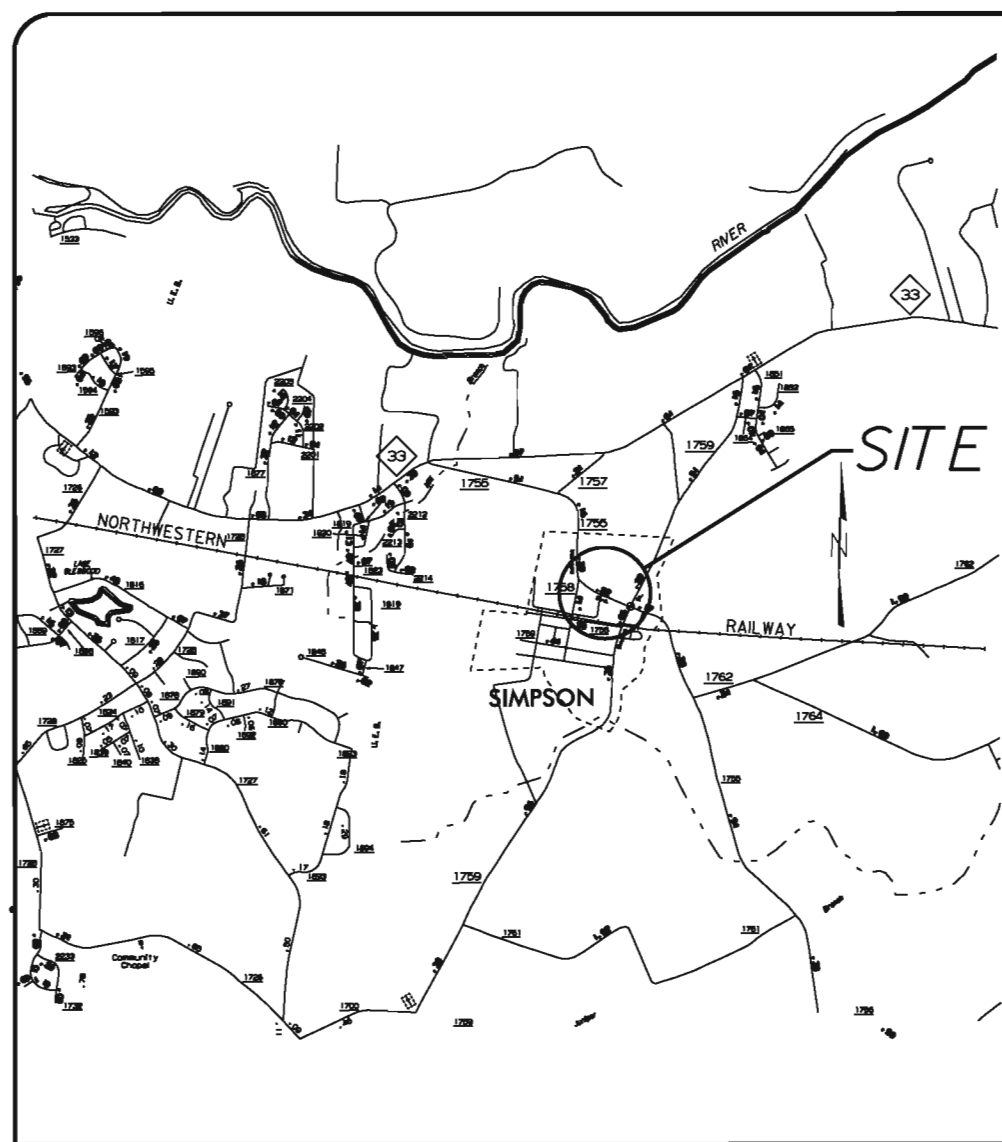


09/08/99

PROJECT: 31191



VICINITY MAP

See Sheet 1-A For Index of Sheets

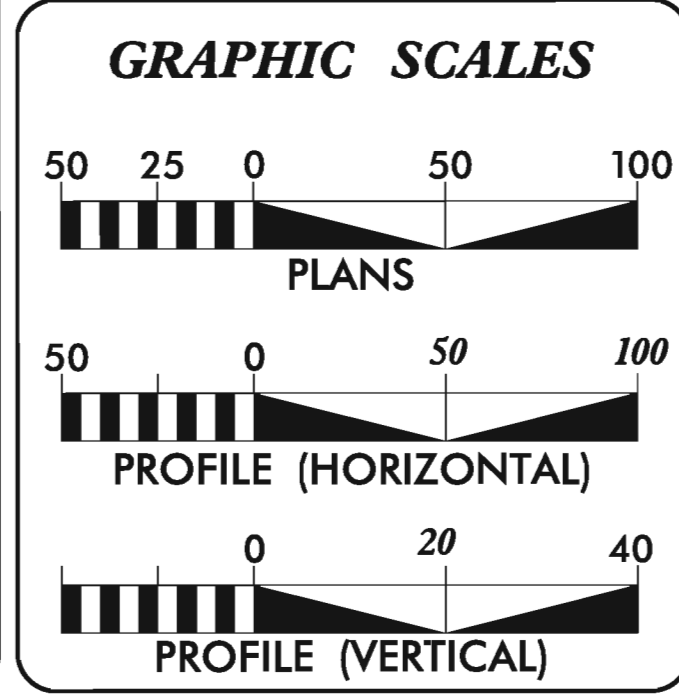
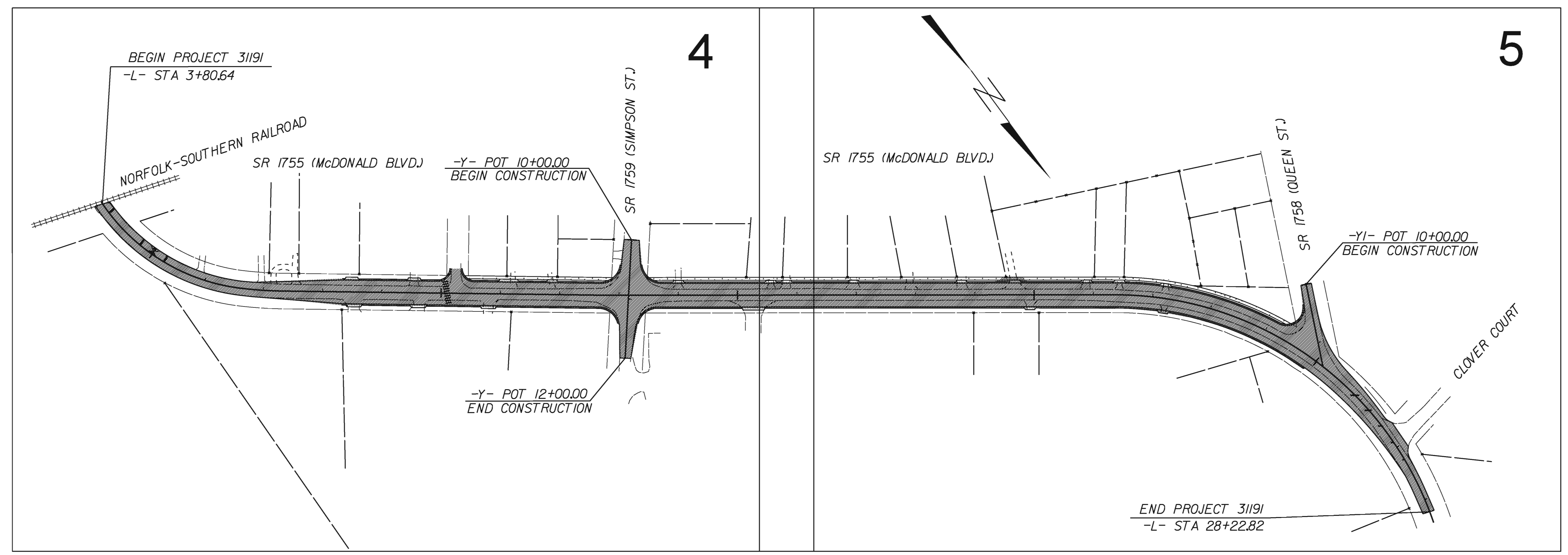
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PITT COUNTY

**LOCATION: SIMPSON - SR 1755 (McDONALD BLVD.) FROM
NORFOLK-SOUTHERN RAILROAD TO CLOVER COURT.**

TYPE OF WORK: GRADING, DRAINAGE, CURB & GUTTER, PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	31191	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



PROJECT LENGTH

LENGTH ROADWAY PROJECT -L = 0.463 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1704 N. GREENE ST., GREENVILLE NC, 27834

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A

LETTING DATE: JUNE 2012

DWAYNE ALLIGOOD, PE
PROJECT ENGINEER

DWAYNE ALLIGOOD, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER SEAL 16710
DWAYNE H. ALLIGOOD

05/24/2012

SIGNATURE: Dwayne H. Alligood

ROADWAY DESIGN ENGINEER SEAL 16710
DWAYNE H. ALLIGOOD

05/24/2012

SIGNATURE: Dwayne H. Alligood

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE DESIGN ENGINEER P.E.

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED DIVISION ADMINISTRATOR DATE

30-MAY-2012 09:49
G:\PROJECTS\PITT\Simpson\simpson-ddc2.psh.l.dgn
mickson AT D2CAD246301

INDEX OF SHEETS

I	TITLE SHEET
I-A	INDEX OF SHEETS, LIST OF STANDARDS, AND GENERAL NOTES
I-B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3-A THRU 3-B	DRAINAGE SUMMARY
3-C	EARTHWORK SUMMARY
3-D	CURB RAMPS
4 THRU 5	PLAN SHEETS
4A AND 5A	R/W SHEETS
6 THRU 7	PROFILE SHEETS
PM-1 THRU PM-2	PAVEMENT MARKING SHEETS
EC-1 THRU EC-3	EROSION CONTROL PLAN SHEETS
X-1A	CROSS SECTION SUMMARY SHEET
X-1 THRU X-5	CROSS SECTIONS

GENERAL NOTES

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

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 ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. 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.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

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 STD. 848.02 USING 3' RADIUS OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS 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 RADIUS NOTED ON PLANS.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

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 GREENVILLE UTILITIES, ADELPHIA

CABLE, SPRINT, ESATERN PINES WATER CORPORATION

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.

LIST OF STANDARDS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

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
225.04 Method of Obtaining Superelevation - Two Lane Pavement
225.06 Method of Grading Sight Distance at Intersections

DIVISION 3 - PIPE CULVERTS

300.01 Method of Pipe Installation

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01 Method of Shoulder Construction - High Side of
Superelevated Curve - Method I

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

654.01 Pavement Repairs

DIVISION 8 - INCIDENTALS

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
840.14 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
840.45 Precast Drainage Structure
846.01 Concrete Curb, Gutter and Curb & Gutter
848.01 Concrete Sidewalk
848.02 Driveway Turnout - Radius Type
848.04 Street Turnout
876.02 Guide for Rip Rap at Pipe Outlets
1205.01 PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.04 PAVEMENT MARKINGS - INTERSECTIONS
1632.03 ROCK INLET SEDIMENT TRAP TYPE 'C'
1633.02 TEMPORARY ROCK SILT CHECK TYPE 'B'
1633.01 TEMPORARY ROCK SILT CHECK TYPE 'A'

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	(23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-WLB-
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or UG Tank Cap	○
Sign	○
Well	○
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	○
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 Drainage / Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
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 Wheel Chair Ramp	WCR
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	S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
UG Power Cable Hand Hole	PH
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 Cell Tower	⊗
UG Telephone Cable Hand Hole	PH
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	W
Designated U/G Water Line (S.U.E.*)	W
Above Ground Water Line	A/G Water

TV:

TV Satellite Dish	⊗
TV Pedestal	□
TV Tower	⊗
UG TV Cable Hand Hole	PH
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	G
Designated U/G Gas Line (S.U.E.*)	G
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

