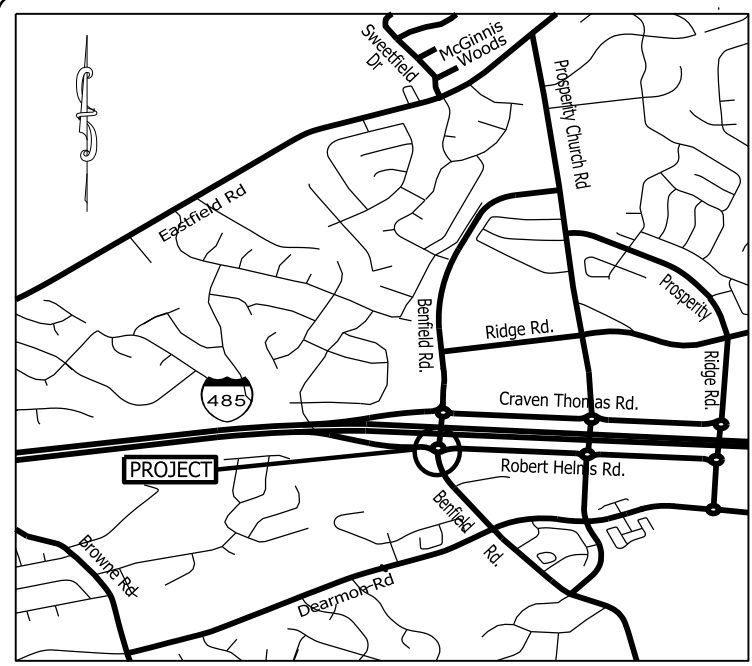


PROJECT: 48575.3.1 TIP: SM-5710J

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	48575.3.1	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48575.1.1		P.E.	
48575.2.1		R/W	
48575.3.1		CONST.	

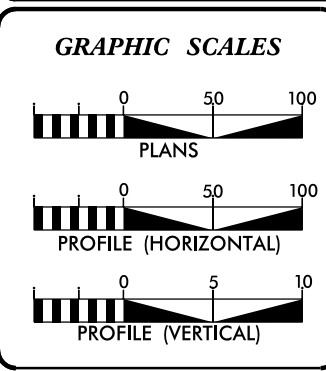
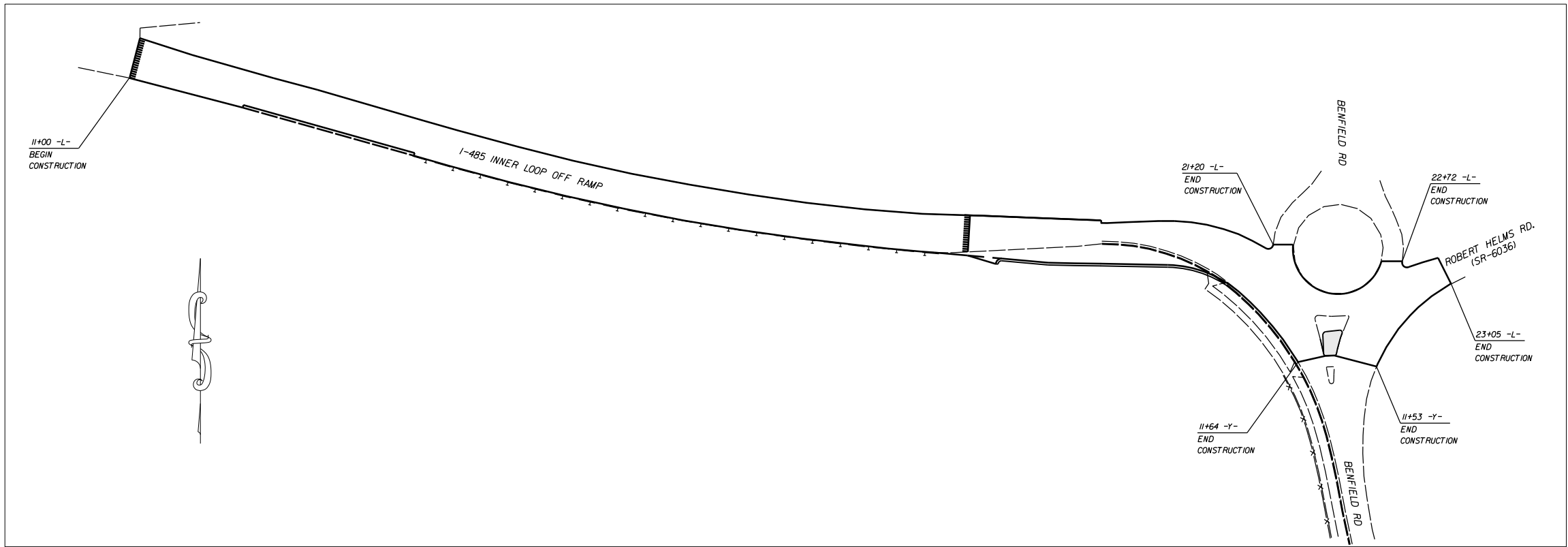
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY



VICINITY MAP NOT TO SCALE

LOCATION: INTERSECTION OF I-485 INNER LOOP RAMP, BENFIELD RD., AND ROBERT HELMS RD. (SR-6036)

TYPE OF WORK: GRADING, PAVING, MILLING, CURB & GUTTER, MONLITHIC CONCRETE ISLAND, THERMOPLASTIC PAVEMENT MARKINGS



DESIGN DATA

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

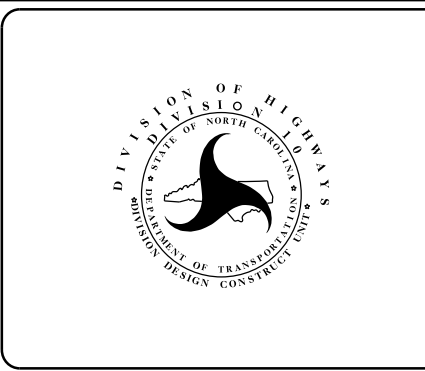
PROJECT LENGTH

LENGTH OF ROADWAY PROJECT	48575.3.1	=	0.23	MILES
TOTAL LENGTH OF STATE PROJECT	48575.3.1	=	0.23	MILES

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	DONALD HARWARD PROJECT ENGINEER
LETTING DATE:	TRAVIS LOWDER PROJECT DESIGN ENGINEER



ROADWAY DESIGN ENGINEER


DocuSigned by:
Michael E. Brock
A92E75CC0FFB43B...

SIGNATURE

SURVEY CONTROL SHEET

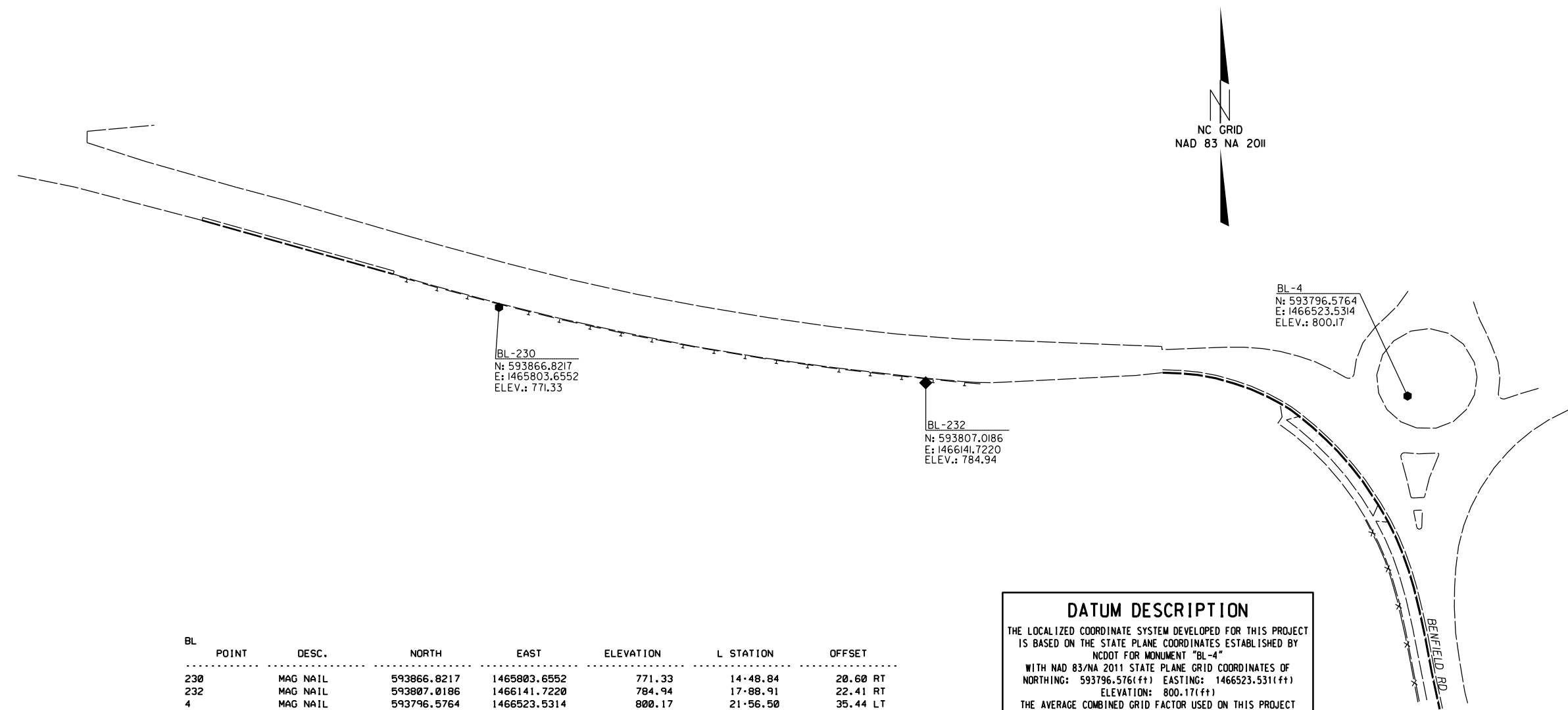
PROJECT NO.	SHEET NO.
48575.3.I	IA
F.A. PROJECT NO.	

ROADWAY DESIGN
ENGINEER



Documented by:
Michael J. DeBruin

A92E75CC0FFB43B...



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
230		MAG NAIL	593866.8217	1465803.6552	771.33	14+48.84	20.60 RT
232		MAG NAIL	593807.0186	1466141.7220	784.94	17+88.91	22.41 RT
4		MAG NAIL	593796.5764	1466523.5314	800.17	21+56.50	35.44 LT

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-4"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 593796.576(ft) EASTING: 1466523.531(ft)
 ELEVATION: 800.17(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987465


THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-4" TO -L- STATION 10+00 IS
 N 80° 12' 03" W 1167.05'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTES :

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT.
IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

I-485 INNER LOOP RAMP TO BENFIELD RD.
ROUNDABOUT WIDENING

SCALE	1"=50'		REVISIONS
DATE	5-2019		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		

PROPOSED ALIGNMENT SHEET

L			
TYPE	STATION	NORTH	EAST
PC	10+00.00	593995.2003	1465373.5069
PRC	13+00.29	593905.1731	1465742.8253
PT	19+20.00	593822.5236	1466274.5097
PC	20+36.12	593820.2840	1466390.6083
PRC	21+56.55	593772.4067	1466497.6092
PRC	22+35.52	593763.9292	1466569.7024
PT	22+74.71	593781.1877	1466604.7619
POT	23+15.99	593794.4378	1466643.8521

Y			
TYPE	STATION	NORTH	EAST
POT	10+00.00	593550.4874	1466561.3528
PC	11+47.85	593695.8165	1466534.1893
PT	11+78.83	593726.6645	1466532.4697
POT	12+06.91	593754.6729	1466534.5293

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this 5th day of June 2019

Barry D. Davis, Professional Land Surveyor
 DocuSigned by:
 Barry Davis
 PLS# L-4384
 0E2AAE4F48174DC...

