LAX

FEBRUARY 2024

PROJECT ID: 7373-00-74

WITH: NA

COUNTY: MONROE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plan)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 298

N

DESIGN DESIGNATION			STA. 13+89.89 - STA. 63+50	STA. 63+50 - STA. 191+57.09
A.A.D.T.	(2024)	=	2,490	770
A.A.D.T.	(2044)	=	3,700	1,140
D.H.V.	(2044)	=	333	103
D.D.		=	60/40	60/40
T.		=	12.9%	11.2%
DESIGN SPEED		=	60 MPH	50 MPH
ESALS		=	490,000	140,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300 EB)
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (955.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T LA GRANGE - T BYRON (CTH ET)

FORBES ROAD TO CTH N

CTH ET

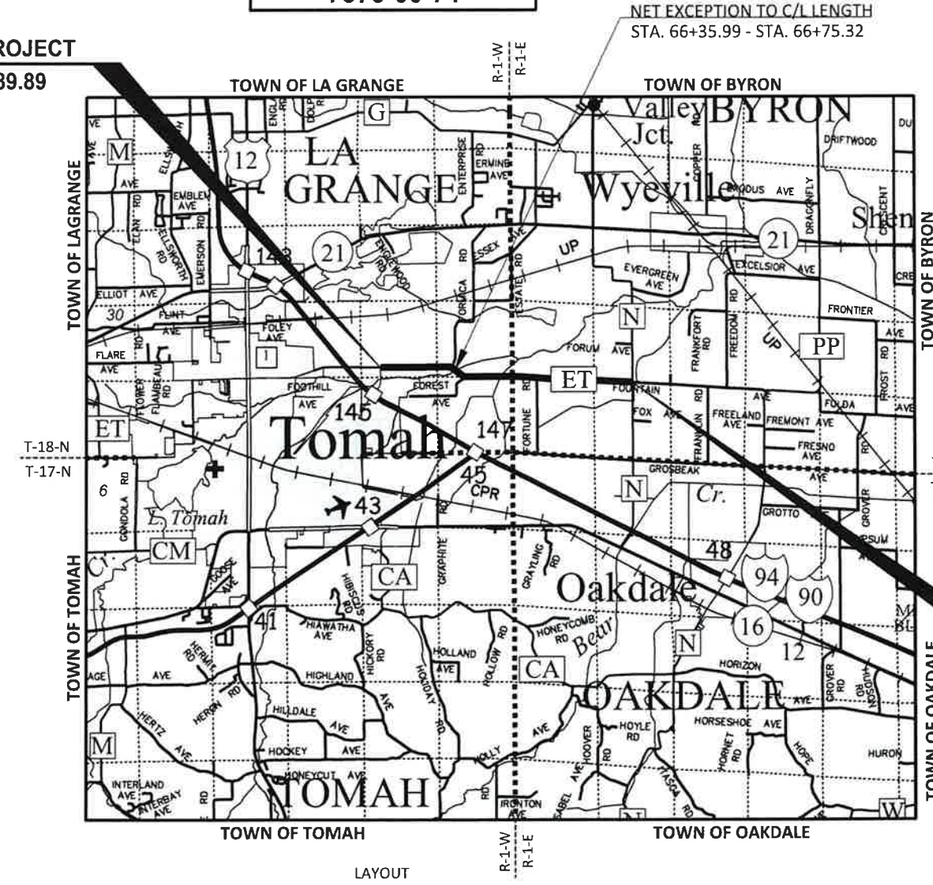
MONROE COUNTY

STATE PROJECT NUMBER
7373-00-74

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7373-00-74	WISC 2024254	1

BEGIN PROJECT
STA. 13+89.89
Y = 401,144.04
X = 716,312.27

NET EXCEPTION TO C/L LENGTH
STA. 66+35.99 - STA. 66+75.32



END PROJECT
STA. 191+57.09

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 3.358 MILES

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MONROE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE MAY BE USED AS GROUND DISTANCES.

ELEVATION SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88 (2012).

ACCEPTED FOR

COUNTY ____ of MONROE

10/31/23 (Date) (Highway Commissioner)

ORIGINAL PLANS PREPARED BY

JEWELL associates engineers, inc
Engineers - Architects - Surveyors

WISCONSIN
DANIEL J. GERLING
E-45025
EAU CLAIRE
WIS.
PROFESSIONAL ENGINEER

10/23/23 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	JEWELL ASSOCIATES ENGINEERS, INC
Designer	JEWELL ASSOCIATES ENGINEERS, INC
Project Manager	LORRAINE BETZEL, P.E.
Regional Examiner	SW REGION
Regional Supervisor	KYLE HEMP, P.E.

APPROVED FOR THE DEPARTMENT
DATE: 11/1/23
Lorraine Betzel (Signature)

E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\M08455_TITLE.DWG
PLOT DATE : 10/6/2023 9:34:26 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : TITLE SHEET 1 IN EQ 2 MI

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20 OR NO. 40), AND EROSION MATTED/MULCHED AS DIRECTED BY THE ENGINEER. MULCH/EROSION MAT ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

SILT FENCE, TEMPORARY DITCH CHECK, AND CULVERT PIPE CHECK BID ITEMS SHALL BE PLACED AS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

THE EXACT LOCATION OF PRIVATE AND FIELD ENTRANCES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

ACCURACY OF INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.

CURB AND GUTTER ELEVATIONS ARE GIVEN ON THE FLANGE LINE, UNLESS OTHERWISE NOTED.

ALL RADII DIMENSIONS ON THE PLAN FOR CURB AND GUTTER ARE TO THE FLANGE OF THE CURB AND GUTTER. ALL RADII DIMENSIONS ON THE PLAN THAT DO NO HAVE CURB AND GUTTER ARE TO THE EDGE OF ASPHALT.

EXISTING DRIVEWAYS SHALL BE RESTORED IN KIND (UNLESS OTHERWISE NOTED) AND THEIR LOCATION VERIFIED BY THE ENGINEER IN THE FIELD.

HMA PAVMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

4.25-INCHES OF HMA PAVEMENT 4 LT 58-28 S SHALL BE CONSTRUCTED WITH A 2.5-INCH LOWER LAYER AND A 1.75 INCH UPPER LAYER.

3.5-INCHES OF HMA PAVEMENT 4 LT 58-28 S SHALL BE CONSTRUCTED WITH A 1.75-INCH LOWER LAYER AND A 1.75-INCH UPPER LAYER.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATIONS OF ASPHALT DRIVEWAYS, OR SIDE ROADS/HIGHWAYS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER IN THE FIELD OR AS SHOWN ON THE PLANS.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE OR STOCKPILE EQUIPMENT BEYOND THE EXISTING TOE OF SLOPE IN WETLAND AREAS SHOWN IN THE PLAN.

THE SOILS REPORT MAY BE OBTAINED FROM THE ENGINEER.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE, OR PASSING LANE.

EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADII POINTS IN THE CURB AND GUTTER.

CONTACTS

DESIGN CONSULTANT:
JEWELL ASSOCIATES ENGINEERS, INC.
3406 OAKWOOD PARKWAY, SUITE 300
EAU CLAIRE, WI 54701
ATTN: DANIEL GERLING, P.E.
PH: (715) 900-2602
EMAIL: daniel.gerling@jewellassoc.com

WDNR LIAISON:
WISCONSIN DEPT. OF NATURAL RESOURCES
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
ATTN: KAREN KALVELAGE
PH: (608) 406-7880
EMAIL: karen.kalvelage@wisconsin.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION:
DTSD SW REGION
2101 WRIGHT STREET
MADISON, WI 53704
ATTN: LORRAINE BETZEL, P.E.
PH: (608) 246-3279
EMAIL: lorraine.betzel@dot.wi.gov

MONROE COUNTY HIGHWAY DEPARTMENT:
DAVID OHNSTAD, COMMISSIONER
803 WASHINGTON STREET
SPARTA, WI 54656
PH: (608) 269-8739
CELL: (608) 487-6216
EMAIL: david.ohnstad@co.monroe.wi.us

TOWN OF BYRON:
ALLEN BERNHARDT, CHAIRMAN
12850 CO HWY N
TOMAH, WI 54660
PH: (608) 372-7048

TOWN OF LA GRANGE:
BRENDAN SMITH, CHAIRMAN
9774 ELAN ROAD
TOMAH, WI 54660
PH: (608) 387-6043
EMAIL: chairman@townoflagrangemcwi.gov

UTILITIES

ELECTRICITY
OAKDALE ELECTRIC COOPERATIVE
ATTN: TRAVIS CHAMPLIN
P.O. BOX 40
OAKDALE, WI 54649
PH: (608) 372-8848
CELL: (608) 343-3400
EMAIL: travisc@oakdalerec.com

GAS/PETROLEUM
WE ENERGIES
ATTN: JEREMY SLOWINSKI
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
PH: (715) 421-7251
CELL: (715) 418-1831
EMAIL: jeremy.slowinski@we-energies.com

COMMUNICATION LINE
BRIGHTSPEED
ATTN: MARK SCRIBNER
1905 WARD AVENUE
LA CROSSE, WI 54601
PH: (715) 492-7976
CELL: (715) 492-7976
EMAIL: mark.scribner@brightspeed.com

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

LIST OF STANDARD ABBREVIATIONS

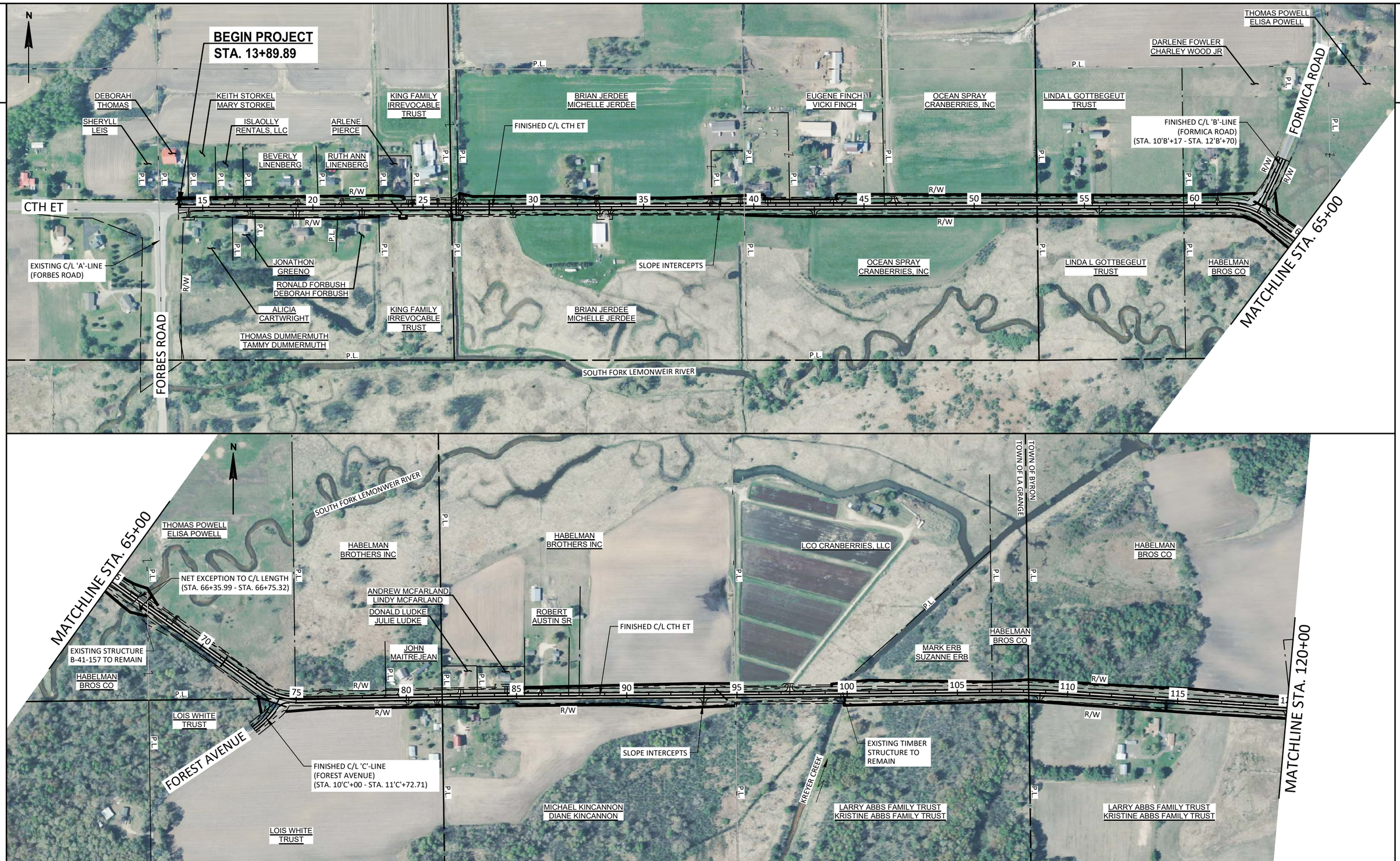
ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
AVG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT or LF	Linear Foot	S	South
BAD	Base Aggregate Dense	LC	Long Chord of Curve	SQ	Square
BK	Back	MH	Manhole	SF or SQ FT	Square Feet
BF	Back Face	MB	Mailbox	SY or SQ YD	Square Yard
BM	Bench Mark	ML or M/L	Match Line	STD	Standard
BR	Bridge	N	North	SDD	Standard Detail Drawings
C or C/L	Center Line	Y	North Grid Coordinate	STH	State Trunk Highways
CC	Center to Center	OD	Outside Diameter	STA	Station
C.E.	Commercial Entrance	PLE	Permanent Limited Easement	SS	Storm Sewer
CTH	County Trunk Highway	PT	Point	SG	Subgrade
CR	Creek	PC	Point of Curvature	SE	Superelevation
CR	Crushed	PI	Point of Intersection	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PRC	Point of Reverse Curvature	SV	Septic Vent
CP	Culvert Pipe	PT	Point of Tangency	T	Tangent
C & G	Curb and Gutter	POC	Point On Curve	TEL	Telephone
D	Degree of Curve	POT	Point on Tangent	TEMP	Temporary
DHV	Design Hour Volume	PVC	Polyvinyl Chloride	TI	Temporary Interest
DIA	Diameter	PCC	Portland Cement Concrete	TLE	Temporary Limited Easement
E	East	LB	Pound	t	Ton
X	East Grid Coordinate	PSI	Pounds Per Square Inch	T or TN	Town
ELEC	Electric (al)	P.E.	Private Entrance	TRANS	Transition
EL or ELEV	Elevation	R	Radius	TL or T/L	Transit Line
ESALS	Equivalent Single Axle Loads	RR	Railroad	T	Trucks (percent of)
EBS	Excavation Below Subgrade	R	Range	TYP	Typical
FF	Face to Face	RL or R/L	Reference Line	UNCL	Unclassified
F.E.	Field Entrance	RP	Reference Point	UG	Underground Cable
F	Fill	RCCP	Reinforced Concrete Culvert Pipe	USH	United States Highway
FG	Finished Grade	REQD	Required	VAR	Variable
FL or F/L	Flow Line	RES	Residence or Residential	V	Velocity or Design Speed
FT	Foot	RW	Retaining Wall	VERT	Vertical
FTG	Footing	RT	Right	VC	Vertical Curve
GN	Grid North	RHF	Right-Hand Forward	VOL	Volume
HT	Height	R/W	Right-of-Way	WM	Water Main
CWT	Hundredweight	RD	Road	WV	Water Valve
HYD	Hydrant	R	River	W	West
INL	Inlet			WB	Westbound
ID	Inside Diameter			YD	Yard

ORDER OF SECTION 2 SHEETS:

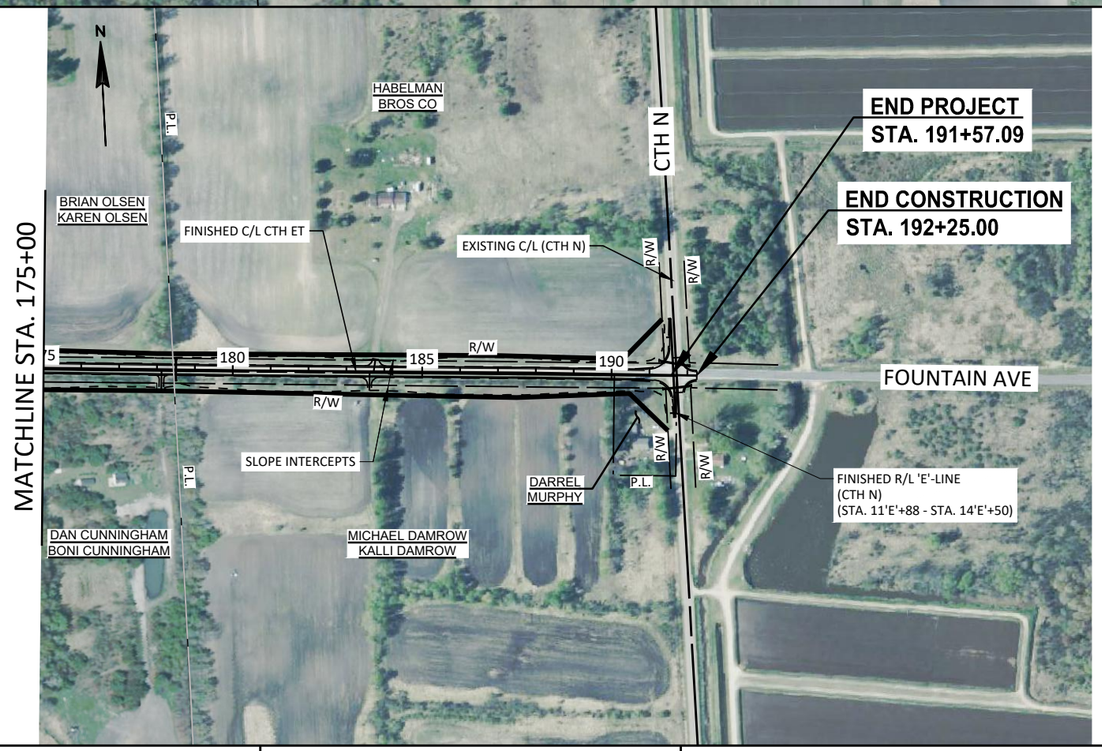
- WRITTEN MATERIAL
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- INTERSECTION DETAILS
- PAVING DETAILS
- BEAMGUARD DETAILS
- EROSION CONTROL PLAN
- PERMANENT SIGNING/PAVEMENT MARKING
- TRAFFIC CONTROL
- ALIGNMENT DETAILS

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA= 40.85 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 33.10 ACRES

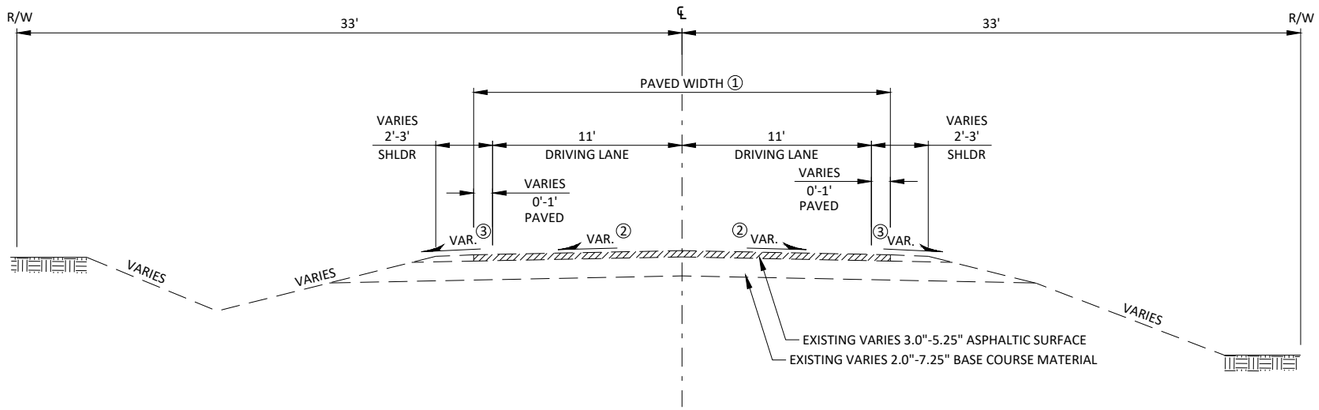


PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PROJECT OVERVIEW	SHEET 3	E



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PROJECT OVERVIEW.DWG PLOT DATE : 10/20/2023 1:06:28 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : LAYOUT2



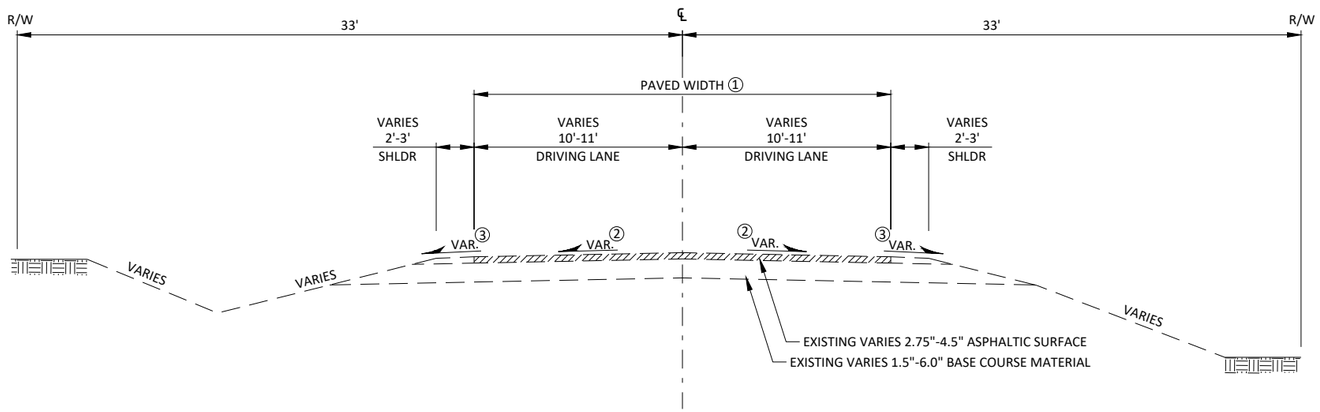
① PAVED WIDTH VARIES:
STA. 13+89.89 - STA. 28+75: 24'
STA. 28+75 - STA. 63+50: 22'

② PAVEMENT CROSS SLOPE VARIES:
STA. 13+89.89 - STA. 63+50: 0.11% - 6.4%

③ SHOULDER CROSS SLOPE VARIES:
STA. 13+89.89 - STA. 63+50: 0.79% - 13.2%

TYPICAL EXISTING SECTION

CTH ET
STA. 13+89.89 - STA. 63+50



① PAVED WIDTH VARIES:
STA. 63+50 - STA. 76+00: 22'
STA. 76+00 - STA. 187+00: 20'
STA. 187+00 - 191+57.09: 22'

② PAVEMENT CROSS SLOPE VARIES:
STA. 63+50 - STA. 191+57.09: 0.02% - 6.2%

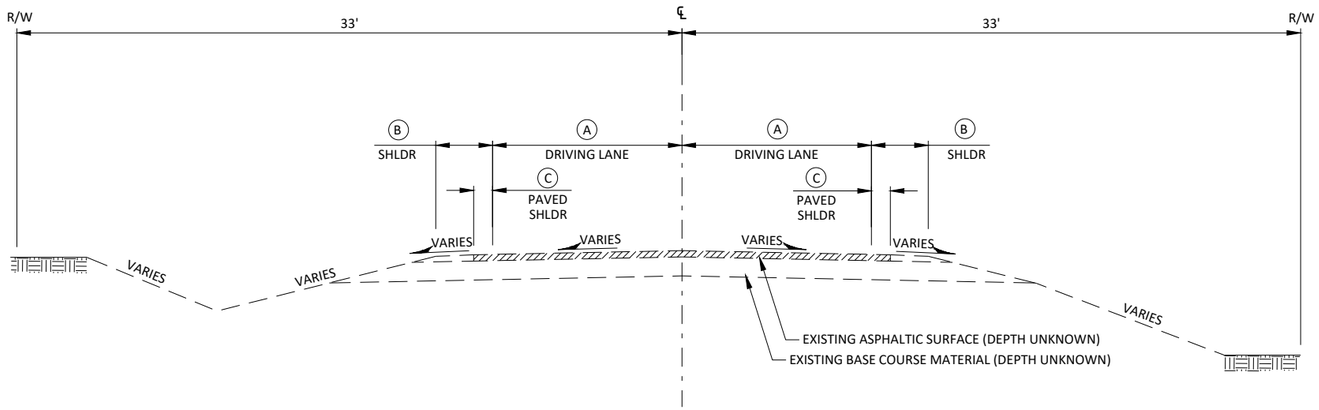
③ SHOULDER CROSS SLOPE VARIES:
STA. 63+50 - STA. 191+57.09: 0.92% - 13.8%

TYPICAL EXISTING SECTION

CTH ET
STA. 63+50 - STA. 191+57.09

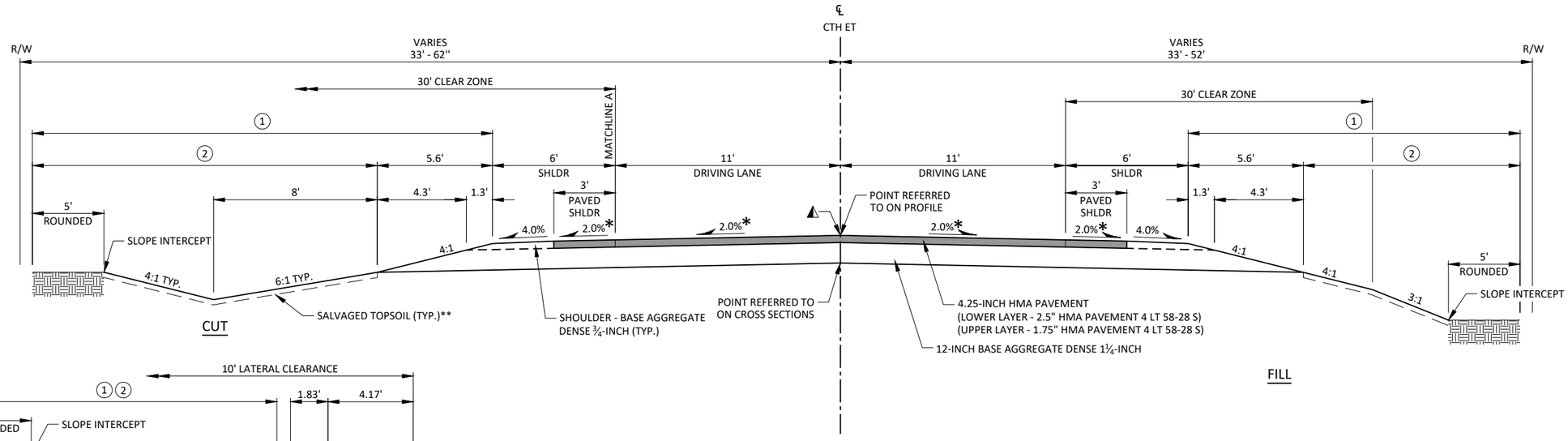
FOR INFORMATION ONLY
BORING LOG

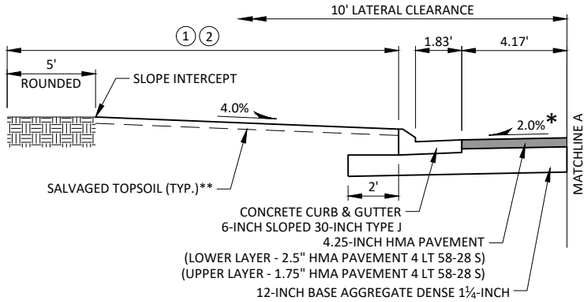
NO.	STATION/OFFSET (+/-)	EXISTING ASPHALTIC SURFACE THICKNESS (IN.)	BASE COURSE MATERIAL (IN.)
1	24+97, 5' RT.	5.25	7.25
2	36+94, 6' LT.	5.0	2.0
3	48+91, 5.5' RT.	3.75	6.25
4	60+88, 5' LT.	3.0	5.0
5	72+85, 5' RT.	3.0	4.0
6	84+82, 4.5' LT.	4.5	2.5
7	96+79, 5' RT.	3.5	3.5
8	108+76, 4.5' LT.	2.75	4.25
9	120+73, 5' RT.	4.0	3.0
10	132+70, 5' LT.	3.5	1.5
11	144+67, 5' RT.	3.5	6.0
12	156+64, 5.5' LT.	4.5	3.5
13	168+61, 4.5' RT.	3.75	3.25
14	180+58, 5' LT.	2.75	2.25



TYPICAL EXISTING SECTION

SIDEROADS	A FT.	B FT.	C FT.
'B'-LINE (FORMICA ROAD)	11'	4'	1'
'C'-LINE (FOREST AVENUE)	10'	3'	0'
'D'-LINE (FORTUNE ROAD)	10'	3'	0'
'E'-LINE (CTH N)	12'	3'	0'





TYPICAL PARTIAL FINISHED URBAN SECTION

STA. 24+00 - STA. 26+25, LT.
STA. 40+50 - STA. 44+00, LT.

TYPICAL FINISHED SECTION

CTH ET
STA. 13+89.89 - STA. 60+44

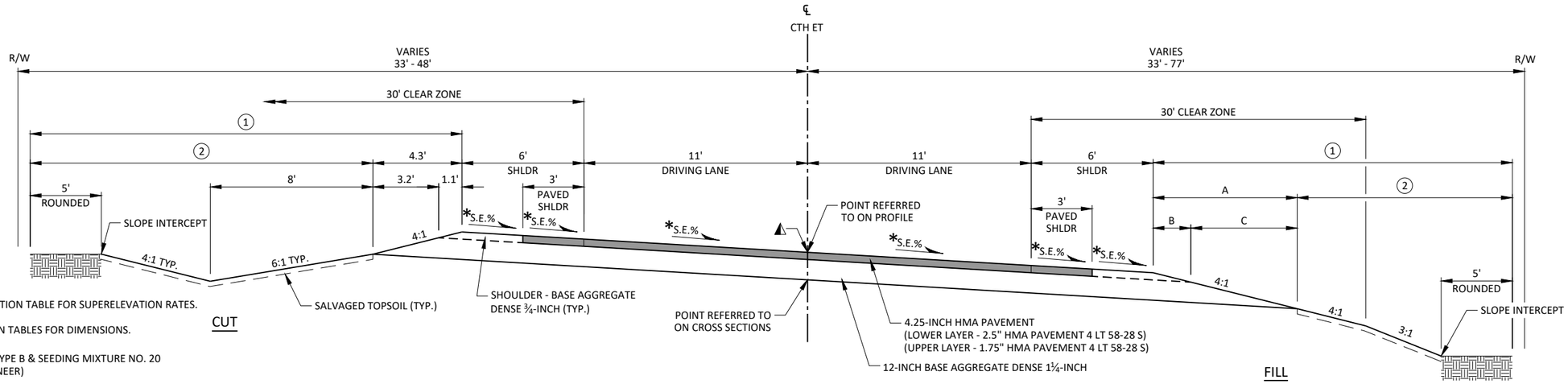
* STA. 25+50 - STA. 26+28, LT. - VARIES 2.0% - 2.3%

** TOPSOIL & SEEDING MIXTURE NO. 40:
STA. 13+89 - STA. 26+50, LT.
STA. 13+89 - STA. 24+00, RT.

(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

◭ ASPHALTIC RUMBLE STRIPS, CENTERLINE SINUSOIDAL REQ'D. SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.



TYPICAL FINISHED SUPERELEVATED SECTION

CTH ET
STA. 60+44 - STA. 63+50

* S.E. - SEE SUPERELEVATION TABLE FOR SUPERELEVATION RATES.

A/B/C - SEE SUPERELEVATION TABLES FOR DIMENSIONS.

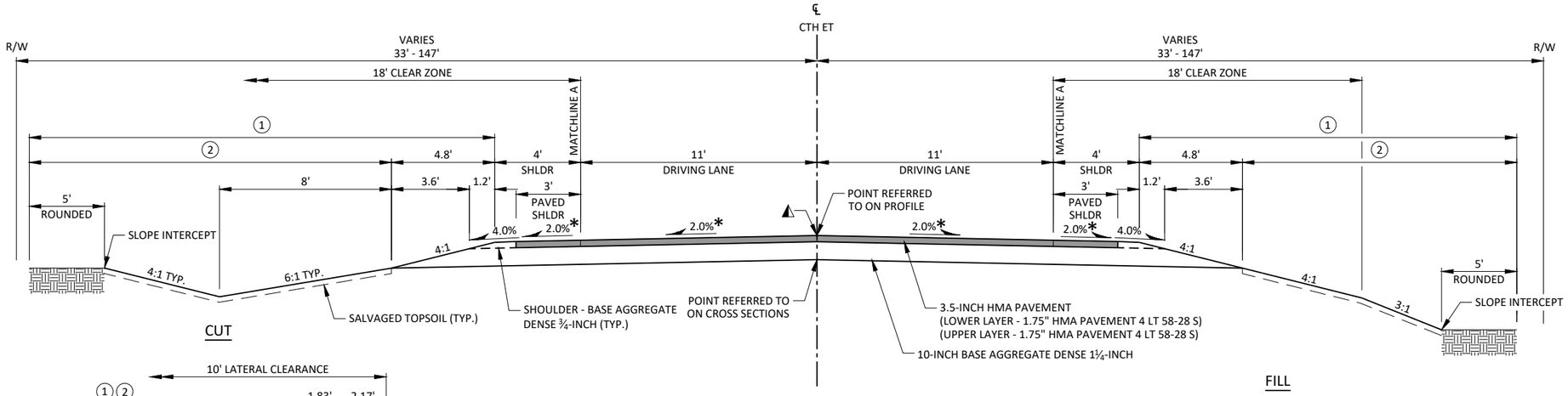
(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

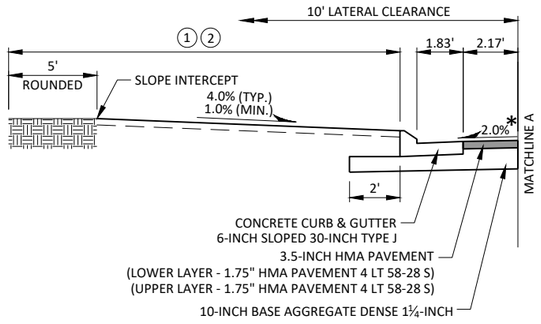
(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

THE LOW SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATIONS IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

◭ ASPHALTIC RUMBLE STRIPS, CENTERLINE SINUSOIDAL REQ'D. SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET 7	E





TYPICAL PARTIAL FINISHED URBAN SECTION

NOTE: LEFT SIDE SHOWN. RIGHT SIDE SIMILAR.
STA. 83+00 - STA. 85+40, LT.
STA. 83+00 - STA. 84+50, RT.

TYPICAL FINISHED SECTION

CTH ET
STA. 64+40 - STA. 66+35.99
STA. 66+75.32 - STA. 72+13
STA. 76+26 - STA. 105+62
STA. 111+23 - STA. 191+57.09

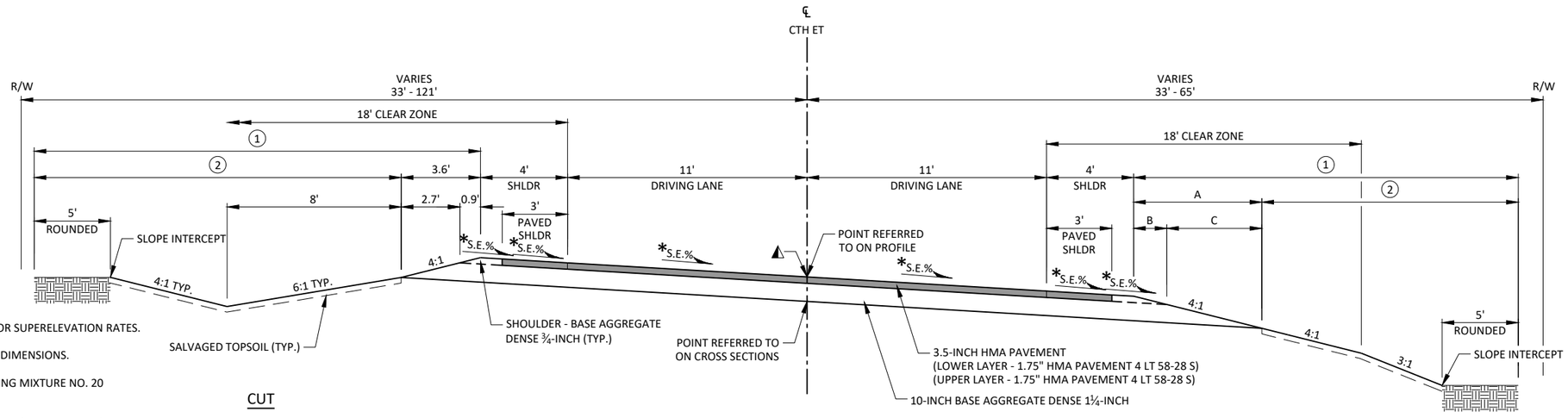
* STA. 83+00 - STA. 83+50, LT. & RT. - VARIES 1.0% - 2.0%

(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

◭ ASPHALTIC RUMBLE STRIPS, CENTERLINE SINUSOIDAL REQ'D. SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

NOTE: CUT SECTION: 4:1 (FORESLOPE)/4:1 (BACKSLOPE):
STA. 107+00 - STA. 111+00, LT.
STA. 148+00 - STA. 159+00, RT.
STA. 165+00 - STA. 169+00, RT.
STA. 173+00 - STA. 176+00, RT.
STA. 179+00 - STA. 189+50, RT.



