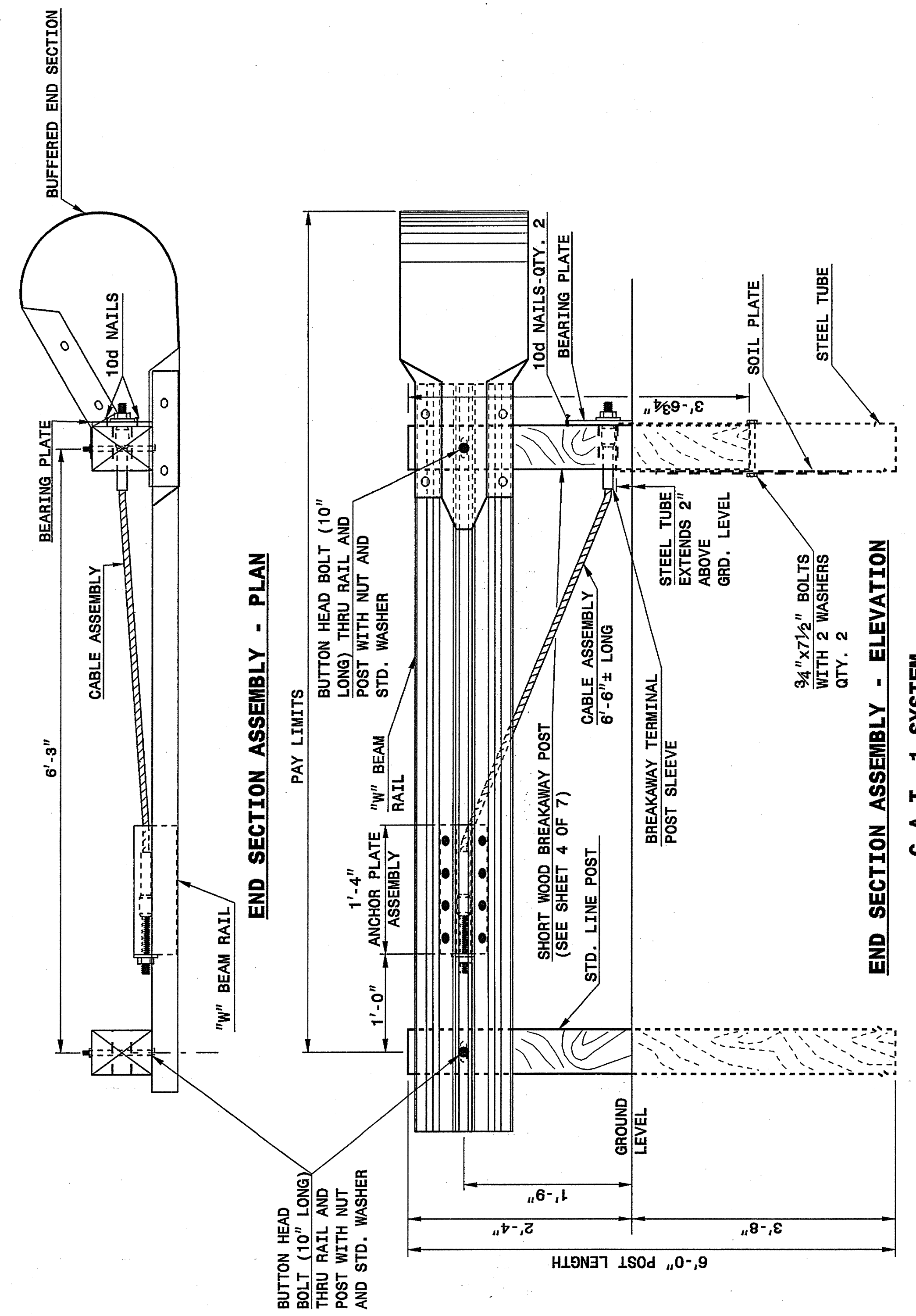


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ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 1 OF 7
862D02



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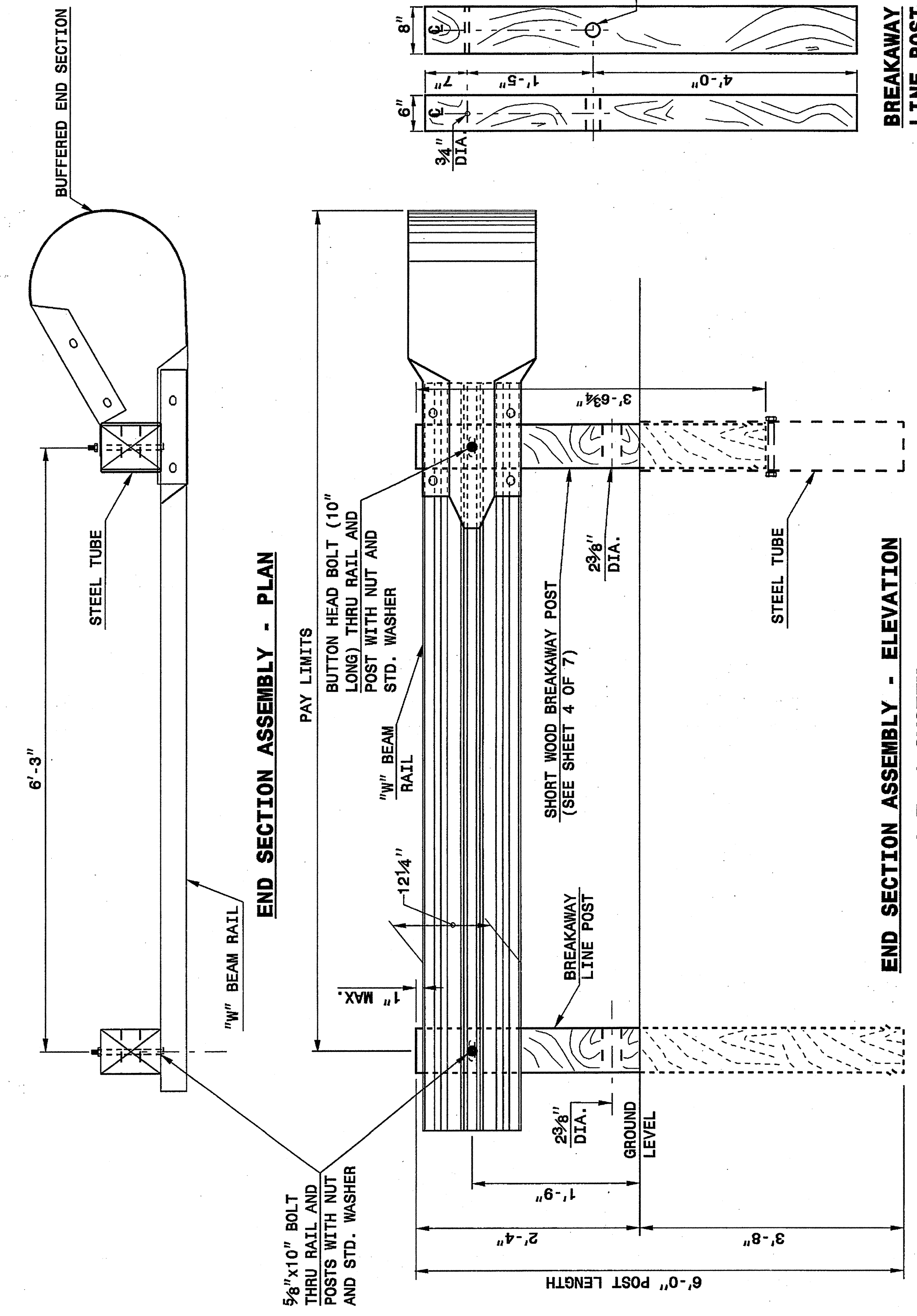
ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 1 OF 7
862D02

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ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

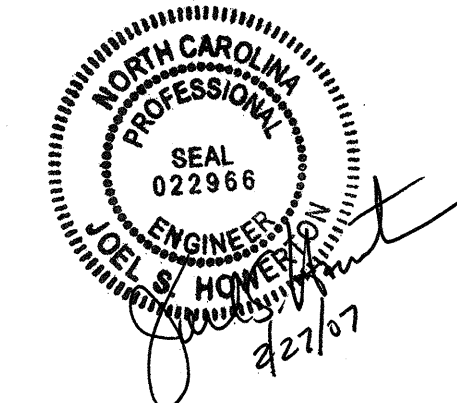
SHEET 2 OF 7
862D02



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ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 2 OF 7
862D02



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ORIGINAL BY: 2002 STD. 862.02 DATE:
 MODIFIED BY: E.E. WARD DATE: 02-09-03
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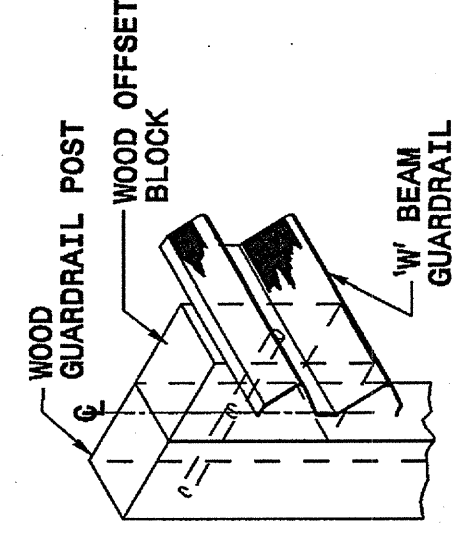
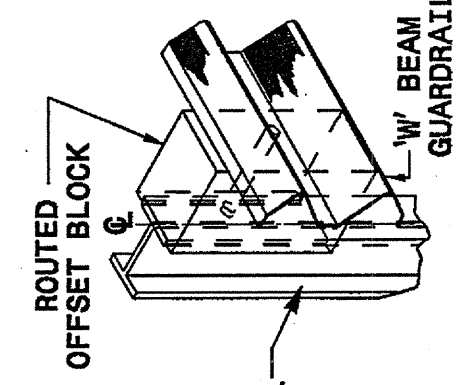
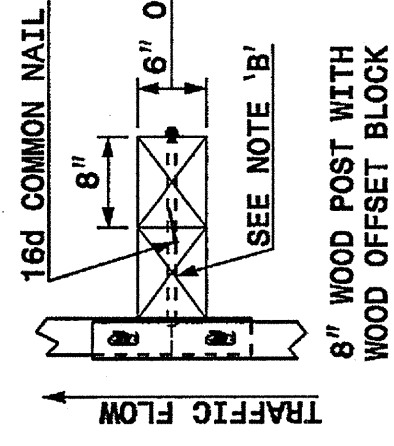
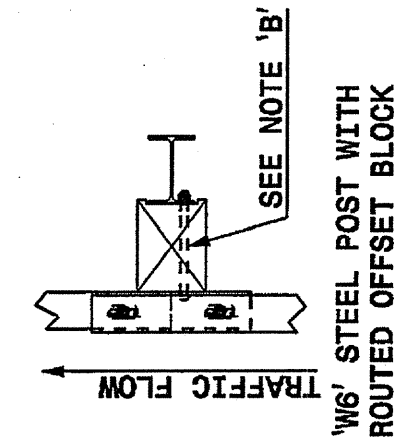
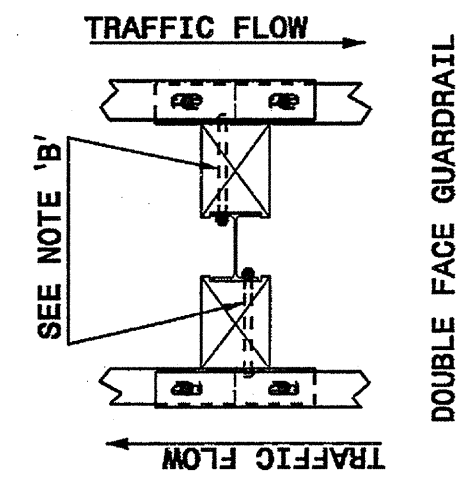
ENGLISH DETAIL DRAWING FOR
 GUARDRAIL INSTALLATION

SHEET 3 OF 7
 862D02

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

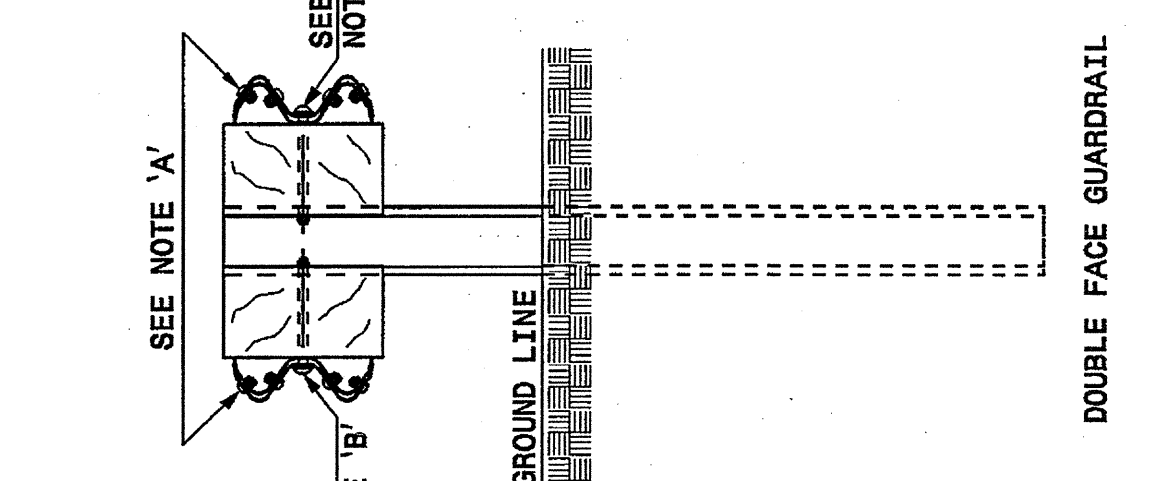
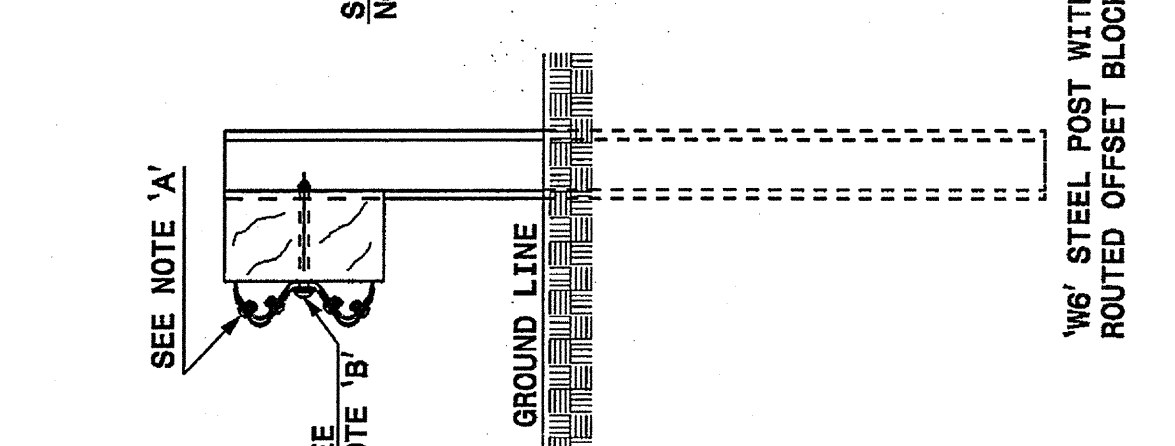
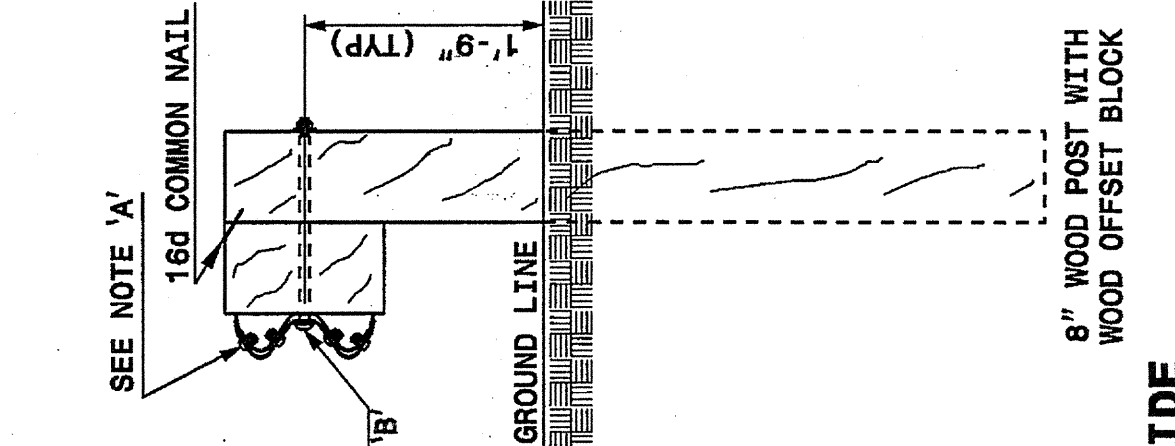
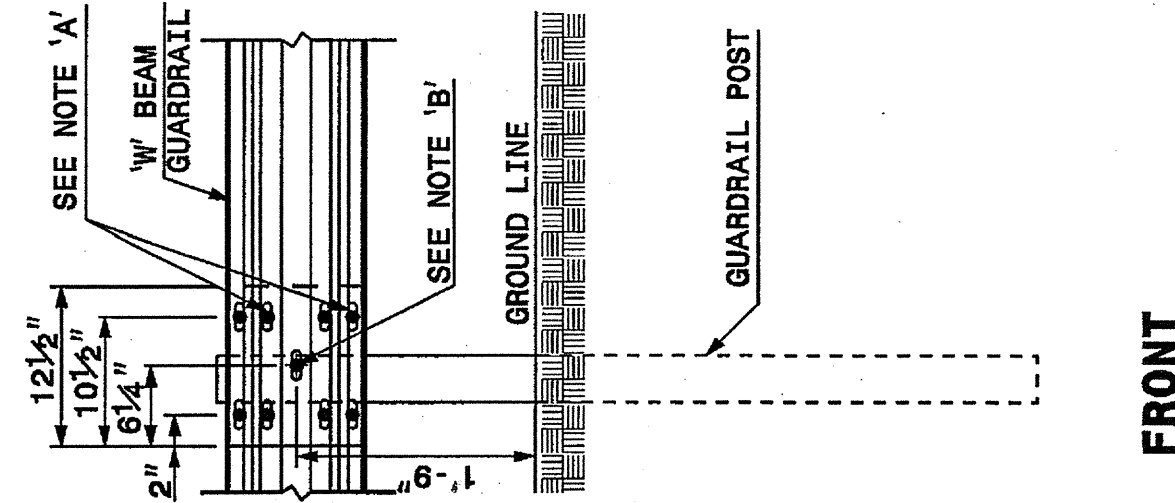
ENGLISH DETAIL DRAWING FOR
 GUARDRAIL INSTALLATION

SHEET 3 OF 7
 862D02



ISOMETRIC VIEWS

PLAN



FRONT

SIDE

NOTES:
 A - 3/8" DIA. BUTTON HEAD SPLICE BOLT 1 1/4" LONG (8 REQ. PER SPLICE JOINT).
 B - 5/8" DIA. BUTTON HEAD BOLT 7 1/2"/8" LONG WITH NUT FOR BOLTING 6"/8" ROUTED OFFSET BLOCK TO STEEL POSTS OR 5/8" DIA. BUTTON HEAD BOLT 18" LONG WITH STD. WASHER UNDER NUT FOR BOLTING TO WOOD POSTS (1 REQ. PER LOCATION)
 C - FIELD PUNCHING OF HOLES INTO GUARDRAIL SHALL BE AS DIRECTED BY THE ENGINEER.