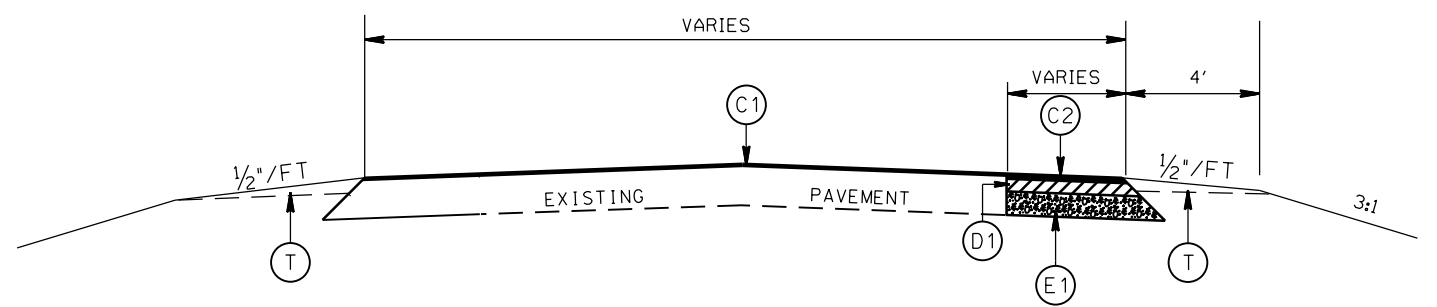
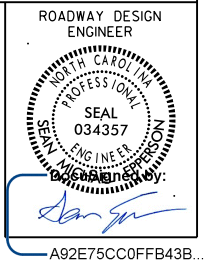


L									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	593995.200	1465373.507							
CURVE			S 76°18'01.6" E	380.13	05°44'02.3"(RT)	01°30'28.0"	380.29	190.30	3800.00
PCC	593905.173	1465742.825							
CURVE			S 81°09'51.0" E	538.07	15°27'41.2"(LT)	02°51'53.2"	539.71	271.50	2000.00
PT	593822.524	1466274.510							
LINE			S 88°53'41.6" E	116.12					
PC	593820.284	1466390.608							
CURVE			S 65°53'38.3" E	117.22	46°00'06.7"(RT)	38°11'49.9"	120.43	63.67	150.00
PCC	593772.407	1466497.609							
CURVE			S 83°17'36.1" E	72.59	80°48'02.4"(LT)	102°18'50.0"	78.97	47.66	56.00
PCC	593763.929	1466569.702							
CURVE			N 63°47'26.7" E	39.08	14°58'08.0"(RT)	38°11'49.9"	39.19	19.71	150.00
PT	593781.188	1466604.762							
LINE			N 71°16'30.7" E	41.27					
POT	593794.438	1466643.852							

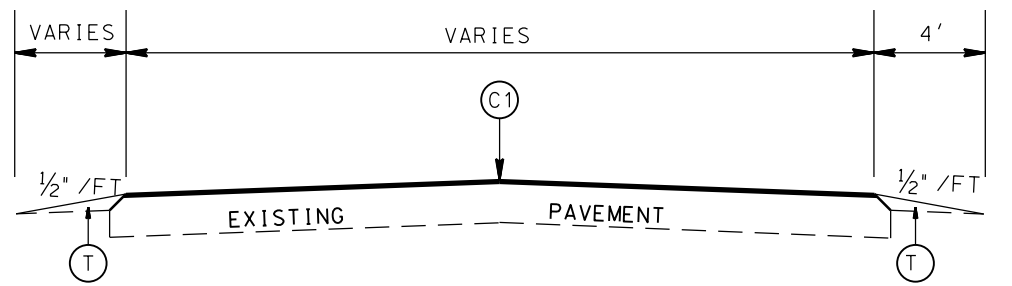
Y									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	593550.487	1466561.353							
LINE			N 10°35'13.2" W	147.85					
PC	593695.817	1466534.189							
CURVE			N 03°11'26.3" W	30.90	14°47'33.8"(RT)	47°44'47.3"	30.98	15.58	120.00
PT	593726.664	1466532.470							
LINE			N 04°12'20.6" E	28.08					
POT	593754.673	1466534.529							

I-485 INNER LOOP RAMP TO BENFIELD RD.
 ROUNDABOUT WIDENING

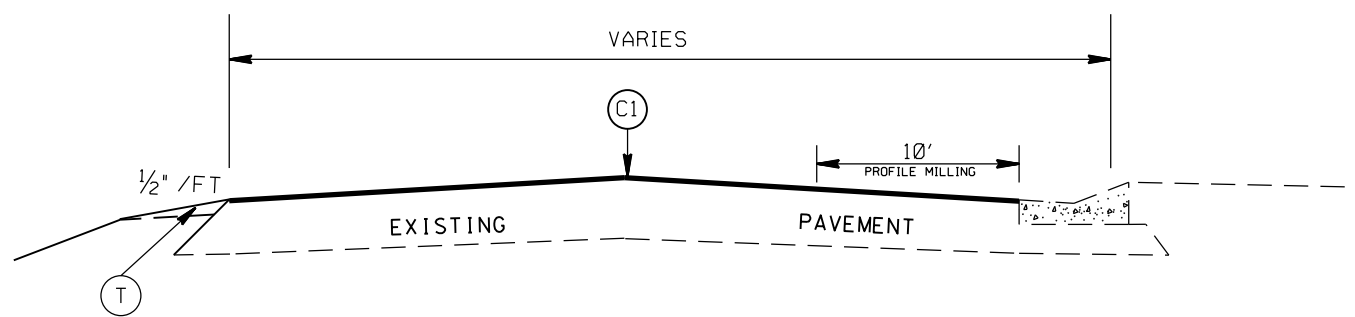
SCALE	N/A		REVISIONS
DATE	5-2019		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		



TYPICAL SECTION NO. 3
STA. 18+28.24 TO 18+57.00 -L-



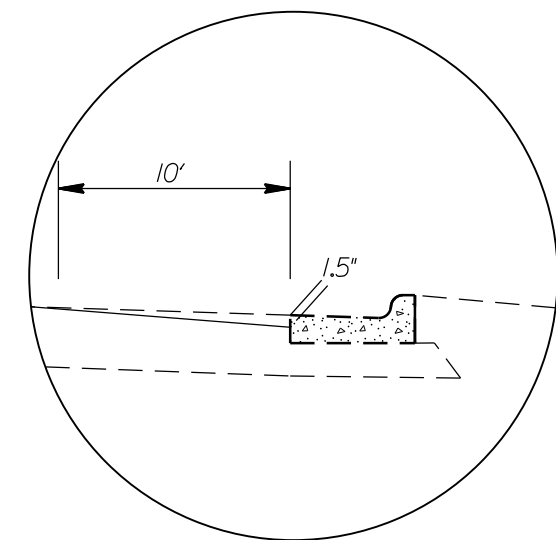
TYPICAL SECTION NO. 2
STA. 13+62.00 TO 18+28.24 -L-



TYPICAL SECTION NO. 1
STA. 11+00.00 TO STA. 13+62.00 -L-

PAVEMENT SCHEDULE

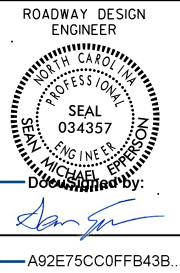
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5½" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH



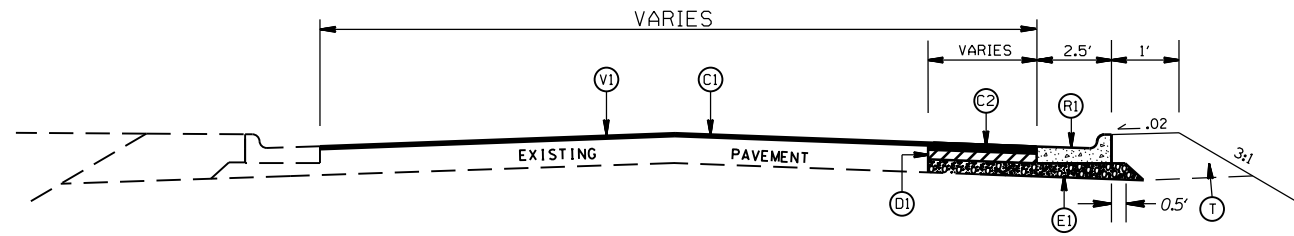
DETAIL FOR PROFILE MILLING (0" TO 1.5")

I-485 INNER LOOP RAMP TO BENFIELD RD. ROUNDBOUT WIDENING	
SCALE	N/A
DATE	5-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH
REVISIONS	

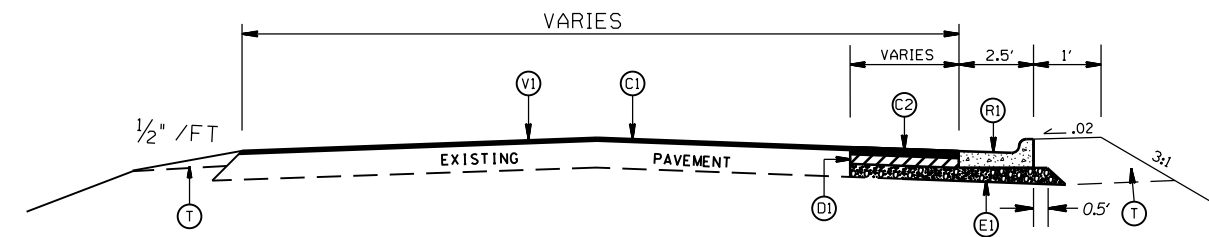




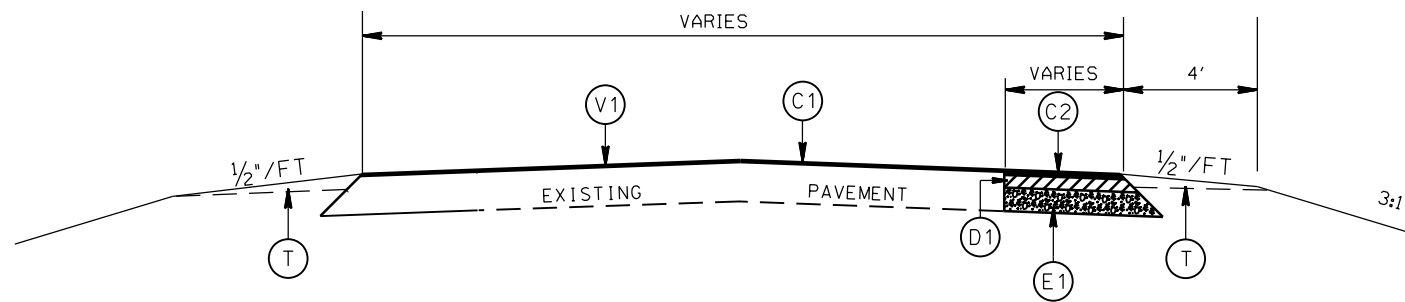
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TYPICAL SECTION NO. 6
STA. 19+74.15 TO 21+21.00 -L-



