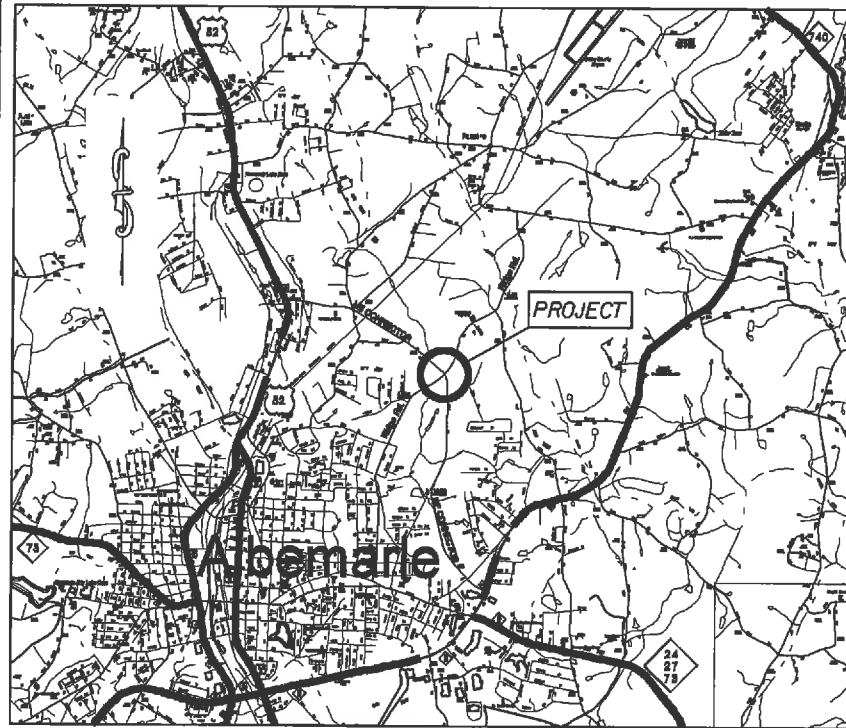


PROJECT: 45340.3.4 TIP: W-5210D

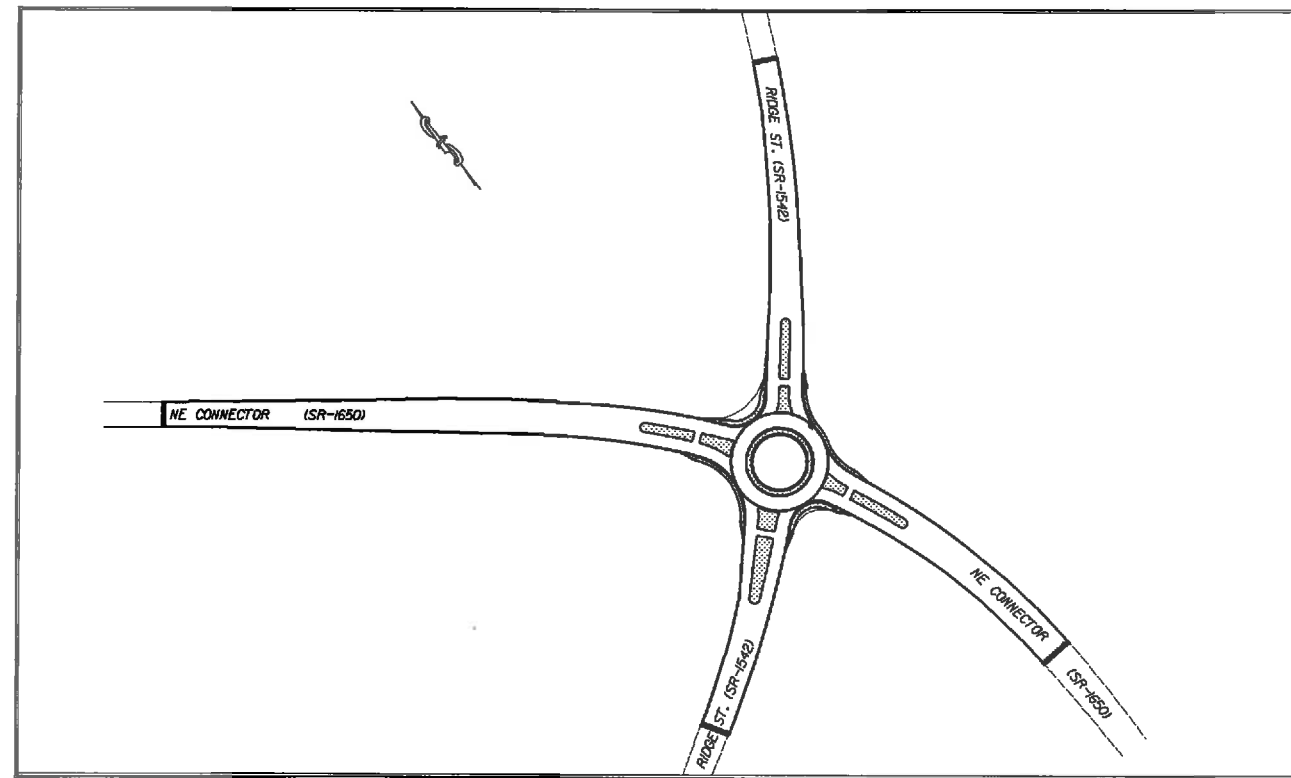


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
STANLY COUNTY

LOCATION: INTERSECTION OF NE CONNECTOR (SR-1650) AND
 RIDGE ST. (SR-1542)

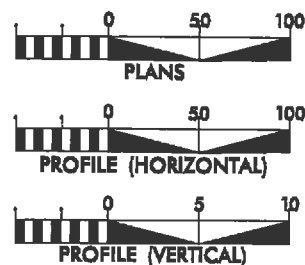
TYPE OF WORK: GRADING, PAVING, DRAINAGE, CONCRETE ISLANDS &
 THERMOPLASTIC PAVEMENT MARKINGS



CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD II AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS

STATE	STATE PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	1	
STATE PROJECT NO.	S.A. PROJECT NO.	DESCRIPTION	
45340.1.4	HSIP-1650(3)	P.E.	
45340.2.4		R/W	
45340.3.4		CONST.	

GRAPHIC SCALES



DESIGN DATA

ADT 2009 = 9,000
 ADT 2025 = 12,400
 DHV = 10 %
 D = %
 T = %
 V = 60 MPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 45340 = 0.41 MILES
 TOTAL LENGTH OF STATE PROJECT 45340 = 0.41 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

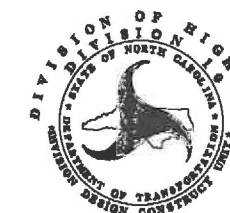
DIVISION TEN
 DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:

LETTING DATE:
 MAY 30, 2012

RANDY BOWERS
 PROJECT ENGINEER

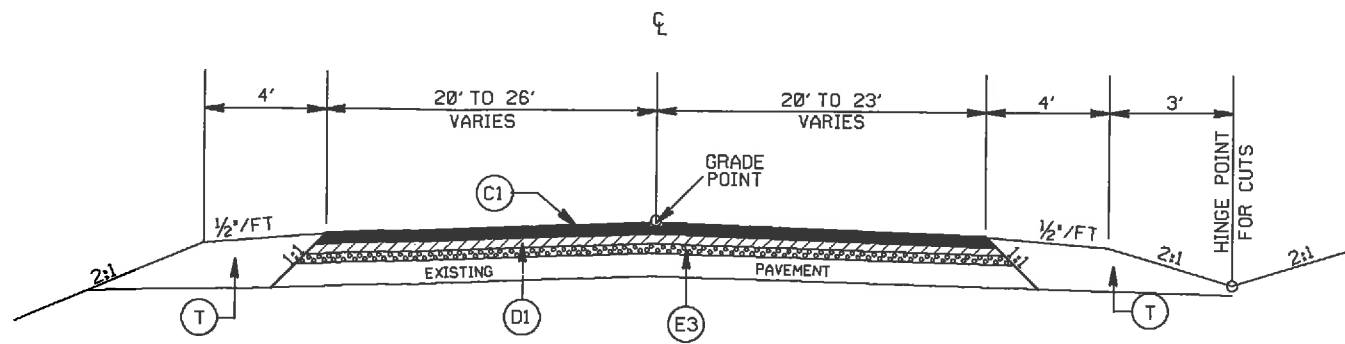
TERRY BURLESON
 PROJECT DESIGN ENGINEER



DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

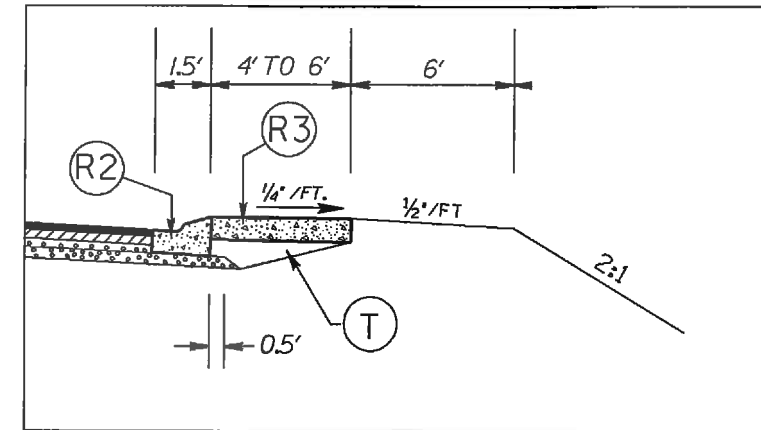
APPROVED BY _____ DATE _____
 DDG ENGINEER

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	2	
F.A. PROJECT NO.			

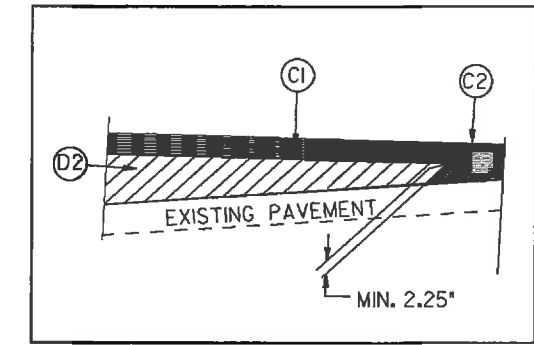


TYPICAL SECTION NO. 3

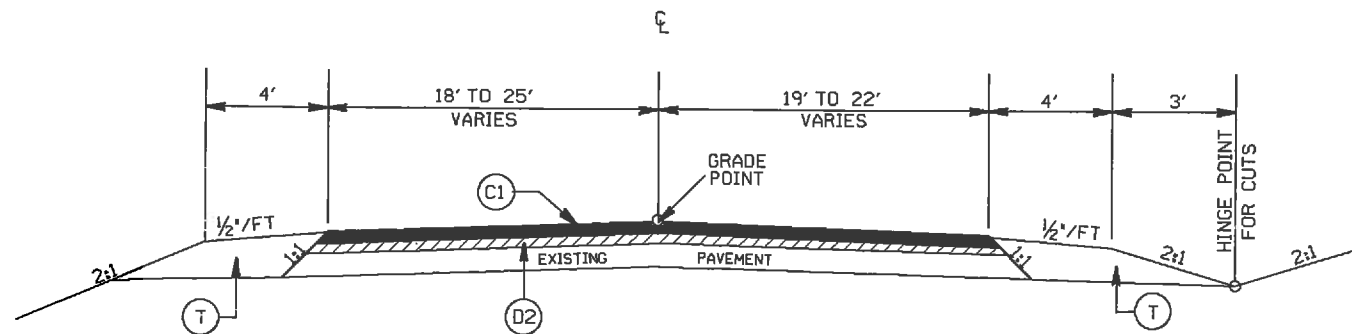
STA. 15+68 TO 16+36.86 -L-
 STA. 21+66.89 TO 21+89 -L-
 STA. 13+60 TO 13+99 -Y-
 STA. 20+47.11 TO 21+00 -Y-



