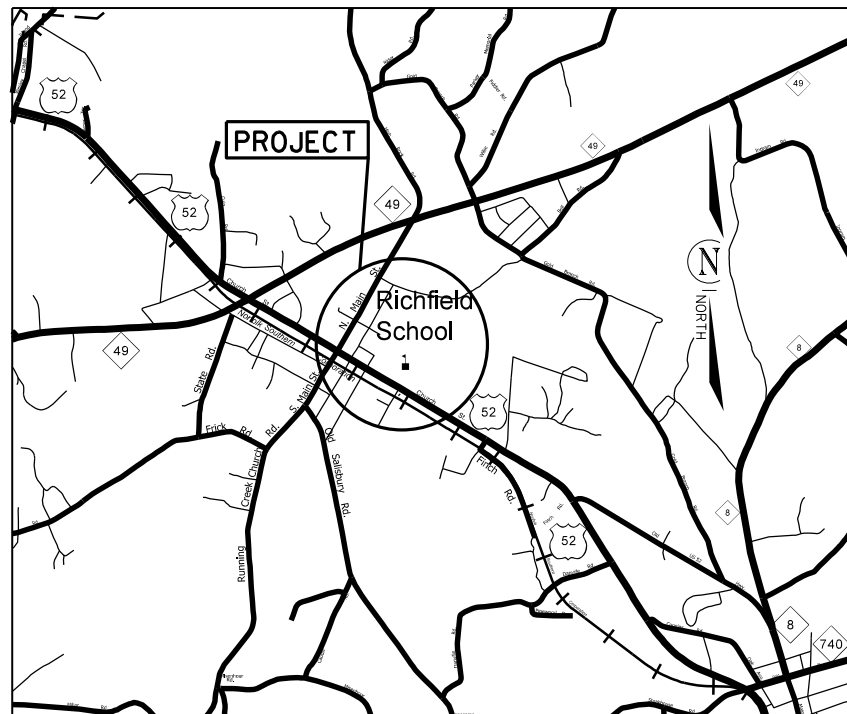


PROJECT: 48909.3.1 TIP: SM-5710M



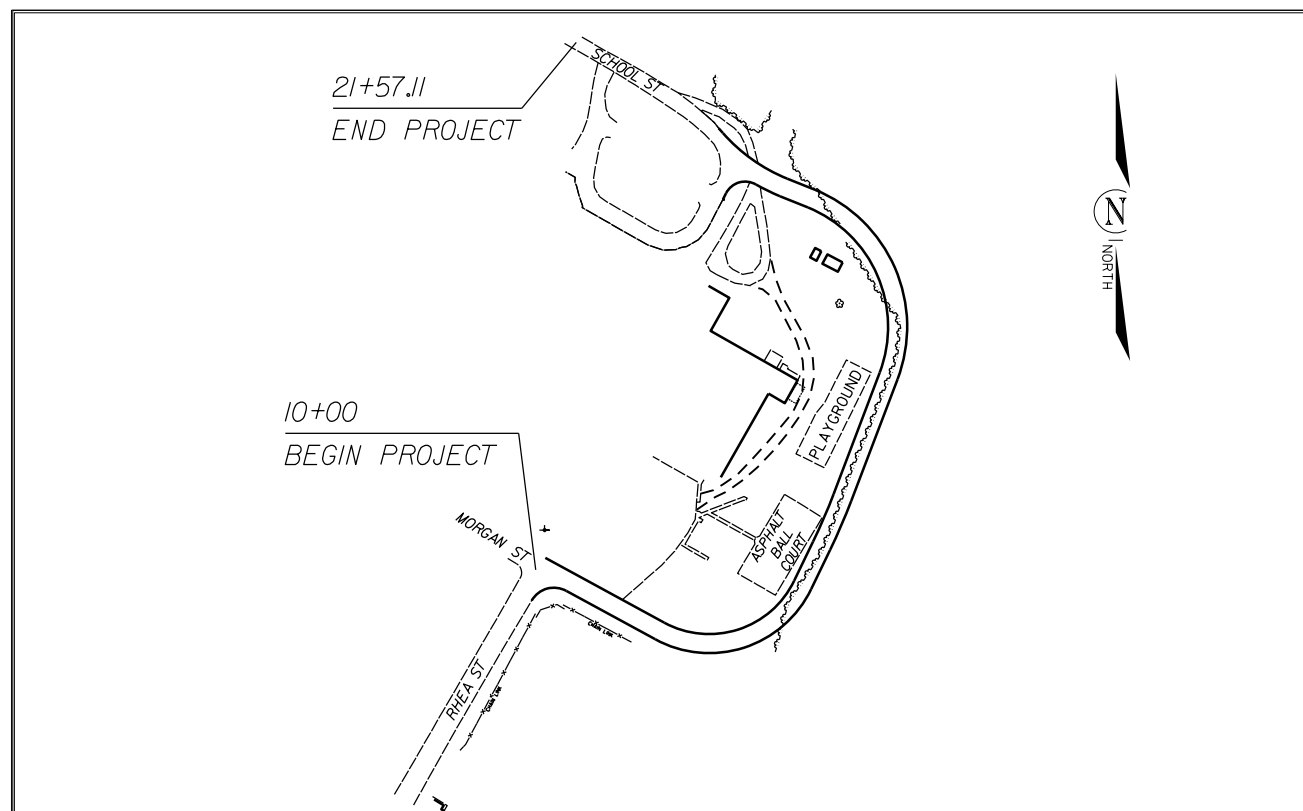
VICINITY MAP NOT TO SCALE

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

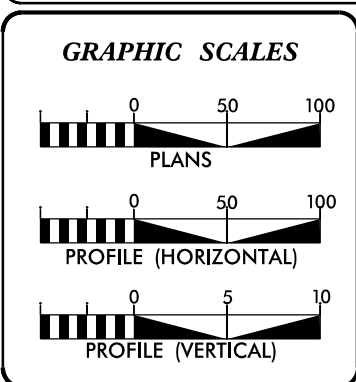
**LOCATION:** NEW DRIVEWAY FOR RICHFIELD ELEMENTARY SCHOOL

**TYPE OF WORK:** GRADING, DRAINAGE, PAVING, AND PAINT PAVEMENT MARKINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	48909.3.1	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
48909.1.1		P.E.	
48909.2.1		R/W	
48909.3.1		CONST.	



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



**DESIGN DATA**

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

**PROJECT LENGTH**

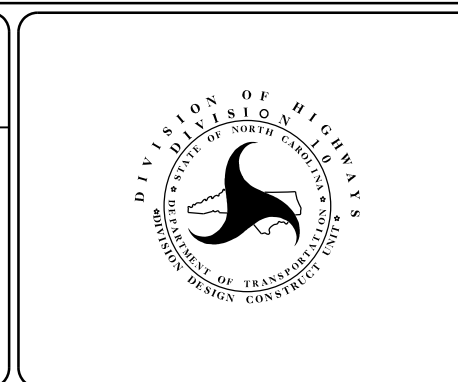
LENGTH OF ROADWAY PROJECT	48909.3.1	=	0.22	MILES
TOTAL LENGTH OF STATE PROJECT	48909.3.1	=	0.22	MILES

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

---

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JUNE 1, 2022	DONALD HARWARD PROJECT ENGINEER
LETTING DATE: MAY 3, 2022	TRAVIS LOWDER PROJECT DESIGN ENGINEER



ROADWAY DESIGN ENGINEER

DocuSigned by:

SIGNATURE A92E75CC0FFB43B...

# SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
48909.3.1	IA
F.A. PROJECT NO.	

GPS-9  
N: 627923.2480  
E: 1626139.8594  
ELEV: 646.93

GPS-8  
N: 627737.9590  
E: 1626263.4475  
ELEV: 636.36



BL	POINT	DESC.	NORTH	EAST	ELEVATION	L_REV STATION	OFFSET
6			627223.6934	1625752.6085	648.83	19+22.77	831.29 LT
3			627480.3198	1625898.7561	648.51	19+23.93	536.00 LT
11			627374.0186	1626071.5391	644.25	11+78.91	34.15 RT
13			627078.2901	1626035.5215	644.94	11+88.59	331.41 RT
8			627737.9590	1626263.4475	636.36	16+20.51	65.96 LT
9			627923.2480	1626139.8594	646.93	19+40.83	32.87 LT

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-3"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF  
 NORTHING: 627480.320(ft)    EASTING: 1625898.756(ft)  
 ELEVATION: 648.51(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987966

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-3" TO -L- STATION 10+00 IS  
 N 69° 43' 22" E 22.92'

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

GPS-6  
N: 627223.6934  
E: 1625752.6085  
ELEV: 648.83

GPS-3  
N: 627480.3198  
E: 1625898.7561  
ELEV: 648.51

GPS-11  
N: 627374.0186  
E: 1626071.5391  
ELEV: 644.25

BL-13  
N: 627078.2901  
E: 1626035.5215  
ELEV: 644.94

**NOTES:**

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

RICHFIELD ELEMENTARY SCHOOL DRIVE

SCALE	1"=50'		REVISIONS
DATE	3-2022		
DWG. BY	JCB		
DESIGN BY	TLB		
APPROVED	JDH		

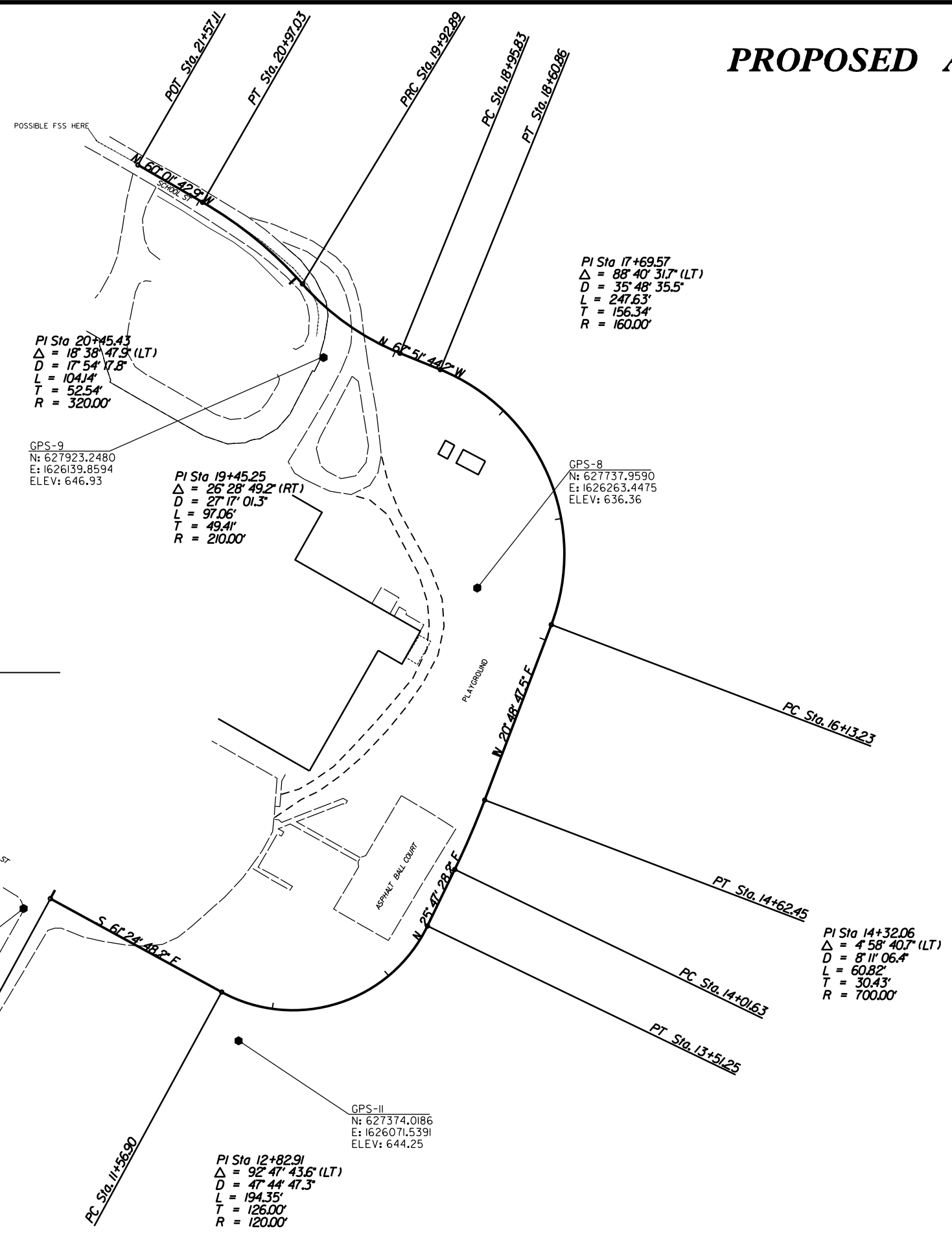
# PROPOSED ALIGNMENT SHEET -L-

TYPE	STATION	NORTH	EAST
POT	10+00.00	627488.2629	1625920.2555
PC	11+56.90	627413.1862	1626058.0325
PT	13+51.25	627466.3465	1626223.4972
PC	14+01.63	627511.7031	1626245.4148
PT	14+62.45	627567.5420	1626269.4653
PC	16+13.23	627708.4853	1626323.0418
PT	18+60.86	627913.5418	1626233.7763
PC	18+95.83	627926.7223	1626201.3778
PRC	19+92.89	627982.4154	1626122.9459
PT	20+97.03	628048.0791	1626042.7055
POT	21+57.11	628078.0933	1625990.6595

### NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

**NOTE:**  
 PARCELS 1 AND 2 WERE CALCULATED FROM -L- ALIGNMENT.  
 PARCEL 3 WAS CALCULATED FROM -LREV- ALIGNMENT.



GPS-6  
 N: 627223.6934  
 E: 1625752.6085  
 ELEV: 648.83

GPS-3  
 N: 627480.3198  
 E: 1625898.7561  
 ELEV: 648.51

PI Sta 20+45.43  
 $\Delta = 18^\circ 38' 47.9''$  (LT)  
 $D = 17^\circ 54' 17.8''$   
 $L = 104.14'$   
 $T = 52.54'$   
 $R = 320.00'$

PI Sta 19+45.25  
 $\Delta = 26^\circ 28' 49.2''$  (RT)  
 $D = 27^\circ 17' 01.3''$   
 $L = 97.06'$   
 $T = 49.41'$   
 $R = 210.00'$

PI Sta 17+69.57  
 $\Delta = 88^\circ 40' 31.7''$  (LT)  
 $D = 35^\circ 48' 35.5''$   
 $L = 247.63'$   
 $T = 156.34'$   
 $R = 160.00'$

GPS-8  
 N: 627737.9590  
 E: 1626263.4475  
 ELEV: 636.36

PI Sta 14+32.06  
 $\Delta = 4^\circ 58' 40.7''$  (LT)  
 $D = 8^\circ 11' 06.4''$   
 $L = 60.82'$   
 $T = 30.43'$   
 $R = 700.00'$

PI Sta 12+82.91  
 $\Delta = 92^\circ 47' 43.6''$  (LT)  
 $D = 47^\circ 44' 47.3''$   
 $L = 194.35'$   
 $T = 126.00'$   
 $R = 120.00'$

