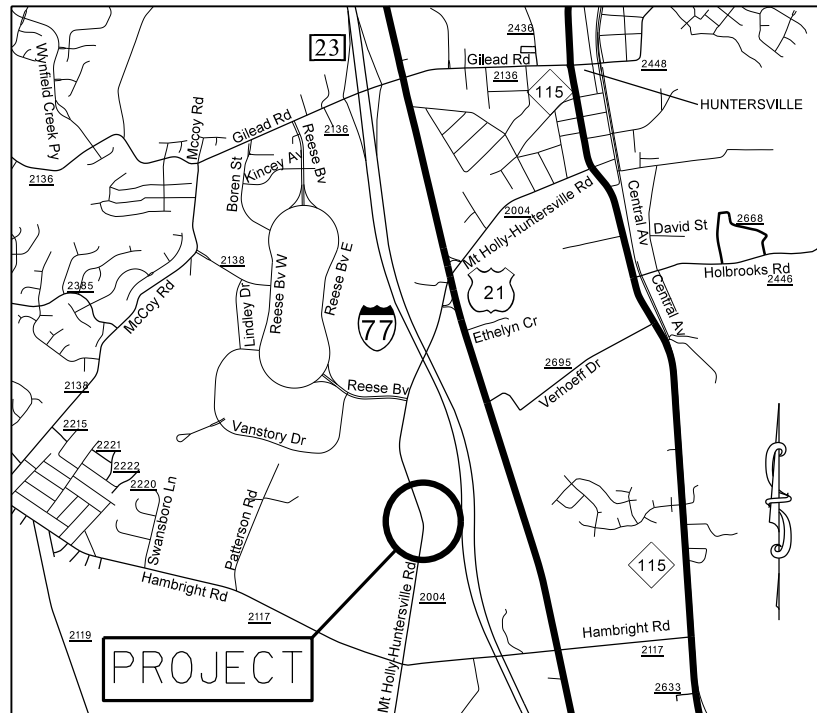


**PROJECT: 44536**

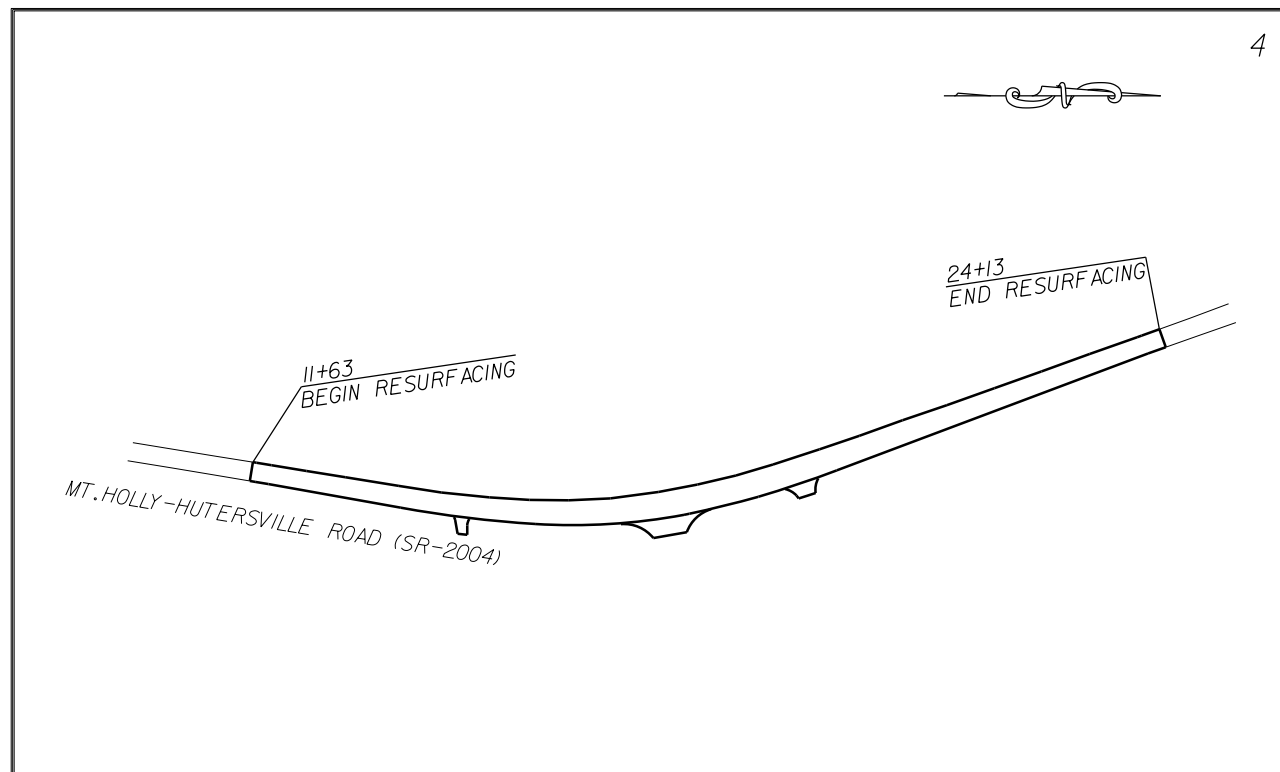


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**MECKLENBURG COUNTY**

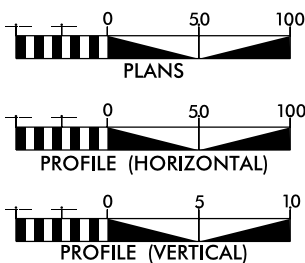
**LOCATION:** LEFT TURN LANE ON MT. HOLLY-HUNTERSVILLE ROAD (SR-2004)  
 AT NUTEC INC.

**TYPE OF WORK:** GRADING, PAVING, DRAINAGE,  
 THERMOPLASTIC PAVEMENT MARKING.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44536	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
44536		P.E.	
44536		R/W	
44536		CONST.	