TYPICAL GUARDRAIL AND GUARDRAIL POST ALTERNATIVES

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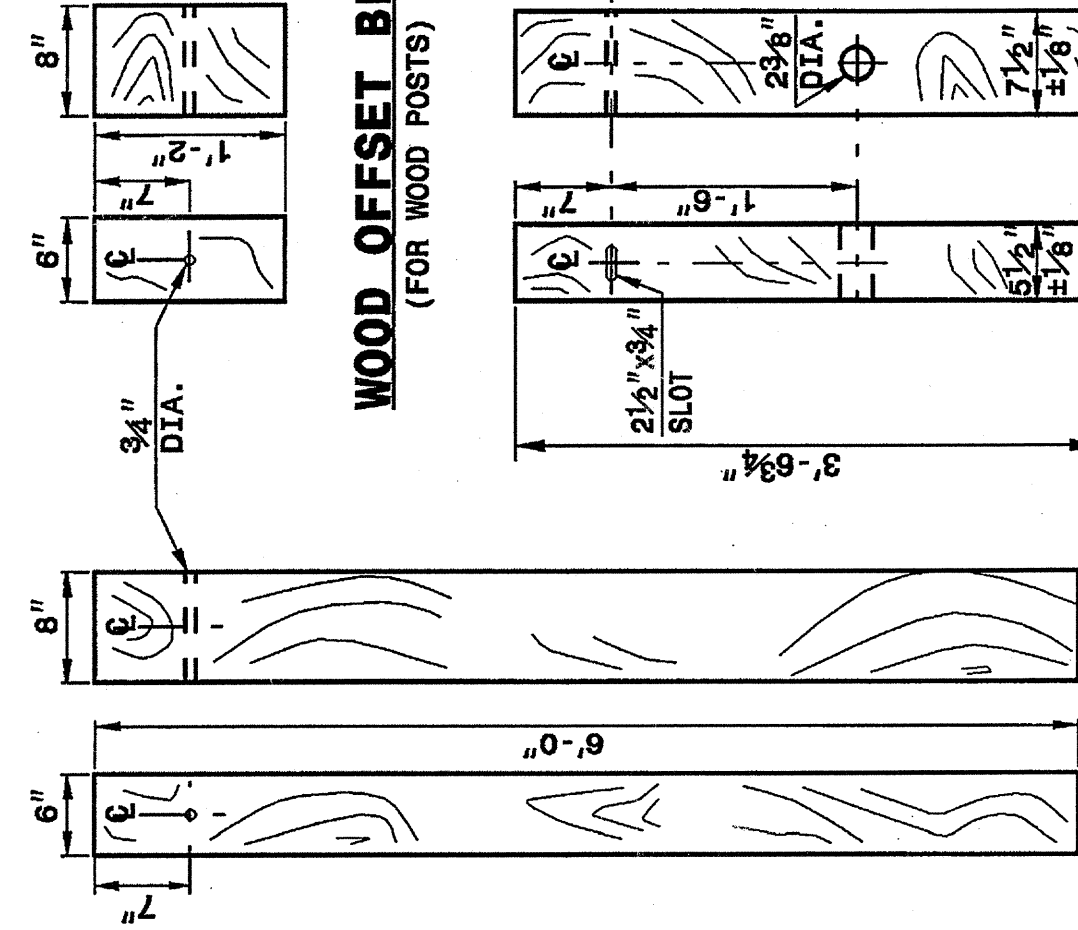
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 GUARDRAIL INSTALLATION

SHEET 4 OF 7
 862D02

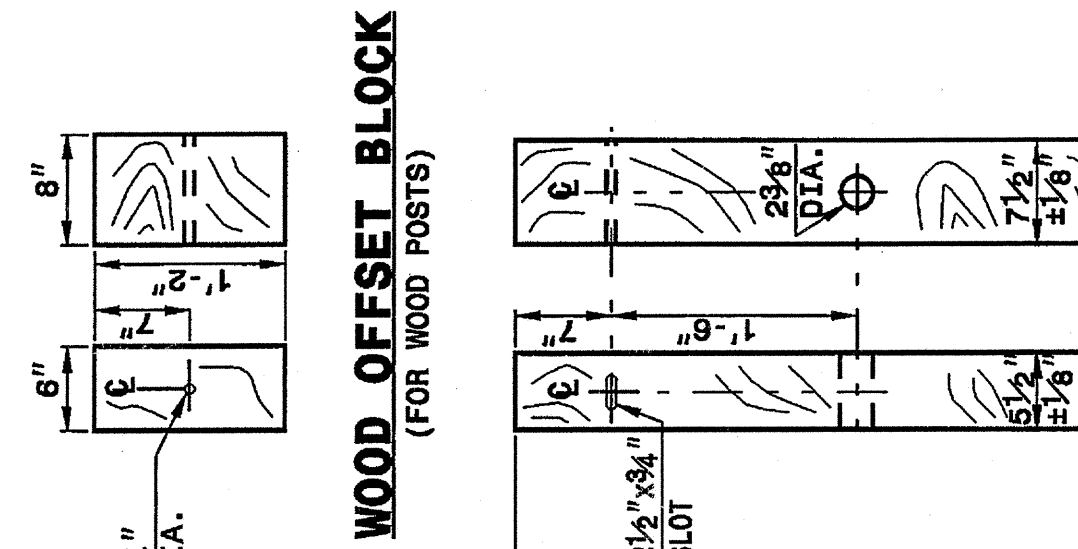
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ENGLISH DETAIL DRAWING FOR
 GUARDRAIL INSTALLATION

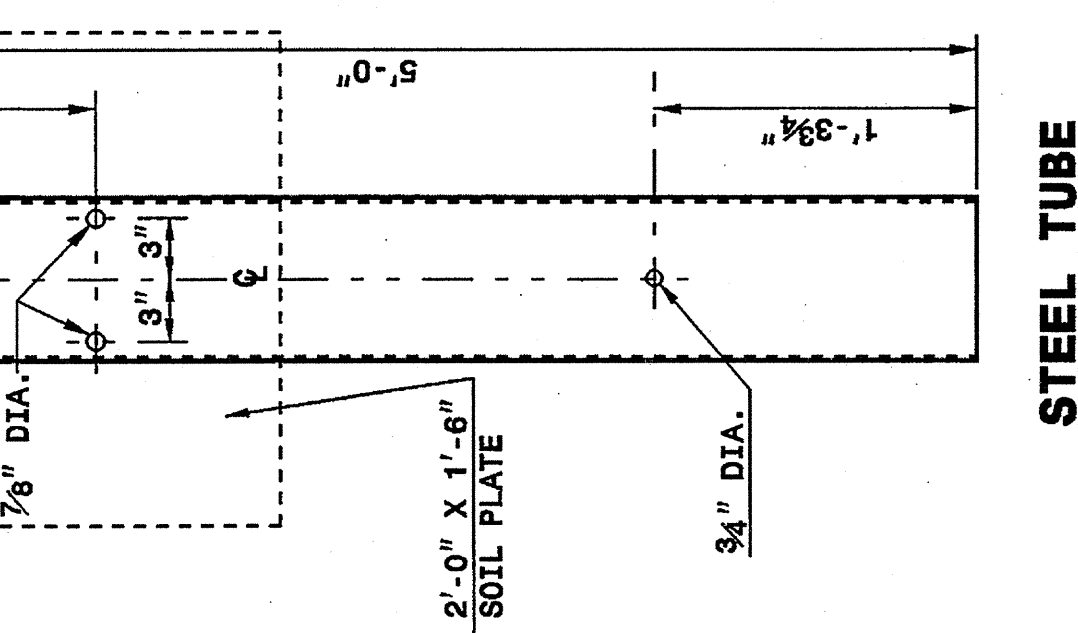
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 862D02



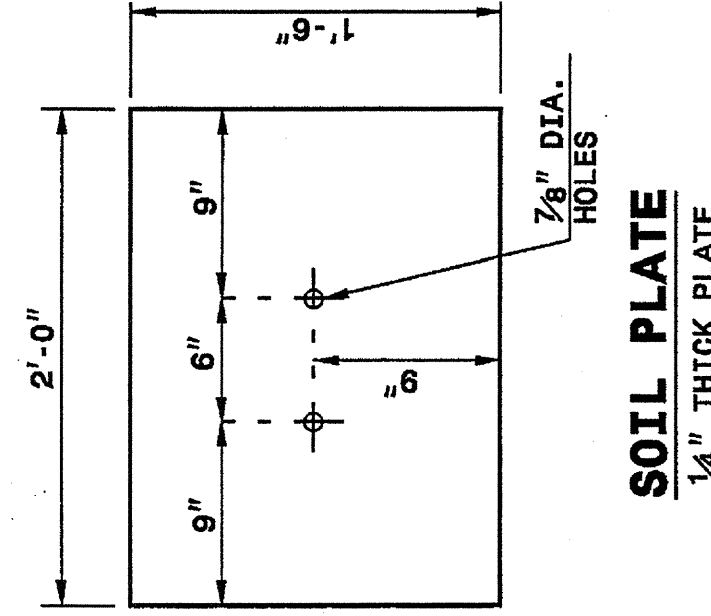
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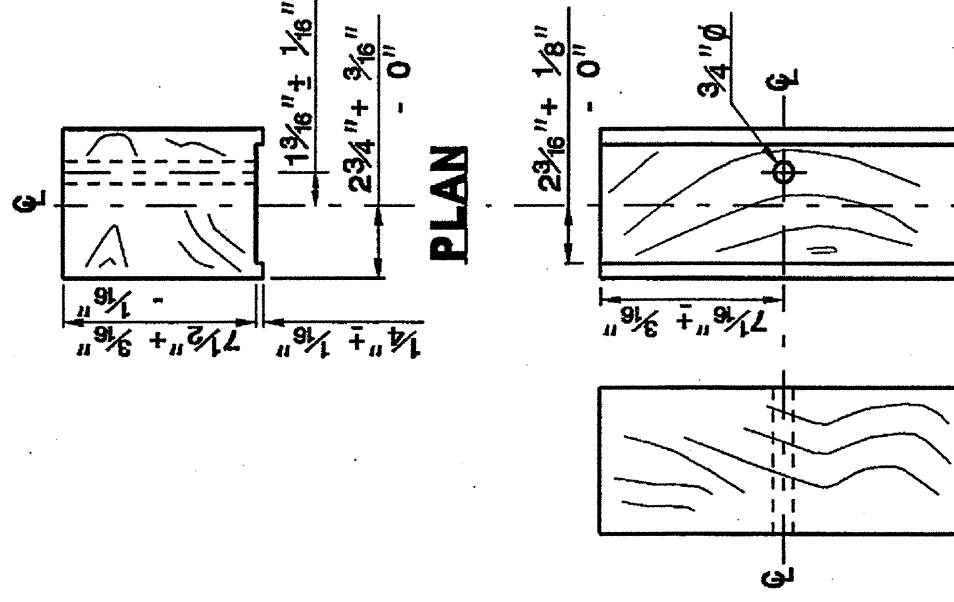
WOOD OFFSET BLOCK (FOR WOOD POSTS)



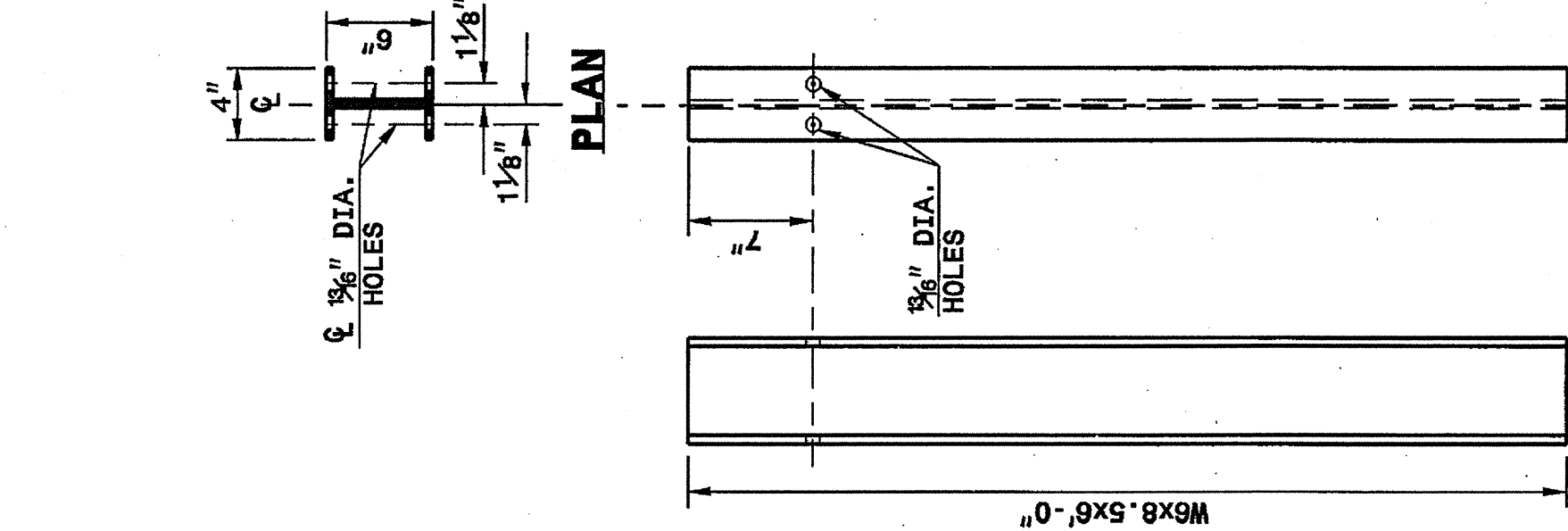
STEEL TUBE
 TS 6" X 8" X 0.1875"



SOIL PLATE
 1/4" THICK PLATE



ROUTED WOOD OFFSET BLOCK



"W6" STEEL POST

BEARING PLATE
 5/8" THICK PLATE

SYSTEM PARTS

PROJECT SERVICES UNIT
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ORIGINAL BY: 2002 STD.862.02 DATE: _____
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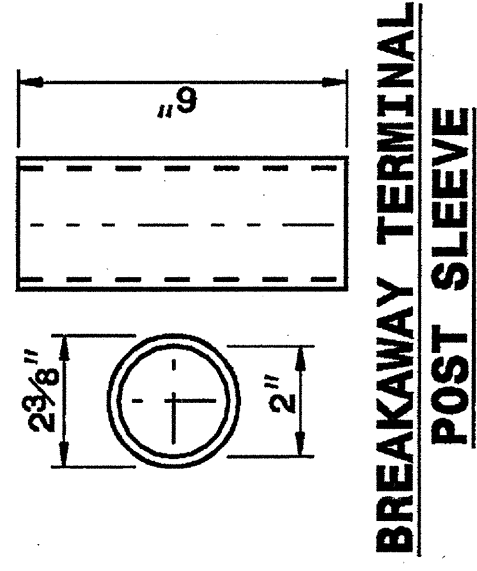


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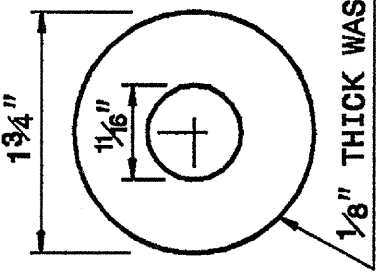
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 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 5 OF 7
862D02