APRON DETAIL 1

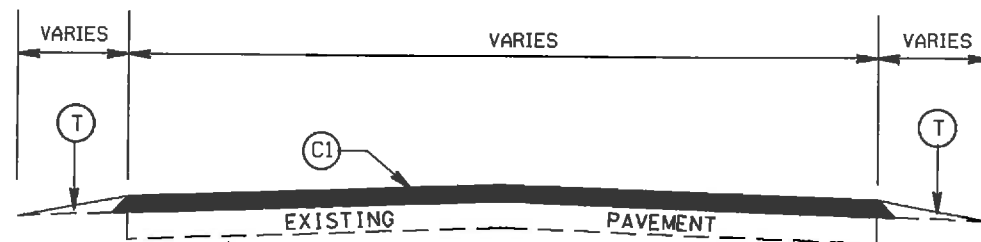


WEDGING DETAIL



TYPICAL SECTION NO. 2

STA. 14+95 TO 15+68 -L-
 STA. 21+89 TO 22+79 -L-
 STA. 13+38 TO 13+60 -Y-
 STA. 17+79 TO 18+29 -Y-



TYPICAL SECTION NO. 1

STA. 14+00 TO 14+95 -L-
 STA. 22+79 TO 27+25 -L-
 STA. 12+23.34 TO 13+38 -Y-
 STA. 18+29 TO 21+25 -Y-

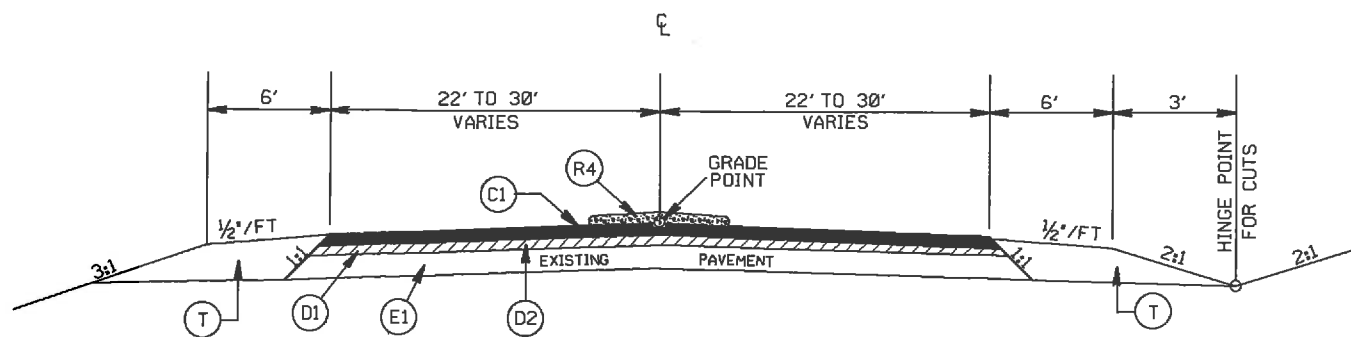
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E3)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 2'-6" CURB & GUTTER
(R2)	PROP. 1'-6" CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R3)	PROP. 7' TRUCK MOUNTABLE CONC ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 5' MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL

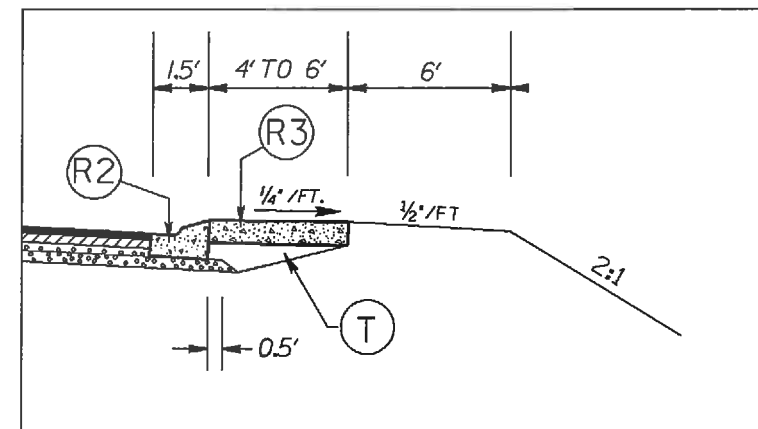
ROUNDBOULT AT THE INTERSECTION OF
 NE CONNECTOR (SR-1650) AND
 RIDGE ST. (SR-1542)

SCALE	-NA-		REVISIONS
DATE	9-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

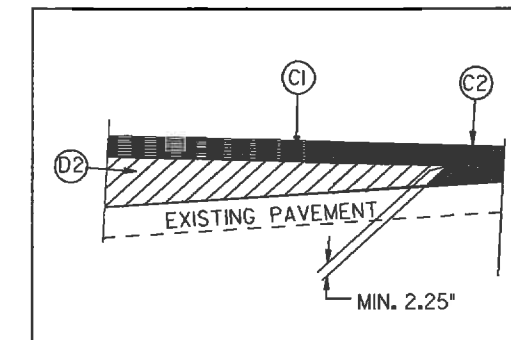
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	2A	
F.A. PROJECT NO.			



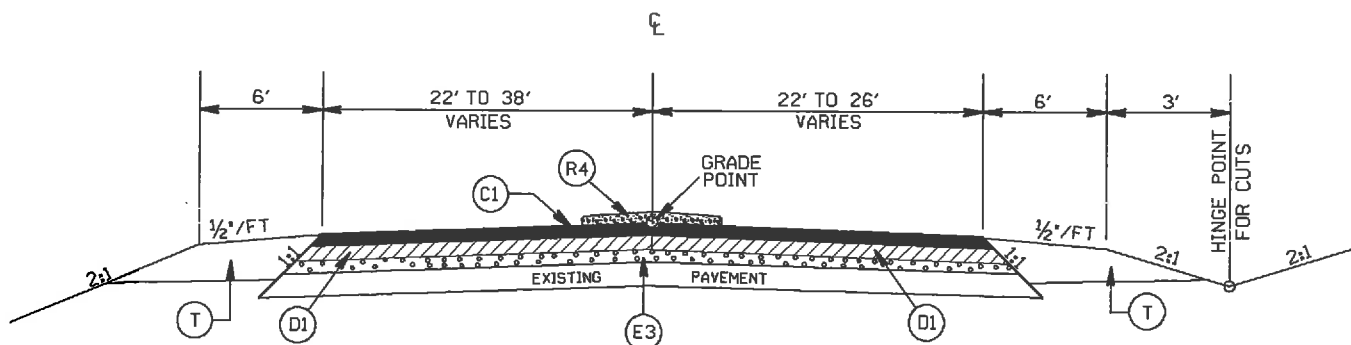
TYPICAL SECTION NO. 6
STA. 16+55 TO 17+79 -Y-



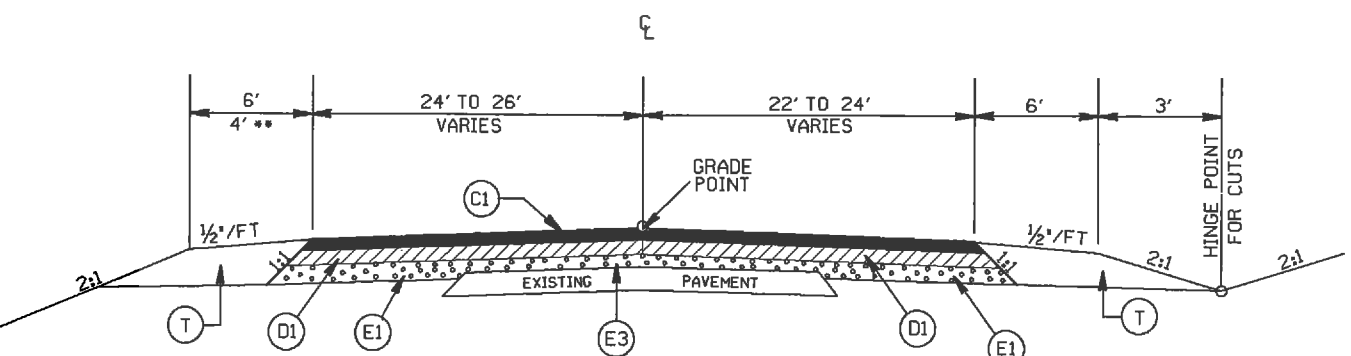
APRON DETAIL 1



WEDGING DETAIL



TYPICAL SECTION NO. 5
STA. 13+99 TO 15+23 -Y-



TYPICAL SECTION NO. 4
STA. 16+36.86 TO 17+12 -L-
STA. 20+92 TO 21+66.89 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E3)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 2'-6" CURB & GUTTER
(R2)	PROP. 1'-6" CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 5' MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL

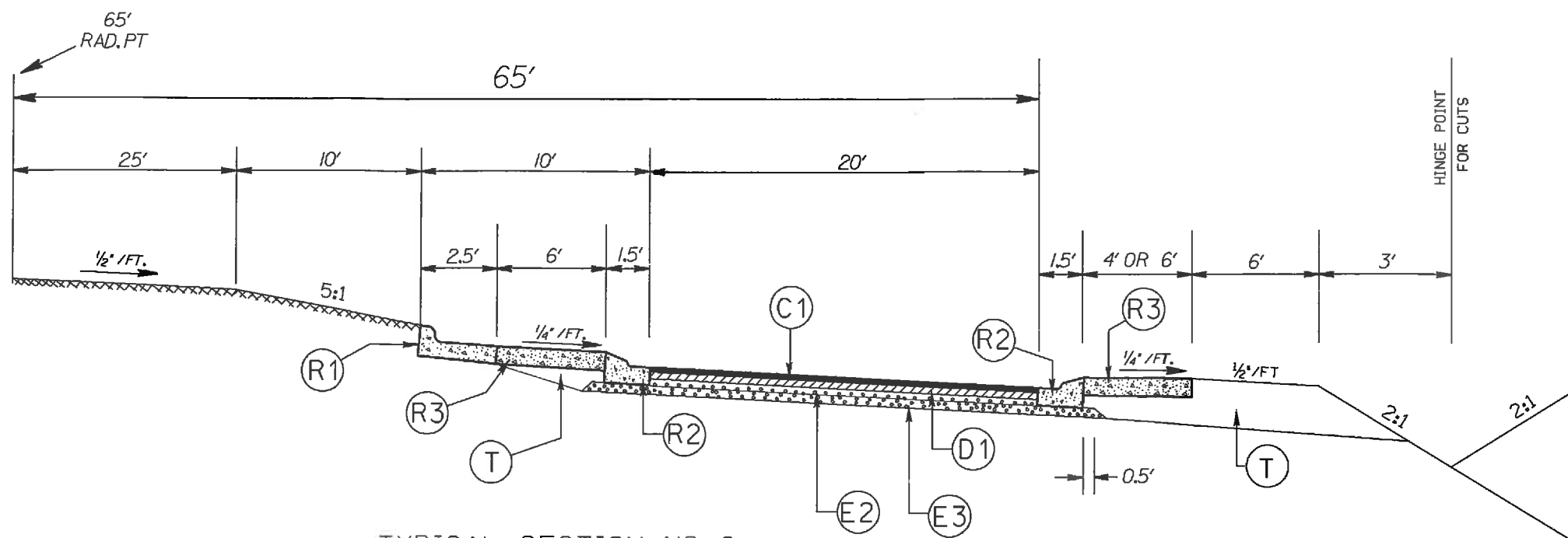
ROUNDABOUT AT THE INTERSECTION OF
NE CONNECTOR (SR-1650) AND
RIDGE ST. (SR-1542)