**GRAPHIC SCALES**



**DESIGN DATA**

ADT \_\_\_\_\_ = \_\_\_\_\_  
 ADT \_\_\_\_\_ = \_\_\_\_\_  
 DHV = \_\_\_\_\_ %  
 D = \_\_\_\_\_ %  
 T = \_\_\_\_\_ %  
 V = \_\_\_\_\_ MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 44536 = .24 MILES  
 TOTAL LENGTH OF STATE PROJECT 44536 = .24 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 DIVISION TEN  
 DIVISION DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:

RANDY BOWERS  
 PROJECT ENGINEER

LETTING DATE:  
 MAY 18, 2016

DONALD HARWARD  
 PROJECT DESIGN ENGINEER

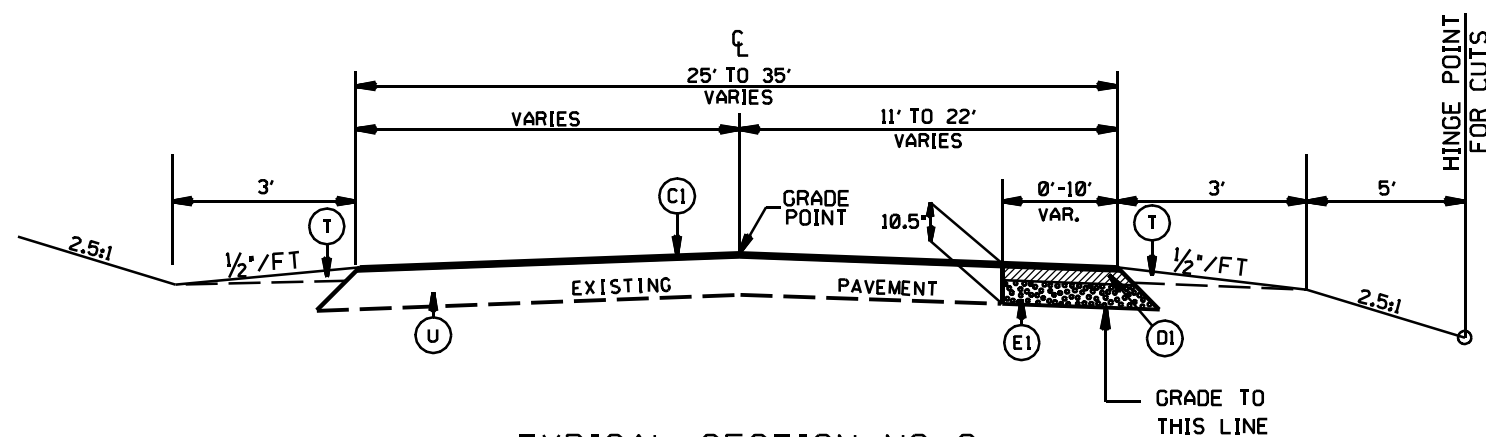


DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

DocuSigned by:  
 Randy Bowers 4/22/2016

52A4A66079864B2...  
 APPROVED BY DATE  
 DDC ENGINEER

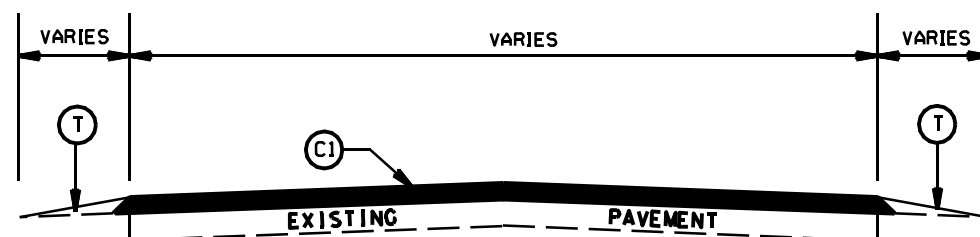
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	44536	2	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 2  
STA. 11+88.00 TO 23+88.00 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT



TYPICAL SECTION NO. 1  
STA. 11+63.00 TO 11+88.00 -L-  
STA. 23+88.00 TO 24+13.00 -L-

LEFT TURN LANE ON MT. HOLLY-HUNTERSVILLE ROAD (SR-2004) AT NUTEC INC.