RICHFIELD ELEMENTARY SCHOOL DRIVE

SCALE	N/A		REVISIONS
DATE	3-2022		
DWG. BY	JCB		
DESIGN BY	TBL		
APPROVED	JDH		

# PROPOSED ALIGNMENT SHEET -LREV-

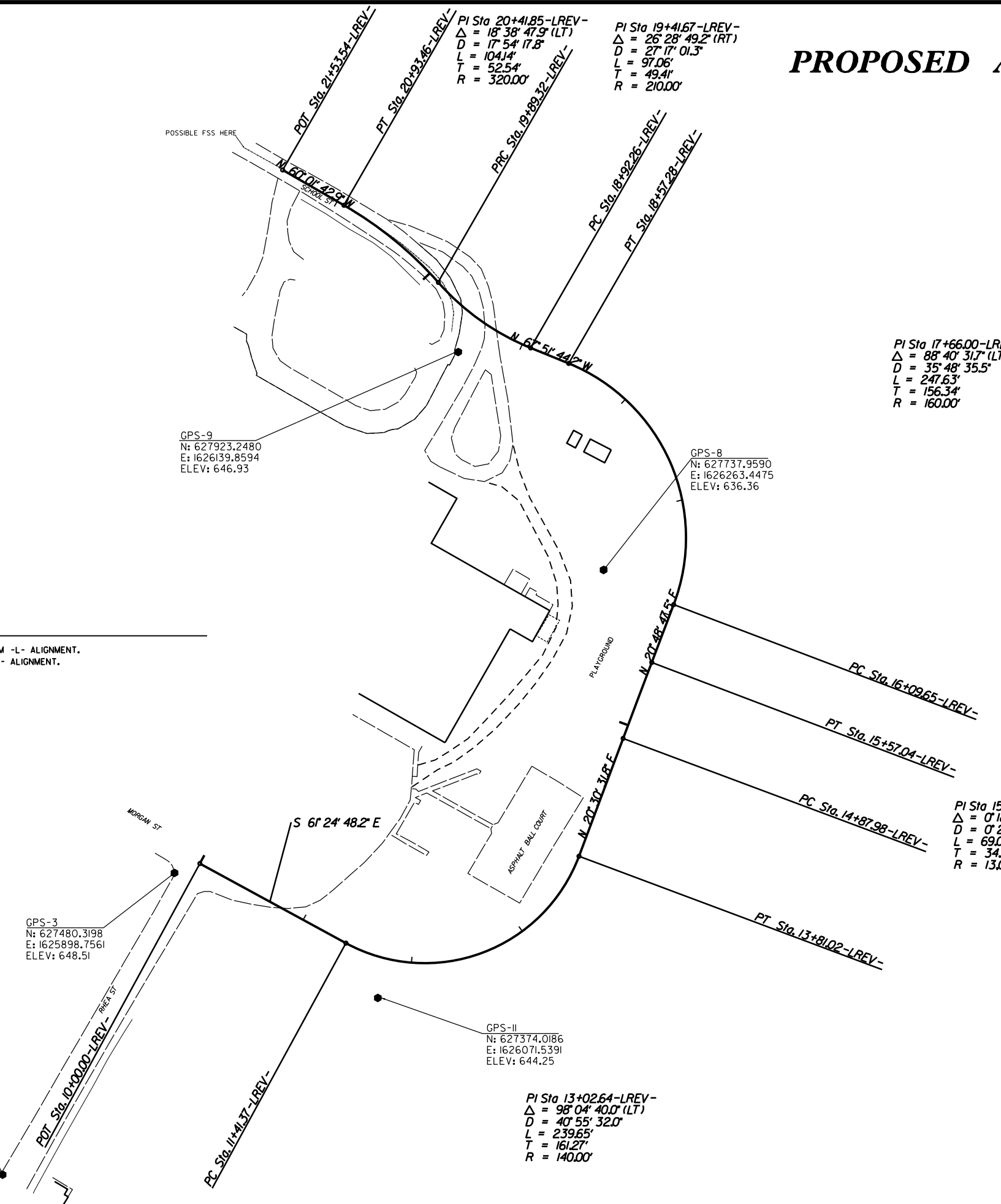
TYPE	STATION	L-REV	
		NORTH	EAST
POT	10+00.00	627488.2629	1625920.2555
PC	11+41.37	627420.6197	1626044.3909
PT	13+81.02	627494.5038	1626242.5055
PC	14+87.98	627594.6883	1626279.9806
PT	15+57.04	627659.3044	1626304.3468
PC	16+09.65	627708.4853	1626323.0418
PT	18+57.28	627913.5418	1626233.7763
PC	18+92.26	627926.7223	1626201.3778
PRC	19+89.32	627982.4154	1626122.9459
PT	20+93.46	628048.0791	1626042.7055
POT	21+53.54	628078.0933	1625990.6595

### NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

### NOTE:

PARCELS 1 AND 2 WERE CALCULATED FROM -L- ALIGNMENT.  
PARCEL 3 WAS CALCULATED FROM -LREV- ALIGNMENT.



GPS-6  
N: 627223.6934  
E: 1625752.6085  
ELEV: 648.83

GPS-3  
N: 627480.3198  
E: 1625898.7561  
ELEV: 648.51

GPS-9  
N: 627923.2480  
E: 1626139.8594  
ELEV: 646.93

GPS-11  
N: 627374.0186  
E: 1626071.5391  
ELEV: 644.25

GPS-8  
N: 627737.9590  
E: 1626263.4475  
ELEV: 636.36

PI Sta 17+66.00-LREV-  
Δ = 88° 40' 31.7\"/>

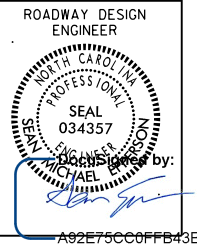
PI Sta 15+22.51-LREV-  
Δ = 0° 18' 15.7\"/>

PI Sta 13+02.64-LREV-  
Δ = 98° 04' 40.0\"/>

PI Sta 20+41.85-LREV-  
Δ = 18° 38' 47.9\"/>

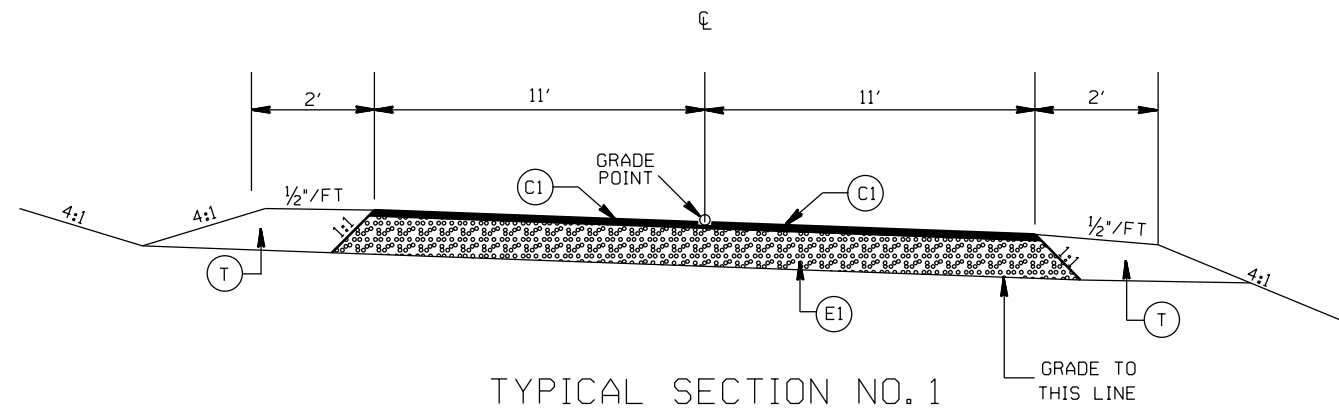
PI Sta 19+41.67-LREV-  
Δ = 26° 28' 49.2\"/>

PROJECT NO.	SHEET NO.
48909.3.1	2
F.A. PROJECT NO.	



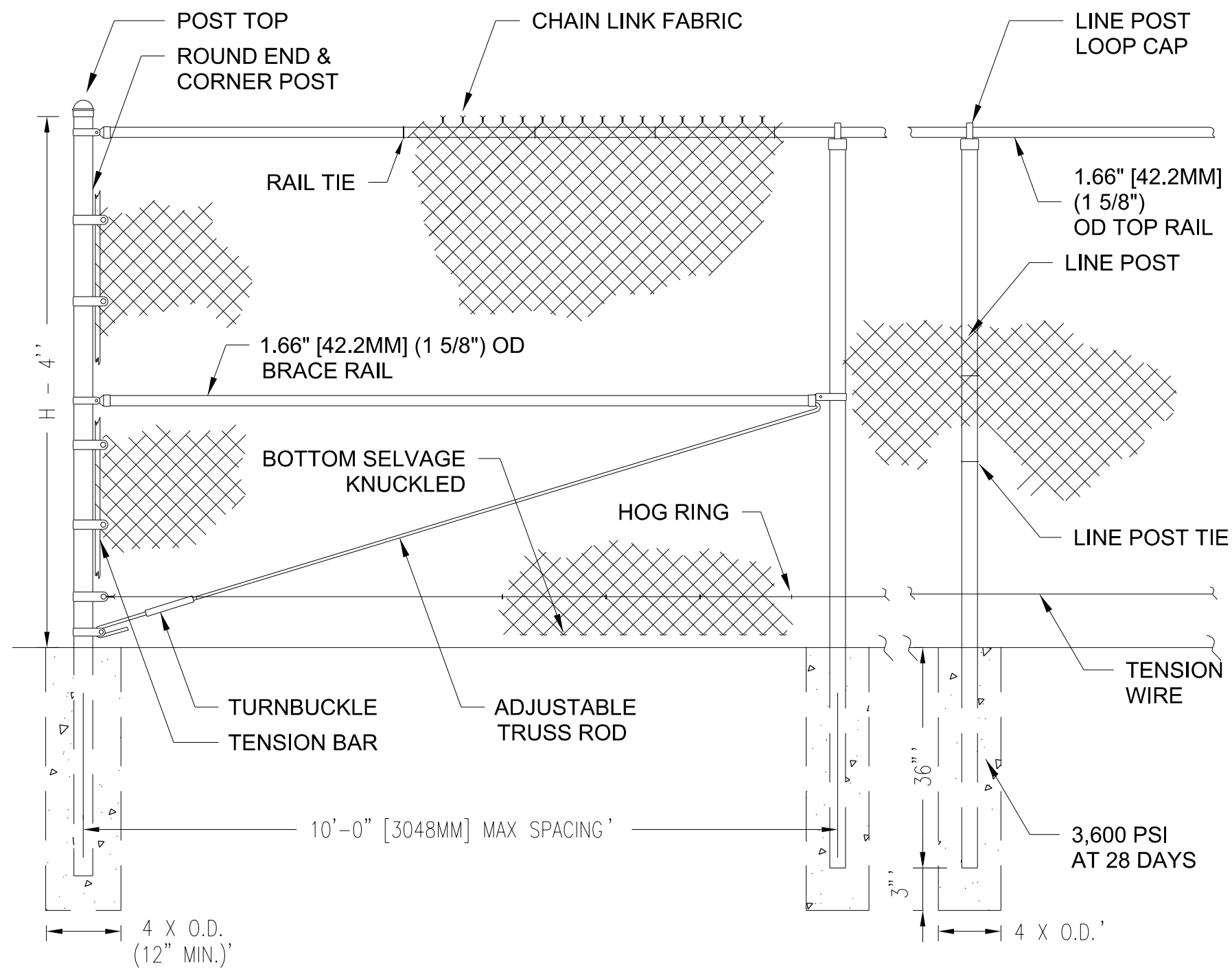
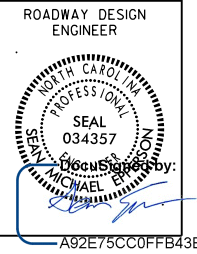
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 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.
(T)	EARTH MATERIAL




TYPICAL SECTION NO. 1  
-L-  
STA. 10+00 TO 20+00

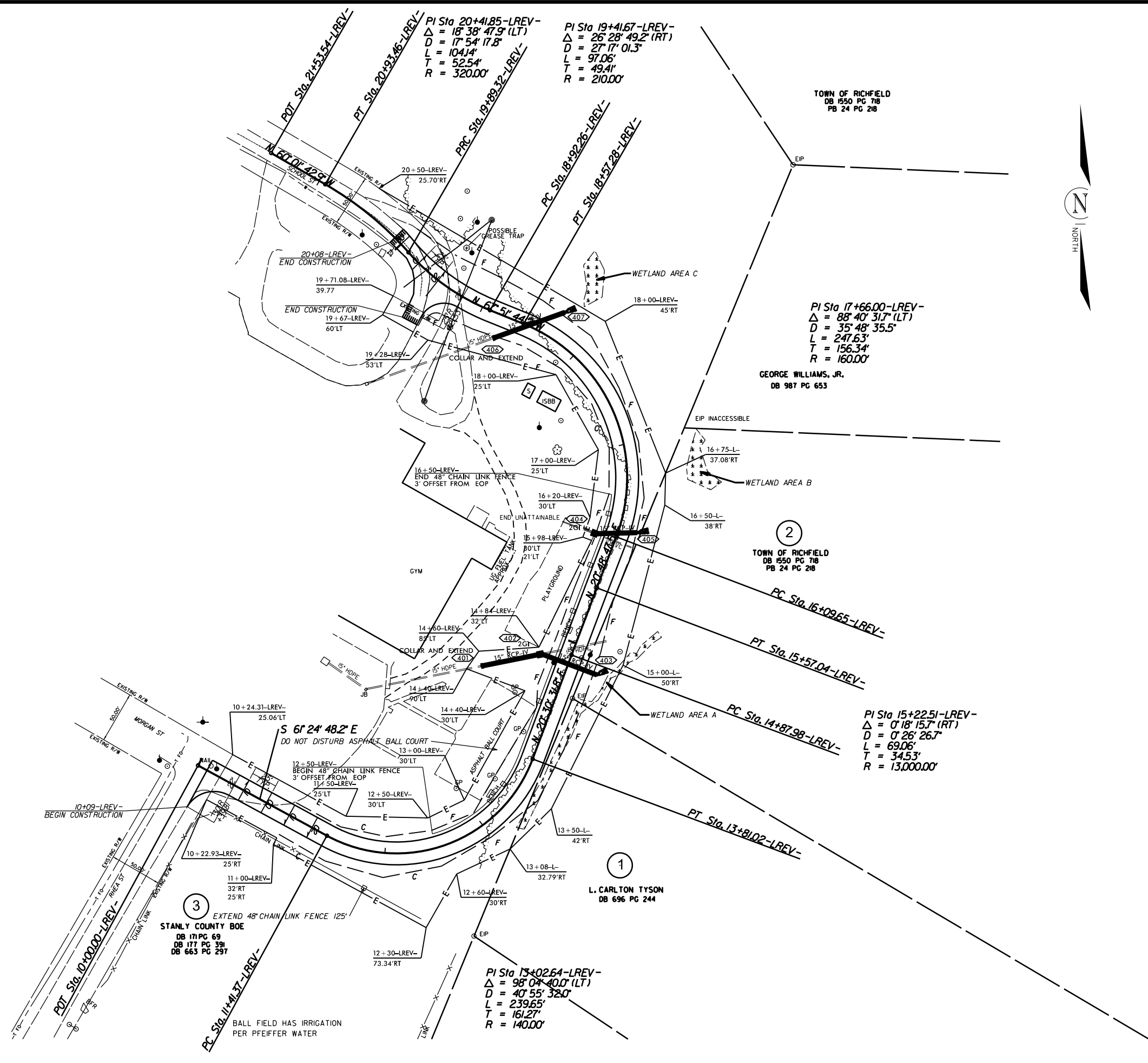
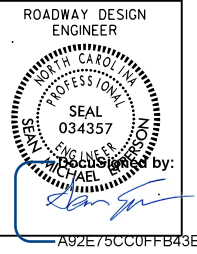
DRIVEWAY AT RICHFIELD ELEMENTARY SCHOOL			REVISIONS
SCALE	N/A		
DATE	4-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		