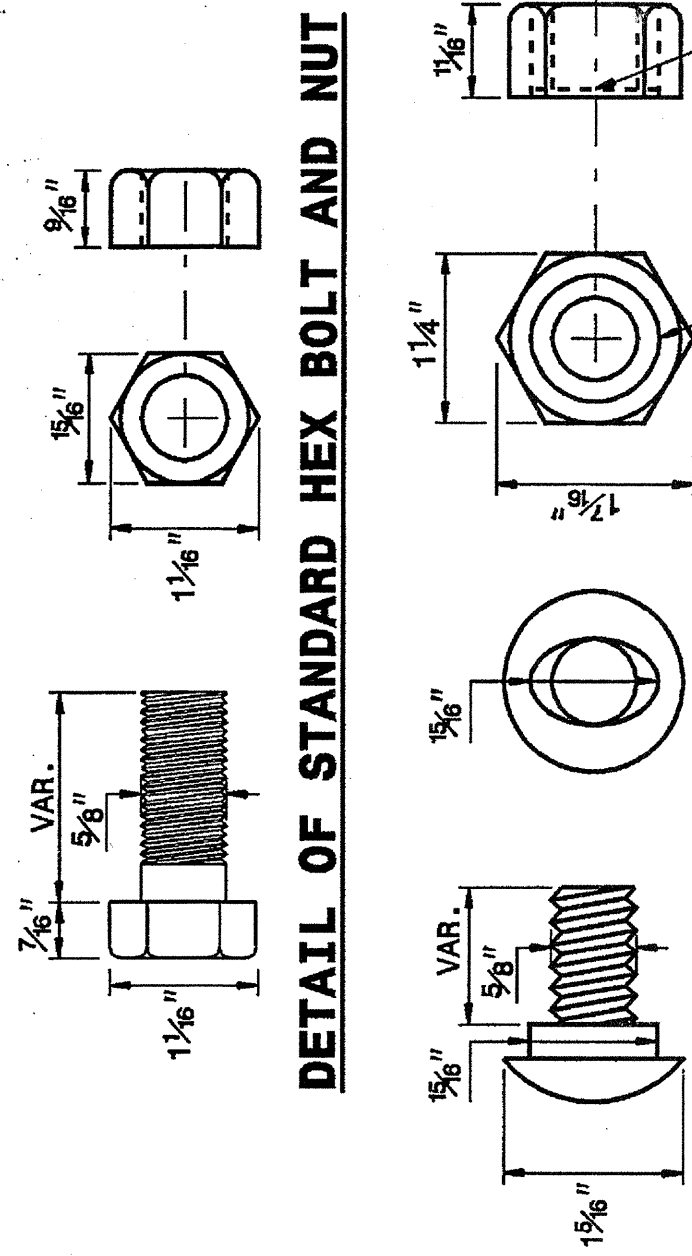


BREAKAWAY TERMINAL POST SLEEVE

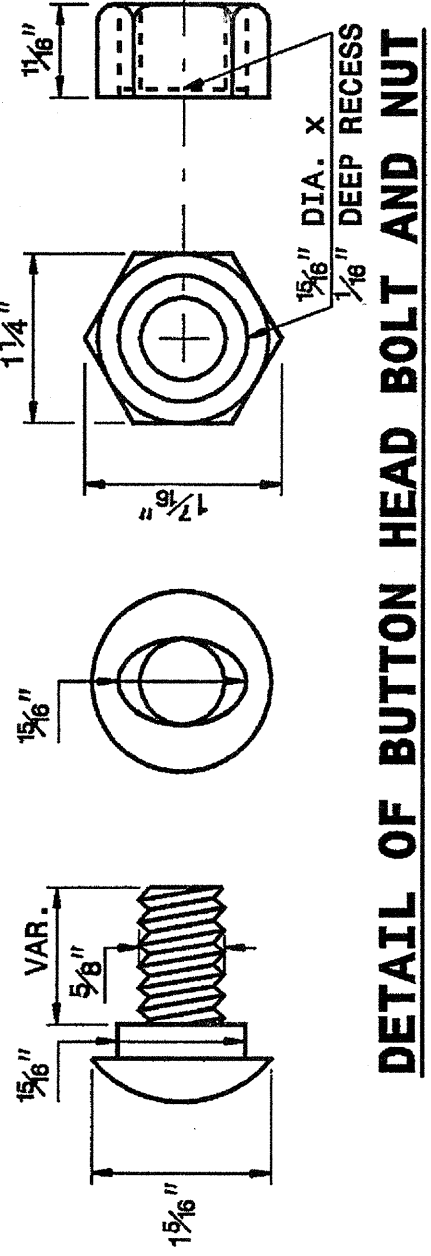


DETAIL OF STANDARD WASHER

STANDARD WASHER: TYPICAL USE UNDER NUT WITH WOOD POST

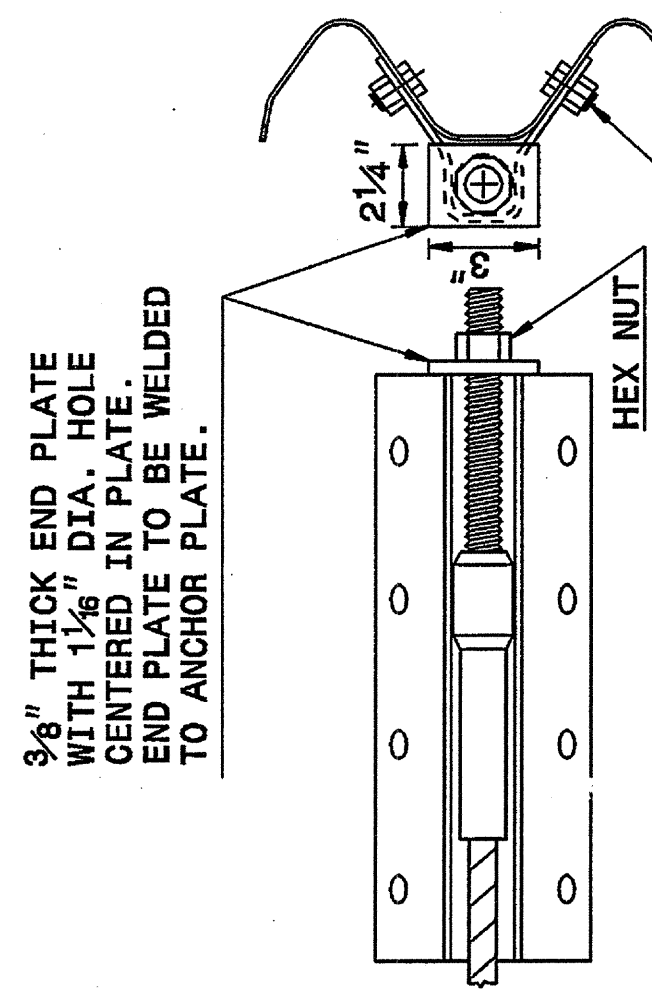


DETAIL OF STANDARD HEX BOLT AND NUT



DETAIL OF BUTTON HEAD BOLT AND NUT

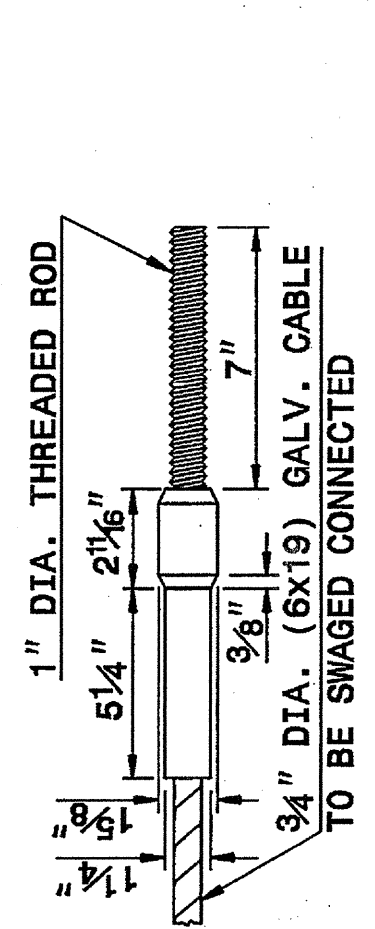
SYSTEM PARTS



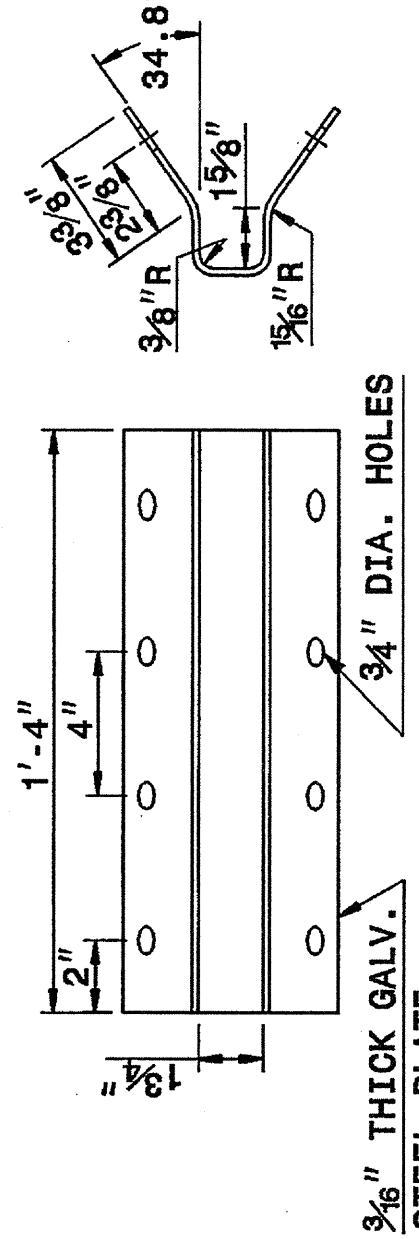
ANCHOR PLATE ASSEMBLY

3/8" THICK END PLATE WITH 1 1/8" DIA. HOLE CENTERED IN PLATE. END PLATE TO BE WELDED TO ANCHOR PLATE.

HEX NUT
 5/8" HEX HEAD BOLT WITH WASHER UNDER NUT (8 REQUIRED PER ASSEMBLY)



SWAGED CABLE



ANCHOR PLATE

3/8" THICK GALV. STEEL PLATE

SHEET 5 OF 7
862D02

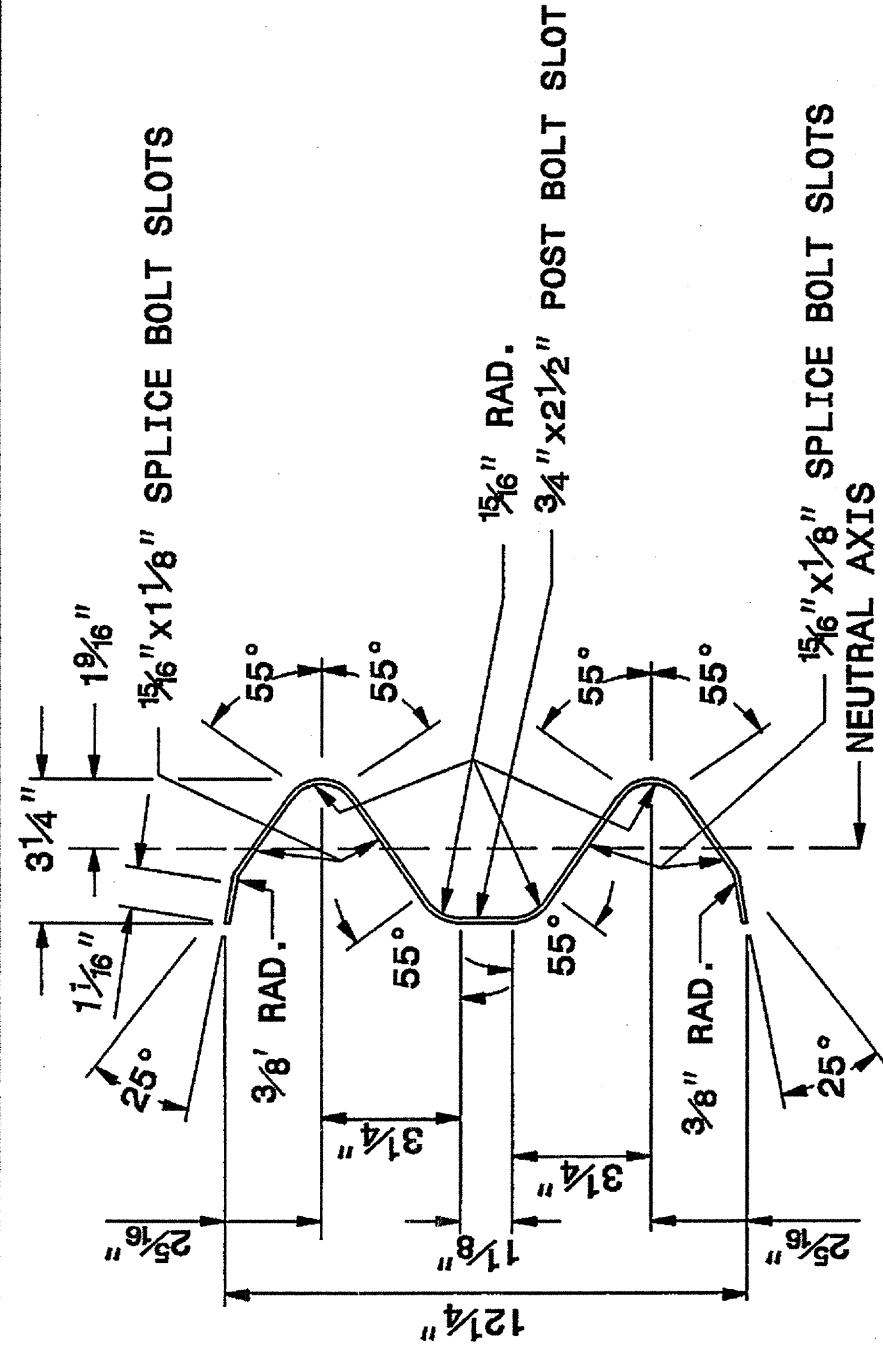
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

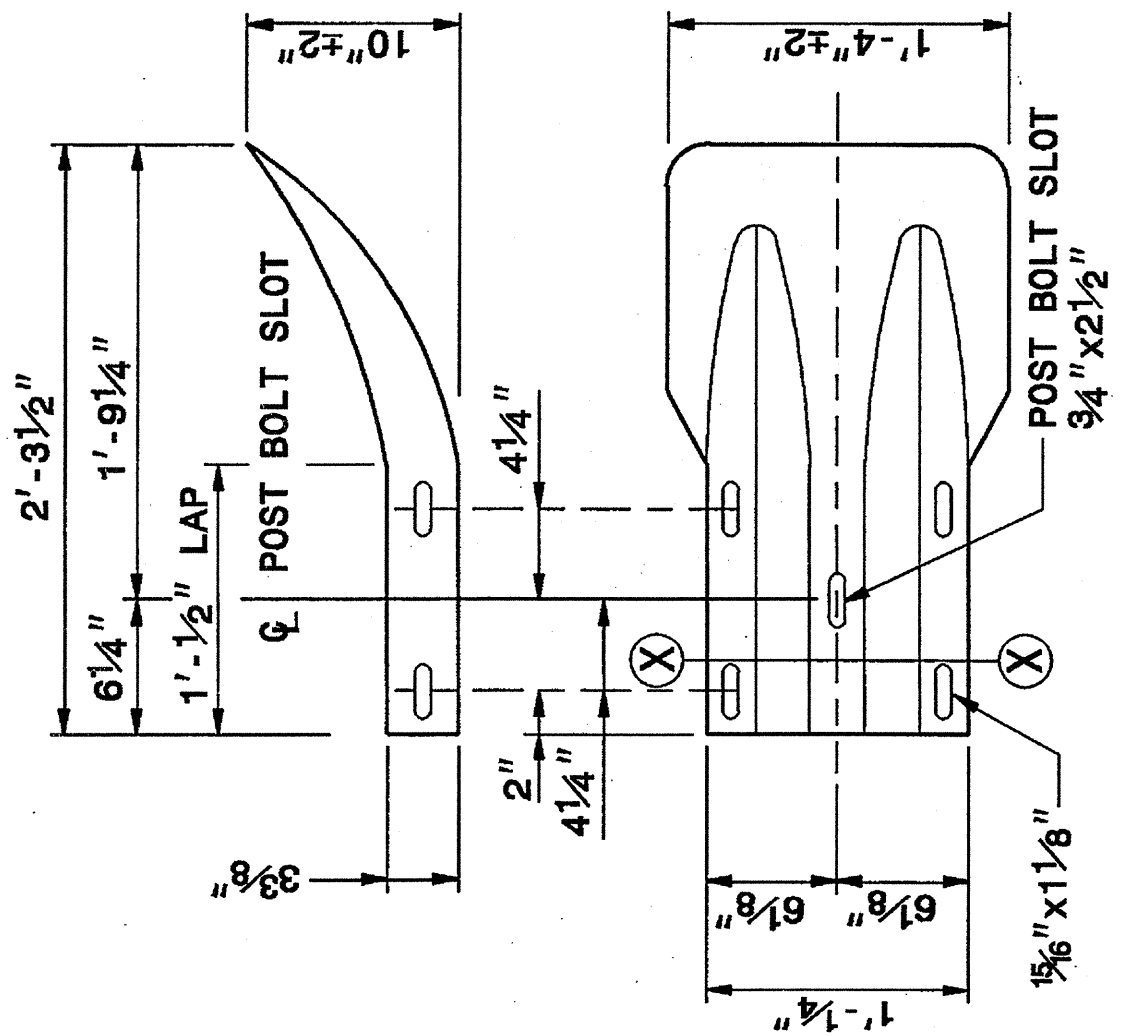
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 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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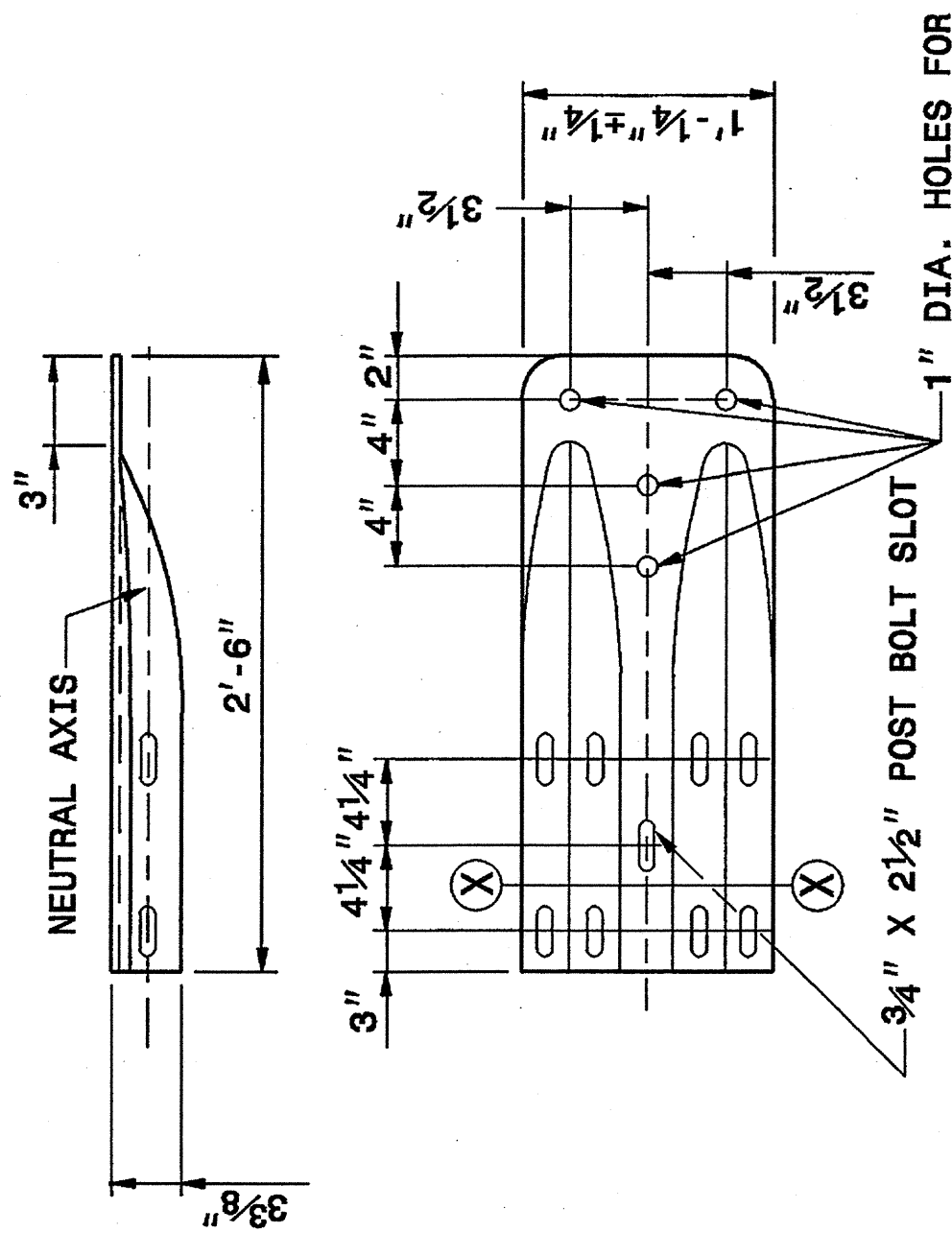
SHEET 6 OF 7
862D02



SECTION X-X



TERMINAL END SECTION



TYPICAL END SHOE

SYSTEM PARTS - GENERAL USE

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

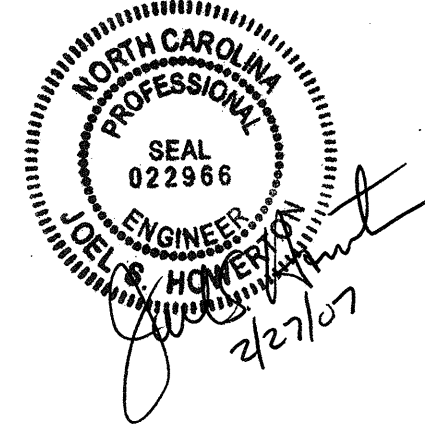
ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 7
862D02