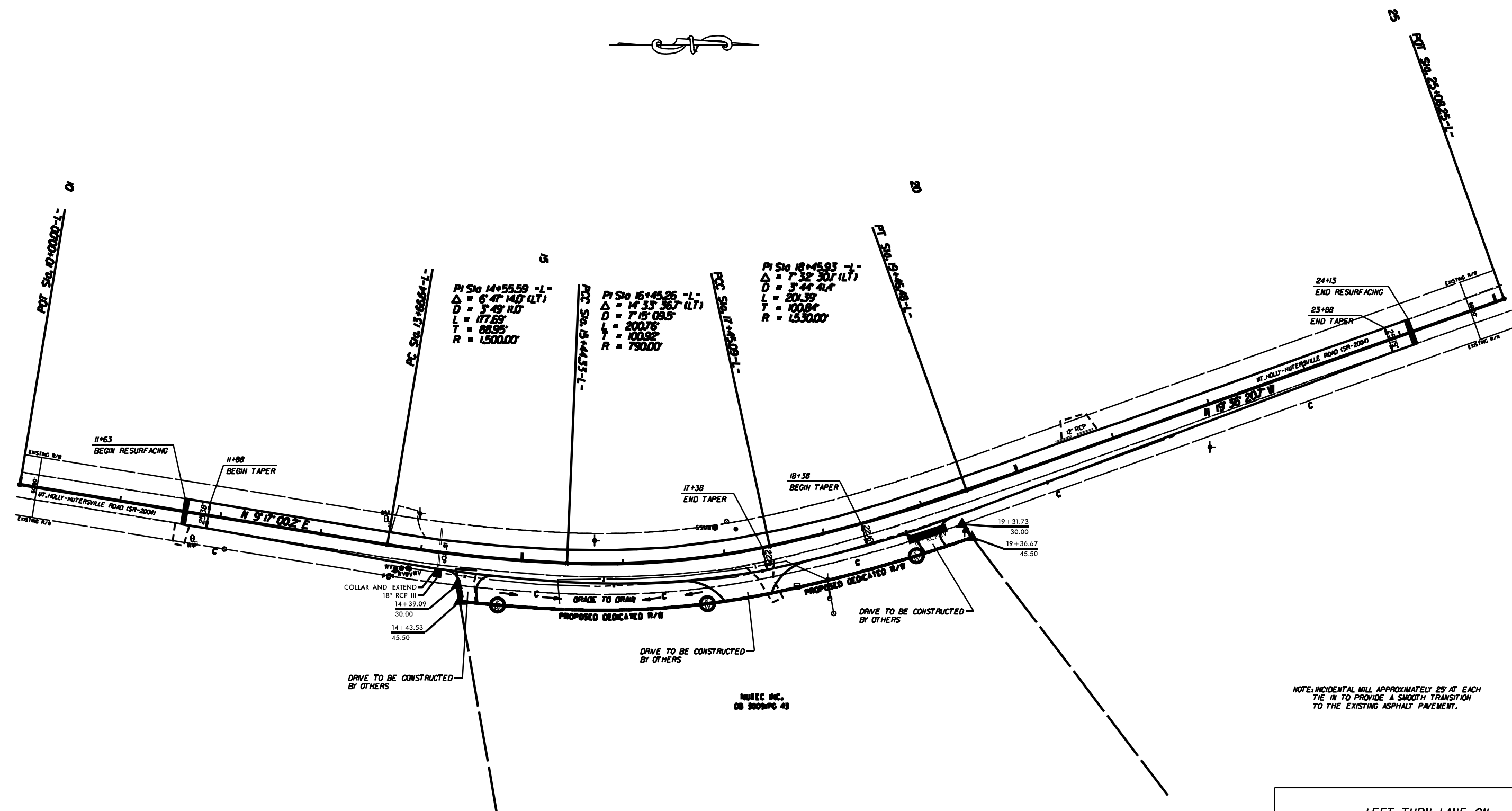
SCALE -NA-  
DATE MAR 2016  
DWG. BY TBL  
DESIGN BY JCH  
APPROVED RWB



REVISIONS




STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	44536	4	
F.A. PROJECT NO.			



COLLAR AND EXTEND  
18" RCP-III  
14+39.09  
30.00  
14+43.53  
45.50

DRIVE TO BE CONSTRUCTED BY OTHERS

DRIVE TO BE CONSTRUCTED BY OTHERS

NUTEC INC.  
DB 3009PG 43

NOTE: INCIDENTAL MILL APPROXIMATELY 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

**LEFT TURN LANE ON  
MT. HOLLY-HUNTERSVILLE RD. (SR-2004)  
AT NUTEC, INC.**

SCALE	1"=50'		REVISIONS
DATE	3-2016		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	44536	PMP-1	
F.A. PROJECT NO.			

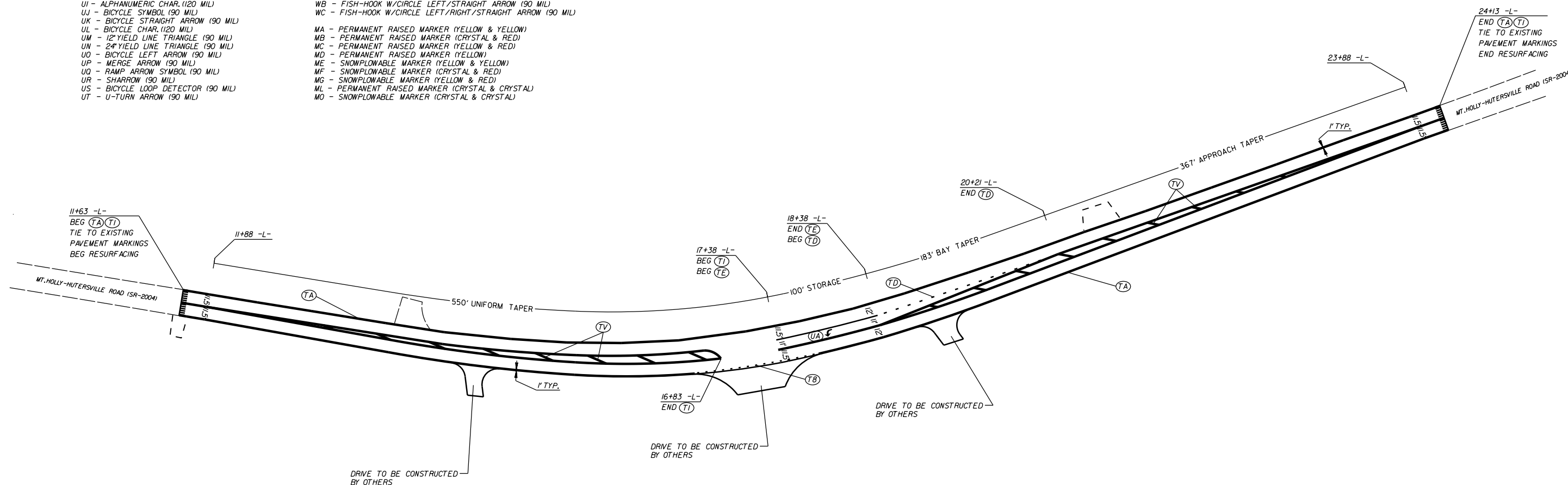
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- |  |   |
|--|---|
| TA - WHITE EDGELINE (4", 90 MIL)               | TU - WHITE DIAGONAL (12", 90 MIL)                             |
| TB - YELLOW EDGELINE (4", 90 MIL)              | TV - YELLOW DIAGONAL (12", 90 MIL)                            |
| TC - 10FT. WHITE SKIP (4", 120 MIL)            | T1 - WHITE LINE, RR X (16", 120 MIL)                          |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4", 120 MIL) | T2 - WHITE STOPBAR (24", 120 MIL)                             |
| TE - WHITE SOLID LANE LINE (4", 120 MIL)       | T3 - WHITE CROSSWALK LINE (24", 120 MIL)                      |
| TF - 10FT. YELLOW SKIP (4", 120 MIL)           | T4 - WHITE RUMBLE STRIP (4", 240 MIL)                         |
| TH - YELLOW SINGLE CENTER (4", 120 MIL)        | T5 - YELLOW RUMBLE STRIP (4", 240 MIL)                        |
| TI - YELLOW DOUBLE CENTER (4", 120 MIL)        | T6 - WHITE EDGELINE (6", 90 MIL)                              |
| TJ - 10FT. WHITE SKIP (6", 120 MIL)            | T7 - YELLOW EDGELINE (6", 90 MIL)                             |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6", 120 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4", 120 MIL)                |
| TL - WHITE SOLID LANE LINE (6", 120 MIL)       | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4", 120 MIL)               |
| TM - 10FT. YELLOW SKIP (6", 120 MIL)           | T10 - 3FT.-3FT./SP WHITE MINISKIP (12", 120 MIL)              |
| TN - WHITE GORELINE (8", 90 MIL)               | T11 - 2FT.-6FT./SP WHITE MINISKIP (6", 120 MIL)               |
| TO - WHITE DIAGONAL (8", 90 MIL)               | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6", 120 MIL)              |
| TP - YELLOW DIAGONAL (8", 90 MIL)              | T13 - 3FT.-9FT./SP WHITE MINISKIP (8", 120 MIL)               |
| TQ - WHITE CROSSWALK LINE (8", 120 MIL)        | T14 - 3FT.-9FT./SP WHITE MINISKIP (12", 120 MIL)              |
| TR - WHITE SOLID LANE LINE (8", 120 MIL)       | T15 - YELLOW SINGLE CENTER (6", 120 MIL)                      |
| TS - WHITE GORELINE (12", 90 MIL)              | T16 - YELLOW DOUBLE CENTER (6", 120 MIL)                      |
| TT - WHITE SOLID LANE LINE (12", 120 MIL)      | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8", 120 MIL) |