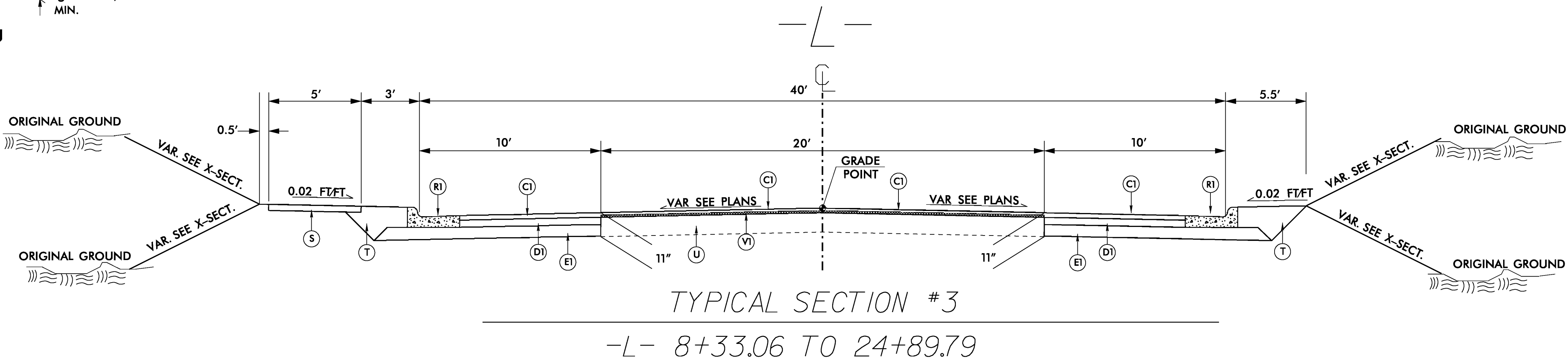
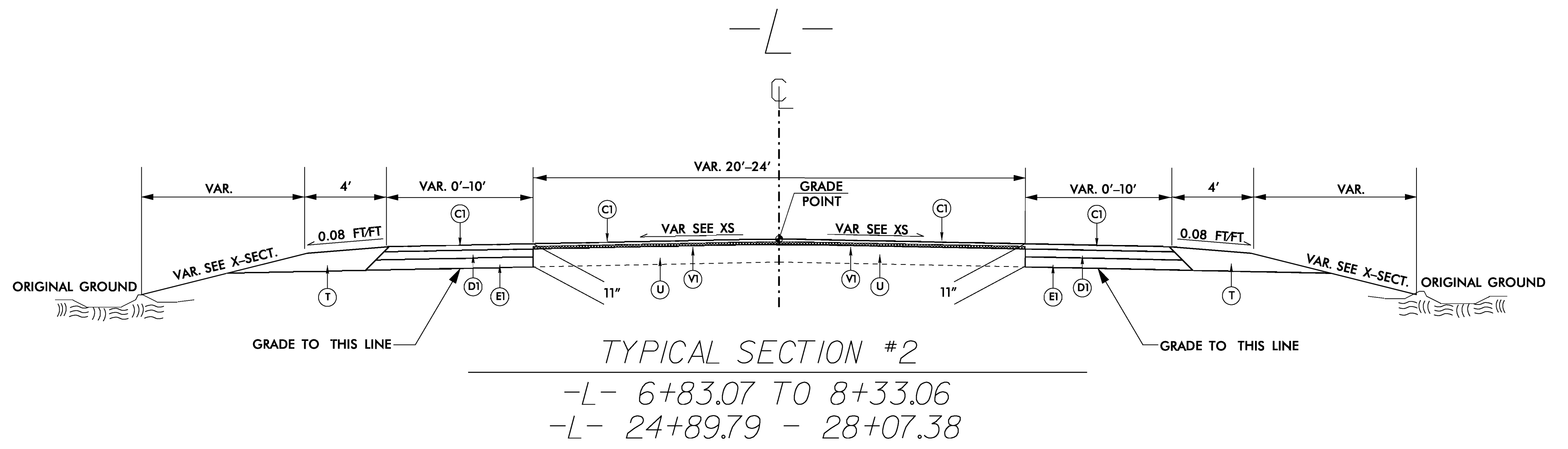
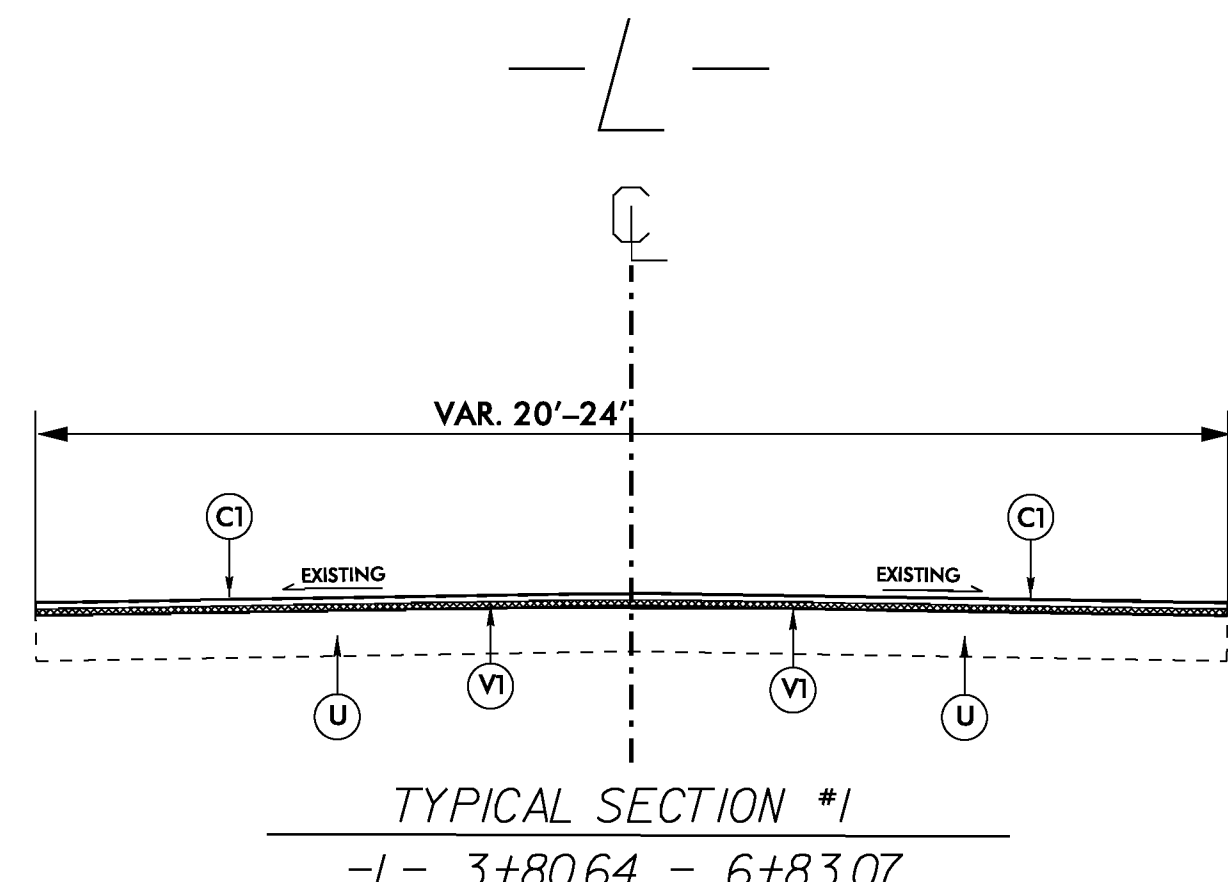
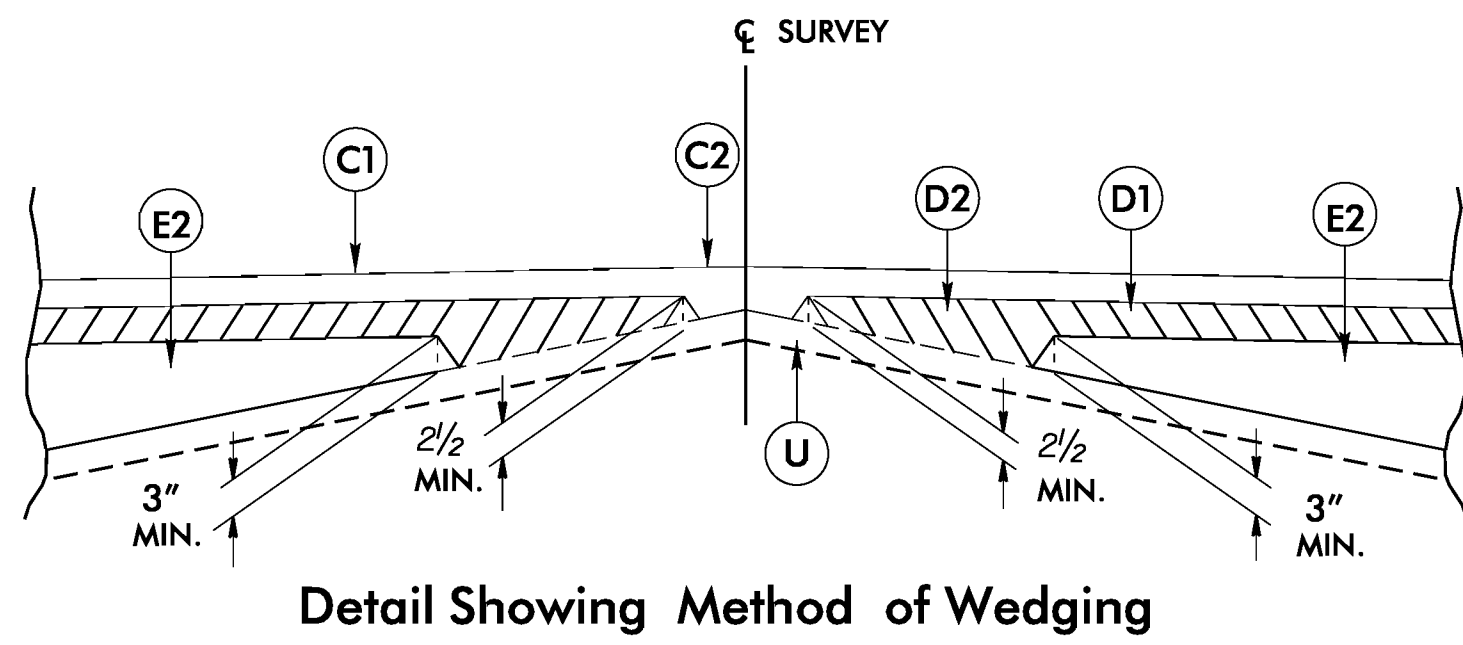
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
UG Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
Recorded SS Forced Main Line	FSS
Designated SS Forced Main Line (S.U.E.*)	FSS

MISCELLANEOUS:

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

C1	PROP. APPROX. 3" 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 LESS THAN 1 1/2" IN DEPTH.
C2	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" IN DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1 1/2" OR GREATER THAN 2".
D1	PROP. APPROX. 4" ASPHALT CONCRETE BINDER COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" IN DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" OR GREATER THAN 4".
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" IN DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 4" OR GREATER THAN 5 1/2".
R1	PROPOSED 2'-6" CONCRETE CURB & GUTTER.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	PROP. APPROX. 1 1/2" MILLING ASPHALT PAVEMENT.
W	VAR. DEPTH ASPHALT PAVEMENT. SEE DETAIL.

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



REVISIONS

8/17/09

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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF QUANTITIES

SEC •	QUANTITY	UNIT	DESCRIPTION	SEC •	QUANTITY	UNIT	DESCRIPTION
800	1	LS	MOBILIZATION	876	15	TON	RIP RAP, CLASS B
226	1	LS	GRADING	876	50	SY	GEOTEXTILE FOR DRAINAGE
300	170	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1105	1	LS	TEMPORARY TRAFFIC CONTROL
310	1321	LF	15" RC PIPE CULVERTS, CLASS III	1205	1825	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
310	212	LF	18" RC PIPE CULVERTS, CLASS III	1205	3362	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
310	69	LF	24" RC PIPE CULVERTS, CLASS III	1205	50	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
340	966	LF	PIPE REMOVAL	1205	44	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
545	200	TON	INCIDENTAL STONE BASE	1205	136	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
607	5632	SY	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH	1205	2	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTERS (120 MILS)
610	1260	TON	ASPHALT CONCRETE BASE COURSE, TYPE B25.0B	1205	16	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
610	930	TON	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B	1605	3000	LF	TEMPORARY SILT FENCE
610	1840	TON	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B	1610	25	TON	SEDIMENT CONTROL STONE
620	210	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG64-22	1615	1	ACRE	TEMPORARY MULCHING
840	23	EA	MASONRY DRAINAGE STRUCTURES	1620	50	LB	SEED FOR TEMPORARY SEEDING
840	11	EA	FRAME WITH GRATE, STD 840J6	1620	0.2	TON	FERTILIZER FOR TEMPORARY SEEDING
840	2	EA	FRAME WITH GRATE AND HOOD, STD 840.03, TYPE E	1630	20	CY	SILT EXCAVATION
840	5	EA	FRAME WITH GRATE AND HOOD, STD 840.03, TYPE F	1631	70	SY	MATTING FOR EROSION CONTROL
840	5	EA	FRAME WITH GRATE AND HOOD, STD 840.03, TYPE G	1632	75	LF	1/4" HARDWARE CLOTH
846	2820	LF	2' X 6" CONCRETE CURB AND GUTTER	SP	60	LF	WATTLE
848	740	SY	4" CONCRETE SIDEWALK	1660	2	ACRE	SEEDING AND MULCHING
848	240	SY	6" CONCRETE DRIVEWAY	1661	50	LB	SEED FOR REPAIR SEEDING
848	6	EA	CONCRETE CURB RAMPS	1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING

REVISIONS

8/17/99

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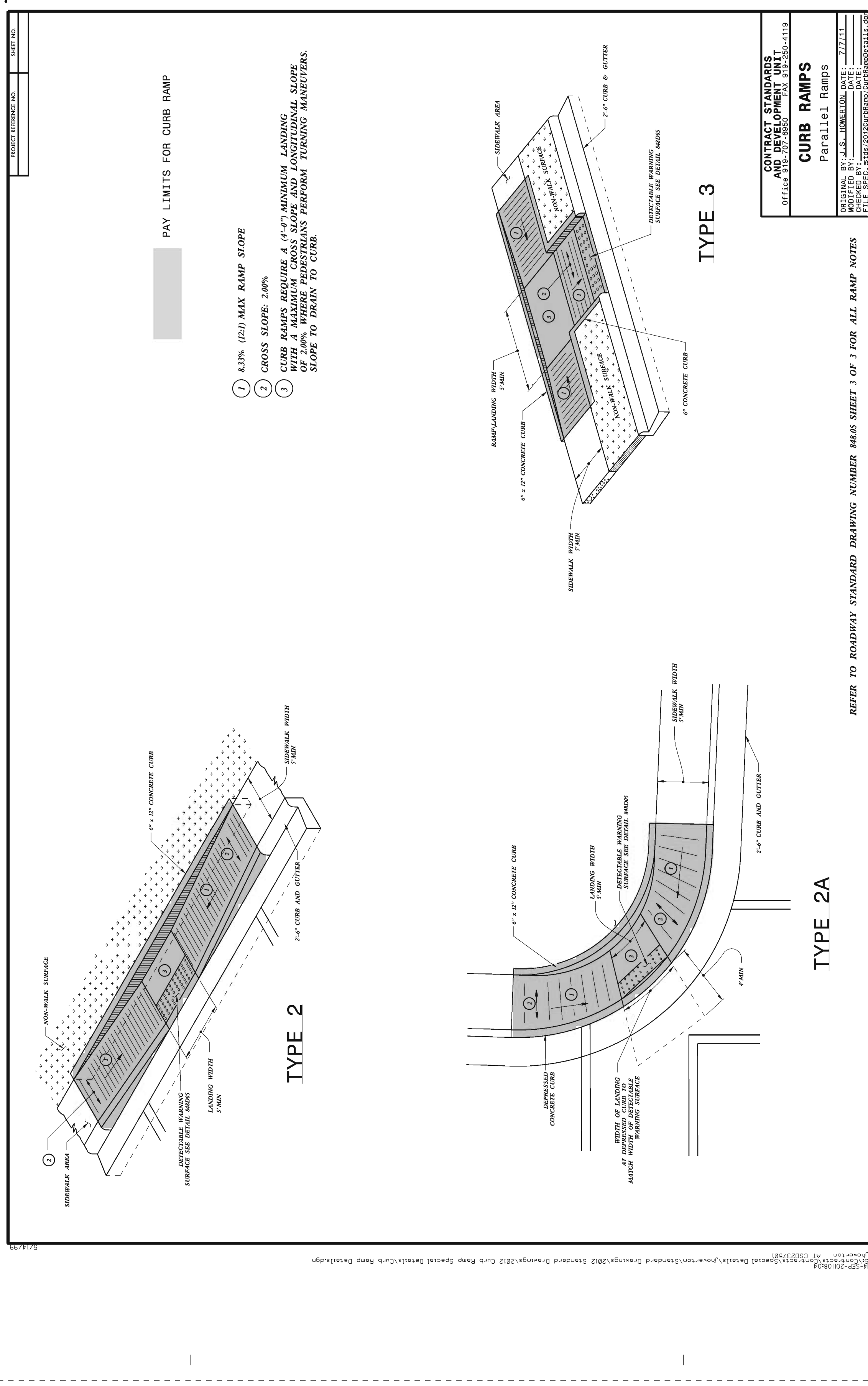
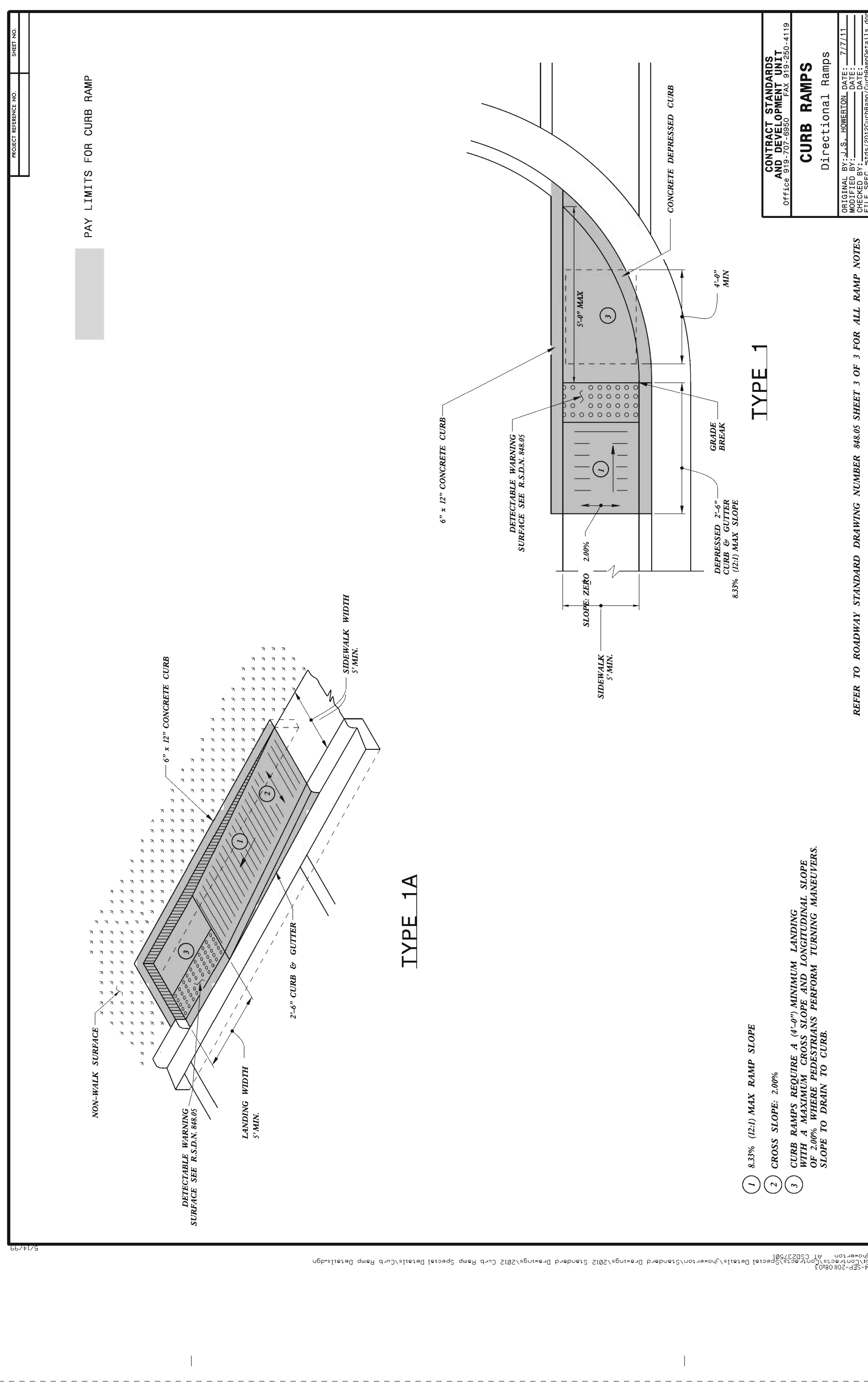
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