* S.E. - SEE SUPERELEVATION TABLE FOR SUPERELEVATION RATES.

A/B/C - SEE SUPERELEVATION TABLES FOR DIMENSIONS.

(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

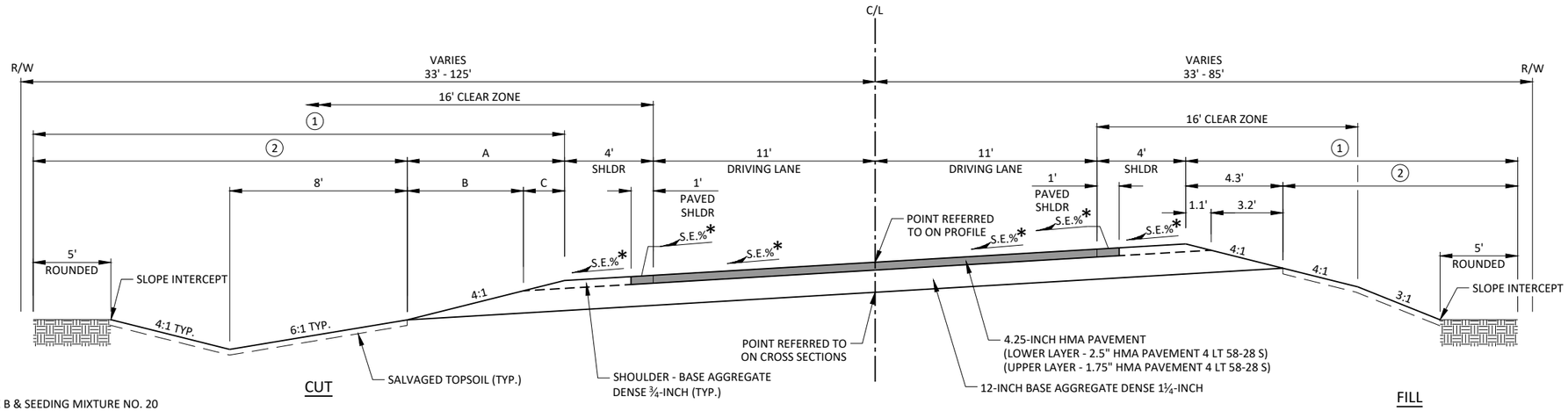
THE LOW SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATIONS IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

TYPICAL FINISHED SUPERELEVATED SECTION

CTH ET
STA. 63+50 - 64+40
STA. 72+13 - STA. 76+26
STA. 105+62 - STA. 111+23

◭ ASPHALTIC RUMBLE STRIPS, CENTERLINE SINUSOIDAL REQ'D. SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET 8	E



1 LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

2 LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

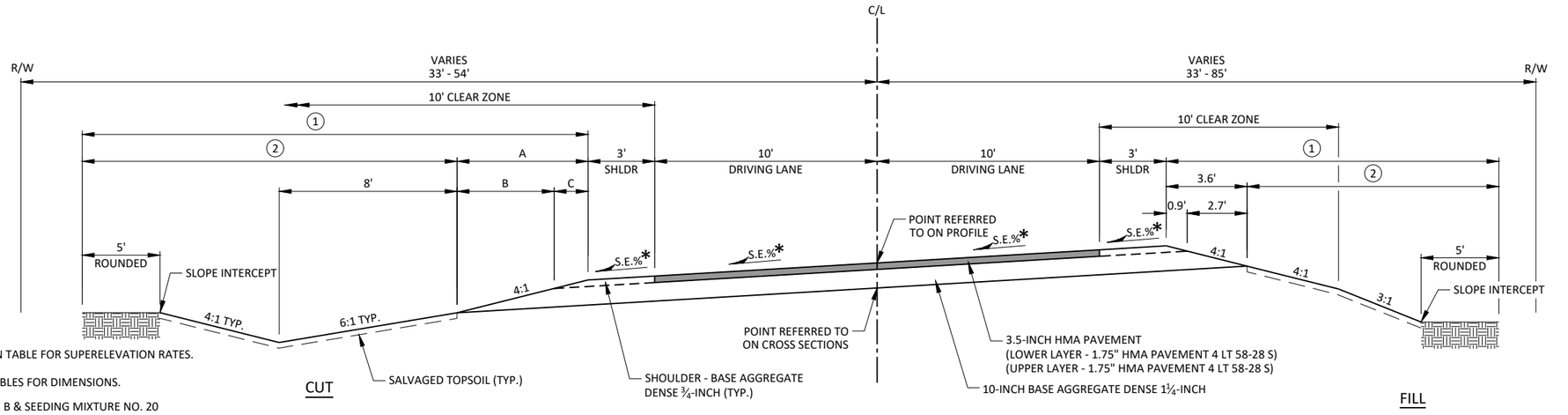
THE LOW SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATIONS IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

* S.E. - SEE SUPERELEVATION TABLE FOR SUPERELEVATION RATES.

A/B/C - SEE SUPERELEVATION TABLES FOR DIMENSIONS.

TYPICAL FINISHED SUPERELEVATED SECTION

'B'-LINE (FORMICA RD)



* S.E. - SEE SUPERELEVATION TABLE FOR SUPERELEVATION RATES.

A/B/C - SEE SUPERELEVATION TABLES FOR DIMENSIONS.

1 LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

2 LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

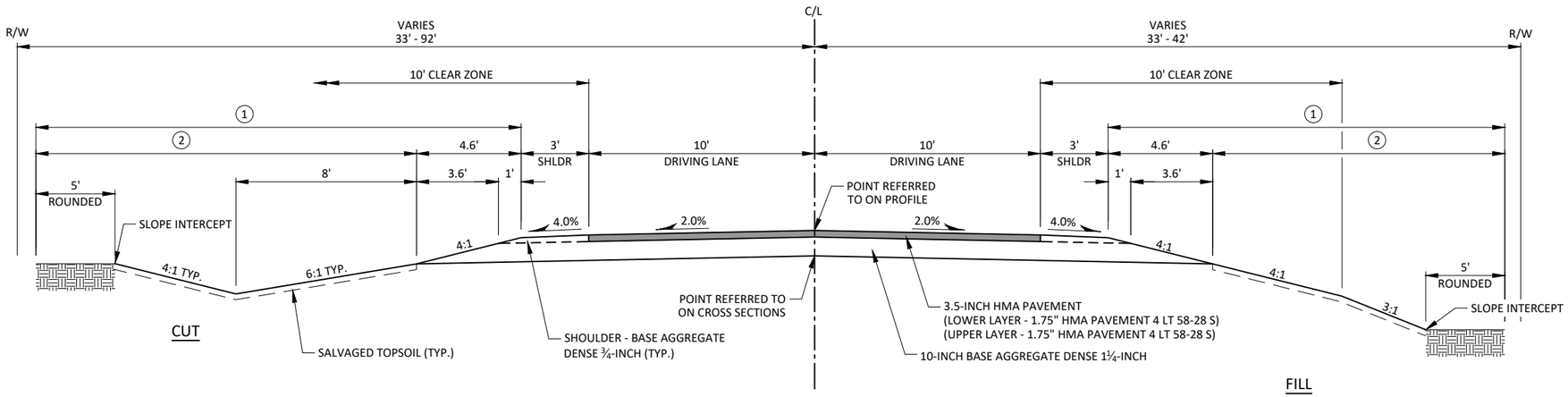
THE LOW SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATIONS IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

TYPICAL FINISHED SUPERELEVATED SECTION

'C'-LINE (FOREST AVE)

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET 9	E

2

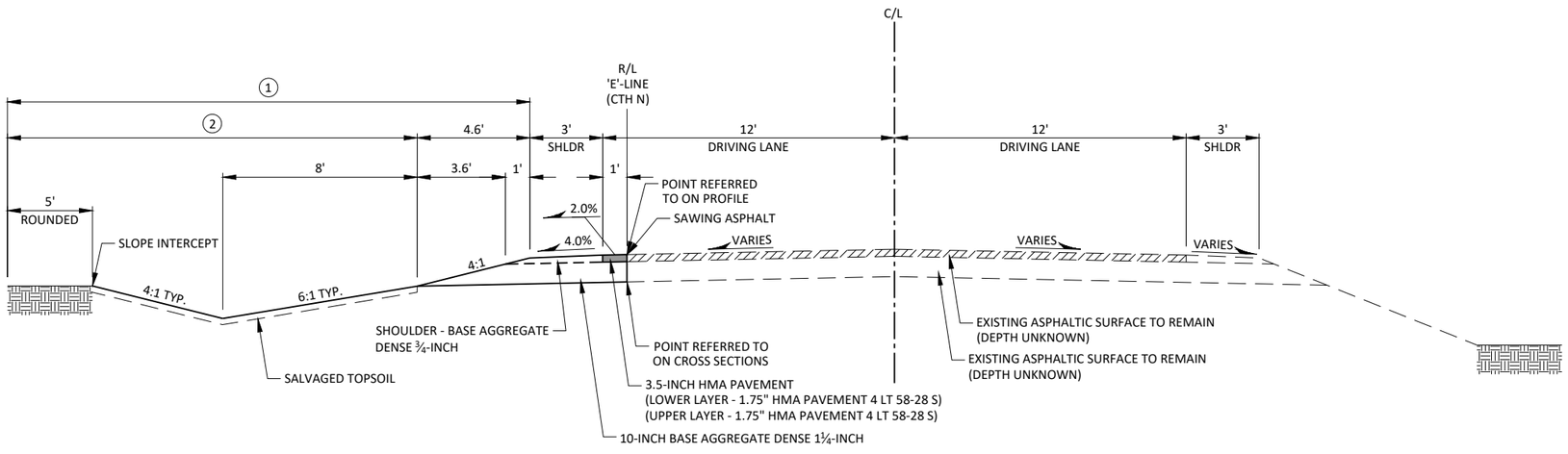


TYPICAL FINISHED SECTION

'D'-LINE (FORTUNE RD)

(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)



(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

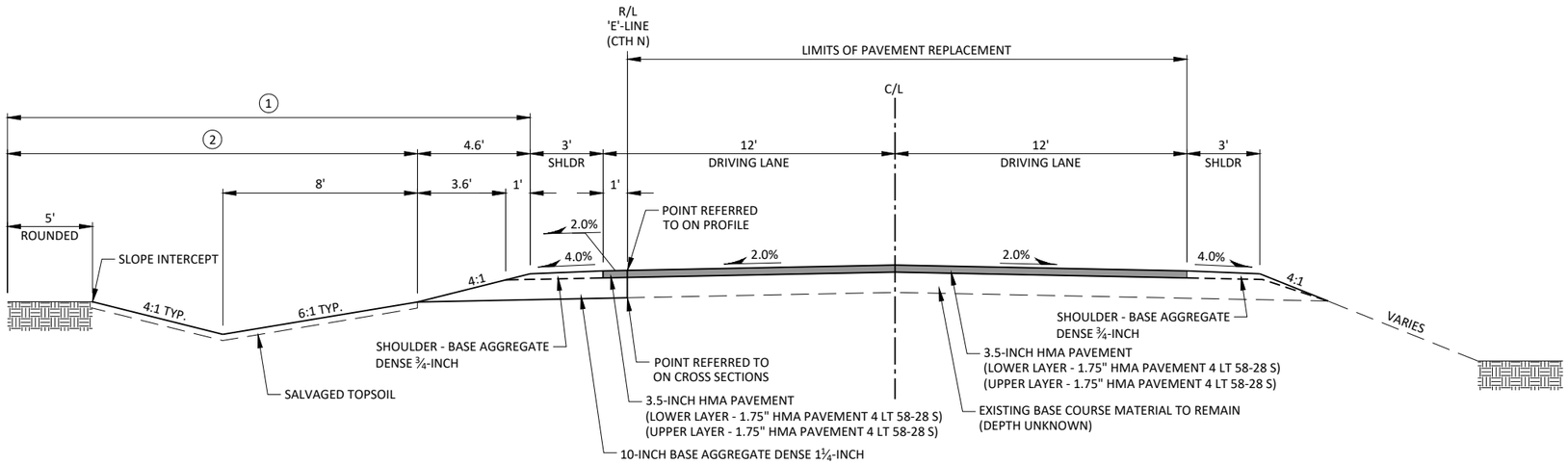
(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED HALF SECTION

'E'-LINE (CTH N)
STA. 11'E'+88 - STA. 12'E'+53
STA. 13'E'+45 - STA. 14'E'+50

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET 10	E

2



(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

TYPICAL FINISHED HALF SECTION

'E'-LINE (CTH N)
STA. 12'E'+53 - STA. 13'E'+45

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET 11	E

SUPERELEVATION TABLE-CURVE 1

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
60+44	◄ 2.0	► 2.0	5.6	1.3	4.3
60+50	◄ 1.6	► 2.0	5.6	1.3	4.3
61+00	► 1.1	► 2.0	5.6	1.3	4.3
61+50	► 3.9	► 3.9	6.4	1.7	4.7
61+87	► 5.9	► 5.9	7.1	1.9	5.2
FULL SUPERELEVATION					
62+97	► 5.9	► 5.9	7.1	1.9	5.2
63+00	► 5.8	► 5.8	7.1	1.9	5.2
63+50	► 3.0	► 3.0	6.0	1.5	4.5
64+00	► 0.2	► 2.0	4.8	1.2	3.6
64+40	◄ 2.0	► 2.0	4.8	1.2	3.6

SUPERELEVATION TABLE-CURVE 2

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
72+13	◄ 2.0	► 2.0	4.8	1.2	3.6
72+50	◄ 2.0	0.0	4.8	1.2	3.6
73+00	◄ 2.8	◄ 2.8	5.1	1.3	3.8
73+50	◄ 5.6	◄ 5.6	5.8	1.5	4.3
73+54	◄ 5.8	◄ 5.8	5.9	1.5	4.4
FULL SUPERELEVATION					
74+85	◄ 5.8	◄ 5.8	5.9	1.5	4.4
75+00	◄ 4.9	◄ 4.9	5.6	1.5	4.1
75+50	◄ 2.2	◄ 2.2	4.9	1.2	3.7
76+00	◄ 2.0	► 0.6	4.8	1.2	3.6
76+26	◄ 2.0	► 2.0	4.8	1.2	3.6

SUPERELEVATION TABLE-CURVE 3

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
105+62	◄ 2.0	► 2.0	4.8	1.2	3.6
106+00	◄ 0.4	► 2.0	4.8	1.2	3.6
106+50	► 1.7	► 2.0	4.8	1.2	3.6
106+63	► 2.2	► 2.2	4.9	1.2	3.7
FULL SUPERELEVATION					
110+22	► 2.2	► 2.2	4.9	1.2	3.7
110+50	► 1.0	► 2.0	4.8	1.2	3.6
111+00	◄ 1.0	► 2.0	4.8	1.2	3.6
111+23	◄ 2.0	► 2.0	4.8	1.2	3.6

SUPERELEVATION TABLE-CURVE 4

MAINTAIN NORMAL CROWN THROUGH CURVE 4

SUPERELEVATION TABLE-CURVE 5

MAINTAIN NORMAL CROWN THROUGH CURVE 5

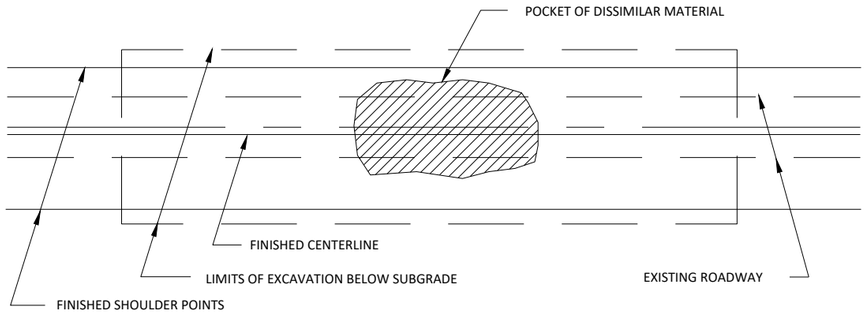
SUPERELEVATION TABLE-CURVE 6

MAINTAIN NORMAL CROWN THROUGH CURVE 6

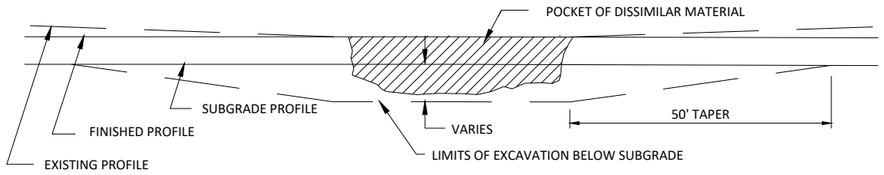
SUPERELEVATION TABLE-CURVE 7

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
10'C'+00	MATCH EXISTING	MATCH EXISTING	4.6	1.0	3.6
10'C'+50	◄ 2.0	0.0	4.6	1.0	3.6
11'C'+00	◄ 2.0	◄ 2.0	4.6	1.0	3.6
11'C'+50	◄ 2.0	► 0.7	4.6	1.0	3.6
11'C'+72.71	◄ 2.0	► 2.0	4.6	1.0	3.6

2

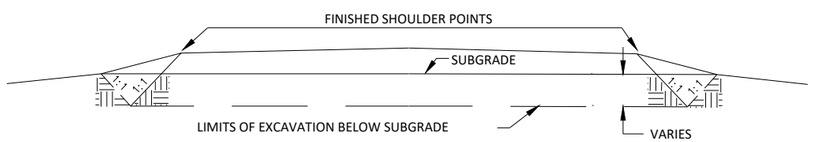


PLAN VIEW



PROFILE VIEW

RURAL EXCAVATION BELOW SUBGRADE (E.B.S.)

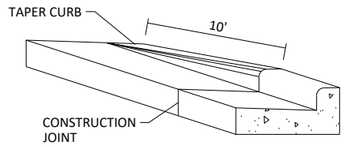


CROSS SECTION VIEW

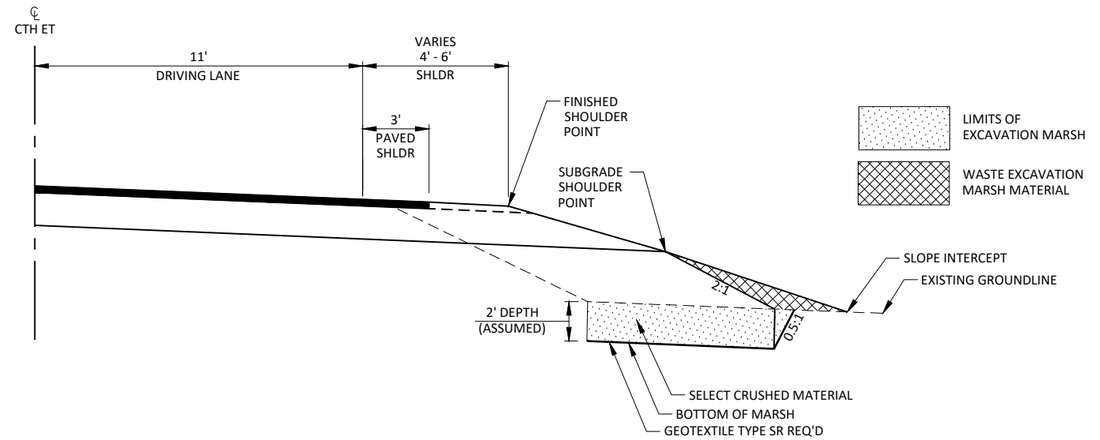
1. EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

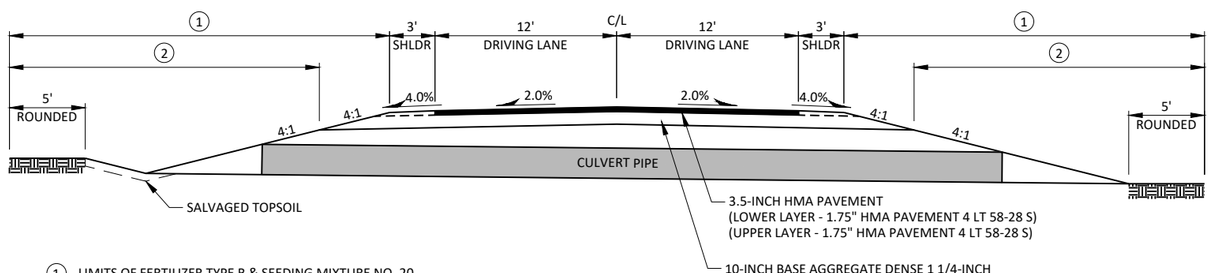
3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED. LATERAL LIMITS OF EXCAVATION SHALL BE THE SUBGRADE SHOULDER POINTS.



DETAIL OF CURB & GUTTER TERMINI



TYPICAL EXCAVATION MARSH

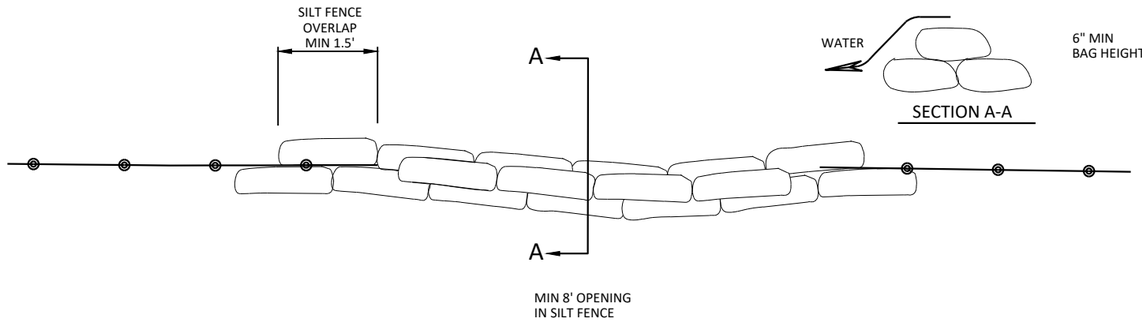


(1) LIMITS OF FERTILIZER TYPE B & SEEDING MIXTURE NO. 20 (AS DIRECTED BY ENGINEER)

(2) LIMITS OF SALVAGED TOPSOIL & MULCH/EROSION MAT (SEE EROSION CONTROL PLAN FOR FURTHER INFORMATION FOR MULCH/EROSION MAT LIMITS) (AS DIRECTED BY ENGINEER)

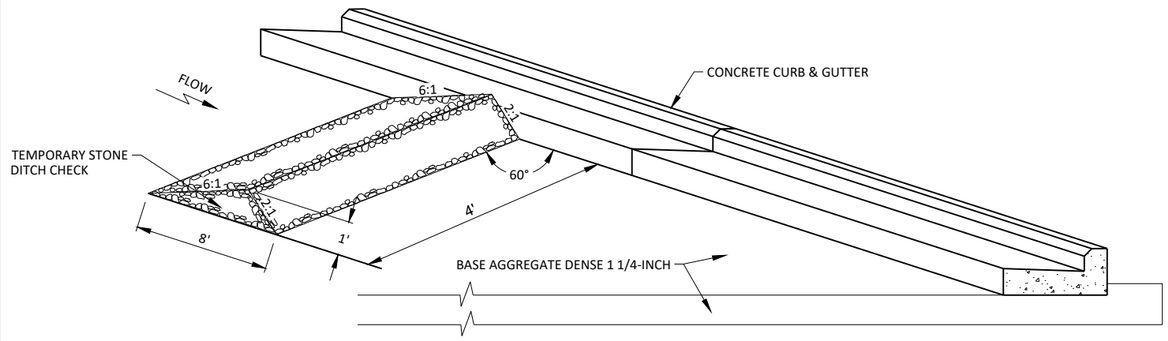
TYPICAL CULVERT REPLACEMENT DETAIL

STA. 12'E'+66
STA. 13'E'+30



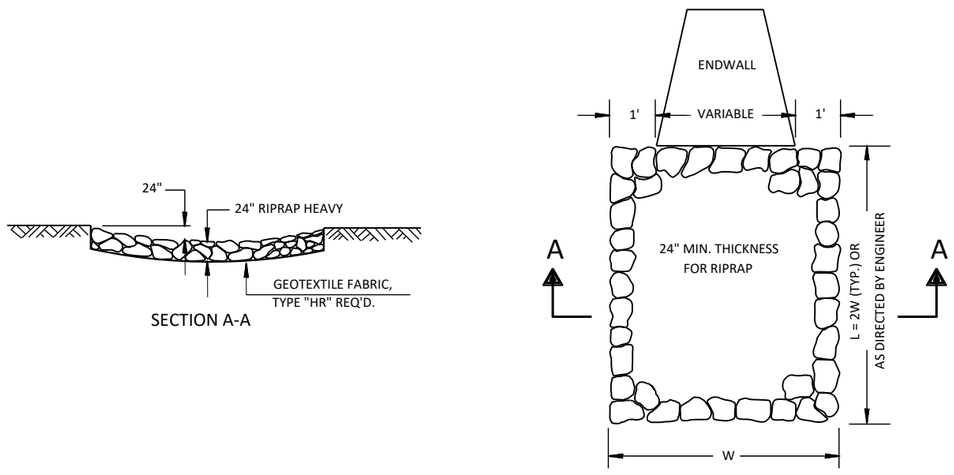
ROCK BAGS USED FOR SILT FENCE RELIEF

NOTE: SEE MISCELLANEOUS QUANTITIES SHEET FOR APPROXIMATE LOCATIONS.
EXACT LOCATION AND NUMBER OF ROCK BAGS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



TEMPORARY STONE DITCH CHECKS

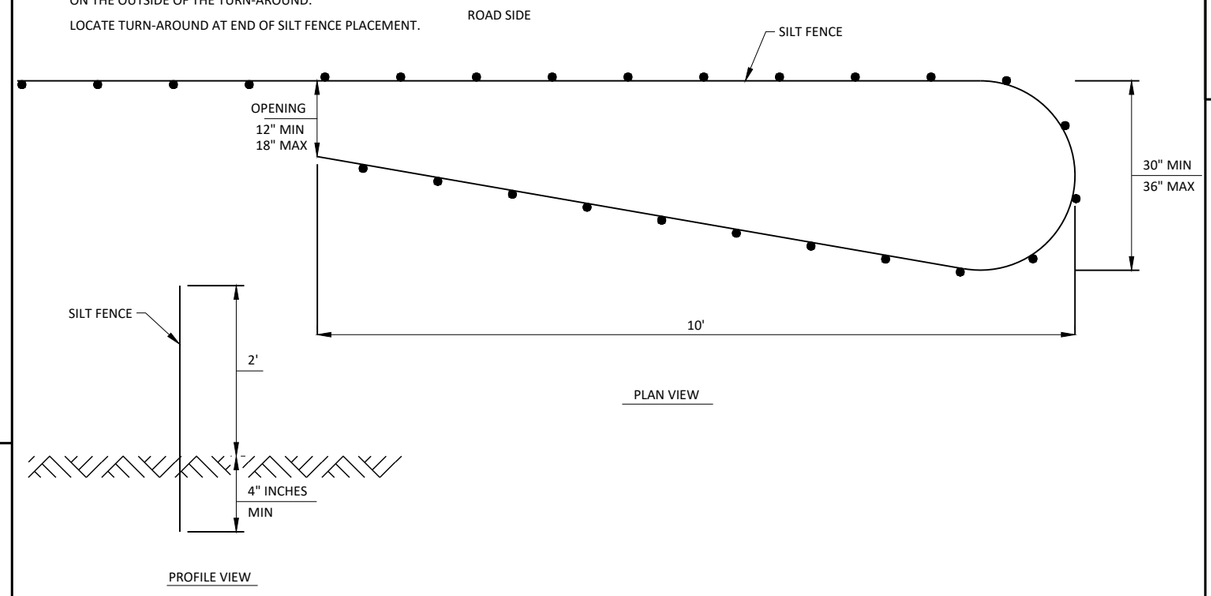
(SEE MISCELLANEOUS QUANTITIES SHEET FOR LOCATION)



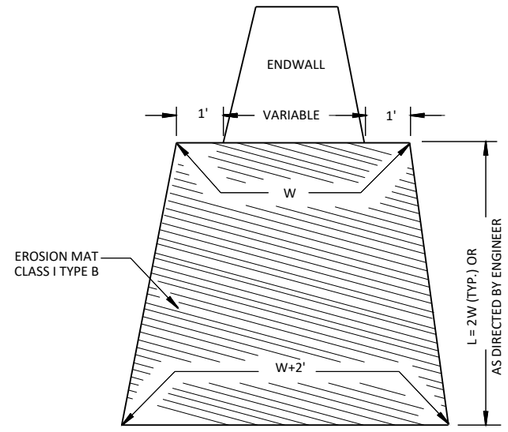
RIPRAP HEAVY TREATMENT AT CULVERTS

NOTE: PLACE SILT FENCE POSTS FOR THE TURN-AROUND ON THE OUTSIDE OF THE TURN-AROUND.

LOCATE TURN-AROUND AT END OF SILT FENCE PLACEMENT.



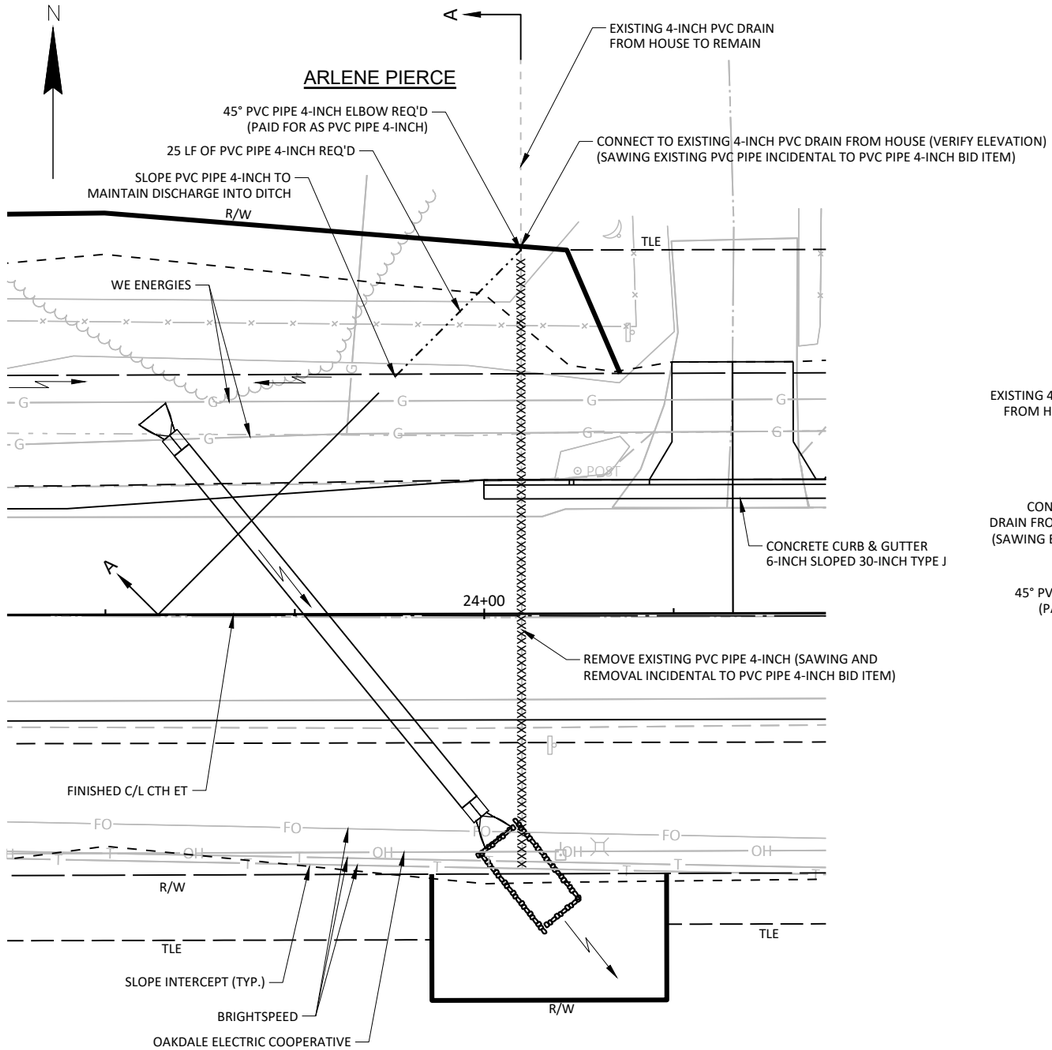
SILT FENCE TURN-AROUND DETAIL



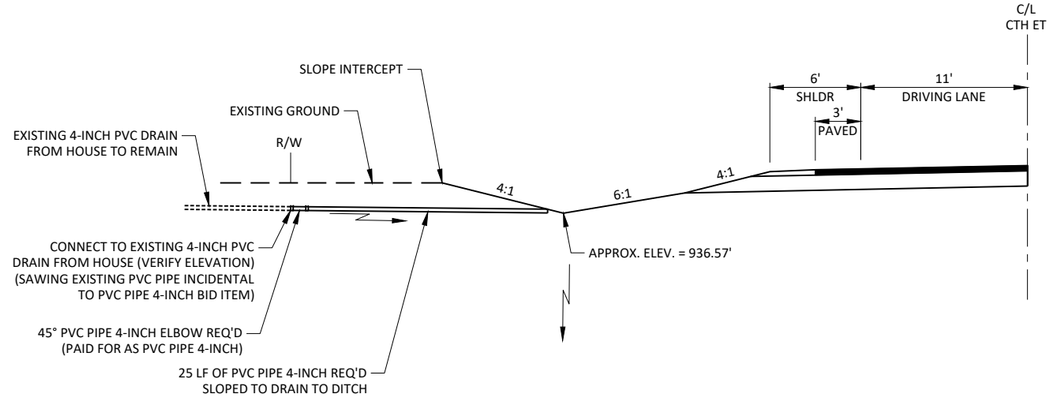
EROSION MAT CLASS I TYPE B TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN
SHEET FOR LOCATION AND DIMENSIONS

2



PLAN VIEW



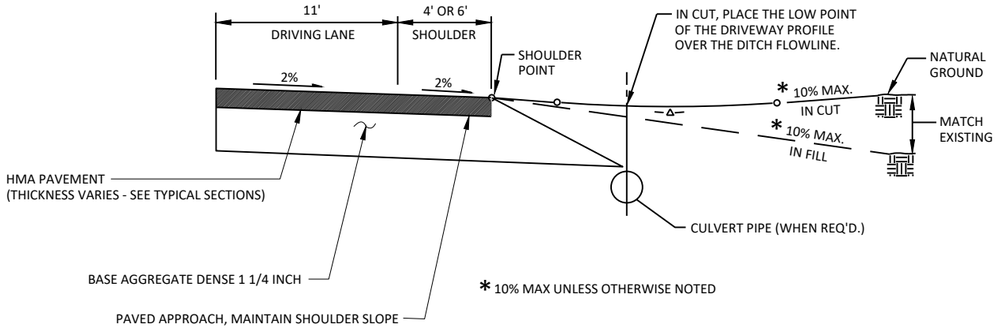
SECTION A-A

NOTE: SECTION A-A IS ALONG THE PVC PIPE 4-INCH

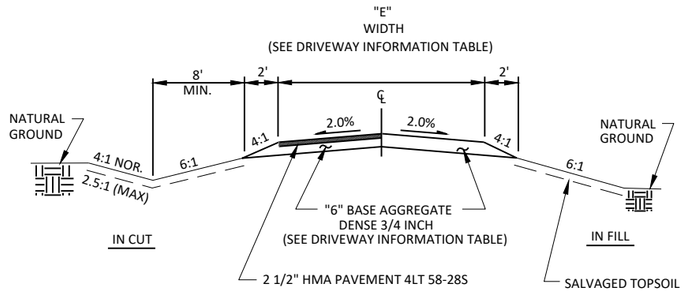
DETAIL OF PVC PIPE 4-INCH

STA. 24+05, LT.