# 4' CHAIN LINK FENCE

DRIVEWAY AT RICHFIELD ELEMENTARY SCHOOL			REVISIONS
SCALE	N/A		
DATE	4-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		





TOWN OF RICHFIELD  
DB 1550 PG 718  
PB 24 PG 218

PI Sta 17+66.00-LREV-  
Δ = 88° 40' 31.7" (LT)  
D = 35' 48' 35.5"  
L = 247.63'  
T = 156.34'  
R = 160.00'

GEORGE WILLIAMS, JR.  
DB 987 PG 653

②  
TOWN OF RICHFIELD  
DB 1550 PG 718  
PB 24 PG 218

PI Sta 15+22.51-LREV-  
Δ = 0° 18' 15.7" (RT)  
D = 0' 26' 26.7"  
L = 69.06'  
T = 34.53'  
R = 13,000.00'

①  
L. CARLTON TYSON  
DB 696 PG 244

PI Sta 20+41.85-LREV-  
Δ = 18° 38' 47.9" (LT)  
D = 17' 54' 17.8"  
L = 104.14'  
T = 52.54'  
R = 320.00'

PI Sta 19+41.67-LREV-  
Δ = 26° 28' 49.2" (RT)  
D = 27' 17' 01.3"  
L = 97.06'  
T = 49.41'  
R = 210.00'

③  
STANLY COUNTY BOE  
DB 171 PG 69  
DB 177 PG 391  
DB 663 PG 297

PI Sta 13+02.64-LREV-  
Δ = 98° 04' 40.0" (LT)  
D = 40' 55' 32.0"  
L = 239.65'  
T = 161.27'  
R = 140.00'

RICHFIELD ELEMENTARY SCHOOL DRIVE

SCALE	1"=50'		REVISIONS
DATE	4-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

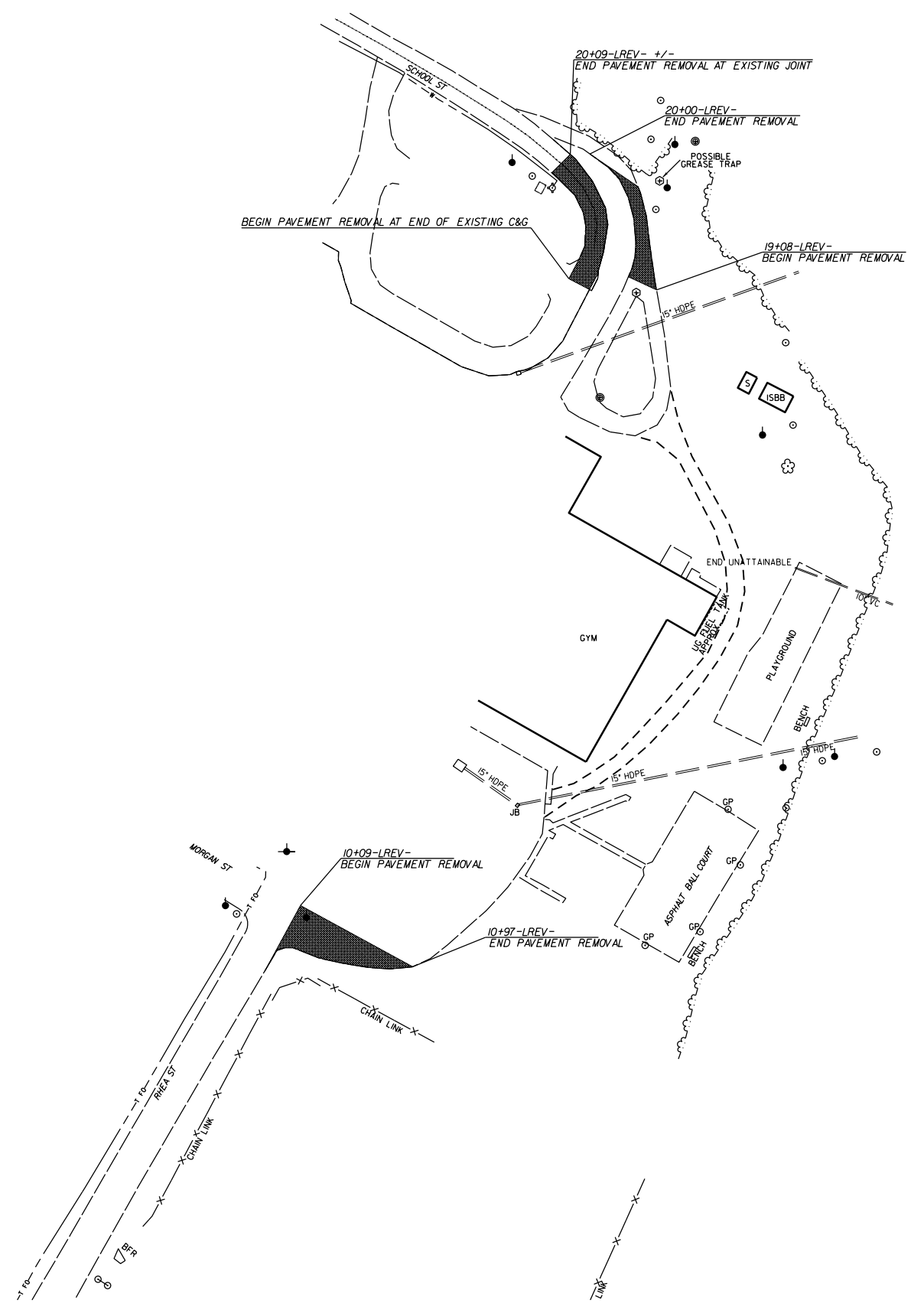
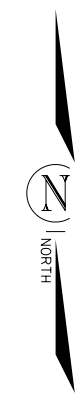


PROJECT NO.	SHEET NO.
48909.3.1	4A
F.A. PROJECT NO.	

ROADWAY DESIGN ENGINEER

DESIGNED BY:  
MICHAEL J. TAYLOR

A92E75CC0FFB43B



FULL DEPTH PAVEMENT REMOVAL

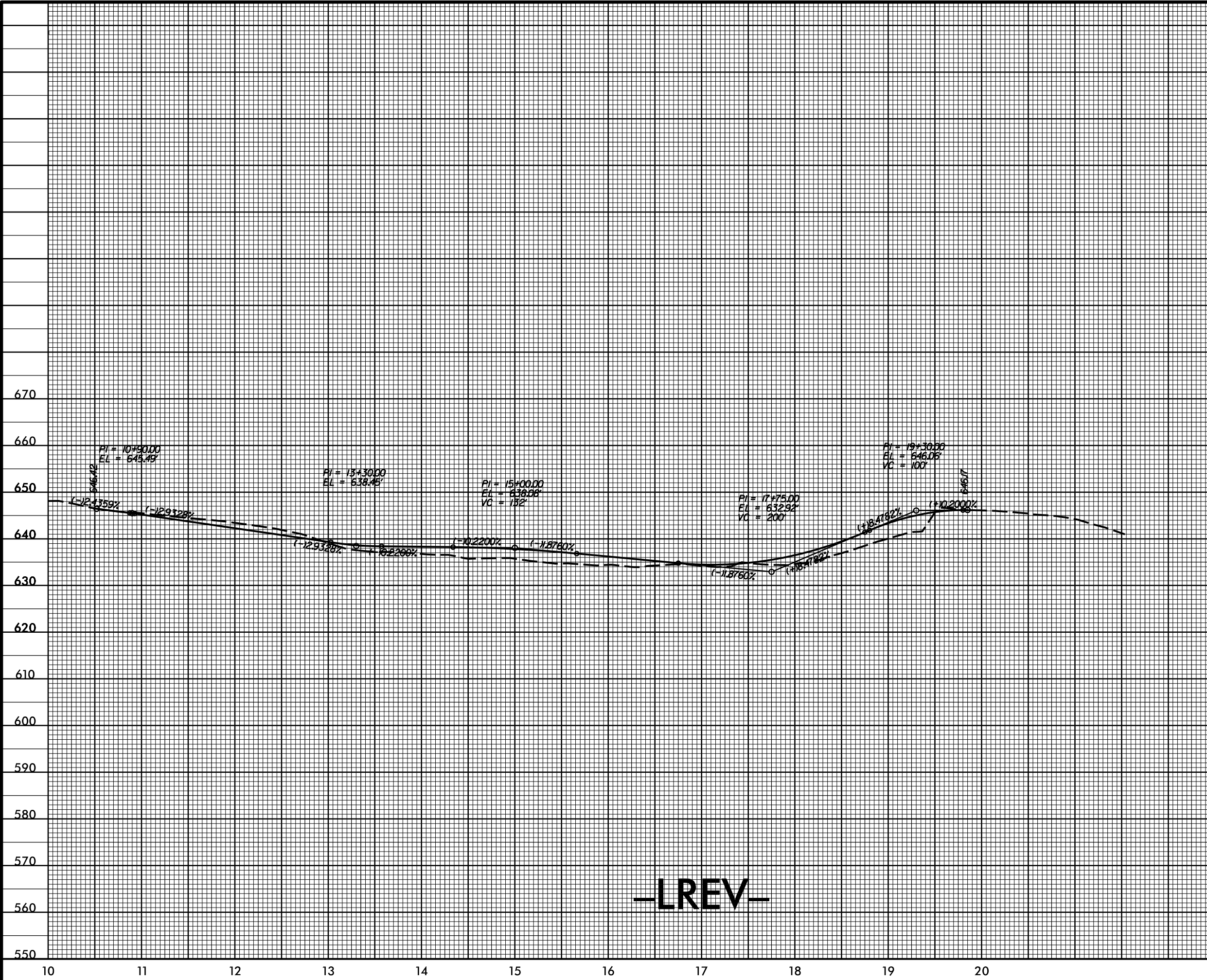
RICHFIELD ELEMENTARY SCHOOL DRIVE

SCALE	1"=50'		REVISIONS
DATE	4-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

5/14/99

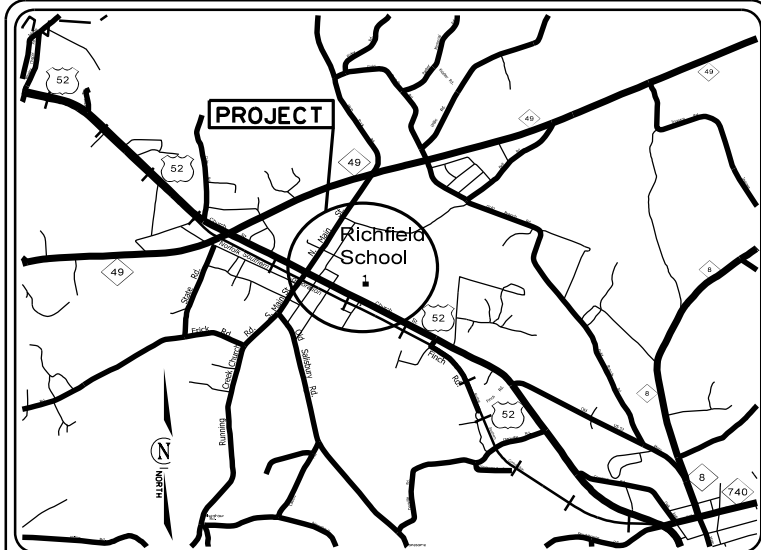
PROJECT REFERENCE NO. <b>48909.31</b>	SHEET NO. <b>5</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

25-APR-2002 14:21  
S:\DD\LDK\SS\only\SM-5710M\_Richfield\_Elementary.stl.plt\_LREV.dgn



**-LREV-**

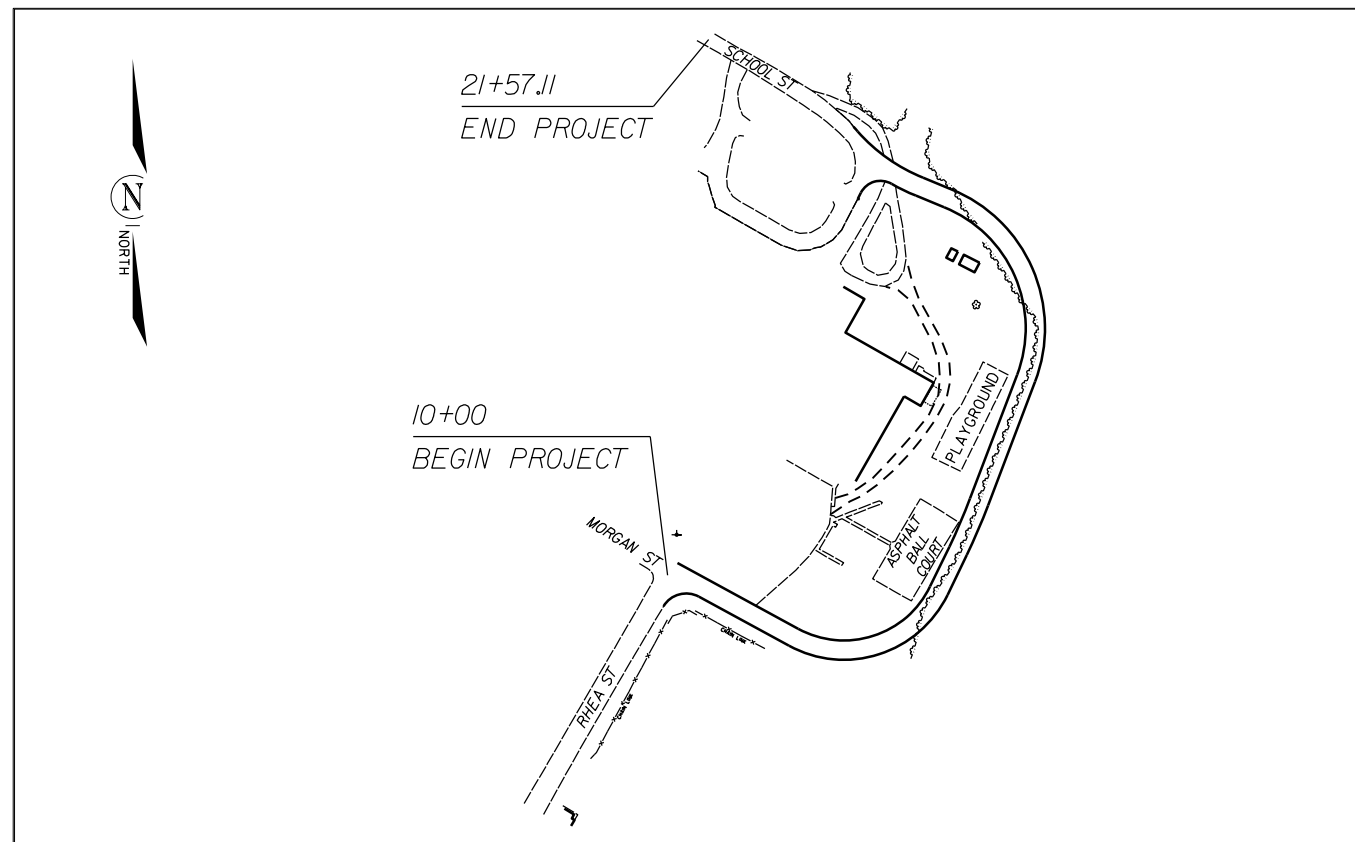
SM-5710M



**VICINITY MAP**  
NOT TO SCALE

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

**LOCATION: NEW DRIVEWAY FOR RICHFIELD ELEMENTARY SCHOOL**



INSTALL PERIMETER EROSION CONTROL MEASURES DURING INITIAL CLEARING PHASE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SM-5710M	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48909.1.1		P.E.	
48909.2.1		R/W	
48909.3.1		CONST.	