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

SEE PLATE FOR TITLE

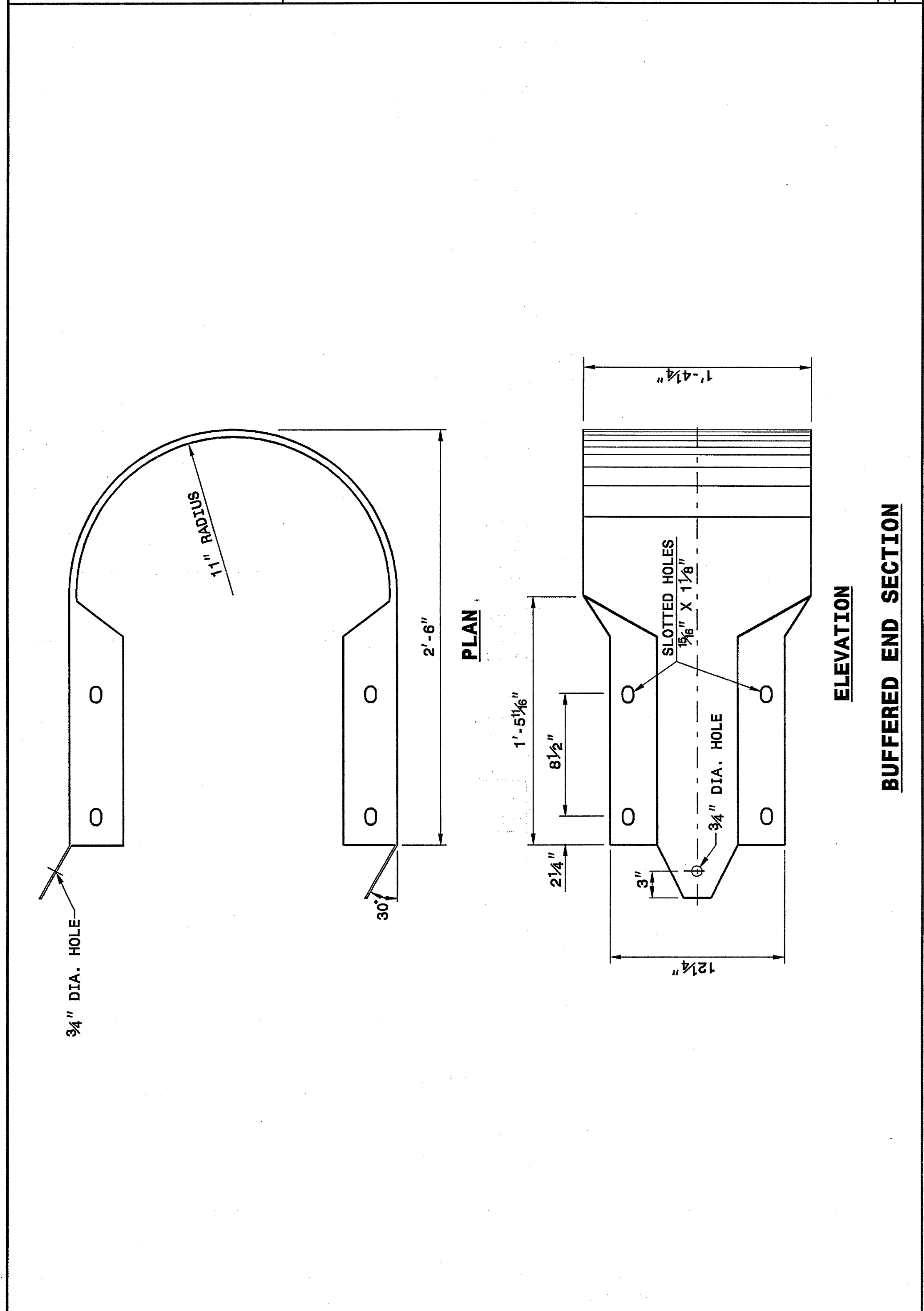
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STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 7 OF 7
862D02

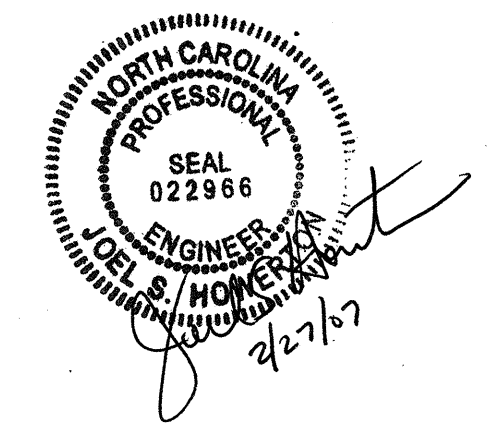


STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 7 OF 7
862D02

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

SEE PLATE FOR TITLE

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STATE OF NORTH CAROLINA
SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201822					ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	321000000-N	862	5	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
0001000000-E	200	Lump Sum		CLEARING & GRUBBING .. ACRE(S)	327000000-N	SP	10	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
0008000000-E	200	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	336000000-E	863	242	LF	REMOVE EXISTING GUARDRAIL
0022000000-E	225	5,300	CY	UNCLASSIFIED EXCAVATION	364900000-E	876	40	TON	PLAIN RIP RAP, CLASS B
0036000000-E	225	3,000	CY	UNDERCUT EXCAVATION	365600000-E	876	390	SY	FILTER FABRIC FOR DRAINAGE
0080000000-E	SP	3,630	TON	CLASS IV SUBGRADE STABILIZATION	365900000-N	SP	1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
0106000000-E	230	15,500	CY	BORROW EXCAVATION	441200000-E	SP	128	SF	WORK ZONE SIGNS (STATIONARY)
0134000000-E	240	688	CY	DRAINAGE DITCH EXCAVATION	441210000-E	SP	200	SF	WORK ZONE SIGNS (PORTABLE)
0156000000-E	250	225	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	442000000-N	1120	1	EA	CHANGEABLE MESSAGE SIGN
0163000000-E	250	45	SY	REMOVAL OF EXISTING CONCRETE PAVEMENT	443000000-N	1130	100	EA	DRUMS
0196000000-E	270	8,000	SY	FABRIC FOR SOIL STABILIZATION	445000000-N	1150	4,000	HR	FLAGGER
0199000000-E	SP	2,000	SF	TEMPORARY SHORING	446500000-N	1160	2	EA	TEMPORARY CRASH CUSHIONS
0318000000-E	300	510	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	447000000-N	1160	1	EA	RESET TEMPORARY CRASH CUSHIONS
0366000000-E	310	3,894	LF	15" RC PIPE CULVERTS, CLASS III	449000000-E	1170	250	LF	PORTABLE CONCRETE BARRIER (ANCHORED)
0372000000-E	310	742	LF	18" RC PIPE CULVERTS, CLASS III	450500000-E	1170	125	LF	RESET PORTABLE CONCRETE BARRIER (ANCHORED)
0378000000-E	310	124	LF	24" RC PIPE CULVERTS, CLASS III	465000000-N	1251	100	EA	TEMPORARY RAISED PAVEMENT MARKERS
0390000000-E	310	12	LF	36" RC PIPE CULVERTS, CLASS III	468500000-E	1205	100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
0408000000-E	310	12	LF	54" RC PIPE CULVERTS, CLASS III	468600000-E	1205	16,500	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
0995000000-E	340	1,064	LF	PIPE REMOVAL	469700000-E	1205	750	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
1011000000-N	500	Lump Sum		FINE GRADING	471000000-E	1205	60	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
1220000000-E	545	630	TON	INCIDENTAL STONE BASE	472500000-E	1205	90	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
1330000000-E	607	500	SY	INCIDENTAL MILLING	481000000-E	1205	50,000	LF	PAINT PAVEMENT MARKING LINES (4")
1489000000-E	610	3,400	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	483500000-E	1205	60	LF	PAINT PAVEMENT MARKING LINES (24")
1519000000-E	610	10,400	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	485000000-E	1205	200	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
1560000000-E	620	775	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	490000000-N	1252	400	EA	PERMANENT RAISED PAVEMENT MARKERS
1693000000-E	654	150	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	600000000-E	1605	8,800	LF	TEMPORARY SILT FENCE
2022000000-E	815	23	CY	SUBDRAIN EXCAVATION	600600000-E	1610	50	TON	STONE FOR EROSION CONTROL, CLASS A
2033000000-E	815	17	CY	SUBDRAIN FINE AGGREGATE	600900000-E	1610	50	TON	STONE FOR EROSION CONTROL, CLASS B
2044000000-E	815	100	LF	6" PERFORATED SUBDRAIN PIPE	601200000-E	1610	120	TON	SEDIMENT CONTROL STONE
2055000000-E	815	3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	601500000-E	1615	5	ACR	TEMPORARY MULCHING
2066000000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	601800000-E	1620	4,000	LB	SEED FOR TEMPORARY SEEDING
2077000000-E	815	6	LF	6" OUTLET PIPE (SUBDRAINS)	602100000-E	1620	2	TON	FERTILIZER FOR TEMPORARY SEEDING
2220000000-E	838	5	CY	REINFORCED ENDWALLS	602400000-E	1622	100	LF	TEMPORARY SLOPE DRAINS
2253000000-E	840	3.34	CY	PIPE COLLARS	602700000-N	1622	5	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
2264000000-E	840	0.31	CY	PIPE PLUGS	602900000-E	SP	500	LF	SAFETY FENCE
2286000000-N	840	52	EA	MASONRY DRAINAGE STRUCTURES	603000000-E	1630	450	CY	SILT EXCAVATION
2308000000-E	840	6	LF	MASONRY DRAINAGE STRUCTURES	603600000-E	1631	1,000	SY	MATTING FOR EROSION CONTROL
2374000000-N	840	14	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	603800000-E	SP	200	SY	PERMANENT SOIL REINFORCEMENT MAT
2374000000-N	840	17	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	604200000-E	1632	1,200	LF	1/4" HARDWARE CLOTH
2374000000-N	840	21	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	607000000-N	SP	2	EA	SPECIAL STILLING BASINS
2514000000-E	842	94	CY	CONCRETE BLOCK MASONRY RETAINING WALLS	608400000-E	1660	13	ACR	SEEDING & MULCHING
2549000000-E	846	13,600	LF	2'-6" CONCRETE CURB & GUTTER	608700000-E	1660	13	ACR	MOWING
2612000000-E	848	600	SY	6" CONCRETE DRIVEWAY	609000000-E	1661	2,000	LB	SEED FOR REPAIR SEEDING
2619000000-E	850	75	SY	4" CONCRETE PAVED DITCH	609300000-E	1661	2	TON	FERTILIZER FOR REPAIR SEEDING
2830000000-N	858	2	EA	ADJUSTMENT OF MANHOLES	609600000-E	1662	1,000	LB	SEED FOR SUPPLEMENTAL SEEDING
2845000000-N	858	2	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	611100000-E	SP	150	LF	IMPERVIOUS DIKE
3030000000-E	862	875	LF	STEEL BM GUARDRAIL	611400000-N	SP	10	HR	SPECIALIZED HAND MOWING
3150000000-N	862	10	EA	ADDITIONAL GUARDRAIL POSTS	613200000-N	SP	12	EA	GENERIC EROSION CONTROL ITEM RESPONSE FOR EROSION CONTROL

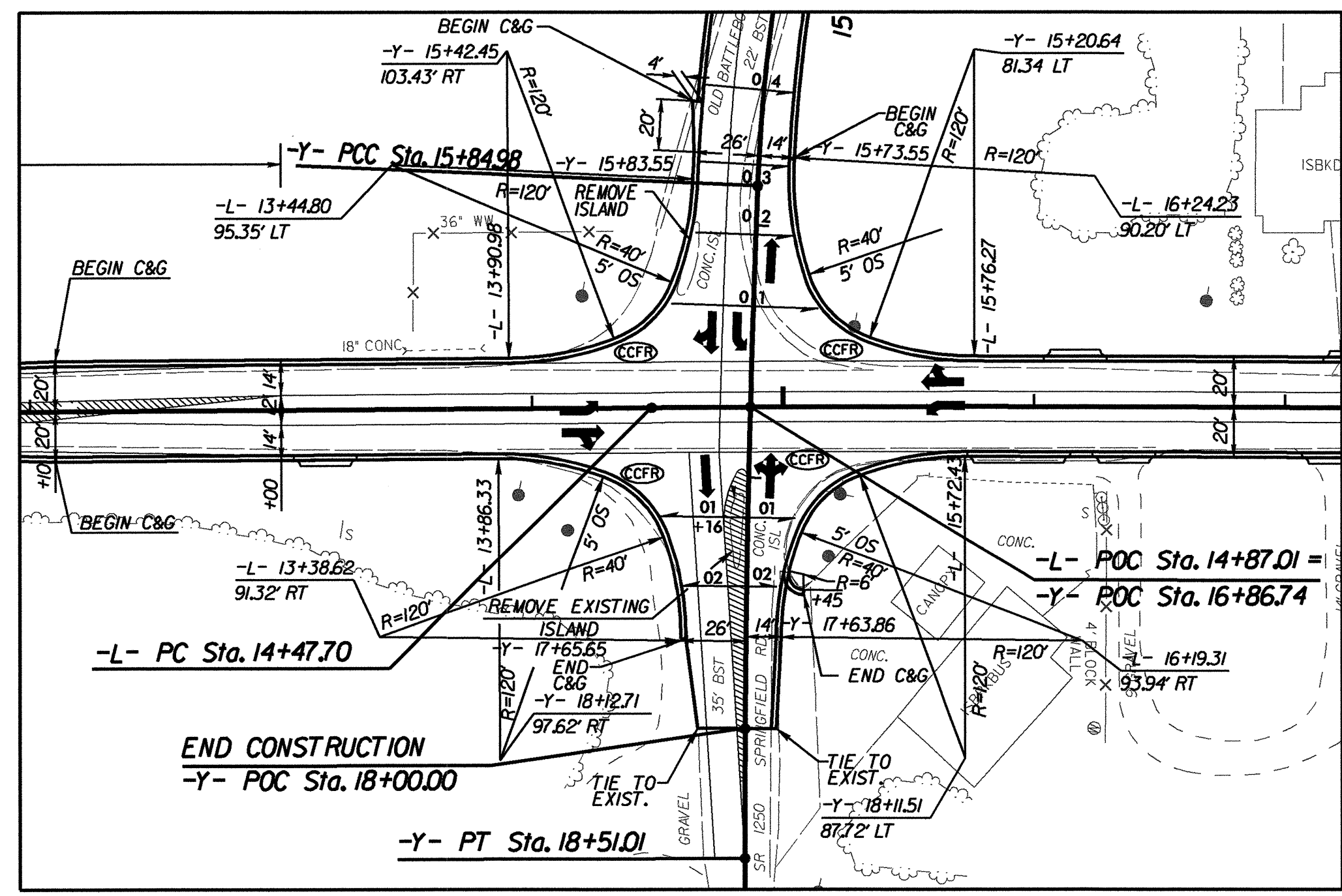
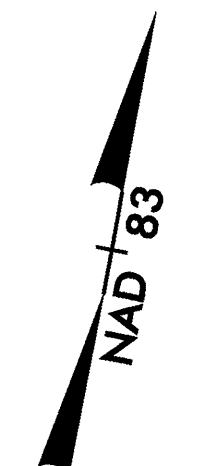
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

RIGHT OF WAY AREA DATA SHEET

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT
1	BILL & ALETHIA ORLANDO	1.67 AC				3,331 SF		34	EDGECOMBE COUNTY	21,370 SF				0 SF	
2	MRS. JAMES A. KEEL	1.83 AC	0.14 AC	1.69 AC		5,419 SF		35	JULIAN T. MAY	14,294 SF				556 SF	626 SF
3	RICHARD T. FOUNDATION TRAINING SCHOOL	410.77 AC	0.39 AC	410.38 AC		18,839 SF		36	JULIAN T. MAY	14,836 SF				1,032 SF	
4	MRS. JAMES A. KEEL	15,235 SF	785 SF			1,010 SF		37	JULIAN T. MAY	15,113 SF				1,090 SF	
5	MRS. JAMES A. KEEL	12,359 SF				460 SF		38	DOROTHY JOYNER & LORETTA WINSTEAD	35,828 SF				1,685 SF	1,043 SF
6	MRS. JAMES A. KEEL	12,564 SF				926 SF		39	GEORGE & VESSIE JOYNER	2.03 AC				5,762 SF	2,546 SF
7	MRS. JAMES A. KEEL	12,767 SF				945 SF		40	GAYNELLE & JAMES ALFORD	2.15 AC				7,153 SF	198 SF
8	MRS. JAMES A. KEEL	12,975 SF				941 SF		41	JANIS TURNER	27,302 SF				3,370 SF	
9	MRS. JAMES A. KEEL	13,212 SF				862 SF	77 SF	42	TRANSPORT LEASING CORP.	41.38 AC	785 SF		41.36 AC	13,972 SF	1,195 SF
10	DINA & JAMES LANCASTER	1.09 AC				3155 SF	206 SF	43	DOROTHINE BROWN	2.85 AC				6,105 SF	
11	BOBBY REAMES	7,126 SF	406 SF		6,720 SF	225 SF		44	BARNHILL CONTRACTING CO. INC.	111.04 AC	0.14 AC		110.90 AC	42,430 SF	7,861 SF
12	BOBBY REAMES	7,123 SF	500 SF		6,623 SF	738 SF		45	EDGECOMBE PROPERTY	23,056 SF				0 SF	
13	BOBBY REAMES	7,120 SF	500 SF		6,620 SF	828 SF		46	KENNETH & JOANN WALKER	40,987 SF				8,988 SF	
14	BOBBY REAMES	7,117 SF	500 SF		6,617 SF	892 SF		47	DONALD RAY PARKER	23,231 SF				3,065 SF	
15	BOBBY REAMES	7,114 SF	500 SF		6,614 SF	956 SF		48	CECIL PARKER & OTHERS	30.05 AC				10,420 SF	906 SF
16	PEGGY K WEATHERFORD & ETHEL E KEEL	7,111 SF	500 SF		6,611 SF	1,055 SF		49	NELLO L. TEER CO.	24.24 AC				12,190 SF	10,709 SF
17	PEGGY K WEATHERFORD & ETHEL E KEEL	7,108 SF	504 SF		6,604 SF	1,218 SF		50	NELLO L. TEER CO.	52.91 AC	0.14 AC		52.77 AC	34,353 SF	600 SF
18	PEGGY K WEATHERFORD & ETHEL E KEEL	3,957 SF	540 SF		3,417 SF	1,050 SF		51	LORETTA J. WINSTEAD	121.11 AC				18,177 SF	611 SF
19	PEGGY K WEATHERFORD & MRS JAMES A. KEEL	7,512 SF	2,347 SF		5,165 SF	2,419 SF		52	NELLO L. TEER CO.	21.32 AC				8,290 SF	
19A	PEGGY K WEATHERFORD & MRS JAMES A. KEEL	3,664 SF	3,664 SF		0			53	JIMMY & NORMA MERCER	1.75 AC				5,381 SF	456 SF
20	PEGGY K WEATHERFORD & MRS JAMES A. KEEL	7,508 SF	398 SF		7,110 SF	468 SF		54	DONALD JOYNER	35,314 SF				2,743 SF	418 SF
21	PEGGY K WEATHERFORD & MRS JAMES A. KEEL	7,507 SF				863 SF		55	WADELL CHERRY, JR. & OTHERS	32,745 SF				2,655 SF	266 SF
22	JOHNNY & CAROLYN JOHNSON	7,505 SF				931 SF		56	LESLIE BURROUGHS	32,552 SF				2,343 SF	775 SF
23	JOHNNY & CAROLYN JOHNSON	7,503 SF	131 SF		7,372 SF	868 SF		57	NELLO L. TEER CO.	10.21 AC				4,103 SF	420 SF
24	JOHNNY & CAROLYN JOHNSON	7,501 SF	1,372 SF		6,129 SF	482 SF		58	HANSON AGGREGATES CAROLINA INC.	28.62 AC				18,719 SF	979 SF
25	MATTIE PARKER BRANHAM	7,503 SF	1,694 SF		5,809 SF	579 SF		59	PHILLIPS HOLDING CO.	113.57 AC				17,508 SF	697 SF
26	KENNETH & PATRICIA WHITLEY	7,512 SF	178 SF		7,334 SF	1,312 SF		60	ROBERT & JOYCE WOOTEN	28.77 AC				43,423 SF	2,090 SF
27	KENNETH & PATRICIA WHITLEY	7,527 SF				735 SF	515 SF	61	PARSONS WOODWORKING INC.	23.27 AC				16,244 SF	589 SF
28	KENNETH & PATRICIA WHITLEY	7,548 SF				1,174 SF		62	PARSONS WOODWORKING INC.	4.58 AC	3,102 SF		4.51 AC	6,803 SF	
29	MINNIE STALLINGS HEIRS	7,575 SF				1,244 SF	413 SF	63	DOROTHY WILKINSON	44.41 AC				3,609 SF	3,631 SF
30	LUTHER & LOUISE BALKCUM	9,375 SF				1,789 SF		64	DONALD & JUDY BRAKE	3.62 AC	3,688 SF		3.54 AC	4,443 SF	274 SF
31	unknown	unknown				1,304 SF		65	CITY OF ROCKY MOUNT	198.33 AC				4,506 SF	1,723 SF
32	WALTER & MARY ANNE ONEAL	7,705 SF				1,185 SF									
33	WALTER & MARY ANNE ONEAL	19,693 SF	444 SF		19,249 SF	1,345 SF									