TYPICAL SECTION NO. 5
STA. 18+82.00 TO 19+74.15 -L-



TYPICAL SECTION NO. 4
STA. 18+57.00 TO 18+82.00 -L-

PAVEMENT SCHEDULE

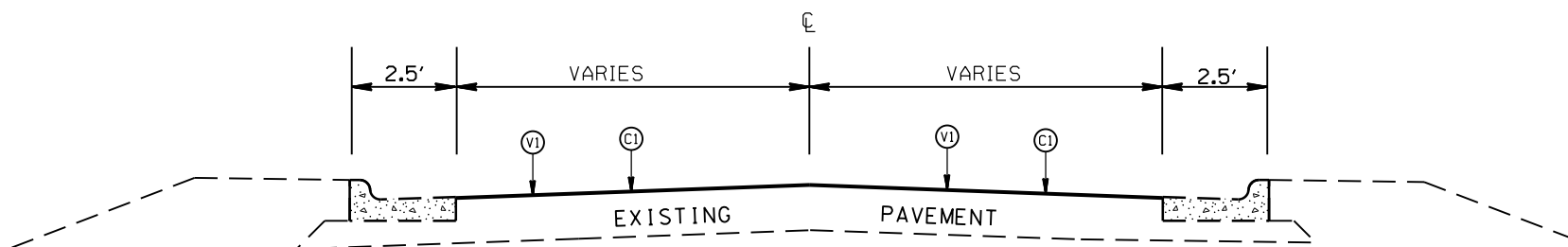
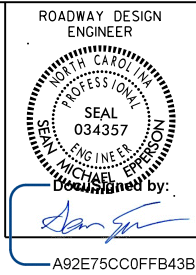
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5½" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

I-485 INNER LOOP RAMP TO BENFIELD RD.
ROUNDBOUT WIDENING

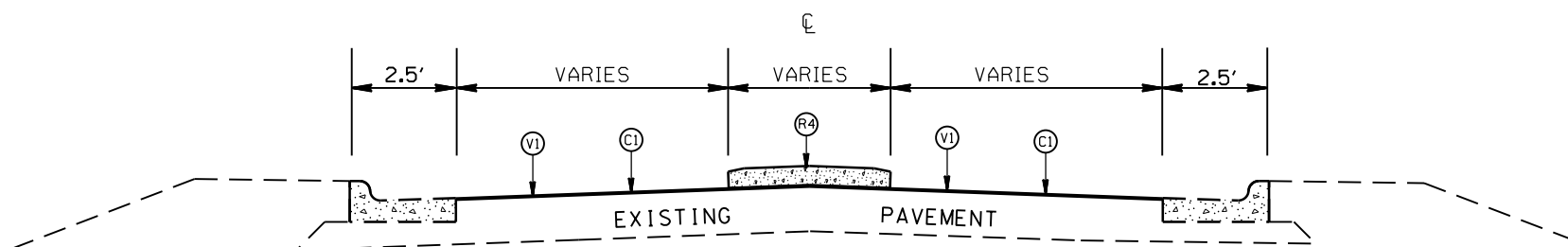
SCALE	N/A
DATE	5-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH



REVISIONS	



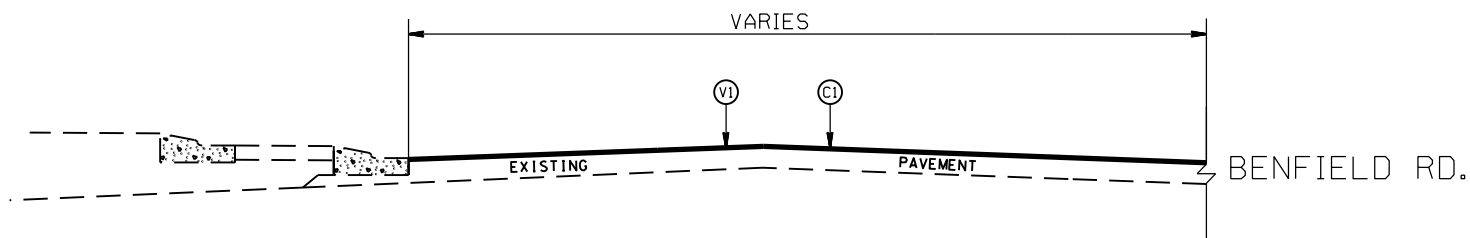
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STA. 11+89.99 TO 12+06.91 -Y-



TYPICAL SECTION NO. 8
STA. 11+68.16 TO 11+89.99 -Y-

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. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(D1)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5½" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(R1)	PROP. 2'-6" CONC. CURB & GUTTER
(R4)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH



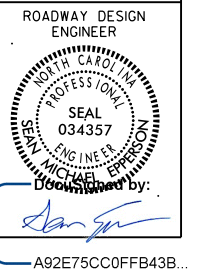
TYPICAL SECTION NO. 7
STA. 21+21.00 TO 23+05.00 -L-

I-485 INNER LOOP RAMP TO BENFIELD RD.
ROUNDBOUT WIDENING

SCALE	N/A
DATE	5-2019
DWG. BY	JCB
DESIGN BY	JDH
APPROVED	JDH



REVISIONS	



PI Sta 11+90.30-L-
 $\Delta = 5^{\circ} 44' 02.3''$ (RT)
 D = 1' 30' 28.0"
 L = 380.29'
 T = 190.30'
 R = 3,800.00'

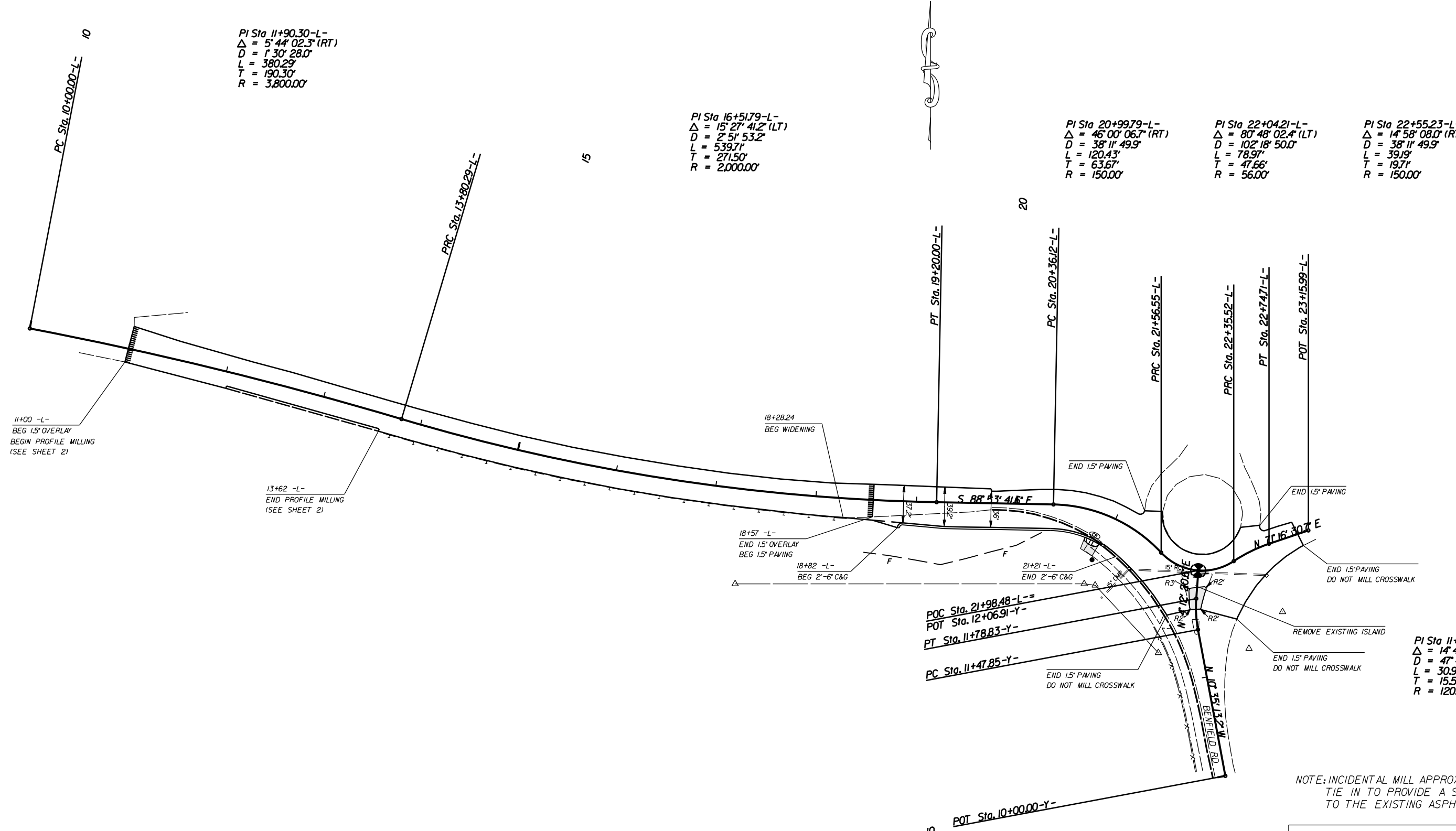
PI Sta 16+51.79-L-
 $\Delta = 15^{\circ} 27' 41.2''$ (LT)
 D = 2' 51' 53.2"
 L = 539.71'
 T = 271.50'
 R = 2,000.00'

PI Sta 20+99.79-L-
 $\Delta = 46^{\circ} 00' 06.7''$ (RT)
 D = 38' 11' 49.9"
 L = 120.43'
 T = 63.67'
 R = 150.00'


PI Sta 22+04.21-L-
 $\Delta = 80^{\circ} 48' 02.4''$ (LT)
 D = 102' 18' 50.0"
 L = 78.97'
 T = 47.66'
 R = 56.00'

PI Sta 22+55.23-L-
 $\Delta = 14^{\circ} 58' 08.0''$ (RT)
 D = 38' 11' 49.9"
 L = 39.19'
 T = 19.71'
 R = 150.00'

PI Sta 11+63.42-Y-
 $\Delta = 14^{\circ} 47' 33.8''$ (RT)
 D = 47' 44' 47.3"
 L = 30.98'
 T = 15.58'
 R = 120.00'




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

1-485 INNER LOOP RAMP TO BENFIELD RD. ROUNDABOUT WIDENING	
SCALE	1"=50'
DATE	5-2019
DWG. BY	TBL
DESIGN BY	JDH
APPROVED	JDH
	REVISIONS

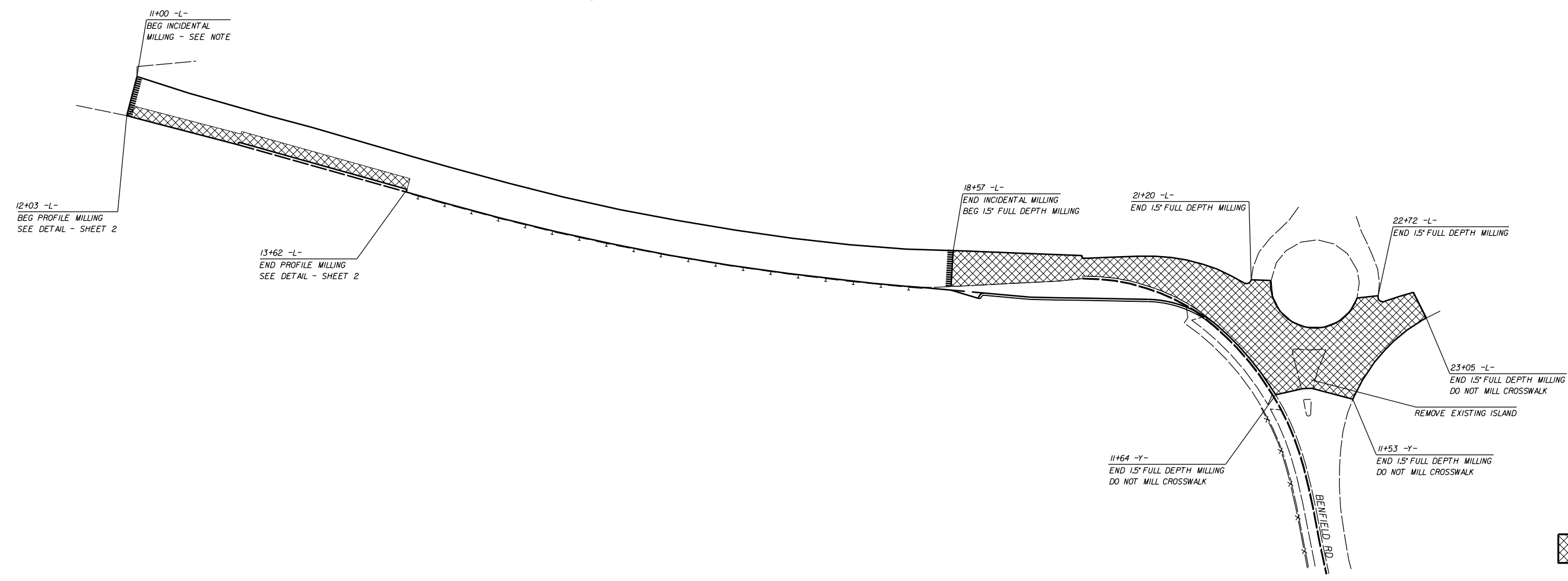
PROJECT NO.	SHEET NO.
48575.3.I	5
F.A. PROJECT NO.	