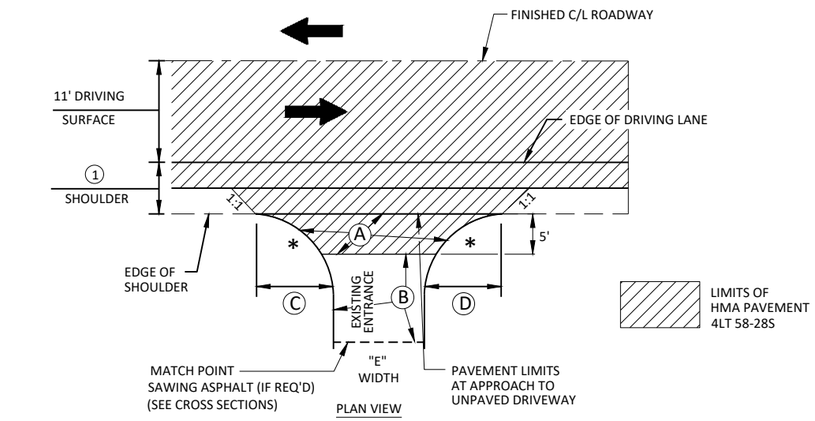
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS	SHEET 15	E



TYPICAL RURAL ENTRANCE PROFILES



TYPICAL CROSS-SECTION FOR RURAL ENTRANCE



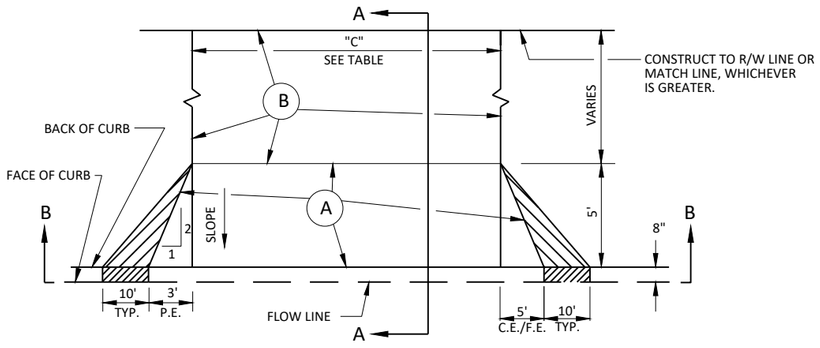
(SEE DRIVEWAY INFORMATION TABLE)

RURAL ENTRANCE DETAIL

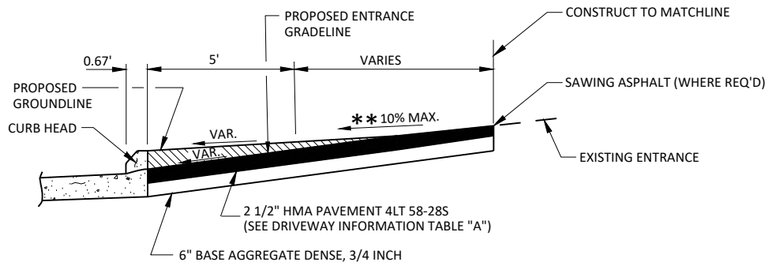
ROADWAY	①
CTH ET (STA. 13+89.89 - STA. 63+50)	6' (3' PAVED)
CTH ET (STA. 63+50 - STA. 191+63.10)	4' (3' PAVED)

RURAL DRIVEWAY INFORMATION TABLE

ENTRANCE TYPE	STATION	TYPE	EXISTING PAVEMENT STRUCTURE	PROPOSED PAVEMENT STRUCTURE A	PROPOSED PAVEMENT STRUCTURE B	RADIUS C	RADIUS D	"E" WIDTH
RURAL	13+96, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	16'
RURAL	14+38, RT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'	10'	12'
RURAL	15+28, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	18'
RURAL	16+47, LT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'	10'	15'
RURAL	17+15, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	16'
RURAL	19+24, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	24'
RURAL	19+32, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	16'
RURAL	21+28, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	14'
RURAL	22+23, RT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'	10'	20'
RURAL	26+25, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	12'
RURAL	26+68, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	12'
RURAL	26+82, LT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	12'
RURAL	29+08, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	14'
RURAL	32+84, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	12'
RURAL	33+02, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	16'
RURAL	33+56, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	20'	14'
RURAL	38+02, LT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	20'	20'	12'
RURAL	39+40, LT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'	10'	14'
RURAL	42+75, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	16'
RURAL	46+48, LT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	20'
RURAL	55+36, LT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'	10'	10'
RURAL	55+67, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	14'
RURAL	61+03, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	10'
RURAL	68+31, LT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	10'
RURAL	79+65, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	16'
RURAL	80+11, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	12'
RURAL	81+38, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	16'
RURAL	82+40, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	14'
RURAL	82+44, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	20'
RURAL	86+14, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	12'
RURAL	93+50, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	16'
RURAL	97+10, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	18'
RURAL	108+75, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	16'
RURAL	114+50, RT.	PE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'	10'	10'
RURAL	120+00, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	16'
RURAL	122+72, LT.	FE	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	20'	20'	10'
RURAL	125+53, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	14'
RURAL	132+26, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	12'
RURAL	146+00, LT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	20'
RURAL	146+00, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	20'
RURAL	149+47, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	25'	25'	12'
RURAL	149+83, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	14'
RURAL	151+63, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	10'
RURAL	152+13, LT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	14'
RURAL	164+77, RT.	PE	PULVERIZED ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	SALVAGED EXISTING PULVERIZED ASPHALT OVER 6" B.A.D.	25'	20'	12'
RURAL	165+23, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	12'
RURAL	168+53, LT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	14'
RURAL	172+55, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	10'
RURAL	178+12, RT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10'	10'	12'
RURAL	183+61, RT.	FE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	10'
RURAL	183+72, LT.	PE	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20'	20'	16'

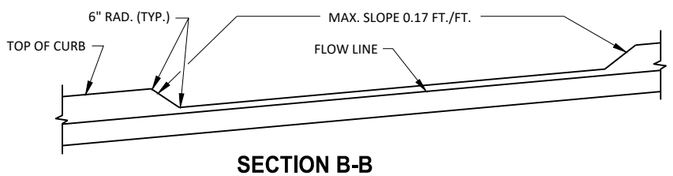


URBAN DRIVEWAY DETAIL



** 10% MAX UNLESS OTHERWISE NOTED

SECTION A-A



SECTION B-B

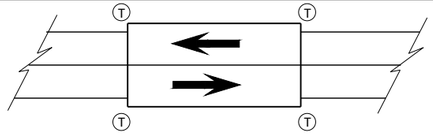
	EXISTING	PROPOSED
(A)	CRUSHED AGGREGATE BASE COURSE	2 1/2" PROPOSED HMA PAVEMENT 4LT 58-28S OVER 6" BASE AGGREGATE DENSE 3/4-INCH
	ASPHALT	2 1/2" PROPOSED HMA PAVEMENT 4LT 58-28S OVER 6" BASE AGGREGATE DENSE 3/4-INCH

URBAN DRIVEWAY INFORMATION TABLE

ENTRANCE TYPE	STATION	TYPE	EXISTING PAVEMENT STRUCTURE	PROPOSED PAVEMENT STRUCTURE A	PROPOSED PAVEMENT STRUCTURE B	"C" WIDTH
URBAN	24+33, LT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	16'
URBAN	24+55, LT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	12'
URBAN	25+67, LT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	10'
URBAN	40+64, LT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	22'
URBAN*	43+62, LT.	F.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	20'
URBAN	84+59, LT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	22'

*NON-STANDARD DRIVEWAY LAYOUT. SEE PAVING DETAILS FOR MORE INFORMATION.

2



TWO WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

GENERAL NOTES

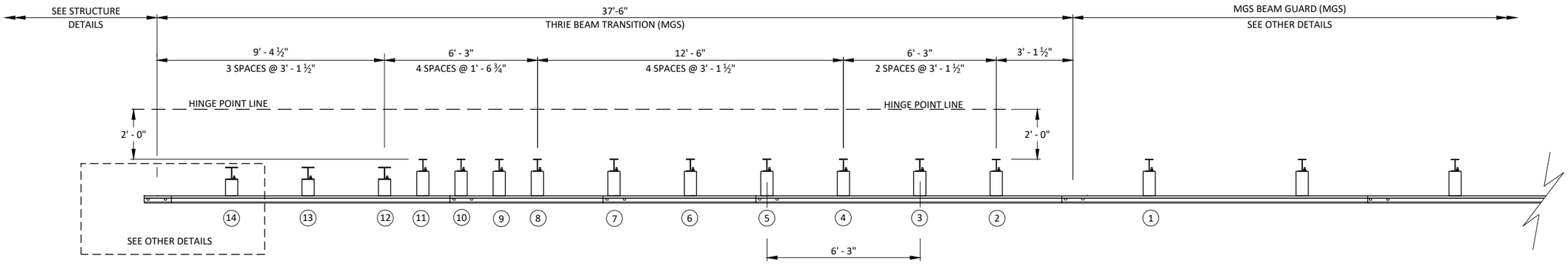
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2-1/2", AND 12" DIAMETER AROUND POST. SEE STANDARD DETAIL DRAWING "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL" FOR MORE DETAILS.

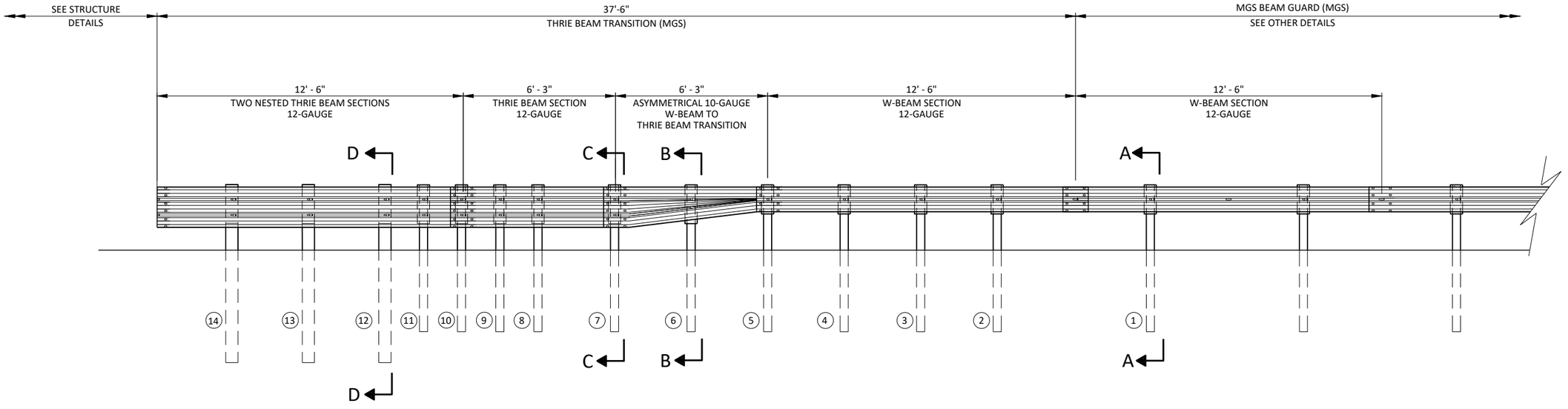
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING "MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL" FOR MORE INFORMATION.

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE



PLAN VIEW



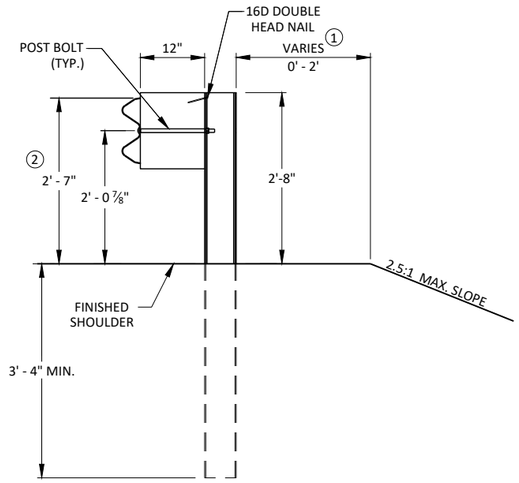
ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS - THRIE BEAM TRANSITION	SHEET 18	E

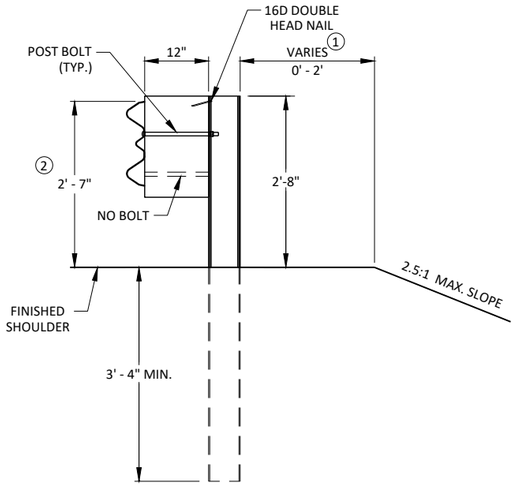
GENERAL NOTES

1. SEE BEAMGUARD LAYOUT DETAILS FOR MORE INFORMATION
2. TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



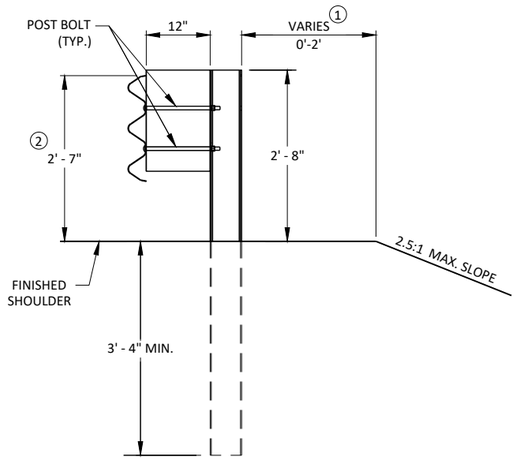
SECTION A-A

POSTS 1-5



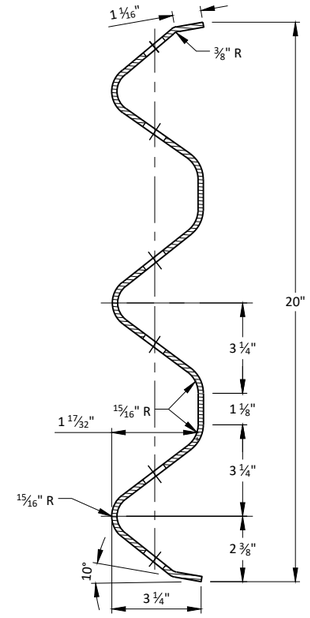
SECTION B-B

POST 6



SECTION C-C

POST 7-11



SECTION THRU THRIE BEAM RAIL ELEMENT

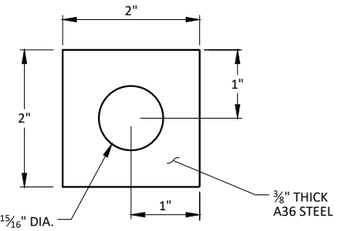
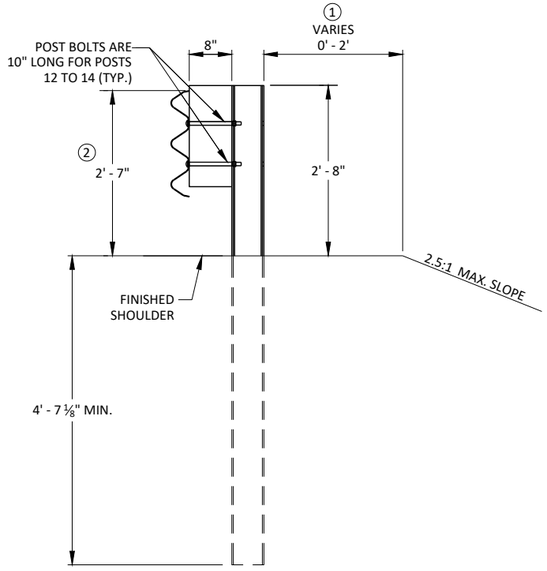
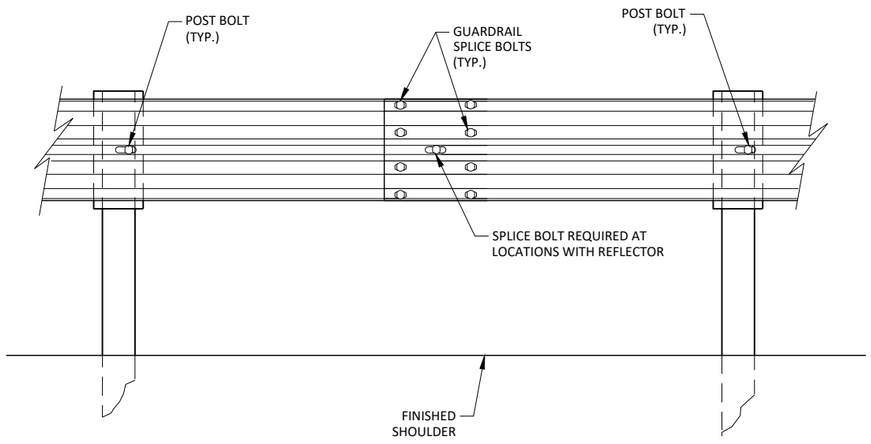


PLATE WASHER DETAIL

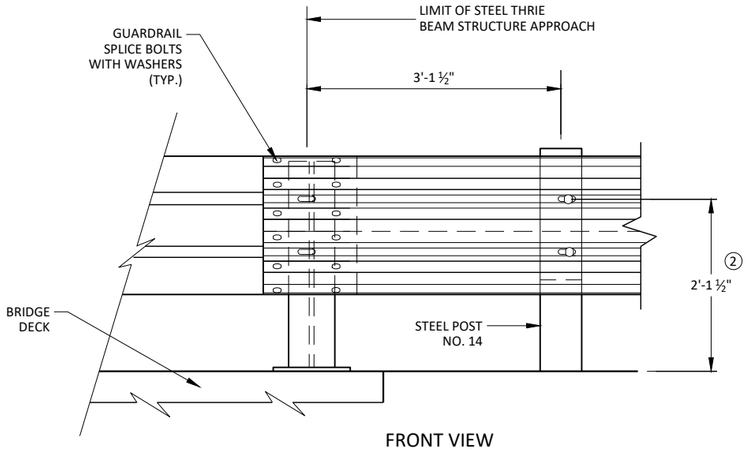


SECTION D-D

POSTS 12-14

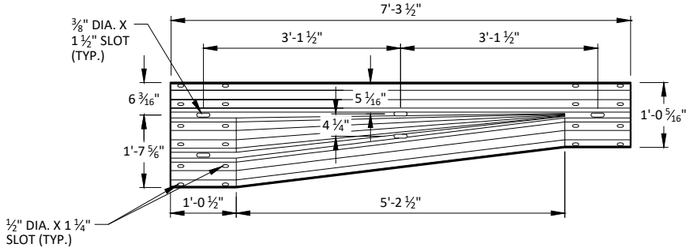


SPLICE DETAIL

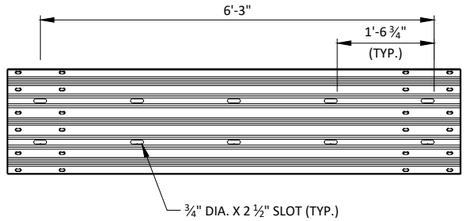


FRONT VIEW

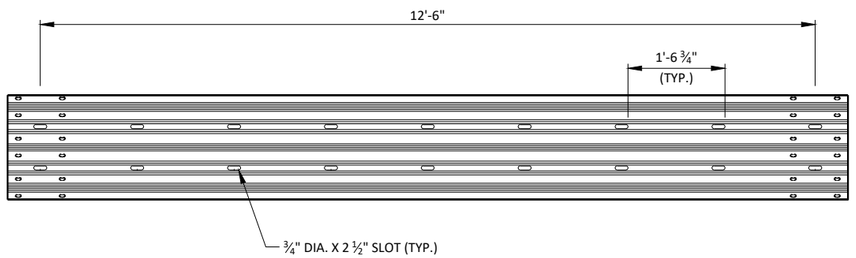
THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



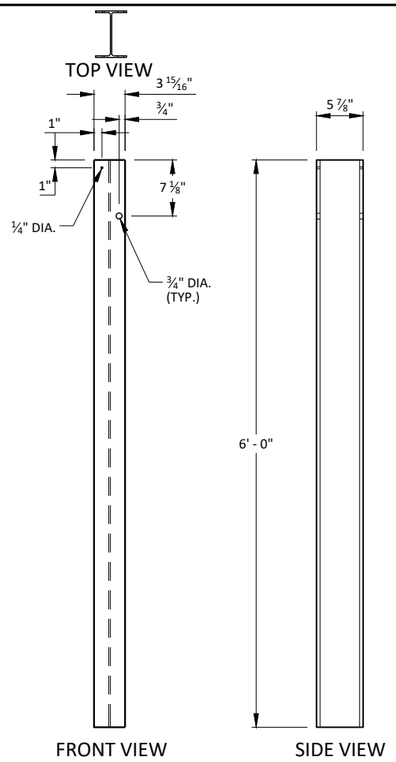
W-BEAM TO THRIE BEAM TRANSITION SECTION



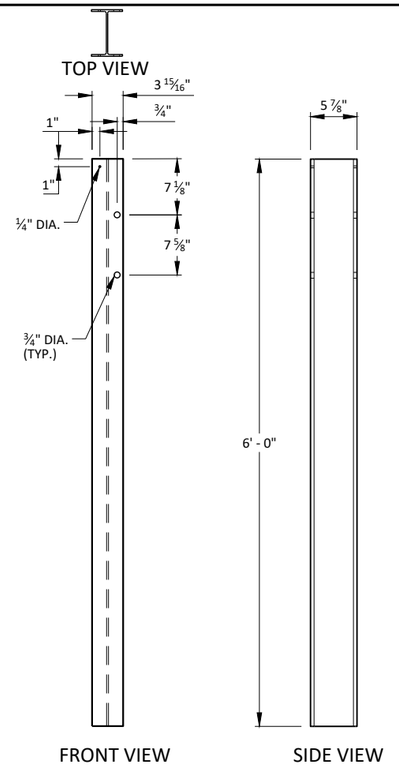
6' - 3" THRIE BEAM SECTION



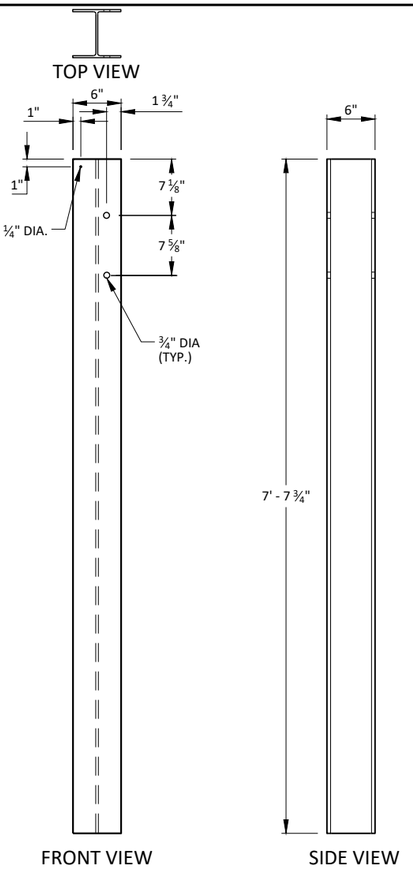
12' - 6" THRIE BEAM SECTION



STEEL POSTS 1-5

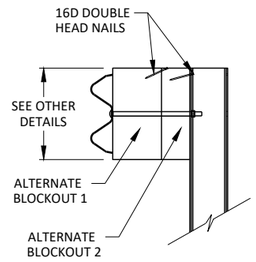


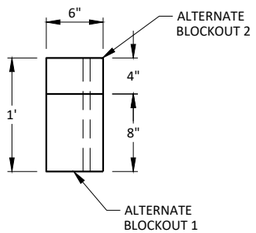
STEEL POSTS 6-11



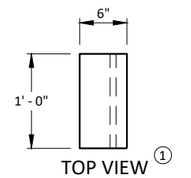
STEEL POSTS 12-14

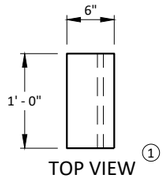
① WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

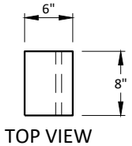


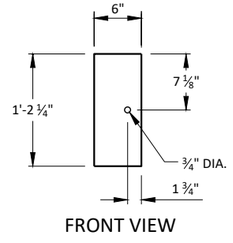


ALTERNATE WOOD BLOCKOUT DETAIL

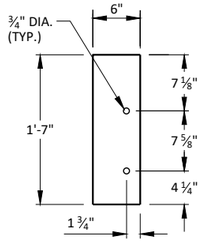




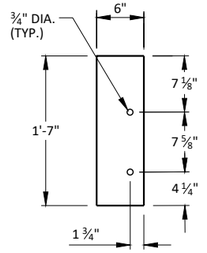




BLOCKOUT POSTS 1-5



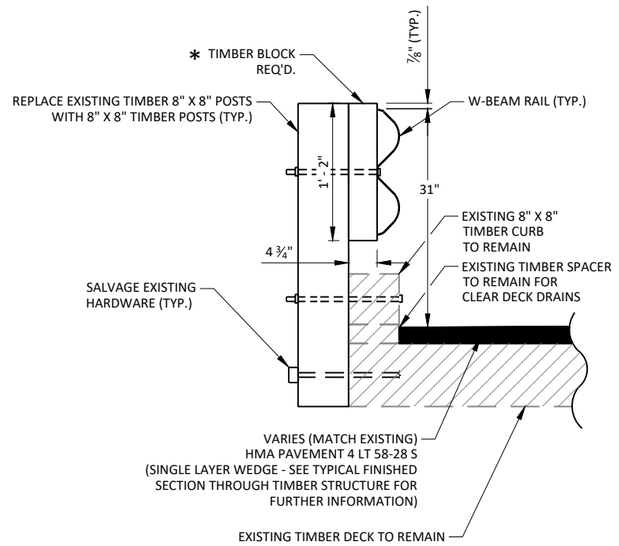
BLOCKOUT POSTS 6-11



BLOCKOUT POSTS 12-14

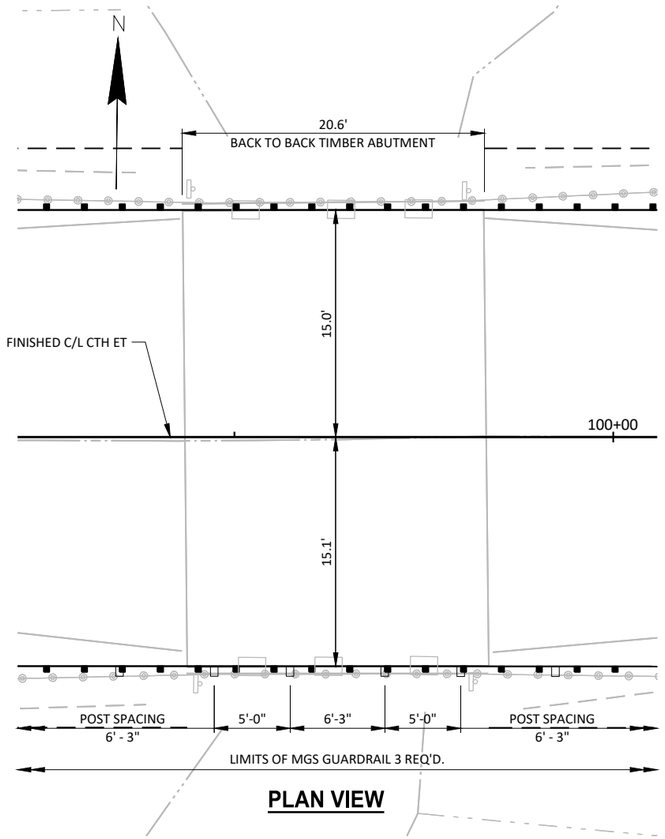
STEEL POST SIZES

POST NUMBER	SECTION TYPE	LENGTH
①	W6x9	72"
②	W6x9	72"
③	W6x9	72"
④	W6x9	72"
⑤	W6x9	72"
⑥	W6x9	72"
⑦	W6x9	72"
⑧	W6x9	72"
⑨	W6x9	72"
⑩	W6x9	72"
⑪	W6x9	72"
⑫	W6x15	87 ⅛"
⑬	W6x15	87 ⅛"
⑭	W6x15	87 ⅛"

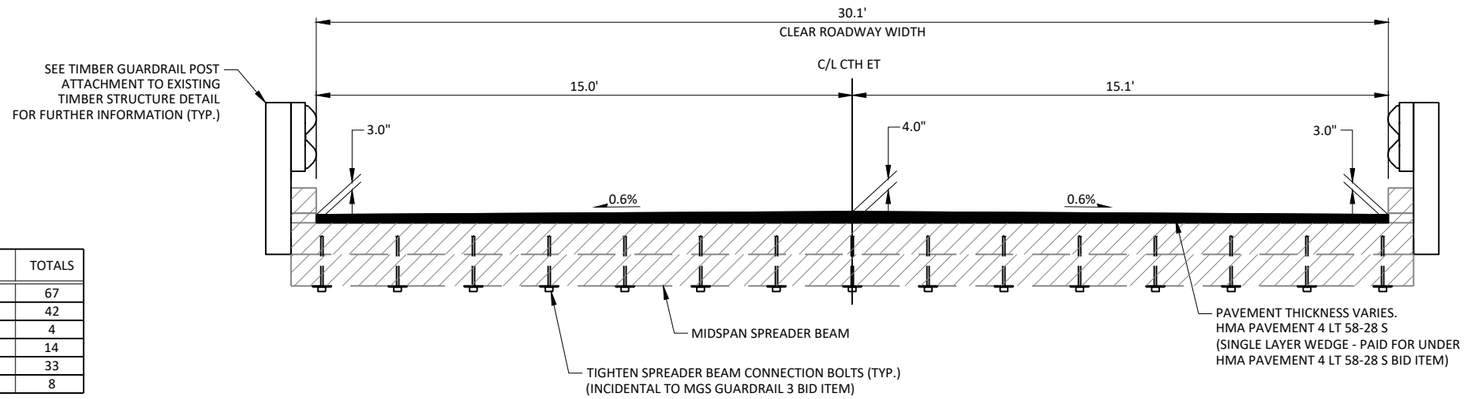


TIMBER GUARDRAIL POST ATTACHMENT TO EXISTING TIMBER STRUCTURE

* USE 8" X 4 ¾" X 1'-2" TIMBER BLOCK TO ALIGN FACE OF W-BEAM RAIL WITH EXISTING TIMBER CURB TO REMAIN. ALIGN FACE OF W-BEAM RAIL WITH EXISTING TIMBER CURB TO REMAIN.



PLAN VIEW



TYPICAL CROSS-SECTION THROUGH TIMBER STRUCTURE

(STA. 99+71.74 - STA. 99+91.61)

FOR INFORMATION ONLY - TOTAL ESTIMATED QUANTITIES

	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
	204.0110	REMOVING ASPHALTIC SURFACE	SY	67
	204.0165	REMOVING GUARDRAIL	LF	42
	455.0605	TACK COAT	GAL	4
	460.5224	HMA PAVEMENT 4 LT 58-28 S	TON	14
	614.2300	MGS GUARDRAIL 3	LF	33
**	---	8" X 8" TIMBER POSTS	EACH	8

NOTES:
TOTAL ESTIMATED QUANTITIES SHOWN FOR INFORMATIONAL PURPOSES ONLY. SEE MISCELLANEOUS QUANTITIES FOR MORE INFORMATION.

** 8" X 8" TIMBER POSTS ARE INCIDENTAL TO THE BID ITEM "MGS GUARDRAIL 3".

DESIGN DATA

LIVE LOAD:

DESIGN LOADING _____ HS-20
INVENTORY RATING _____ HS-20
OPERATING RATING _____ HS-33
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) _____ 130 KIPS
(RATINGS PROVIDED BY BUREAU OF STRUCTURES ON 10-25-2023)

MATERIAL PROPERTIES:

TIMBER POSTS MAY BE SAWN LUMBER OR GLUED - LAMINATED (GLULAM). WHEN SAWN LUMBER IS USED, MATERIAL SHALL BE VISUALLY GRADED NO. 1 SOUTHERN PINE OR VISUALLY GRADED NO. 1 DOUGLAS FIR-LARCH. GLULAM AND OTHER SPECIES AND GRADES OF SAWN LUMBER MAY BE USED, PROVIDED THE MINIMUM TABULATED VALUES ARE NO LESS THAN THE FOLLOWING:

F_b = 1,350 LB/IN^2 E = 1,500,000 LB/IN^2

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON FIELD SURVEY AND MEASUREMENTS OF THE EXISTING STRUCTURE.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS SHALL BE INCIDENTAL TO THE BID ITEM "HMA PAVEMENT 4 LT 58-28 S."

THE PLAN QUANTITY FOR THE BID ITEM "HMA PAVEMENT 4 LT 58-28 S" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 3" PLACED ABOVE THE DECK SURFACE. EXPECTED AVERAGE OVERLAY THICKESS IS 3 1/2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

2

2

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- DIRECTION OF TRAFFIC

HABELMAN BROS CO

DARLENE FOWLER
CHARLEY WOOD JR

THOMAS POWELL
ELISA POWELL

FORMICA RD

CTH ET

BRIGHTSPEED (TYP.)

WE ENERGIES (TYP.)

OAKDALE ELECTRIC COOP (TYP.)

SLOPE INTERCEPT (TYP.)

FINISHED C/L CTH ET

EXISTING C/L 'B'-LINE (FORMICA RD)

FINISHED C/L 'B'-LINE (FORMICA RD)

STA. 62+89.89 (CTH ET) =
STA. 10'B'+00.00 (FORMICA RD)
(TYPE C INTERSECTION REQ'D)

STA. 62+43.65 57.0' LT (CTH ET) =
STA. 10'B'+52.66 55.0' LT ('B'-LINE (FORMICA RD))
Y = 401,193.82
X = 721,182.13

STA. 63+53.92 77.0' LT (CTH ET) =
STA. 10'B'+69.52 75.0' RT ('B'-LINE (FORMICA RD))
Y = 401,150.13
X = 721,305.72

REMOVING SMALL PIPE CULVERTS
STA. 10'B'+48
REMOVE 18" CMCP

STA. 10'B'+35
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 1° LHF

STA. 10'B'+39
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 1° LHF

CURVE 6
PI STA. = 11'B'+66.94
Y = 401,270.61
X = 721,283.08
R = 3130.00
D = 1°49'50"
DELTA = 4°11'52"
L = 229.32
T = 114.71
C = 229.27
PC STA. = 10'B'+52.23
Y = 401,168.44
X = 721,230.92
PT STA. = 12'B'+81.55
Y = 401,376.32
X = 721,327.62
S.E. = N.C.
R.O. = N/A
TRANS. = N/A

BEGIN CONSTRUCTION
STA. 10'B'+17.00
Y = 401,137.06
X = 721,214.90

END CONSTRUCTION
STA. 12'B'+70.00
Y = 401,365.60
X = 721,323.10

N27°02'42"E
N22°50'50"E
90°00'
PC: 10'B'+52.23
PT: 63+33.08
11'B'+00
12'B'+00
CURVE 6
R=40'
R=60'
R/W
10:1
3' TYP.
4' SHLDR (1' PAVED)
6' SHLDR (3' PAVED)
11' DRIVING LANE
14'
17'
30'
45'
62
63
15'
12'

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET 22	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_INTERSECTION DETAILS.DWG
LAYOUT NAME - 01
PLOT DATE : 10/6/2023 8:13 AM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : 1 IN:30 FT

2

LOIS WHITE TRUST

HABELMAN BROS CO

P.L.

TLE

R/W

4' SHLDR (3' PAVED)

11' DRIVING LANE

11' DRIVING LANE

4' SHLDR (3' PAVED)

73

PC: 73+19.76

14'

30'

16'

FINISHED C/L CTH ET

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

DIRECTION OF TRAFFIC

THOMAS POWELL
ELISA POWELL

END CONSTRUCTION
STA. 11'C'+72.71
Y = 400,466.42
X = 722,135.10

STA. 73+52.62 71.0' RT (CTH ET) =
STA. 10'C'+97.65 70.0' LT ('C'-LINE (FOREST AVE))
Y = 400,447.31
X = 722,040.28

BEGIN CONSTRUCTION
STA. 10'C'+00.00
Y = 400,336.59
X = 722,023.79

FINISHED C/L 'C'-LINE (FOREST AVE)

R/W

R=55'

3' TYP.

FOREST AVE

PC: 10'C'+22.04

3' SHLDR (0' PAVED)

XXXXXXXXXXXX

N51°40'50"E

10' LANE

10'

10' LANE

10'

10:1

15'

11'C'+00

CURVE 7

PT: 11'C'+75.91

74

99°39'28"

N25°45'01"E

STA. 74+25.41 (CTH ET) =
STA. 11'C'+88.94 ('C'-LINE)
(TYPE C INTERSECTION REQ'D)

OAKDALE ELECTRIC COOP (TYP.)

HABELMAN BROS CO

P.L.

3' SHLDR (0' PAVED)

R/W

SLOPE INTERCEPT (TYP.)

EXISTING C/L 'C'-LINE (FOREST AVE)

BRIGHTSPEED (TYP.)

R=50'

16'

20'

14'

75

PT: 75+19.22

4' SHLDR (3' PAVED)

11' DRIVING LANE

11' DRIVING LANE

CTH ET

4' SHLDR (3' PAVED)

76

TLE

STA. 74+69.65 66.0' RT (CTH ET) =
STA. 11'C'+42.83 65.0' RT ('C'-LINE (FOREST AVE))
Y = 400,406.45
X = 722,176.23

CURVE 7
PI STA. = 11'C'+00.32
Y = 400,398.79
X = 722,102.50
R = 340.00
D = 16°51'06"
DELTA = 25°55'48"
L = 153.87
T = 78.28
C = 152.56
PC STA. = 10'C'+22.04
Y = 400,350.25
X = 722,041.08
PT STA. = 11'C'+75.91
Y = 400,469.29
X = 722,136.50
S.E. = R.C.
R.O. = SEE S.E. TABLE
TRANS. = SEE S.E. TABLE

STA. 11'C'+54
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 12° RHF

LOIS WHITE TRUST

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET 23	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_INTERSECTION DETAILS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/17/2023 4:32 PM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : 1 IN:30 FT

2

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- DIRECTION OF TRAFFIC

SCOTT SPARKS
TAMMY SPARKS

HABELMAN BROS CO

N

STA. 124+84.28 76.0' RT (CTH ET) =
STA. 12'D'+29.82 75.0' LT ('D'-LINE (FORTUNE RD))
Y = 400,327.80
X = 727,192.40

REMOVING SMALL PIPE CULVERTS
STA. 12'D'+66
REMOVE 20" CMCP

STA. 12'D'+69
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 4° LHF

4' SHLDR (3' PAVED)
11' DRIVING LANE
11' DRIVING LANE
4' SHLDR (3' PAVED)

CTH ET

14'
30'
16'

R/W
R=60'
FINISHED C/L 'D'-LINE (FORTUNE RD)
BRIGHTSPEED (TYP.)
FINISHED C/L CTH ET
WE ENERGIES (TYP.)
P.L.