**EROSION AND SEDIMENT CONTROL MEASURES**

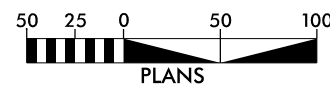
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	— T —
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary 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	D
1635.01	Rock Pipe Inlet Sediment Trap Type-A	C
1635.02	Rock Pipe Inlet Sediment Trap Type-B	C
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.

HIGH QUALITY WATERS(S) EXIST  
ON THIS PROJECT

High Quality Water Zone(s) Exist  
From Sta. BEGIN PROJECT  
to Sta. END PROJECT  
Refer To E. C. Special Provisions  
for Special Considerations.

**GRAPHIC SCALE**



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared In the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Designed by:  
**CHAD BURRIS** 4159  
NAME LEVEL III CERTIFICATION NO.

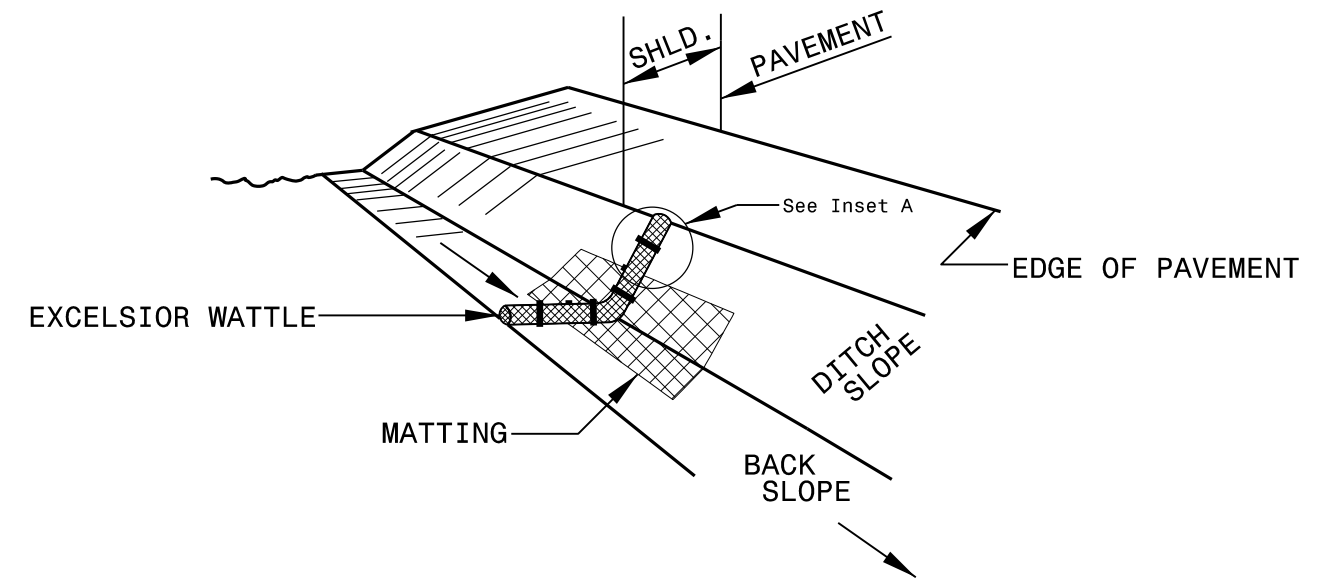
**Roadway Standard Drawings**

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.

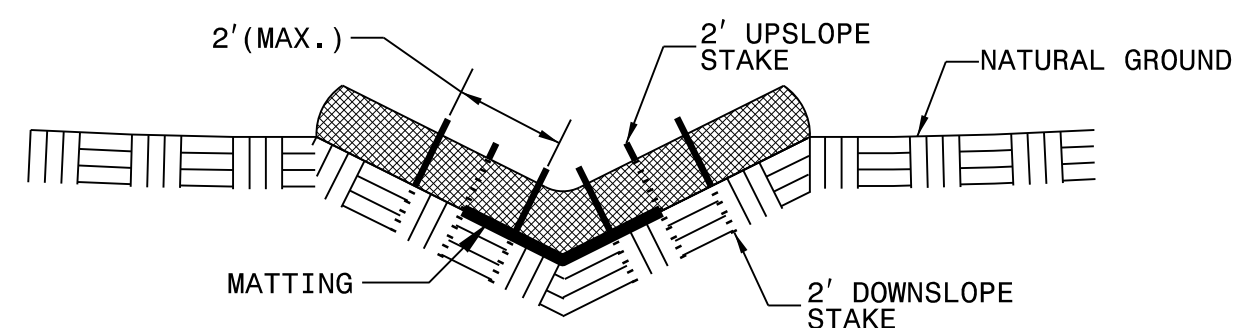
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type 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 Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

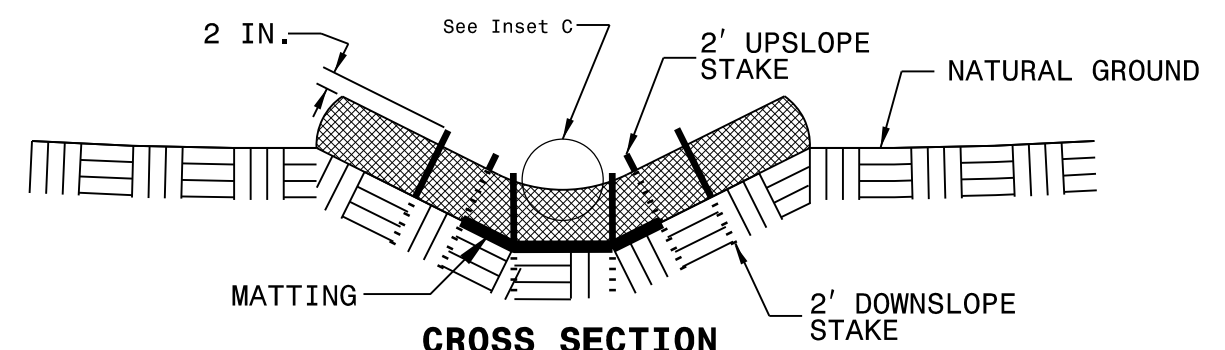
PROJECT NO.	SHEET NO.
48909.3.1	EC-2
F.A. PROJECT NO.	



**ISOMETRIC VIEW**

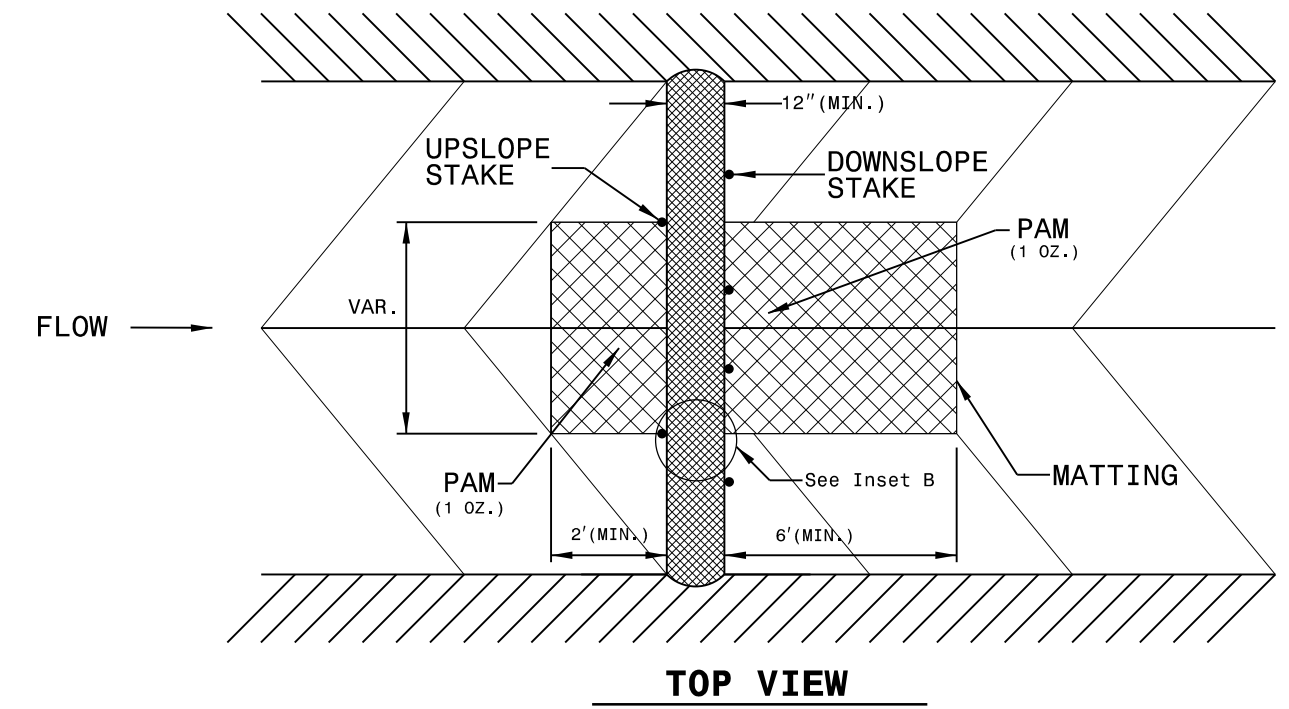
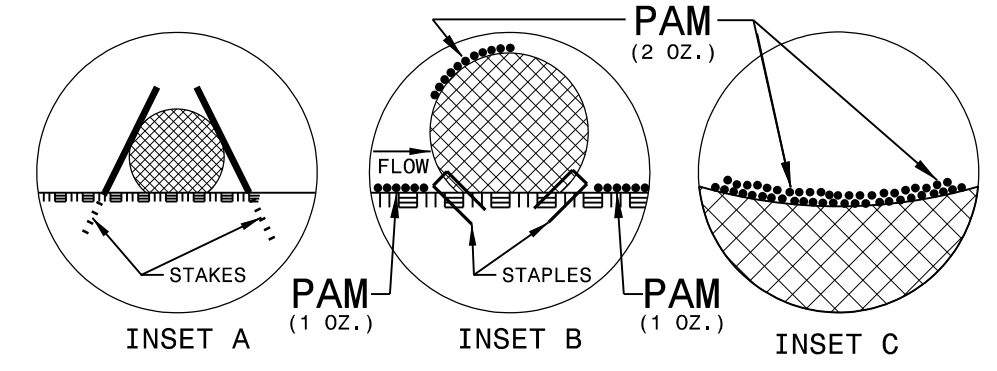


**CROSS SECTION VEE DITCH**



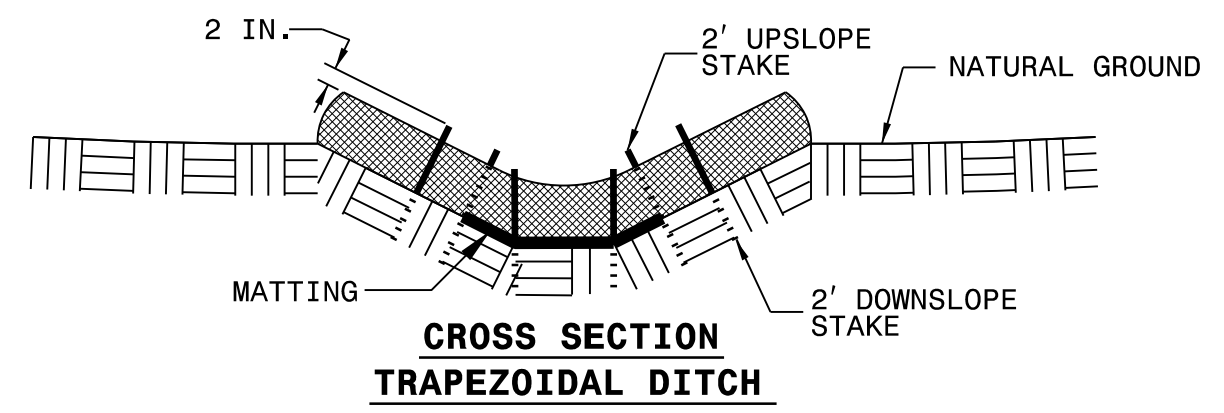
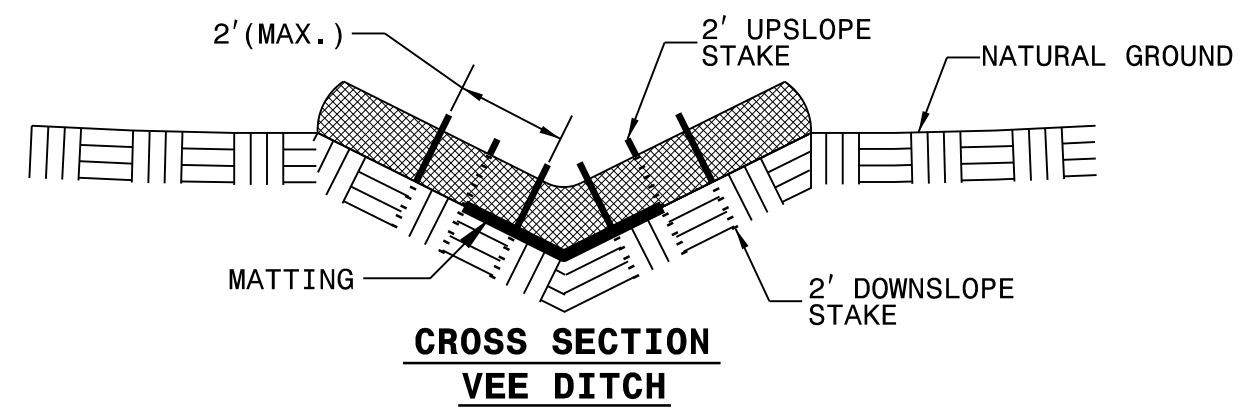
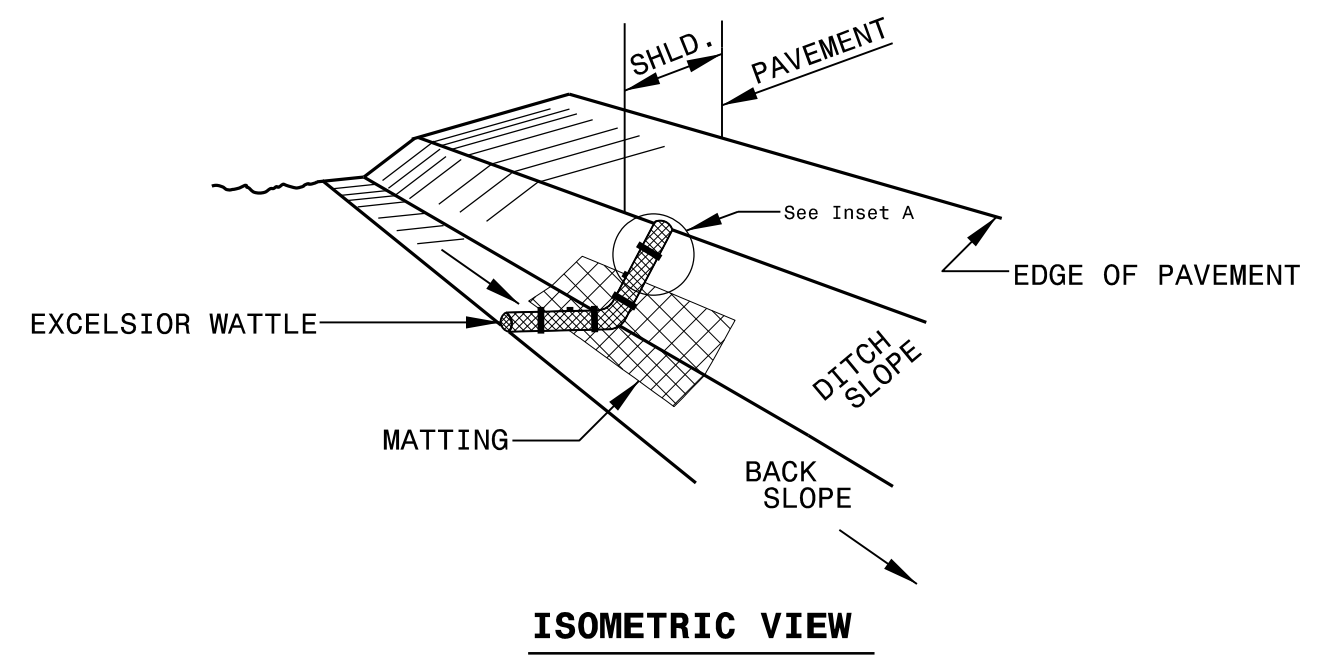
**CROSS SECTION TRAPEZOIDAL DITCH**