SCALE	-1/4"
DATE	9-11
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB



REVISIONS	

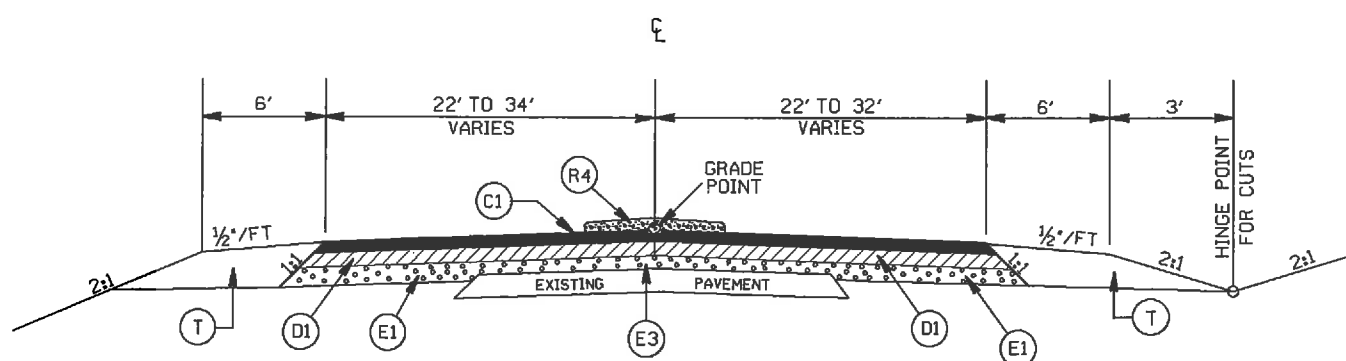
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	28	
F.A. PROJECT NO.			



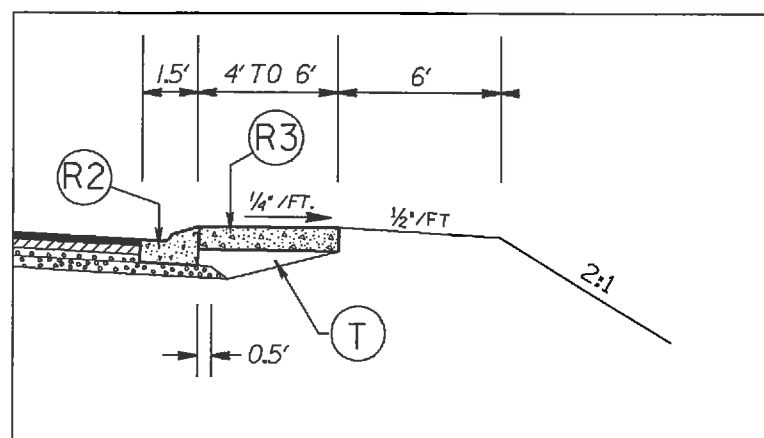
TYPICAL SECTION NO. 8
ROUNDBOUT

PAVEMENT SCHEDULE

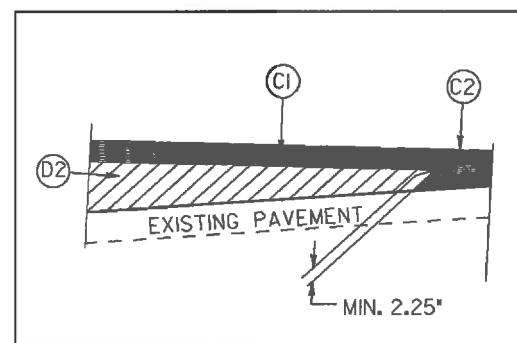
(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E3)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 2'-6" CURB & GUTTER
(R2)	PROP. 1'-6" CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 5' MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL



TYPICAL SECTION NO. 7
STA. 17+12 TO 18+36 -L-
STA. 19+68 TO 20+92 -L-



APRON DETAIL 1



WEDGING DETAIL

ROUNDBOUT AT THE INTERSECTION OF
NE CONNECTOR (SR-1650) AND
RIDGE ST. (SR-1542)

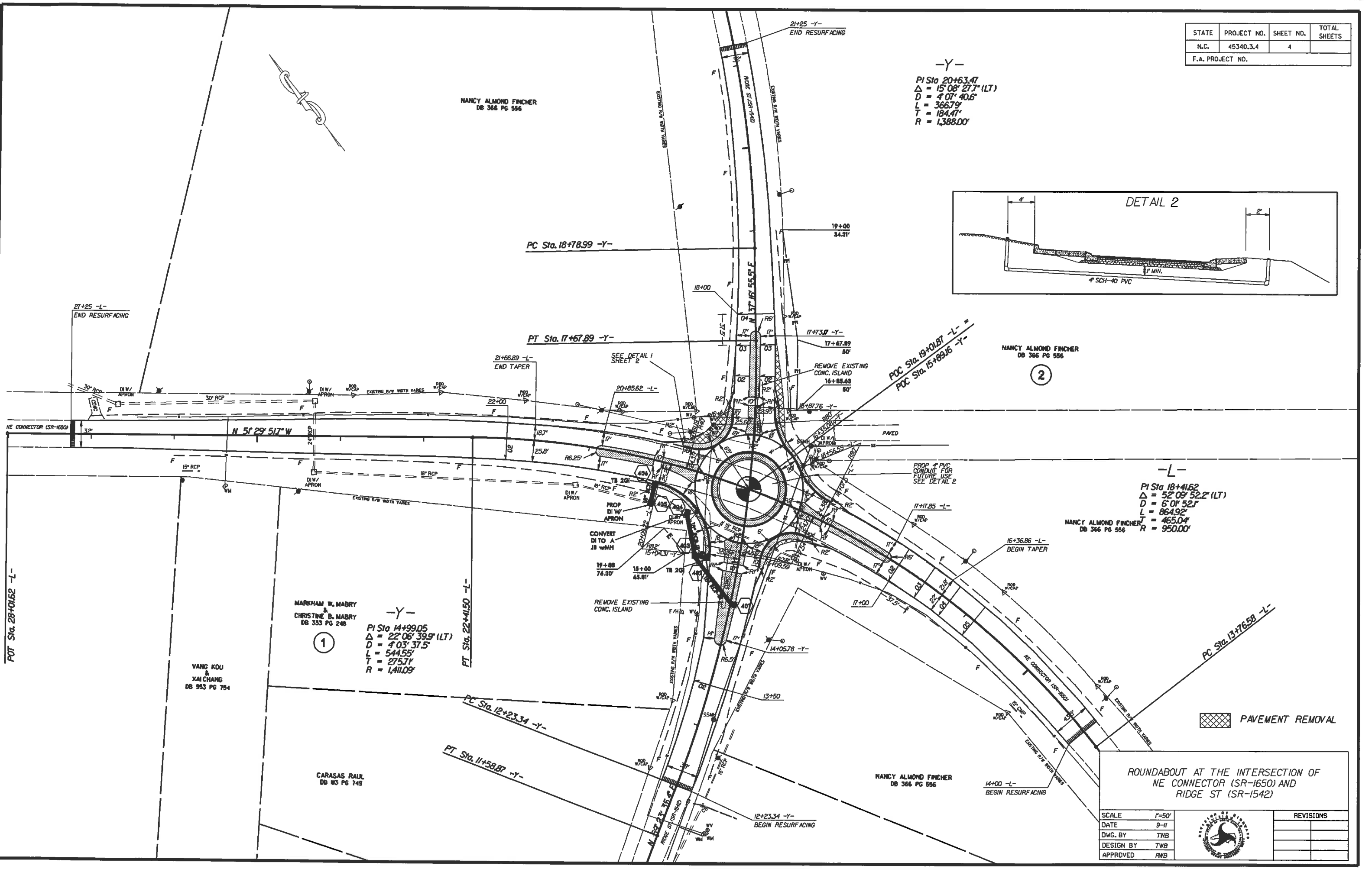
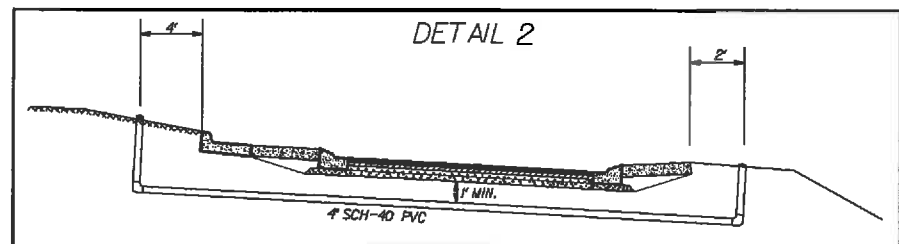
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DATE	9-11
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	4	
F.A. PROJECT NO.			

-Y-
 PI Sta 20+63.47
 $\Delta = 15^{\circ} 08' 27.7" (LT)$
 $D = 4^{\circ} 07' 40.6"$
 $L = 366.79'$
 $T = 184.47'$
 $R = 1,388.00'$



NANCY ALMOND FINCHER
 DB 366 PG 556
 2

-L-
 PI Sta 18+41.62
 $\Delta = 52^{\circ} 09' 52.2" (LT)$
 $D = 6^{\circ} 01' 52.1"$
 $L = 864.92'$
 $T = 465.04'$
 $R = 950.00'$

1
 MARKHAM W. MABRY & CHRISTINE B. MABRY
 DB 333 PG 248
 -Y-
 PI Sta 14+99.05
 $\Delta = 22^{\circ} 06' 39.9" (LT)$
 $D = 4^{\circ} 03' 37.5"$
 $L = 544.55'$
 $T = 275.71'$
 $R = 1,411.09'$

PAVEMENT REMOVAL

ROUNDABOUT AT THE INTERSECTION OF
 NE CONNECTOR (SR-1650) AND
 RIDGE ST (SR-1542)