ROADWAY DESIGN ENGINEER



Michael J. Johnson


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 1.5" FULL DEPTH MILLING AREA

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

I-485 INNER LOOP RAMP TO BENFIELD RD.
ROUNDAABOUT WIDENING

SCALE	r=50'		REVISIONS
DATE	5-2019		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	JDH		

TIP PROJECT: SM-5710J

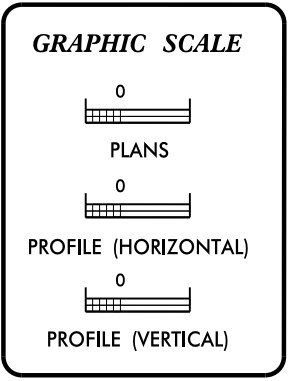
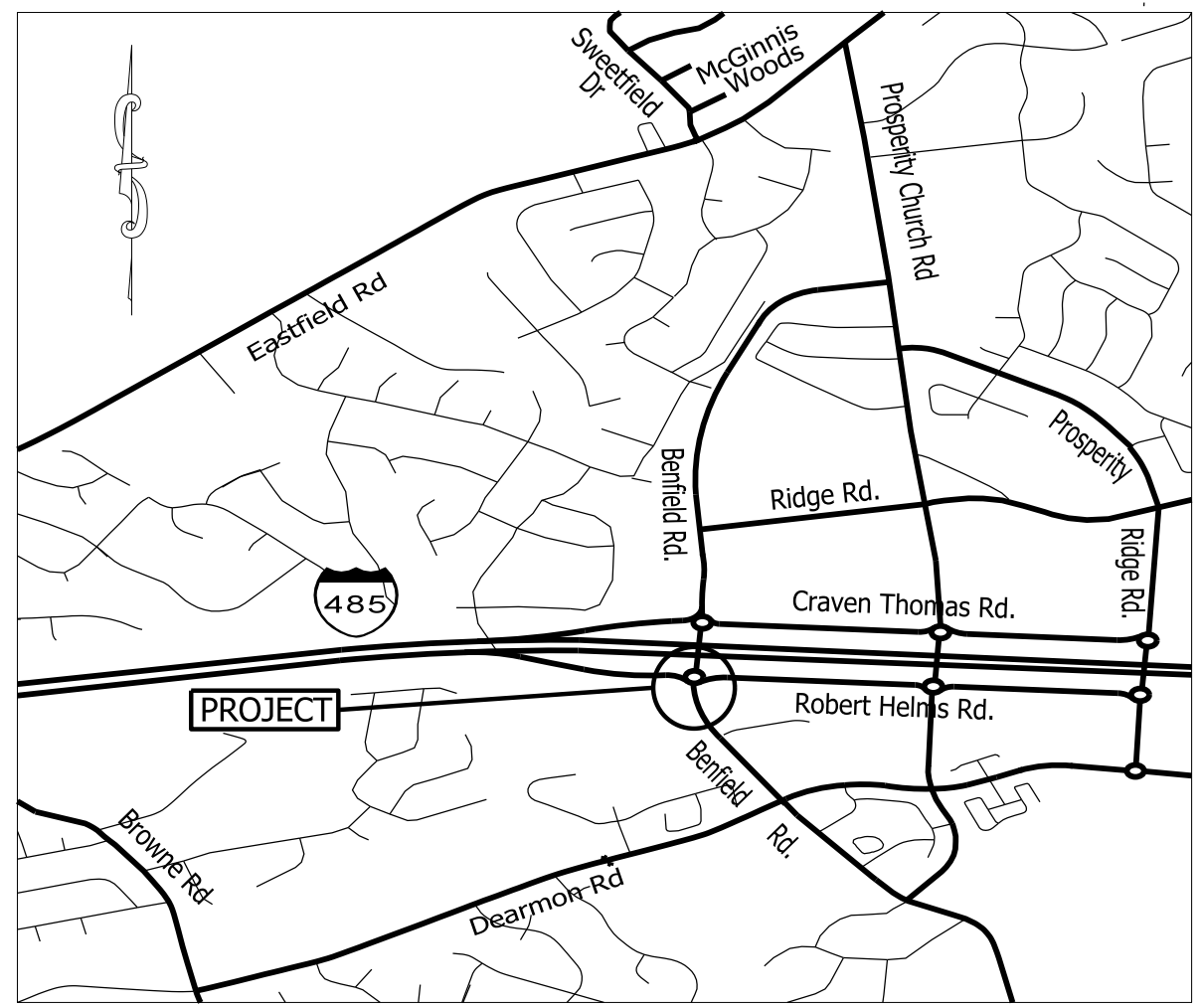
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	48575.3.1	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48575.1.1		P.E.	
48575.2.1		RW	
48575.3.1		CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	T
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	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

2018 STANDARD SPECIFICATIONS

Designed by:

CHAD BURRIS 4159

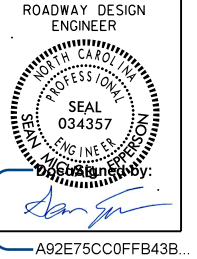
NAME LEVEL III CERTIFICATION NO.

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 2018 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 J
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 J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
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 J
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

M:\5710J\1-485-EC\1630\1630.dwg 10-MAY-2018 07:45 JEB:cock AT:BMVB-5710J



PI Sta 11+90.30-L-
 $\Delta = 5^{\circ} 44' 02.3''$ (RT)
 D = 1' 30' 28.0"
 L = 380.29'
 T = 190.30'
 R = 3,800.00'

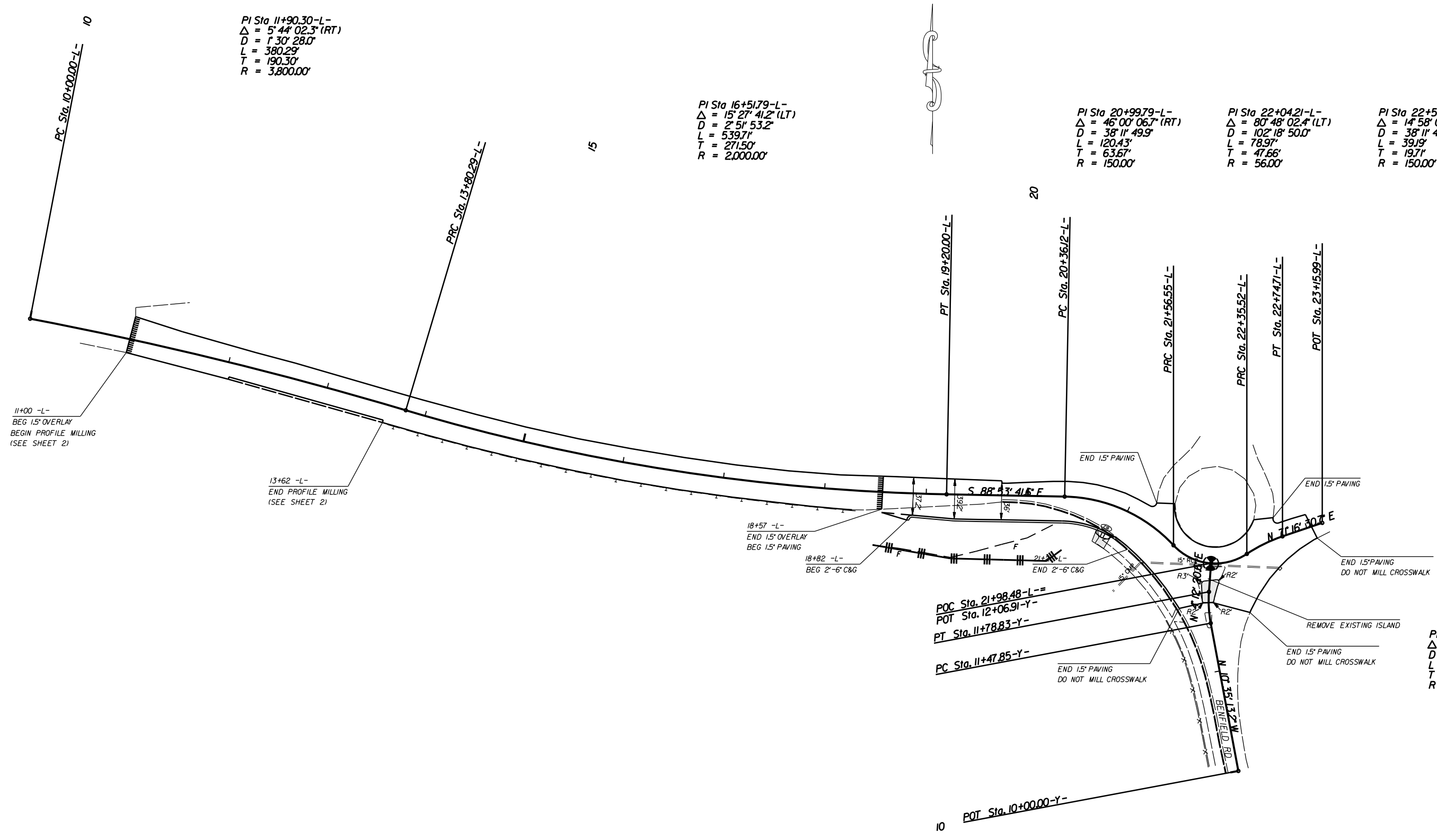
PI Sta 16+51.79-L-
 $\Delta = 15^{\circ} 27' 41.2''$ (LT)
 D = 2' 51' 53.2"
 L = 539.71'
 T = 271.50'
 R = 2,000.00'

PI Sta 20+99.79-L-
 $\Delta = 46^{\circ} 00' 06.7''$ (RT)
 D = 38' 11' 49.9"
 L = 120.43'
 T = 63.67'
 R = 150.00'

PI Sta 22+04.21-L-
 $\Delta = 80^{\circ} 48' 02.4''$ (LT)
 D = 102' 18' 50.0"
 L = 78.97'
 T = 47.66'
 R = 56.00'

PI Sta 22+55.23-L-
 $\Delta = 14^{\circ} 58' 08.0''$ (RT)
 D = 38' 11' 49.9"
 L = 39.19'
 T = 19.71'
 R = 150.00'