PAVEMENT MARKING SYMBOLS

- |  |  |
|--|--|
| UA - LEFT TURN ARROW (90 MIL)                  | UU - FISH-HOOK STRAIGHT ARROW (90 MIL)                     |
| UB - RIGHT TURN ARROW (90 MIL)                 | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)                |
| UC - STRAIGHT ARROW (90 MIL)                   | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)               |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)       | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)                   |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)      | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)          |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL)          | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)            |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |  |
| UH - HANDICAP PARKING (90 MIL)                 | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)                |
| UI - ALPHANUMERIC CHAR. (120 MIL)              | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)       |
| UJ - BICYCLE SYMBOL (90 MIL)                   | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL)           |  |
| UL - BICYCLE CHAR. (120 MIL)                   | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)             |
| UM - 12" YIELD LINE TRIANGLE (90 MIL)          | MB - PERMANENT RAISED MARKER (CRYSTAL & RED)               |
| UN - 24" YIELD LINE TRIANGLE (90 MIL)          | MC - PERMANENT RAISED MARKER (YELLOW & RED)                |
| UO - BICYCLE LEFT ARROW (90 MIL)               | MD - PERMANENT RAISED MARKER (YELLOW)                      |
| UP - MERGE ARROW (90 MIL)                      | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)                 |
| UQ - RAMP ARROW SYMBOL (90 MIL)                | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)                   |
| UR - SHARROW (90 MIL)                          | MG - SNOWPLOWABLE MARKER (YELLOW & RED)                    |
| US - BICYCLE LOOP DETECTOR (90 MIL)            | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)           |
| UT - U-TURN ARROW (90 MIL)                     | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)               |



LEFT TURN LANE ON  
MT. HOLLY-HUNTERSVILLE RD. (SR-2004)  
AT NUTEC, INC.