SCALE	1"=50'
DATE	9-11
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

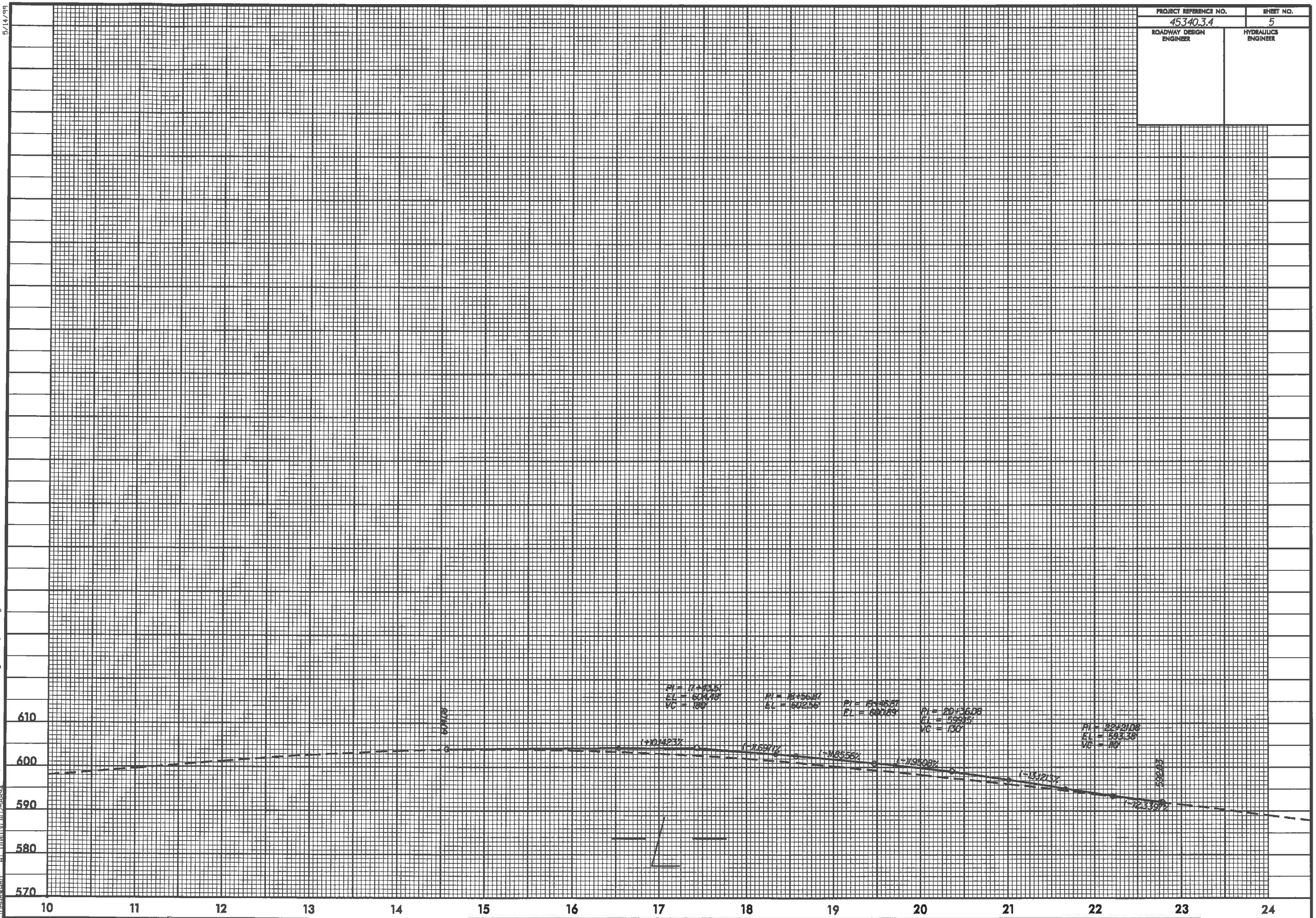


REVISIONS

5/14/99

PROJECT REFERENCE NO. 45340.3.4	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

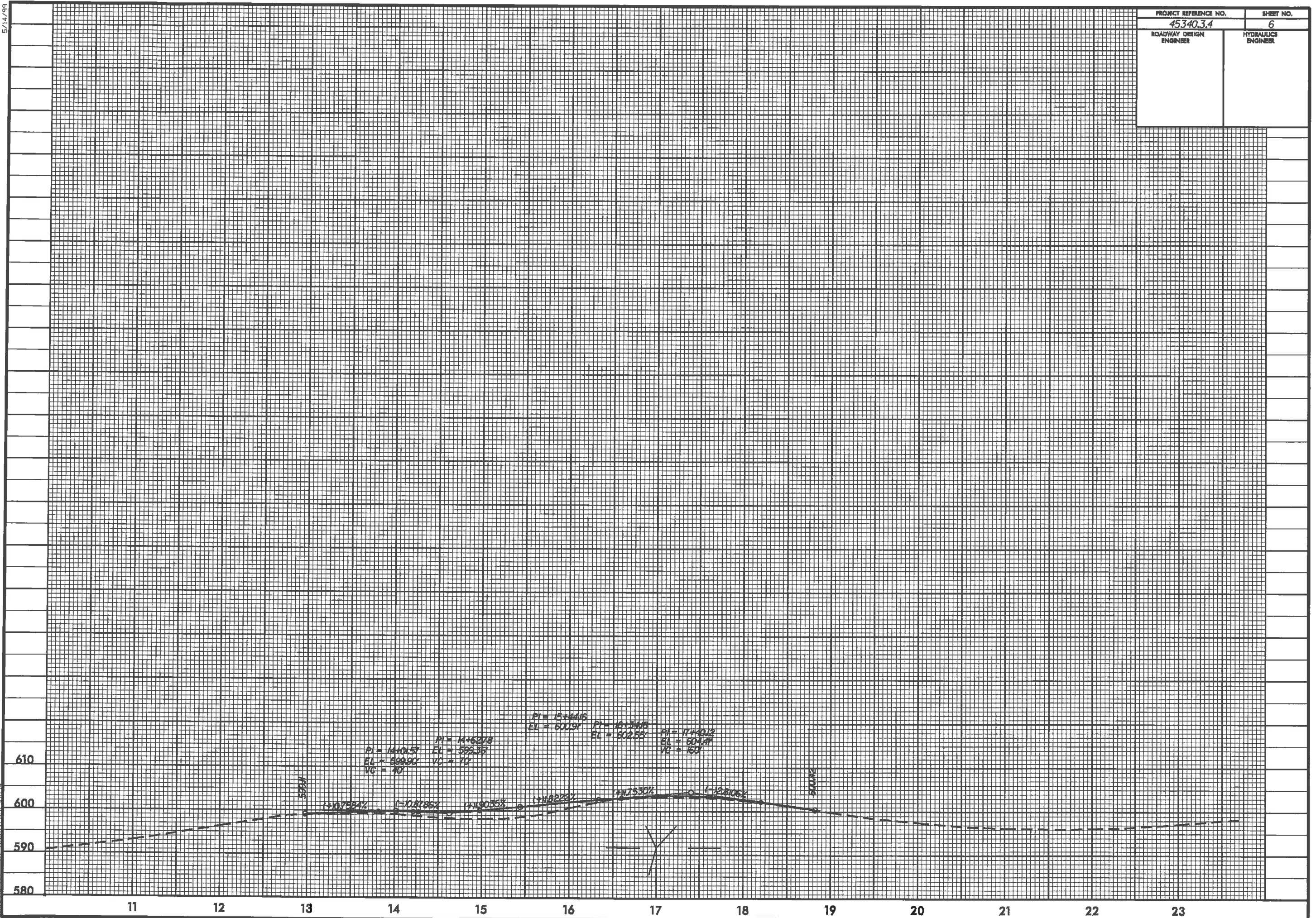
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5/14/99

PROJECT REFERENCE NO. 45340.3.4	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PROJECT: 45340.3.4 TIP: W-5210D

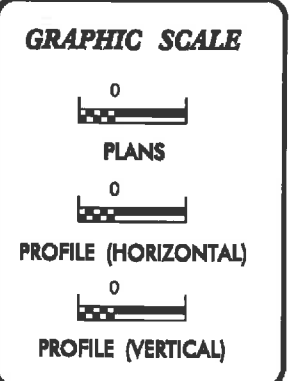
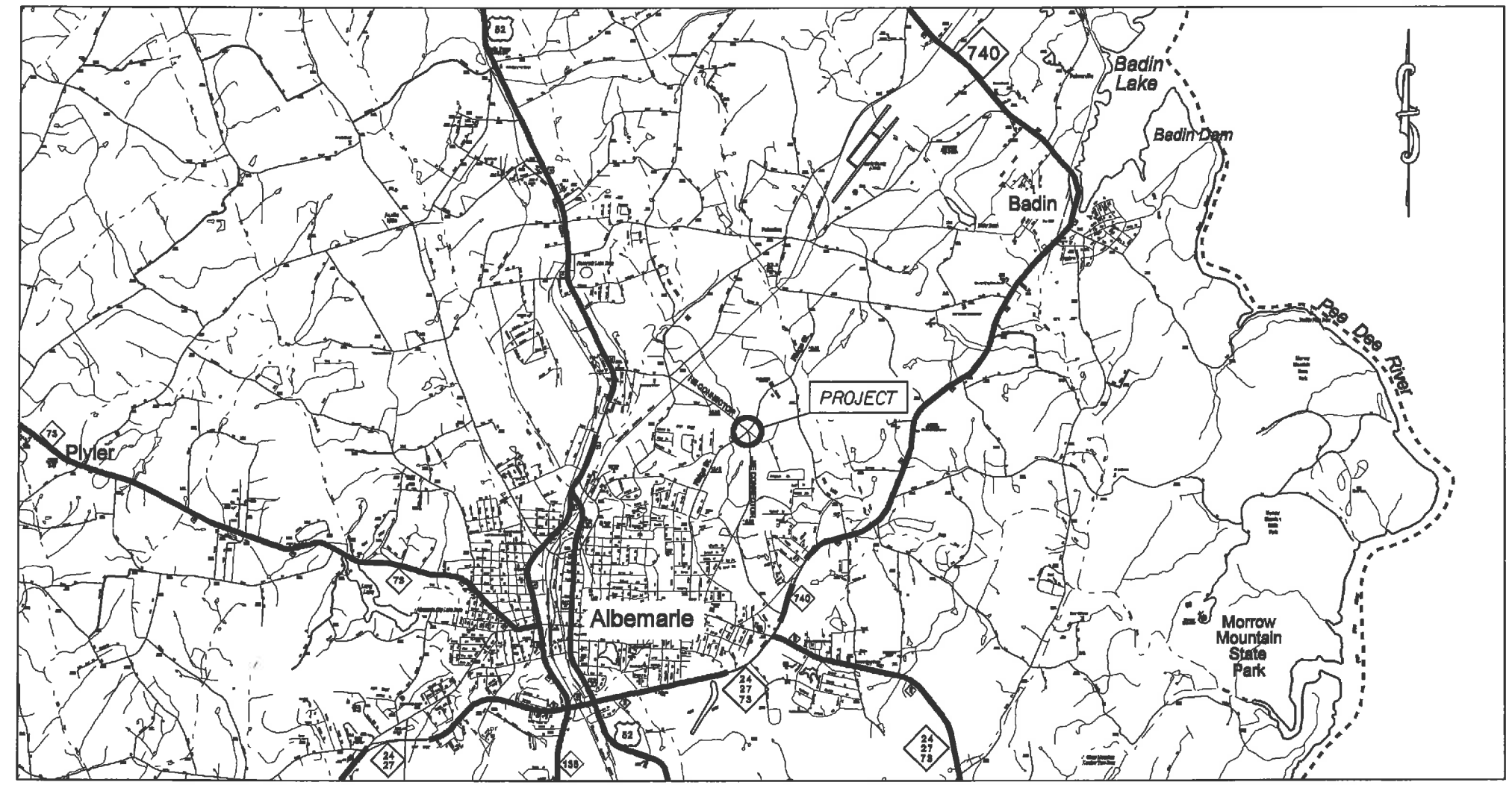
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	EC-1	
STATE SYMBOL	F.A. SYMBOL	DESCRIPTION	

Std. #	Description	Symbol
1650.05	Temporary Silt Ditch	-----
1630.05	Temporary Diversion	----->
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	IIIIIIIIII
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)	→
1654.01	Temporary Rock Sediment Dam Type-A	■
1634.02	Temporary Rock Sediment Dam Type-B	D
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊕
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊕
1650.04	Stilling Basin	▭
1650.06	Special Stilling Basin	⊕
	Rock Inlet Sediment Trap:	
1632.01	Type A	A □
1632.02	Type B	B □
1632.03	Type C	C □
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

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



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:
DDC UNIT DIVISION 10
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway gullish 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 Silt 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.	45340.3.4	EC-2	
F.A. PROJECT NO.			