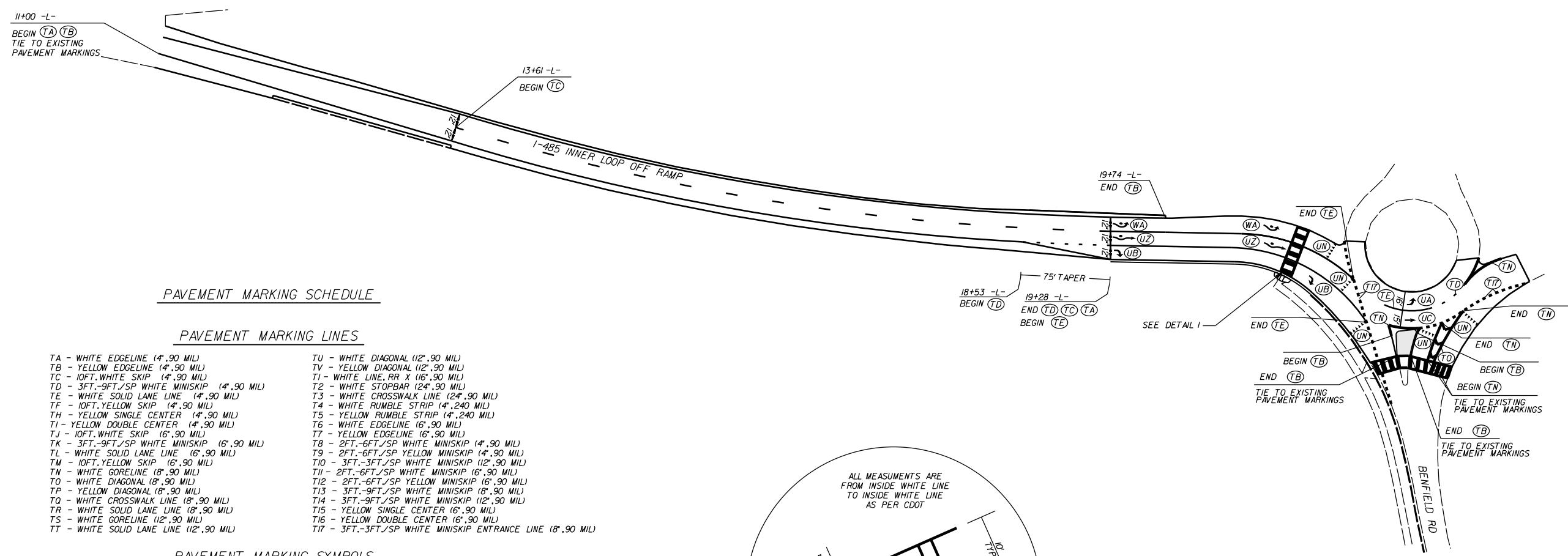
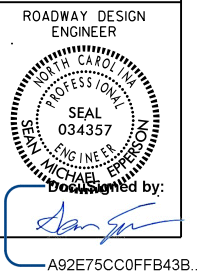
PI Sta 11+63.42-Y-
 $\Delta = 14^{\circ} 47' 33.8''$ (RT)
 D = 47' 44' 47.3"
 L = 30.98'
 T = 15.58'
 R = 120.00'



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

I-485 INNER LOOP RAMP TO BENFIELD RD.
 ROUNDABOUT WIDENING

SCALE	r=50'		REVISIONS
DATE	5-2019		
DWG. BY	TBL		
DESIGN BY	JDH		
APPROVED	JDH		



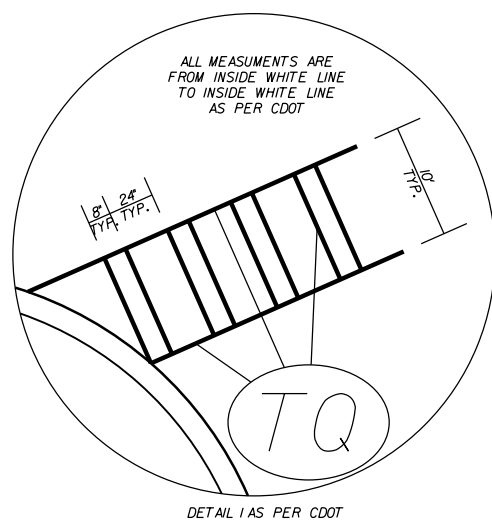
PAVEMENT MARKING SCHEDULE

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

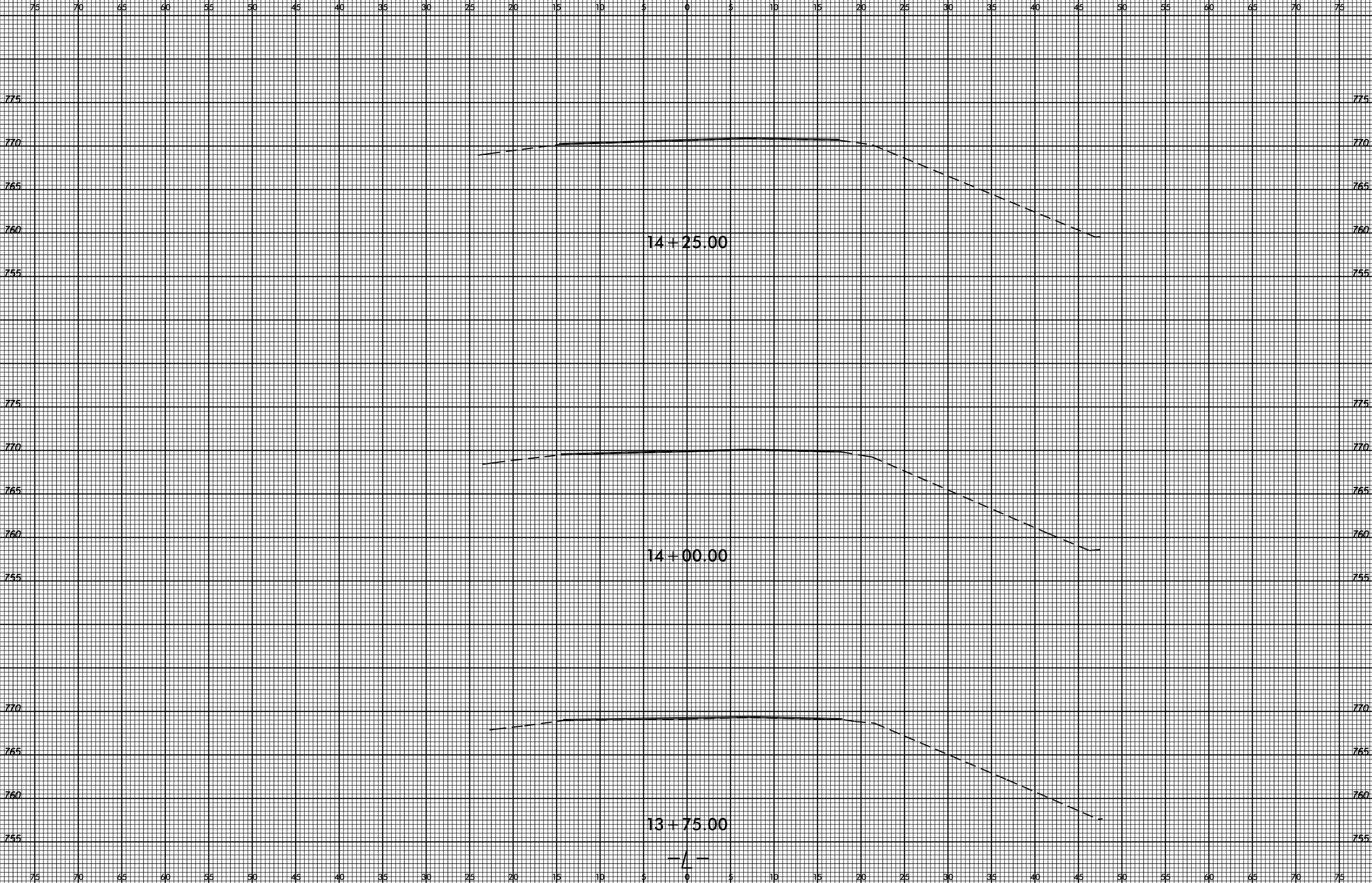
PAVEMENT MARKING SYMBOLS

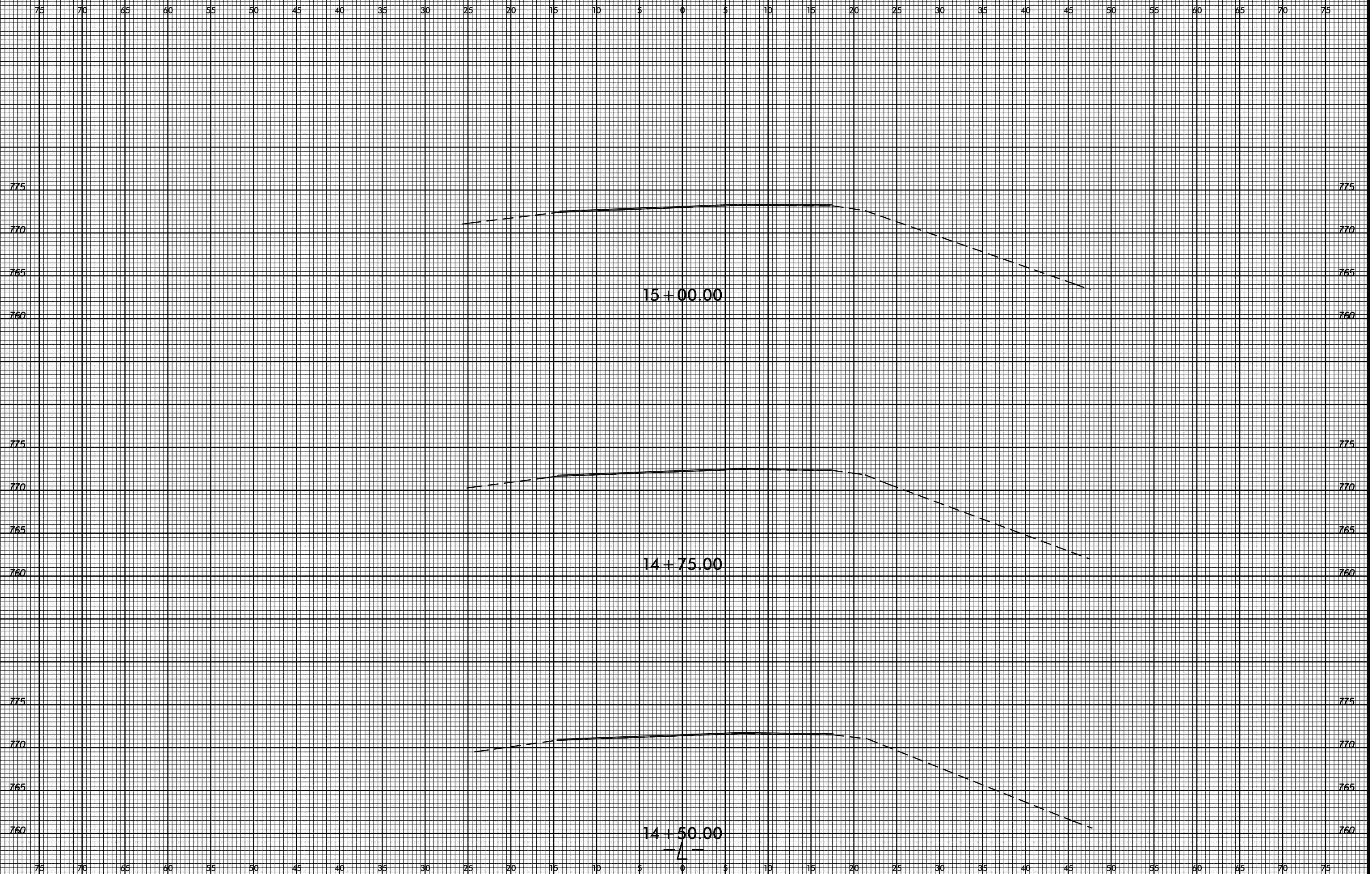
- | | |
|--|--|
| UA - LEFT TURN ARROW (90 MIL) | UU - FISH-HOOK STRAIGHT ARROW (90 MIL) |
| UB - RIGHT TURN ARROW (90 MIL) | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL) |
| UC - STRAIGHT ARROW (90 MIL) | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL) |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL) | UX -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