SCALE	1"=50'		REVISIONS	
DATE	3-2016			
DWG. BY	DLS			
DESIGN BY	JDH			
APPROVED	RWB			



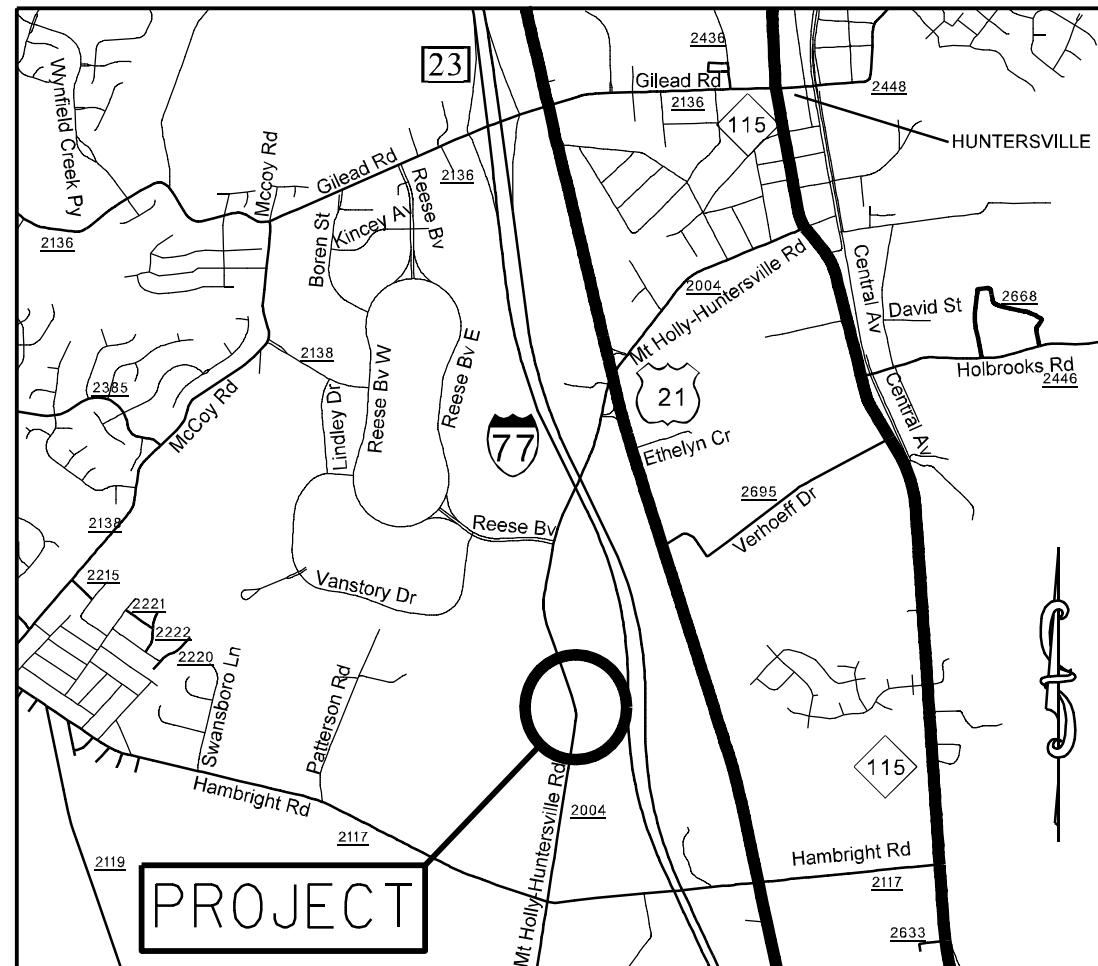
**TIP PROJECT: 44536**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44536	BC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

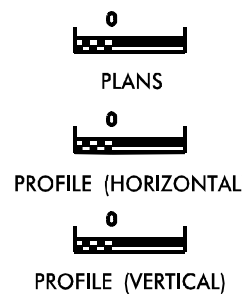
Sta.	Description	Symbol
1630.05	Temporary Silt Ditch	
1630.06	Temporary Diversion	
1606.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.05	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



VICINITY MAP NOT TO SCALE

THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.

**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
WITH THE REGULATIONS SET FORTH BY THE  
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2012 STANDARD SPECIFICATIONS**

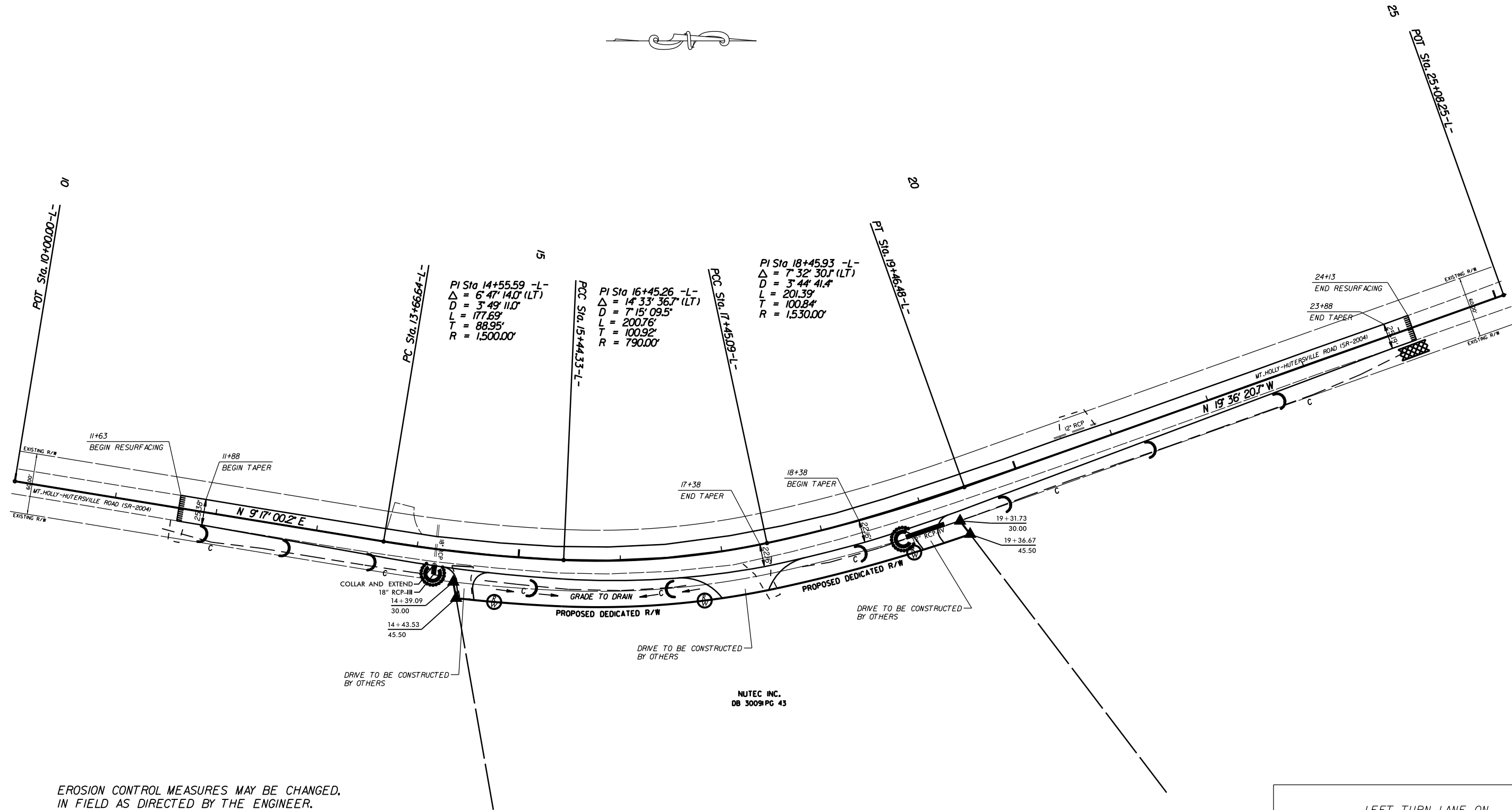
Designed by  
**TRAVIS LOWDER** 3742  
NAME LEVEL III CERTIFICATION NO.