3' SHLDR (0' PAVED)
3' TYP.
10:1
10' LANE
10' LANE
10' LANE
10' LANE
15'
15'
12'D'+00
N00°59'34"W
13'D'+00
85°46'14"
FORTUNE RD
3' SHLDR (0' PAVED)

R/W
R=40'
SLOPE INTERCEPT (TYP.)
OAKDALE ELECTRIC COOP (TYP.)
S86°45'48"E
126
125
124

STA. 125+53.87 (CTH ET) =
STA. 13'D'+00.48 ('D'-LINE)
(TYPE C INTERSECTION REQ'D)

BEGIN CONSTRUCTION
STA. 11'D'+60.00
Y = 400,259.29
X = 727,268.60

END CONSTRUCTION
STA. 12'D'+84.44
Y = 400,383.71
X = 727,266.44

STA. 126+13.16 66.0' RT (CTH ET) =
STA. 12'D'+40.26 55.0' RT ('D'-LINE (FORTUNE RD))
Y = 400,340.49
X = 727,322.20

16'
20'
14'

4' SHLDR (3' PAVED)
11' DRIVING LANE
11' DRIVING LANE
4' SHLDR (3' PAVED)

DEREK MARTIN

DOUGLAS MAAS
MARY MAAS

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET 24	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_INTERSECTION DETAILS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/6/2023 8:13 AM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : 1 IN:30 FT

2

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- DIRECTION OF TRAFFIC
- LIMITS OF PAVEMENT REPLACEMENT (SEE TYPICAL FINISHED SECTION FOR FURTHER INFORMATION)

HABELMAN BROS CO

WAYNE GARDNER CRANBERRY LLC

N

END CONSTRUCTION
STA. 14'E'+50.00
Y = 400,223.20
X = 733,866.13

REMOVING SMALL PIPE CULVERTS
STA. 13'E'+26
REMOVE 24" CMCP

STA. 13'E'+30
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE
DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 13° LHF

3' SHLDR (0' PAVED) | 12' DRIVING LANE | 12' DRIVING LANE | 3' SHLDR (0' PAVED)

R/W

CTH N

75'

14'E'+00

6'

EXISTING C/L CTH N

STA. 190+97.23 70.0' LT (CTH ET) =
STA. 13'E'+74.04 61.0' LT ('E'-LINE (CTH N))
Y = 400,146.88
X = 733,805.58

FINISHED R/L 'E'-LINE (CTH N)

WE ENERGIES (TYP.)

OAKDALE ELECTRIC COOP (TYP.)

FINISHED C/L CTH ET

R=55'

3' TYP.

STA. 13'E'+45
0.0' RT.

STA. 13'E'+45
23.0' RT.

MATCH EXISTING RADII (TYP.)

END CONSTRUCTION
STA. 192+25.00
Y = 400,069.01
X = 733,928.71

N00°20'17"W

12'

POST

PI: 13'E'+27.66

STA. 192+25
10.2' LT.

93°45'48"

4' SHLDR (3' PAVED)

10:1

189 | 190 | S86°24'20"E | 191 | 192

11' TRAVEL LANE

11' TRAVEL LANE

14' | 15'

13'E'+00

CTH ET

FOUNTAIN AVE

4' SHLDR (3' PAVED)

N00°10'08"W

STA. 192+25
11.8' RT.

R/W

STA. 12'E'+99.69 ('E'-LINE) =
STA. 191+63.10 (CTH ET)
(TYPE C INTERSECTION REQ'D)

R=50'

WE ENERGIES (TYP.)

BRIGHTSPEED (TYP.)

STA. 12'E'+53
23.3' RT.

STA. 12'E'+53
0.0' RT.

6'

SLOPE INTERCEPT (TYP.)

REMOVING SMALL PIPE CULVERTS
STA. 12'E'+72
REMOVE 24" CMCP

STA. 12'E'+66
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE
DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 4° RHF

STA. 191+11.25 65.0' RT (CTH ET) =
STA. 12'E'+38.23 56.0' LT ('E'-LINE (CTH N))
Y = 400,011.27
X = 733,811.11

50'

12'E'+00

R/W

DEAN A MEYER

MICHAEL DAMROW
KALLI DAMROW

DARREL MURPHY

P.L.

BEGIN CONSTRUCTION
STA. 11'E'+88.00
Y = 399,961.20
X = 733,867.26

3' SHLDR (0' PAVED) | 12' DRIVING LANE | 12' DRIVING LANE | 3' SHLDR (0' PAVED)

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET 25	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_INTERSECTION DETAILS.DWG
LAYOUT NAME - 04
PLOT DATE : 10/20/2023 1:13 PM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : 1 IN:30 FT

2

2

EXISTING SATELLITE DISH TO REMAIN

STA. 24+33, LT.
CONSTRUCT P.E. (ASPHALT)

STA. 24+54, LT.
CONSTRUCT P.E. (B.A.D.)

EXISTING RETAINING WALLS AND TIMBER STEPS TO REMAIN

STA. 25+67, LT.
CONSTRUCT P.E. (ASPHALT)

EXISTING 4" PVC DISCHARGE PIPE (SEE CONSTRUCTION DETAILS)

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J

EXISTING SATELLITE DISH AND FLAG POLE TO REMAIN

SLOPE INTERCEPT (TYP.)

WE ENERGIES (TYP.)

EXISTING RETAINING WALL BLOCKS AND DECIDUOUS TREES TO REMAIN

ASPHALTIC FLUME REQ'D

STA. 23+45
14.00' LT.

STA. 24+00
17.67' LT.

HOUSE

STA. 26+25
17.67' LT.

STA. 26+80
14.00' LT.

R/W

TLE

6' SHLDR (3' PAVED)

11' TRAVEL LANE

15:1

14'

15.17'

939.46

939.21

938.96

938.71

2.1%

938.46

3%

938.33

22

23

24

25

26

27

28

CTH ET

XXXXXXXXX

FINISHED C/L CTH ET

BRIGHTSPEED (TYP.)

OAKDALE ELECTRIC COOP (TYP.)

LEGEND

XXXXXXXX SAWING ASPHALT

DIRECTION OF TRAVEL

DIRECTION OF FLOW

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

STA. 41+10 - STA. 41+99, LT.
REMOVING FENCE BY OTHERS

STA. 40+49 - STA. 43+77, LT.
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

STA. 43+93 - STA. 45+47, LT.
REMOVING FENCE BY OTHERS

EXISTING POOL TO REMAIN

OAKDALE ELECTRIC COOP (TYP.)

STA. 40+49, 30.63' LT.
INV. EL. = 935.18'

STA. 40+64, LT.
CONSTRUCT P.E. (ASPHALT)

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J

WE ENERGIES (TYP.)

STA. 43+77, 30.63' LT.
INV. EL. = 933.55'

STA. 44+00
17.67' LT.

COLLAPSED SEPTIC TANK TO BE REMOVED BY OTHERS

BRIGHTSPEED (TYP.)

STA. 43+62, LT.
CONSTRUCT F.E. (ASPHALT)

ASPHALTIC FLUME REQ'D

STA. 44+55
14.00' LT.

STA. 39+95
14.00' LT.

STA. 40+50
17.67' LT.

POOL

R40' TYP.

34.51'

938.01

937.76

937.52

937.27

937.02

936.77

936.52

936.25

39

40

41

42

43

44

45

CTH ET

BRIGHTSPEED (TYP.)

FINISHED C/L CTH ET

OAKDALE ELECTRIC COOP (TYP.)

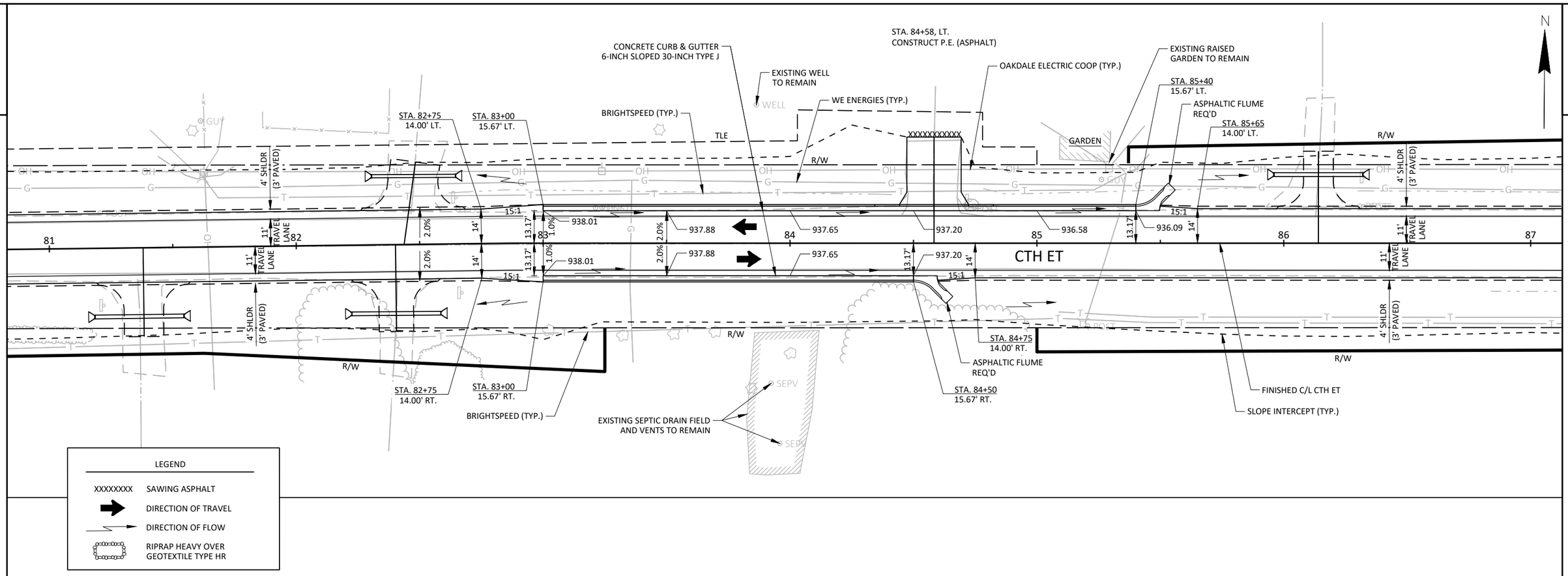
SLOPE INTERCEPT (TYP.)

308

307

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET 26	E

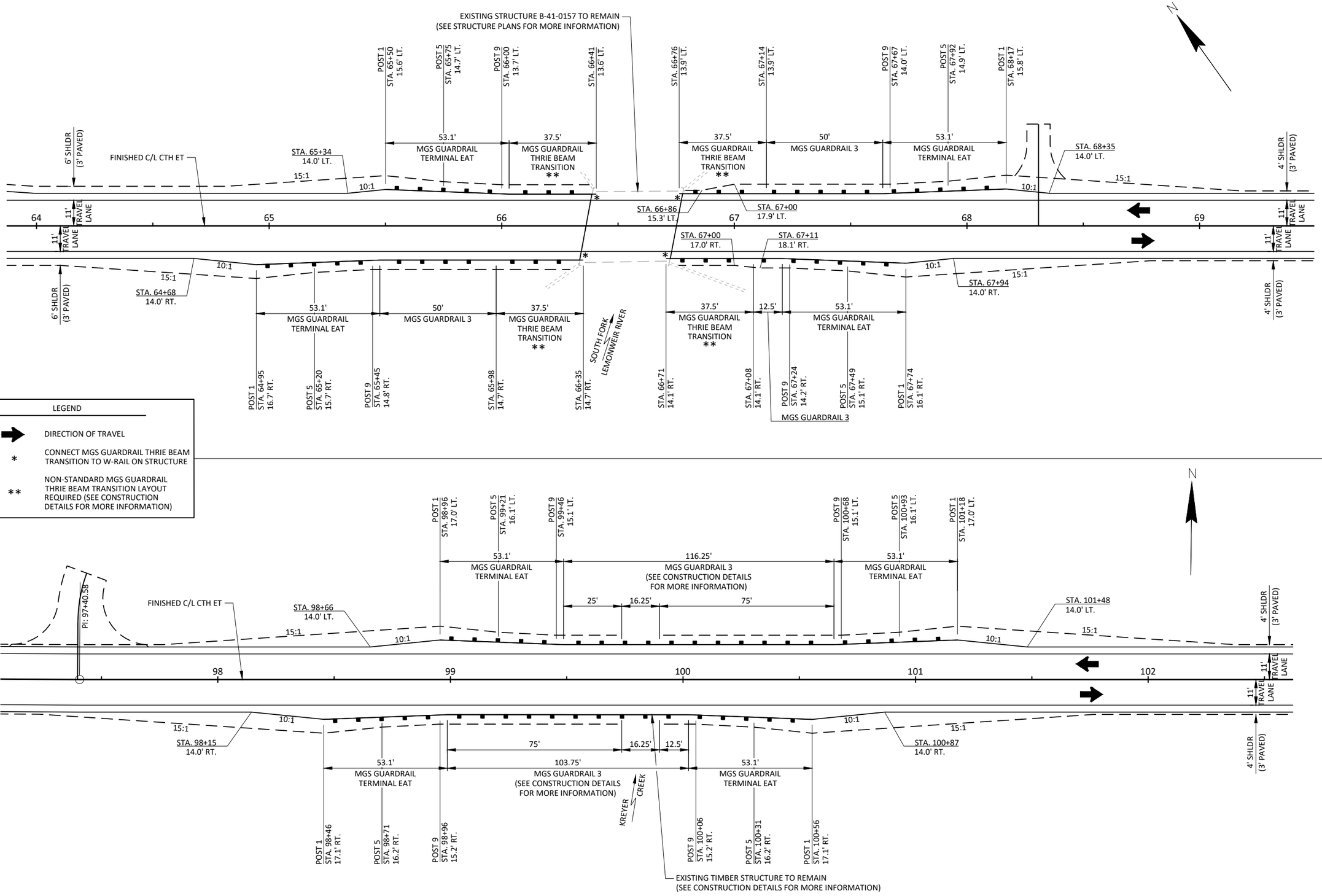
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVING DETAILS.DWG PLOT DATE : 10/20/2023 12:55:24 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : LAYOUT - 1



LEGEND

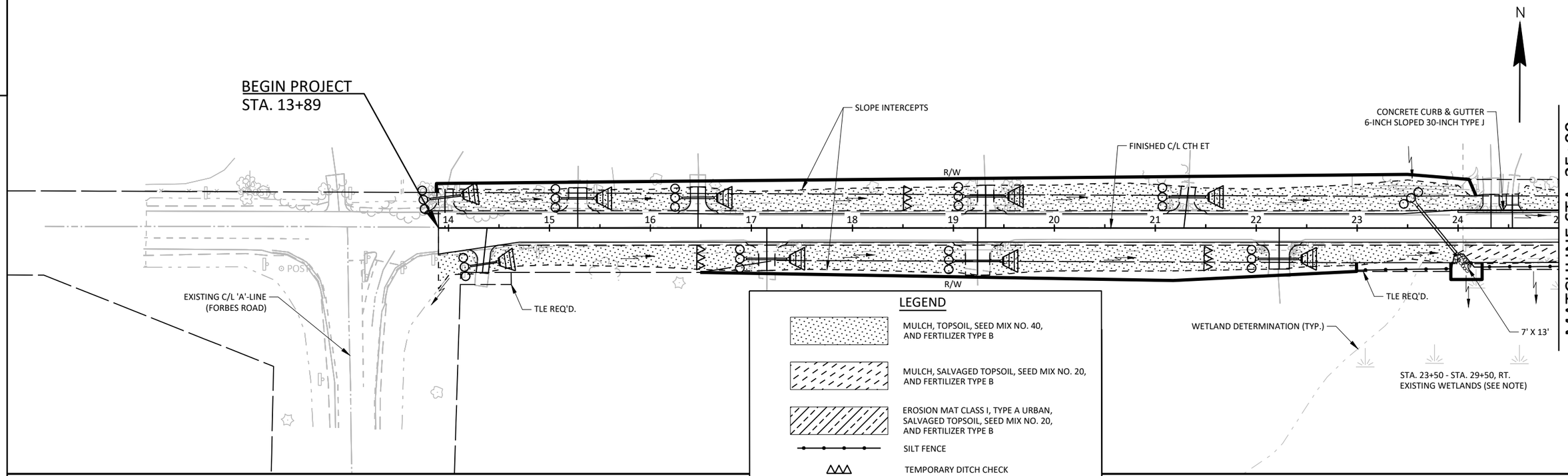
XXXXXXXX	SAWING ASPHALT
➡	DIRECTION OF TRAVEL
⟶	DIRECTION OF FLOW
	RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET 27	E



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	BEAMGUARD DETAILS	SHEET 28	E

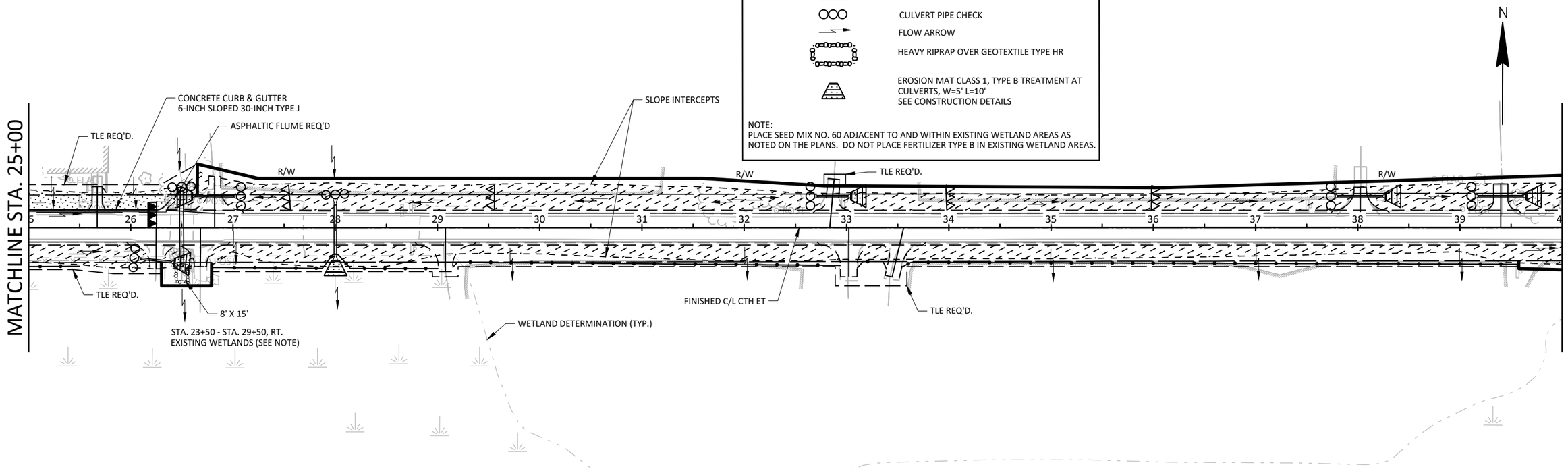
2



LEGEND

- MULCH, TOPSOIL, SEED MIX NO. 40, AND FERTILIZER TYPE B
- MULCH, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- EROSION MAT CLASS I, TYPE A URBAN, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- FLOW ARROW
- HEAVY RIPRAP OVER GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE B TREATMENT AT CULVERTS, W=5' L=10' SEE CONSTRUCTION DETAILS

NOTE:
PLACE SEED MIX NO. 60 ADJACENT TO AND WITHIN EXISTING WETLAND AREAS AS NOTED ON THE PLANS. DO NOT PLACE FERTILIZER TYPE B IN EXISTING WETLAND AREAS.



PROJECT NO: 7370-00-74	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET 29	E

2

N

MATCHLINE STA. 40+00

MATCHLINE STA. 55+00

CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J

TLE REQ'D.

6' X 12'

ASPHALTIC FLUME REQ'D

SLOPE INTERCEPTS

R/W

FINISHED C/L CTH ET

WETLAND DETERMINATION (TYP.)

STA. 51+75 - STA. 56+00, RT.
EXISTING WETLANDS (SEE NOTE)

LEGEND

- MULCH, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- EROSION MAT CLASS I, TYPE A URBAN, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- FLOW ARROW
- HEAVY RIPRAP OVER GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE B TREATMENT AT CULVERTS, W=5' L=10'
  SEE CONSTRUCTION DETAILS

NOTE:
PLACE SEED MIX NO. 60 ADJACENT TO AND WITHIN EXISTING WETLAND AREAS AS NOTED ON THE PLANS. DO NOT PLACE FERTILIZER TYPE B IN EXISTING WETLAND AREAS.

END CONSTRUCTION
STA. 12'B'+70.00

FINISHED C/L 'B'-LINE
(FORMICA ROAD)

STA. 10'B'+17 - STA. 12'B'+70, RT.
EXISTING WETLANDS (SEE NOTE)

BEGIN CONSTRUCTION
STA. 10'B'+17.00

11' X 17'

STA. 63+00 - STA. 79+50, LT.
EXISTING WETLANDS (SEE NOTE)

SILT FENCE TURN-AROUND REQ'D
(SEE CONSTRUCTION DETAILS)

EXISTING STRUCTURE B-41-157
TO REMAIN

SILT FENCE TURN-AROUND REQ'D
(SEE CONSTRUCTION DETAILS)

TLE REQ'D.

SLOPE INTERCEPTS

FINISHED C/L CTH ET

SILT FENCE TURN-AROUND REQ'D
(SEE CONSTRUCTION DETAILS)

STA. 59+50 - STA. 74+00, RT.
EXISTING WETLANDS (SEE NOTE)

SILT FENCE TURN-AROUND REQ'D
(SEE CONSTRUCTION DETAILS)

SOUTH FORK
LEMONWEIR RIVER

TLE REQ'D.

WETLAND DETERMINATION (TYP.)

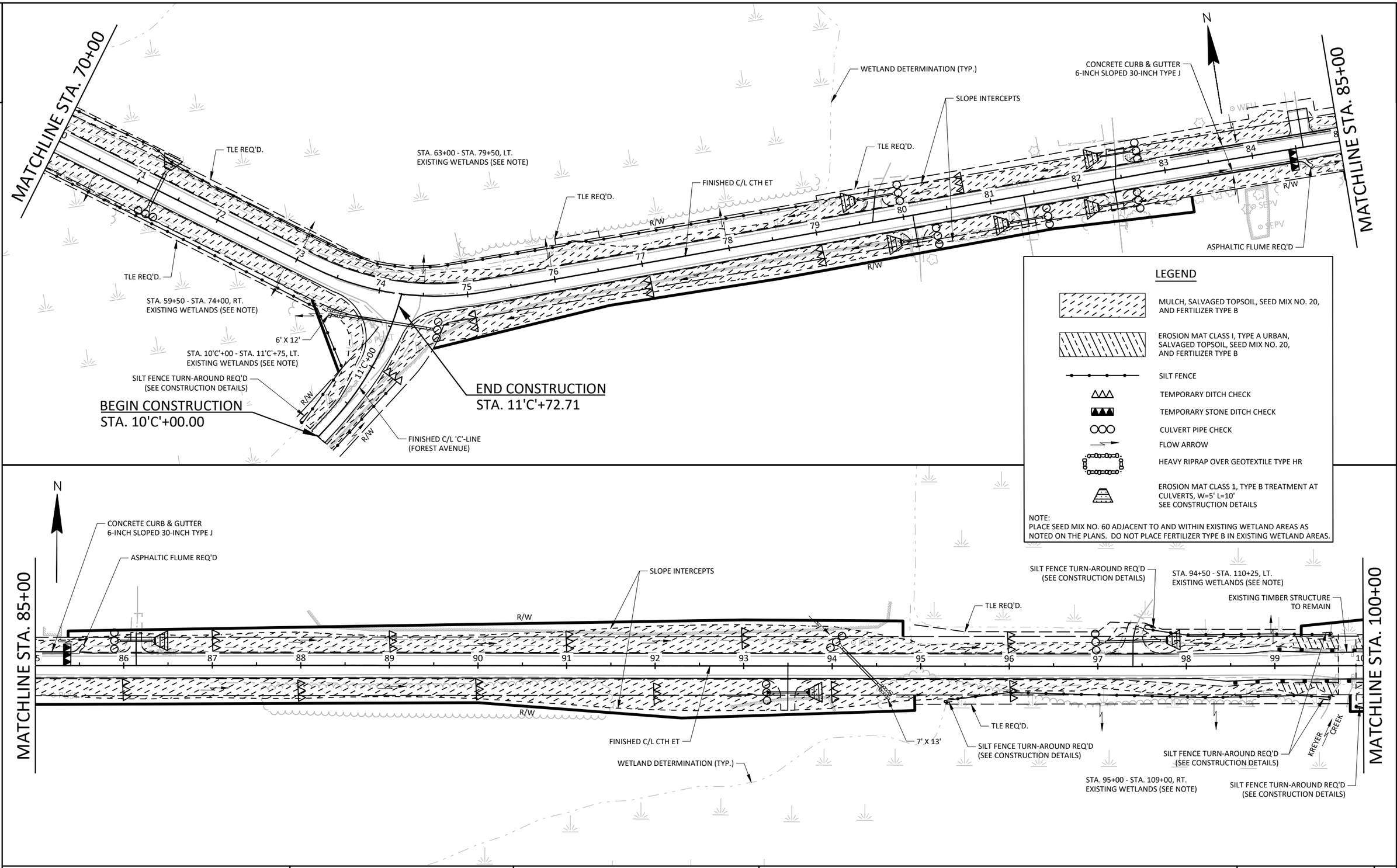
STA. 51+75 - STA. 56+00, RT.
EXISTING WETLANDS (SEE NOTE)

MATCHLINE STA. 55+00

MATCHLINE STA. 70+00

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_EROSION CONTROL_1.DWG PLOT DATE : 1/3/2024 3:23:20 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 2



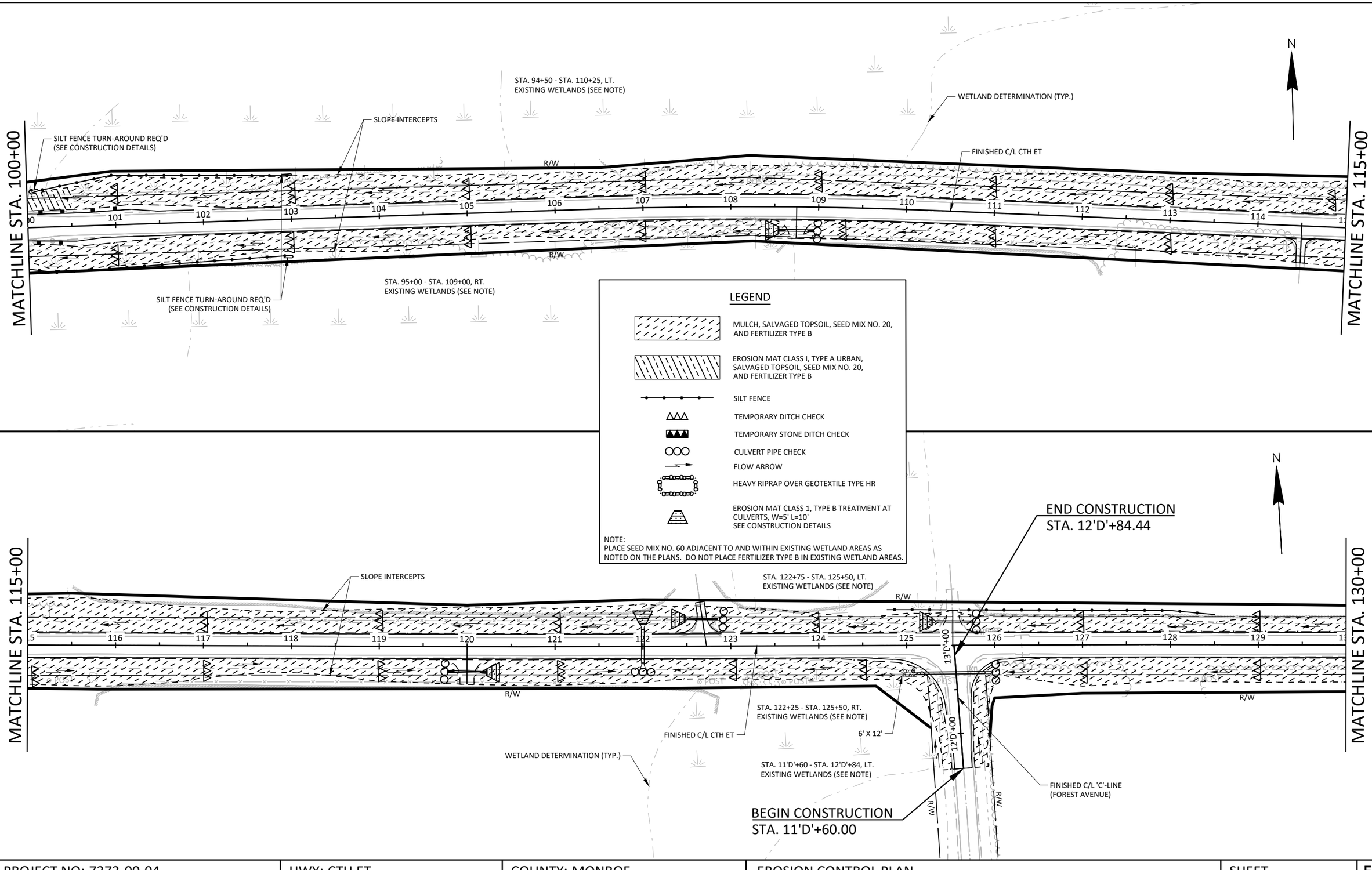
LEGEND

- MULCH, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- EROSION MAT CLASS I, TYPE A URBAN, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- FLOW ARROW
- HEAVY RIPRAP OVER GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE B TREATMENT AT CULVERTS, W=5' L=10' SEE CONSTRUCTION DETAILS

NOTE:
PLACE SEED MIX NO. 60 ADJACENT TO AND WITHIN EXISTING WETLAND AREAS AS NOTED ON THE PLANS. DO NOT PLACE FERTILIZER TYPE B IN EXISTING WETLAND AREAS.

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET 31	E

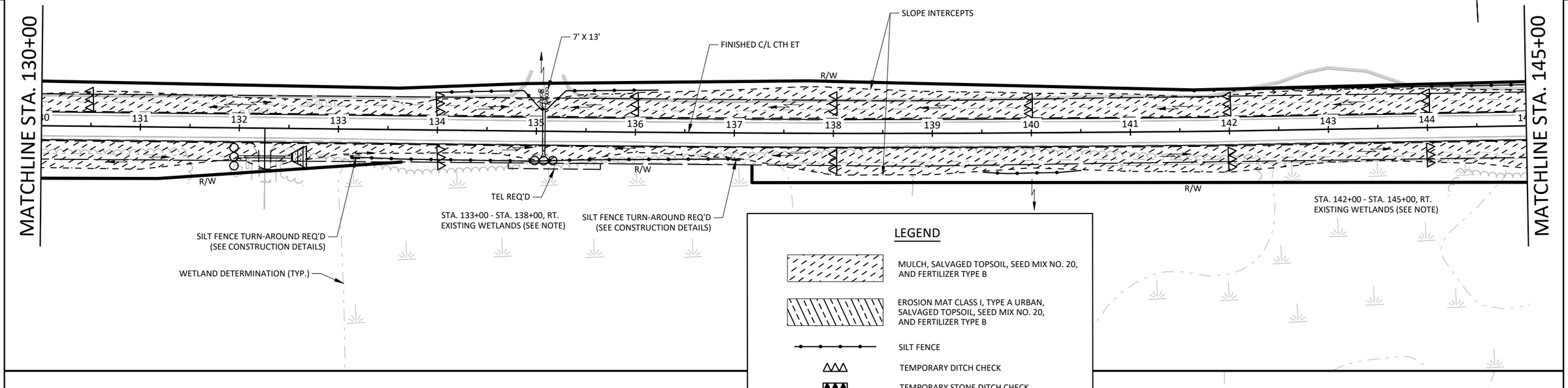
2



PROJECT NO: 7373-00-04	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_EROSION CONTROL_1.DWG PLOT DATE : 1/3/2024 3:23:36 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 4

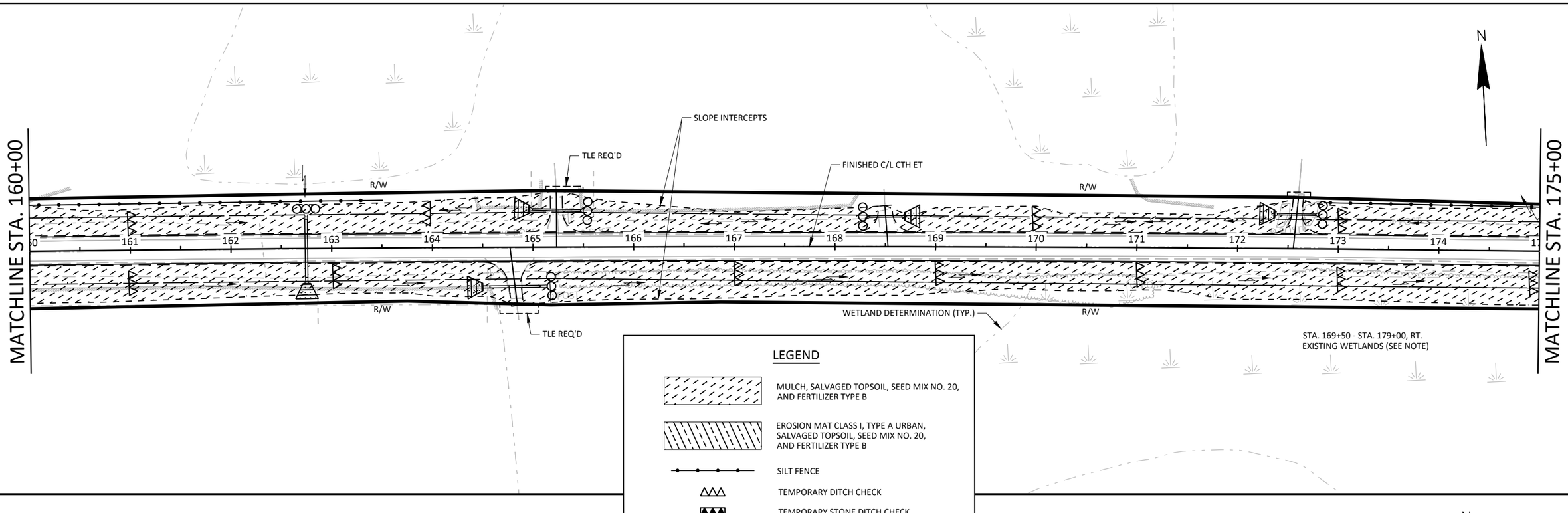
2



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_EROSION CONTROL_1.DWG PLOT DATE : 1/3/2024 3:23:44 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 5

2



LEGEND

- MULCH, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- EROSION MAT CLASS I, TYPE A URBAN, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- FLOW ARROW
- HEAVY RIPRAP OVER GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE B TREATMENT AT CULVERTS, W=5' L=10' SEE CONSTRUCTION DETAILS

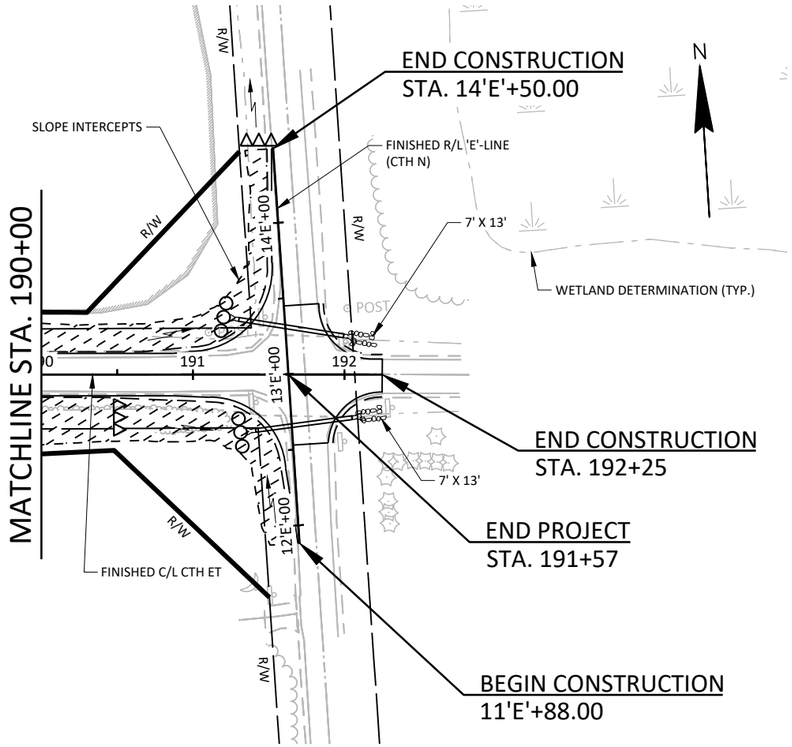
NOTE:
PLACE SEED MIX NO. 60 ADJACENT TO AND WITHIN EXISTING WETLAND AREAS AS NOTED ON THE PLANS. DO NOT PLACE FERTILIZER TYPE B IN EXISTING WETLAND AREAS.