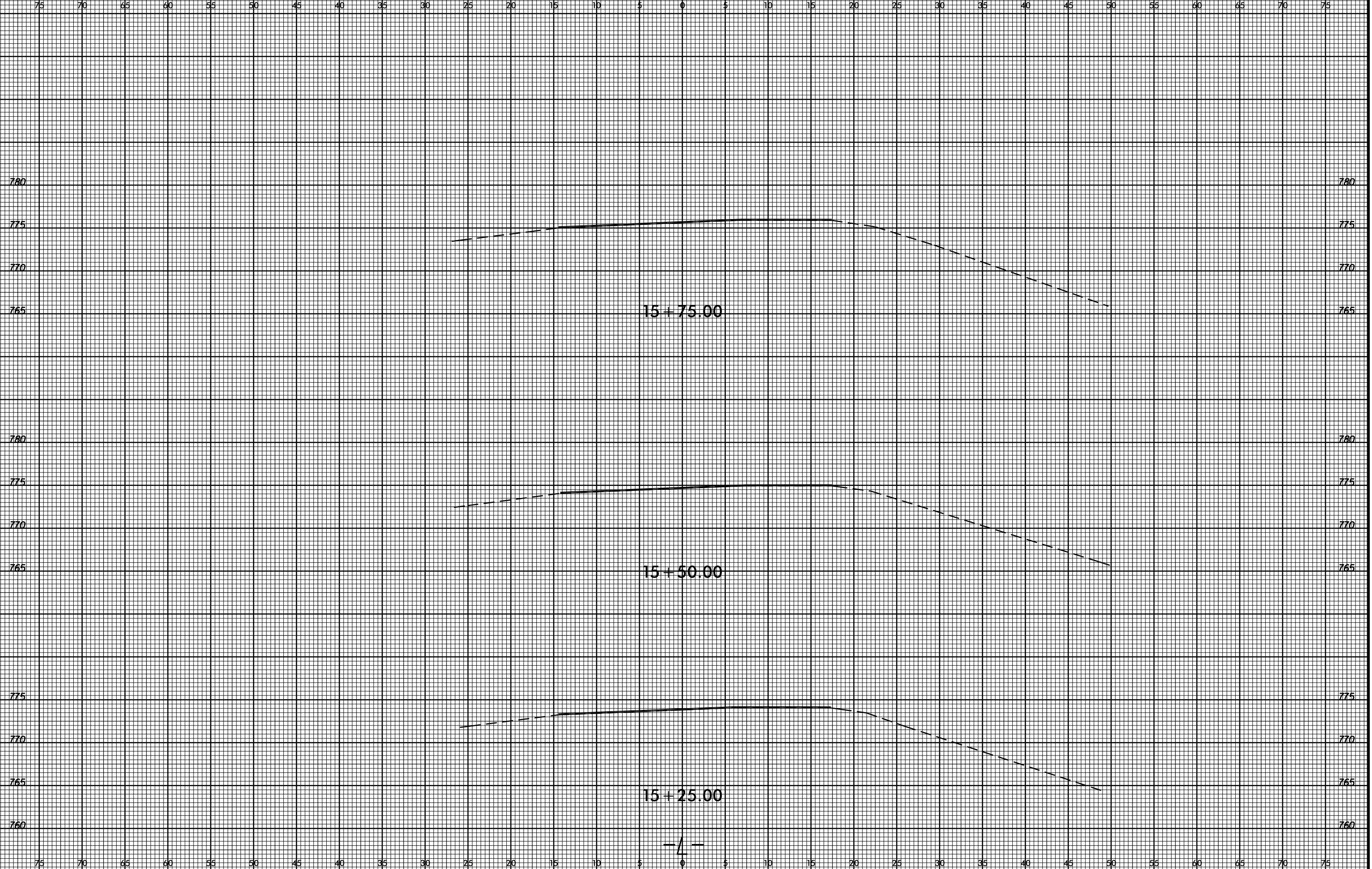


I-485 INNER LOOP TO BENEFIELD RD.
ROUNDBOUT WIDENING

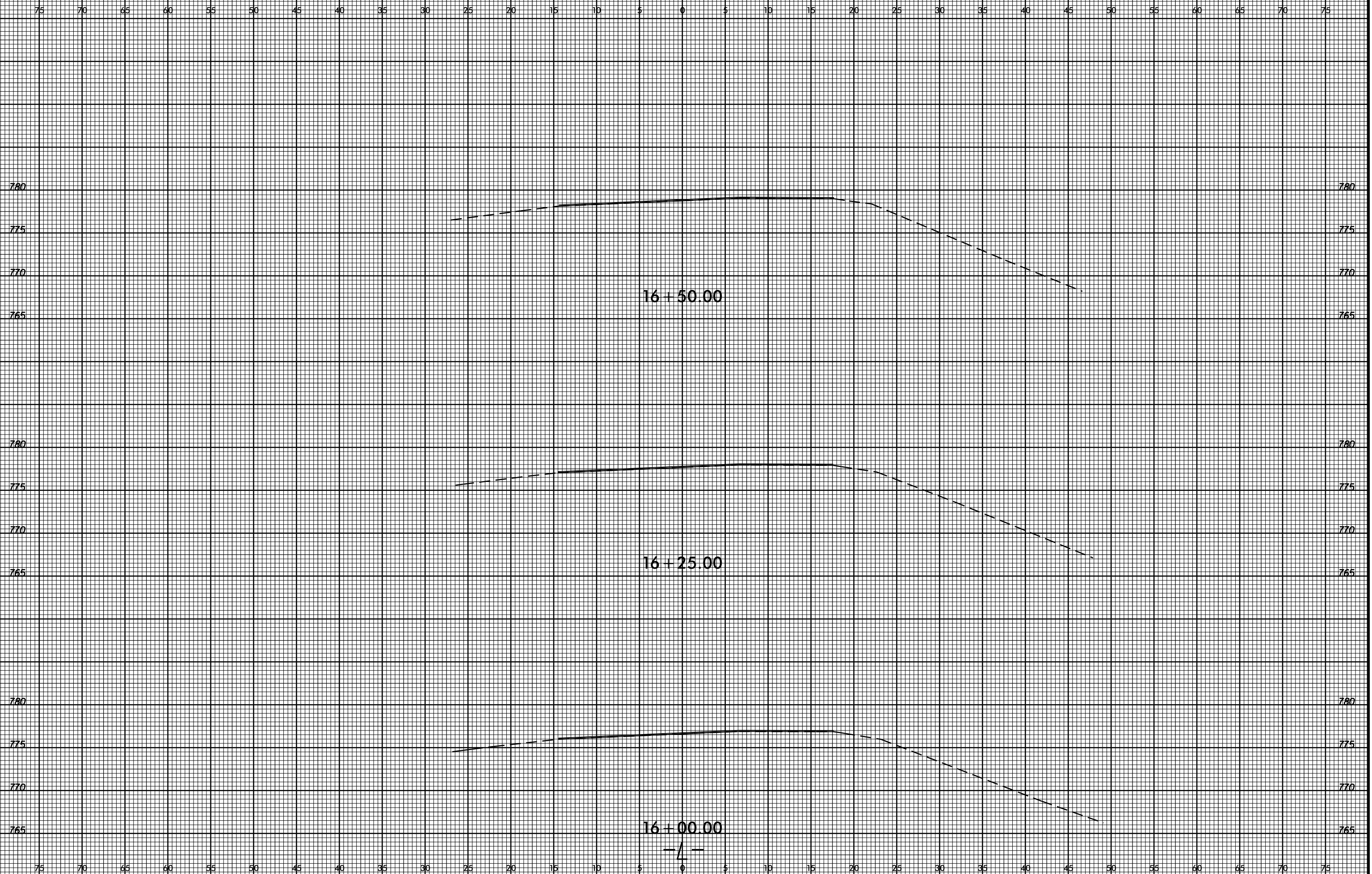
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DATE	5-2019		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		