**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	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	44536	EC-2	
F.A. PROJECT NO.			



EROSION CONTROL MEASURES MAY BE CHANGED,  
IN FIELD AS DIRECTED BY THE ENGINEER.

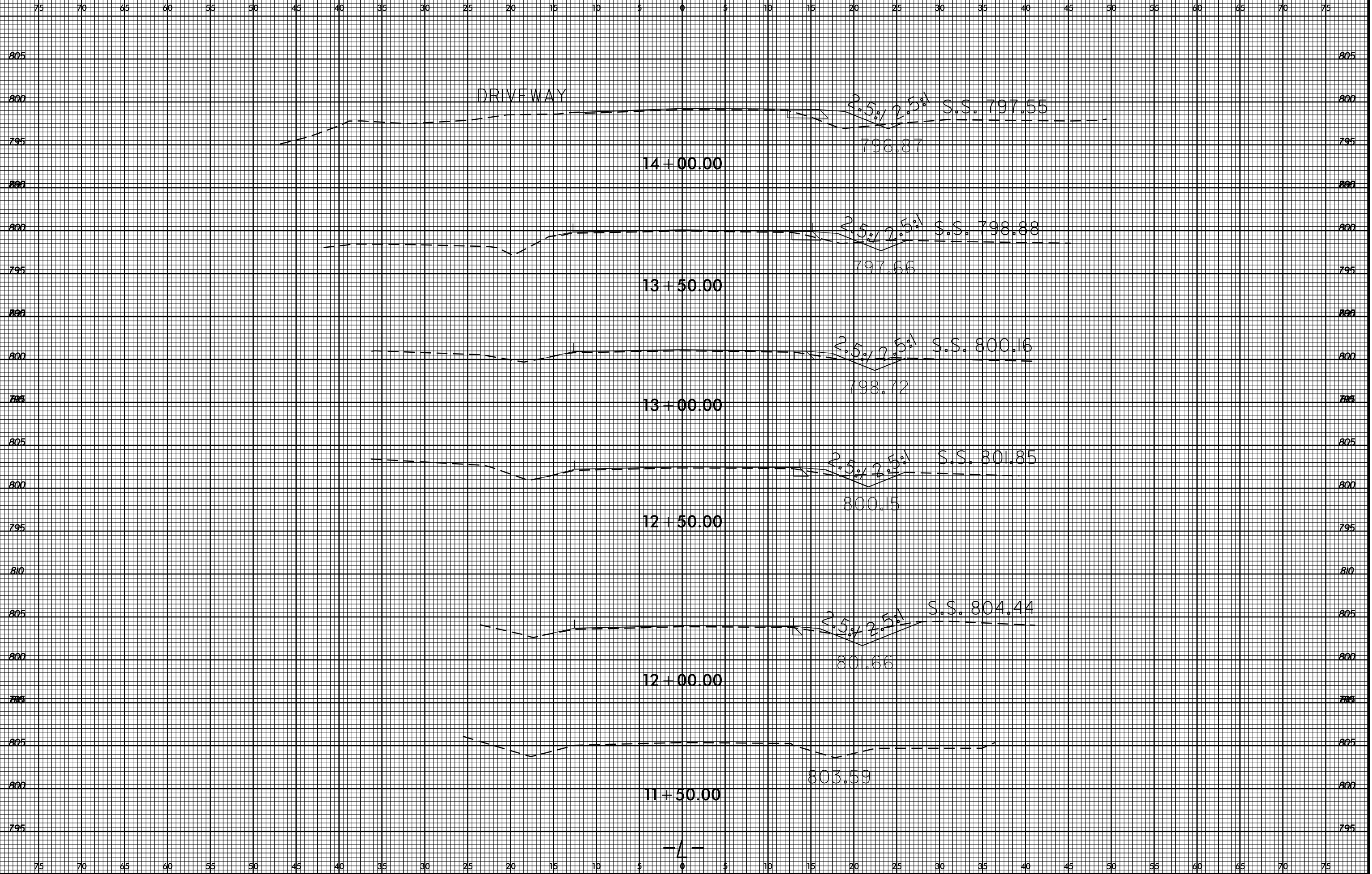
NUTEC INC.  
DB 3009 PG 43

LEFT TURN LANE ON  
MT. HOLLY-HUNTERSVILLE RD. (SR-2004)  
AT NUTEC, INC.