-Y-
 PI Sta 20+63.47
 $\Delta = 15^{\circ} 08' 27.7" (LT)$
 $D = 4 07' 40.6"$
 $L = 366.79'$
 $T = 184.41'$
 $R = 1,388.00'$

RUBY M. ALMOND
 DB 366 PG 556

-L-
 PI Sta 18+41.62
 $\Delta = 52^{\circ} 09' 52.2" (LT)$
 $D = 6^{\circ} 0' 52.1"$
 $L = 864.92'$
 $T = 465.04'$
 $R = 950.00'$

RUBY M. ALMOND
 DB 366 PG 556

-Y-
 PI Sta 14+99.05
 $\Delta = 22^{\circ} 06' 39.9" (LT)$
 $D = 4 03' 37.5"$
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 $R = 1,411.09'$

MARKHAM W. MABRY
 &
 CHRISTINE B. MABRY
 DB 333 PG 246

VANG KOU
 &
 XAI CHANG
 DB 953 PG 754

CARASAS RALL
 DB W3 PG 749

RUBY M. ALMOND
 DB 366 PG 556

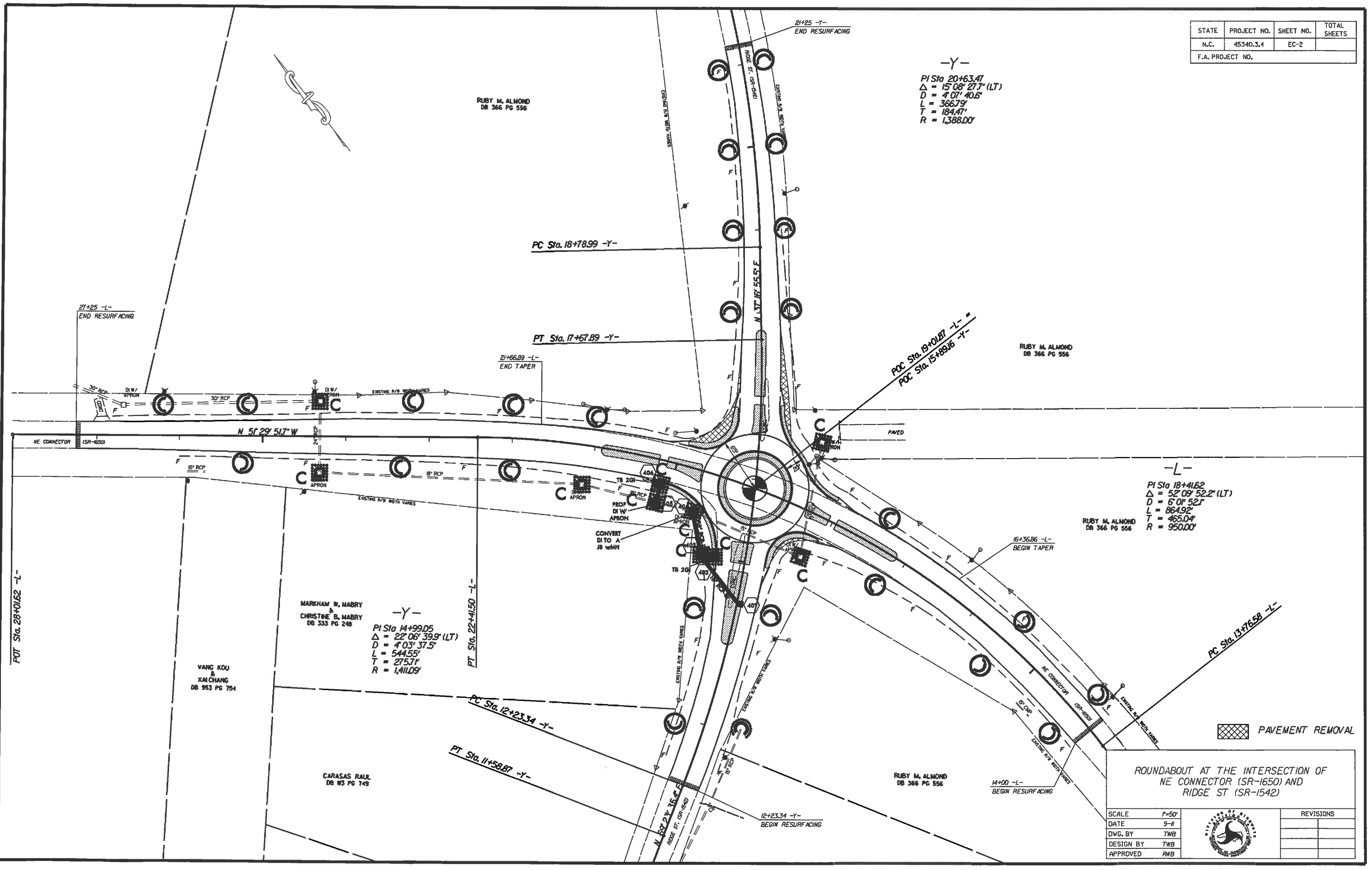
PAVEMENT REMOVAL

ROUNDABOUT AT THE INTERSECTION OF
 NE CONNECTOR (SR-1650) AND
 RIDGE ST (SR-1542)

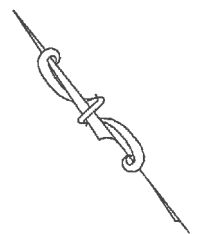
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DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB



NO.	REVISIONS



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	PMP-1	
F.A. PROJECT NO.			



PAVEMENT MARKING SCHEDULE

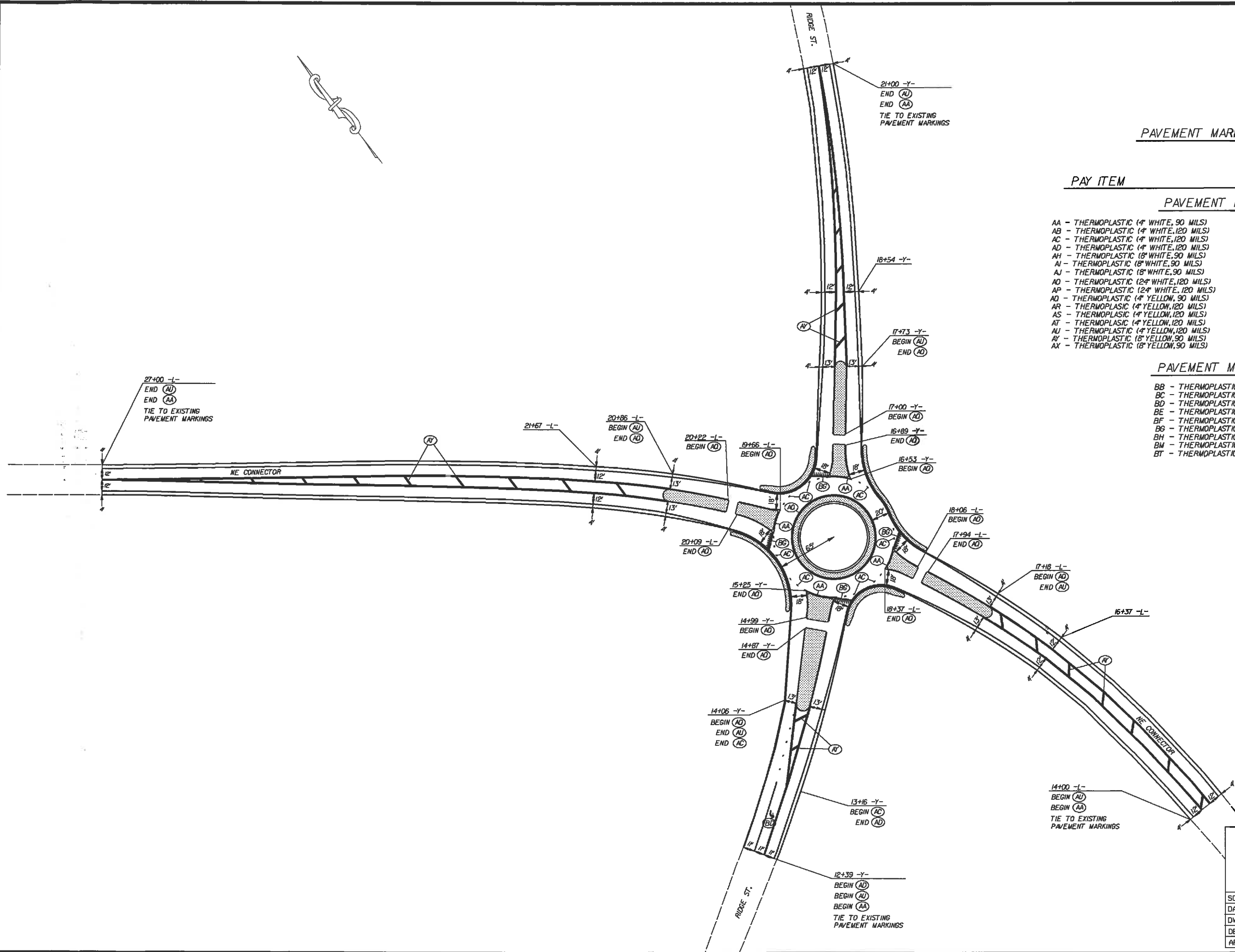
PAY ITEM	DESCRIPTION
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PAVEMENT MARKING LINES


AA - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGELINE
AB - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 10' SKIP
AC - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 2' MINISKIP
AD - THERMOPLASTIC (4" WHITE, 120 MILS)	SOLID LANE LINE
AH - THERMOPLASTIC (8" WHITE, 90 MILS)	EDGELINE
AI - THERMOPLASTIC (8" WHITE, 90 MILS)	GORELINE
AJ - THERMOPLASTIC (8" WHITE, 90 MILS)	DIAGONALS
AO - THERMOPLASTIC (24" WHITE, 120 MILS)	STOP BAR
AP - THERMOPLASTIC (24" WHITE, 120 MILS)	CROSSWALK LINE
AD - THERMOPLASTIC (4" YELLOW, 90 MILS)	EDGELINE
AR - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 10' SKIP
AS - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 2' SKIP
AT - THERMOPLASTIC (4" YELLOW, 120 MILS)	SINGLE CENTER LINE
AU - THERMOPLASTIC (4" YELLOW, 120 MILS)	DOUBLE CENTER LINE
AV - THERMOPLASTIC (8" YELLOW, 90 MILS)	DIAGONALS
AX - THERMOPLASTIC (8" YELLOW, 90 MILS)	EDGELINE