2

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_EROSION CONTROL_1.DWG PLOT DATE : 1/3/2024 3:23:51 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 6

2

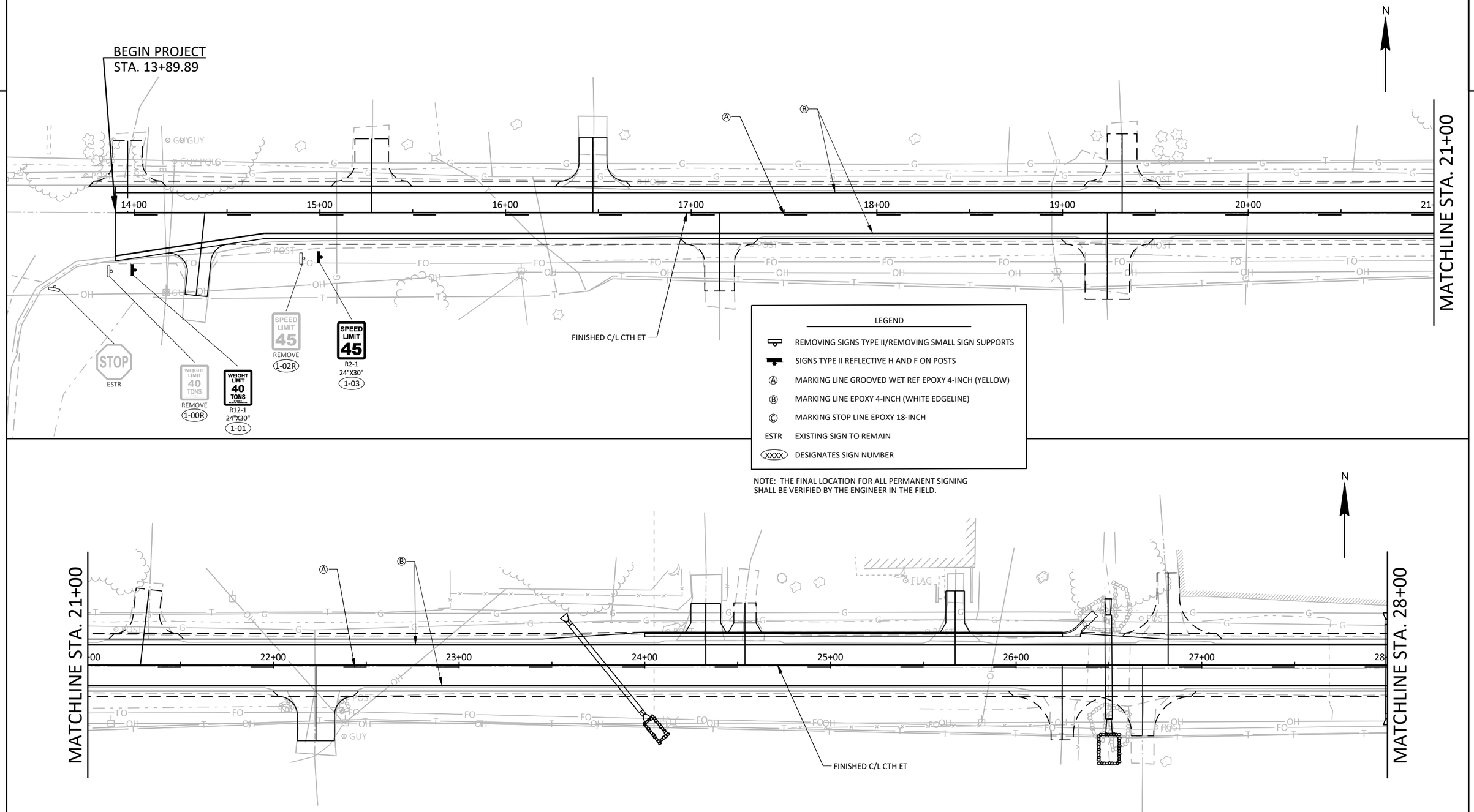


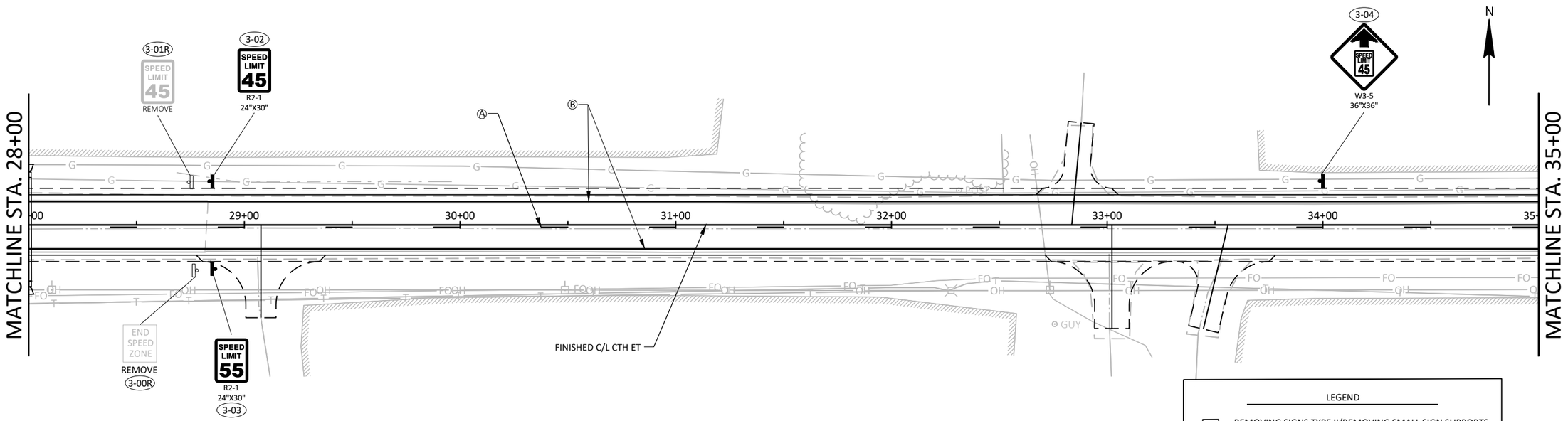
LEGEND

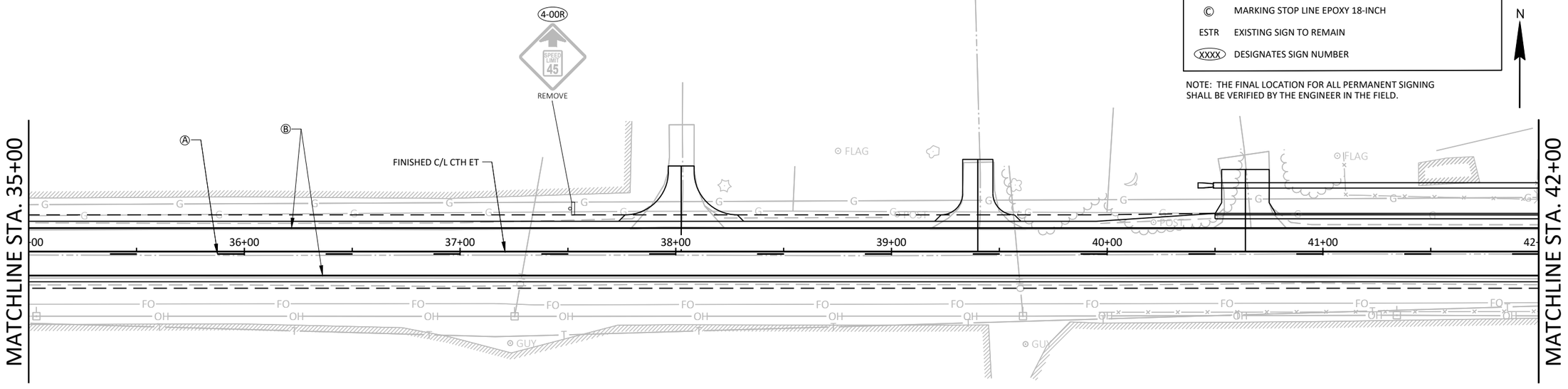
- MULCH, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- EROSION MAT CLASS I, TYPE A URBAN, SALVAGED TOPSOIL, SEED MIX NO. 20, AND FERTILIZER TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- FLOW ARROW
- HEAVY RIPRAP OVER GEOTEXTILE TYPE HR
- EROSION MAT CLASS 1, TYPE B TREATMENT AT CULVERTS, W=5' L=10' SEE CONSTRUCTION DETAILS

NOTE:
PLACE SEED MIX NO. 60 ADJACENT TO AND WITHIN EXISTING WETLAND AREAS AS NOTED ON THE PLANS. DO NOT PLACE FERTILIZER TYPE B IN EXISTING WETLAND AREAS.

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET 35	E


BEGIN PROJECT
STA. 13+89.89
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21
MATCHLINE STA. 21+00
N
Ⓐ
Ⓑ
FINISHED C/L CTH ET
STOP
ESTR
WEIGHT LIMIT 40 TONS
REMOVE
1-00R
R12-1
24"X30"
1-01
SPEED LIMIT 45
REMOVE
1-02R
SPEED LIMIT 45
R2-1
24"X30"
1-03
LEGEND
REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ MARKING STOP LINE EPOXY 18-INCH
ESTR EXISTING SIGN TO REMAIN
XXXX DESIGNATES SIGN NUMBER
NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
MATCHLINE STA. 21+00
22+00
23+00
24+00
25+00
26+00
27+00
28
MATCHLINE STA. 28+00
FINISHED C/L CTH ET





LEGEND

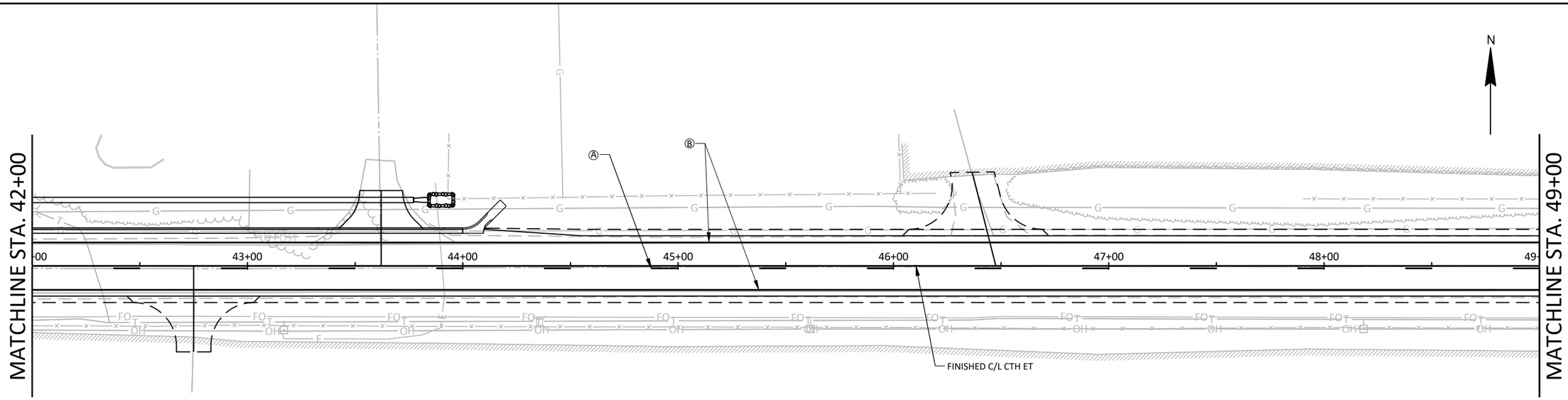
- REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- Ⓐ MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
- Ⓑ MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
- Ⓒ MARKING STOP LINE EPOXY 18-INCH
- ESTR EXISTING SIGN TO REMAIN
- (XXXX) DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVEMENTMARKINGANDSIGNING.DWG
PLOT DATE : 10/17/2023 4:33:35 PM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : SHEET - (2)

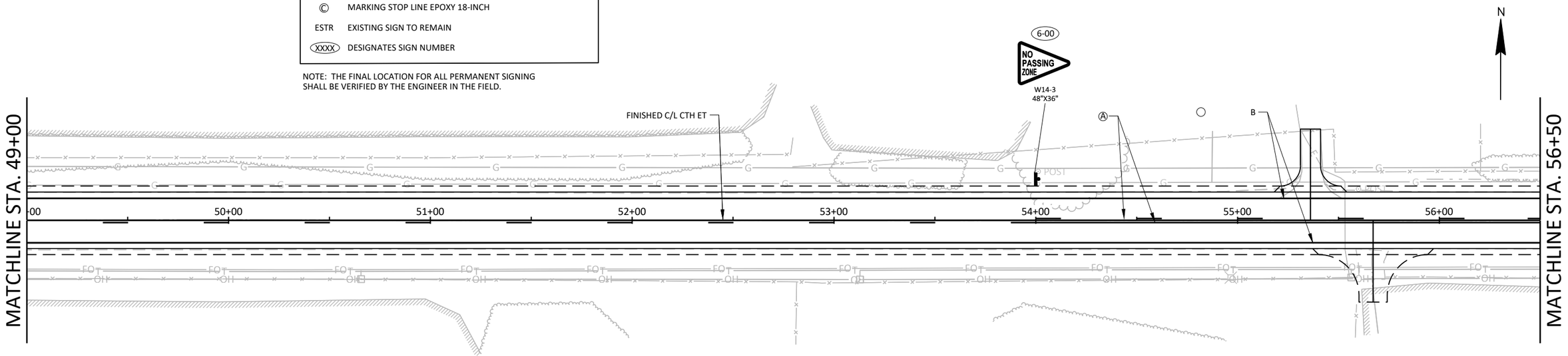
2



LEGEND

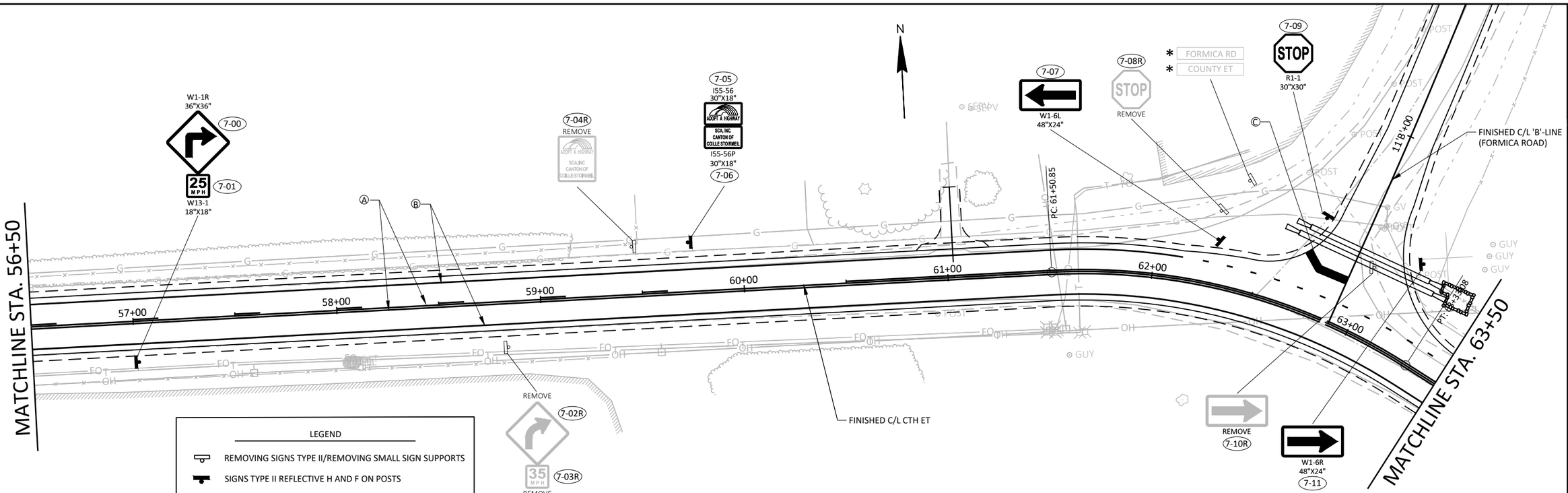
	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 38	E

2

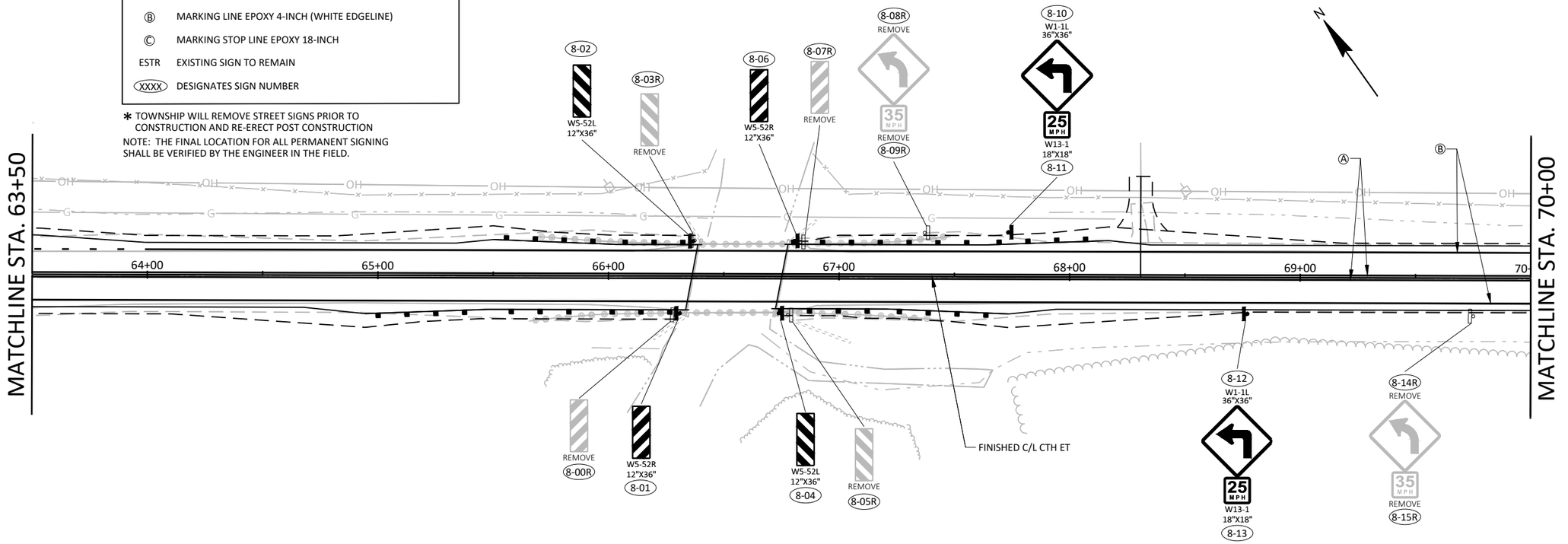


LEGEND

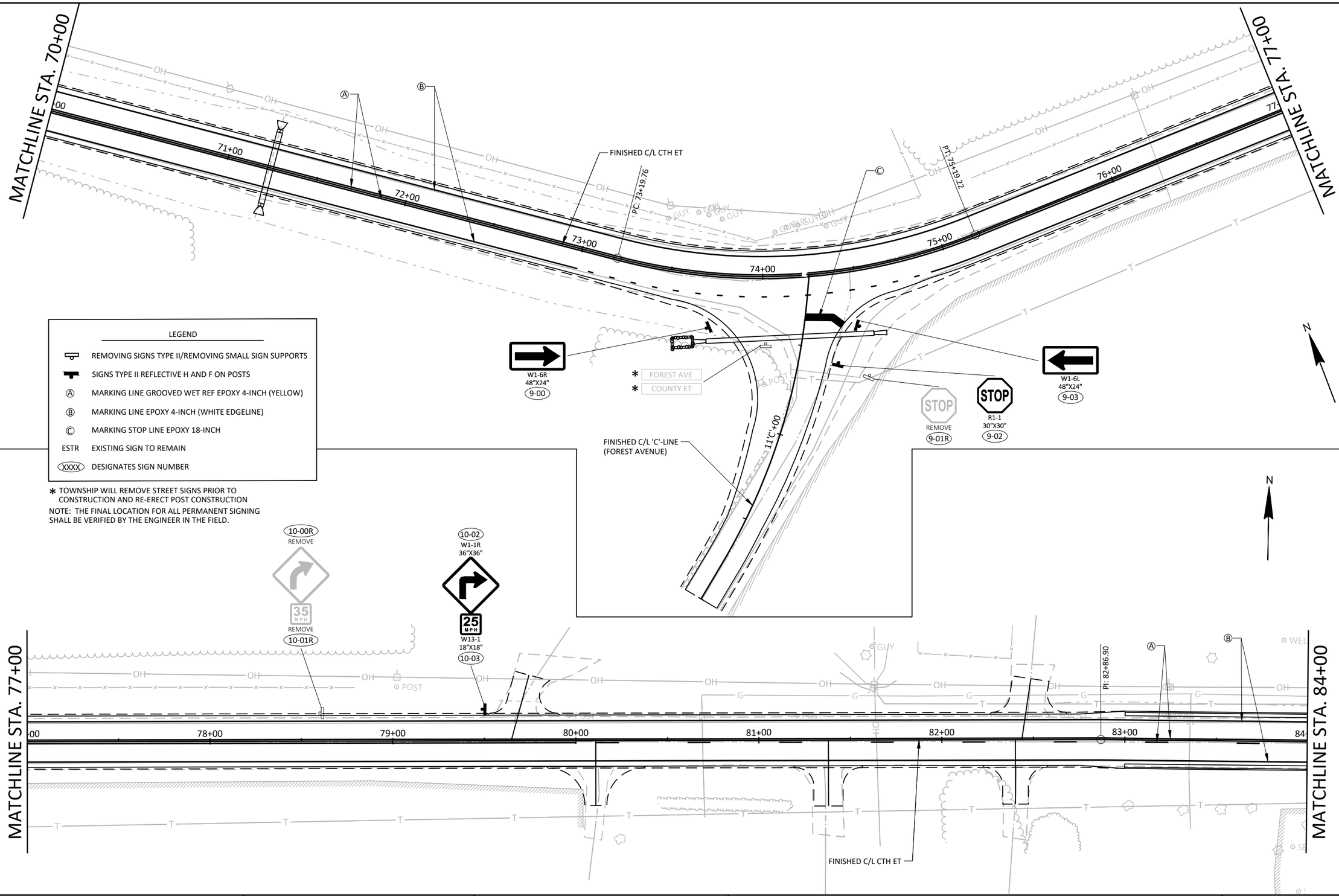
	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE EPOXY GROOVED WET REF 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
(XXXX)	DESIGNATES SIGN NUMBER

* TOWNSHIP WILL REMOVE STREET SIGNS PRIOR TO CONSTRUCTION AND RE-ERECT POST CONSTRUCTION

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 39	E



LEGEND

	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
(XXXX)	DESIGNATES SIGN NUMBER

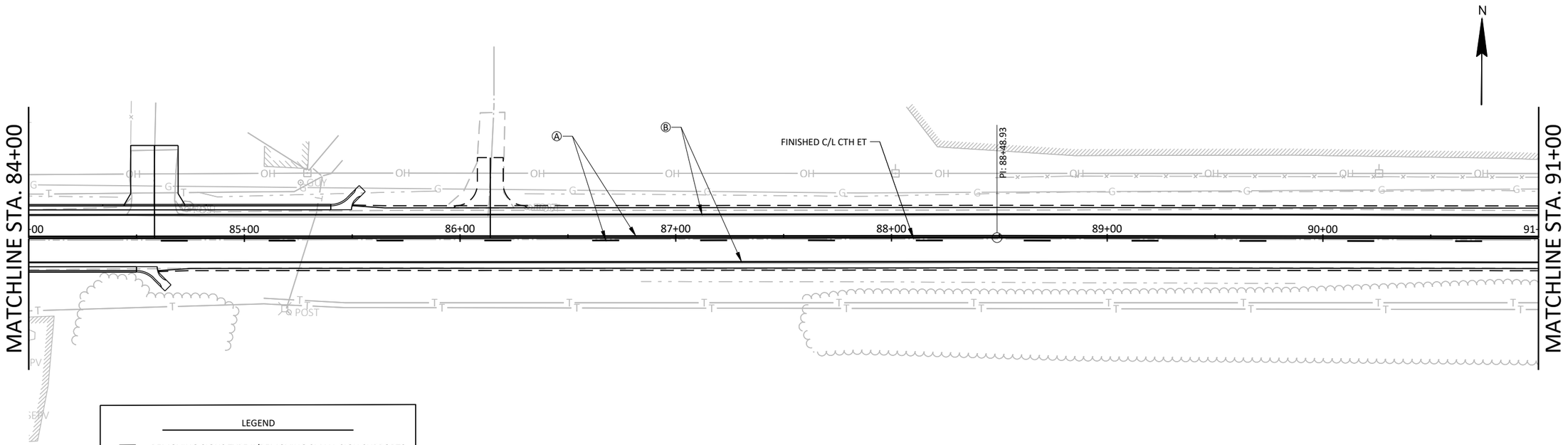
* TOWNSHIP WILL REMOVE STREET SIGNS PRIOR TO CONSTRUCTION AND RE-ERECT POST CONSTRUCTION

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVEMENTMARKINGANDSIGNING.DWG
PLOT DATE : 10/17/2023 4:33:51 PM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : SHEET - (5)

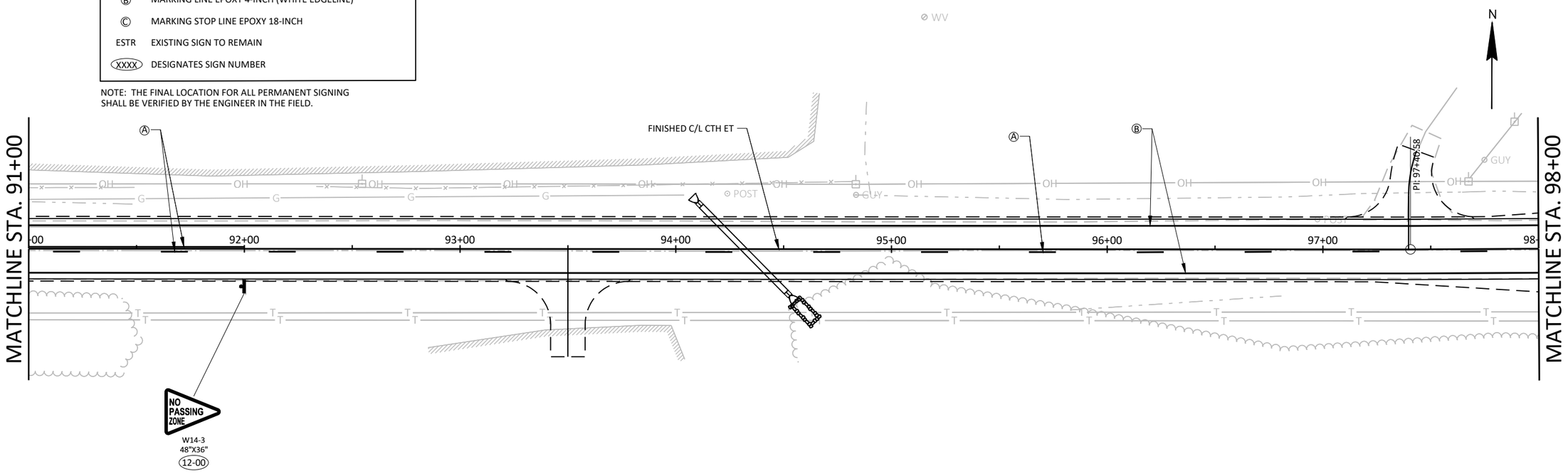
2



LEGEND

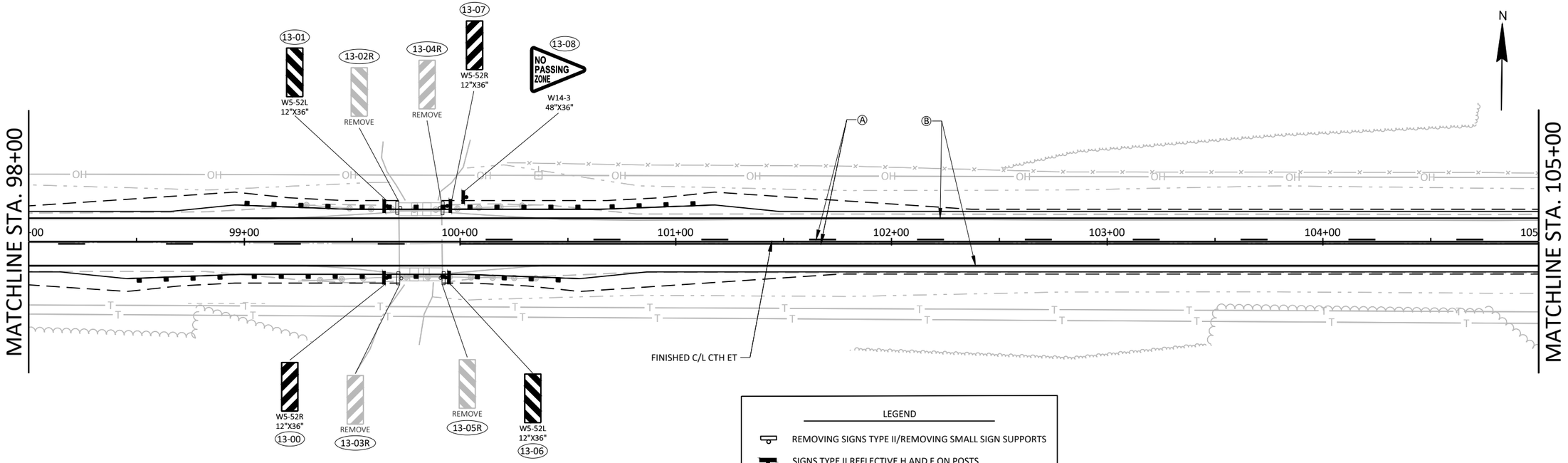
	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



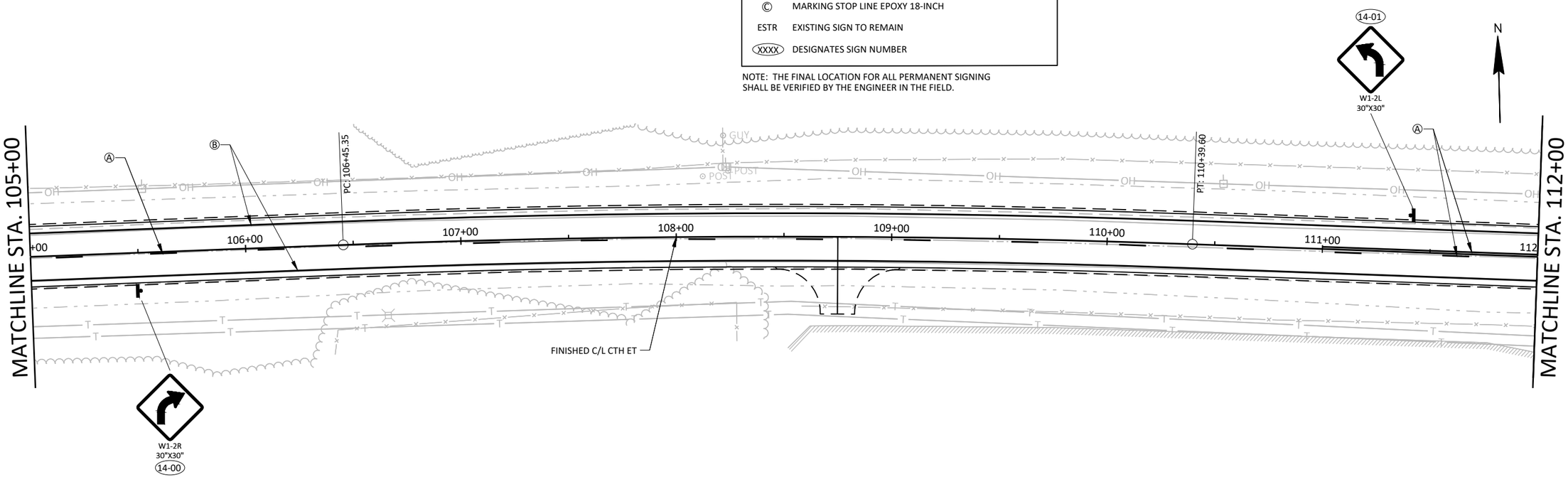
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVEMENTMARKINGANDSIGNING.DWG PLOT DATE : 10/17/2023 4:33:56 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : SHEET - (6)



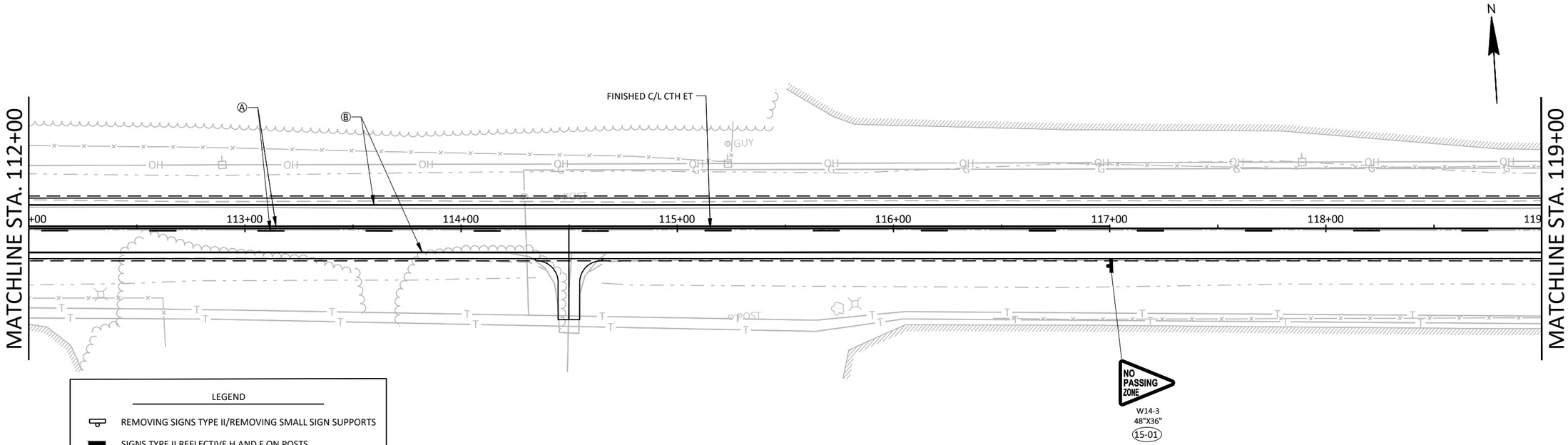
LEGEND	
	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 42	E

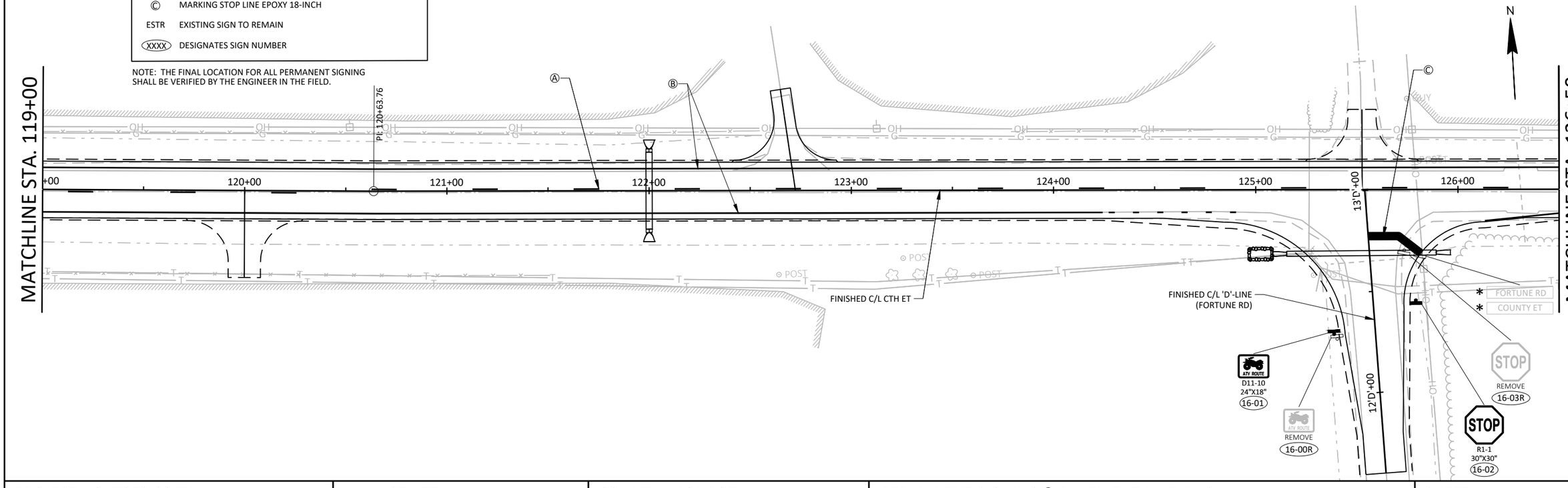
2



LEGEND

	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
(XXXX)	DESIGNATES SIGN NUMBER