- 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.
  - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
  - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



**TOP VIEW**

# 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.

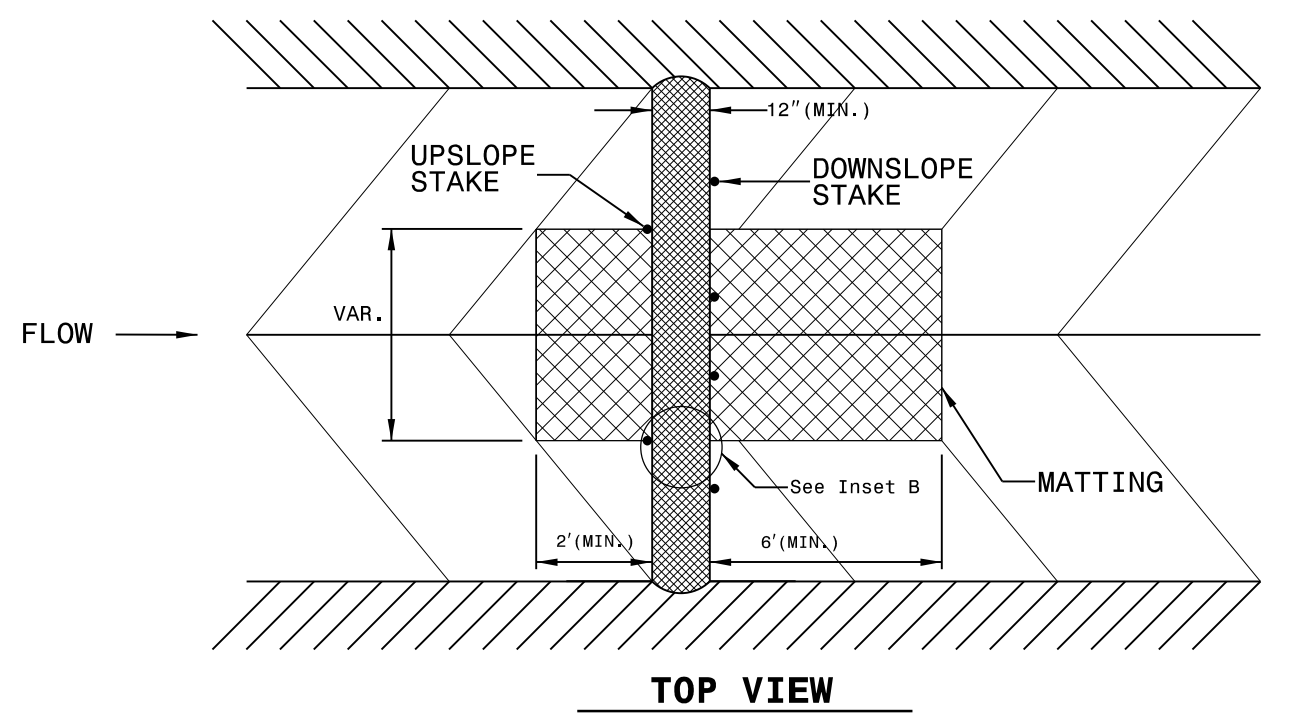
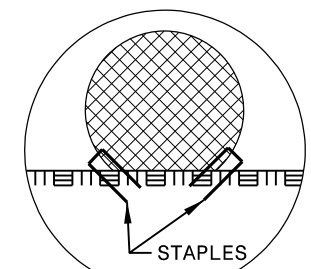
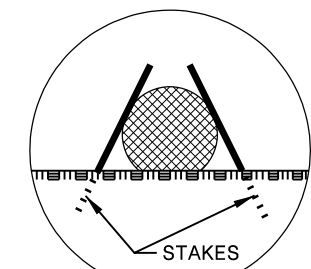
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

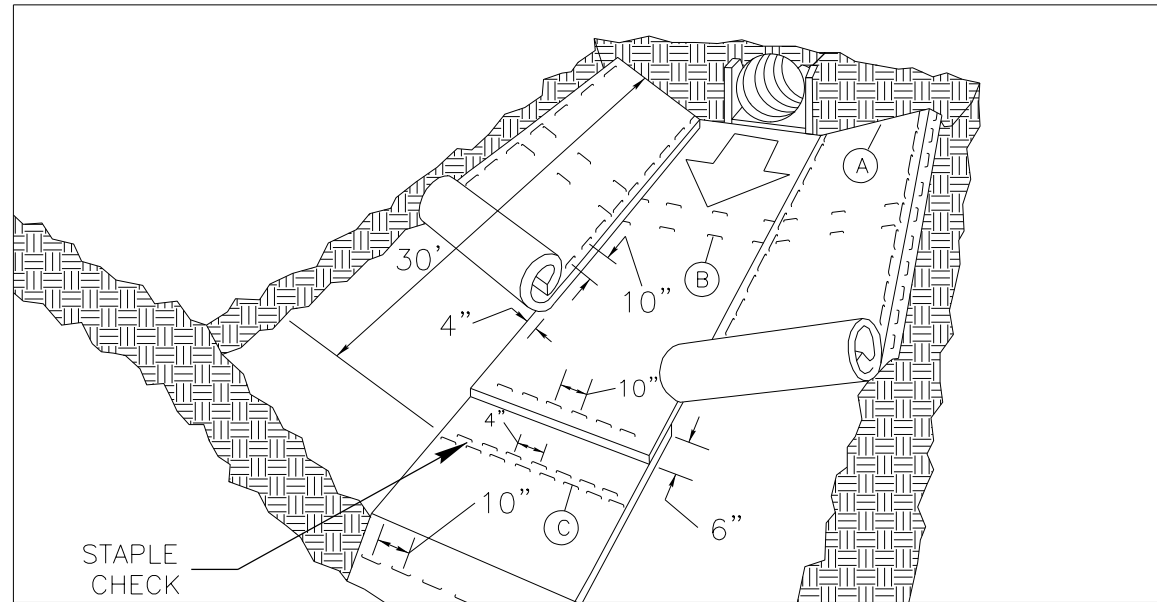
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



# MATTING INSTALLATION DETAIL

PROJECT NO.	SHEET NO.
48909.3.1	EC-2B
F.A. PROJECT NO.	



**MATTING IN DITCHES**

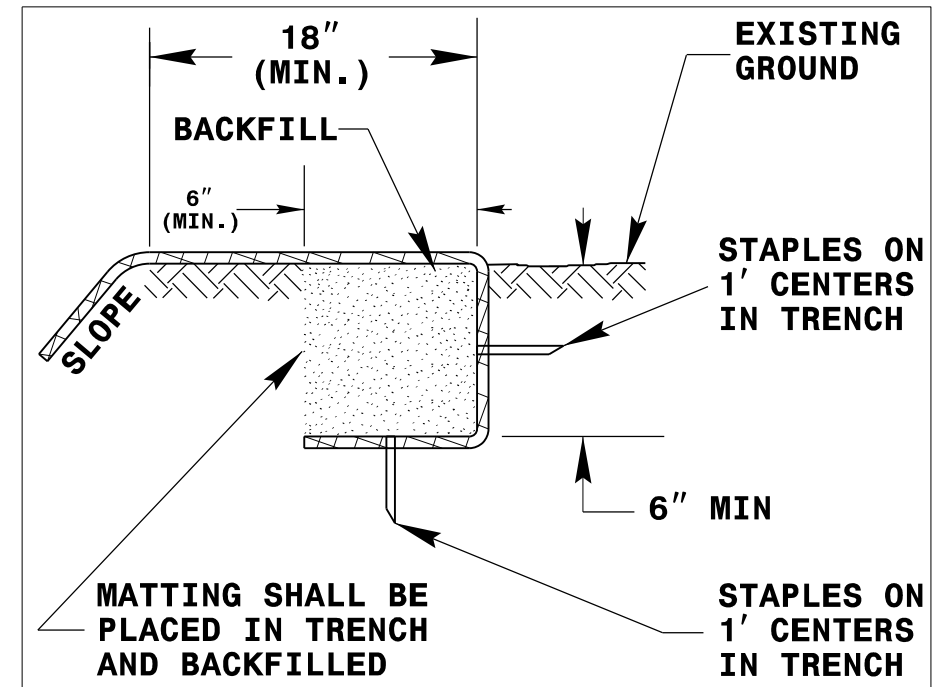
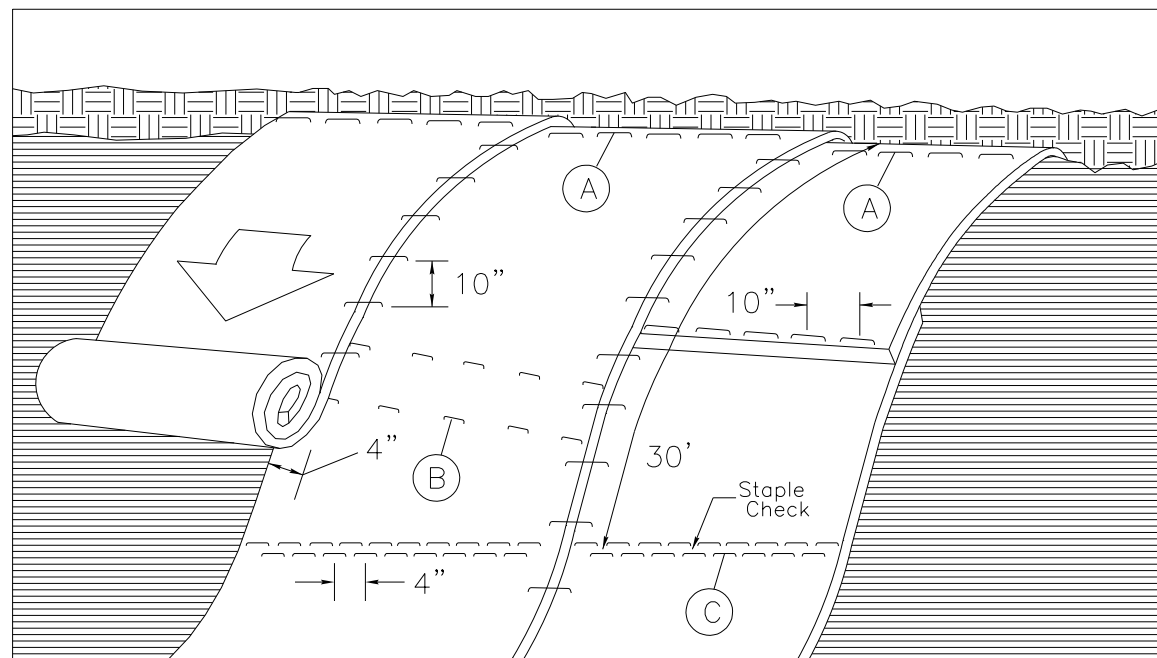


DIAGRAM (A)



**MATTING ON SLOPES**

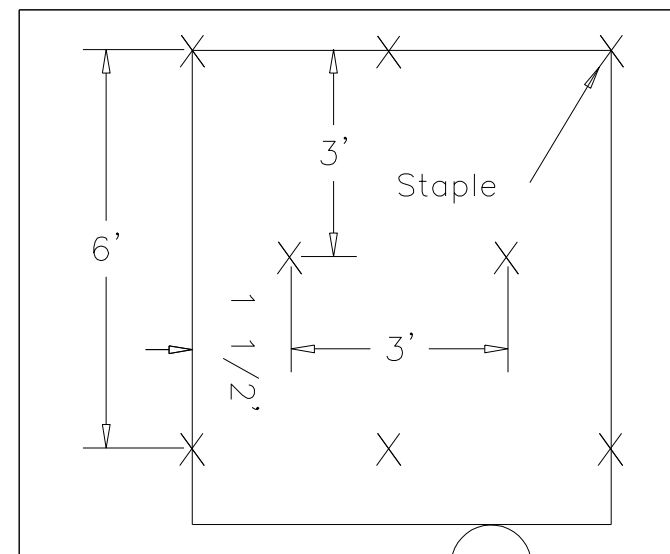


DIAGRAM B

Staple Check Pattern

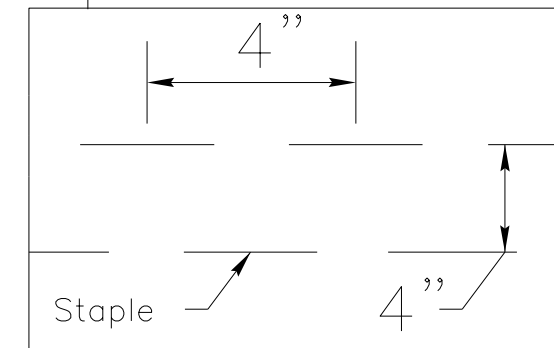


DIAGRAM (C)