SUMMARY OF EARTHWORK

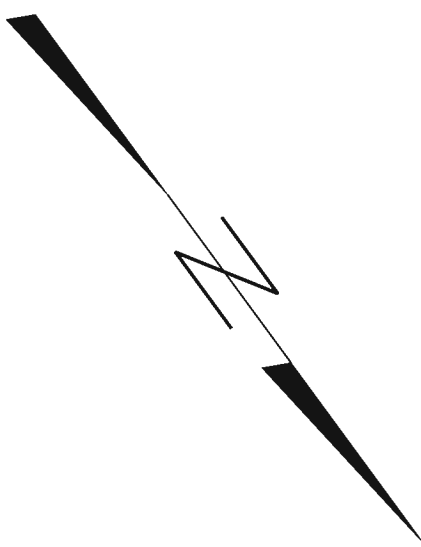
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	EMBT + %	BORROW	WASTE
-L- STA 7+00.00 TO 27+50.00	981	1173	192	
SUBTOTAL	981	1173	192	
LOSS DUE TO CLEARING & GRUBBING				
PROJECT GRAND TOTAL	981	1173	192	
SAY	990	1180	200	

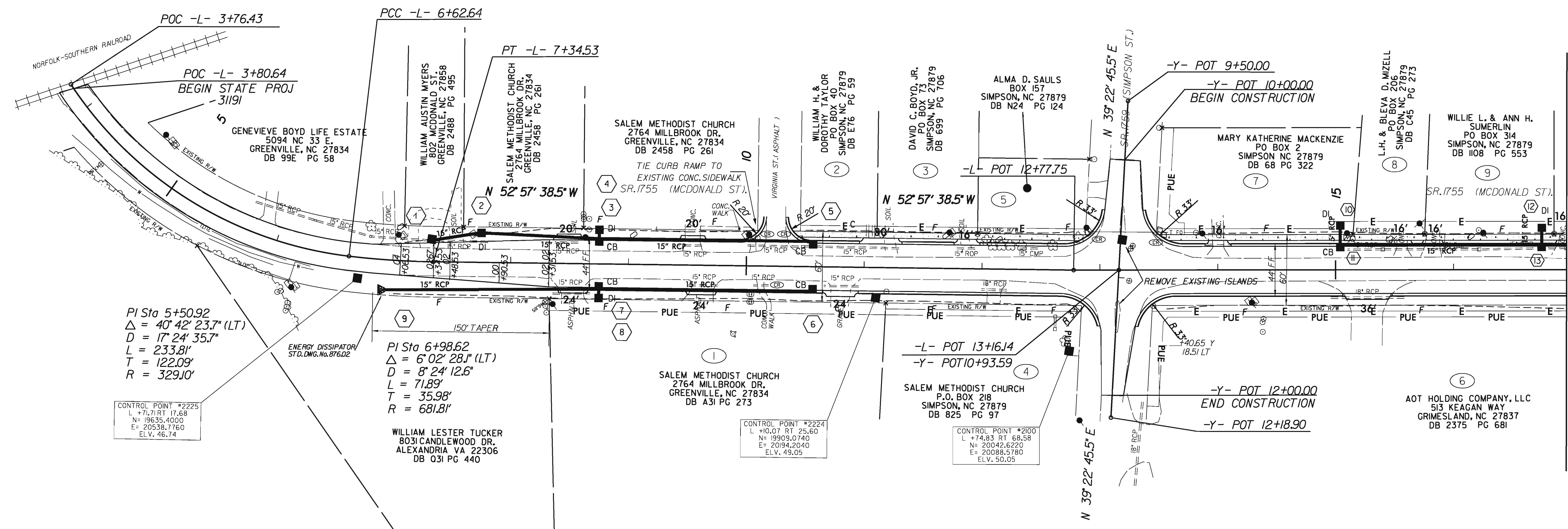
REVISIONS



PROJECT REFERENCE NO. 31191	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER DOROTHY TAYLOR PROFESSIONAL SEAL 16710 ENGINEER DOROTHY TAYLOR 05/24/2012	HYDRAULICS ENGINEER DOROTHY TAYLOR PROFESSIONAL SEAL 16710 ENGINEER DOROTHY TAYLOR 05/24/2012



REVISIONS



PI Sta 5+50.92
 $\Delta = 40^\circ 42' 23.7''$ (LT)
 $D = 17' 24' 35.7''$
 $L = 233.81'$
 $T = 122.09'$
 $R = 329.10'$

CONTROL POINT #2225
 $L = 71.71$ RT 17.68
 $N = 196.35$ 4000
 $E = 20338.1760$
 $ELV. = 46.74$

PI Sta 6+98.62
 $\Delta = 6^\circ 02' 28.1''$ (LT)
 $D = 8' 24' 12.6''$
 $L = 71.89'$
 $T = 35.98'$
 $R = 681.81'$

WILLIAM LESTER TUCKER
 8031 CANDLEWOOD DR.
 ALEXANDRIA, VA 22306
 DB 031 PG 440

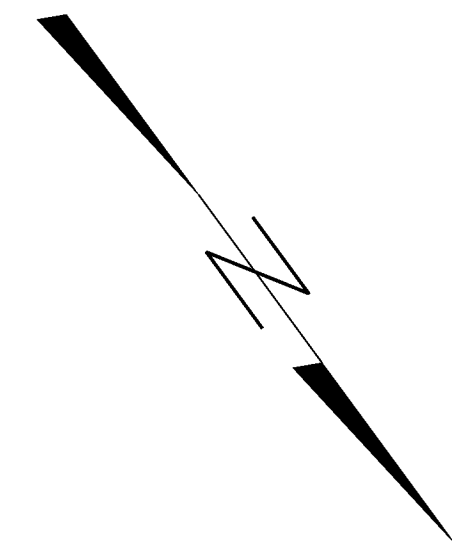
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 $L = 10.07$ RT 25.60
 $N = 19303.0740$
 $E = 20194.2040$
 $ELV. = 49.05$

CONTROL POINT #2100
 $L = 74.83$ RT 68.58
 $N = 20042.6220$
 $E = 20088.5780$
 $ELV. = 50.05$

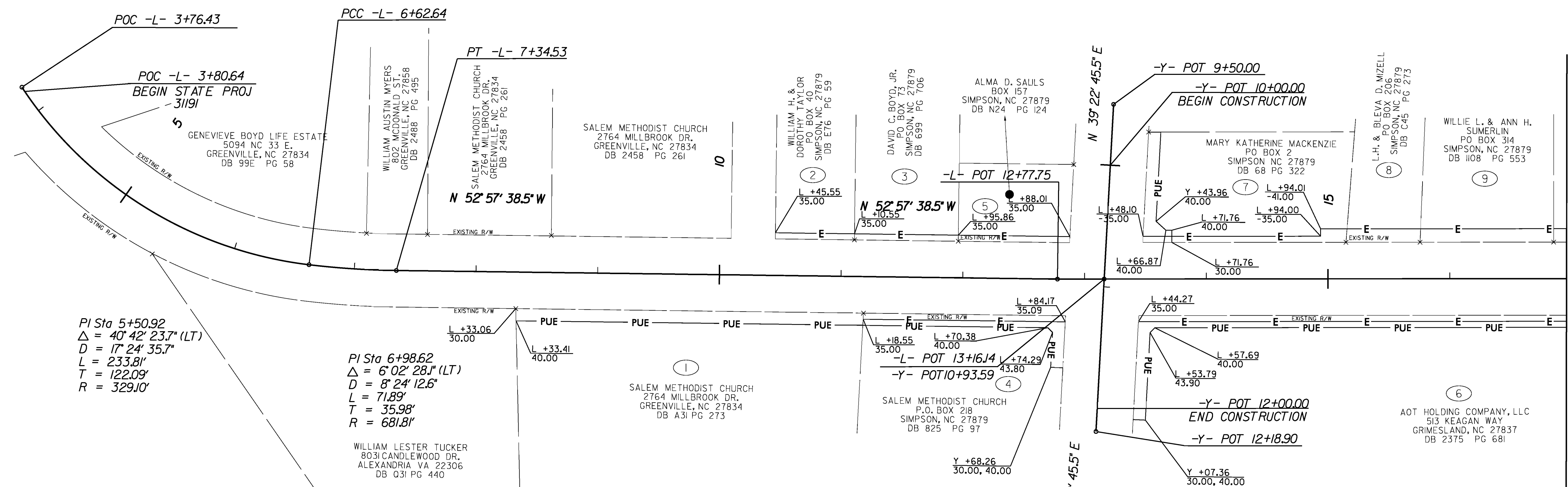
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REVISIONS



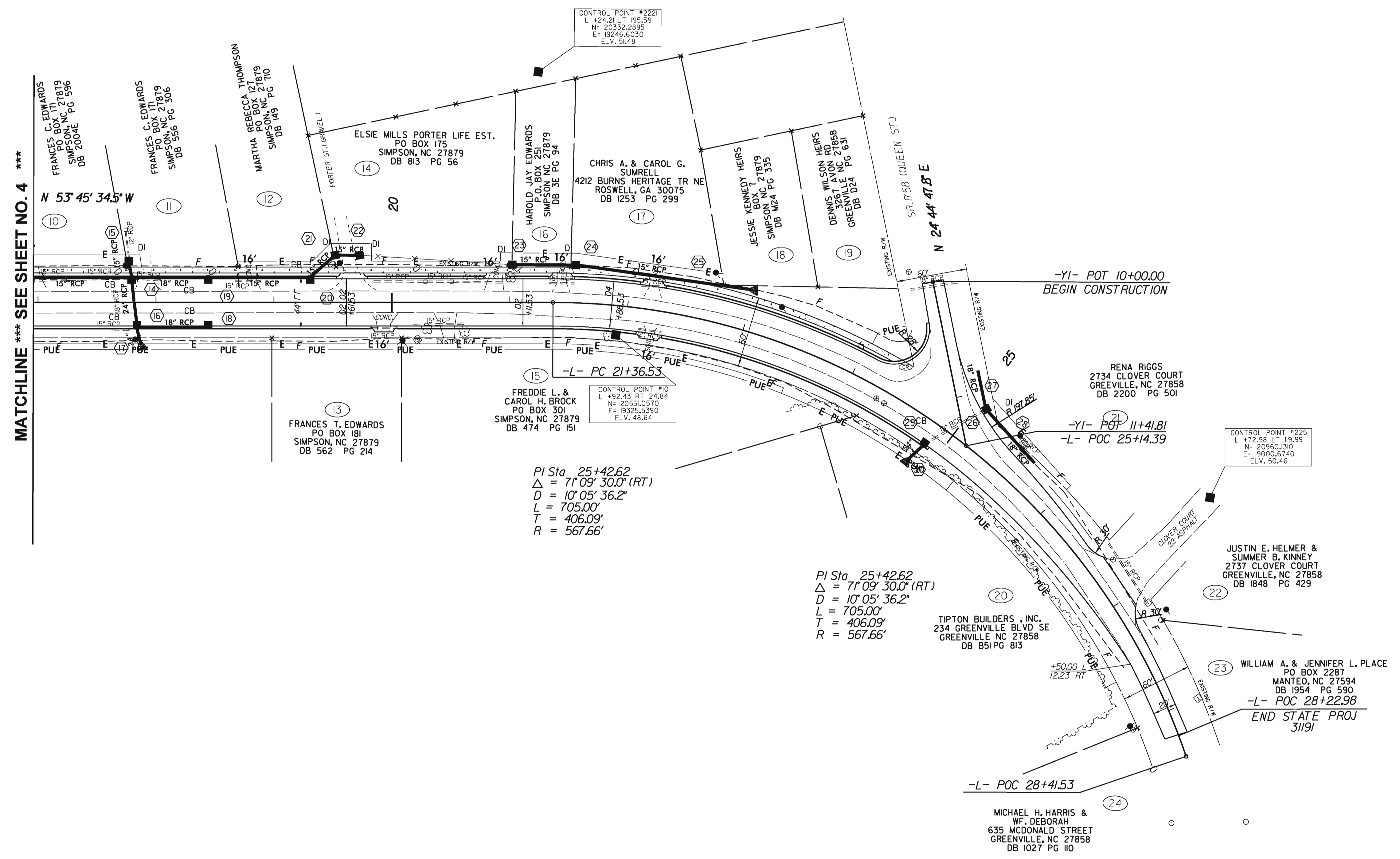
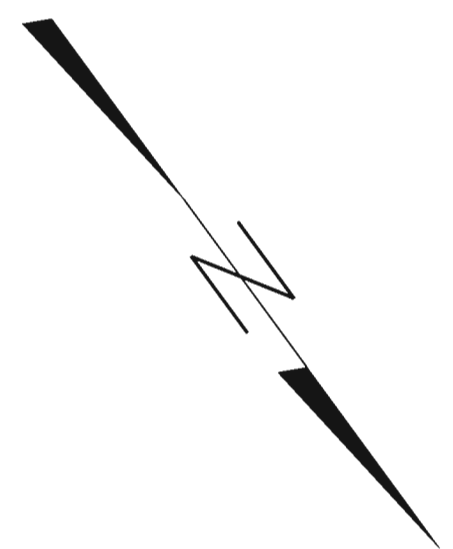
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 $D = 17^\circ 24' 35.7\"$
 $L = 233.81'$
 $T = 122.09'$
 $R = 329.10'$