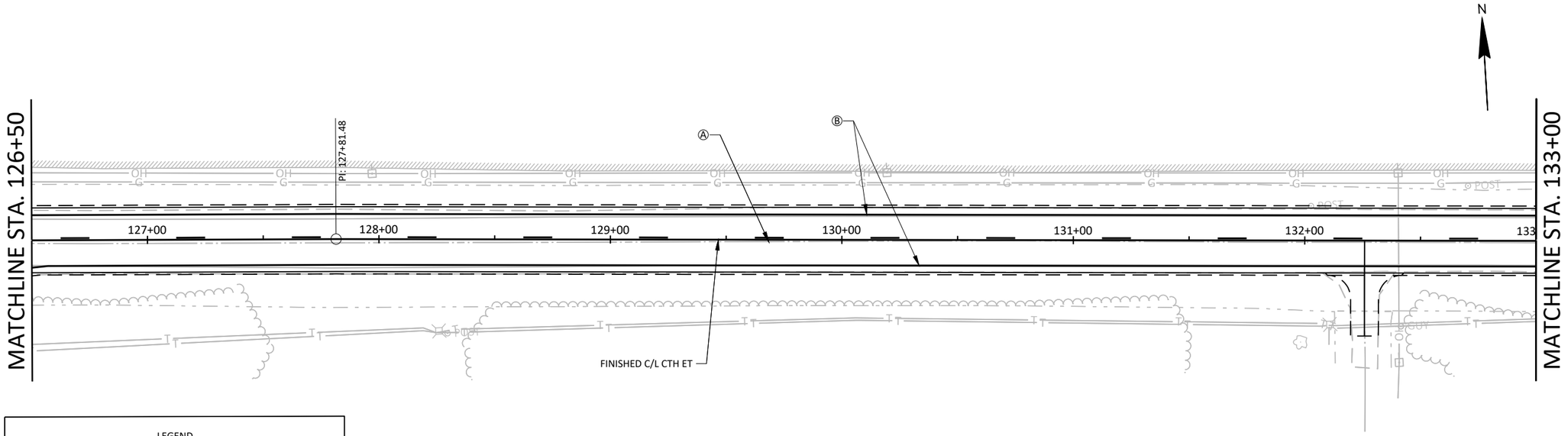
NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVEMENTMARKINGANDSIGNING.DWG
PLOT DATE : 10/17/2023 4:34:07 PM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : SHEET - (8)

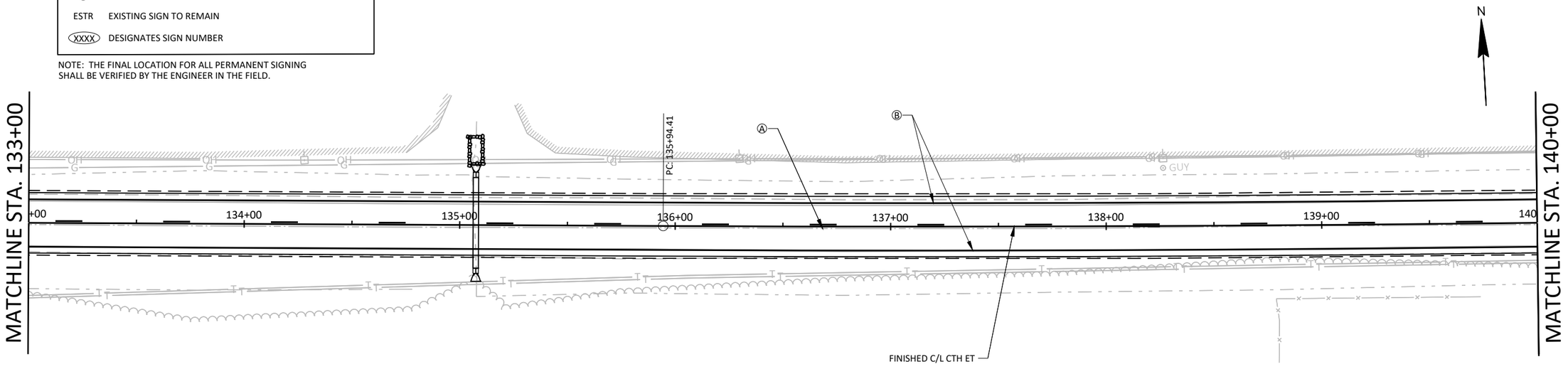
2



LEGEND

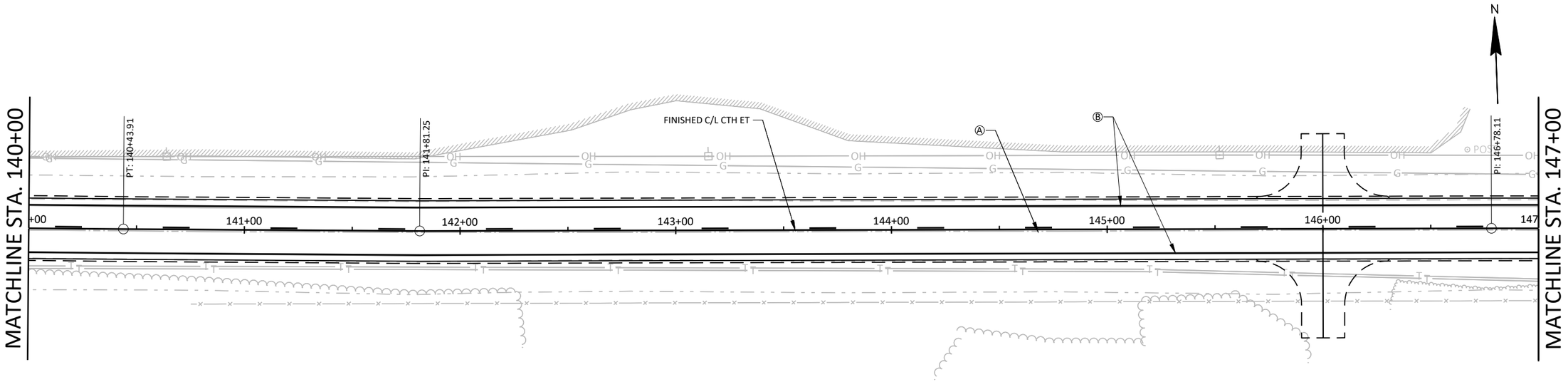
	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 44	E

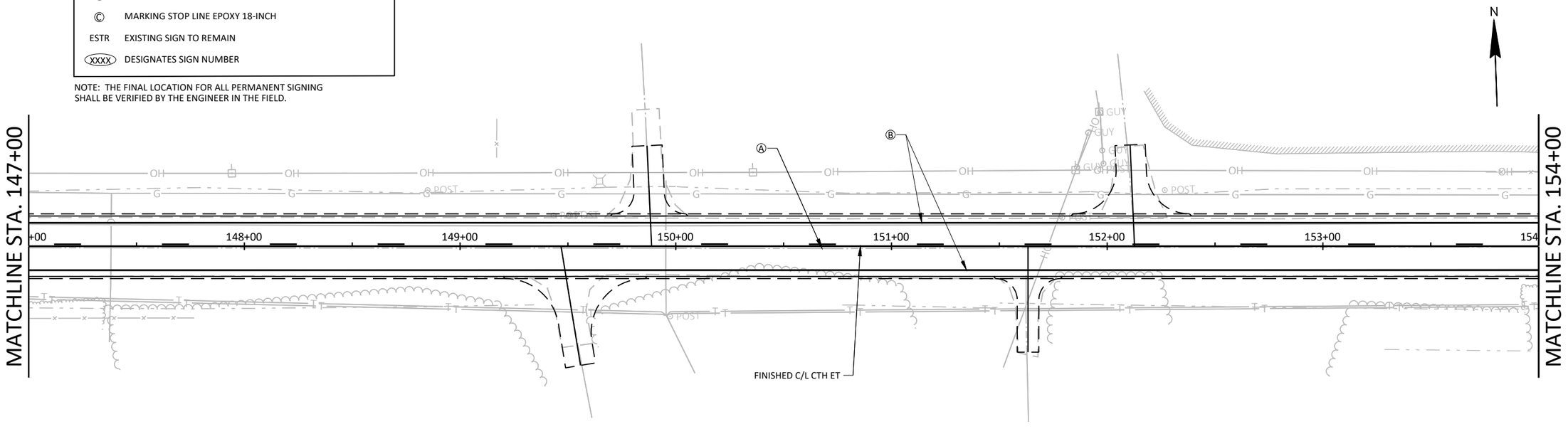
2



LEGEND

	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

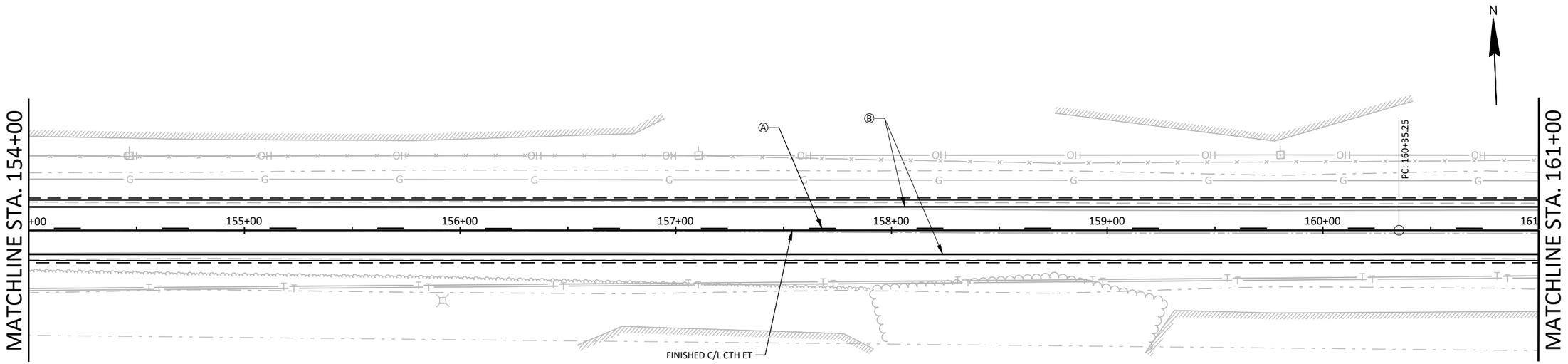
NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 45	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVEMENTMARKINGANDSIGNING.DWG
PLOT DATE : 10/17/2023 4:34:17 PM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : SHEET - (10)

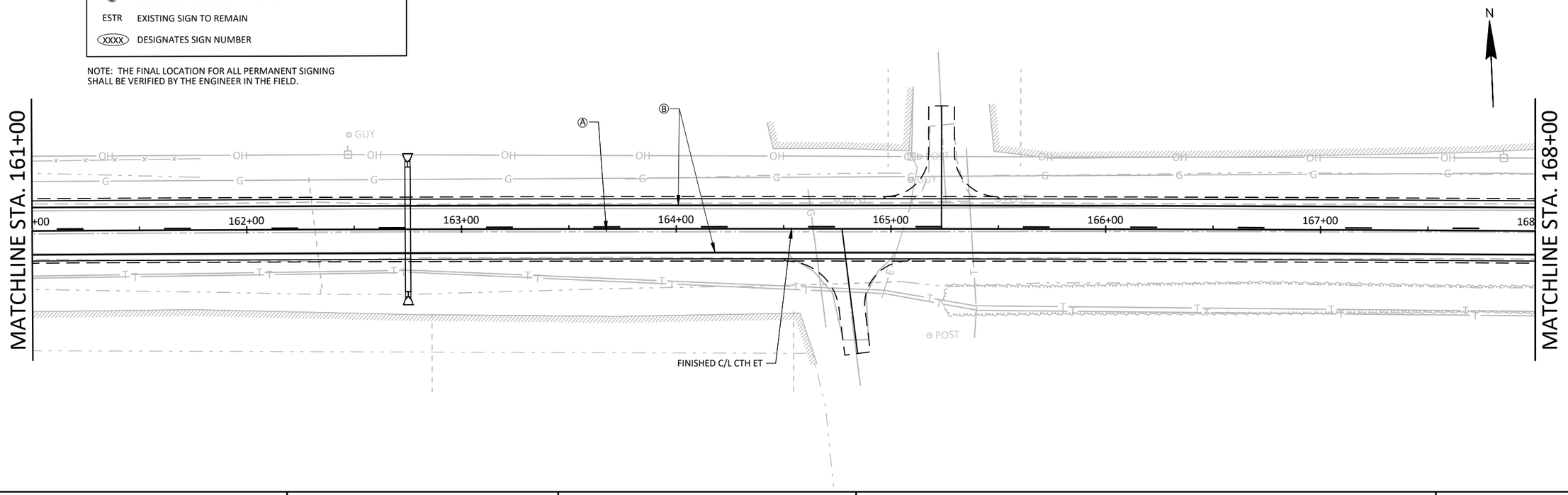
2



LEGEND

	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

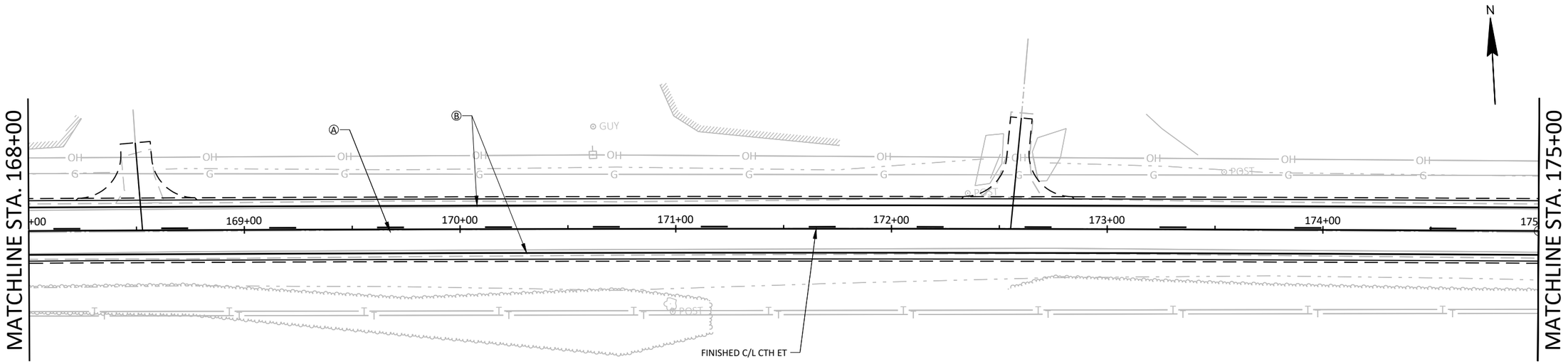
NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_PAVEMENTMARKINGANDSIGNING.DWG PLOT DATE : 10/17/2023 4:34:23 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : SHEET - (11)

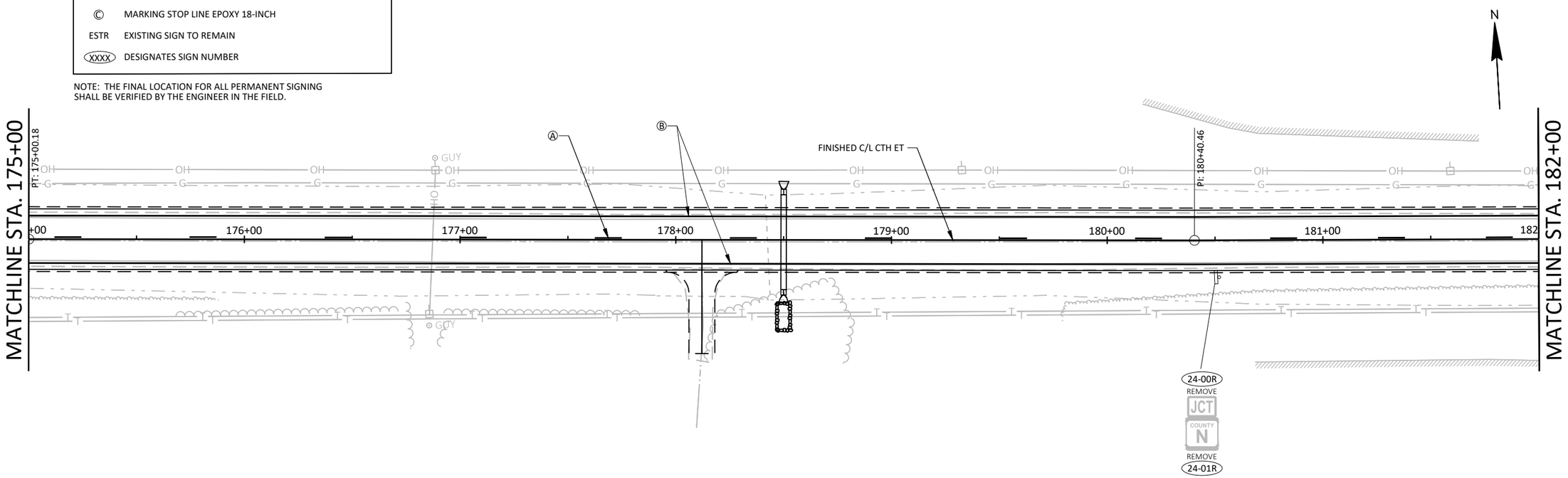
2



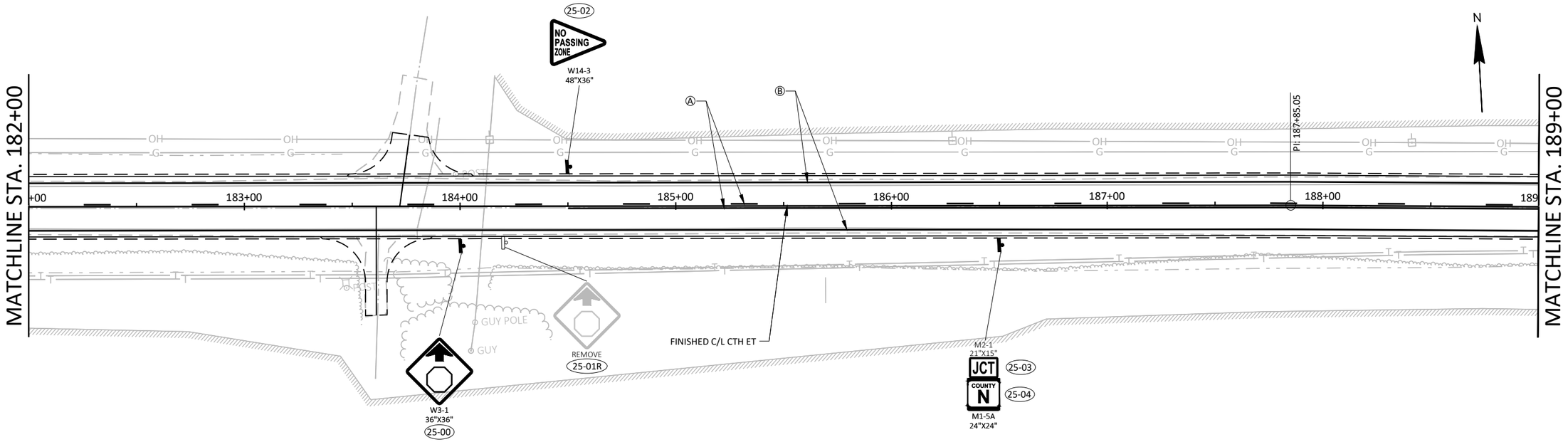
LEGEND

	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
Ⓑ	MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
Ⓒ	MARKING STOP LINE EPOXY 18-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



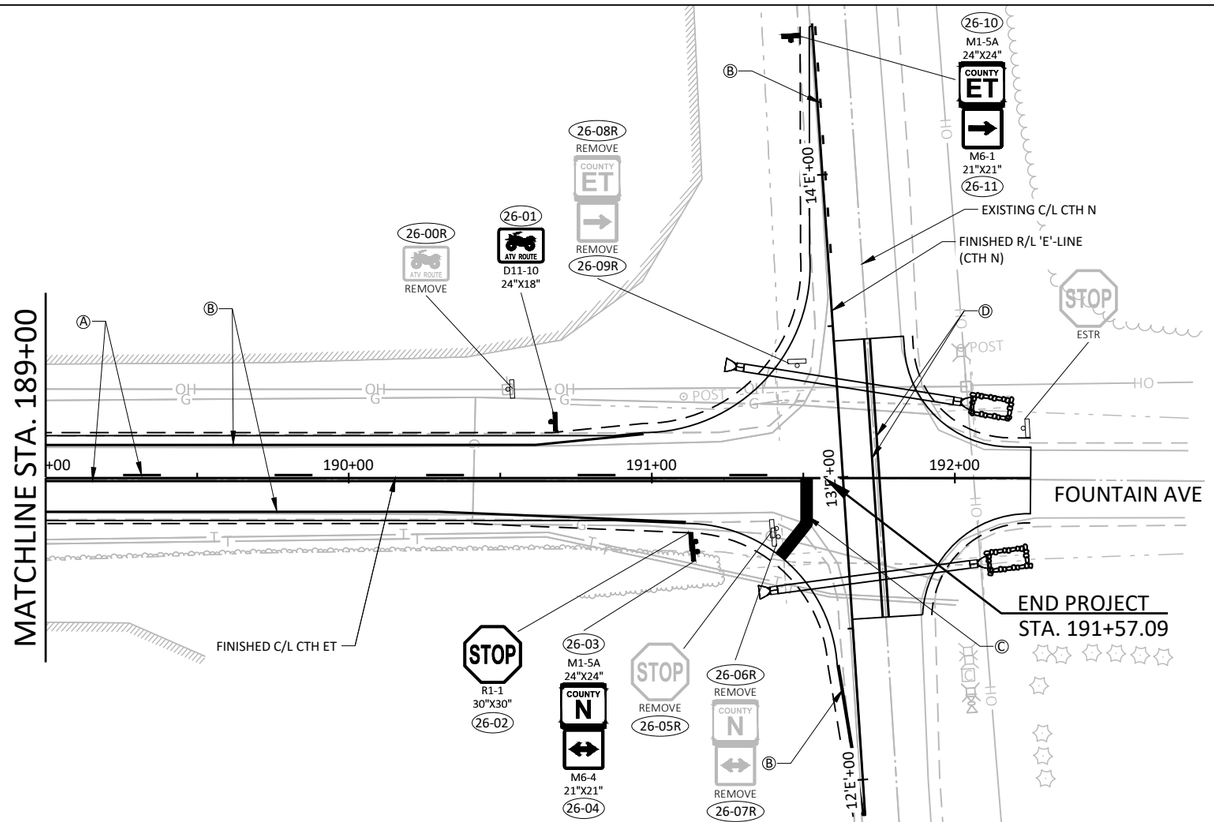
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 47	E



LEGEND

- REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- Ⓐ MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW)
- Ⓑ MARKING LINE EPOXY 4-INCH (WHITE EDGELINE)
- Ⓒ MARKING STOP LINE EPOXY 18-INCH
- Ⓓ MARKING LINE EPOXY 4-INCH (YELLOW)
- ESTR EXISTING SIGN TO REMAIN
- (XXXX) DESIGNATES SIGN NUMBER

NOTE: THE FINAL LOCATION FOR ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.



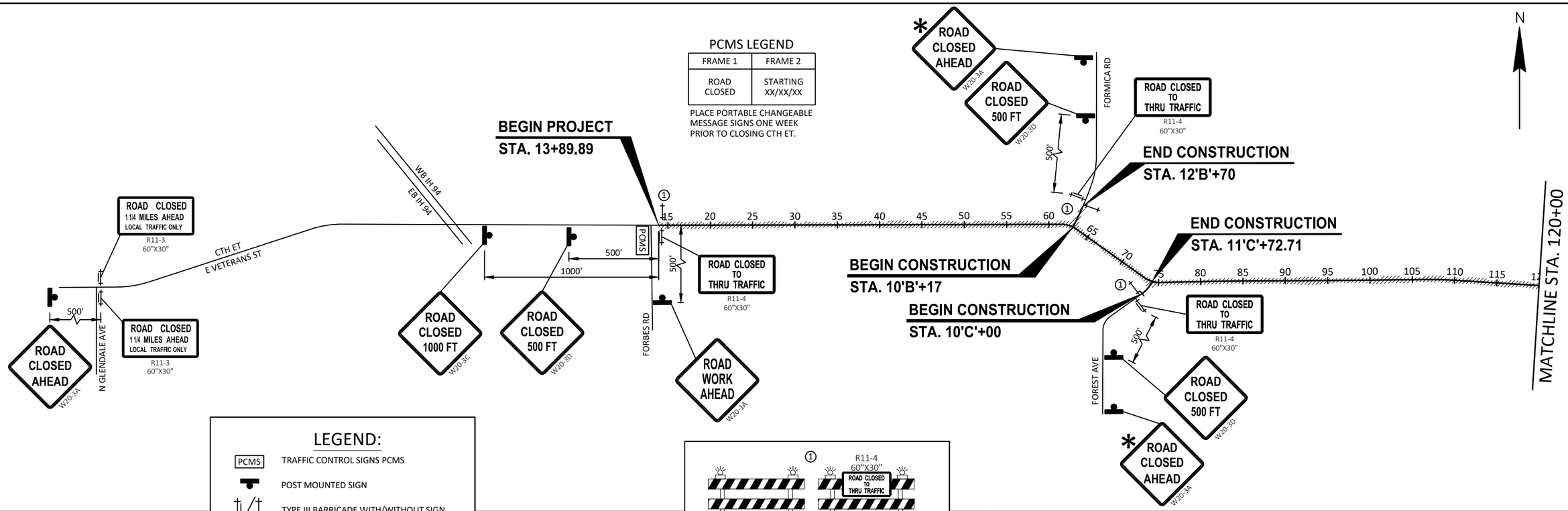
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING & PAVEMENT MARKING	SHEET 48	E

2

PCMS LEGEND

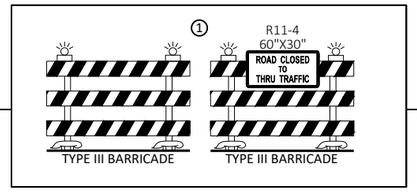
FRAME 1	FRAME 2
ROAD CLOSED	STARTING XX/XX/XX

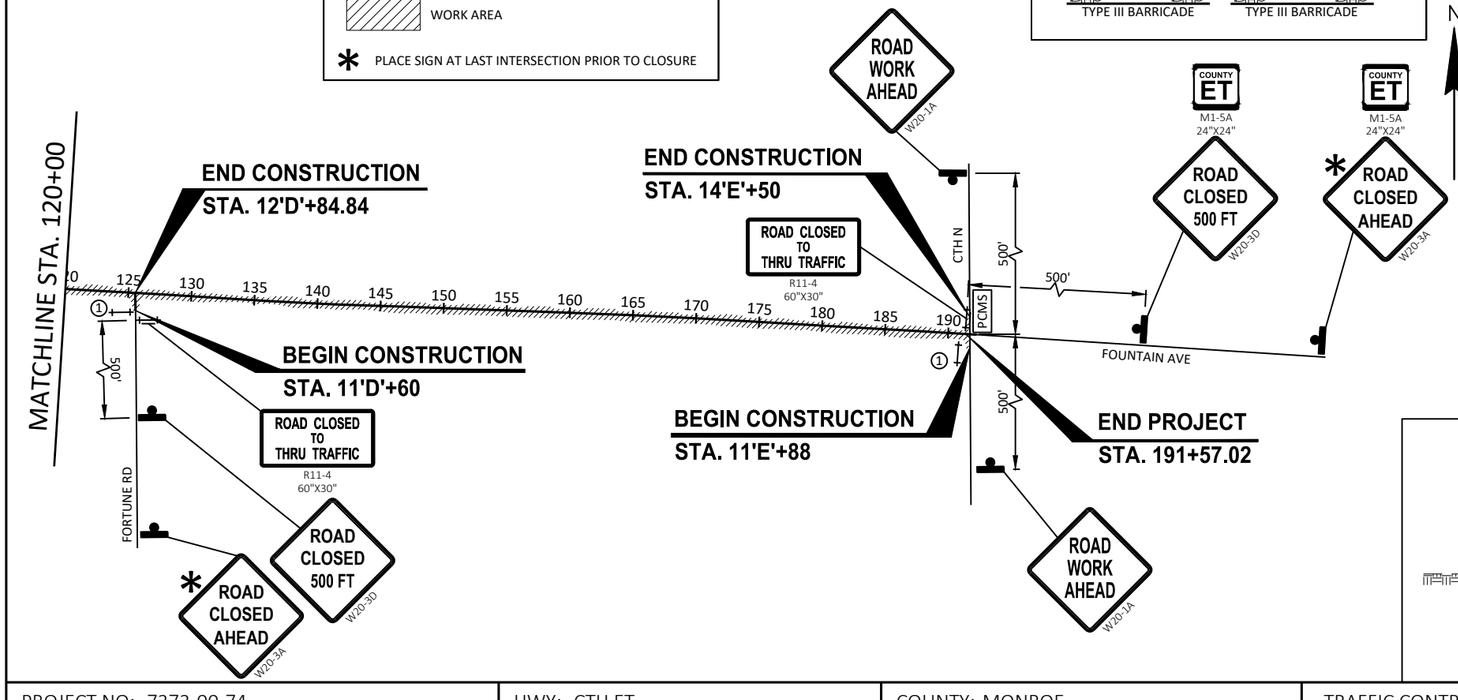
PLACE PORTABLE CHANGEABLE MESSAGE SIGNS ONE WEEK PRIOR TO CLOSING CTH ET.



LEGEND:

- PCMS — TRAFFIC CONTROL SIGNS PCMS
- POST MOUNTED SIGN
- TYPE III BARRICADE WITH/WITHOUT SIGN
- WORK AREA
- * PLACE SIGN AT LAST INTERSECTION PRIOR TO CLOSURE





THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTEDTO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.

ALL "W" AND "WO" SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

ANY STOP SIGNS WHICH ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, LIGHTS, TEMPORARY MARKINGS, FLAGGERS AND SUCH OTHER SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200' CLEARANCE TO EXISTING SIGNS.

DURING HOURS OF DARKNESS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

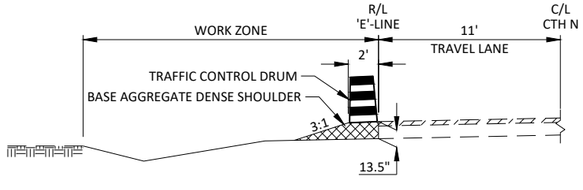
DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHODS OR SEQUENCES OF OPERATION.

ROAD MACHINERY, FLAGGERS AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHTS, ON WEEKENDS OR WHEN THE ACTIVITY DOES NOT EXIST.

ADDITIONAL DRUMS OR TYPE III BARRICADES MAY BE REQUIRED ADJACENT TO DROP-OFFS, OPEN TRENCHES, OR PROTRUSIONS. COST TO BE INCLUDED WITH OPERATION WHICH CREATES THE HAZARD.

DRUMS PLACED ADJACENT TO WORK AREAS SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" FOR WORK ON ADJACENT TO CTH N.



CTH N SHOULDER DROP-OFF DETAIL

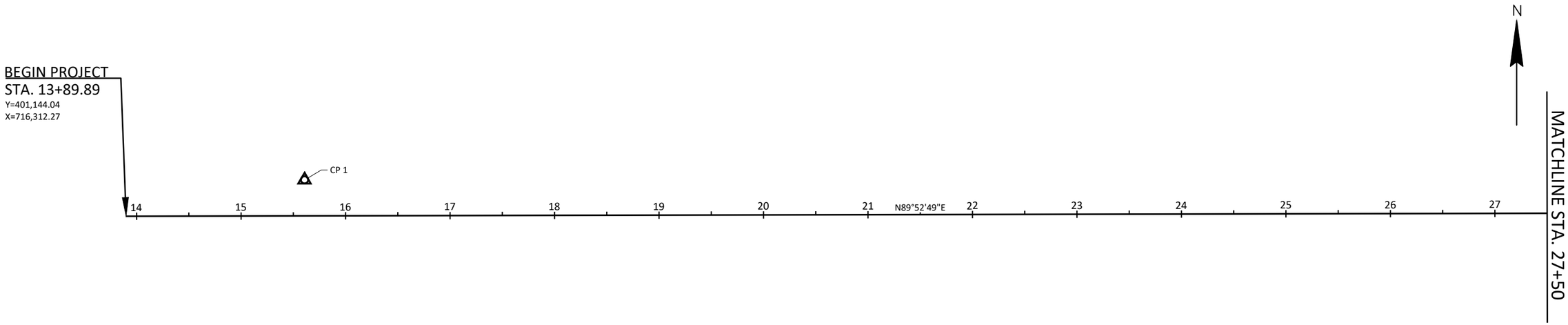
STA. 12'E'+88 - STA. 14'E'+50

NOTES:
CONSTRUCT BASE AGGREGATE DENSE SHOULDER AND DELINEATE WITH TRAFFIC CONTROL DRUMS AS SHOWN WHEN CTH N IS OPEN TO TRAFFIC WITH NO FLAGGING CONTROL.

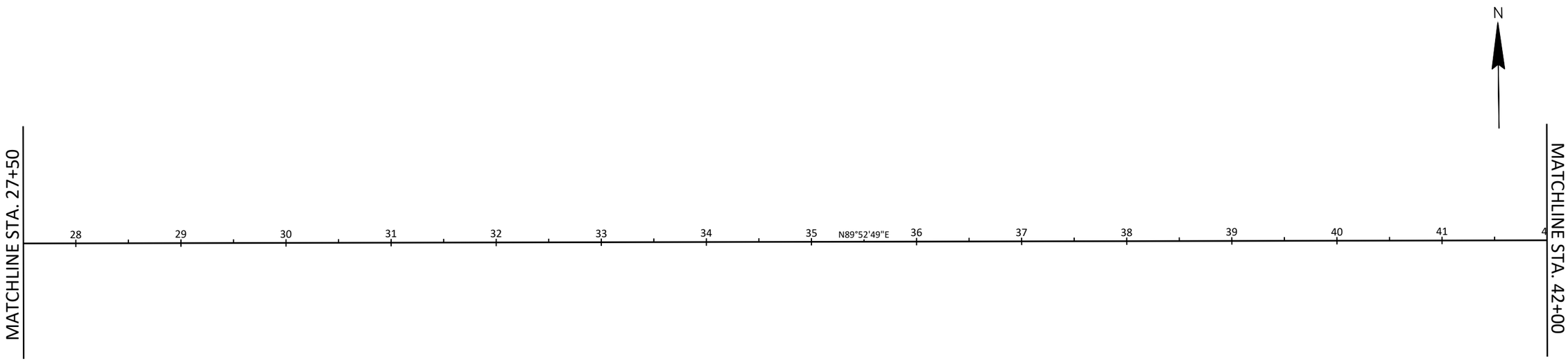
SEE S.D.D. "TRAFFIC CONTROL, DROP-OFF SIGNING" FOR MORE INFORMATION.

BASE AGGREGATE DENSE SHOULDER PLACEMENT AND SHAPING IS INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.