12805 Rev. Parcel 34, 35, 36, 41, 45, & 46

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INTERSECTION DETAIL

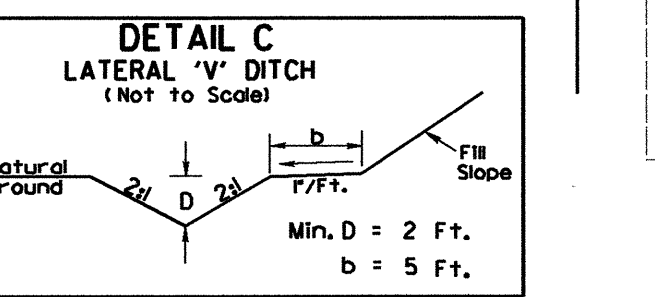
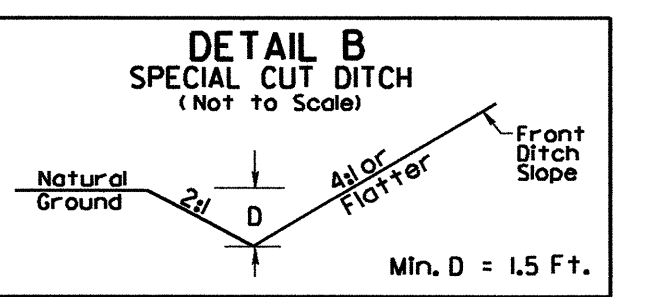
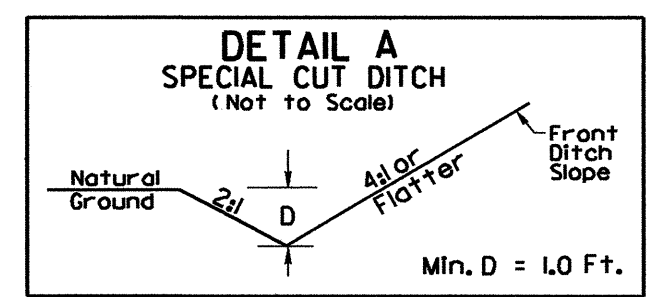
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RICHARD T. FOUNTAIN
TRAINING SC.
DB 962 PG244

BEGIN STATE PROJECT 37740
POT Sta. 10+00.00 -L-
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E 2.367,014,2110

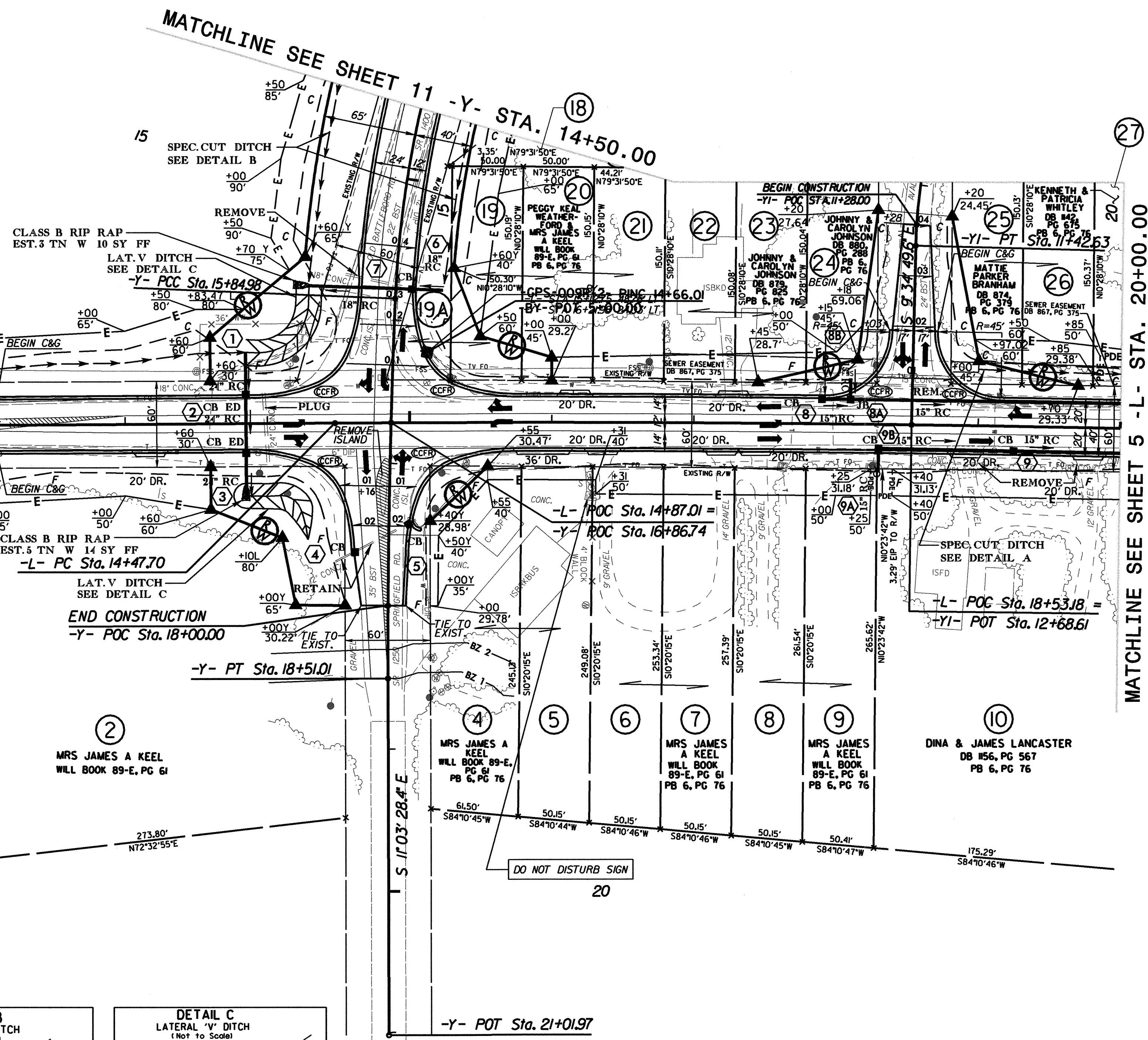
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-L-	-Y-
PI Sta 18+23.07 Δ = 1° 52' 12" (RT) D = 0' 14' 56.8" L = 750.68' T = 375.37' R = 23,000.00' S.E. = NC	PI Sta 14+98.45 Δ = 13° 38' 49" (LT) D = 7° 50' 55.5" L = 173.87' T = 87.35' R = 730.00' S.E. = 0.04 RUNOFF = 112'
-Y-	-Y1-
PI Sta 17+18.02 Δ = 2° 32' 25.5" (LT) D = 0' 57' 17.7" L = 266.03' T = 133.04' R = 6,000.00' S.E. = NC	PI Sta 11+00.27 Δ = 13° 13' 51.8" (LT) D = 15° 32' 55.9" L = 85.09' T = 42.74' R = 368.49'

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "009R-1" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 813306.57 (1011) EASTING: 236656.15 (111) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995466 THE N.C. LAMBERT GRID BEARINGS AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "009R-1" TO ± STATION ± 10+00.00 N 80° 48' 9.73" E DIST 452.8763 (11) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



-L- STA 10+00.00 TO 11+50.00 RT
-L- STA 11+00.00 TO 13+84.99 LT DDE=35.8CY
-L- STA 19+00.00 TO 20+00.00 LT
-Y- STA 14+50.00 TO 15+75.00 RT
-Y- STA 14+50.00 TO 15+75.00 LT
-L- STA 14+29.96 TO 13+84.99 LT
-L- STA 13+84.99 TO 14+28.32 RT DDE=35.8CY



MATCHLINE SEE SHEET 5 -L- STA. 20+00.00

SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 15 FOR -Y- & -Y1- PROFILE

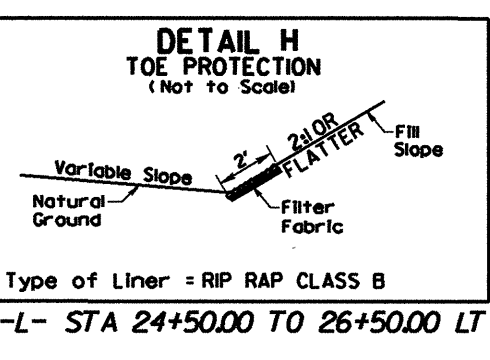
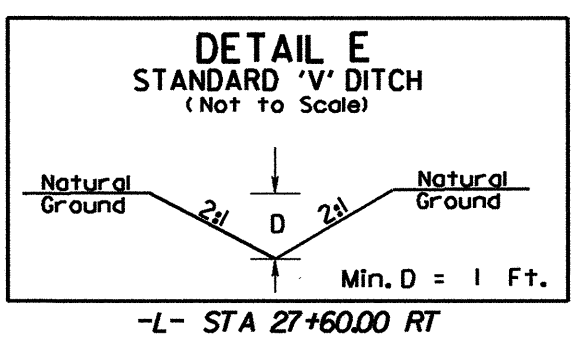
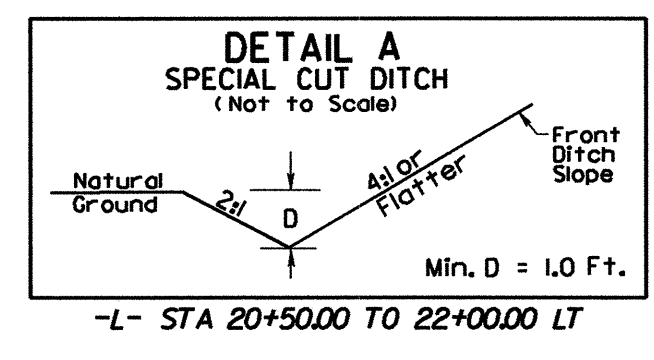
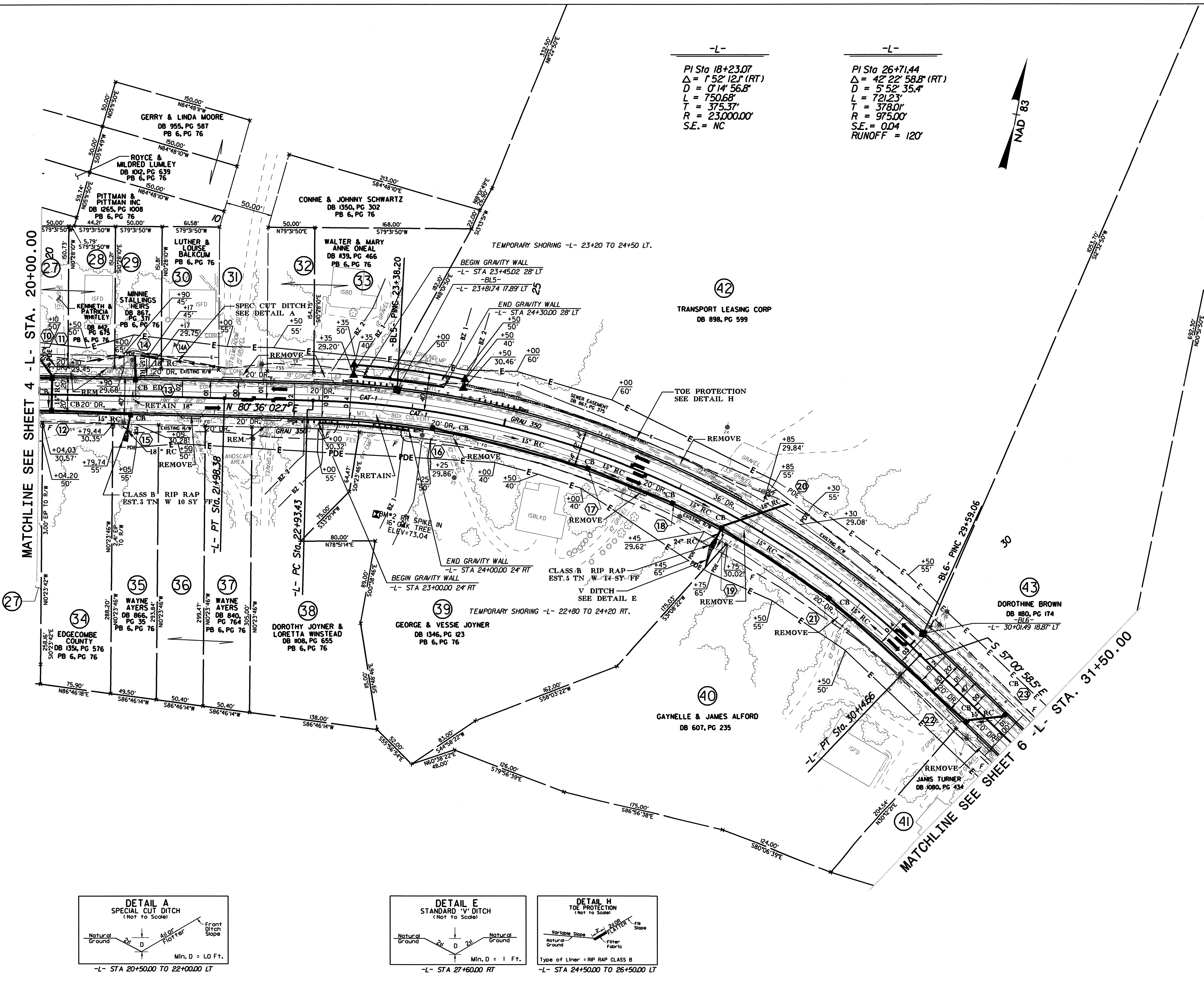
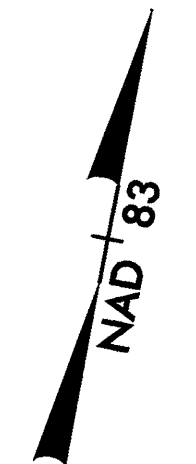
PROJECT REFERENCE NO. 37740	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PI Sta 18+23.07
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 $D = 0'14''56.8''$
 $L = 750.68'$
 $T = 375.37'$
 $R = 23,000.00'$
 S.E. = NC

-L-

PI Sta 26+71.44
 $\Delta = 42'22''58.8''$ (RT)
 $D = 5'52''35.4''$
 $L = 721.23'$
 $T = 378.01'$
 $R = 975.00'$
 S.E. = 0.04
 RUNOFF = 120'



12805 Rev. Parcel 34, 35, 36

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 2/28/2007

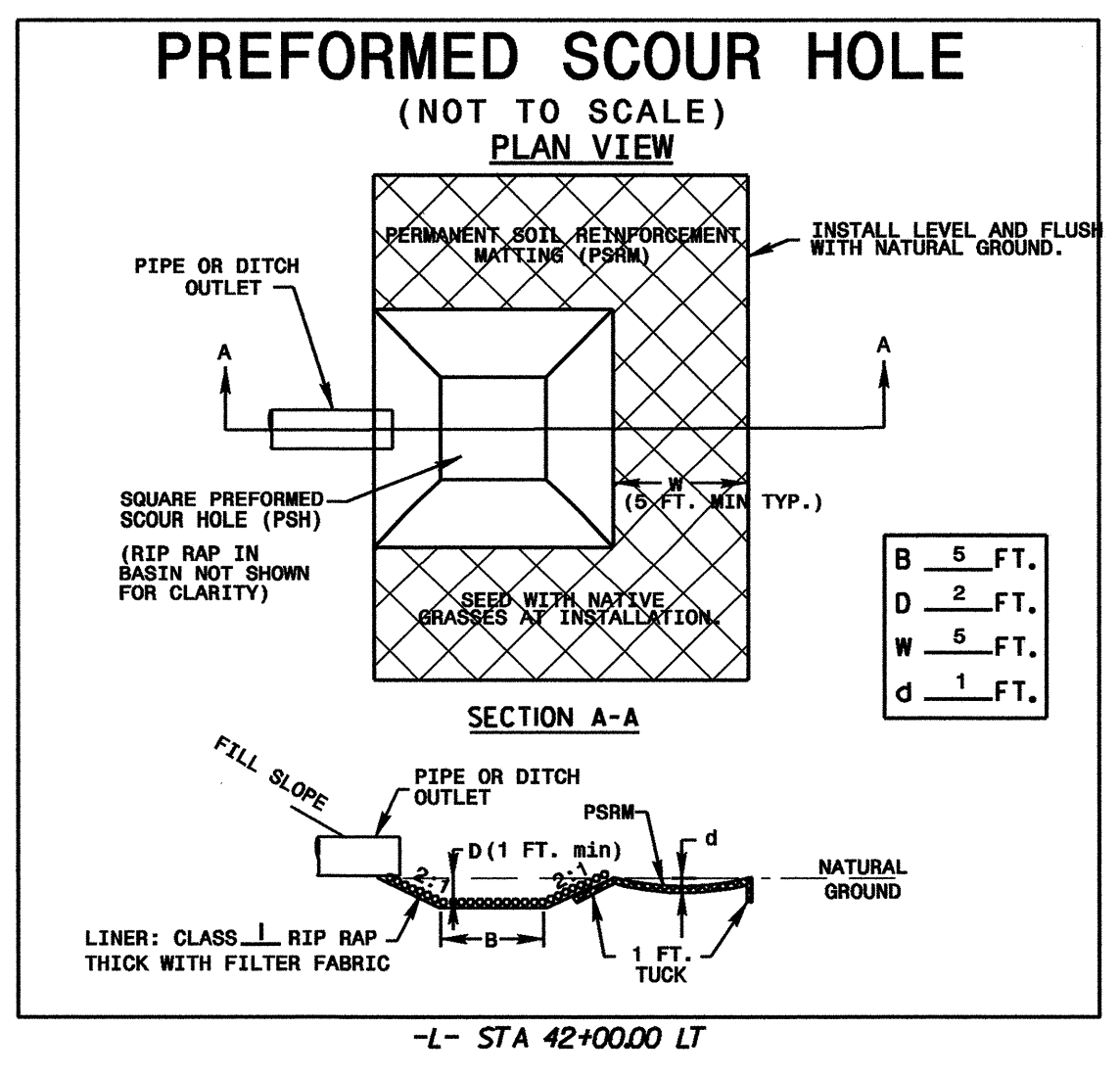
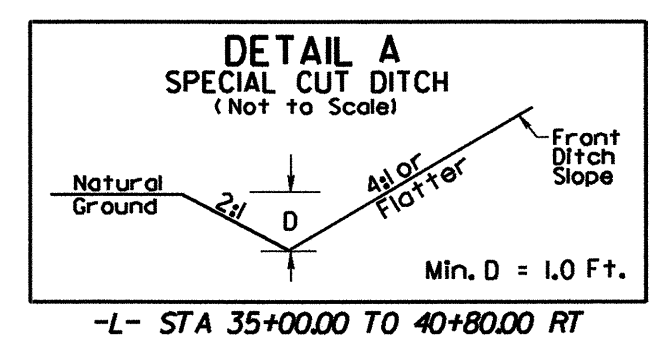
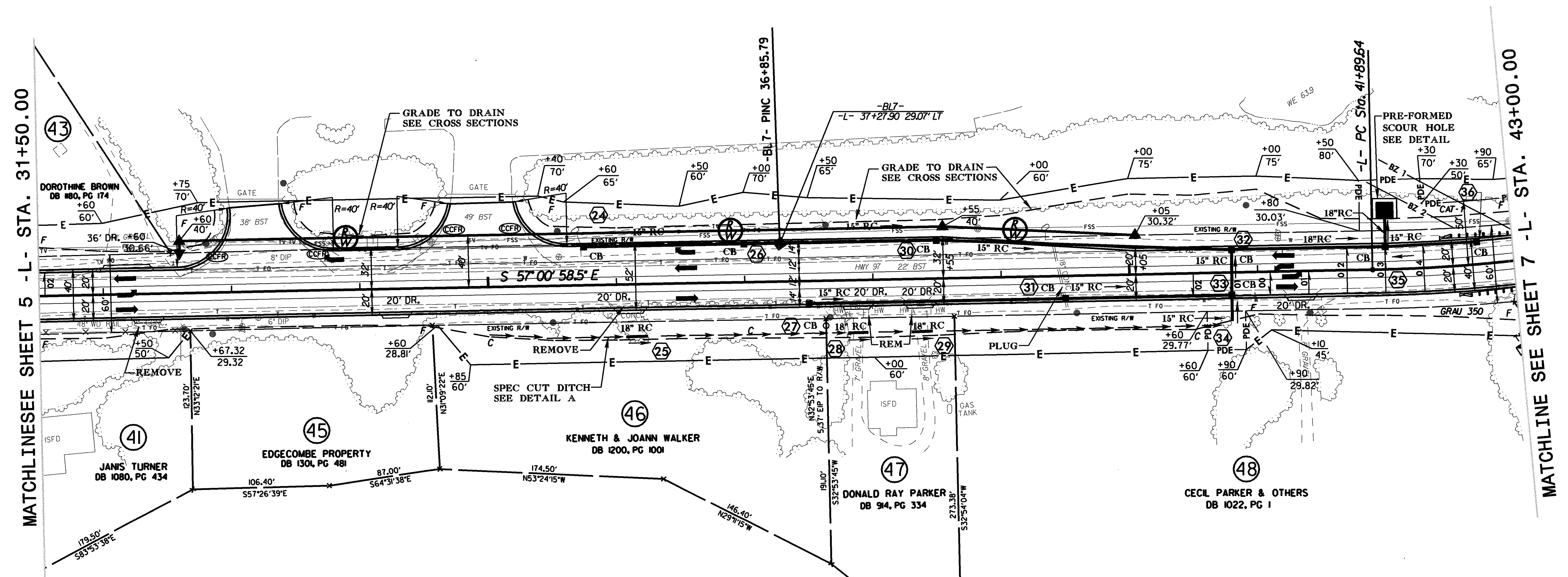
SEE SHEET 12 FOR -L- PROFILE