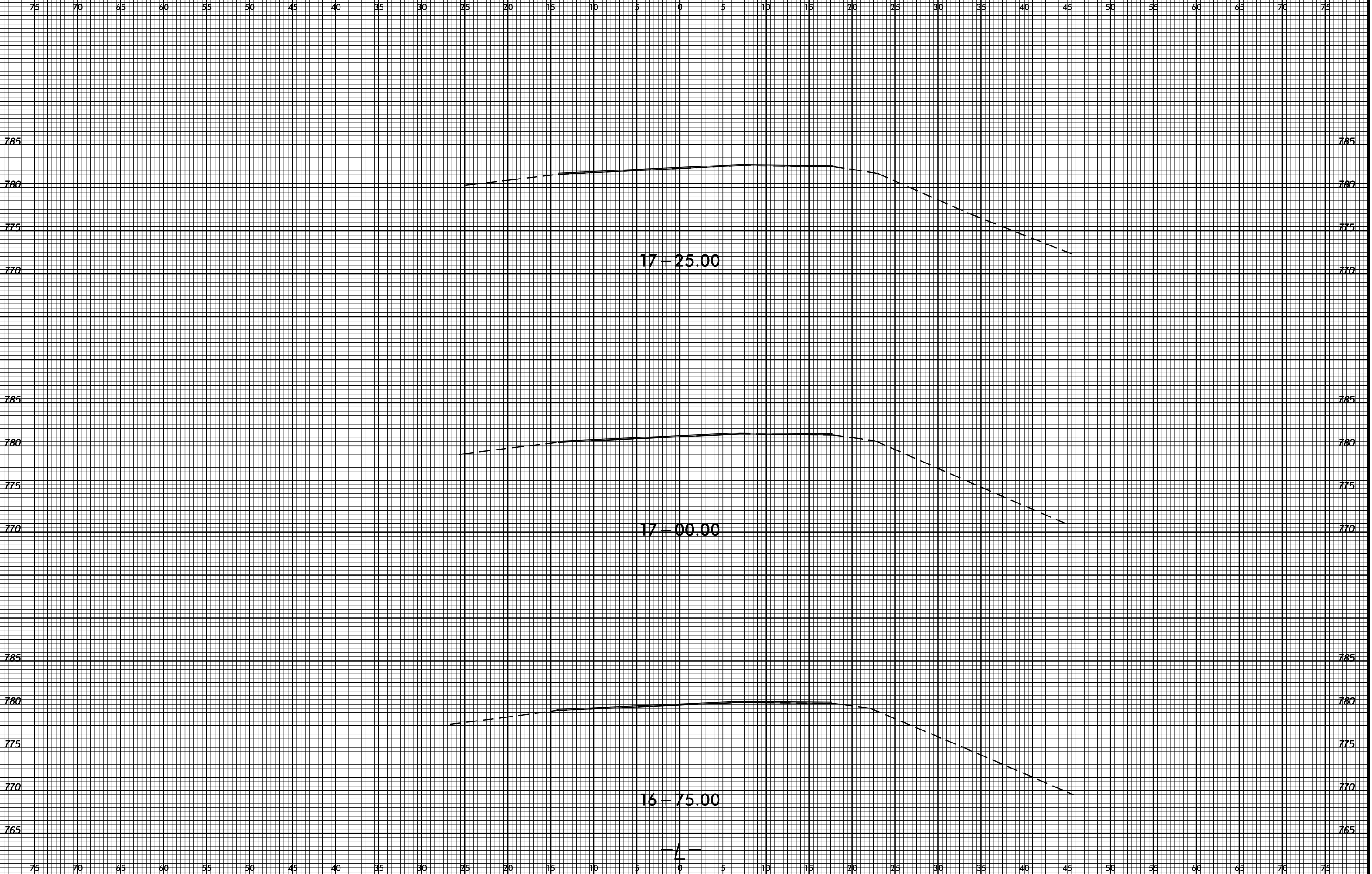


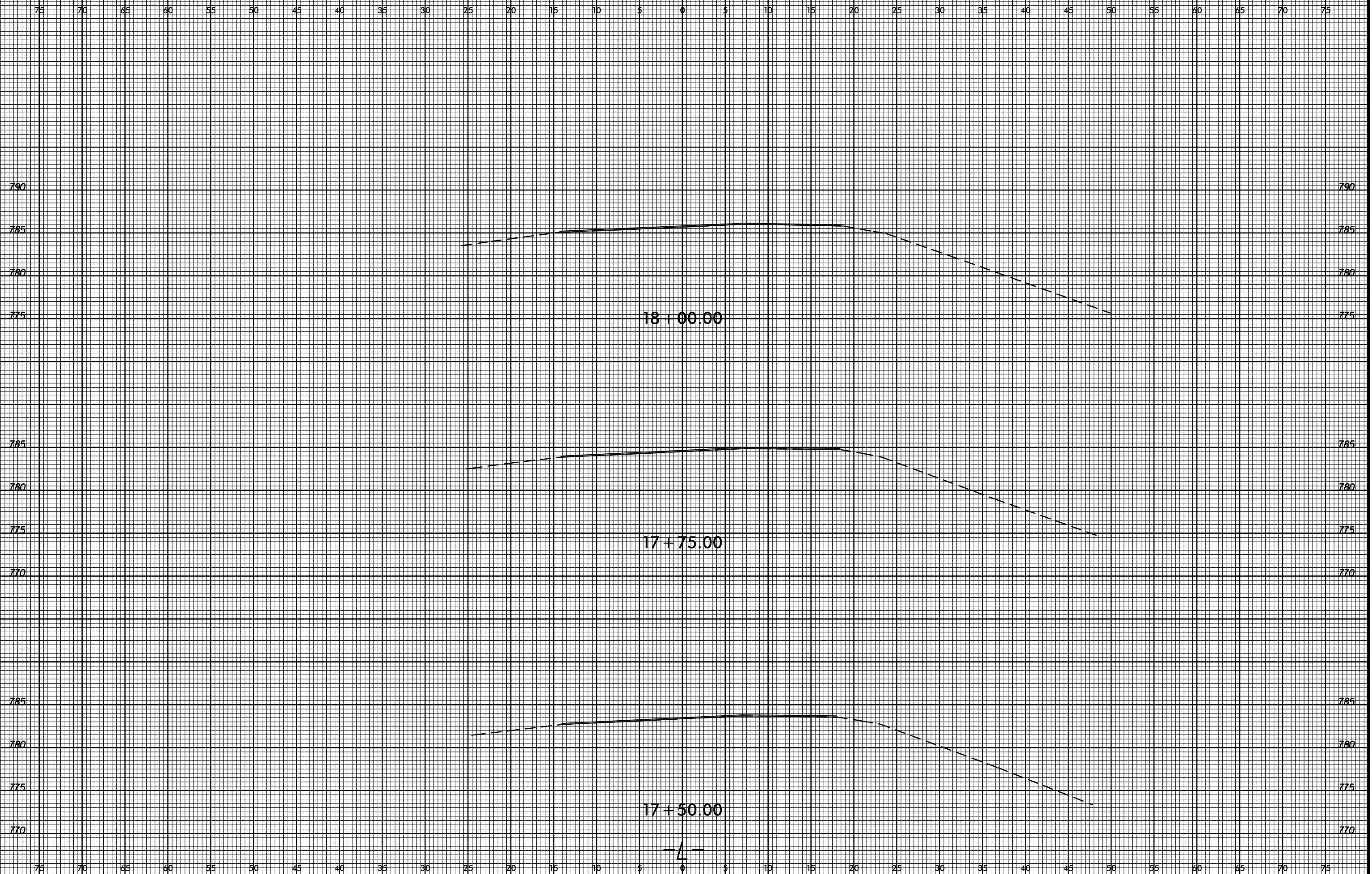




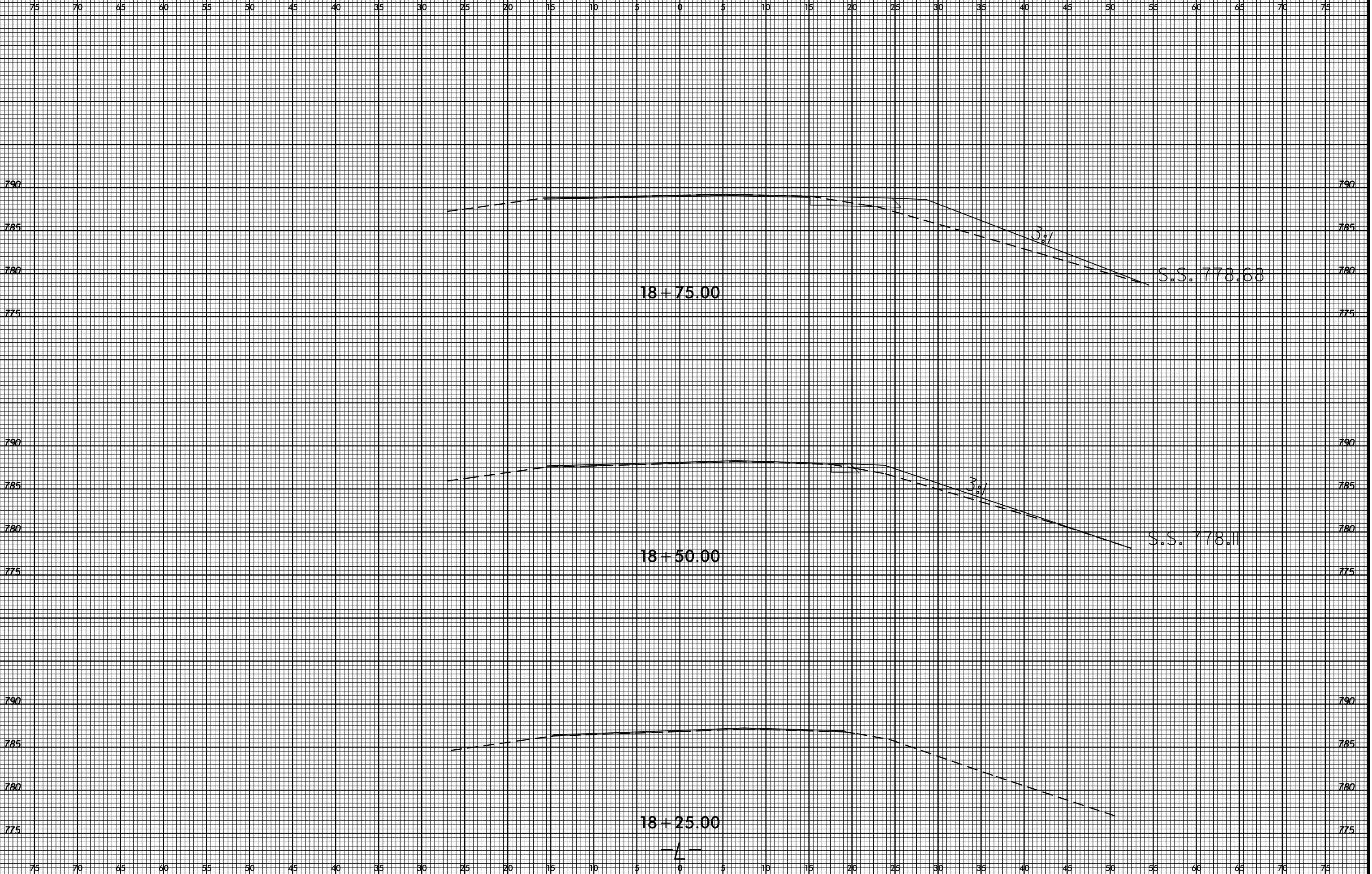
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AT 0102-31737
icbrooks



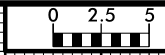




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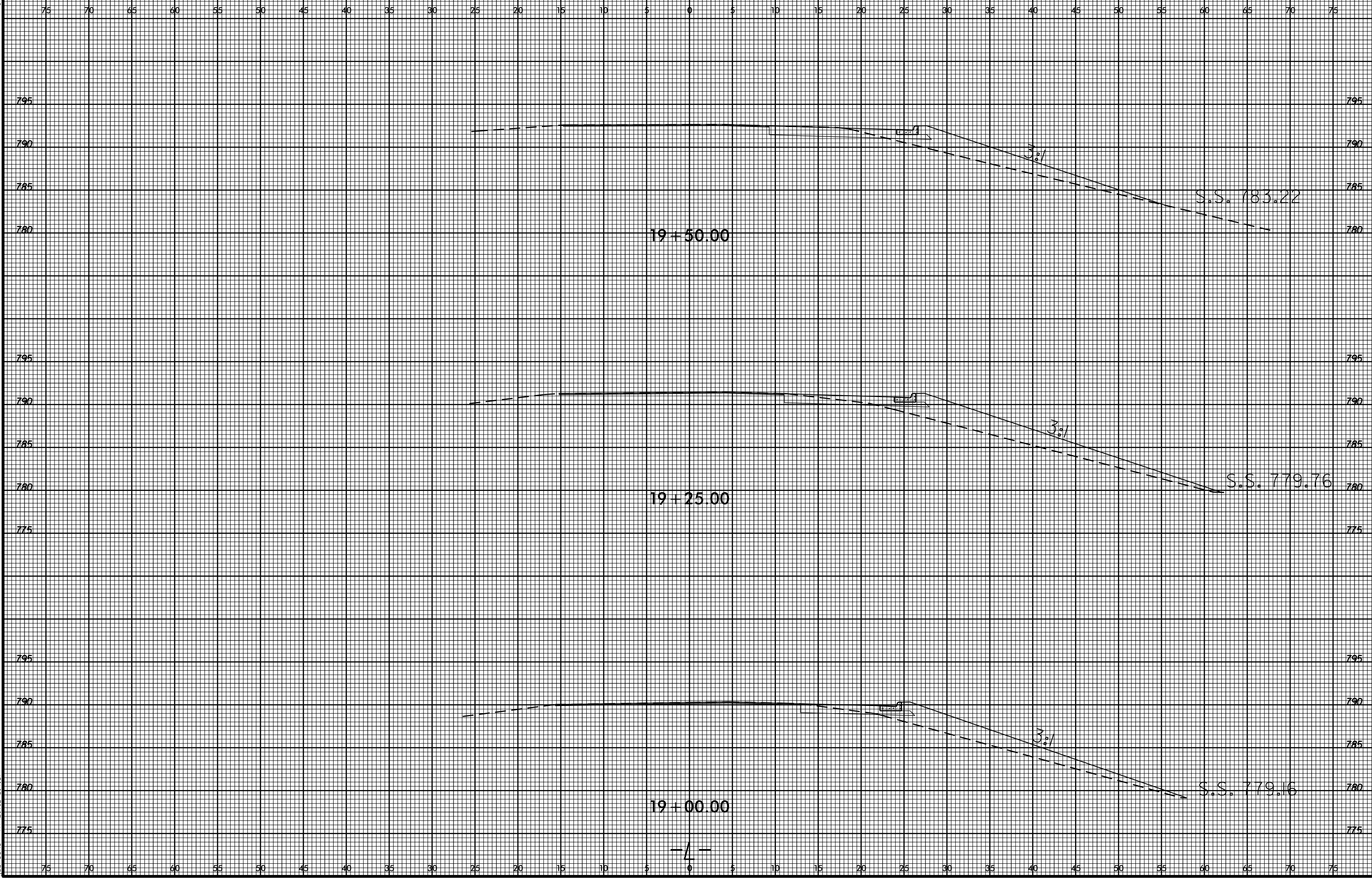