PAVEMENT MARKING SYMBOLS

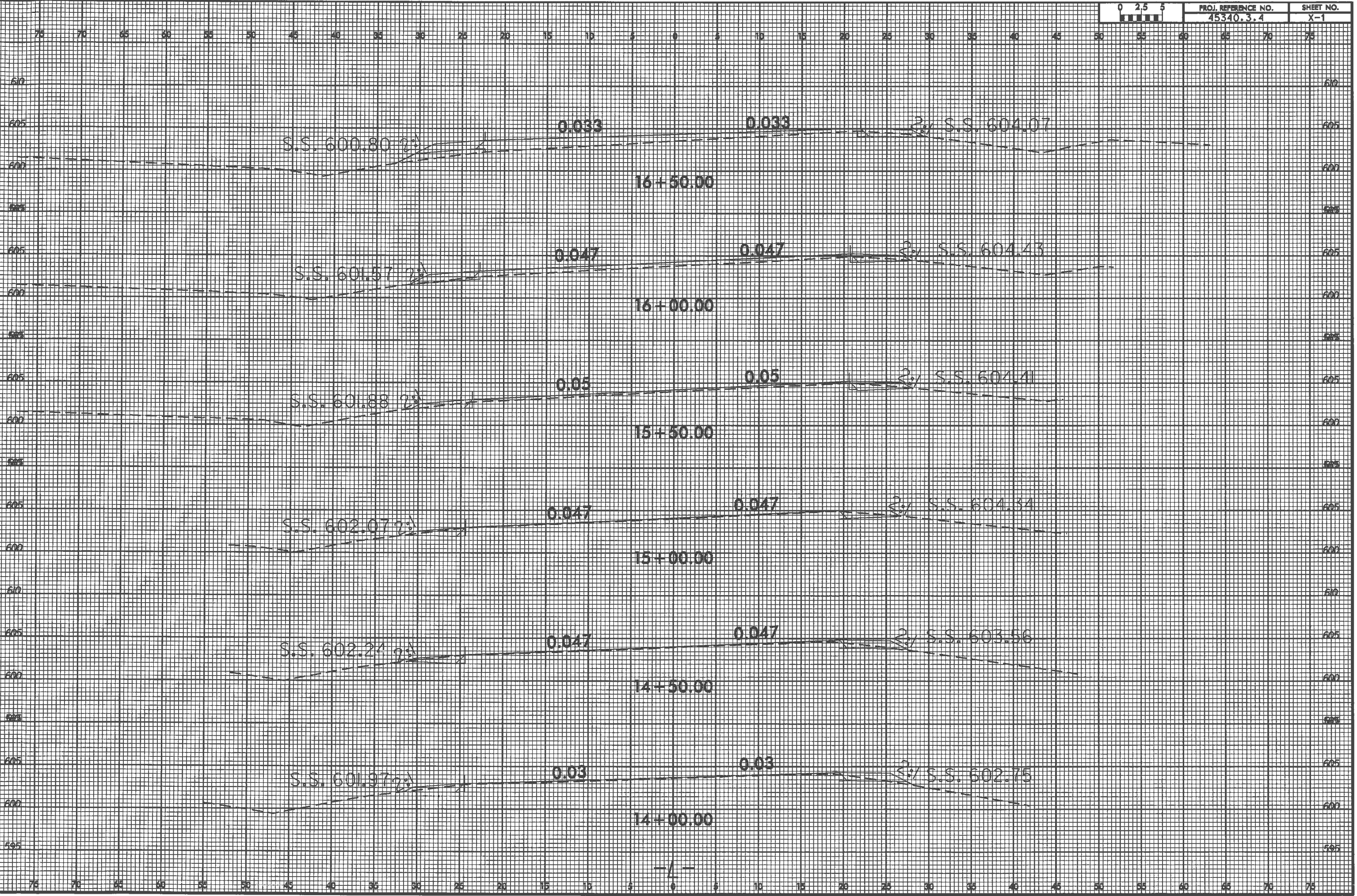
BB - THERMOPLASTIC ('SCHOOL', 120 MILS)
BC - THERMOPLASTIC ('ONLY', 120 MILS)
BD - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)
BE - THERMOPLASTIC (RIGHT TURN ARROW, 90 MILS)
BF - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
BG - THERMOPLASTIC (YIELD LINE, WHITE, 120 MILS 24" BASE)
BH - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT ARROW, 90 MILS)
BM - THERMOPLASTIC ('STOP', 120 MILS)
BT - THERMOPLASTIC (U TURN ARROW, 90 MILS)



**ROUNDABOUT AT THE INTERSECTION OF
NE CONNECTOR (SR-1650) AND
RIDGE ST (SR-1542)**

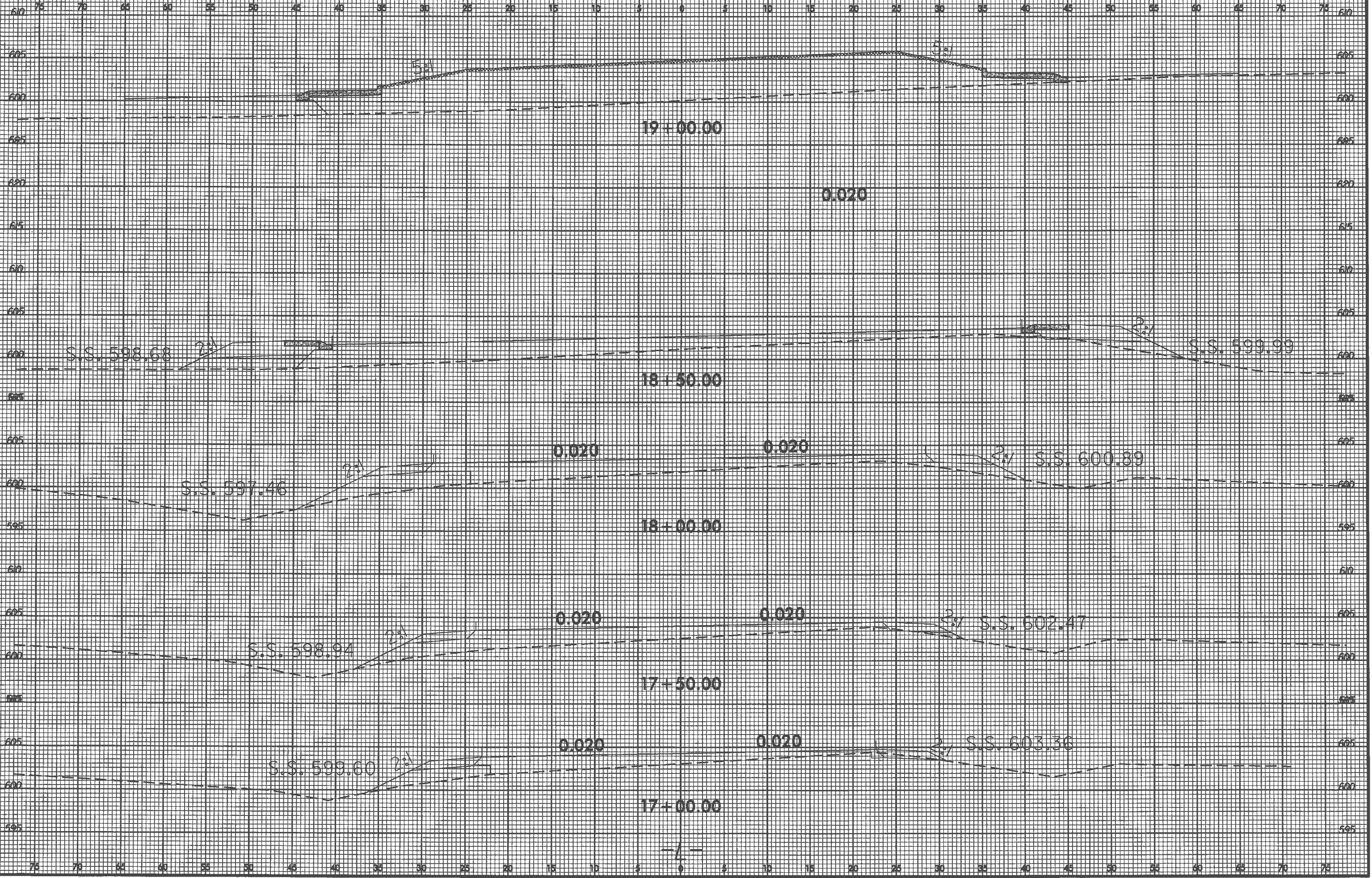
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DATE	9-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

8/23/99



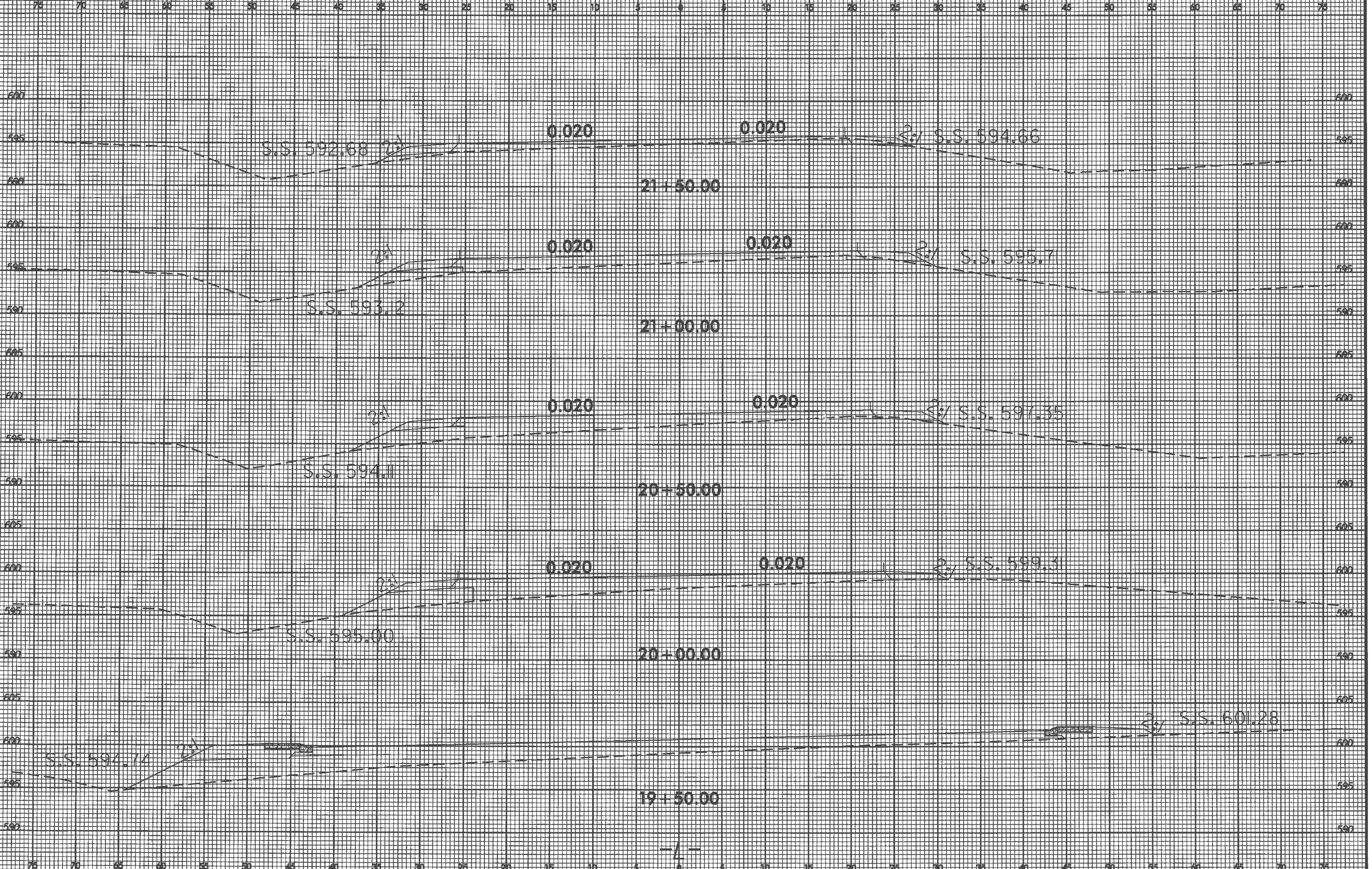
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8/23/99