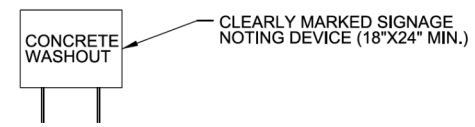
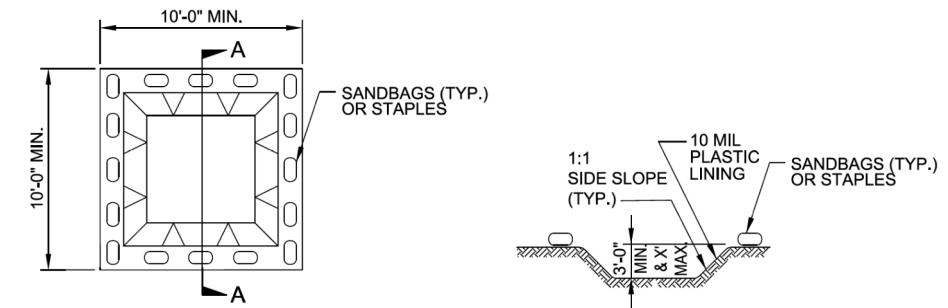
**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

### ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



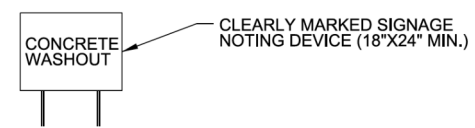
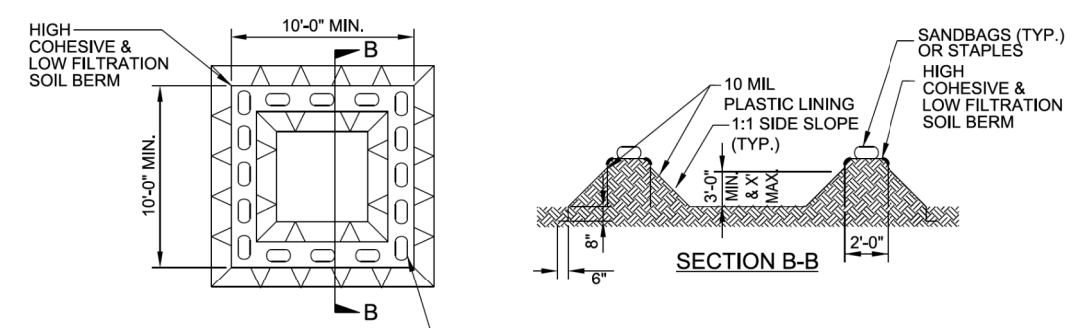
**SECTION A-A**

**NOTES:**

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

**PLAN**

**BELOW GRADE WASHOUT STRUCTURE**  
NOT TO SCALE



**SECTION B-B**

**NOTES:**

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

**PLAN**

**ABOVE GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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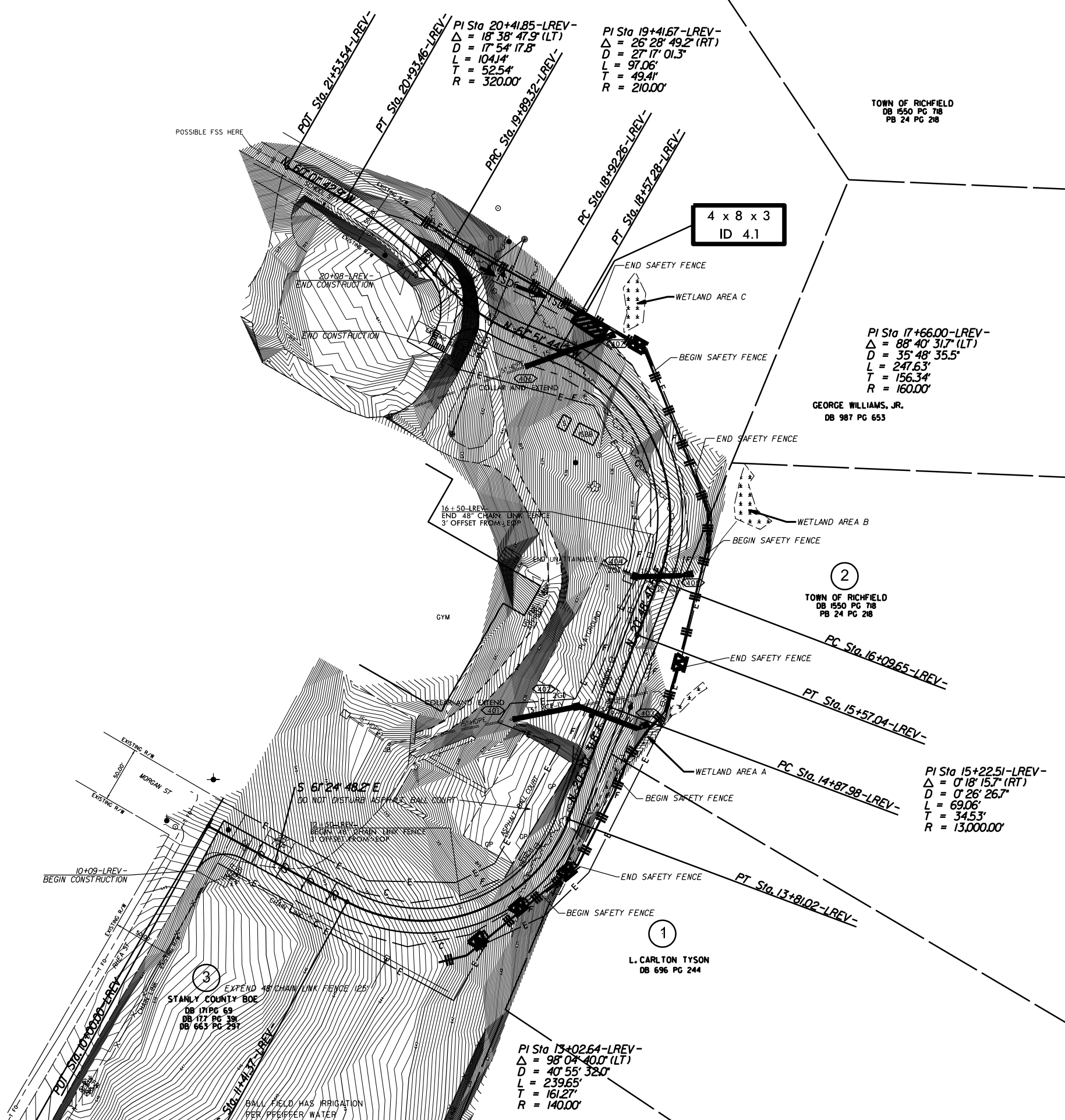
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PROJECT NO.	SHEET NO.
48909.3.1	EC-3
F.A. PROJECT NO.	

## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) 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 HQW ZONES.





TOWN OF RICHFIELD  
DB 1550 PG 718  
PB 24 PG 218


GEORGE WILLIAMS, JR.  
DB 987 PG 653

TOWN OF RICHFIELD  
DB 1550 PG 718  
PB 24 PG 218

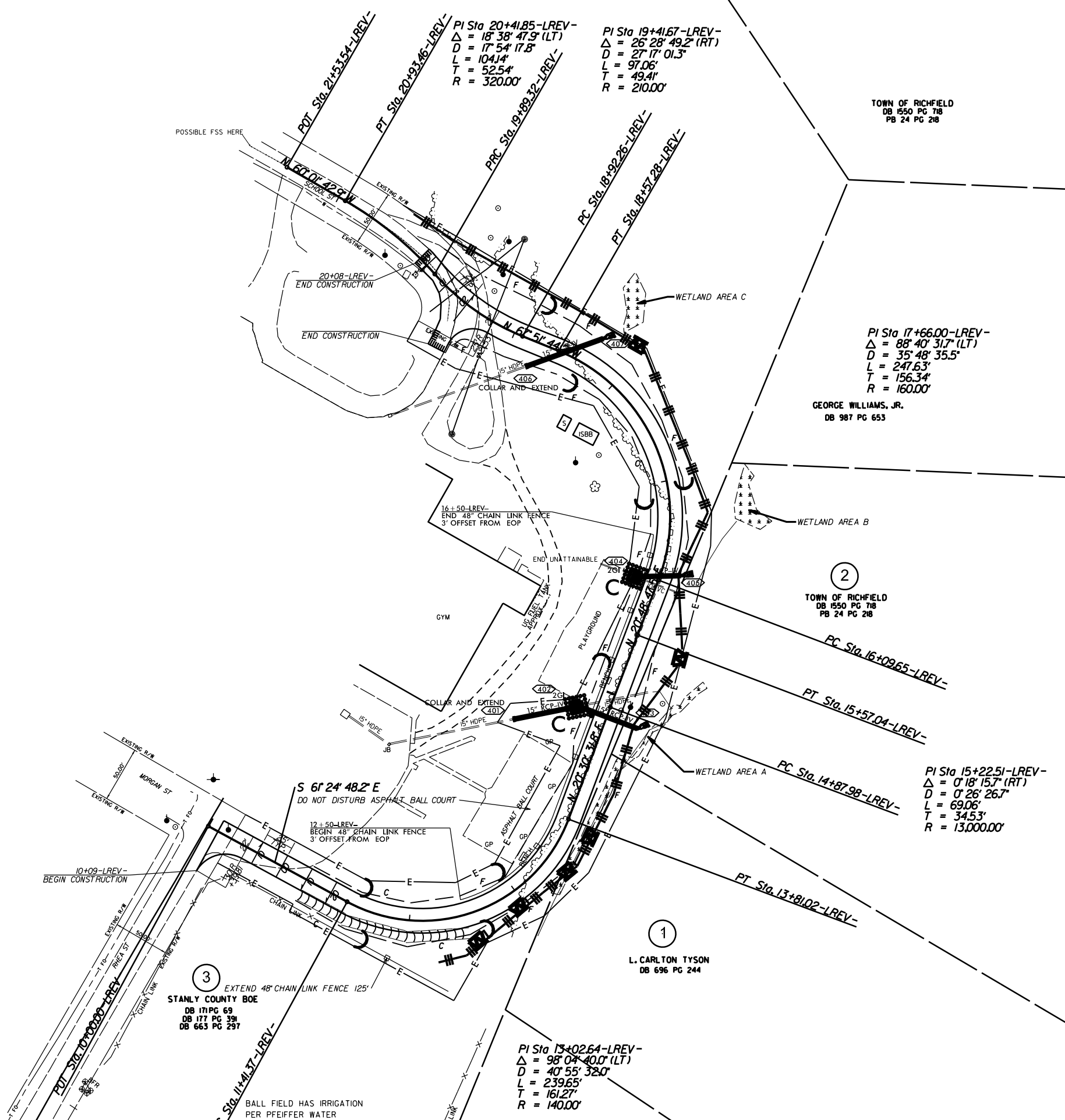
L. CARLTON TYSON  
DB 696 PG 244

STANLY COUNTY BOE  
DB 171 PG 69  
DB 177 PG 39  
DB 663 PG 297




RICHFIELD ELEMENTARY SCHOOL DRIVE			REVISIONS
SCALE	1"=50'		
DATE	04-2022		
DWG. BY	CEB		
DESIGN BY	CEB		
APPROVED	JDH		

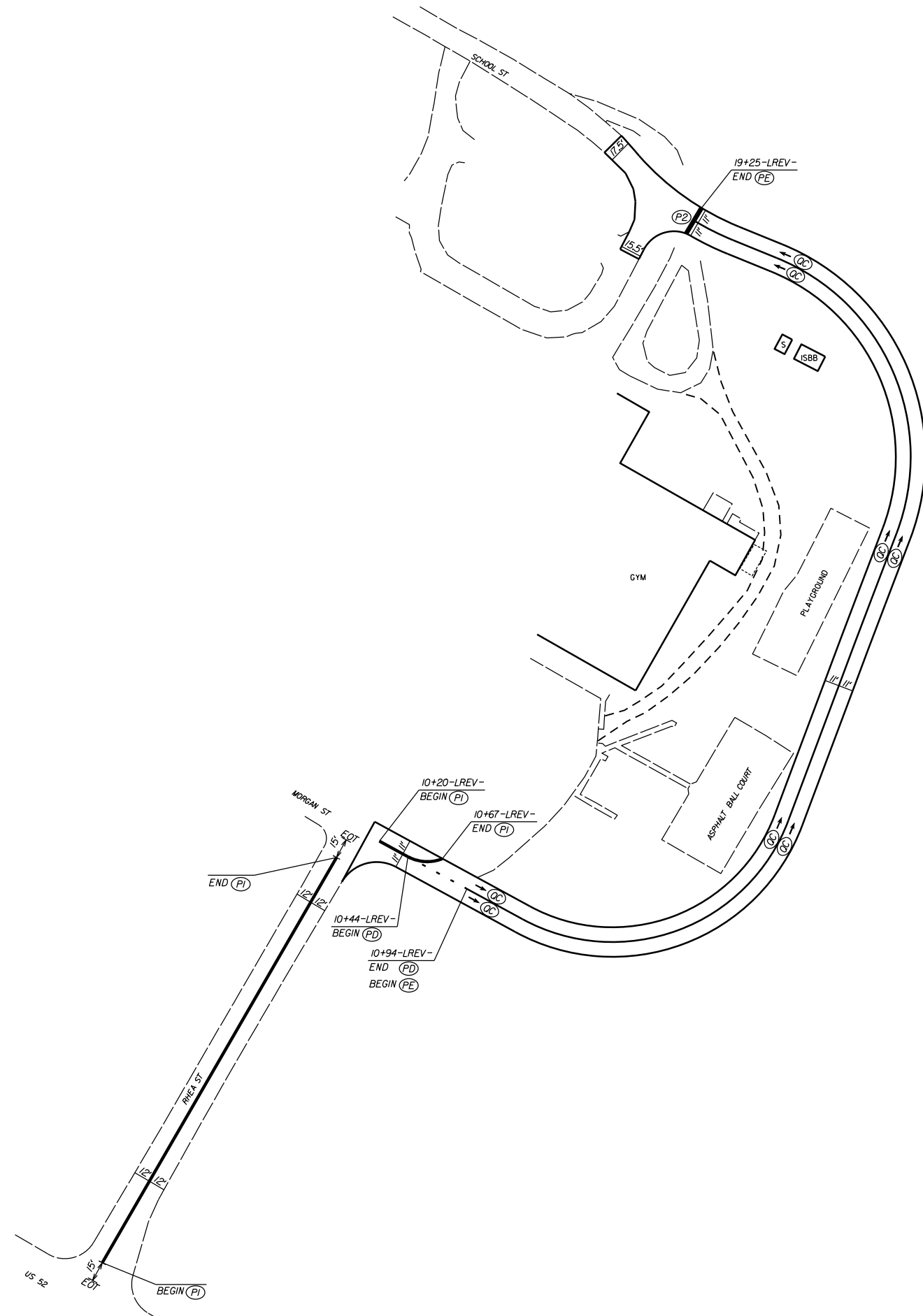
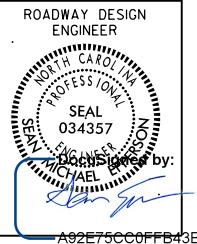
EROSION CONTROL MEASURES MAY BE CHANGED,  
IN FIELD AS DIRECTED BY THE ENGINEER.



INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.  
 SEE SHEET EC-2B  
 STA. 11+00 -L- RT TO 12+50 -L- RT

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

RICHFIELD ELEMENTARY SCHOOL DRIVE	
SCALE	1"=50'
DATE	04-2022
DWG. BY	CEB
DESIGN BY	CEB
APPROVED	JDH
	
REVISIONS	



PAVEMENT MARKING SCHEDULE

PAINT PAVEMENT MARKING LINES

- |                                       |  |
|---------------------------------------|--|
| PA - WHITE EDGELINE (4')              | PU - WHITE DIAGONAL (12')                                  |
| PB - YELLOW EDGELINE (4')             | PV - YELLOW DIAGONAL (12')                                 |
| PC - 10FT. WHITE SKIP (4')            | PI - WHITE LINE, RR X (16')                                |
| PD - 3FT.-9FT./SP WHITE MINISKIP (4') | P2 - WHITE STOPBAR (24')                                   |
| PE - WHITE SOLID LANE LINE (4')       | P3 - WHITE CROSSWALK LINE (24')                            |
| PF - 10FT. YELLOW SKIP (4')           | P6 - WHITE EDGELINE (6')                                   |
| PH - YELLOW SINGLE CENTER (4')        | P7 - YELLOW EDGELINE (6')                                  |
| PI - YELLOW DOUBLE CENTER (4')        | P8 - 2FT.-6FT./SP WHITE MINISKIP (4')                      |
| PJ - 10FT. WHITE SKIP (6')            | P9 - 2FT.-6FT./SP YELLOW MINISKIP (4')                     |
| PK - 3FT.-9FT./SP WHITE MINISKIP (6') | PI0 - 3FT.-3FT./SP WHITE MINISKIP (12')(ROUNDBABOUTS ONLY) |
| PL - WHITE SOLID LANE LINE (6')       | PI1 - 2FT.-6FT./SP WHITE MINISKIP (6')                     |
| PM - 10FT. YELLOW SKIP (6')           | PI2 - 2FT.-6FT./SP YELLOW MINISKIP (6')                    |
| PN - WHITE GORELINE (8')              | PI3 - 3FT.-9FT./SP WHITE MINISKIP (8')                     |
| PO - WHITE DIAGONAL (8')              | PI4 - 3FT.-9FT./SP WHITE MINISKIP (12')                    |
| PP - YELLOW DIAGONAL (8')             | PI5 - YELLOW SINGLE CENTER (6')                            |
| PQ - WHITE CROSSWALK LINE (8')        | PI6 - YELLOW DOUBLE CENTER (6')                            |
| PR - WHITE SOLID LANE LINE (8')       | PI7 - 3FT.-3FT./SP WHITE MINISKIP (8')(ROUNDBABOUTS ONLY)  |
| PS - WHITE GORELINE (12')             |  |
| PT - WHITE SOLID LANE LINE (12')      |  |

PAINT PAVEMENT MARKING SYMBOLS

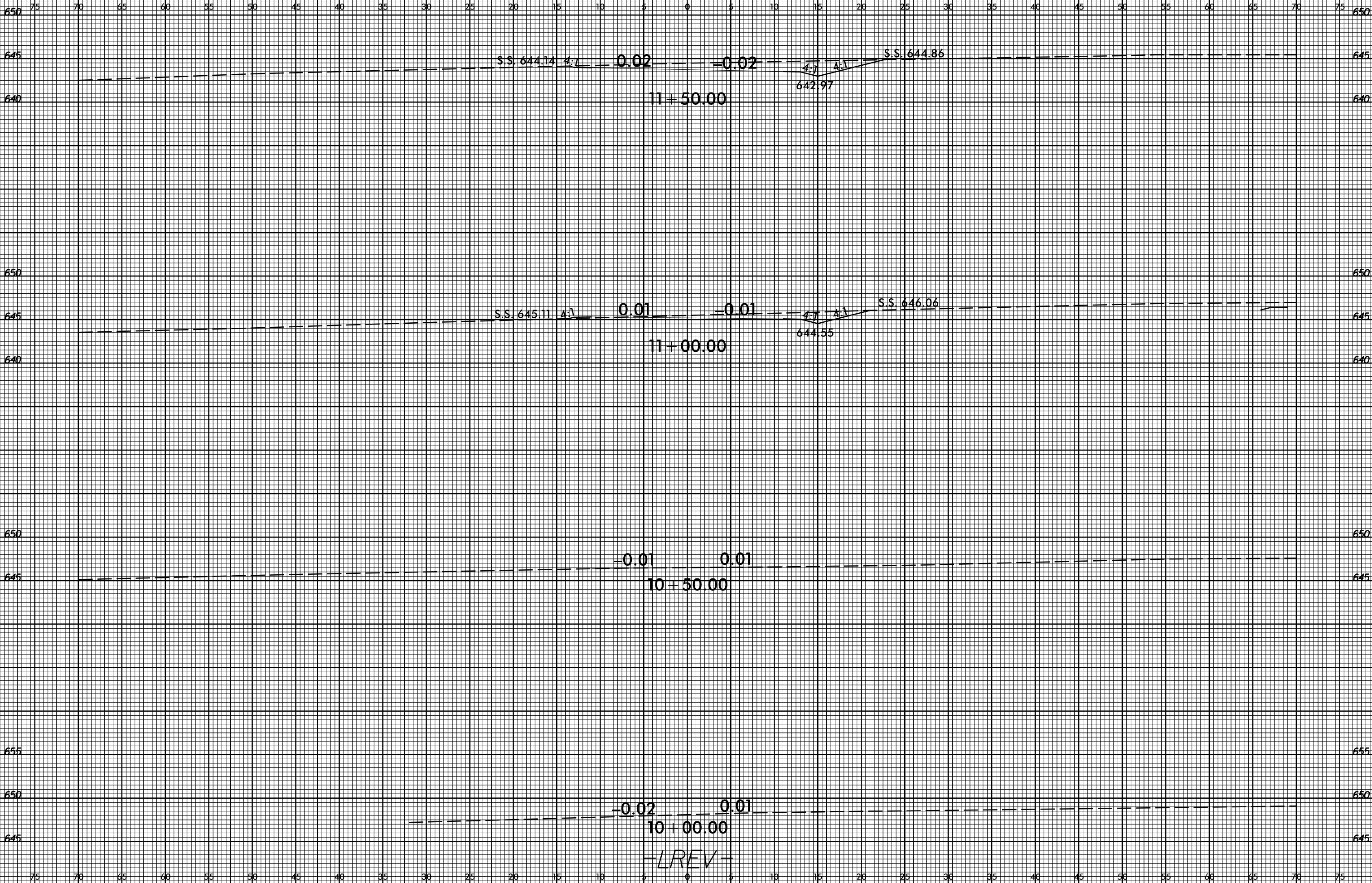
- |                                       |   |
|---------------------------------------|---|
| QA - LEFT TURN ARROW                  | QU - FISH-HOOK STRAIGHT ARROW                     |
| QB - RIGHT TURN ARROW                 | QV - FISH-HOOK LEFT/STRAIGHT ARROW                |
| QC - STRAIGHT ARROW                   | QW - FISH-HOOK RIGHT/STRAIGHT ARROW               |
| QD - COMBO. LEFT/STRAIGHT ARROW       | QX - FISH-HOOK LEFT/RIGHT ARROW                   |
| QE - COMBO. RIGHT/STRAIGHT ARROW      | QY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW          |
| QF - COMBO. LEFT/RIGHT ARROW          | QZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW            |
| QG - COMBO. LEFT/RIGHT/STRAIGHT ARROW |   |
| QH - HANDICAP PARKING                 | RA - FISH-HOOK W/CIRCLE LEFT ARROW                |
| QI - ALPHANUMERIC CHAR.               | RB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW       |
| QJ - BICYCLE SYMBOL                   | RC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW |
| QK - BICYCLE STRAIGHT ARROW           | RD - COMBO LEFT/U-TURN ARROW                      |
| QL - BICYCLE CHAR.                    |   |
| QM - 12" YIELD LINE TRIANGLE          |   |
| QN - 24" YIELD LINE TRIANGLE          |   |
| QO - BICYCLE LEFT ARROW               |   |
| QP - MERGE ARROW                      |   |
| QQ - RAMP ARROW                       |   |
| QR - SHARROW                          |   |
| QS - BICYCLE LOOP DETECTOR            |   |
| QT - U-TURN ARROW                     |   |

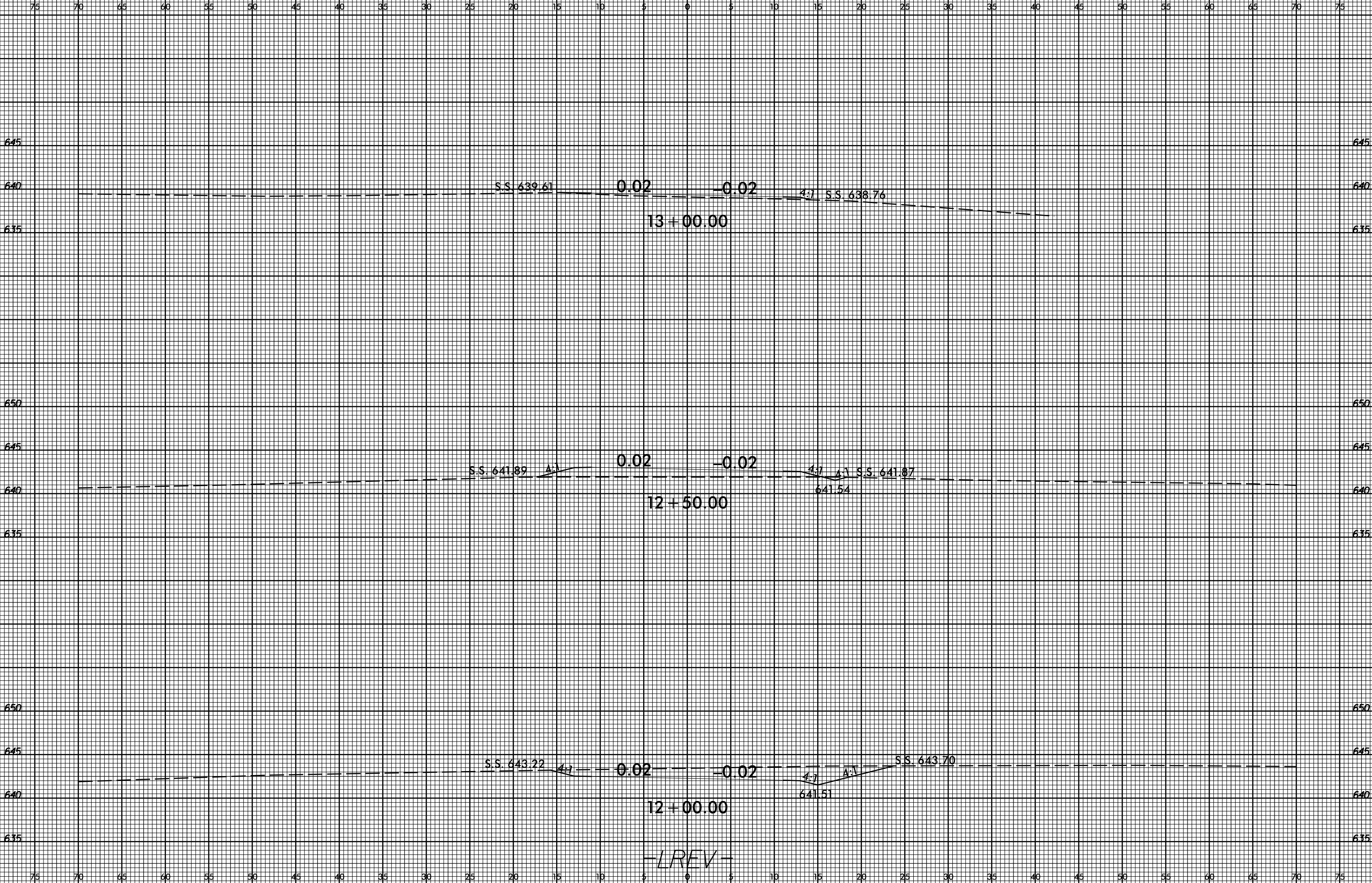
RICHFIELD ELEMENTARY SCHOOL DRIVE

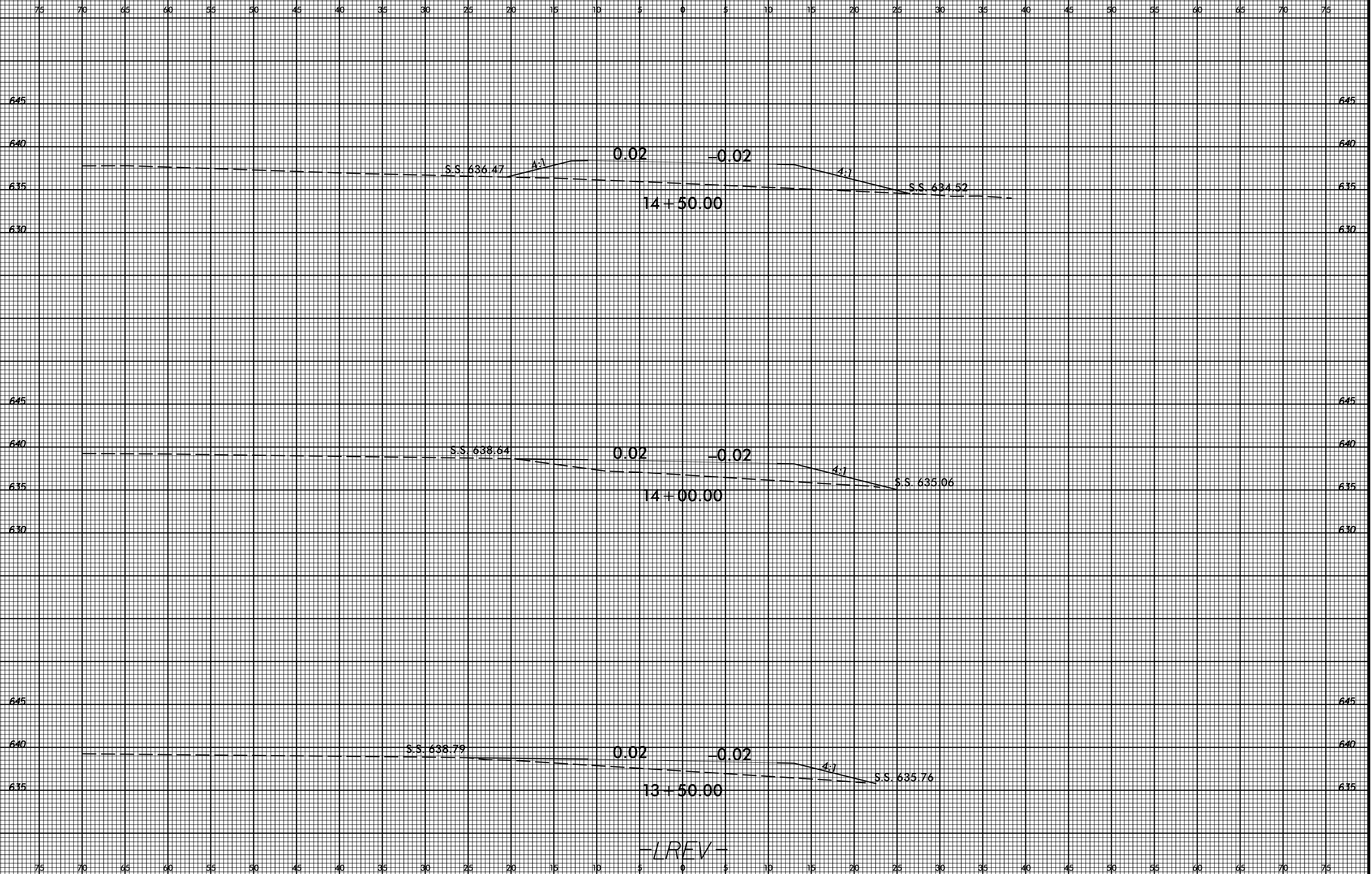
SCALE	1"=50'
DATE	4-2022
DWG. BY	TBL
DESIGN BY	TBL
APPROVED	JDH