PI Sta 6+98.62
 $\Delta = 6^\circ 02' 28.1\" (LT)$
 $D = 8^\circ 24' 12.6\"$
 $L = 71.89'$
 $T = 35.98'$
 $R = 681.81'$

MATCHLINE *** SEE SHEET NO. 5-A ***

8/17/99

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MATCHLINE *** SEE SHEET NO. 4 ***

PI Sta. 25+42.62
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 $D = 10^{\circ}05'36.2''$
 $L = 705.00'$
 $T = 406.09'$
 $R = 567.66'$

PI Sta. 25+42.62
 $\Delta = 71^{\circ}09'30.0''$ (RT)
 $D = 10^{\circ}05'36.2''$
 $L = 705.00'$
 $T = 406.09'$
 $R = 567.66'$

CONTROL POINT #225
 $L = +72.98$ LT 19.99
 $N = 20960.1310$
 $E = 19000.6740$
 ELEV. 50.46

CONTROL POINT #221
 $L = +24.21$ LT 195.59
 $N = 20332.2895$
 $E = 19246.6030$
 ELEV. 51.48

CONTROL POINT #10
 $L = +92.43$ RT 24.84
 $N = 20551.0570$
 $E = 19325.5390$
 ELEV. 48.64

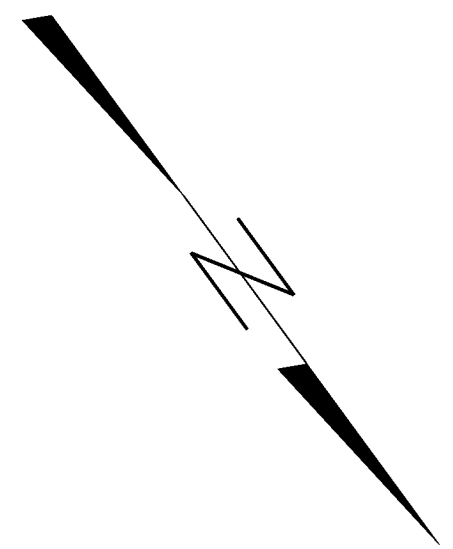
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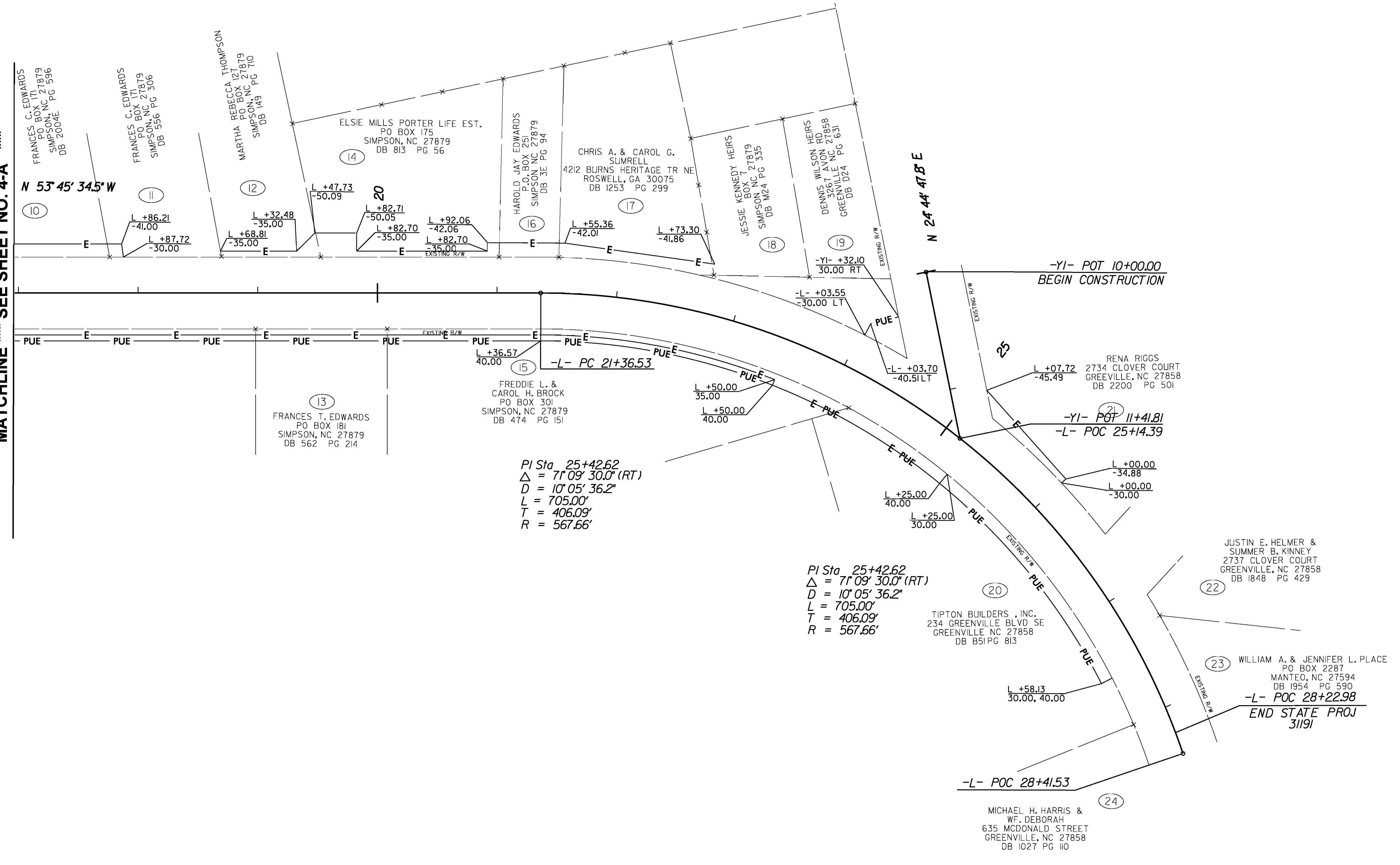
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8/17/09

REVISIONS



MATCHLINE *** SEE SHEET NO. 4-A ***



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 AT 11:20:20 2/10/2010

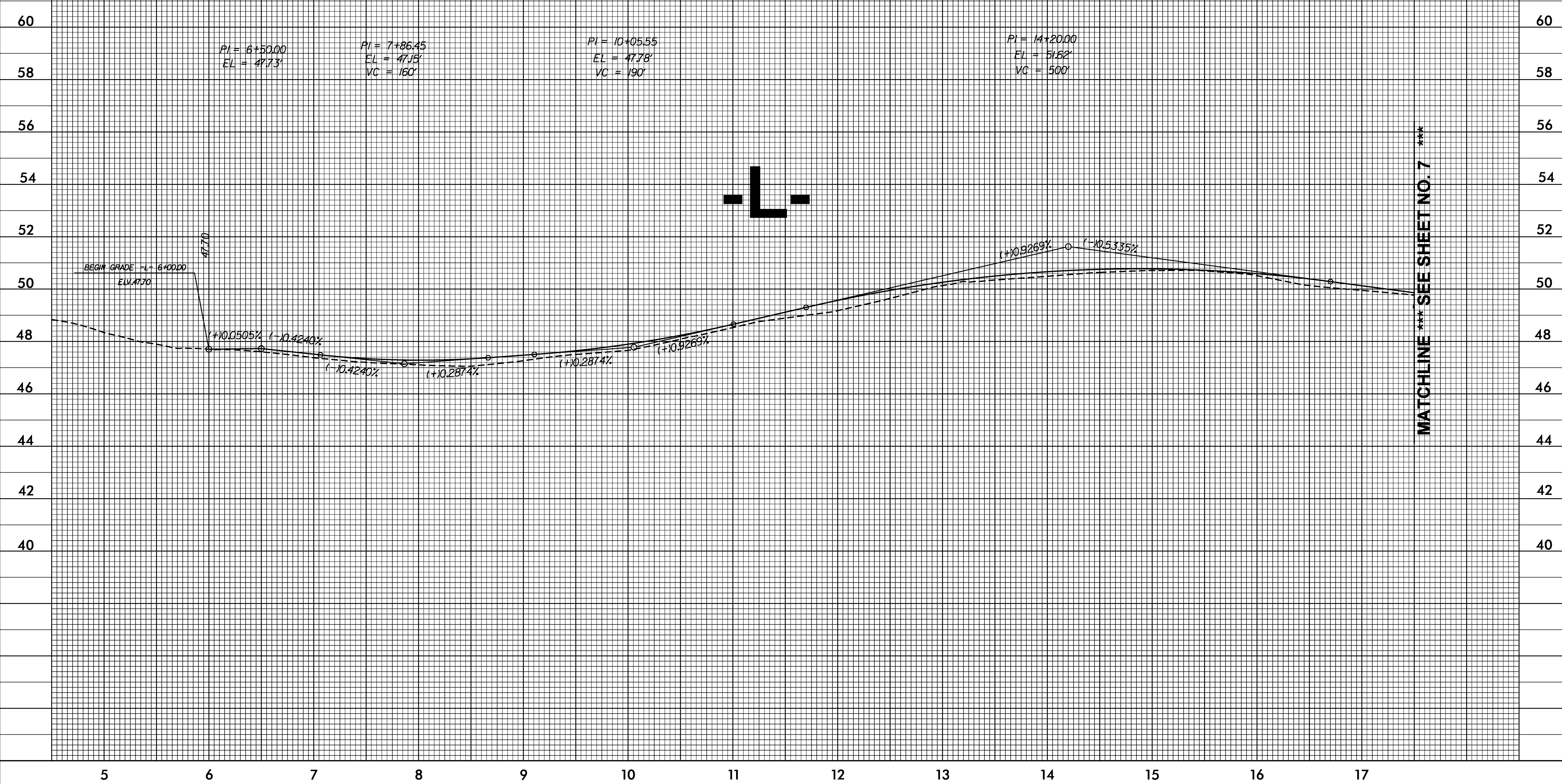
PROJECT REFERENCE NO. 31191	SHEET NO. 6
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 16710 DWAYNE H. ALLIGOOD 05/24/2012	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 16710 DWAYNE H. ALLIGOOD 05/24/2012

CONTROL POINT
L+71.71 RT 17.68
N= 192.35 4000
E= 20538.776
ELV. 46.74

CONTROL POINT
L+100.07 RT 25.60
N= 199.09 0740
E= 20942.040
ELV. 49.05

CONTROL POINT
L+74.83 RT 58.58
N= 20042.6220
E= 20088.5780
ELV. 50.05

SCALE: 1"=50' HORIZ.
1"= 2' VERT.

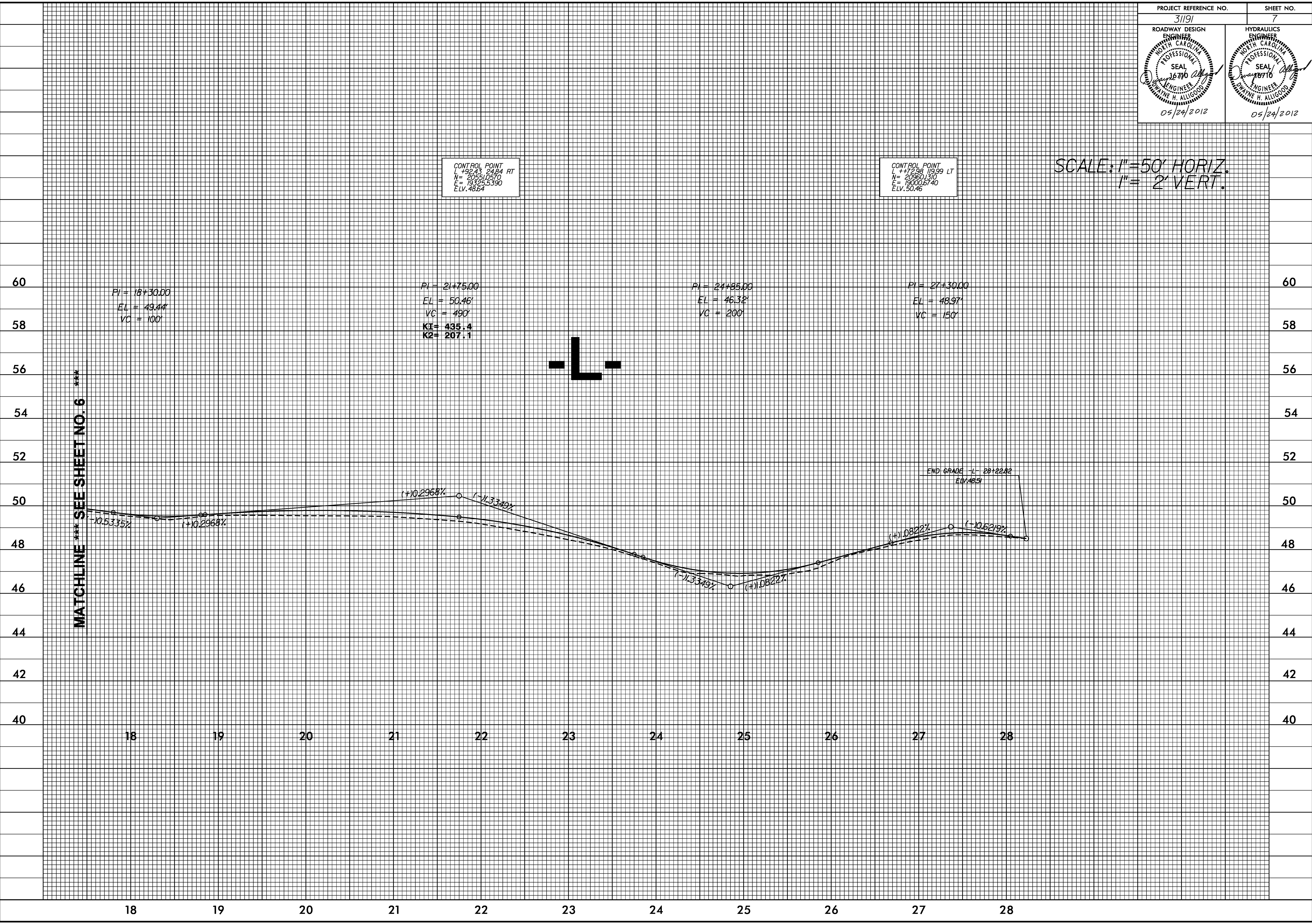


MATCHLINE *** SEE SHEET NO. 7 ***

5/14/99

PROJECT REFERENCE NO. 31191	SHEET NO. 7
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 16710 DWAYNE H. ALLEGOOD 05/24/2012	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 18710 DWAYNE H. ALLEGOOD 05/24/2012

30-MAY-2012 09:57
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impson_ddc2.psh_7.dgn



MATCHLINE *** SEE SHEET NO. 6 ***

SCALE: 1" = 50' HORIZ.
1" = 2' VERT.