SCALE	1"=50'
DATE	3-2016
DWG. BY	DLS
DESIGN BY	JDH
APPROVED	RWB



REVISIONS

22-APR-2016 09:47  
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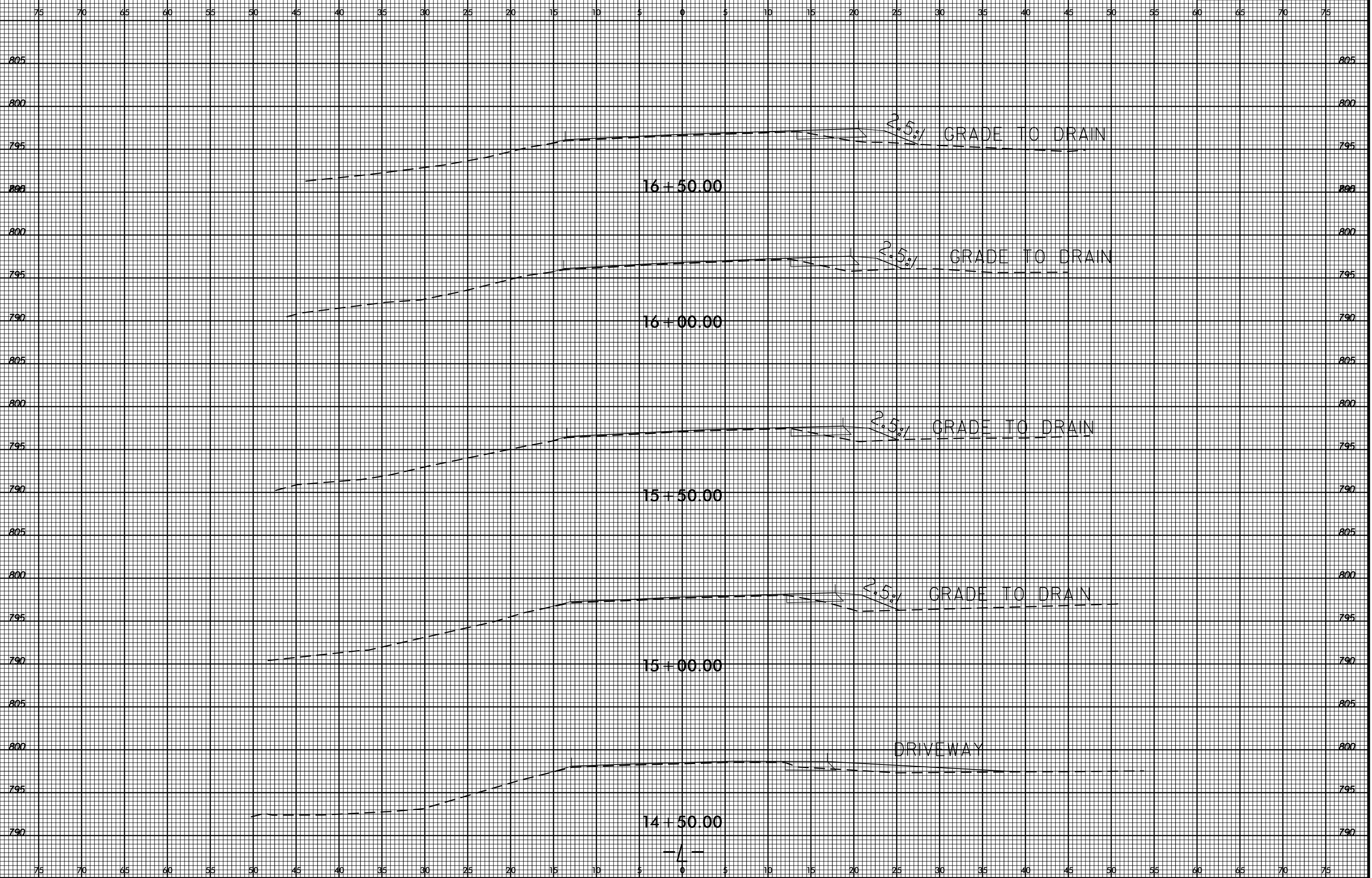


8/23/99



PROJ. REFERENCE NO.  
44536

SHEET NO.  
X-2



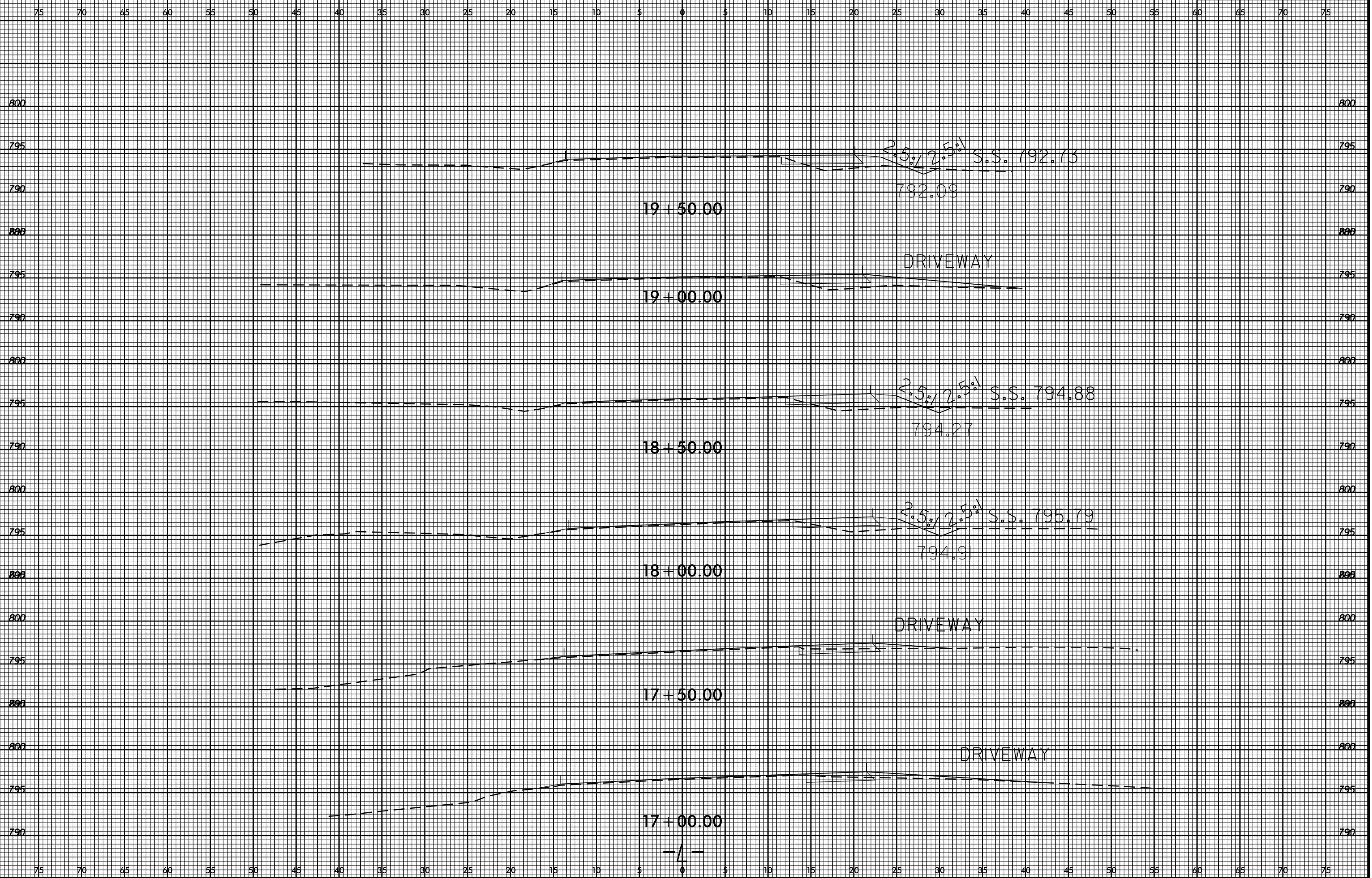
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8/23/99