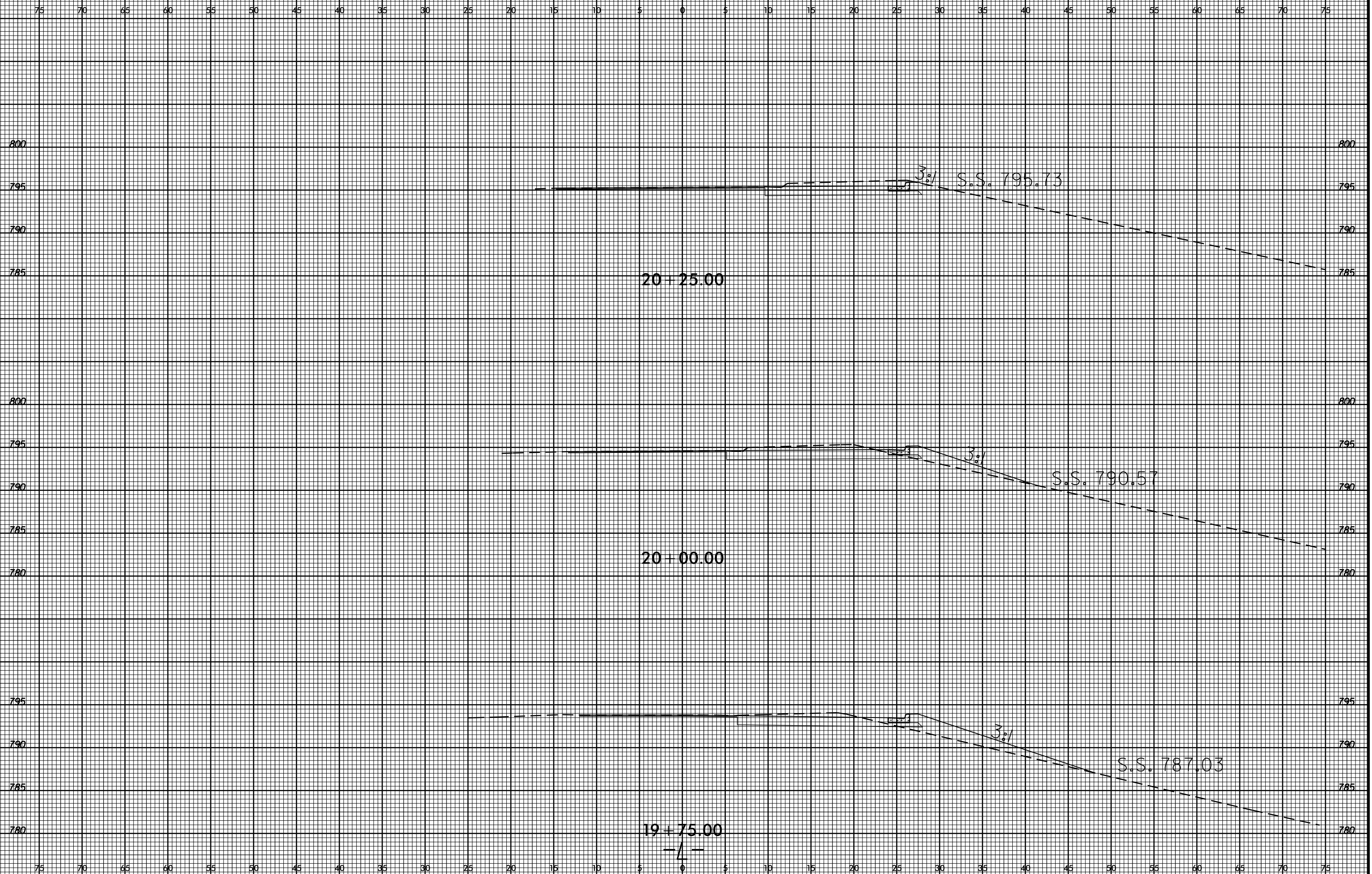
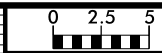
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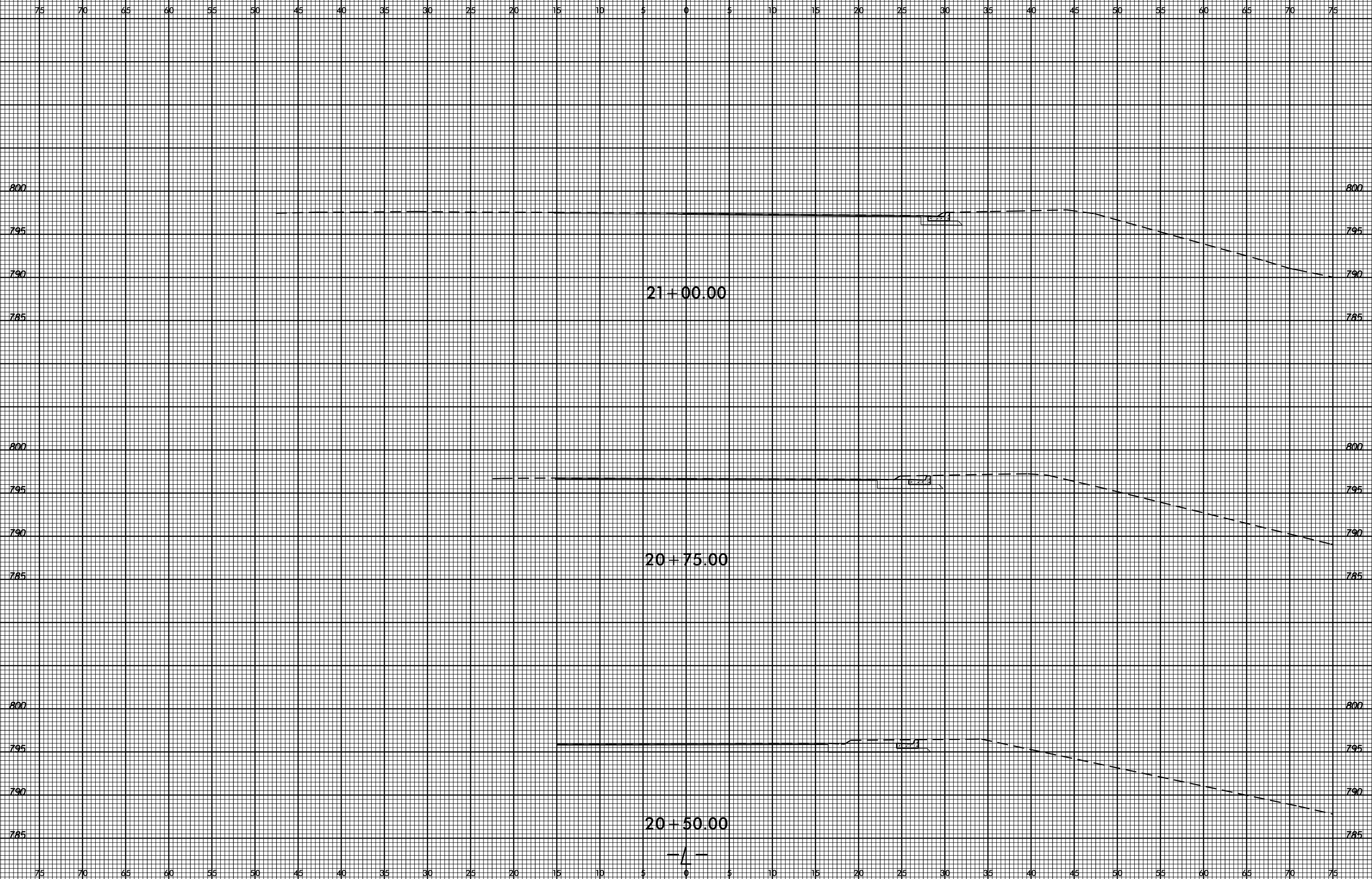


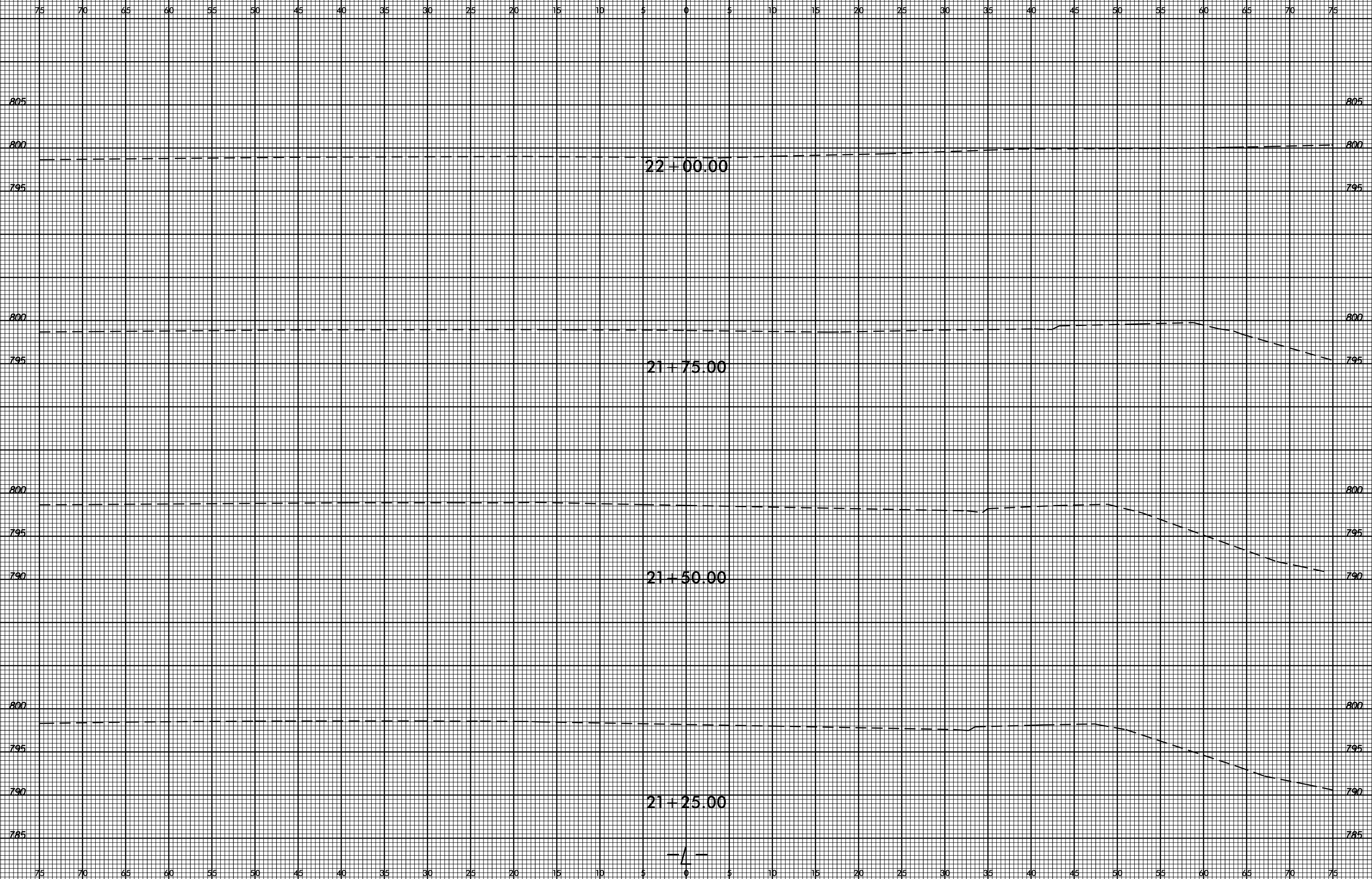
PROJ. REFERENCE NO.
48575.3.1

SHEET NO.
X-8









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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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23+00.00

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