CONTROL POINT
L = 19+23.24 RT
N = 20551.0570
E = 19325.5390
ELV. 48.64

CONTROL POINT
L = 24+72.98 LT
N = 20360.1310
E = 19000.6740
ELV. 50.46

PI = 18+30.00
EL = 49.44'
VC = 100'

PI = 21+75.00
EL = 50.46'
VC = 490'
KI = 435.4
K2 = 207.1

PI = 24+85.00
EL = 46.32'
VC = 200'

PI = 27+30.00
EL = 48.97'
VC = 150'

END GRADE -L- 28+22.82
ELV. 46.51

18 19 20 21 22 23 24 25 26 27 28

60 58 56 54 52 50 48 46 44 42 40

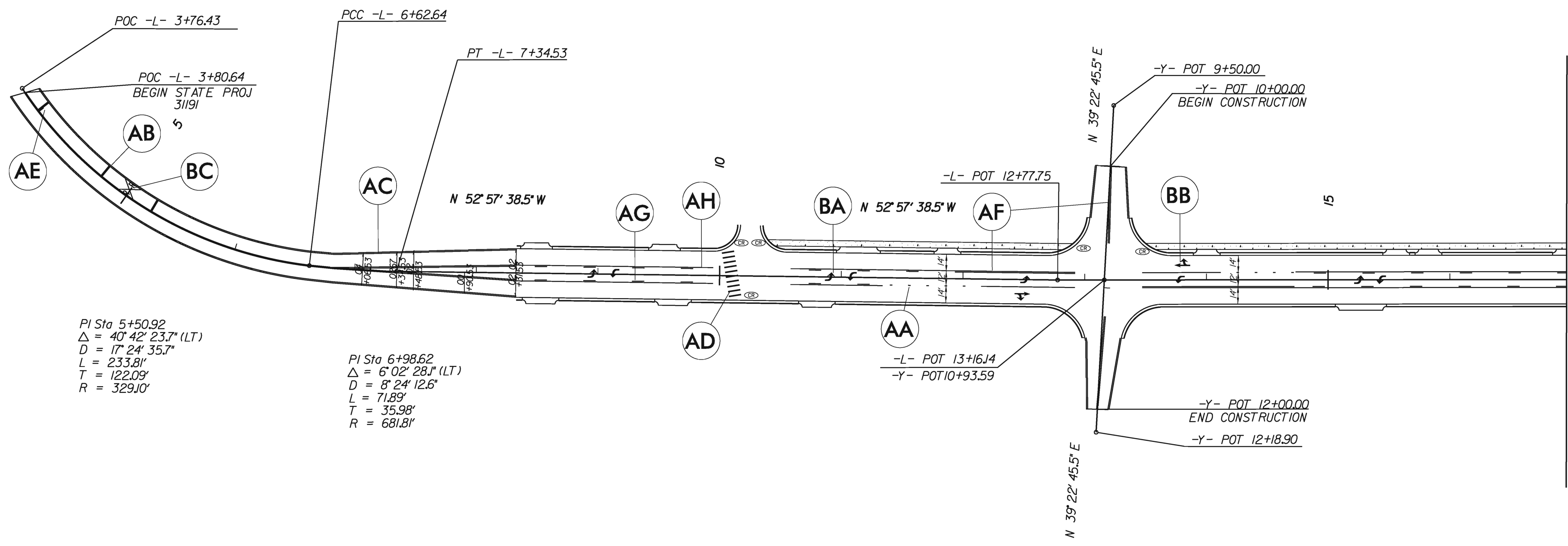
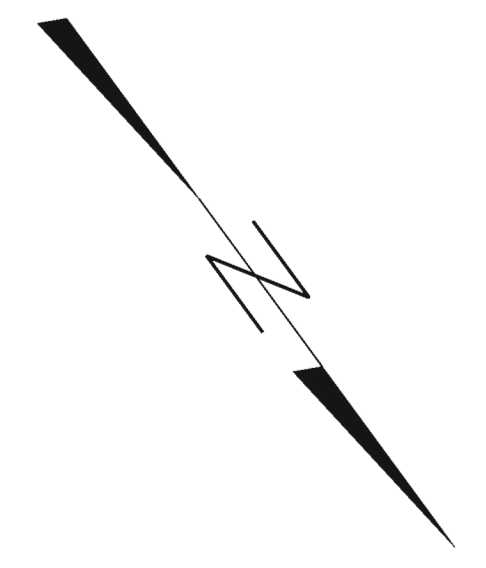
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES	
AA - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 2" MINISIP
AB - THERMOPLASTIC (24" WHITE, 120 MILS)	TRANSVERSE BAND
AC - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGE LINE
AD - THERMOPLASTIC (24" WHITE, 120 MILS)	CROSSWALK LINE
AE - THERMOPLASTIC (24" WHITE, 120 MILS)	STOP BAR
AF - THERMOPLASTIC (4" YELLOW, 120 MILS)	DOUBLE CENTER LINE
AG - THERMOPLASTIC (4" YELLOW, 120 MILS)	10' SKIP LINE
AH - THERMOPLASTIC (4" YELLOW, 120 MILS)	SOLID LANE LINE

PAVEMENT MARKING SYMBOLS	
BA - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)	
BB - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT TURN ARROW, 90 MILS)	
BC - THERMOPLASTIC (RAILROAD CROSSING SYMBOL, 90 MILS)	

NOTE

PAINT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM.



REVISIONS

8/17/99

30-MAY-2016 09:52
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MATCHLINE *** SEE SHEET NO. PM-2 ***

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

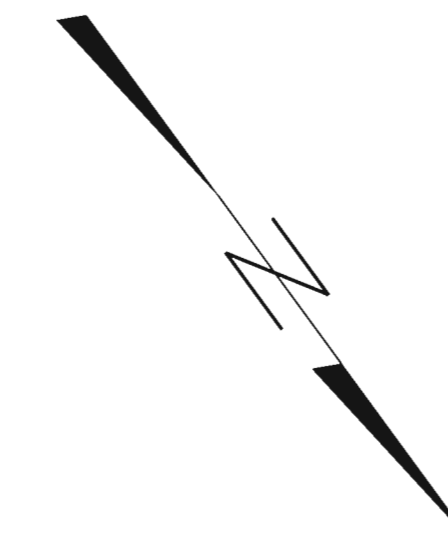
AA - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 2" MINI SKIP
AC - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGE LINE
AF - THERMOPLASTIC (4" YELLOW, 120 MILS)	DOUBLE CENTER LINE
AG - THERMOPLASTIC (4" YELLOW, 120 MILS)	10' SKIP LINE
AH - THERMOPLASTIC (4" YELLOW, 120 MILS)	SOLID LANE LINE
AI - THERMOPLASTIC (8" YELLOW, 90 MILS)	GORE LINE

PAVEMENT MARKING SYMBOLS

BA - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)

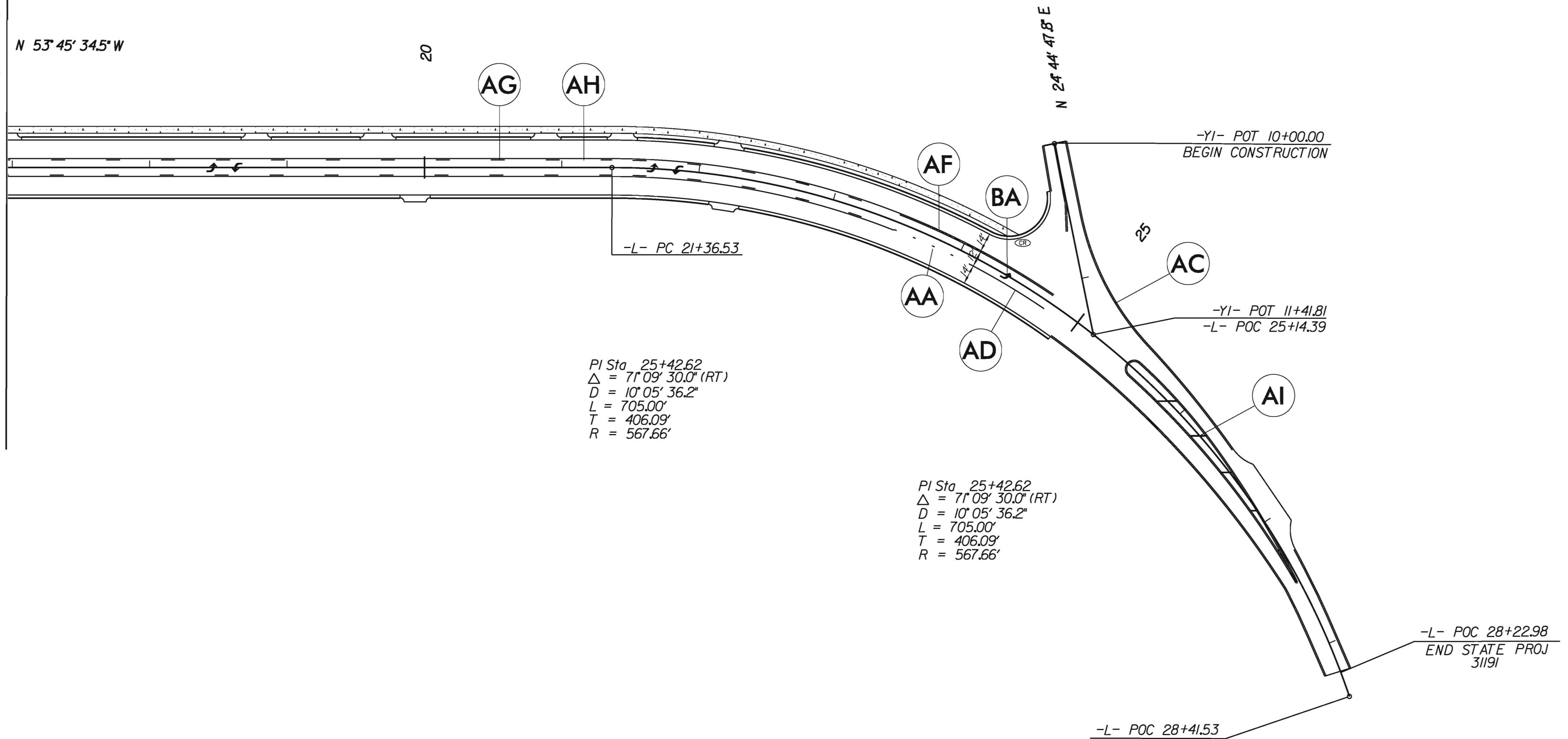
NOTE

PAINT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM.



REVISIONS

MATCHLINE *** SEE SHEET NO. PM-1 ***



8/17/99

30 MAY 2016 09:52
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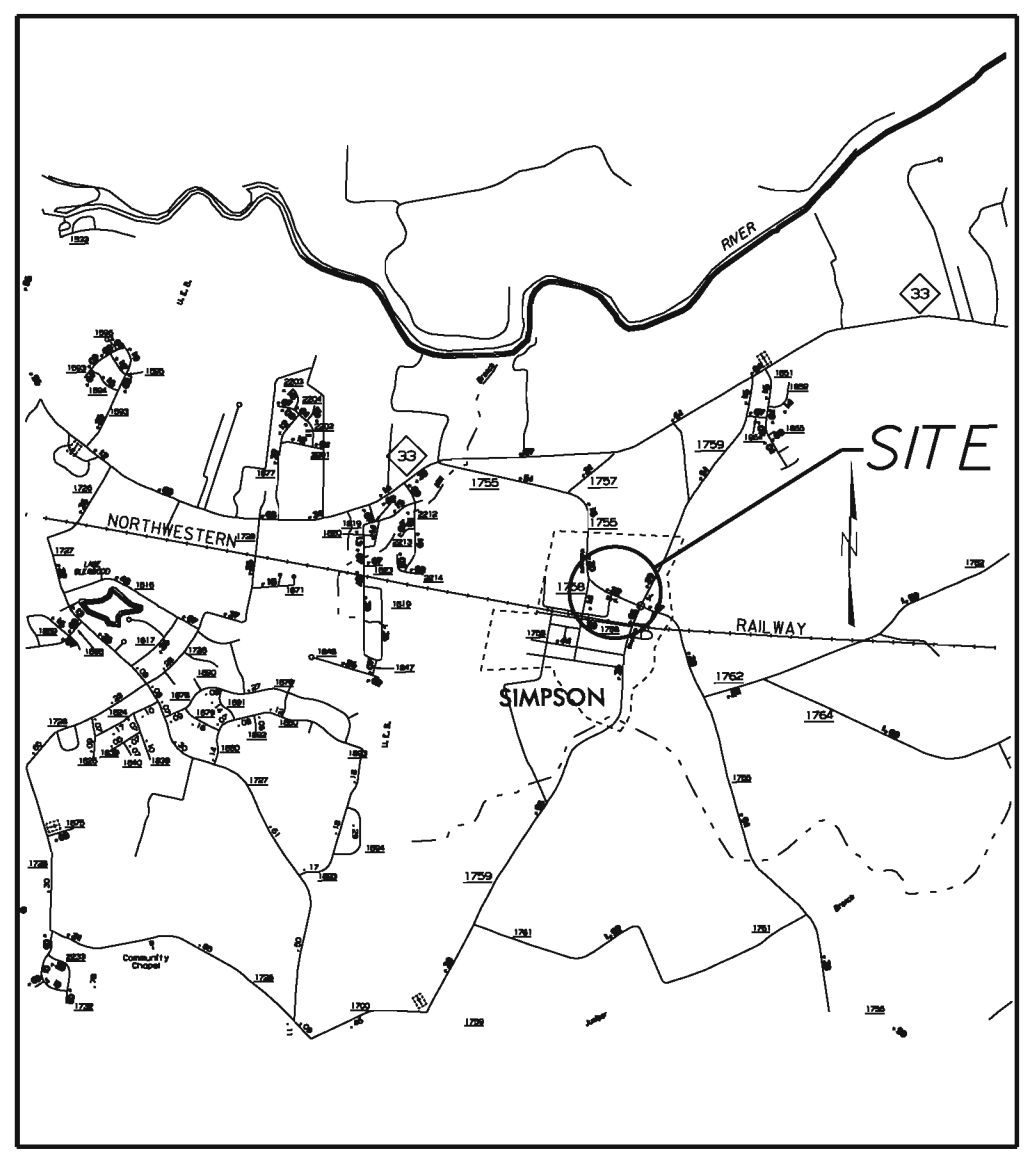
09/08/09

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE NO.	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	31191	EC-1	4
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

REVISED 2-10-2012: UPDATED FOR 2012 SPECIFICATIONS,
DELETED POLYACRYLAMIDE DETAIL.