PROJECT REFERENCE NO. 37740		SHEET NO. 6	
RW SHEET NO. 6		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 23924 3-1-07	
PARSONS BRINCKERHOFF			

-L-

PI Sta 45+97.41
 $\Delta = 35^{\circ} 28' 16.4" (LT)$
 $D = 4' 29' 37.6"$
 $L = 789.34'$
 $T = 407.78'$
 $R = 1,275.00'$
 $S.E. = 0.04$
 $RUNOFF = 120'$

(44)
 BARNHILL CONTRACTING CO INC
 DB 889, PG 272
 PB 18, PG 41

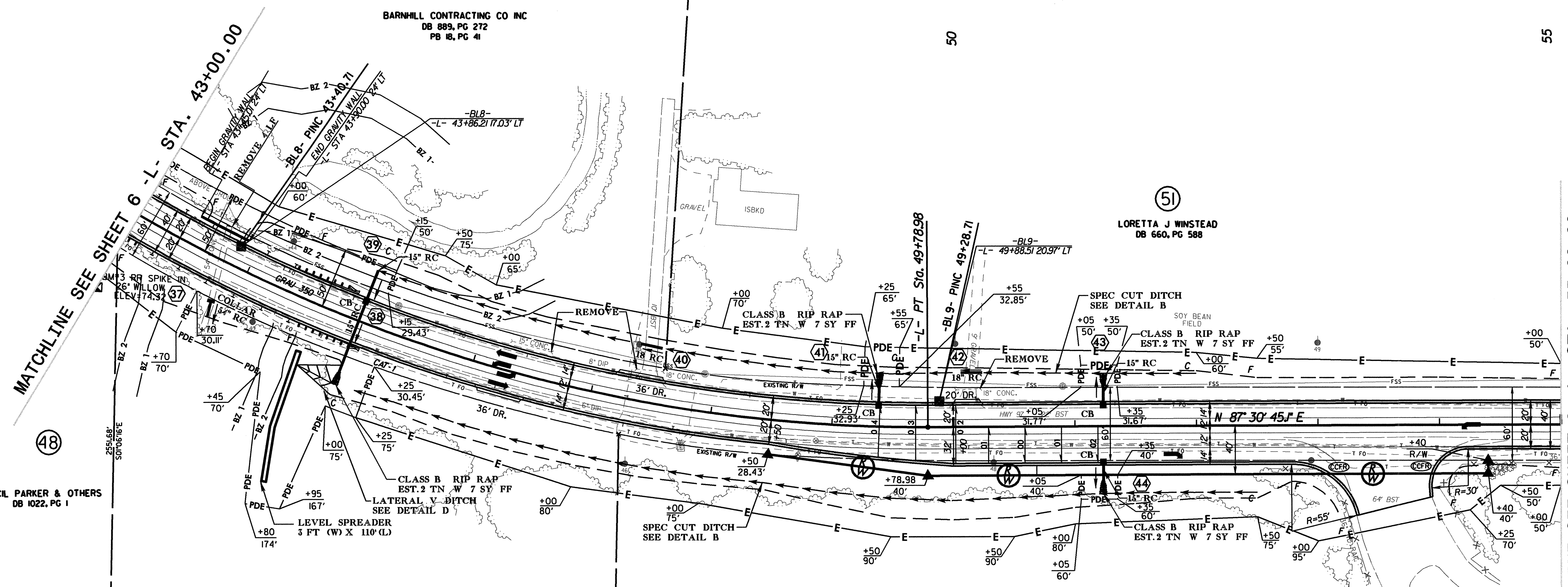


12805 Rev. Parcel 41, 45, & 46
 G:\Projects\20344\NC 97\TIP\Plan Review Changes\Roadway\Proj\nc97_rdy_psh_06.dgn
 pr*
 2/28/2007

SEE SHEET 12 & 13 FOR -L- PROFILE

-L-

PI Sta 45+97.41
 $\Delta = 35^\circ 28' 16.4" (LT)$
 $D = 4' 29' 37.6"$
 $L = 789.34'$
 $T = 407.78'$
 $R = 1275.00'$
 $S.E. = 0.04$
 $RUNOFF = 120'$



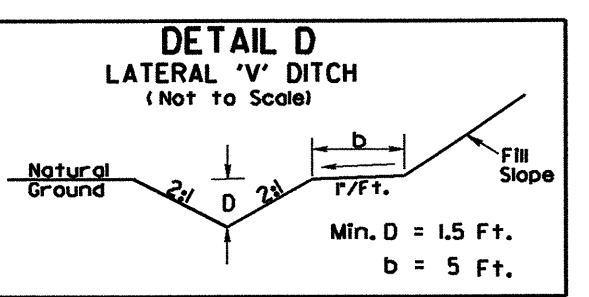
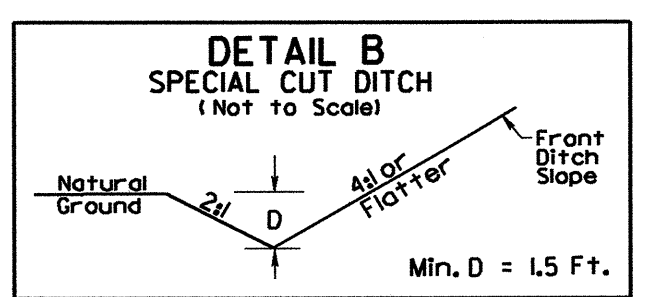
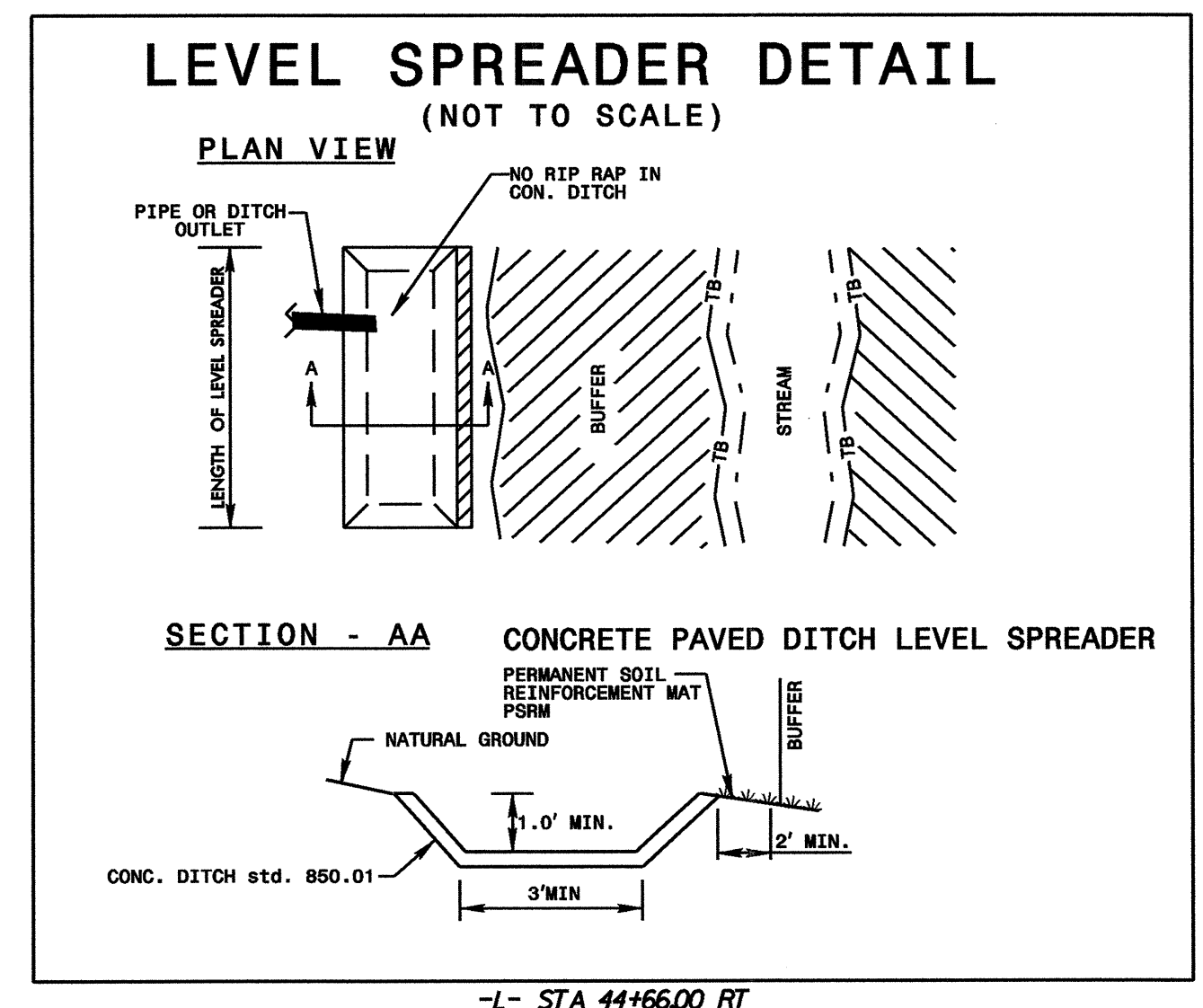
CECEL PARKER & OTHERS
DB 1022, PG 1

BARNHILL CONTRACTING CO INC
DB 889, PG 272
PB 18, PG 41

LORETTA J WINSTEAD
DB 660, PG 588

NELLO L TEER CO
DB 827, PG 526

NELLO L TEER CO
DB 827, PG 537



SEE SHEET 13 FOR -L- PROFILE

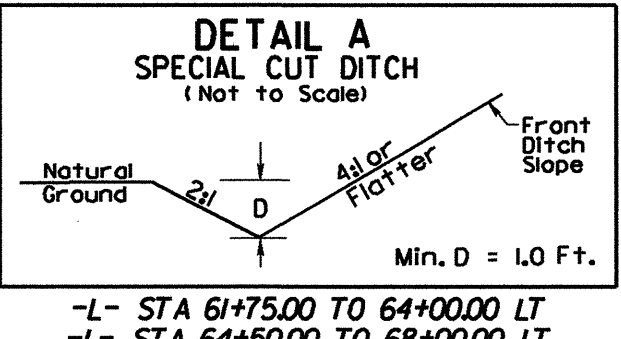
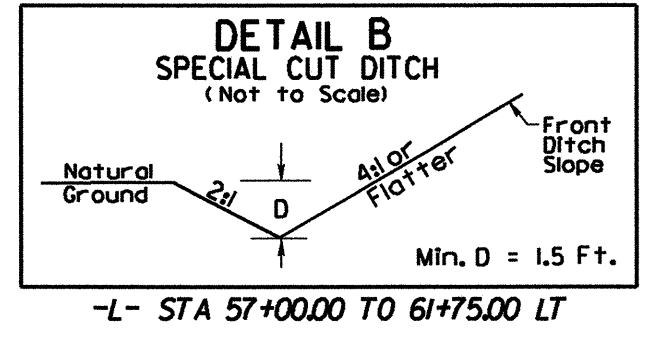
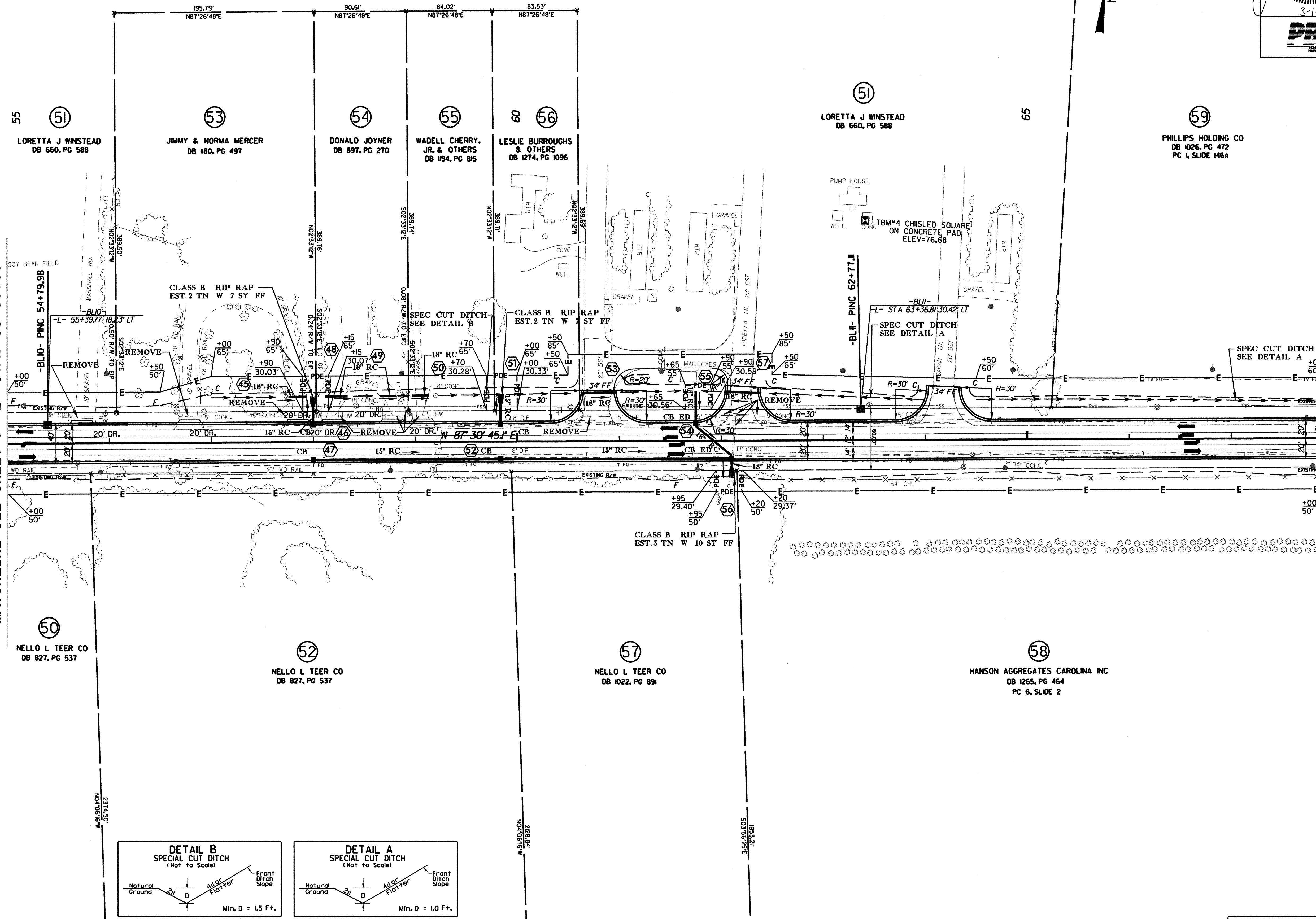
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 2/28/2007

PROJECT REFERENCE NO. 37740	SHEET NO. 8
RW SHEET NO. 8	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PARSONS BRINCKERHOFF	



MATCHLINE SEE SHEET 7 - L- STA. 55+00.00

MATCHLINE SEE SHEET 9 - L- STA. 68+00.00



SEE SHEET 13 & 14 FOR -L- PROFILE

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2/28/2007

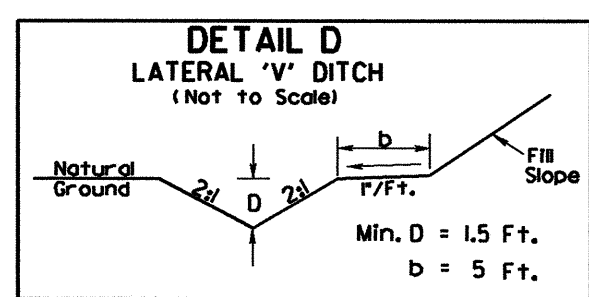
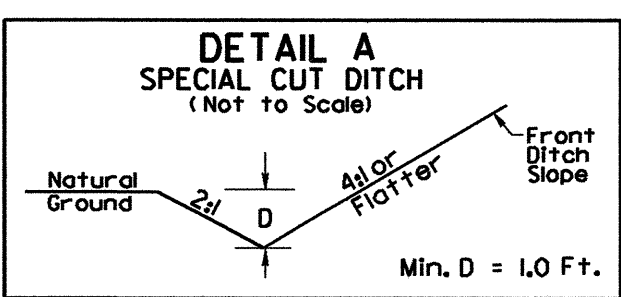
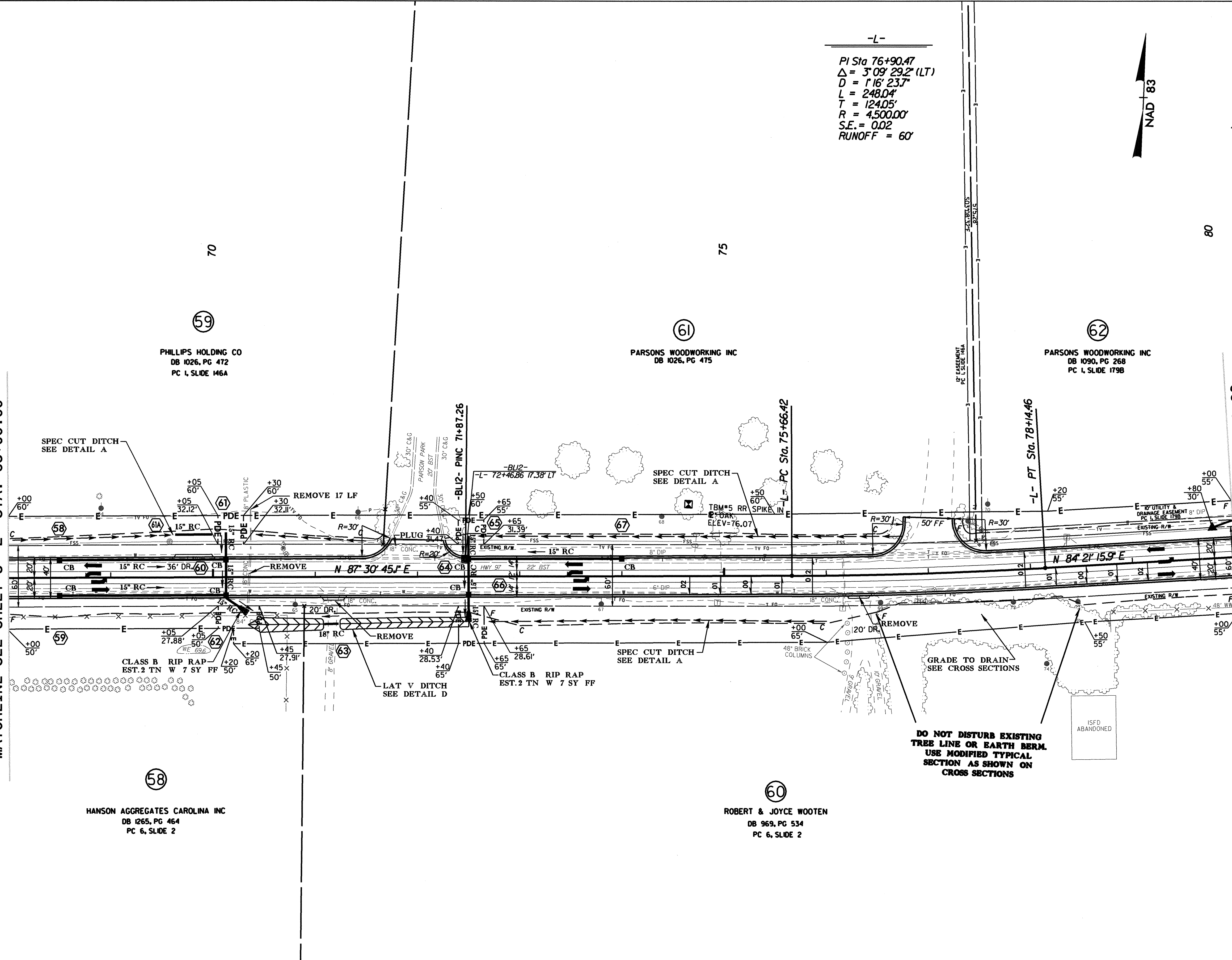
PROJECT REFERENCE NO. 37740	SHEET NO. 9
RW SHEET NO. 9	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-
 PI Sta 76+90.47
 $\Delta = 3^{\circ}09'29.2''$ (LT)
 $D = 1^{\circ}16'23.7''$
 $L = 248.04'$
 $T = 124.05'$
 $R = 4,500.00'$
 $S.E. = 0.02$
 $RUNOFF = 60'$