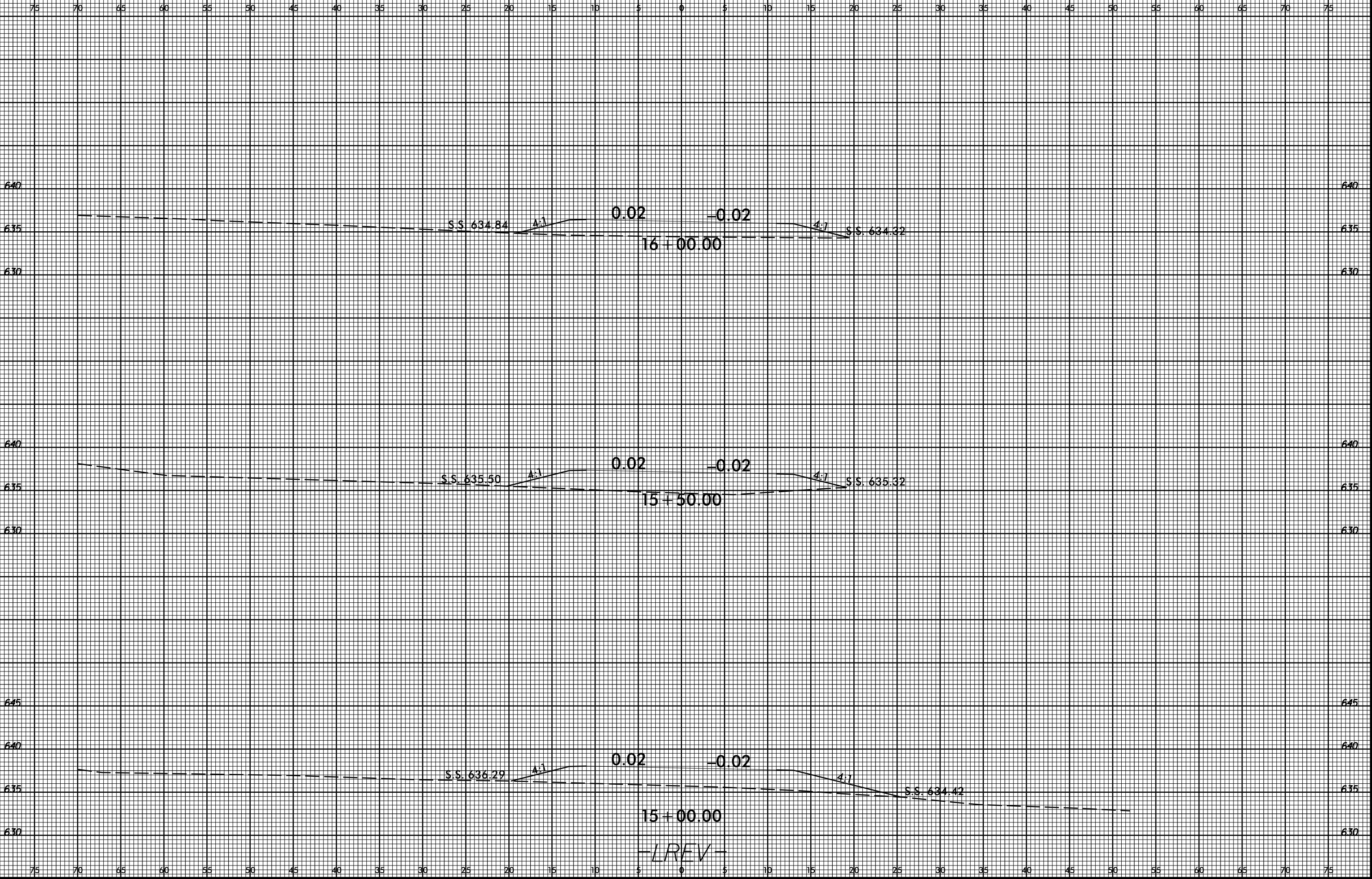
REVISIONS



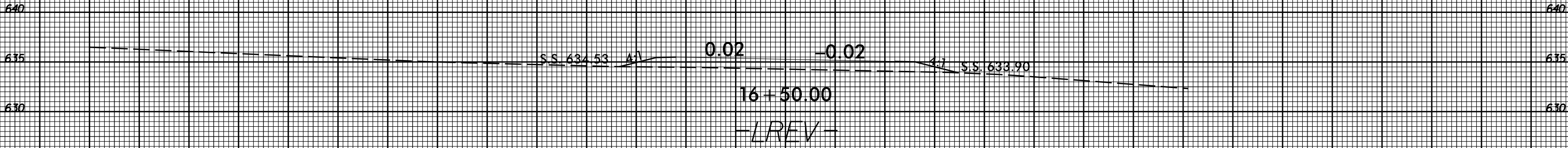
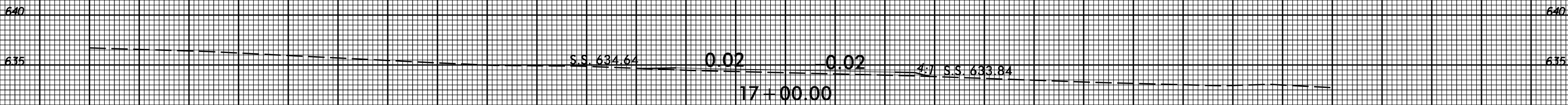
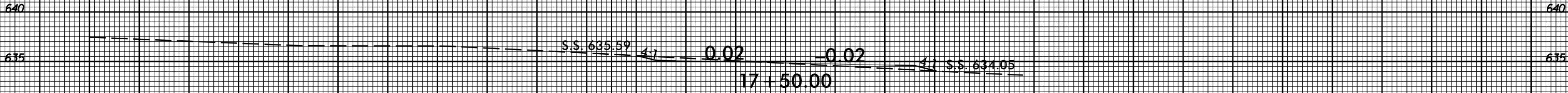


-LREV-



-LREV-

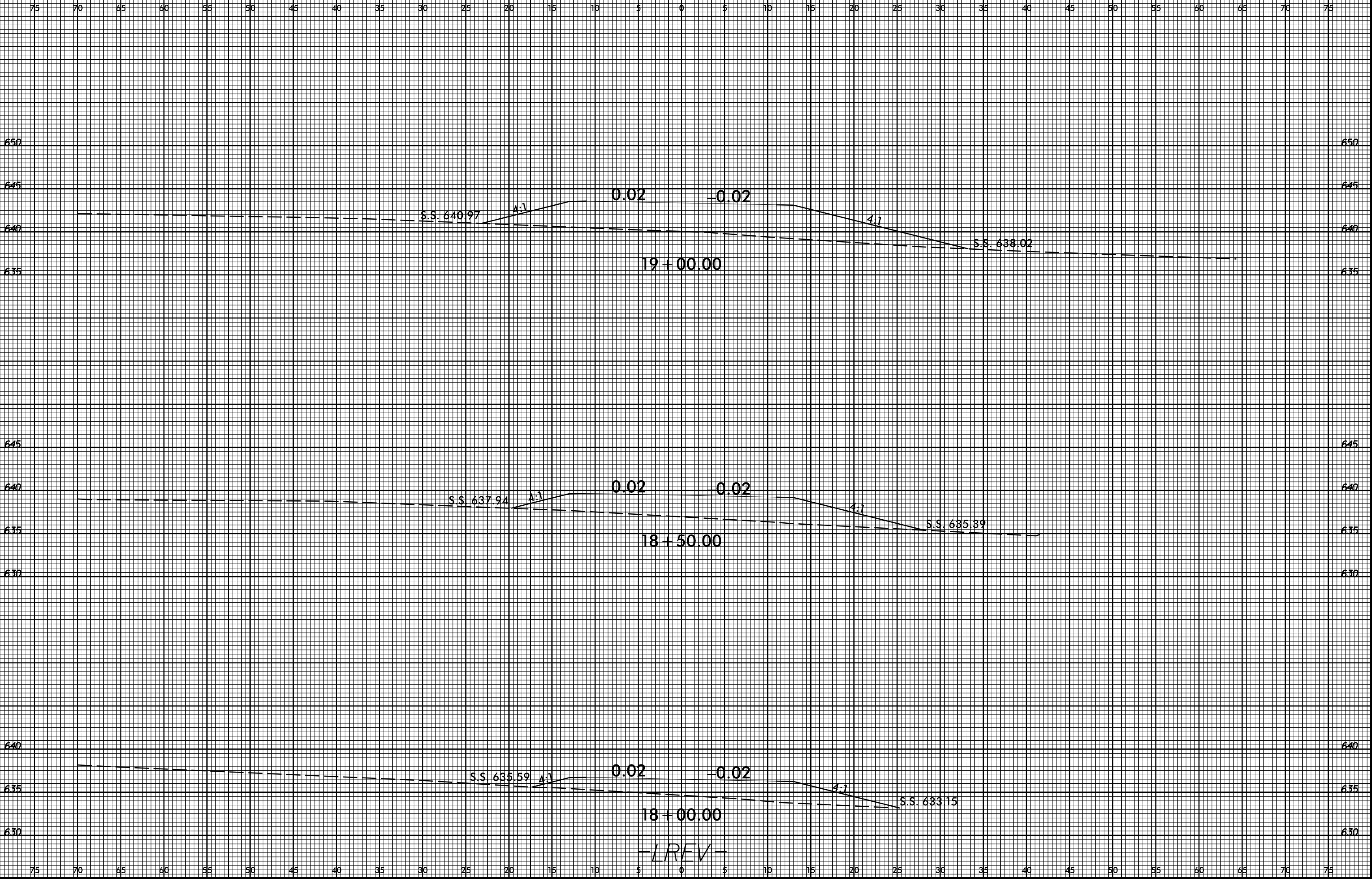
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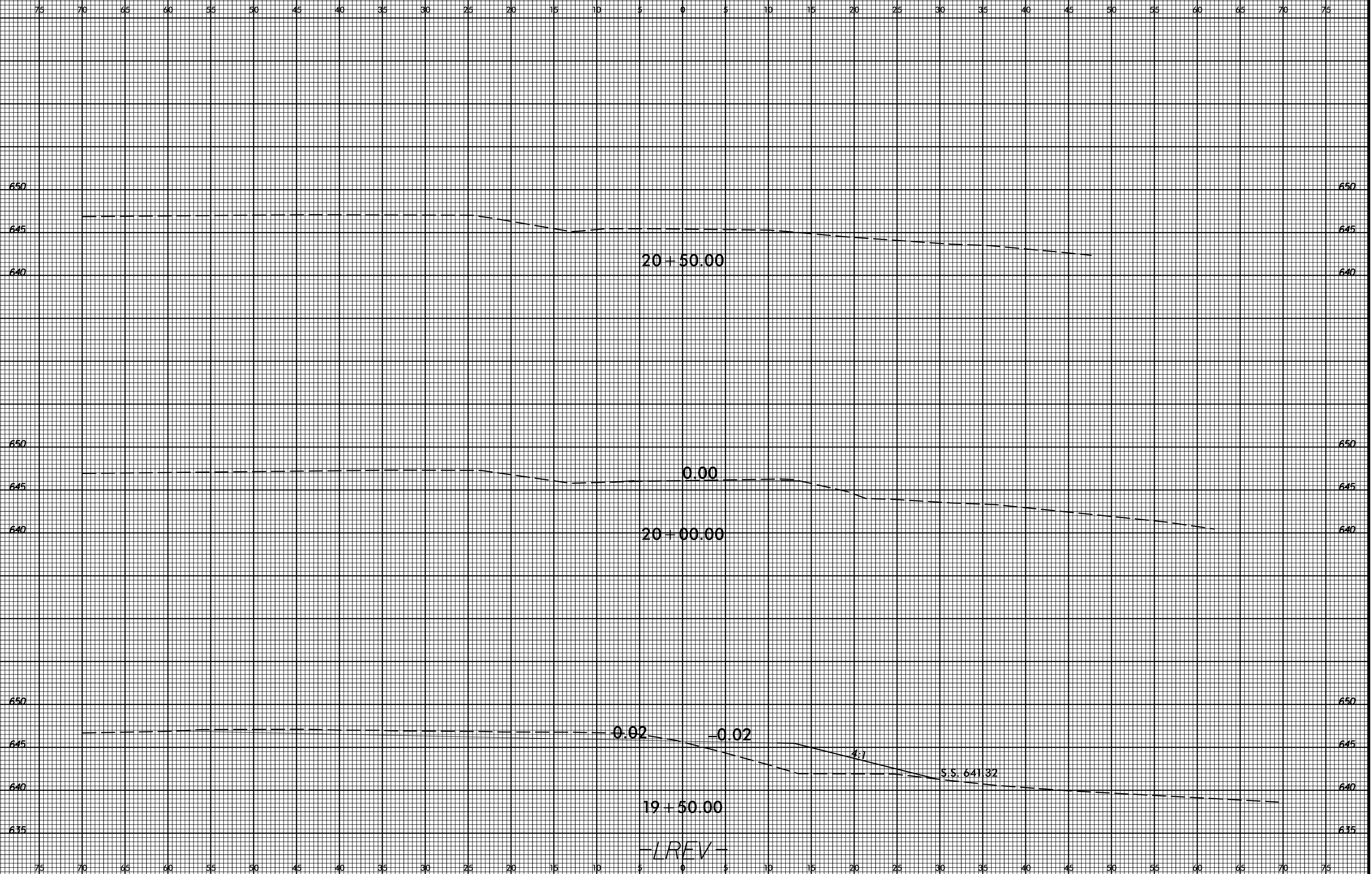
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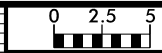




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