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



VICINITY MAP

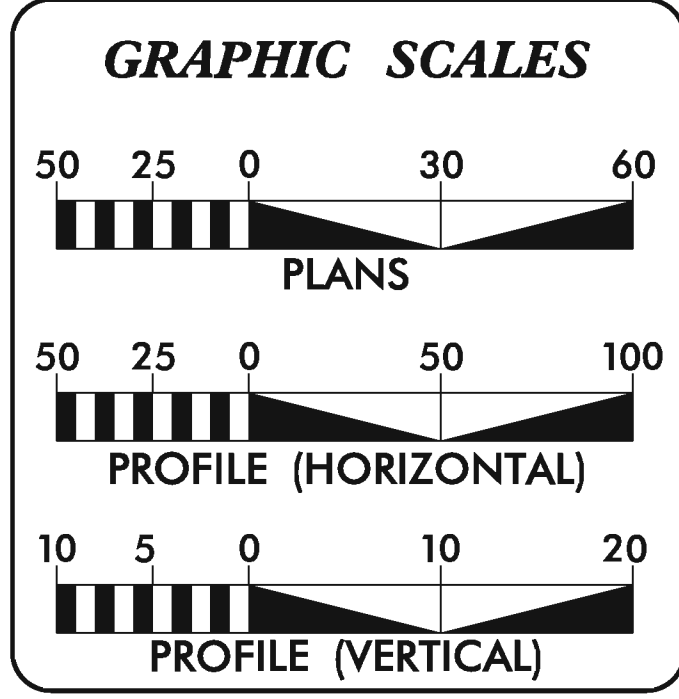
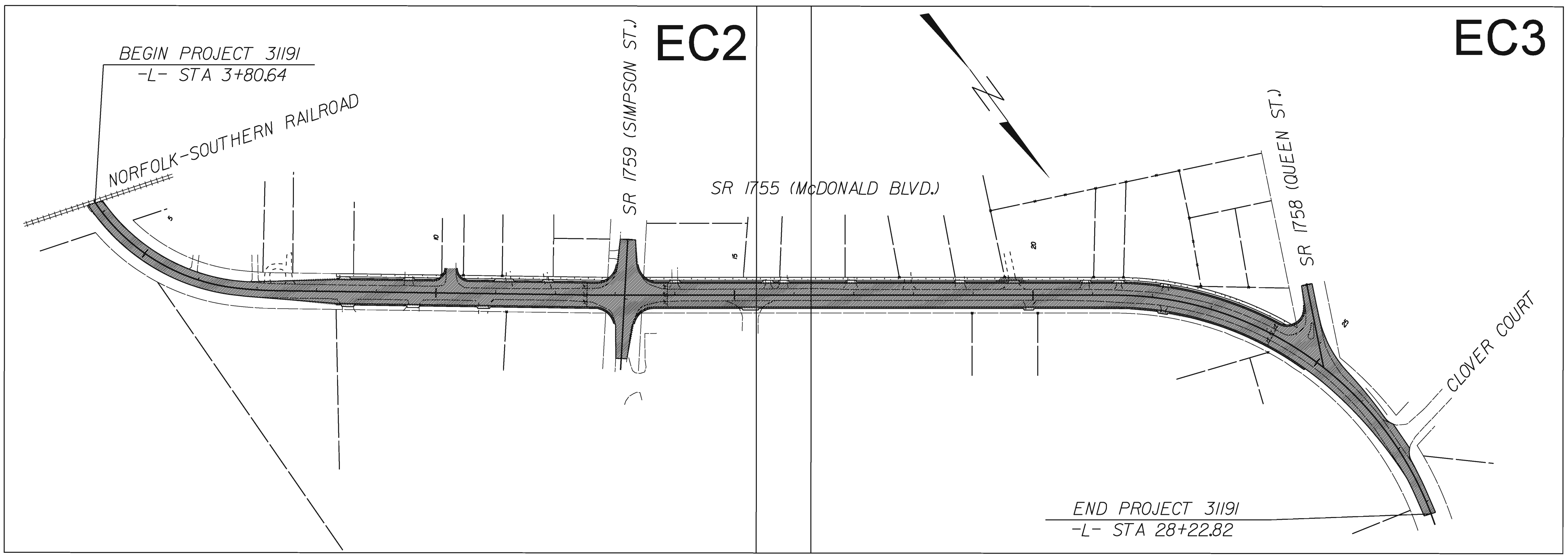
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△△△△△△
Rock Inlet Sediment Trap:		
1632.03	Type C	C □
SP	Wattle	⌋

PROJECT: 31191

CONTRACT:

CONTRACT:



DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY PROJECT -L- = 0.463 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
1704 N. GREENE ST., GREENVILLE NC, 27834

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DWAYNE ALLIGOOD
PROJECT ENGINEER

LETTING DATE: LANG JONES (#276)
PROJECT DESIGN ENGINEER

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated JANUARY, 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

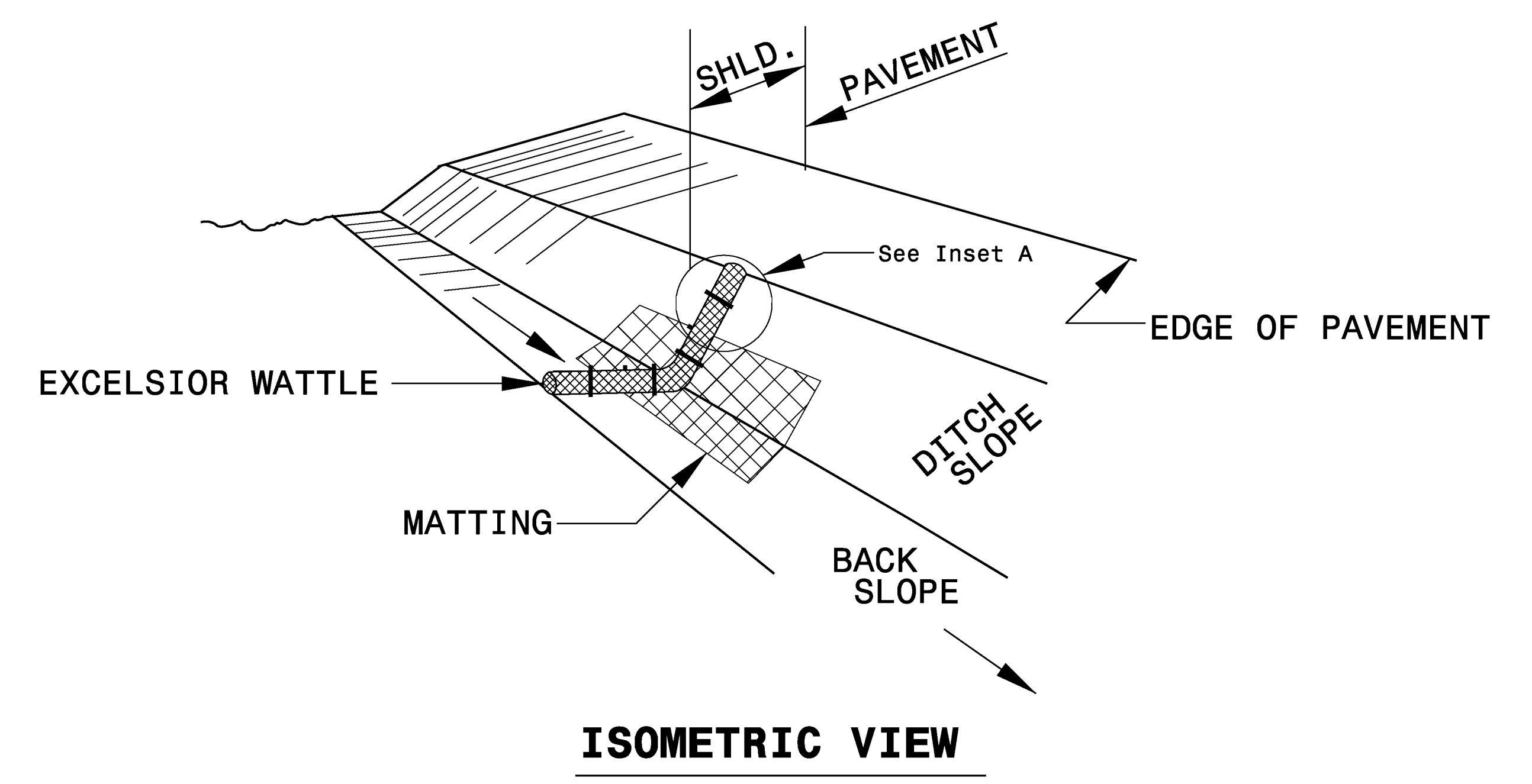
1604.01 Railroad Erosion Control Detail	1630.06 Special Stilling Basin
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B

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mackson AT D2CAD246301

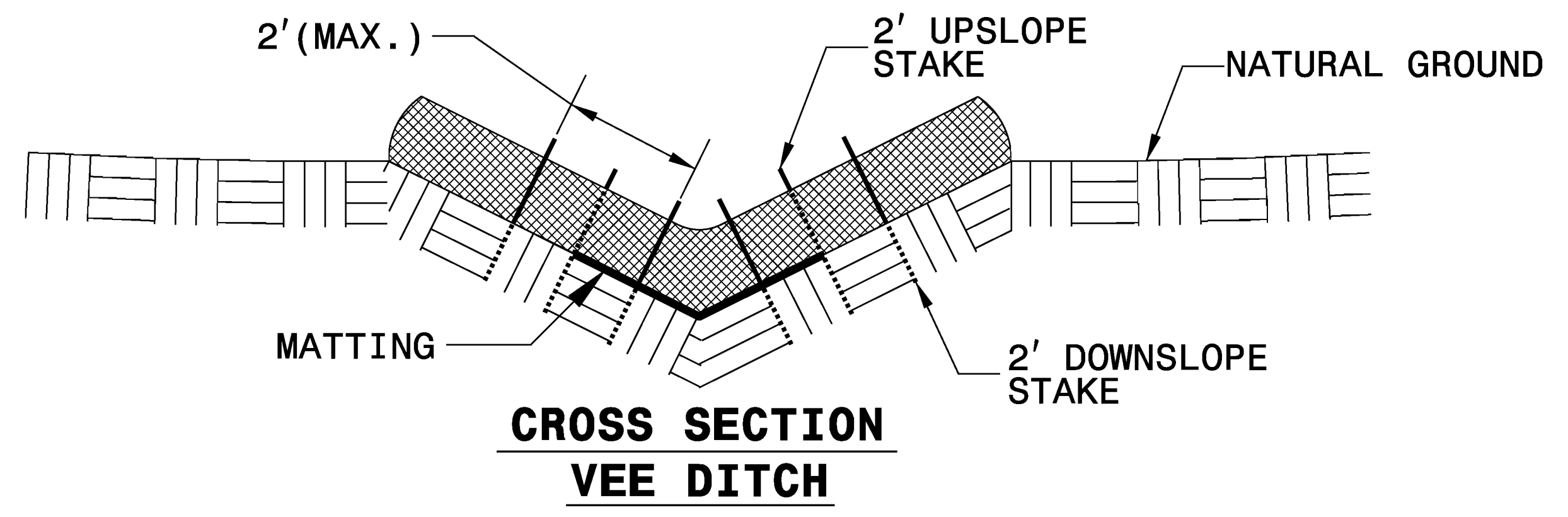
WATTLE DETAIL

NOTES:

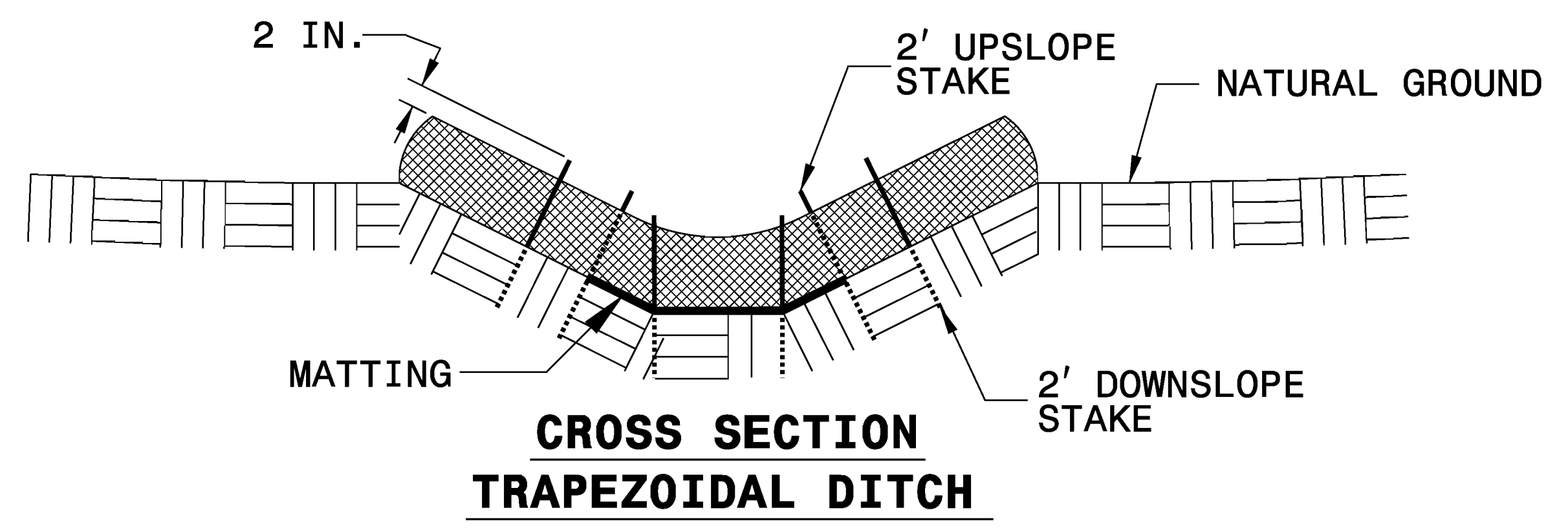
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