MATCHLINE SEE SHEET 8 -L- STA. 68+00.00

MATCHLINE SEE SHEET 10 -L- STA. 80+00.00



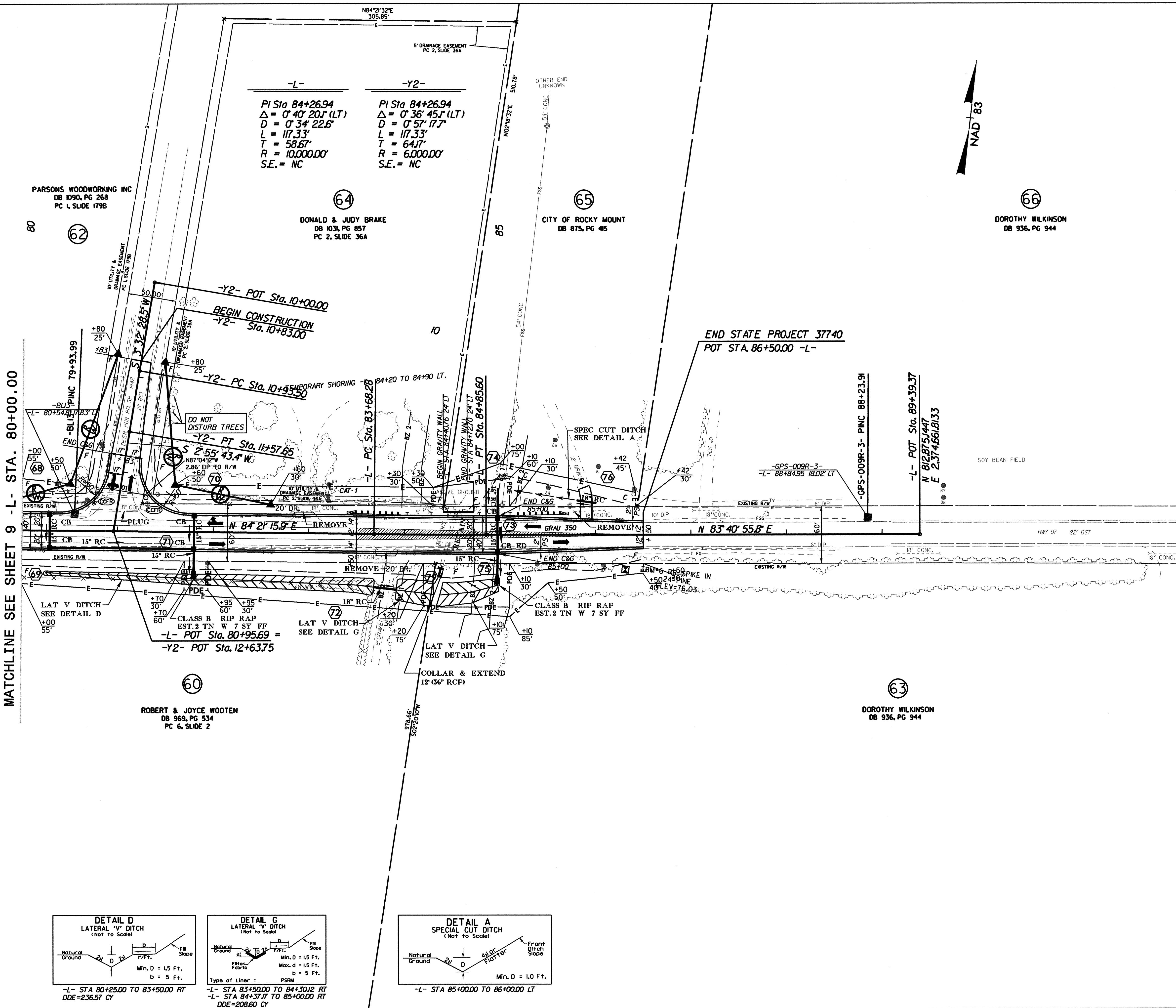
-L- STA 68+00.00 TO 71+50.00 LT
 -L- STA 72+50.00 TO 76+75.00 LT
 -L- STA 72+50.00 TO 76+00.00 RT

-L- STA 70+35.00 TO 72+50.00 RT DDE=134.23 CY

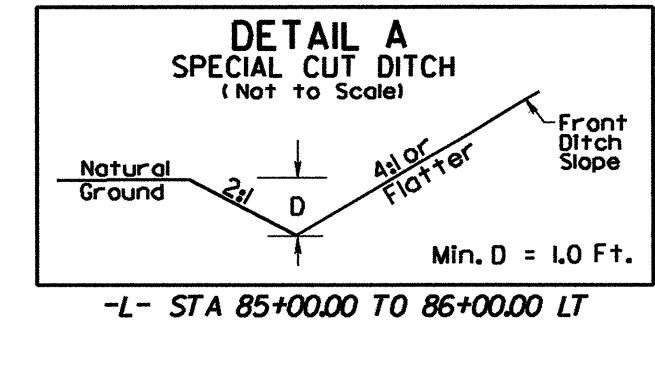
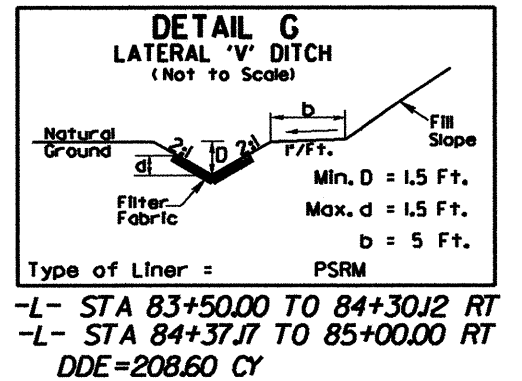
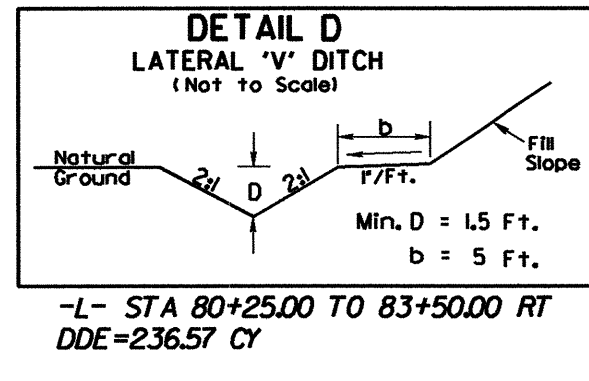
SEE SHEET 14 FOR -L- PROFILE

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 2/28/2007

PROJECT REFERENCE NO. 37740	SHEET NO. 10
R/W SHEET NO. 10	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PARSONS BRINCKERHOFF	



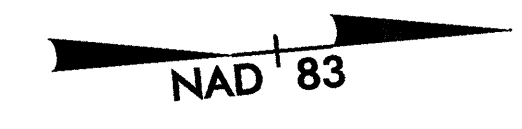
MATCHLINE SEE SHEET 9 -L- STA. 80+00.00



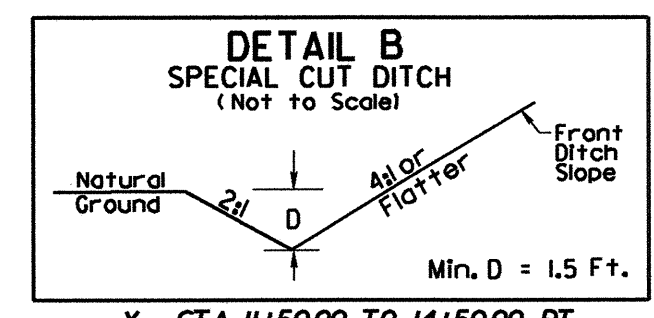
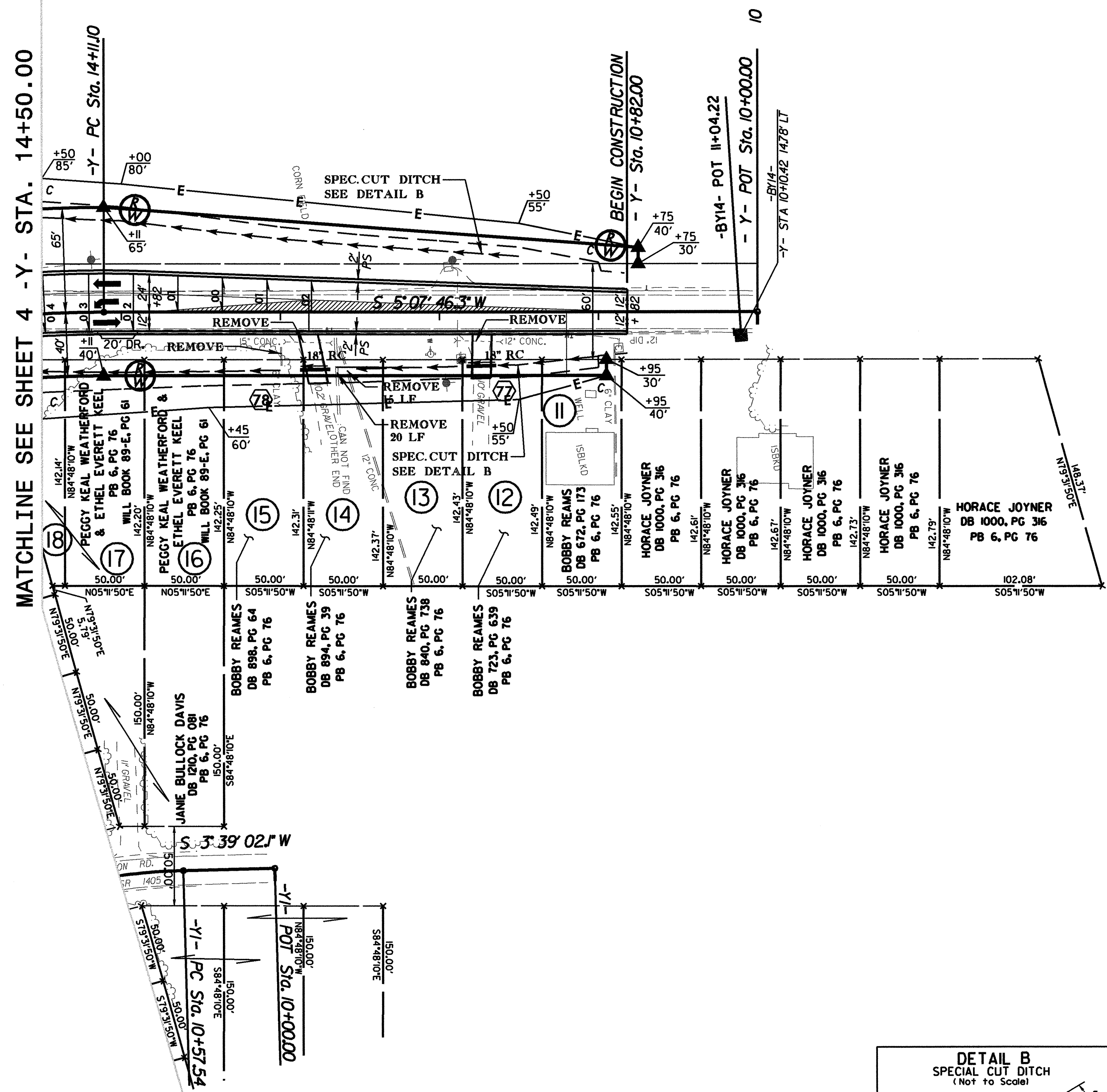
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*pfr**
2/28/2007

SEE SHEET 14 FOR -L- PROFILE
SEE SHEET 15 FOR -Y2- PROFILE

-Y-	-Y-	-Y1-
PI Sta 14+98.45 $\Delta = 13' 38' 49.1''$ (LT) $D = 7' 50' 55.5''$ $L = 173.87'$ $T = 87.35'$ $R = 730.00'$ $S.E. = 0.04$ $RUNOFF = 112'$	PI Sta 17+18.02 $\Delta = 2' 32' 25.5''$ (LT) $D = 0' 57' 17.7''$ $L = 266.03'$ $T = 133.04'$ $R = 6,000.00'$ $S.E. = NC$	PI Sta 11+00.27 $\Delta = 13' 13' 51.8''$ (LT) $D = 15' 32' 55.9''$ $L = 85.09'$ $T = 42.74'$ $R = 368.49'$



③
 RICHARD T. FOUNTAIN
 TRAINING SC.
 DB 962 PG244



-Y- STA 11+50.00 TO 14+50.00 RT
 -Y- STA 11+00.00 TO 14+50.00 LT

SEE SHEET 15 FOR -Y- & -Y1- PROFILE

5/28/99

-L- (NC 97)

BM #1 ELEV = 78.60'
N = 813.254 E = 2366.952
BL STA 8+63 139' RIGHT
RR SPIKE IN
24" GUM TREE

100 -L- POT Sta. 10+00.00
BEGIN CONSTRUCTION
ELEV. 78.47

90 PI = 10+75.00
EL = 78.22'
VC = 100'
K = 179

PI = 13+00.00
EL = 78.72'
VC = 200'
K = 261

PI = 15+00.00
EL = 77.63'
VC = 100'
K = 148

PI = 17+00.00
EL = 77.89'
VC = 230'
K = 295

PI = 19+75.00
EL = 76.10'
VC = 100'
K = 136

PI = 22+00.00
EL = 76.29'
VC = 100'
K = 326

80 (+)0.3373% (+)0.2222% (+)0.2222% (-)0.5450% (-)0.5450% (+)0.1300% (+)0.6309% (-)0.6509% (+)0.0844% (+)0.0844% (-)0.2220%

70 0.30% 4.06% 0.30% 3.27% 0.30% 0.30% 0.30% 3.21% 3.19%

60 BEGIN DITCH RT STA 10+00.00 EL 78.394
BEGIN DITCH LT STA 11+00.00 EL 78.632
PI DITCH RT STA 11+00.00 EL 78.664
END DITCH RT STA 11+50.00 EL 78.696
PI DITCH LT STA 13+00.00 EL 78.032
PI DITCH LT STA 13+84.99 EL 72.850
BEGIN DITCH RT STA 13+48.99 EL 71.565
END DITCH RT STA 14+28.32 EL 71.532
END DITCH LT STA 14+29.96 EL 72.500
PI DITCH LT STA 19+00.00 EL 73.950
PI DITCH LT STA 20+00.00 EL 73.650
BEGIN DITCH LT STA 20+50.00 EL 74.407
PI DITCH LT STA 21+00.00 EL 72.500
END DITCH LT STA 22+00.00 EL 73.690

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

-L- (NC 97)

BM #2 ELEV = 78.04'
N = 813.510 E = 2368.375
BL STA 23+74 130' RIGHT
RR SPIKE IN
16" OAK TREE

100

90

PI = 27+00.00
EL = 75.18'
VC = 200'
K = 722

PI = 29+00.00
EL = 75.23'
VC = 200'
K = 191

PI = 31+50.00
EL = 78.04'
VC = 120'
K = 183

PI = 33+30.00
EL = 78.84'
VC = 240'
K = 201

PI = 36+60.00
EL = 76.48'
VC = 100'
K = 214

80 75.85

70

60

50

80 (-)0.2220% (+)0.0550% (+)0.0550% (+)0.1000% (+)0.1000% (+)0.4444% (+)0.4444% (-)0.4444% (-)0.7152% 0.70% (-)0.7152% (-)0.2472% 0.30%

BEGIN DITCH RT STA 34+80.00 EL 74.730
PI DITCH RT STA 36+50.00 EL 75.610

24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

PROJECT REFERENCE NO. 37740	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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3/25/2005

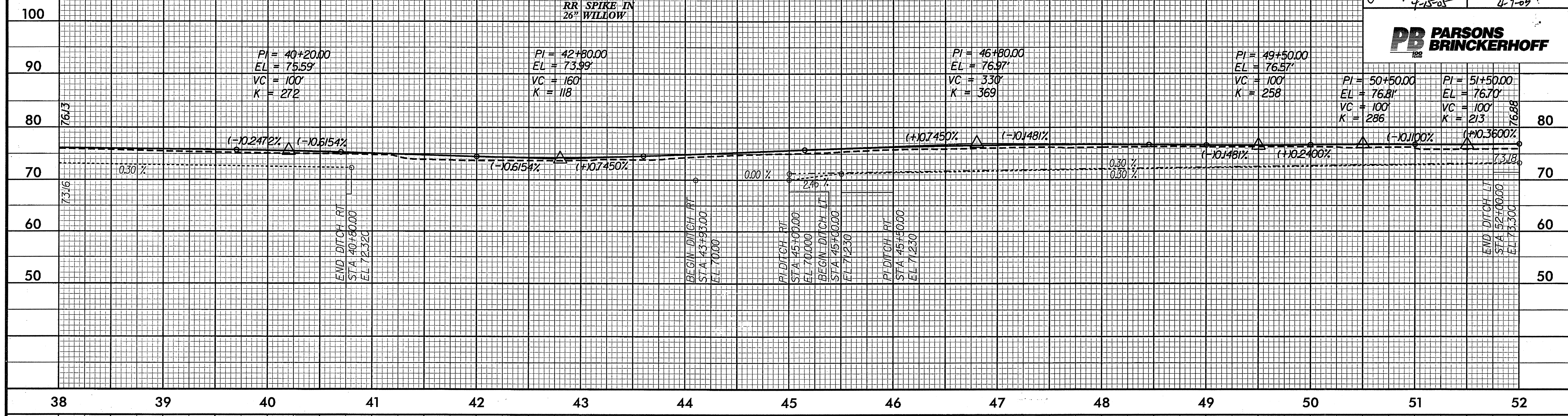
5/28/99

PROJECT REFERENCE NO. 37740	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
4-15-05	4-7-09