2



2

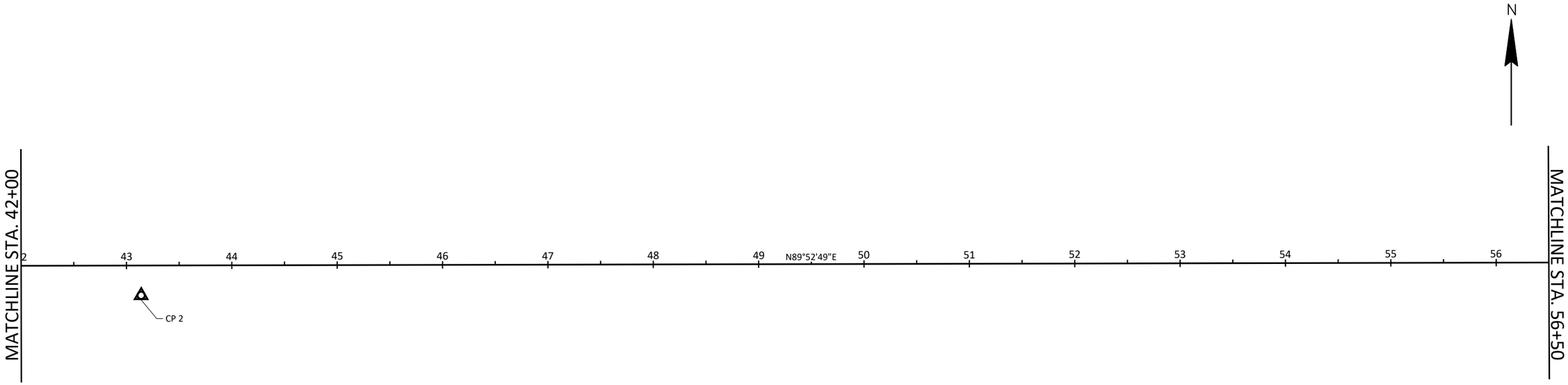


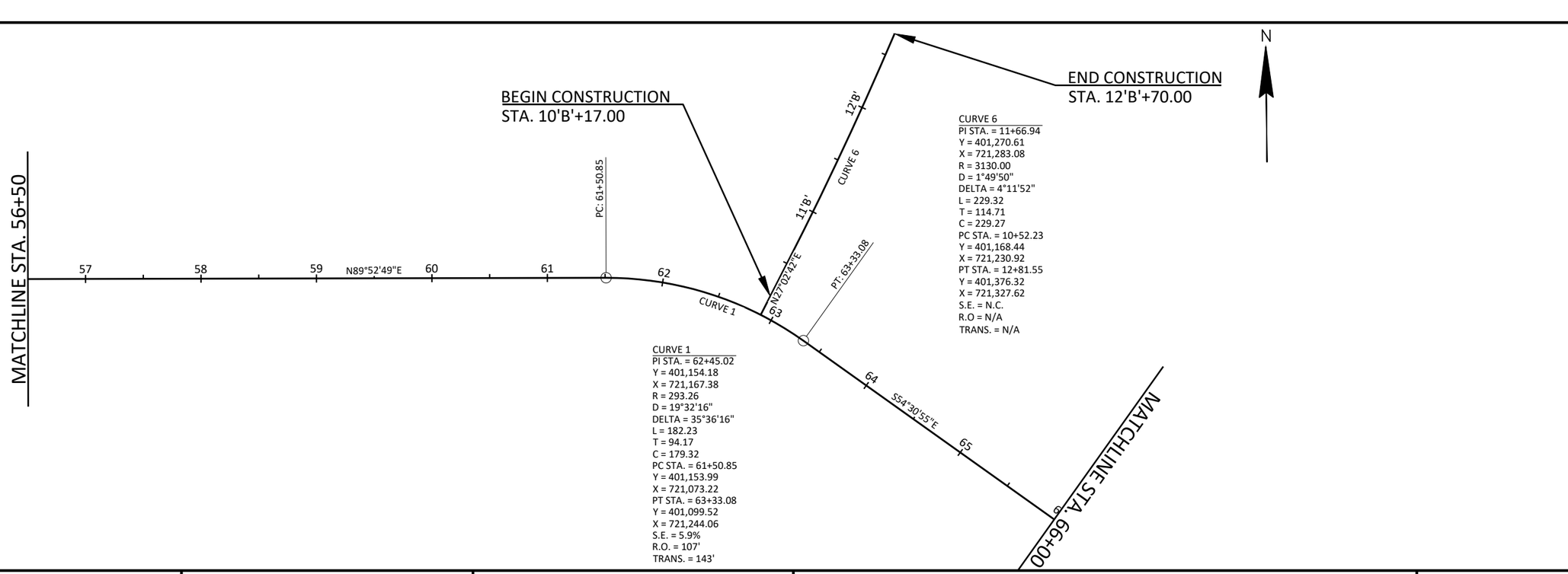
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 50	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_ALIGNMENT DETAILS.DWG
LAYOUT NAME - Layout 1

PLOT DATE : 10/6/2023 8:21 AM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : ##########

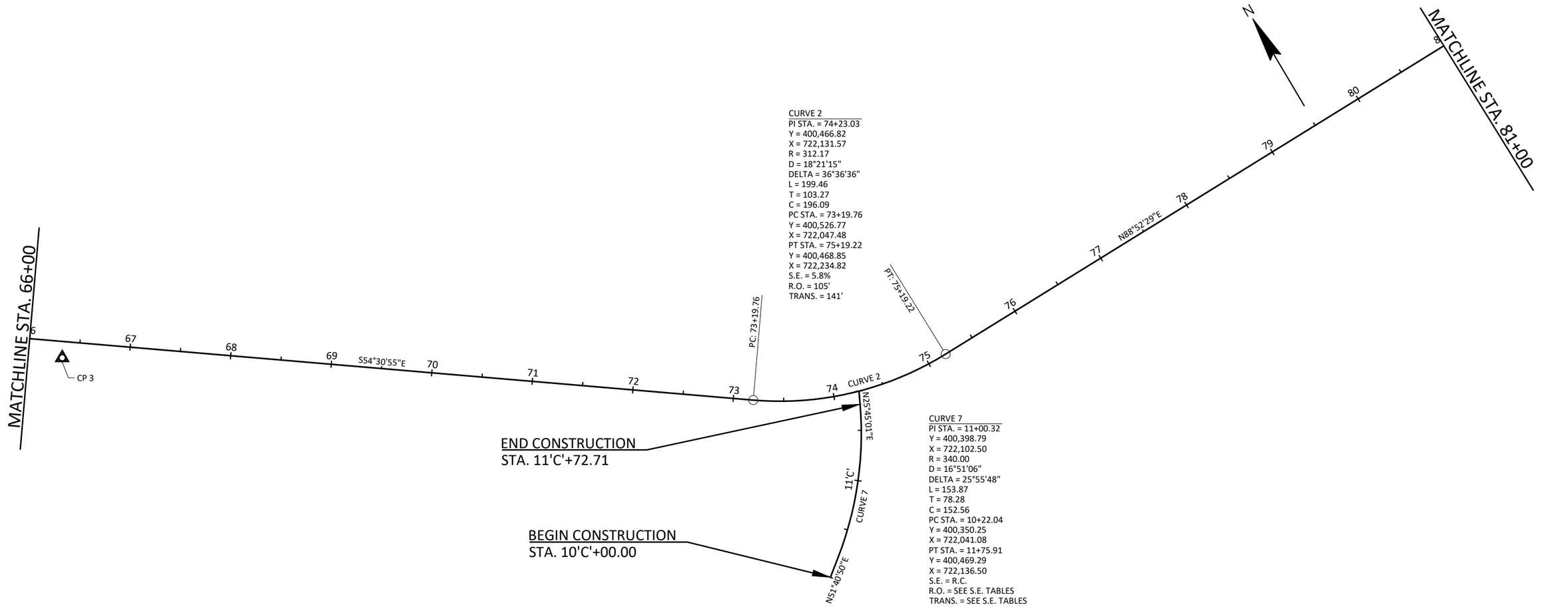
2

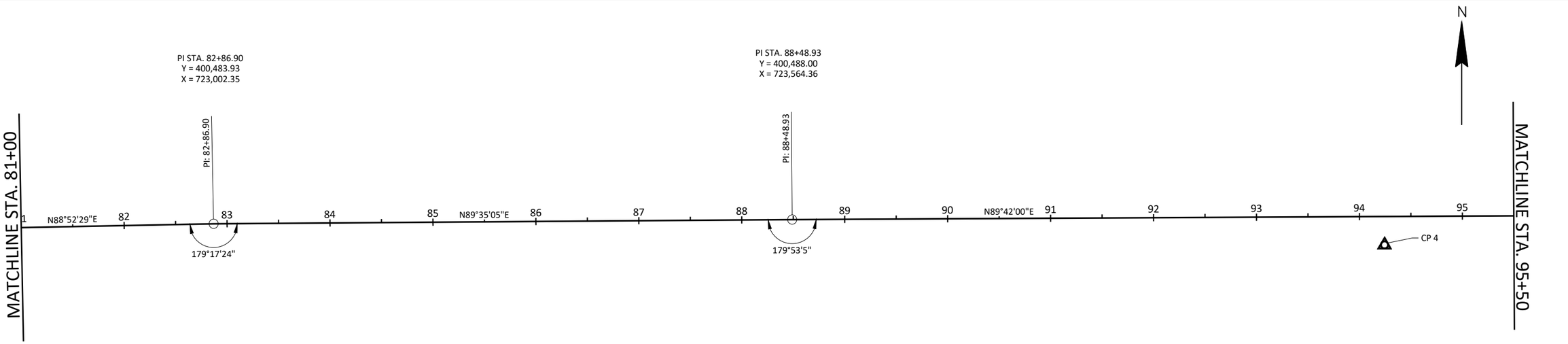




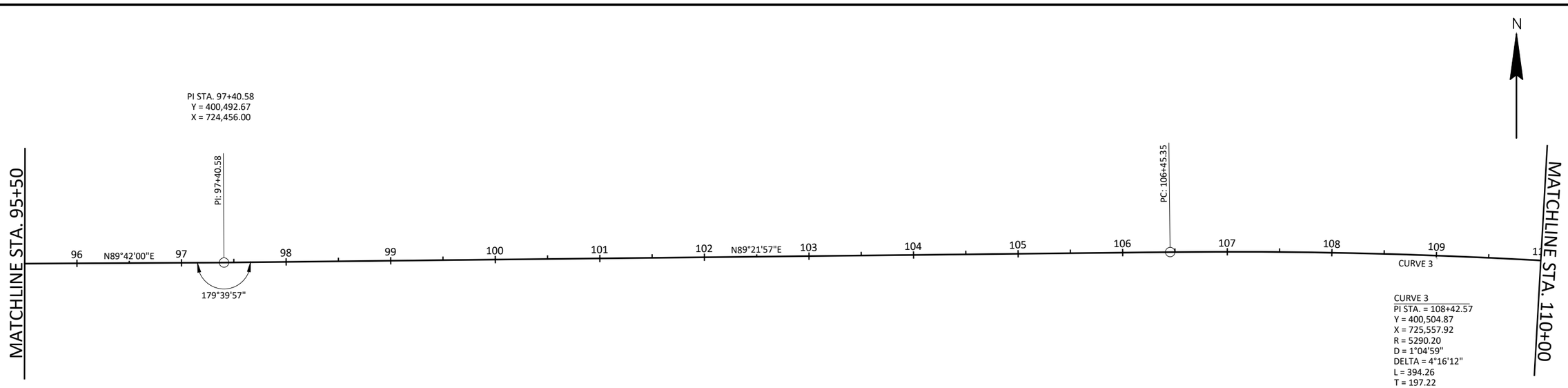
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 51	E

2

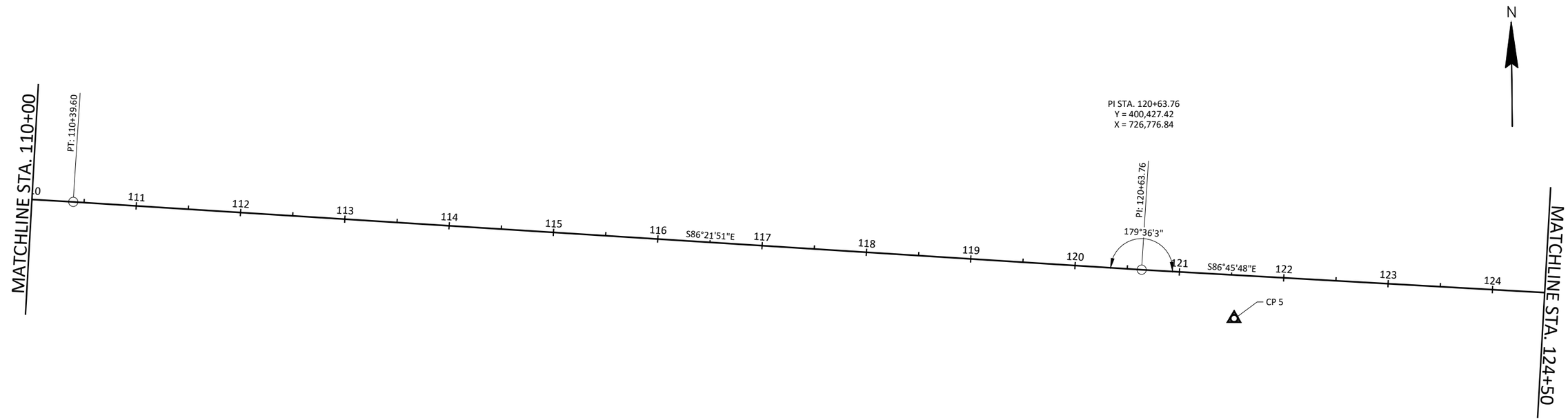




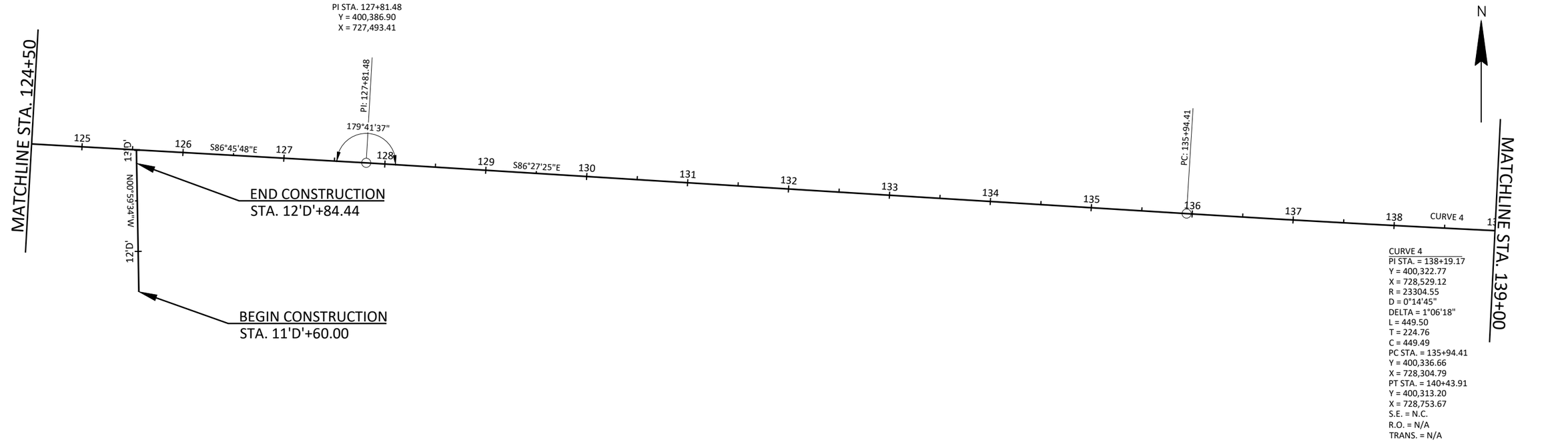
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 52	E

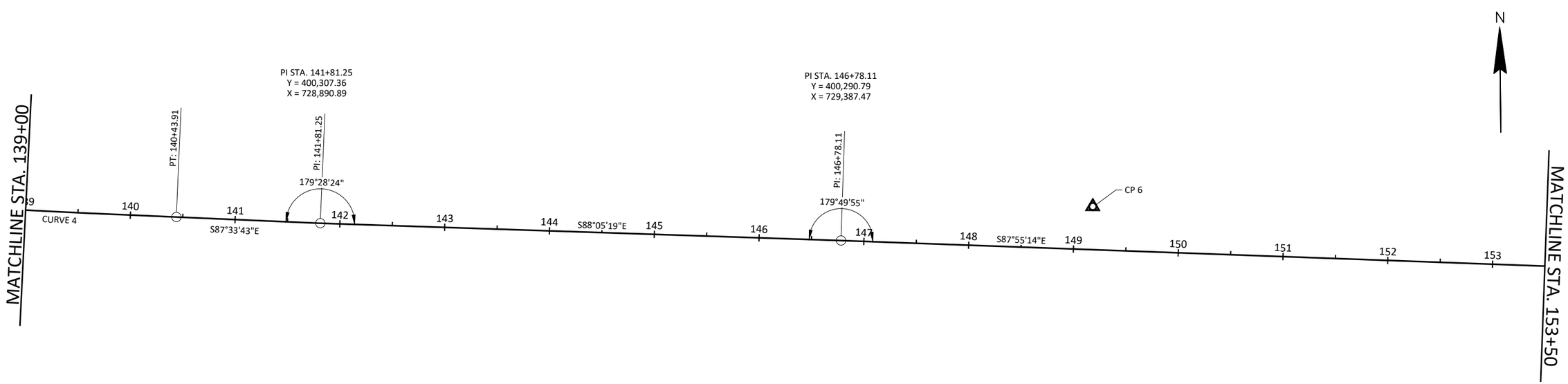


CURVE 3
PI STA. = 108+42.57
Y = 400,504.87
X = 725,557.92
R = 5290.20
D = 1°04'59"
DELTA = 4°16'12"
L = 394.26
T = 197.22
C = 394.16
PC STA. = 106+45.35
Y = 400,502.69
X = 725,360.72
PT STA. = 110+39.60
Y = 400,492.36
X = 725,754.75\
S.E. = 2.2%
R.O. = 53'
TRANS. = 101'

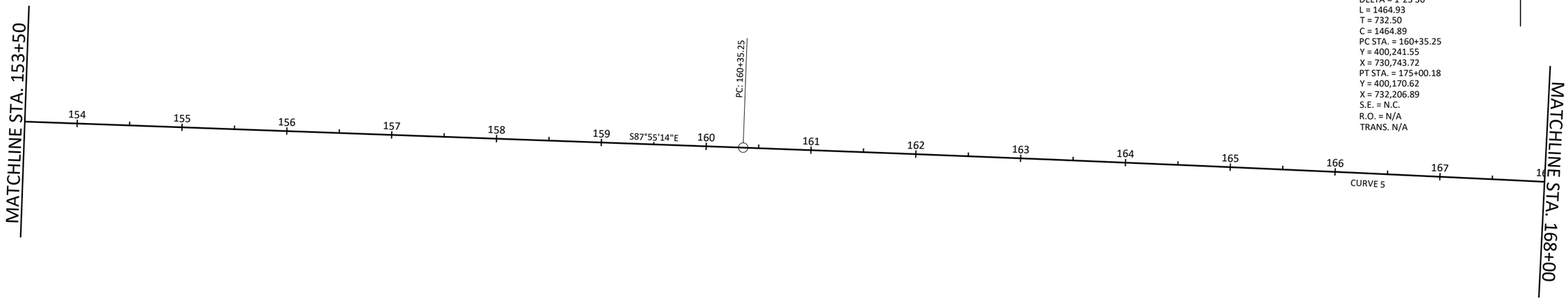


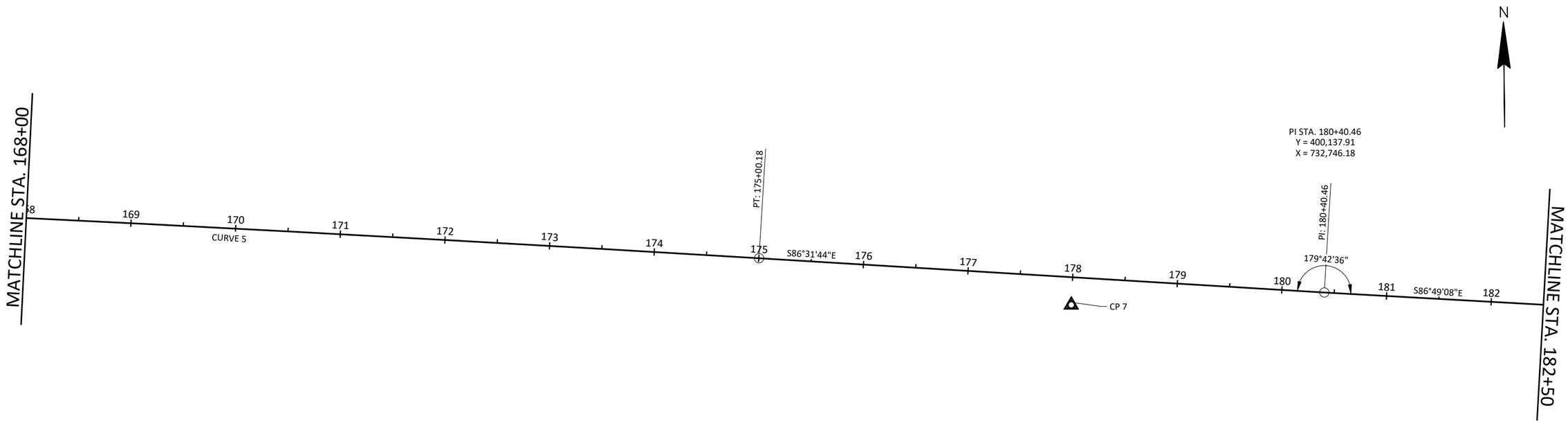
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 53	E





PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 54	E



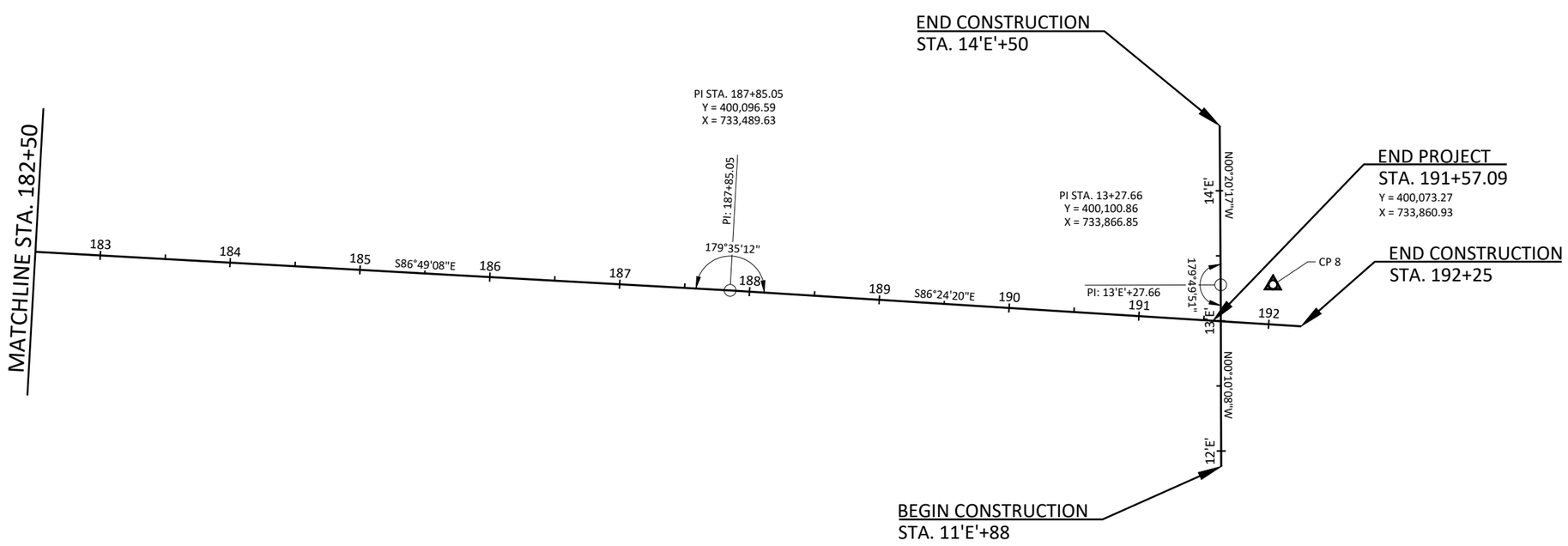


PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 55	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_ALIGNMENT DETAILS.DWG
LAYOUT NAME - Layout 6

PLOT DATE : 10/6/2023 8:21 AM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : ##########

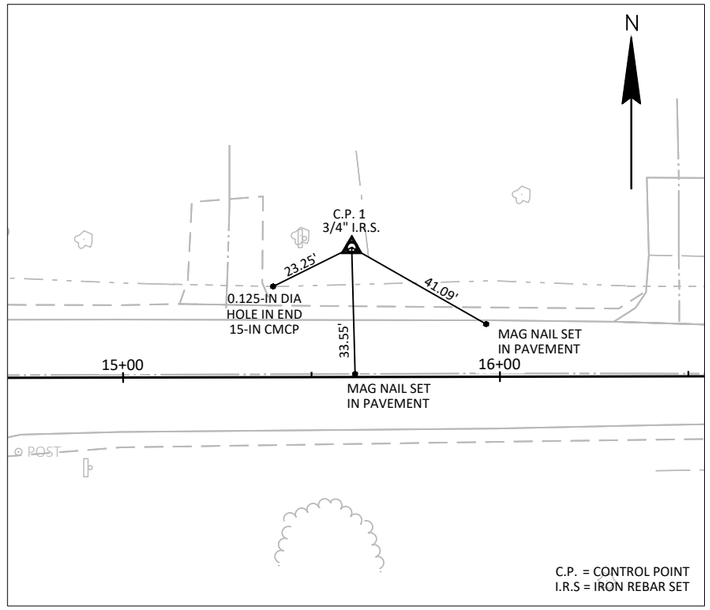
WISDOT/CADDS SHEET 44



2

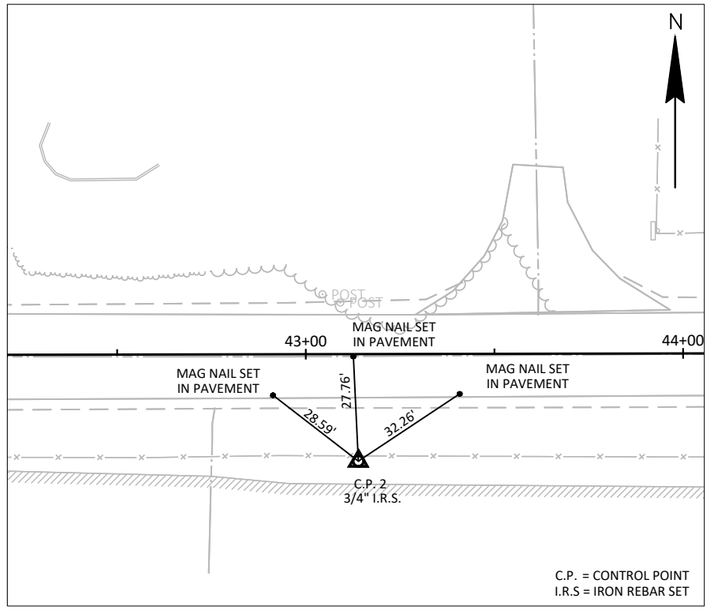
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET 56	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_ALIGNMENT DETAILS.DWG
LAYOUT NAME - Layout 7
PLOT DATE : 10/6/2023 8:21 AM
PLOT BY : DANIEL GERLING
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44



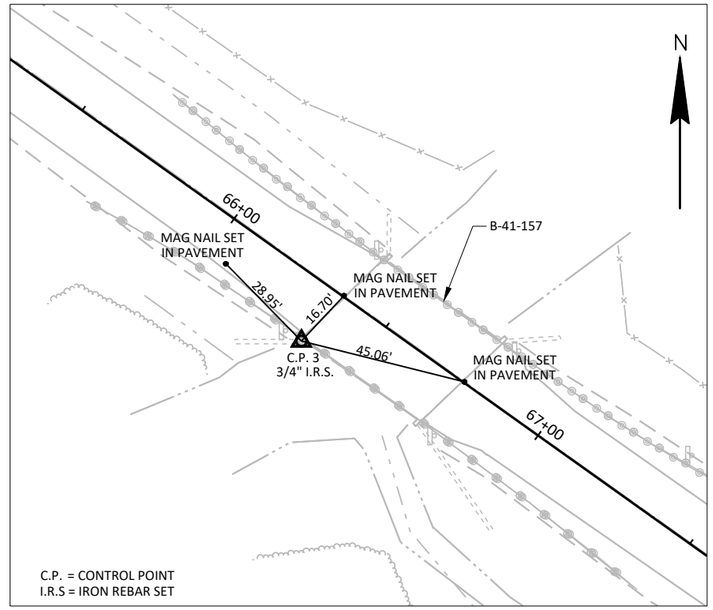
TIES TO C.P.#1

STA. 15+60.71, 34.38' LT
Y = 401,178.77
X = 716,483.02



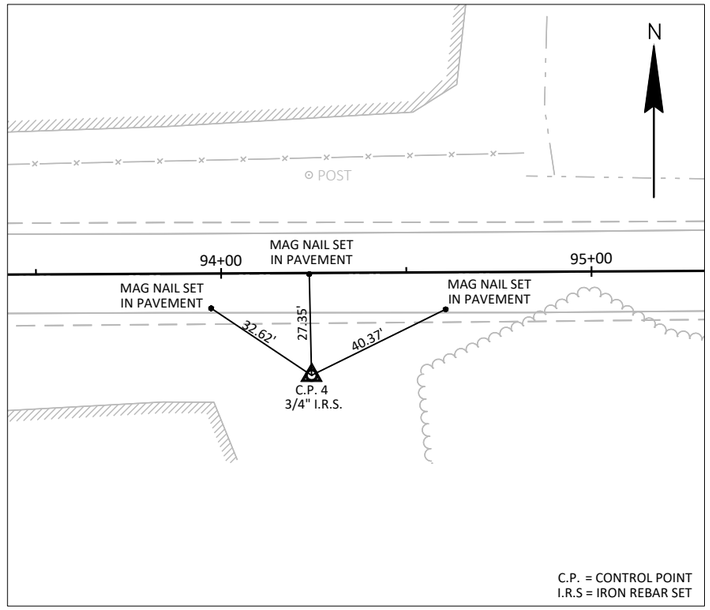
TIES TO C.P.#2

STA. 43+13.81, 28.37' RT
Y = 401,121.77
X = 719,236.31



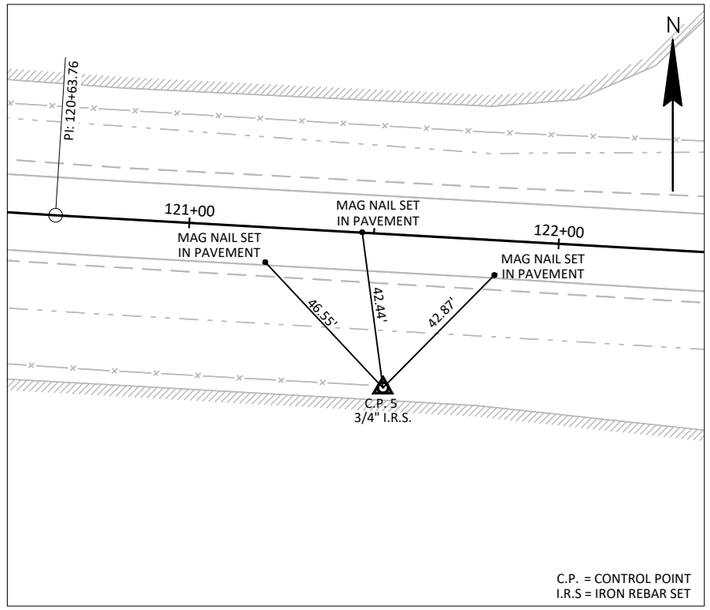
TIES TO C.P.#3

STA. 66+33.68, 16.21' RT
Y = 400,411.83
X = 721,479.42



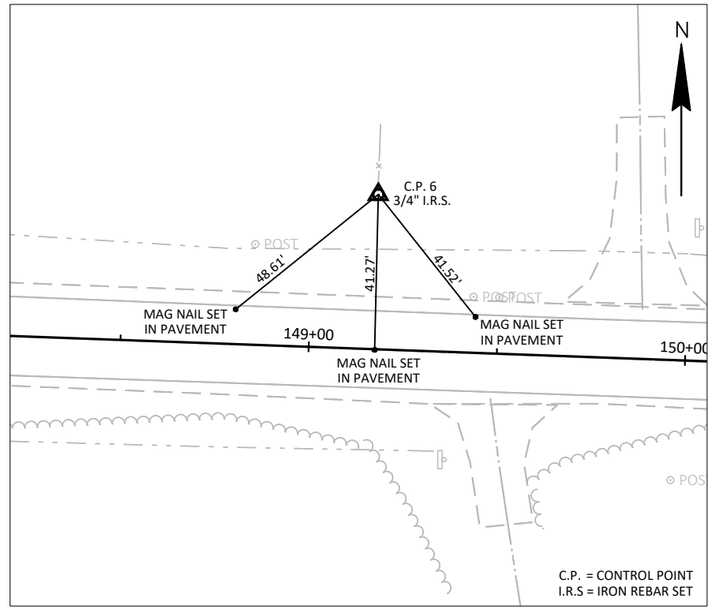
TIES TO C.P.#4

STA. 94+24.26, 27.67' LT
Y = 400,463.35
X = 724,139.83



TIES TO C.P.#5

STA. 121+54.76, 41.56' RT
Y = 400,380.78
X = 726,865.35

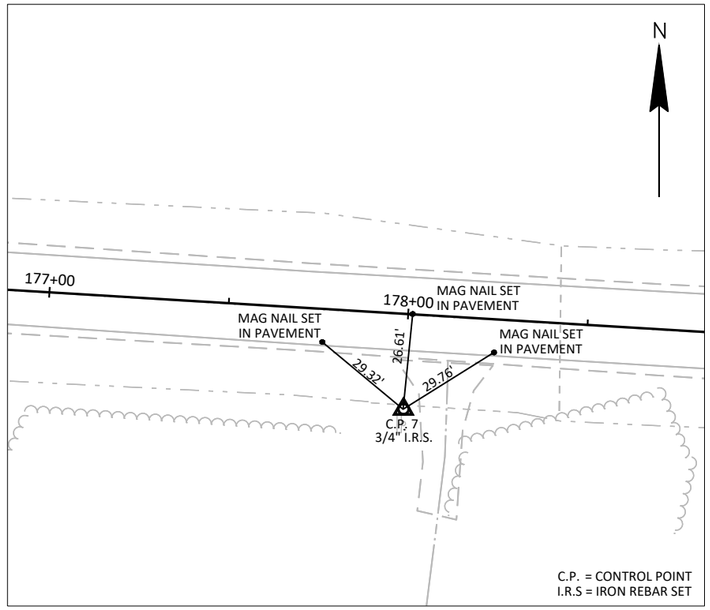


TIES TO C.P.#6

STA. 149+17.01, 41.08' LT
Y = 400,323.18
X = 729,627.71

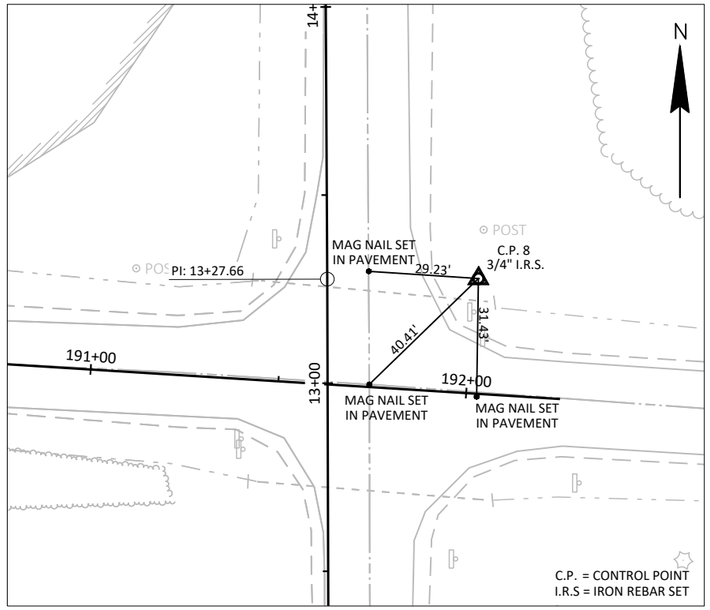
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CONTROL POINT TIES	SHEET 57	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_CONTROL POINTS.DWG
LAYOUT NAME - Layout 1
PLOT DATE : 10/6/2023 8:22 AM PLOT BY : DANIEL GERLING PLOT NAME : PLOT SCALE : ##########



TIES TO C.P.#7

STA. 178+00.28, 26.50' RT
Y = 400,125.99
X = 732,504.84



TIES TO C.P.#8

STA. 192+01.36, 30.59' LT
Y = 400,101.02
X = 733,907.04

2

Estimate Of Quantities

7373-00-74

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	117.000	117.000
0004	203.0100	Removing Small Pipe Culverts	EACH	32.000	32.000
0006	204.0110	Removing Asphaltic Surface	SY	457.000	457.000
0008	204.0165	Removing Guardrail	LF	515.000	515.000
0010	204.0180	Removing Delineators and Markers	EACH	24.000	24.000
0012	205.0100	Excavation Common	CY	40,470.000	40,470.000
0014	205.0400	Excavation Marsh	CY	1,035.000	1,035.000
0016	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 7373-00-74	EACH	1.000	1.000
0018	213.0100	Finishing Roadway (project) 01. 7373-00-74	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,250.000	3,250.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	46,900.000	46,900.000
0024	312.0110	Select Crushed Material	TON	11,860.000	11,860.000
0026	455.0605	Tack Coat	GAL	3,020.000	3,020.000
0028	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0030	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0032	460.2000	Incentive Density HMA Pavement	DOL	480.000	480.000
0034	460.2005	Incentive Density PWL HMA Pavement	DOL	9,151.000	9,151.000
0036	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	3,550.000	3,550.000
0038	460.2010	Incentive Air Voids HMA Pavement	DOL	12,700.000	12,700.000
0040	460.5224	HMA Pavement 4 LT 58-28 S	TON	12,700.000	12,700.000
0042	465.0315	Asphaltic Flumes	SY	34.000	34.000
0044	465.0565	Asphaltic Rumble Strips, Centerline Sinusoidal	LF	16,215.000	16,215.000
0046	521.0336	Apron Endwalls for Culvert Pipe Sloped Cross Drains Steel 36-Inch 4 to 1	EACH	2.000	2.000
0048	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	30.000	30.000
0050	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	1,072.000	1,072.000
0052	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	78.000	78.000
0054	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	56.000	56.000
0056	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	16.000	16.000
0058	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	4.000	4.000
0060	525.0115	Culvert Pipe Corrugated Aluminum 15-Inch	LF	48.000	48.000
0062	525.0118	Culvert Pipe Corrugated Aluminum 18-Inch	LF	878.000	878.000
0064	525.0124	Culvert Pipe Corrugated Aluminum 24-Inch	LF	300.000	300.000
0066	525.0315	Apron Endwalls for Culvert Pipe Aluminum 15-Inch	EACH	6.000	6.000
0068	525.0318	Apron Endwalls for Culvert Pipe Aluminum 18-Inch	EACH	60.000	60.000
0070	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	964.000	964.000
0072	606.0300	Riprap Heavy	CY	114.000	114.000
0074	614.2300	MGS Guardrail 3	LF	332.500	332.500
0076	614.2500	MGS Thrie Beam Transition	LF	150.000	150.000
0078	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	8.000
0080	616.0700.S	Fence Safety	LF	50.000	50.000
0082	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7373-00-74	EACH	1.000	1.000
0084	619.1000	Mobilization	EACH	1.000	1.000
0086	624.0100	Water	MGAL	760.000	760.000
0088	625.0100	Topsoil	SY	8,850.000	8,850.000
0090	625.0500	Salvaged Topsoil	SY	130,405.000	130,405.000
0092	627.0200	Mulching	SY	138,470.000	138,470.000
0094	628.1504	Silt Fence	LF	11,840.000	11,840.000
0096	628.1520	Silt Fence Maintenance	LF	71,040.000	71,040.000
0098	628.1905	Mobilizations Erosion Control	EACH	13.000	13.000
0100	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000