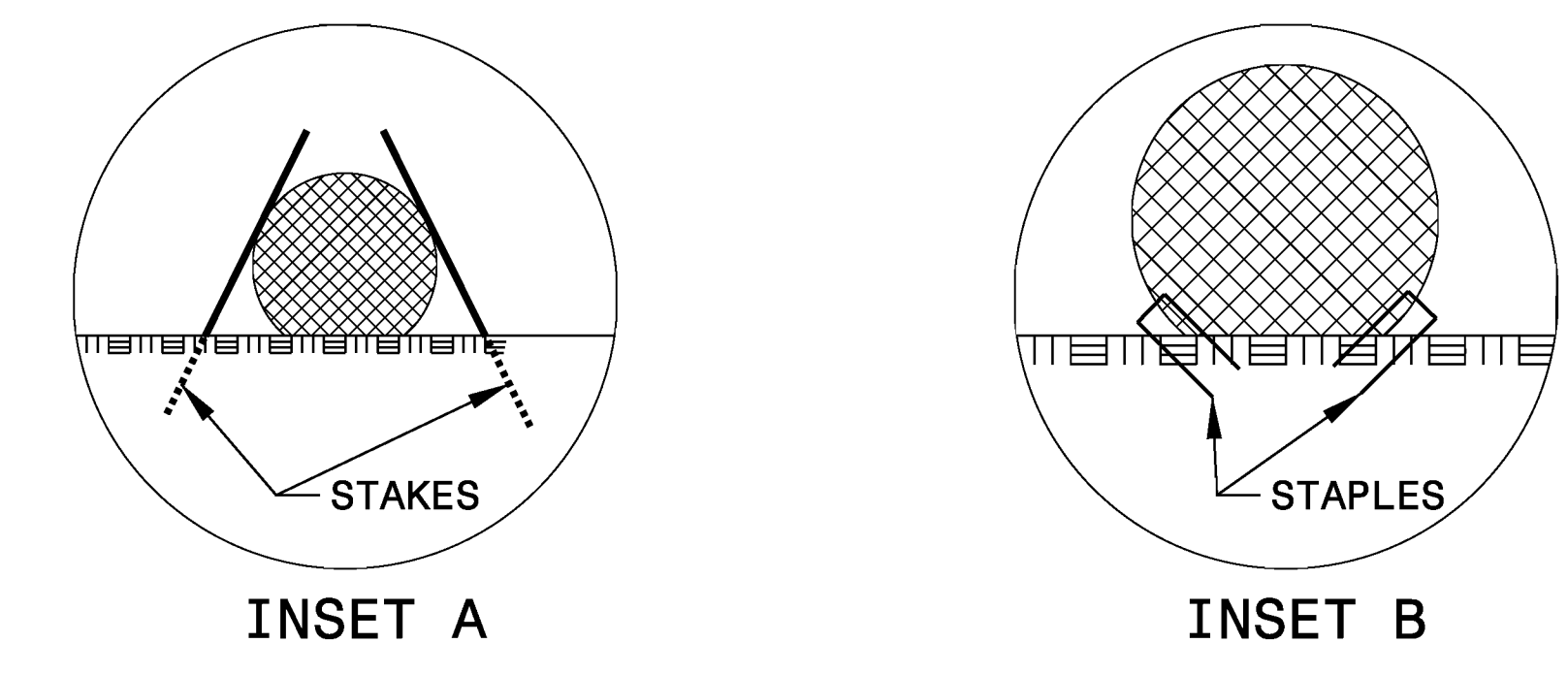
ISOMETRIC VIEW



CROSS SECTION VEE DITCH

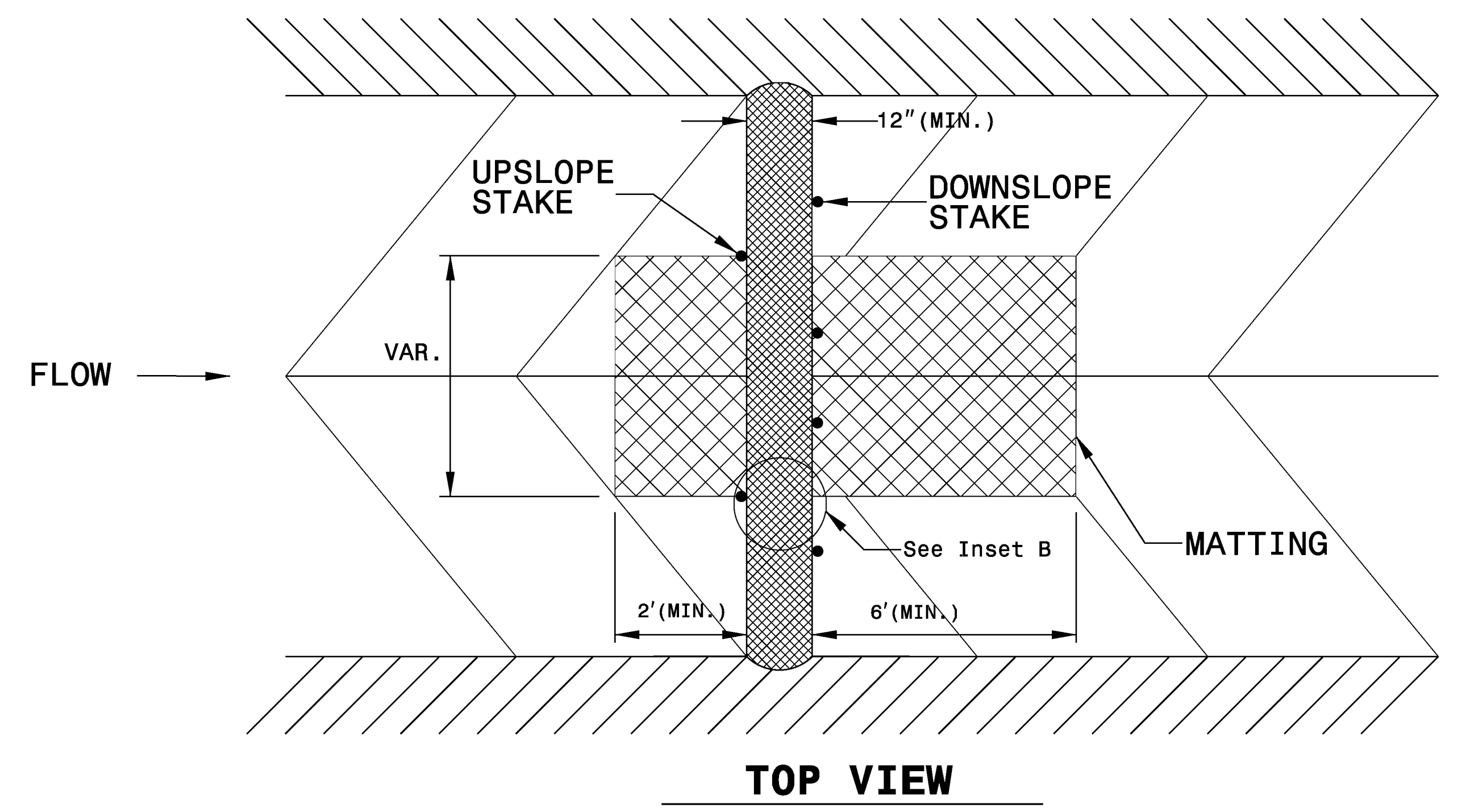


CROSS SECTION TRAPEZOIDAL DITCH



INSET A

INSET B



TOP VIEW

REVISIONS

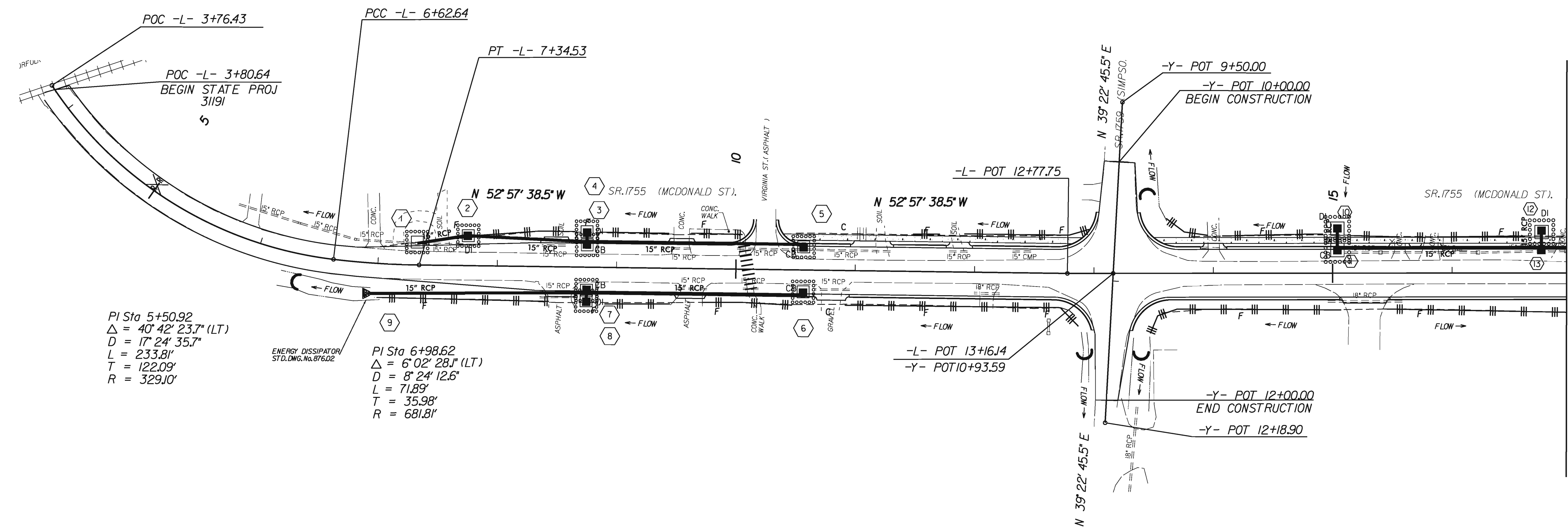
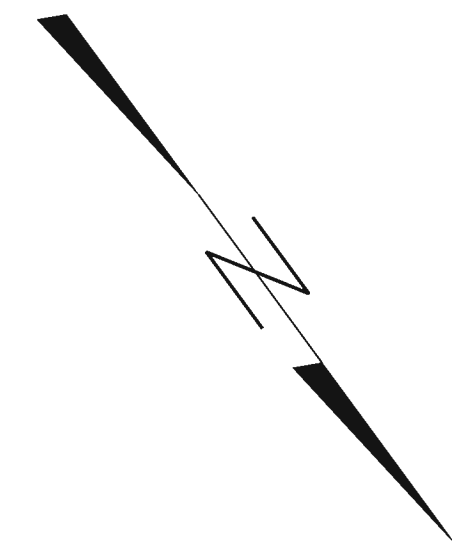
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 AT 11:20 AM 2/16/2012

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

Std. #	Description	Symbol
1605.01	High Vis Temporary Silt Fence	—
1632.03	Rock Inlet Sediment Trap Type C	
SP	Wattle	



PI Sta 5+50.92
 $\Delta = 40^\circ 42' 23.7"$ (LT)
 D = 17' 24" 35.7"
 L = 233.81'
 T = 122.09'
 R = 329.10'

ENERGY DISSIPATOR
 STD. DWG. No. 876.02

PI Sta 6+98.62
 $\Delta = 6^\circ 02' 28.1"$ (LT)
 D = 8' 24" 12.6"
 L = 71.89'
 T = 35.98'
 R = 681.81'

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

REVISIONS

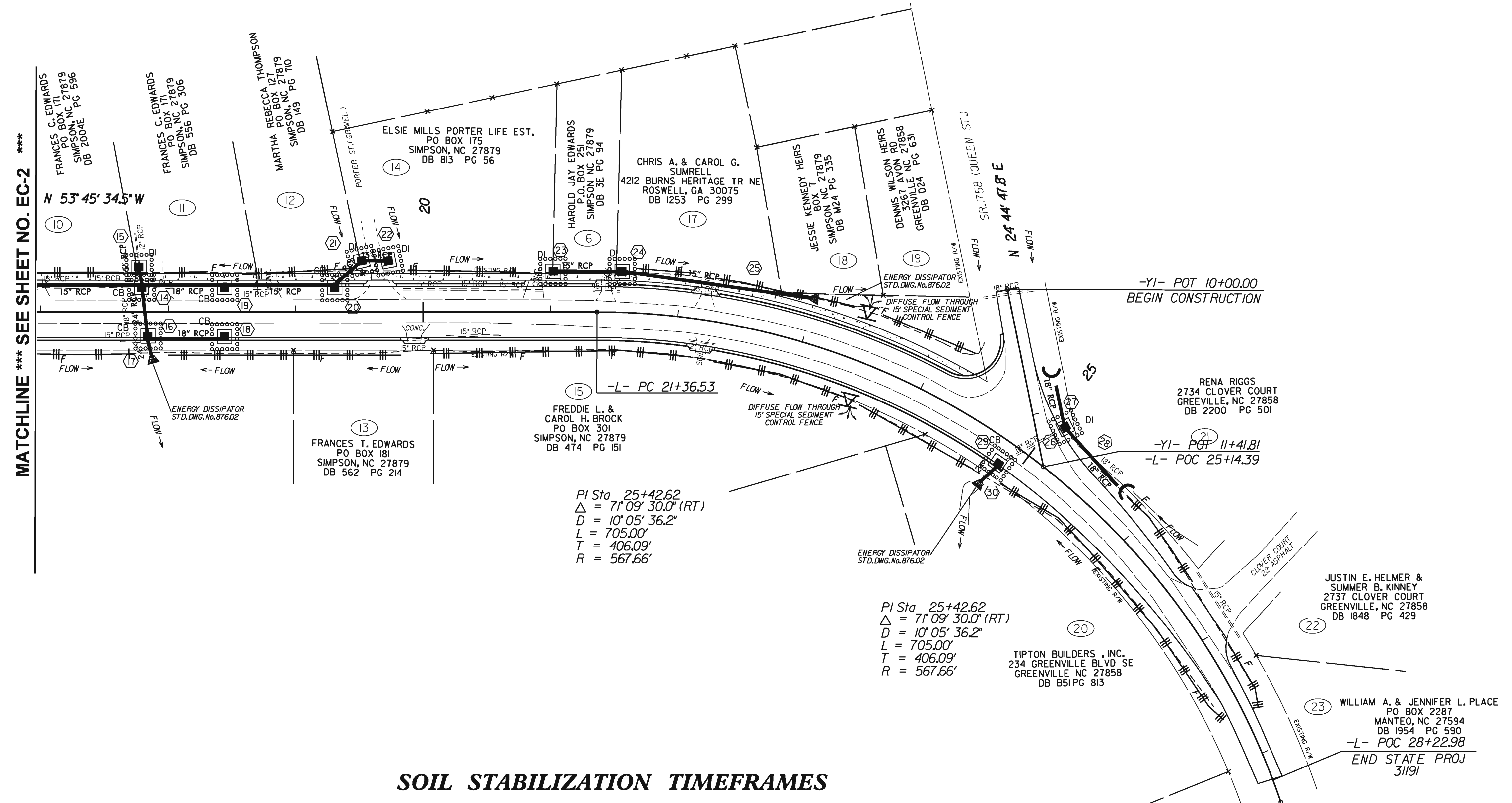
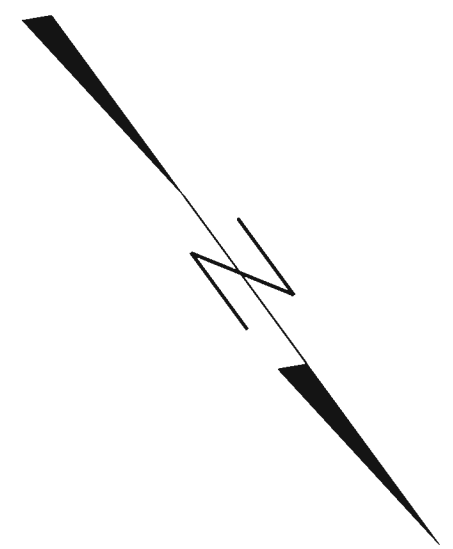
8/17/09

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 AT 11:26:24 (24)

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

Std. #	Description	Symbol
1605.01	High Vis Temporary Silt Fence	—
1606.01	Special Sediment Control Fence	—
1652.05	Rock Inlet Sediment Trap Type C	—
SP	Wattle	—



SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

REVISIONS

8/17/99

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 AT 11:20:24 AM

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

NOTE: Approximate quantities only. Unclassified excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Removal of Existing Pavement and Breaking of Existing Pavement will be paid for at the contract Lump Sum price for "Grading".