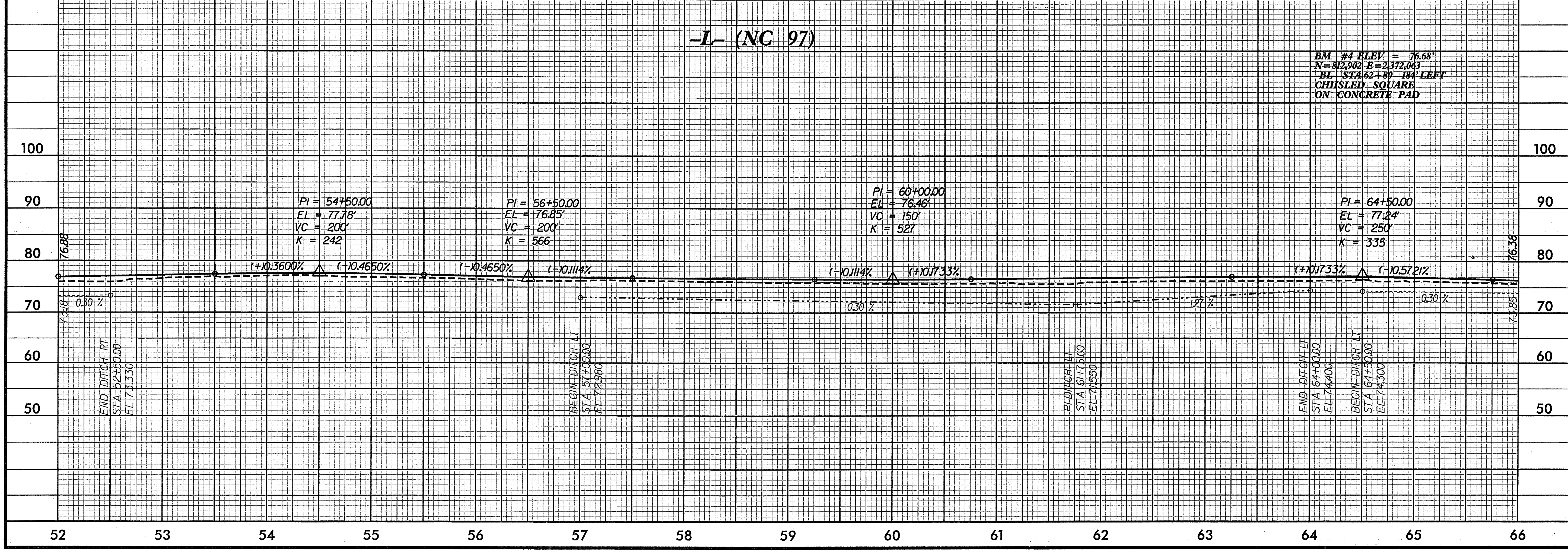
-L- (NC 97)

BM #3 ELEV = 74.32'
 N = 812.717 E = 2,370.024
 -BL- STA 42+63 95° RIGHT
 RR SPIKE IN
 26" WILLOW



-L- (NC 97)

BM #4 ELEV = 76.68'
 N = 812.902 E = 2,372.063
 -BL- STA 62+80 184° LEFT
 CHISLED SQUARE
 ON CONCRETE PAD



G:\PROJECTS\20344 NC97\TIP\Roadway\Proj\nc97_r_dy.pfl.dgn
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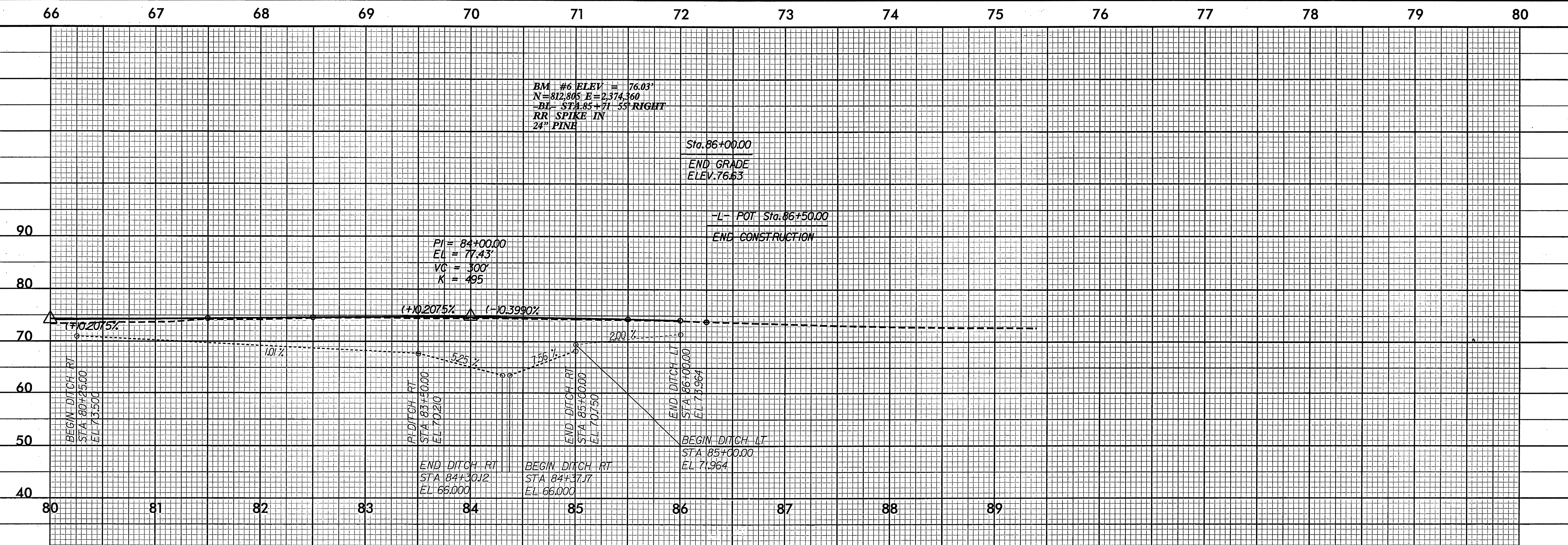
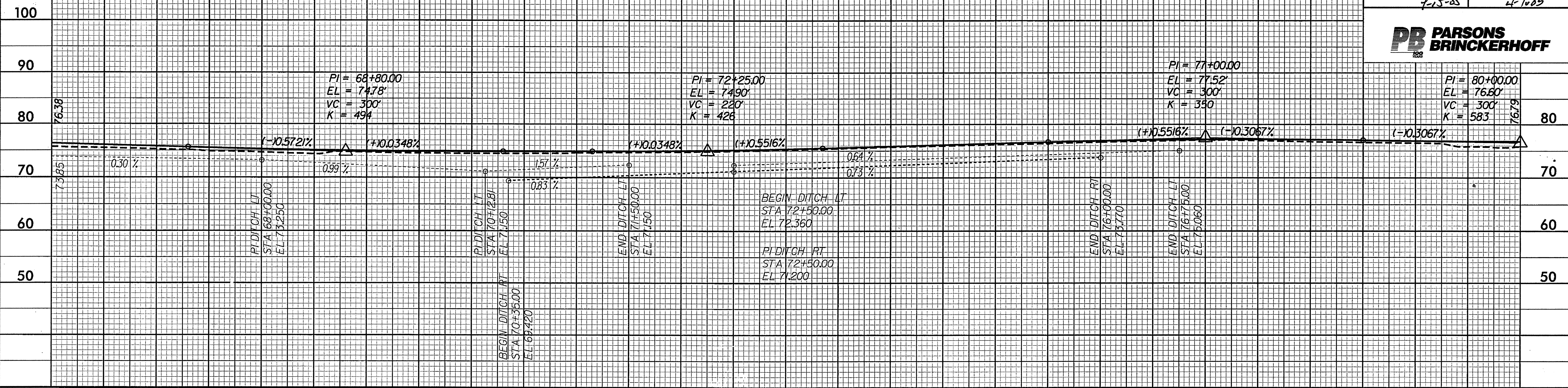
5/25/99

PROJECT REFERENCE NO. 37740	SHEET NO. 14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
4-15-05	4-1-05



-L- (NC 97)

BM #5 ELEV = 76.07'
 N = 812,806 E = 2,373,192
 BL - STA 74+07.47 LEFT
 RR SPIKE IN
 12" OAK



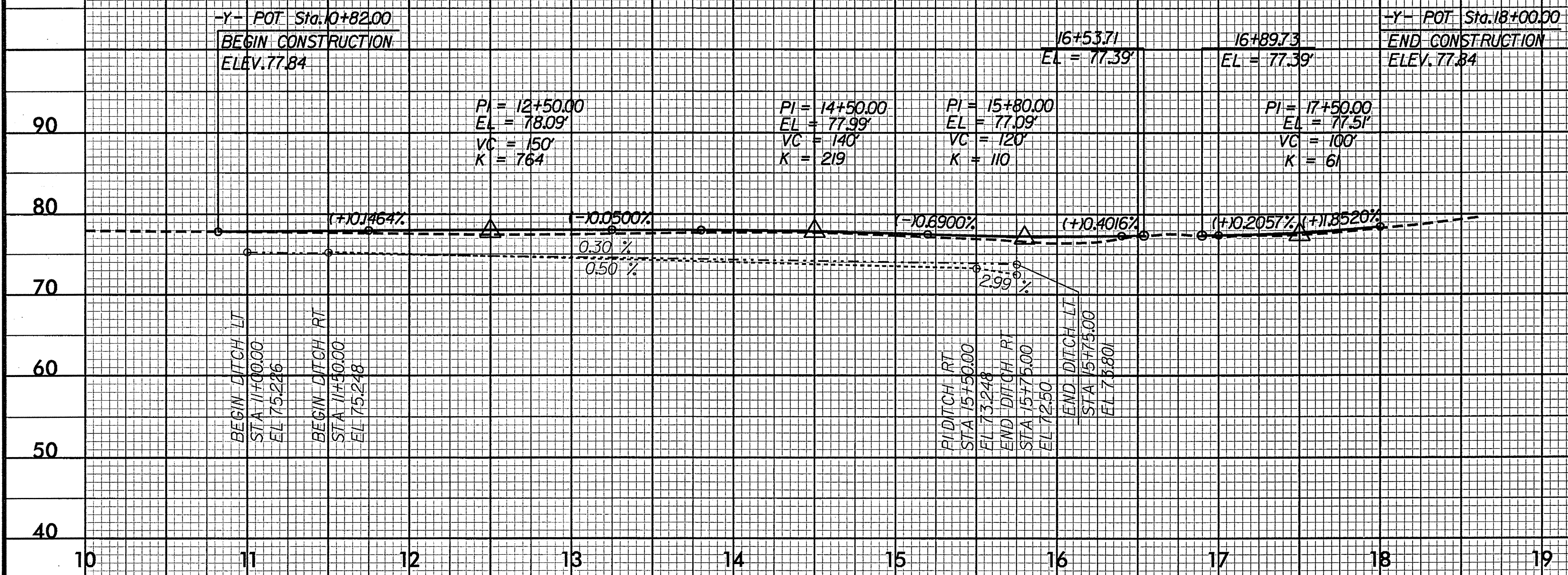
BM #6 ELEV = 76.03'
 N = 812,805 E = 2,374,360
 BL - STA 85+71.55 RIGHT
 RR SPIKE IN
 24" PINE

Sta. 86+00.00
 END GRADE
 ELEV. 76.63
 -L- POT Sta. 86+50.00
 END CONSTRUCTION

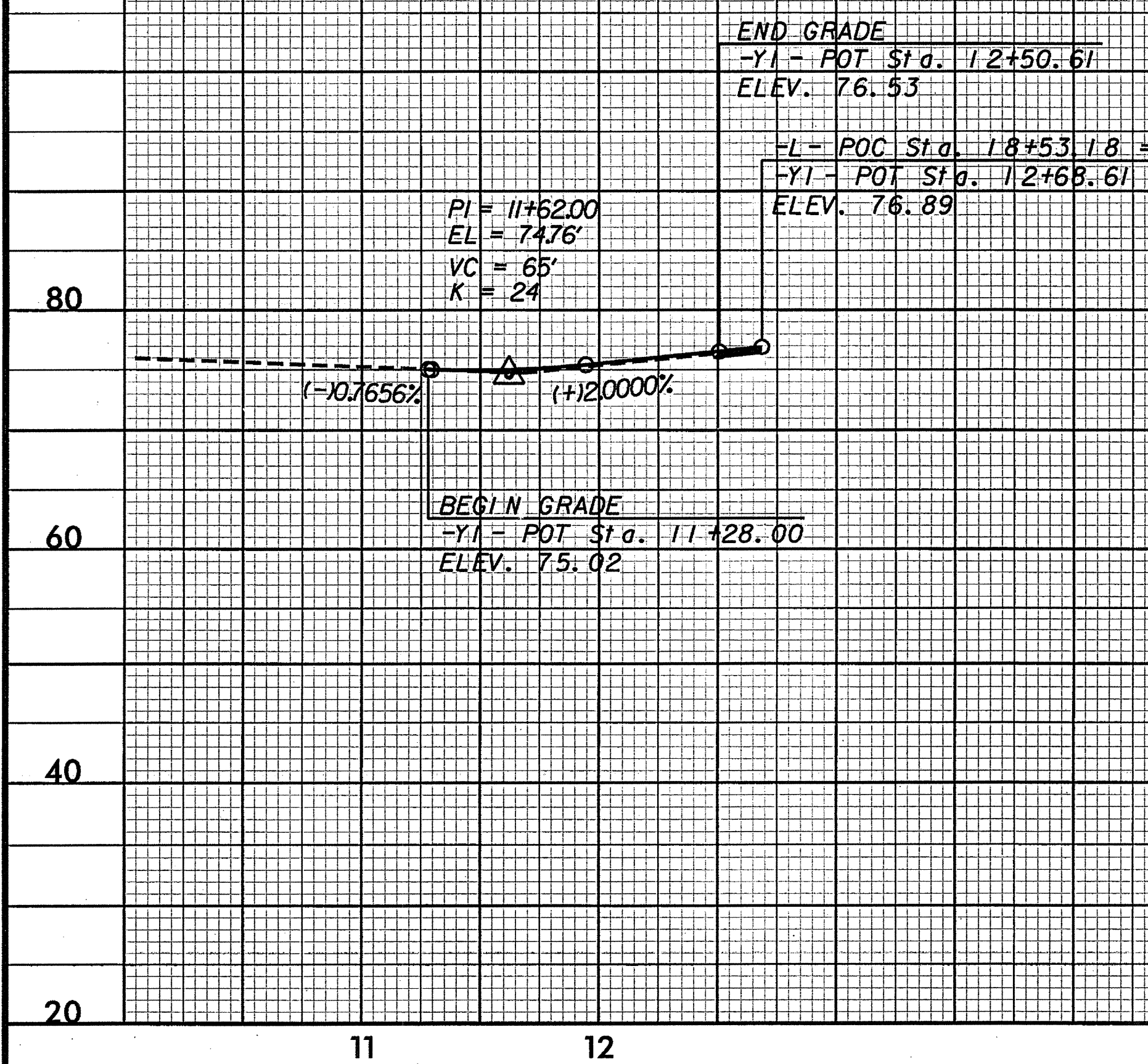
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 3/25/2005

5/28/99

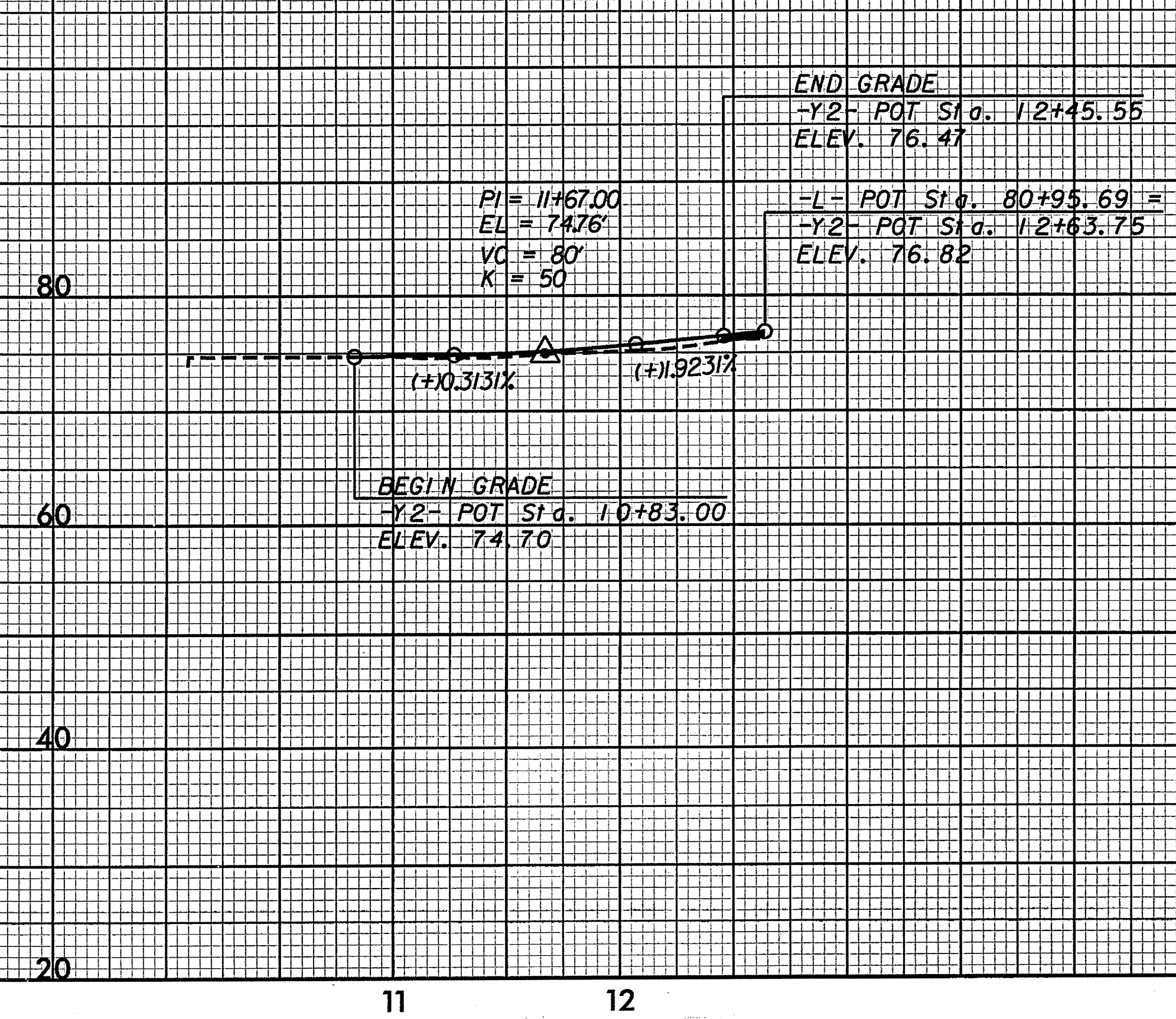
-Y- SR 1400 \ SR 1250



-Y1- SR 1405 (AVALON RD.)



-Y2- SR 1442 (DEER RUN RD.)



PROJECT REFERENCE NO. 37740	SHEET NO. 15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PARSONS BRINCKERHOFF	

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