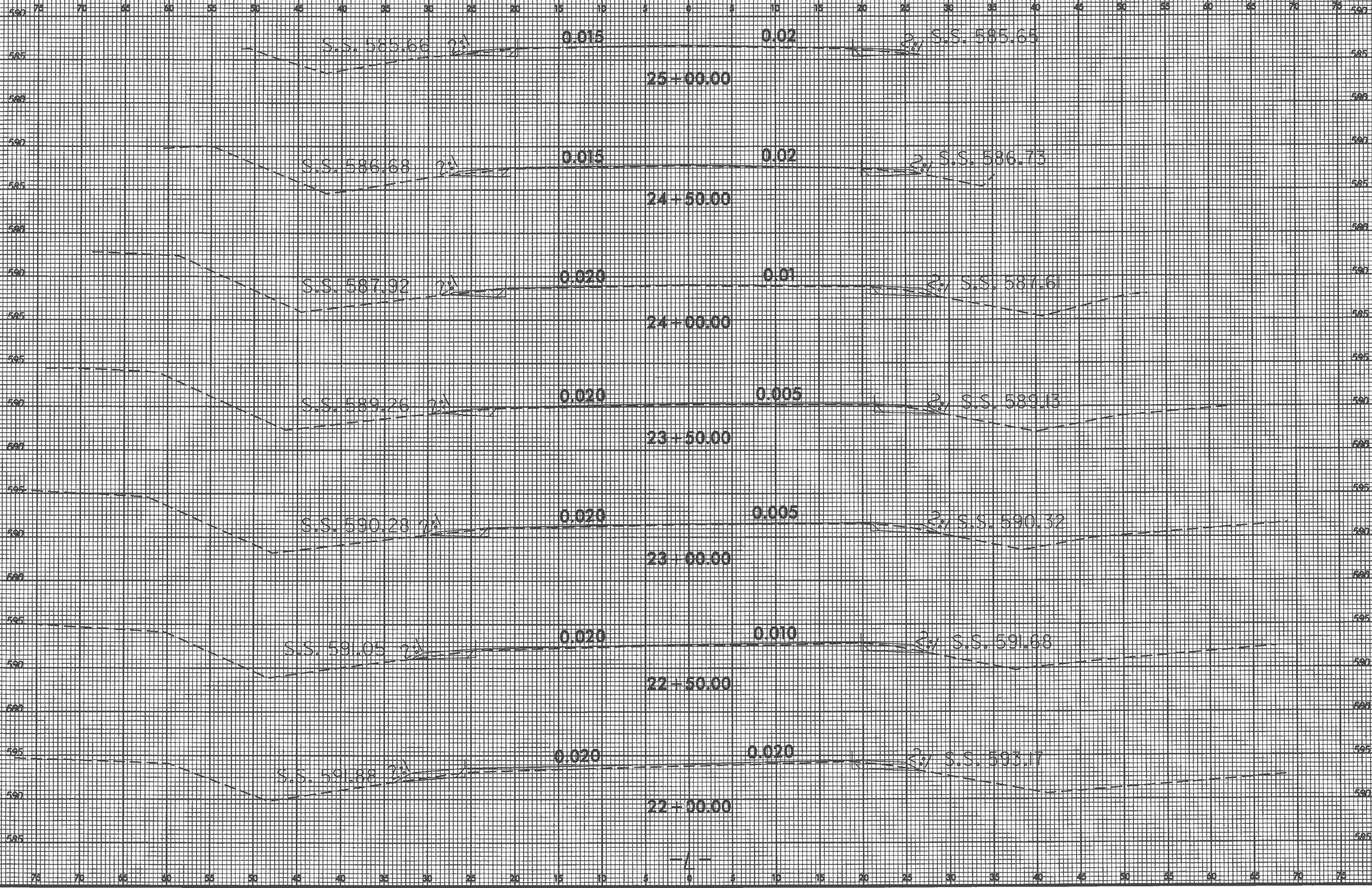


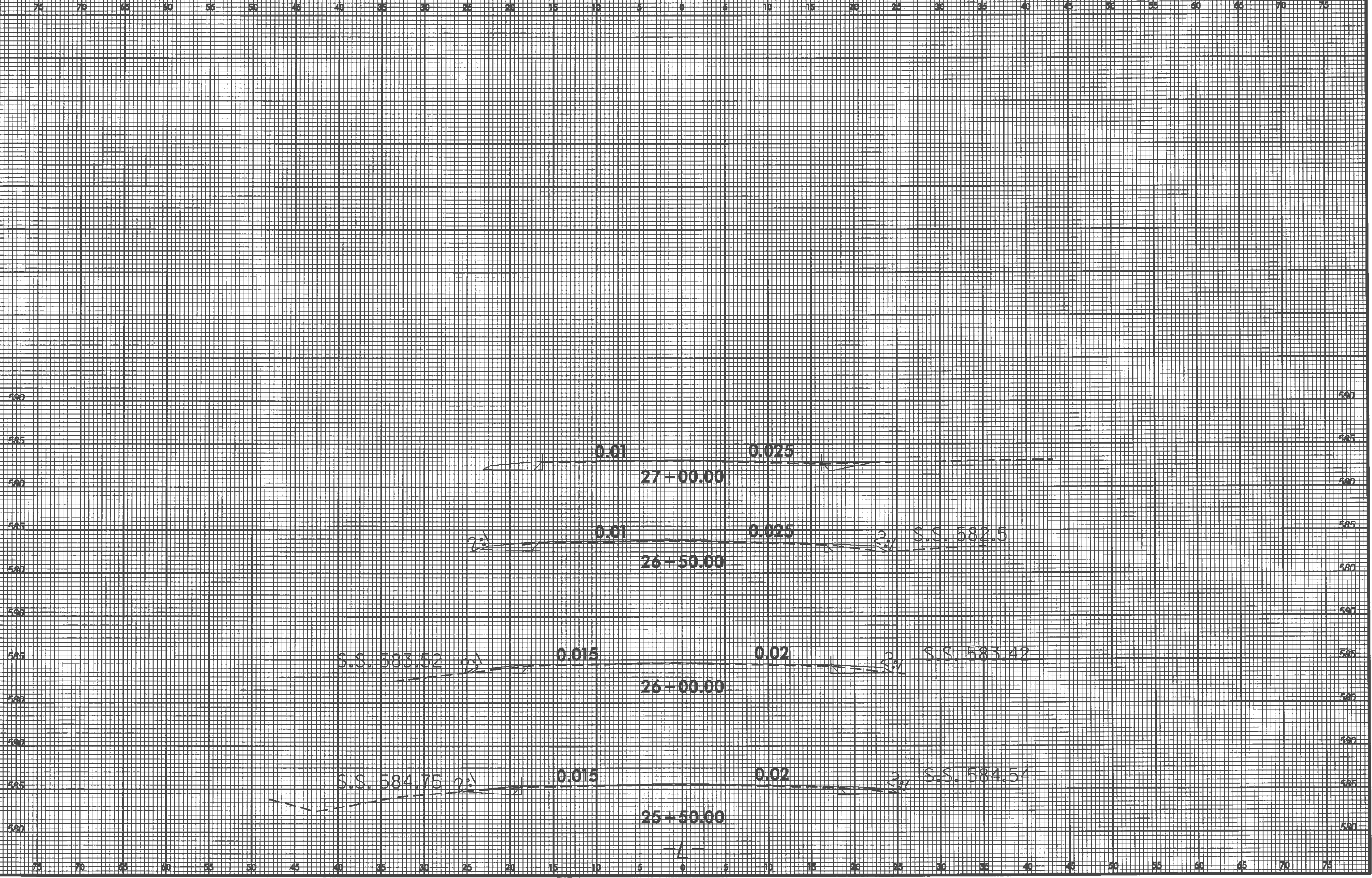
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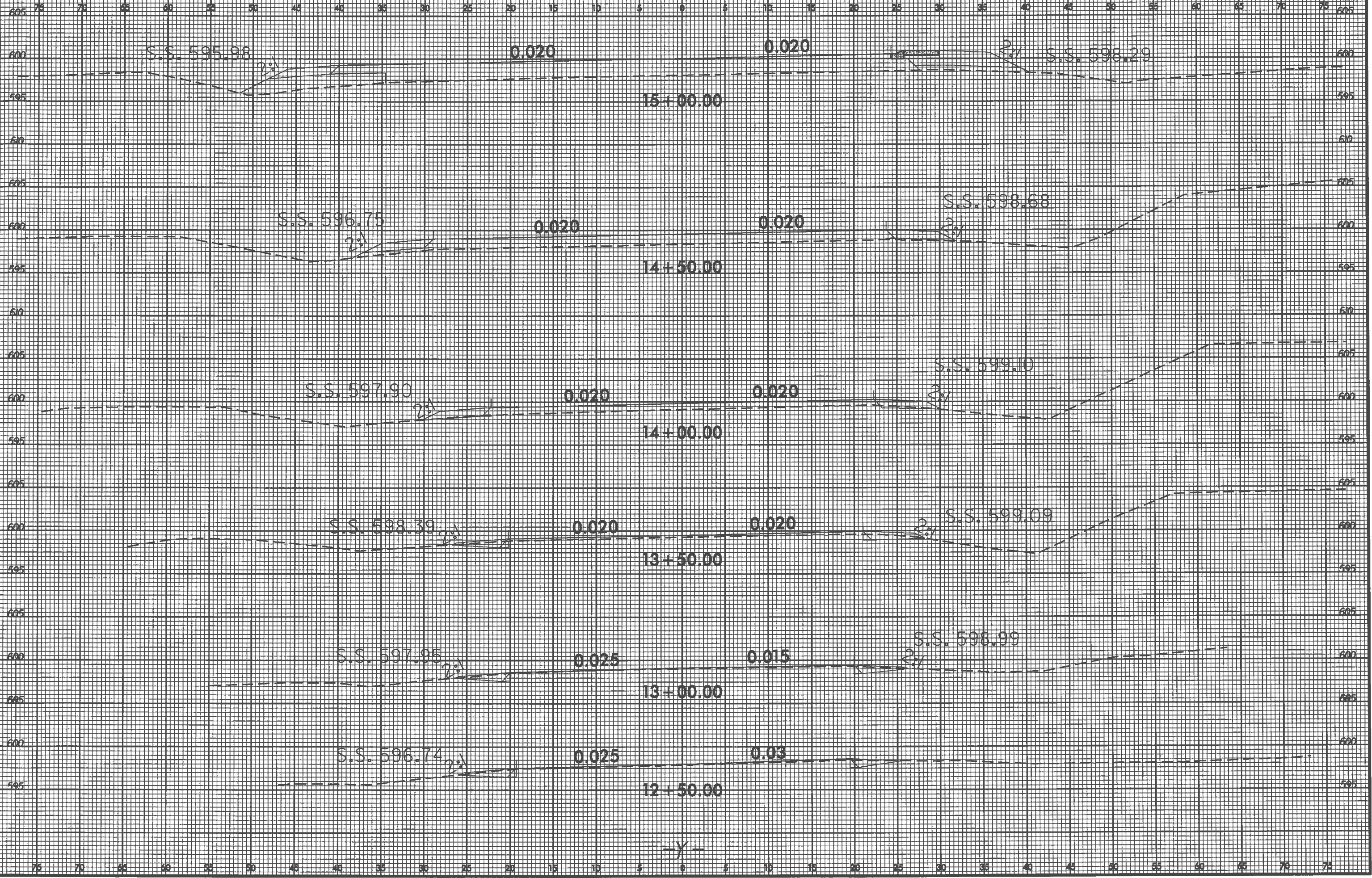
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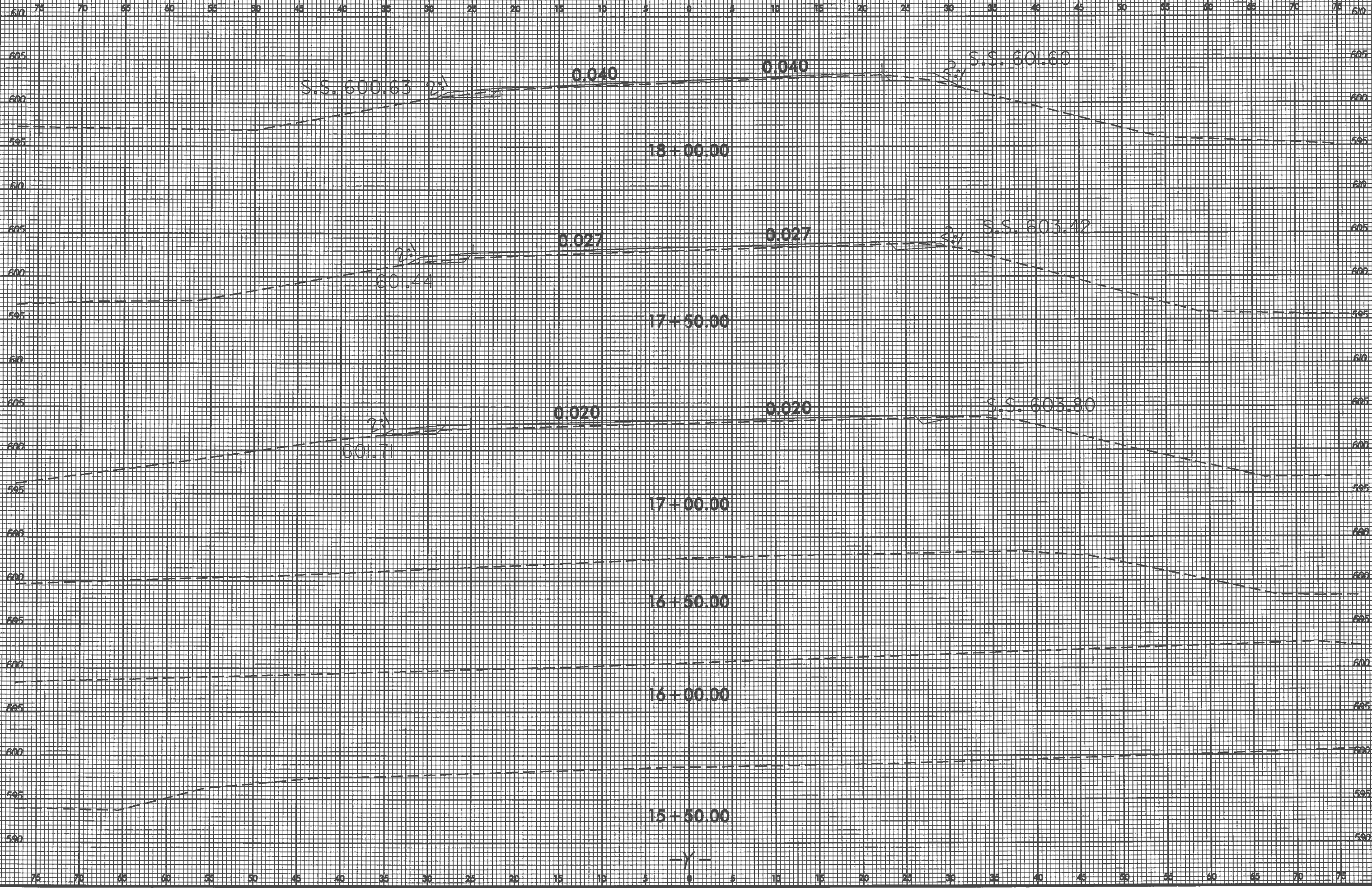