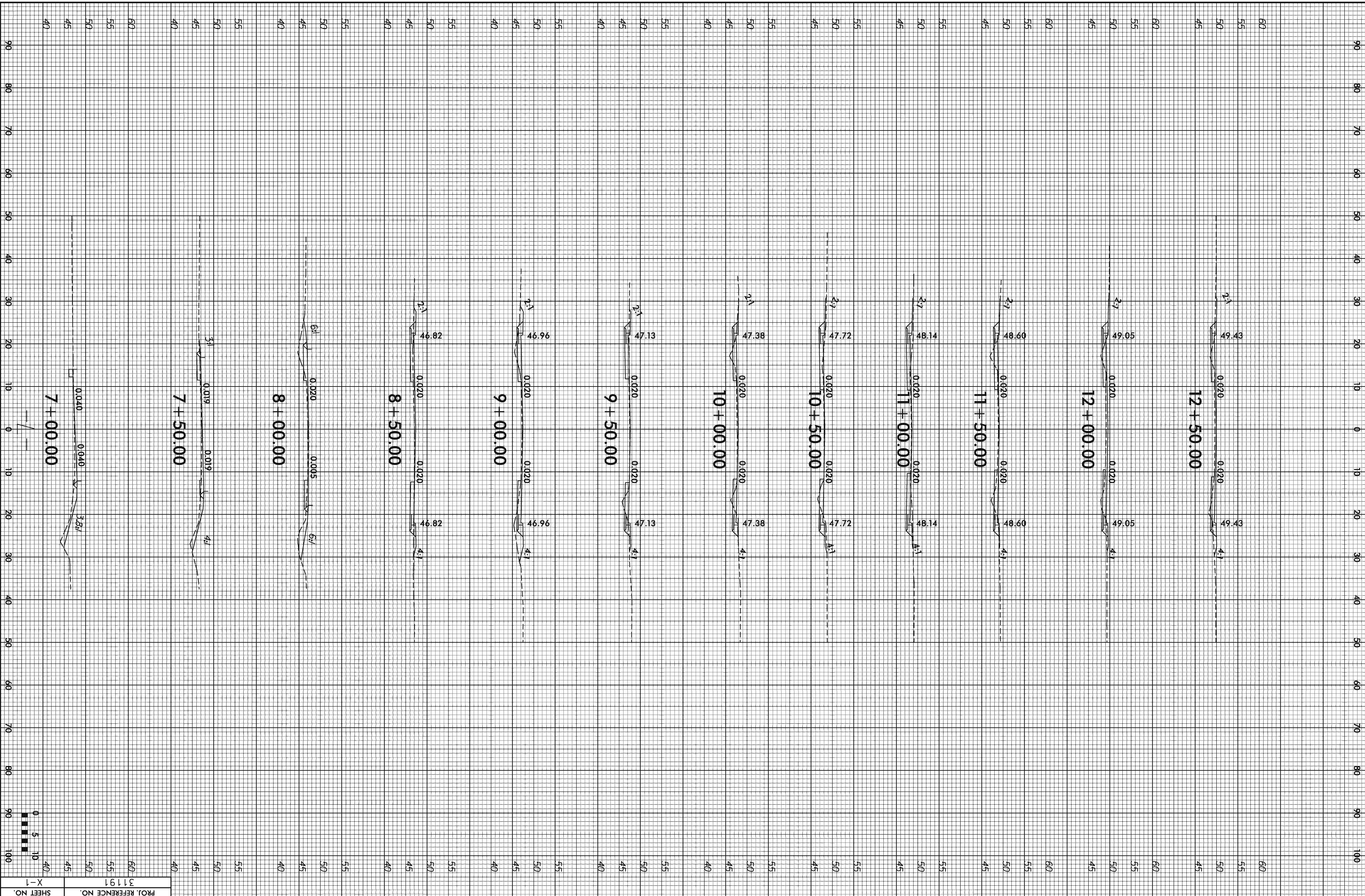
CROSS-SECTION SUMMARY

IN CUBIC YARDS

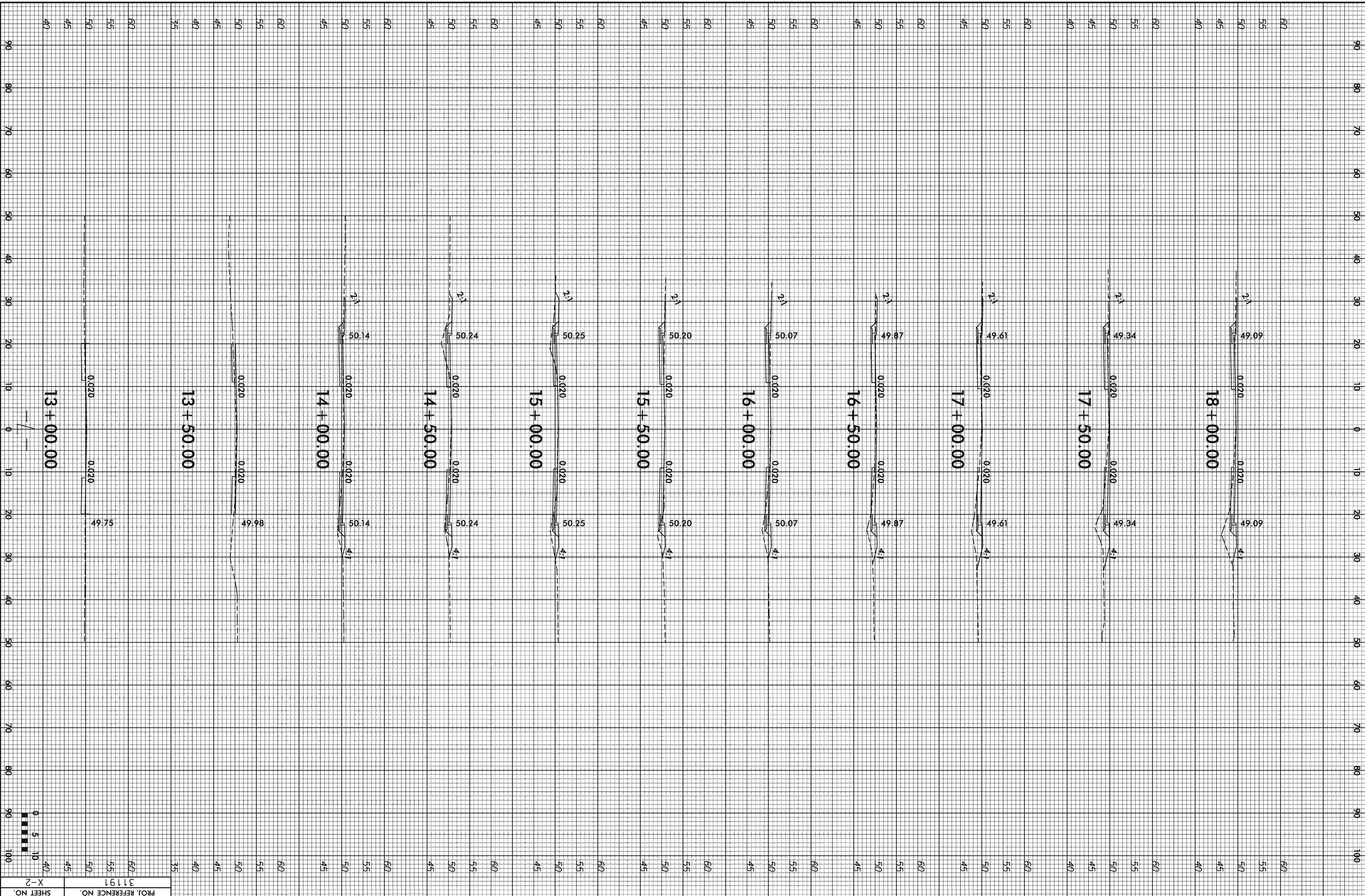
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
7+00.00	0		0
7+50.00	7		17
8+00.00	9		27
8+50.00	22		23
9+00.00	22		17
9+50.00	21		17
10+00.00	31		5
10+50.00	39		3
11+00.00	58		1
11+50.00	49		3
12+00.00	30		6
12+50.00	26		7
13+00.00	25		5
13+50.00	23		0
14+00.00	25		7
14+50.00	22		20
15+00.00	17		29
15+50.00	37		22
16+00.00	45		14
16+50.00	34		20
17+00.00	29		28
17+50.00	29		36
18+00.00	32		39
18+50.00	27		36
19+00.00	20		36
19+50.00	19		41
20+00.00	31		28
20+50.00	40		12
21+00.00	24		16
21+50.00	14		20
22+00.00	15		29
22+50.00	13		49
23+00.00	12		60
23+50.00	14		53
24+00.00	16		54
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25+00.00	17		37
25+50.00	17		14
26+00.00	18		4

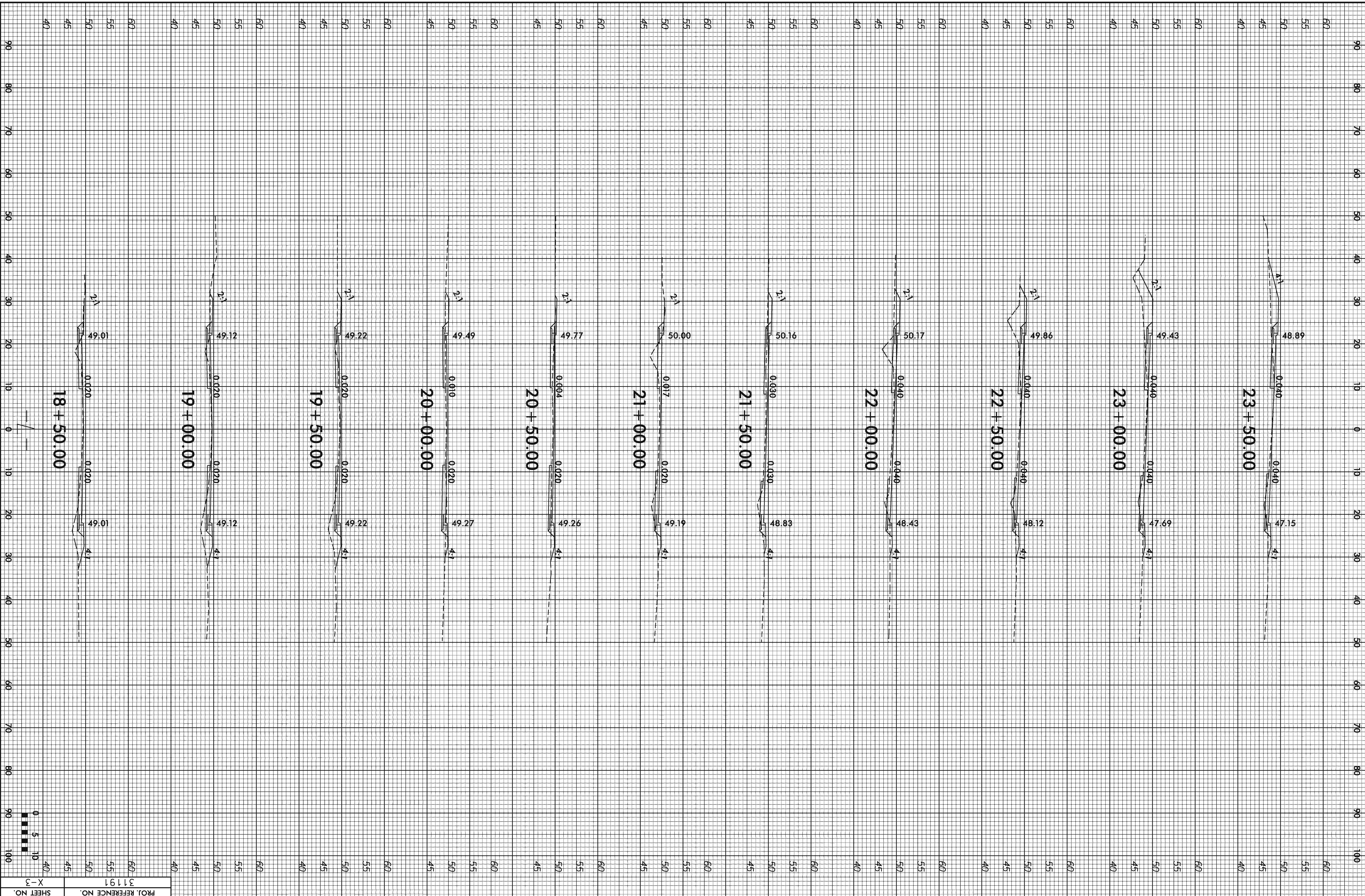
LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
26+50.00	18		5
27+00.00	12		4
27+50.00	6		3



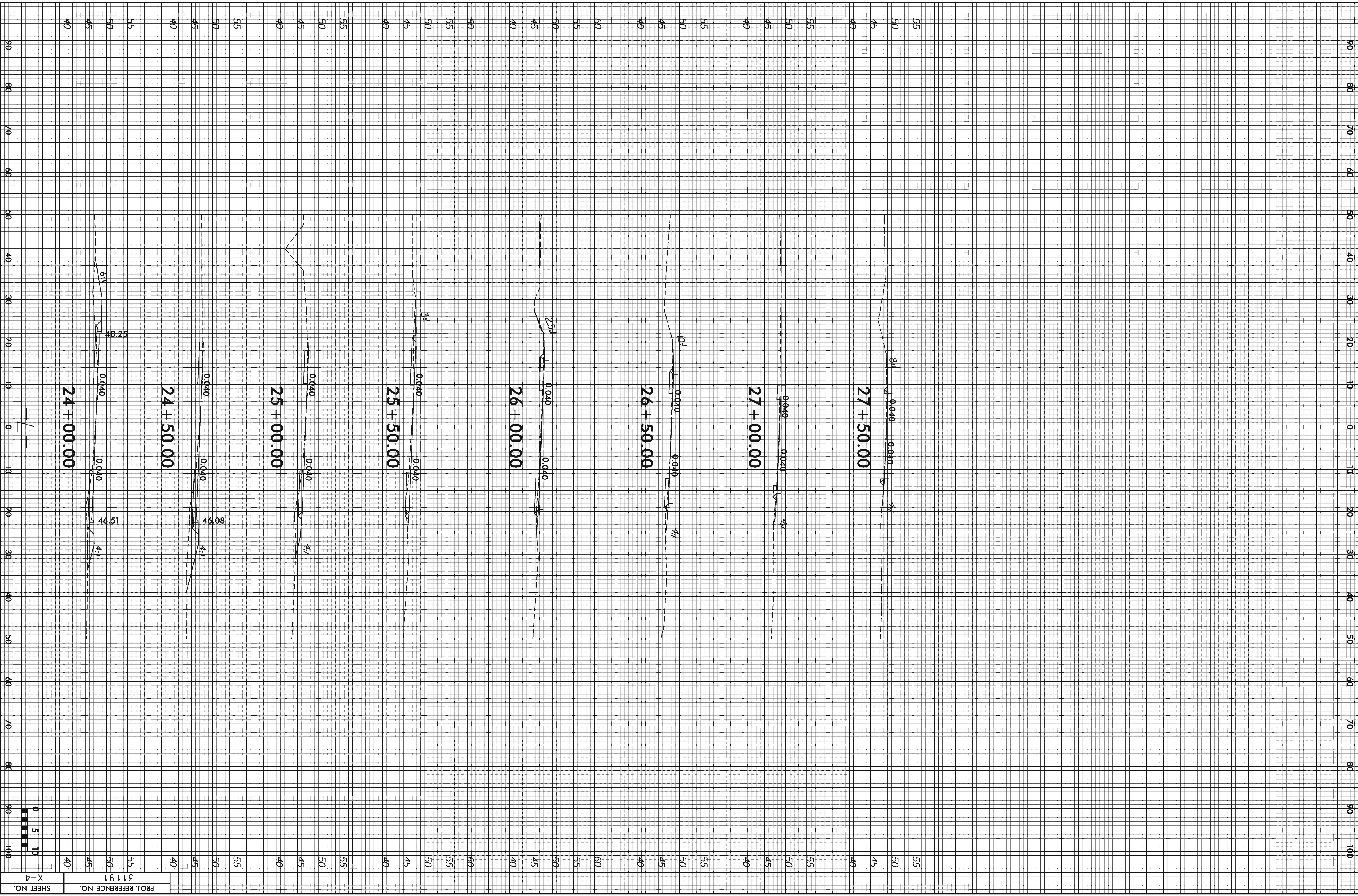
PROJ. REFERENCE NO. U1191
 SHEET NO. X-11



PROJ. REFERENCE NO. U1191
 SHEET NO. X-2



PROJ. REFERENCE NO. U1191
SHEET NO. X-3



PROJ. REFERENCE NO. 31191
 SHEET NO. X-14