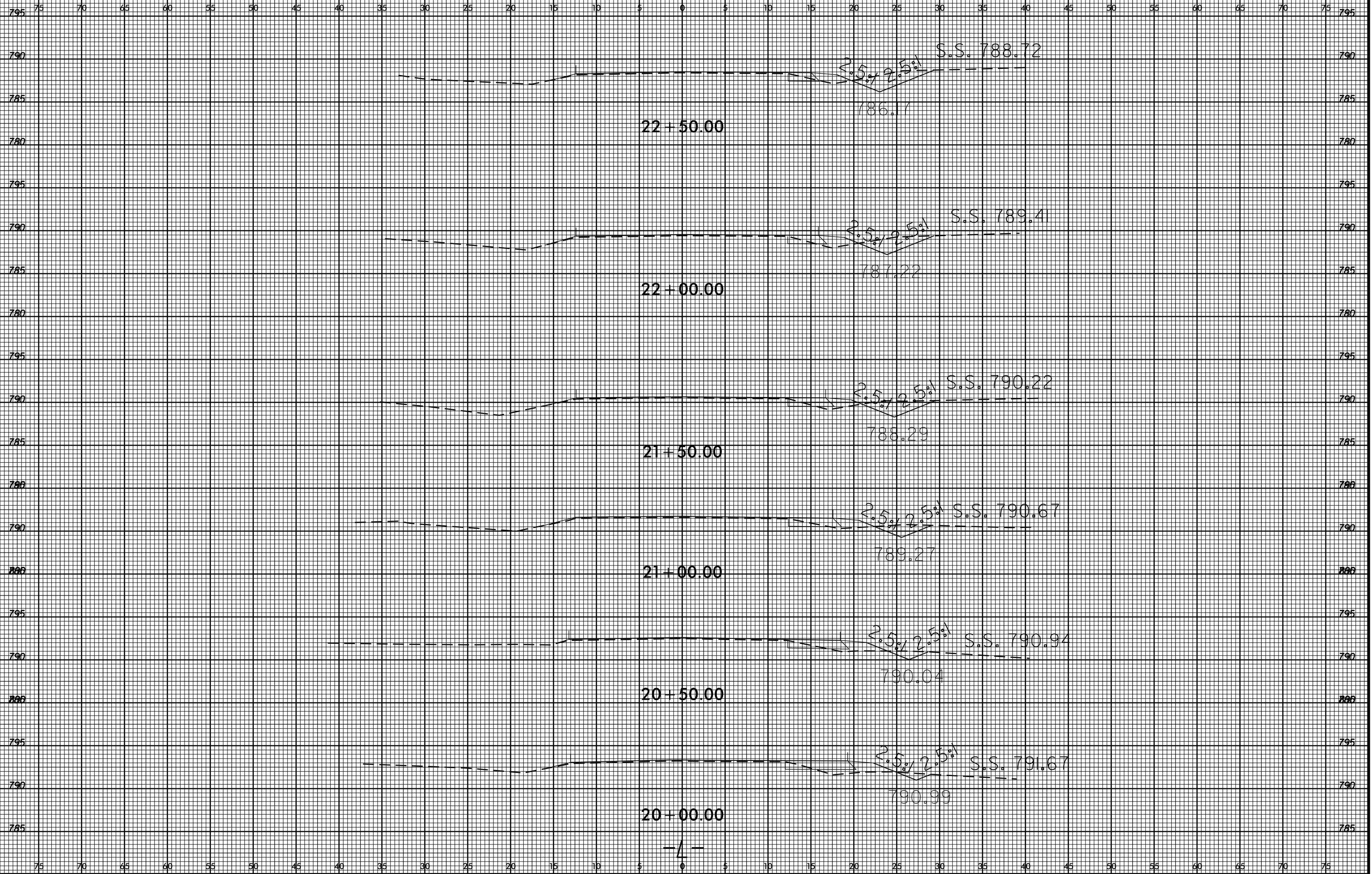


PROJ. REFERENCE NO.  
44536

SHEET NO.  
X-3



22-APR-2016 10:00  
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22-APR-2016 10:01  
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