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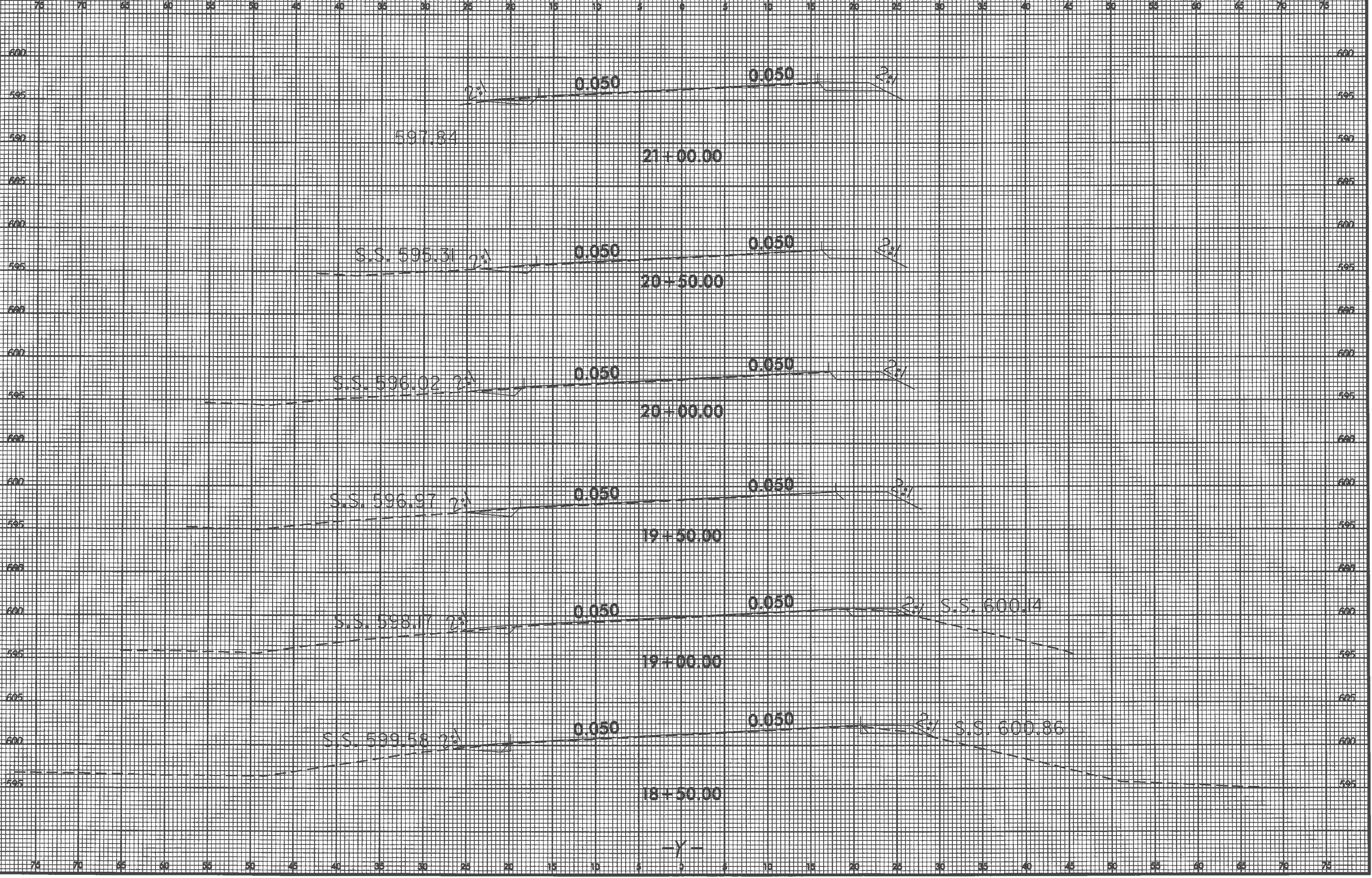






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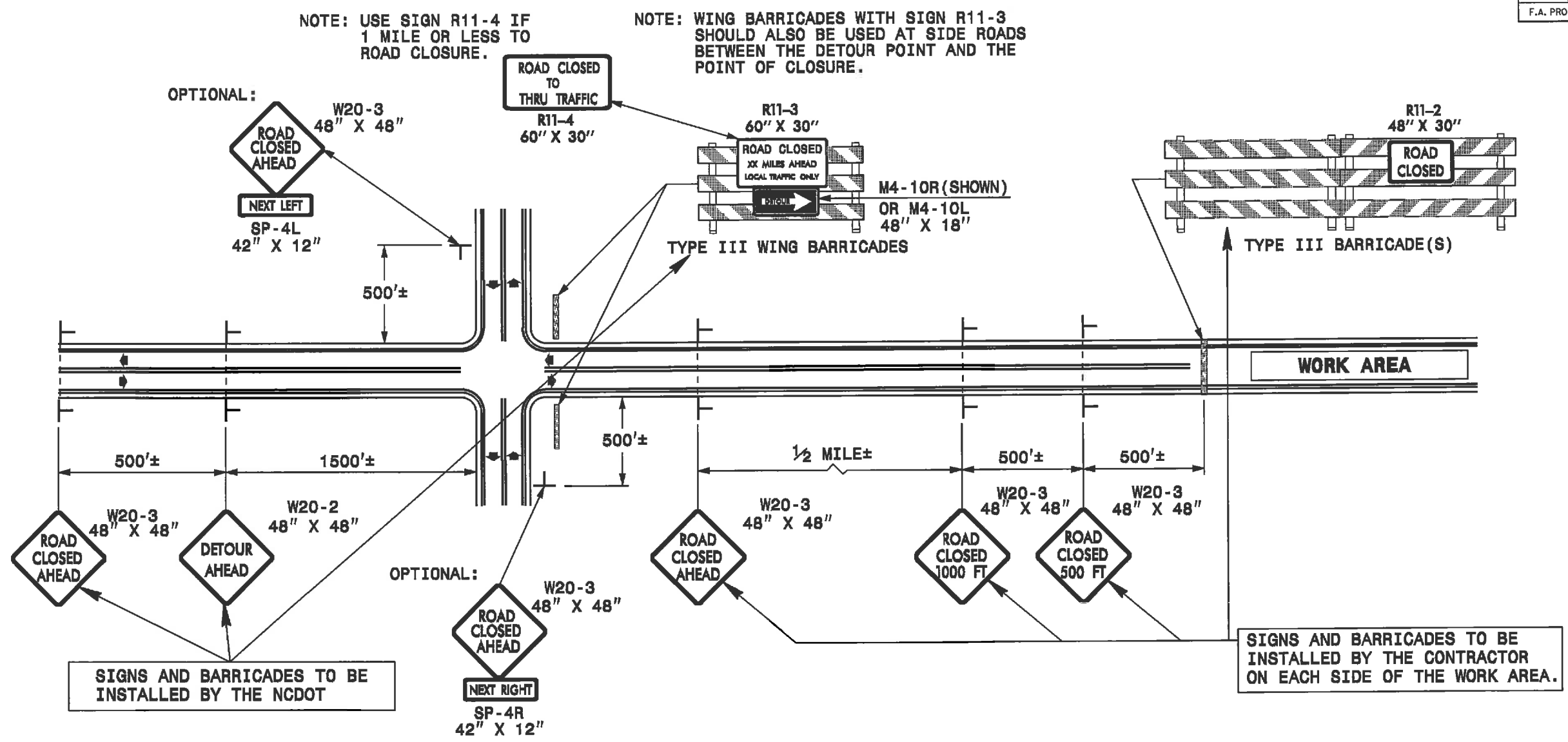
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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.4	TCP-1	
F.A. PROJECT NO.			



GENERAL NOTES

- 1-IF NECESSARY USE THIS STD. FOR TWO-LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- 2-INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY NCDOT FORCES UNLESS OTHERWISE DESIGNATED IN THE PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INSTALL DETOUR ROUTE SIGNS, INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS, OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
- 3-INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4-USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
- 5-DO NOT DISPLAY FRACTIONS OR DECIMALS ON SIGN R11-3 "ROAD CLOSED XX MILES AHEAD".
- 6-POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
- 7-USE PORTABLE SIGNS IF ROAD CLOSURE IS TO BE IMPLEMENTED FOR LESS THAN ONE DAY OR FOR EMERGENCIES.

LEGEND

┆ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

TEMPORARY ROAD CLOSURE
CLOSURE BEYOND DETOUR POINT

SCALE	-NA-		REVISIONS
DATE	1-19-10		
DWG. BY	TWB		
APPROVED	RWB		