7373-00-74

Line	Item	Item Description	Unit	Total	Qty
0102	628.2004	Erosion Mat Class I Type B	SY	670.000	670.000
0104	628.2006	Erosion Mat Urban Class I Type A	SY	780.000	780.000
0106	628.7504	Temporary Ditch Checks	LF	1,270.000	1,270.000
0108	628.7515.S	Stone Ditch Checks	CY	3.000	3.000
0110	628.7555	Culvert Pipe Checks	EACH	186.000	186.000
0112	628.7570	Rock Bags	EACH	672.000	672.000
0114	629.0210	Fertilizer Type B	CWT	90.000	90.000
0116	630.0120	Seeding Mixture No. 20	LB	3,670.000	3,670.000
0118	630.0140	Seeding Mixture No. 40	LB	190.000	190.000
0120	630.0160	Seeding Mixture No. 60	LB	74.000	74.000
0122	630.0200	Seeding Temporary	LB	3,830.000	3,830.000
0124	630.0500	Seed Water	MGAL	3,320.000	3,320.000
0126	633.5100	Markers ROW	EACH	227.000	227.000
0128	633.5200	Markers Culvert End	EACH	32.000	32.000
0130	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000
0132	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	23.000	23.000
0134	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	13.000	13.000
0136	637.2210	Signs Type II Reflective H	SF	74.540	74.540
0138	637.2230	Signs Type II Reflective F	SF	148.180	148.180
0140	638.2602	Removing Signs Type II	EACH	36.000	36.000
0142	638.3000	Removing Small Sign Supports	EACH	29.000	29.000
0144	642.5001	Field Office Type B	EACH	1.000	1.000
0146	643.0300	Traffic Control Drums	DAY	915.000	915.000
0148	643.0420	Traffic Control Barricades Type III	DAY	2,200.000	2,200.000
0150	643.0705	Traffic Control Warning Lights Type A	DAY	4,395.000	4,395.000
0152	643.0900	Traffic Control Signs	DAY	4,210.000	4,210.000
0154	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0156	643.5000	Traffic Control	EACH	1.000	1.000
0158	645.0120	Geotextile Type HR	SY	286.000	286.000
0160	645.0130	Geotextile Type R	SY	40.000	40.000
0162	645.0135	Geotextile Type SR	SY	3,440.000	3,440.000
0164	646.1020	Marking Line Epoxy 4-Inch	LF	35,345.000	35,345.000
0166	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	11,508.000	11,508.000
0168	646.6120	Marking Stop Line Epoxy 18-Inch	LF	100.000	100.000
0170	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	35,345.000	35,345.000
0172	648.0100	Locating No-Passing Zones	MI	3.370	3.370
0174	650.4500	Construction Staking Subgrade	LF	18,527.000	18,527.000
0176	650.5000	Construction Staking Base	LF	18,527.000	18,527.000
0178	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	964.000	964.000
0180	650.6000	Construction Staking Pipe Culverts	EACH	16.000	16.000
0182	650.9911	Construction Staking Supplemental Control (project) 01. 7373-00-74	EACH	1.000	1.000
0184	650.9920	Construction Staking Slope Stakes	LF	18,527.000	18,527.000
0186	690.0150	Sawing Asphalt	LF	540.000	540.000
0188	740.0440	Incentive IRI Ride	DOL	13,460.000	13,460.000
0190	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	425.000	425.000
0192	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	625.000	625.000
0194	SPV.0060	Special 01. Reestablish Section Corner Monuments	EACH	5.000	5.000
0196	SPV.0060	Special 02. Mail Box Stand	EACH	4.000	4.000
0198	SPV.0090	Special 01. Steel Railing Type W Retrofit	LF	74.000	74.000
0200	SPV.0090	Special 02. PVC Pipe 4-Inch	LF	25.000	25.000

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

3

GRUBBING

STATION - STATION	LOCATION	GRUBBING 201.0205 (STA.)
14+00 - 15+00	MAINLINE, LT.	1
15+00 - 16+00	MAINLINE, RT.	1
23+00 - 24+00	MAINLINE, LT.	1
26+00 - 27+00	MAINLINE, LT.	1
31+00 - 33+00	MAINLINE, LT.	2
39+00 - 41+00	MAINLINE, LT.	2
42+00 - 44+00	MAINLINE, LT.	2
46+00 - 55+00	MAINLINE, LT.	9
51+00 - 52+00	MAINLINE, RT.	1
56+00 - 62+00	MAINLINE, LT.	6
60+00 - 61+00	MAINLINE, RT.	1
67+00 - 71+00	MAINLINE, RT.	4
73+00 - 74+00	MAINLINE, RT.	1
80+00 - 83+00	MAINLINE, RT.	3
84+00 - 85+00	MAINLINE, RT.	1
87+00 - 92+00	MAINLINE, RT.	5
94+00 - 96+00	MAINLINE, RT.	2
102+00 - 103+00	MAINLINE, LT.	1
103+00 - 105+00	MAINLINE, RT.	2
106+00 - 111+00	MAINLINE, LT.	5
106+00 - 109+00	MAINLINE, RT.	3
112+00 - 115+00	MAINLINE, RT.	3
113+00 - 116+00	MAINLINE, LT.	3
126+00 - 133+00	MAINLINE, RT.	7
136+00 - 143+00	MAINLINE, RT.	7
145+00 - 160+00	MAINLINE, RT.	15
165+00 - 171+00	MAINLINE, RT.	6
172+00 - 191+00	MAINLINE, RT.	19
10'C'+00 - 12'C'+00	FOREST AVE, LT.	2
12'D'+00 - 13'D'+00	FORTUNE RD, RT.	1
	TOTALS =	117

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	DESCRIPTION	203.0100 (EACH)
13+95	MAINLINE, LT.	15" CMCP, L = 28'	1
15+28	MAINLINE, LT.	15" CMCP, L = 27'	1
16+47	MAINLINE, LT.	15" CMCP, L = 27'	1
17+15	MAINLINE, RT.	15" CMCP, L = 22'	1
19+24	MAINLINE, RT.	15" CMCP, L = 41'	1
19+30	MAINLINE, LT.	15" CMCP, L = 29'	1
21+34	MAINLINE, LT.	15" CMCP, L = 32'	1
22+22	MAINLINE, RT.	15" CMCP, L = 31'	1
24+45	MAINLINE, LT.	15" CMCP, L = 52'	1
25+67	MAINLINE, LT.	15" CMCP, L = 27'	1
26+50	MAINLINE	36" CMCP, L = 53'	1
27+69	MAINLINE	18" CMCP, L = 40'	1
68+31	MAINLINE, LT.	24" RCCP, L = 14'	1
71+27	MAINLINE	30" CPCP, L = 58'	1
79+70	MAINLINE, LT.	15" CMCP, L = 14'	1
97+39	MAINLINE, LT.	24" CMCP, L = 22'	1
125+52	MAINLINE, LT.	12" CPCP, L = 50'	1
126+30	MAINLINE	18" CPCP, L = 50'	1
132+26	MAINLINE, RT.	24" CPCP, L = 24'	1
135+08	MAINLINE	24" CPCP, L = 42'	1
149+88	MAINLINE, LT.	18" CMCP, L = 24'	1
151+62	MAINLINE, RT.	18" CMCP, L = 25'	1
152+12	MAINLINE, LT.	18" CMCP, L = 35'	1
162+31	MAINLINE	24" CPCP, L = 52'	1
164+78	MAINLINE, RT.	24" CPCP, L = 52'	1
178+12	MAINLINE, RT.	18" CMCP, L = 41'	1
178+42	MAINLINE	24" CPCP, L = 46'	1
183+62	MAINLINE, RT.	24" CMCP, L = 19'	1
10'B'+48	FORMICA RD	18" CMCP, L = 58'	1
12'D'+66	FORTUNE RD	20" CMCP, L = 41'	1
12'E'+72	CTH N	24" CMCP, L = 39'	1
13'E'+26	CTH N	24"CMCP, L = 39'	1
		TOTAL =	32

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 (SY)
99+71-99+91	KEYER CREEK	67
12'E'+53 - 13'E'+45	CTH N	390
	TOTAL =	457

3

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 (LF)
65+65 - 66+34	MAINLINE, RT.	69
65+67 - 66+39	MAINLINE, LT.	72
66+72 - 67+44	MAINLINE, RT.	72
66+78 - 67+48	MAINLINE, LT.	70
99+23 - 100+39	MAINLINE, LT.	116
99+25 - 100+41	MAINLINE, RT.	116
	TOTALS =	515

REMOVING DELINEATORS AND MARKERS

STATION	LOCATION	204.0180 (EACH)
26+50	MAINLINE, LT. & RT.	2
27+69	MAINLINE, LT. & RT.	2
71+24	MAINLINE, LT. & RT.	2
126+30	MAINLINE, LT. & RT.	2
135+07	MAINLINE, LT. & RT.	2
151+62	MAINLINE, RT.	1
162+31	MAINLINE, LT. & RT.	2
178+42	MAINLINE, LT. & RT.	2
10'B'+48	FORMICA RD, LT. & RT.	2
10'B'+91	FORMICA RD, LT.	1
11'B'+21	FORMICA RD, LT.	1
11'B'+51	FORMICA RD, LT.	1
11'B'+83	FORMICA RD, LT.	1
12'E'+72	CTH N, LT. & RT.	2
13'E'+30	CTH N, LT.	1
	TOTAL =	24

EARTHWORK SUMMARY

CATEGORY	STATION - STATION	LOCATION	(1) 205.0100 COMMON EXCAVATION CUT (2) (CY)	(1) 205.0100 COMMON EXCAVATION EBS (8) (CY)	AVAILABLE MATERIAL (3) (CY)	205.0400 MARSH EXCAVATION (CY)	REDUCED MARSH IN FILL (5) (CY) FACTOR (0.60)	UNEXPANDED FILL (CY)	EXPANDED FILL (6) (CY) FACTOR (1.25)	MASS ORDINATE +/- (CY) (7)	WASTE (CY)
010	13+89 - 191+63	MAINLINE	35,738	3,600	35,738	847	506	18,034	21,936	13,802	13,802
	10'B'+17 - 12'B'+71	FORMICA RD	491	0	491	19	11	131	150	341	341
	10'C'+00 - 11'C'+73	FOREST AVE	330	0	330	114	68	382	393	-63	-63
	11'D'+60 - 12'D'+84	FORTUNE AVE	183	0	183	55	33	97	80	103	103
	11'E'+88 - 14'E'+50	CTH N	128	0	128	0	0	98	123	5	5
	SUBTOTALS =		36,870	3,600	36,870	1,035	618	18,742	22,682	14,188	14,188
	TOTALS =		40,470		36,870	1,035	618	18,742	22,682	14,188	14,188

NOTES:
1.) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.
2.) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
3.) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL.
4.) MARSH EXCAVATION. ITEM NUMBER 205.0400
5.) REDUCED MARSH THAT CAN BE USED IN FILL (EXCAVATION FACTOR = 0.60)
6.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
7.) THE MASS ORDINATE+ OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISON. MINUS QUANTITY INDICATES A . SHORTAGE OF MATERIAL WITHIN THE DIVISION
8.) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL. ITEM NUMBER 312.0110.

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)
13+89.89 - 63+50	MAINLINE	985	15,480
63+50 - 66+36.19	MAINLINE	20	700
66+75.13 - 99+71.78	MAINLINE	240	7,720
99+91.65 - 191+63.10	MAINLINE	668	21,170
10'B'+17 - 12'B'+70	FORMICA RD	53	790
10'C'+00 - 11'C'+73	FOREST AVE	29	470
11'D'+60 - 12'D'+84	FORTUNE RD	20	390
11'E'+88 - 14'E'+49	CTH N	37	180
-	P.E. / F.E.	1,198	-
	TOTALS =	3,250	46,900

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

3

HMA PAVEMENT

STATION - STATION	LOCATION	455.0605 TACK COAT (GAL)	460.5224 HMA PAVEMENT 4 LT 58-28 S (TON)	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS (EACH)	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY (EACH)
13+89.89 - 63+50	MAINLINE	810	3,845	-	-
63+50 - 66+36.19	MAINLINE	50	188	-	-
66+75.13 - 99+71.78	MAINLINE	530	2,081	-	-
99+71.78 - 99+91.65	MAINLINE	5	10	-	-
99+91.65 - 191+63.10	MAINLINE	1,485	5,827	-	-
10'B'+17 - 12'B'+70	FORMICA RD	45	209	-	-
10'C'+00 - 11'C'+73	FOREST AVE	35	134	-	-
11'D'+60 - 12'D'+84	FORTUNE RD	30	101	-	-
11'E'+88 - 14'E'+49	CTH N	30	107	-	-
-	P.E. / F.E.	-	198	-	-
-	PROJECT	-	-	1	2
	TOTALS =	3,020	12,700	1	2

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 (SY)
26+25	MAINLINE, LT.	10
44+00	MAINLINE, LT.	10
84+50	MAINLINE, RT.	7
85+40	MAINLINE, LT.	7
	TOTAL =	34

RUMBLE STRIPS

STATION - STATION	LOCATION	465.0565 ASPHALTIC RUMBLE STRIPS, CENTERLINE SINUSOIDAL (LF)
13+89 - 60+90	MAINLINE	4,701
64+90 - 66+11	MAINLINE	121
67+00 - 72+75	MAINLINE	525
76+25 - 99+47	MAINLINE	2,322
100+17 - 123+54	MAINLINE	2,337
127+54 - 189+63	MAINLINE	6,209
	TOTALS=	16,215

PWL MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR: MIXTURE ACCEPTANCE	QUALITY MANAGEMENT PROGRAM TO BE USED FOR: DENSITY ACCEPTANCE
11-FOOT DRIVING LANE	13+89.89 - 63+50	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	1,660	2.5-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
11-FOOT DRIVING LANE	13+89.89 - 63+50	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	1,160	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3-FOOT SHOULDER	13+89.89 - 63+50	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	603	2.5-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
3-FOOT SHOULDER	13+89.89 - 63+50	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	422	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
11-FOOT DRIVING LANE	63+50 - 66+36.19	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	71	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
11-FOOT DRIVING LANE	63+50 - 66+36.19	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	71	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3-FOOT SHOULDER	63+50 - 66+36.19	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	23	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
3-FOOT SHOULDER	63+50 - 66+36.19	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	23	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT. NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
11-FOOT DRIVING LANE	66+75.13 - 99+71.78	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	817	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
11-FOOT DRIVING LANE	66+75.13 - 99+71.78	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	817	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3-FOOT SHOULDER	66+75.13 - 99+71.78	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	223	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
3-FOOT SHOULDER	66+75.13 - 99+71.78	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	223	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT. NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
11-FOOT DRIVING LANE	99+71.78 - 99+91.65	STRUCTURE OVERLAY	TIMBER DECK	4 LT 58-28 S	7	VARIES 2-INCH - 3-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3-FOOT SHOULDER	99+71.78 - 99+91.68	STRUCTURE OVERLAY	TIMBER DECK	4 LT 58-28 S	3	VARIES 2-INCH - 3-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
11-FOOT DRIVING LANE	99+91.65 - 191+63.10	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	2,274	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
11-FOOT DRIVING LANE	99+91.65 - 191+63.10	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	2,274	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3-FOOT SHOULDER	99+91.65 - 191+63.10	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	640	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
3-FOOT SHOULDER	99+91.65 - 191+63.10	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	640	1.75-INCH	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCPTANCE TESTING BY THE DEPARTMENT: NOT ELIGIBLE FOR INCENTIVE OR DISINCENTIVE
SIDEROADS & DRIVEWAYS	VARIES	LOWER LAYER	BASE AGGREGATE	4 LT 58-28 S	491	2.5-INCH	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
SIDEROADS	VARIES	UPPER LAYER	4 LT 58-28 S	4 LT 58-28 S	257	1.75-INCH	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000

3

3

CULVERT PIPE

STATION	LOCATION	525.0115 CULVERT PIPE CORRUGATED ALUMINUM 15-INCH (LF)	525.0118 CULVERT PIPE CORRUGATED ALUMINUM 18-INCH (LF)	525.0124 CULVERT PIPE CORRUGATED ALUMINUM 24-INCH (LF)	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH (LF)	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH (LF)	522.0436 CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH (LF)	525.0315 APRON ENDWALLS FOR CULVERT PIPE ALUMINUM 15-INCH (EACH)	525.0318 APRON ENDWALLS FOR CULVERT PIPE ALUMINUM 18-INCH (EACH)	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH (EACH)	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH (EACH)	521.0336 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 36-INCH 4 TO 1 (EACH)	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 (EACH)	628.7555 CULVERT PIPE CHECKS (EACH)	633.5200 MARKERS CULVERT END (EACH)	650.6000 CONSTRUCTION STAKING CULVERT PIPES (EACH)
13+96	MAINLINE, LT.	-	22	-	-	-	-	-	2	-	-	-	-	2	-	-
14+38	MAINLINE, RT.	24	-	-	-	-	-	2	-	-	-	-	-	2	-	-
15+28	MAINLINE, LT.	-	28	-	-	-	-	-	2	-	-	-	-	2	-	-
16+47	MAINLINE, LT.	-	26	-	-	-	-	-	2	-	-	-	-	2	-	-
17+15	MAINLINE, RT.	-	28	-	-	-	-	-	2	-	-	-	-	2	-	-
19+24	MAINLINE, RT.	-	42	-	-	-	-	-	2	-	-	-	-	2	-	-
19+32	MAINLINE, LT.	-	28	-	-	-	-	-	2	-	-	-	-	2	-	-
21+28	MAINLINE, LT.	-	24	-	-	-	-	-	2	-	-	-	-	2	-	-
22+23	MAINLINE, RT.	-	30	-	-	-	-	-	2	-	-	-	-	2	-	-
23+78	MAINLINE	-	-		60	-	-	-	-	2	-	-	-	3	2	1
26+25	MAINLINE, RT.	-	22	-	-	-	-	-	2	-	-	-	-	2	-	-
26+50	MAINLINE	-	-	-	-	-	56	-	-	-	-	2	-	7	2	1
26+82	MAINLINE, LT.	-	36	-	-	-	-	-	2	-	-	-	-	2	-	-
28+00	MAINLINE	-	-	-	48	-	-	-	-	2	-	-		3	2	1
32+84	MAINLINE, LT.	-	16	-	-	-	-	-	2	-	-	-	-	2	-	-
38+02	MAINLINE, LT.	-	22	-	-	-	-	-	2	-	-	-	-	2	-	-
39+40	MAINLINE, LT.	-	28	-	-	-	-	-	2	-	-	-	-	2	-	-
42+13	MAINLINE, LT.	-	-	-	328	-	-	-	-	-	-	-	2	2	2	1
42+75	MAINLINE, RT.	-	36	-	-	-	-	-	2	-	-	-	-	2	-	-
46+48	MAINLINE, LT.	-	34	-	-	-	-	-	2	-	-	-	-	2	-	-
55+36	MAINLINE, LT.	-	-	38	-	-	-	-	-	-	-	-	2	3	-	-
55+67	MAINLINE, RT.	-	-	34	-	-	-	-	-	-	-	-	2	3	-	-
61+03	MAINLINE, LT.	-	-	20	-	-	-	-	-	-	-	-	2	3	-	-
71+24	MAINLINE	-	-	-	-	40	-	-	-	-	2	-	-	5	2	1
79+65	MAINLINE, LT.	-	22	-	-	-	-	-	2	-	-	-	-	2	-	-
80+11	MAINLINE, RT.	-	16	-	-	-	-	-	2	-	-	-	-	2	-	-
81+38	MAINLINE, RT.	-	22	-	-	-	-	-	2	-	-	-	-	2	-	-
82+44	MAINLINE, RT.	-	18	-	-	-	-	-	2	-	-	-	-	2	-	-
82+44	MAINLINE, LT.	24	-	-	-	-	-	2	-	-	-	-	-	2	-	-
86+14	MAINLINE, LT.	-	18	-	-	-	-	-	2	-	-	-	-	2	-	-
93+50	MAINLINE, RT.	-	42	-	-	-	-	2	-	-	-	-	-	2	-	-
94+32	MAINLINE	-	-	-	56	-	-	-	-	2	-	-	-	3	2	1
97+40	MAINLINE, LT.	-	-	28	-	-	-	-	-	-	-	-	2	3	-	-
108+75	MAINLINE, RT.	-	-	26	-	-	-	-	-	-	-	-	2	3	-	-
120+00	MAINLINE, RT.	-	-	30	-	-	-	-	-	-	-	-	2	3	-	-
122+00	MAINLINE	-	-	-	-	38	-	-	-	-	2	-	-	5	2	1
122+72	MAINLINE, LT.	-	34	-	-	-	-	-	2	-	-	-	-	2	-	-
125+53	MAINLINE, LT.	-	24	-	-	-	-	-	2	-	-	-	-	2	-	-
132+26	MAINLINE, RT.	-	-	24	-	-	-	-	-	-	-	-	2	3	-	-
135+07	MAINLINE	-	-	-	42	-	-	-	-	2	-	-	-	3	2	1
146+00	MAINLINE, LT.	-	22	-	-	-	-	-	2	-	-	-	-	2	-	-
146+00	MAINLINE, RT.	-	42	-	-	-	-	-	2	-	-	-	-	2	-	-
149+47	MAINLINE, RT.	-	56	-	-	-	-	-	2	-	-	-	-	2	-	-
151+63	MAINLINE, RT.	-	34	-	-	-	-	-	2	-	-	-	-	2	-	-
152+13	MAINLINE, LT.	-	16	-	-	-	-	-	2	-	-	-	-	2	-	-
162+75	MAINLINE	-	-	-	58	-	-	-	-	2	-	-	-	3	2	1
164+77	MAINLINE, RT.	-	-	46	-	-	-	-	-	-	-	-	2	3	-	-
165+23	MAINLINE, LT.	-	34	-	-	-	-	-	2	-	-	-	-	2	-	-
168+53	MAINLINE, LT.	-	20	-	-	-	-	-	2	-	-	-	-	2	-	-
172+55	MAINLINE, LT.	-	36	-	-	-	-	-	2	-	-	-	-	2	-	-
178+12	MAINLINE, RT.	-	-	34	-	-	-	-	-	-	-	-	2	3	-	-
178+50	MAINLINE	-	-	-	44	-	-	-	-	2	-	-	-	3	2	1
183+61	MAINLINE, RT.	-	-	20		-	-	-	-	-	-	-	2	3	-	-
10'B'+35*	FORMICA RD	-	-	-	72	-	-	-	-	-	-	-	2	3	2	1
10'B'+39*	FORMICA RD	-	-	-	64	-	-	-	-	-	-	-	2	3	2	1
11'C'+55	FOREST AVE	-	-	-	92	-	-	-	-	-	-	-	2	3	2	1
12'D'+69*	FORTUNE RD	-	-	-	74	-	-	-	-	-	-	-	2	3	2	1
12'E'+66	CTH N	-	-	-	64	-	-	-	-	2	-	-	-	3	2	1
13'E'+31	CTH N	-	-	-	70	-	-	-	-	2	-	-	-	3	2	1
	UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-
	TOTALS =	48	878	300	1072	78	56	6	60	16	4	2	30	186	32	16

MINIMUM THICKNESS (INCHES)	
PIPE SIZE	ALUMINUM
15-INCH	0.060
18-INCH	0.060
24-INCH	0.075

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

3

CONCRETE CURB & GUTTER

STATION-STATION	LOCATION	601.0415 6-INCH SLOPED 30-INCH TYPE J (LF)	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)
24+01 - 26+25	MAINLINE, LT.	224	224
40+50 - 44+00	MAINLINE, LT.	350	350
83+00 - 85+40	MAINLINE, LT.	240	240
83+00 - 84+50	MAINLINE, RT.	150	150
	TOTALS =	964	964

RIPRAP & GEOTEXTILE

STATION	LOCATION	606.0300 RIPRAP HEAVY (CY)	645.0120 GEOTEXTILE TYPE HR (SY)
24+06	MAINLINE, RT.	10	25
26+50	MAINLINE, RT.	8	20
43+81	MAINLINE, LT.	6	16
94+60	MAINLINE, RT.	10	25
135+07	MAINLINE, LT.	10	25
178+50	MAINLINE, RT.	10	25
10'B'+37	FORMICA RD, RT.	14	33
11'C'+40	FOREST AVE, LT.	6	16
12'D'+73	FORTUNE RD, LT.	6	16
12'E'+69	CTH N, RT.	6	16
13'E'+19	CTH N, RT.	6	16
	UNDISTRIBUTED	22	53
	TOTALS =	114	286

FENCE SAFETY

STATION - STATION	LOCATION	616.0700.S LF	REMARKS
61+00 - 61+50	MAINLINE, LT.	50	INSTALL 1' WITHIN PROPOSED R/W
	TOTALS =	50	

MGS GUARDRAIL

STATION-STATION	LOCATION	614.2300 MGS GUARDRAIL 3 (LF)	614.2500 MGS THRIE BEAM TRANSITION (LF)	614.2610 MGS GUARDRAIL TERMINAL EAT (EACH)
64+95 - 65+48	MAINLINE, RT.	-	-	1
65+48 - 65+98	MAINLINE, LT.	50	-	-
65+98 - 66+35	MAINLINE, RT.	-	37.5	-
65+50 - 66+03	MAINLINE, LT.	-	-	1
66+03 - 66+41	MAINLINE, RT.	-	37.5	-
66+71 - 67+08	MAINLINE, RT.	-	37.5	-
66+76 - 67+14	MAINLINE, LT.	-	37.5	-
67+08 - 67+21	MAINLINE, LT.	12.5	-	-
67+14 - 67+64	MAINLINE, LT.	50	-	-
67+21 - 67+74	MAINLINE, RT.	-	-	1
67+64 - 68+17	MAINLINE, RT.	-	-	1
98+46 - 98+99	MAINLINE, LT.	-	-	1
98+96 - 99+49	MAINLINE, RT.	-	-	1
98+99 - 100+03	MAINLINE, RT.	103.75	-	-
99+49 - 100+65		116.25	-	-
100+03 - 100+56	MAINLINE, LT.	-	-	1
100+65 - 101+18	MAINLINE, LT.	-	-	1
	TOTALS =	332.5	150	8

WATER

LOCATION	624.0100 (MGAL)
PROJECT	760
TOTALS =	760

FINISHING ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL (SY)	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0120 SEEDING MIXTURE NO. 20 (LB)	630.0140 SEEDING MIXTURE NO. 40 (LB)	**630.0160 SEEDING MIXTURE NO. 60 (LB)	630.0200 SEEDING TEMPORARY (LB)	630.0500 SEED WATER (MGAL)
13+89.89 - 191+63.10	MAINLINE	7,080	104,300	110,750	72.0	2936	153	59	-	2,655
UNDISTRIBUTED	PROJECT	1,770	26,105	27,720	18.0	734	37	15	3830	665
	TOTALS=	8,850	130,405	138,470	90.0	3670	190	74	3830	3,320

**NOTE: USE SEED MIXTURE NO. 60 IN AREAS ADJACENT TO EXISTING WETLANDS. DO NOT USE FERTILIZER IN WETLAND AREAS.

MOBILIZATION EROSION CONTROL

PROJECT	628.1905 MOBILIZATION EROSION CONTROL (EACH)	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL (EACH)
7373-00-74	13	8
TOTALS =	13	8

SILT FENCE

STATION - STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)
23+00 - 25+50	MAINLINE, RT.	267	1,602
26+75 - 29+00	MAINLINE, RT.	234	1,404
29+00 - 33+00	MAINLINE, RT.	382	2,292
33+00 - 33+50	MAINLINE, RT.	37	222
33+50 - 39+50	MAINLINE, RT.	604	3,624
63+50 - 66+50	MAINLINE, LT.	329	1,974
63+10 - 66+25	MAINLINE, RT.	335	2,010
66+80 -68+25	MAINLINE, LT.	170	1,020
66+75 - 73+50	MAINLINE, RT.	764	4,584
68+40 - 79+00	MAINLINE, LT.	1055	6,330
95+25 - 99+60	MAINLINE, RT.	463	2,778
97+50 - 99+75	MAINLINE, LT.	244	1,464
99+90 - 103+00	MAINLINE, RT.	334	2,004
100+00 - 103+00	MAINLINE, LT.	325	1,950
124+75 - 125+50	MAINLINE, LT.	67	402
125+50 - 128+50	MAINLINE, LT.	291	1,746
134+00 - 136+25	MAINLINE, LT.	239	1,434
133+10 - 137+00	MAINLINE, RT.	412	2,472
139+50 - 140+50	MAINLINE, RT.	100	600
141+50 - 146+00	MAINLINE, LT.	439	2,634
146+00 - 149+80	MAINLINE, LT.	370	2,220
150+00 - 152+00	MAINLINE, LT.	210	1,260
152+25 - 163+50	MAINLINE, LT.	1134	6,804
172+80 - 177+50	MAINLINE, LT.	463	2,778
10'C'+00 - 11'C'+50	MAINLINE, LT.	100	600
10'C'+50 - 11'C'+00	MAINLINE, RT.	105	630
	UNDISTIBUTED	2,367	14,202
	TOTALS =	11,840	71,040

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

3

SELECT CRUSHED MATERIAL & GEOTEXTILE TYPE SR

STATION - STATION	LOCATION	312.0110 (TON)	645.0135 (SY)
13+89.89 - 191+57.09	MAINLINE - MARSH EXC BACKFILL	3,310	3,440
13+89.89 - 191+57.09	MAINLINE - EBS EXC BACKFILL	8,550	-
	TOTALS =	11,860	3,440

EROSION MAT

STATION - STATION	LOCATION	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2004 EROSION MAT CLASS I TYPE B SY
66+84 - 67+50	MAINLINE, LT.	91	-
66+84 - 67+50	MAINLINE, RT.	134	-
98+75 - 99+72	MAINLINE, RT.	126	-
99+15 - 99+75	MAINLINE, LT.	103	-
99+92 - 100+50	MAINLINE, LT.	171	-
	TREATMENT AT PE/FE CULVERTS	-	540
	UNDISTRIBUTED	155	130
	TOTALS =	780	670

CONSTRUCTION STAKING

STATION - STATION	LOCATION	CONSTRUCTION STAKING 650.4500 SUBGRADE (LF)	650.5000 BASE (LF)	650.9911 SUPPLEMENTAL CONTROL (01. 7373-00-74) (EACH)	650.9920 SLOPE STAKES (LF)
13+89.89 - 66+36.09	MAINLINE	5,246	5,246	-	5,246
66+75.13 - 99+71.78	MAINLINE	3,297	3,297		3,297
99+91.65 - 191+63.10	MAINLINE	9,172	9,172		9,172
10'B'+17 - 12'B'+70	FORMICA RD	253	253	-	253
10'C'+00 - 11'C'+73	FOREST AVE	173	173	-	173
11'D'+60 - 12'D'+84	FORTUNE RD	124	124	-	124
11'E'+88 - 14'E'+50	CTH N	262	262	-	262
	PROJECT	-	-	1	-
	TOTALS =	18,527	18,527	1	18,527

PAVEMENT MARKING

STATION - STATION	LOCATION	DESCRIPTION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW SOLID (LF)	WHITE SOLID (LF)	WHITE DASHED (LF)	646.1040 MARKING LINE EPOXY WET REF 4-INCH YELLOW SOLID (LF)	YELLOW DASHED (LF)	646.6120 MARKING STOP LINE EPOXY 18-INCH (LF)	646.6464 COLD WEATHER MARKING EPOXY 4-INCH (LF)
13+89.89 - 54+00	MAINLINE	DASHED YELLOW	-	-	-	-	1,005	-	-
54+00 - 60+50	MAINLINE	SOLID EB / DASHED WB	-	-	-	650	165	-	-
60+50 - 80+00	MAINLINE	DOUBLE YELLOW	-	-	-	3,900	-	-	-
80+00 - 92+00	MAINLINE	DASHED EB / SOLID WB	-	-	-	1,200	300	-	-
92+00 - 100+00	MAINLINE	DASHED YELLOW	-	-	-	-	200	-	-
100+00 - 105+00	MAINLINE	SOLID EB / DASHED WB	-	-	-	500	125	-	-
105+00 - 111+00	MAINLINE	DASHED YELLOW	-	-	-	-	150	-	-
111+00 - 117+00	MAINLINE	DASHED EB / SOLID WB	-	-	-	600	150	-	-
117+00 - 184+50	MAINLINE	DASHED YELLOW	-	-	-	-	1,688	-	-
184+50 - 191+50	MAINLINE	SOLID EB / DASHED WB	-	-	-	700	175	-	-
13+89.89 - 62+10	MAINLINE, LT.	WHITE EDGELINE	-	4,825	-	-	-	-	4,825
62+10 - 64+00	MAINLINE, LT.	WHITE EDGELINE	-	-	50	-	-	-	50
64+00 - 191+50	MAINLINE, LT.	WHITE EDGELINE	-	12,750	-	-	-	-	12,750
13+89.89 - 73+00	MAINLINE, RT.	WHITE EDGELINE	-	5,915	-	-	-	-	5,915
73+00 - 74+90	MAINLINE, RT.	WHITE EDGELINE	-	-	50	-	-	-	50
74+90 - 124+25	MAINLINE, RT.	WHITE EDGELINE	-	4,935	-	-	-	-	4,935
124+25 - 125+00	MAINLINE, RT.	WHITE EDGELINE	-	-	20	-	-	-	20
126+10 - 191+50	MAINLINE, RT.	WHITE EDGELINE	-	6,540	-	-	-	-	6,540
12'E'+53 - 13'E'+45	CTH N	DOUBLE YELLOW	190	-	-	-	-	-	190
11'E'+88 - 12'E'+38	CTH N, LT	WHITE EDGELINE	-	50	-	-	-	-	50
13'E'+74 - 14'E'+49.04	CTH N, LT	WHITE EDGELINE	-	-	20	-	-	-	20
191+50	MAINLINE, RT.	STOP BAR	-	-	-	-	-	25	-
10'B'+25	FORMICA RD	STOP BAR	-	-	-	-	-	25	-
11'C'+65	FOREST AVE	STOP BAR	-	-	-	-	-	25	-
12'D'+75	FORTUNE RD	STOP BAR	-	-	-	-	-	25	-
		SUBTOTALS =	190	35,015	140	7,550	3,958	100	35,345
		TOTALS=		35,345			11,508	100	35,345

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 SAWING ASPHALT (LF)
13+89.89	MAINLINE	40
14+32	MAINLINE, RT.	12
16+47	MAINLINE, LT.	15
22+22	MAINLINE, RT.	20
24+32	MAINLINE, LT.	16
25+67	MAINLINE, LT.	10
38+03	MAINLINE, LT.	12
39+40	MAINLINE, LT.	14
40+64	MAINLINE, LT.	22
43+63	MAINLINE, LT.	14
55+36	MAINLINE, LT.	10
84+57	MAINLINE, LT.	22
114+51	MAINLINE, RT.	10
122+70	MAINLINE, LT.	10
164+78	MAINLINE, RT.	12
12'B'+70	FORMICA RD	24
10'C'+00	FOREST AVE	20
11'D'+60	FORTUNE RD	20
11'E'+88 - 14'E'+49	CTH N	237
	TOTAL=	540

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 (LF)
16+50	MAINLINE, RT	10
18+50	MAINLINE, LT.	10
21+50	MAINLINE, RT	10
27+50	MAINLINE, LT.	10
29+50	MAINLINE, LT.	10
34+00	MAINLINE, LT.	10
36+00	MAINLINE, LT.	10
41+00	MAINLINE, RT	10
45+00	MAINLINE, LT.	10
45+00	MAINLINE, RT	10
47+00	MAINLINE, RT	10
49+00	MAINLINE, LT.	10
49+00	MAINLINE, RT	10
51+00	MAINLINE, LT.	10
51+00	MAINLINE, RT	10
53+00	MAINLINE, LT.	10
53+00	MAINLINE, RT	10
55+00	MAINLINE, LT.	10
55+00	MAINLINE, RT	10
57+00	MAINLINE, LT.	10
57+00	MAINLINE, RT	10
59+00	MAINLINE, LT.	10
59+00	MAINLINE, RT	10
61+00	MAINLINE, RT	10
63+00	MAINLINE, RT	10
65+00	MAINLINE, LT.	10
65+00	MAINLINE, RT	10
66+25	MAINLINE, RT	10
66+30	MAINLINE, LT.	10
75+00	MAINLINE, RT	10
77+00	MAINLINE, RT	10
79+00	MAINLINE, RT	10
80+75	MAINLINE, LT.	10
86+00	MAINLINE, RT	10
87+00	MAINLINE, LT.	10
	SUBTOTAL =	350

STATION	LOCATION	628.7504 (LF)
88+00	MAINLINE, RT	10
89+00	MAINLINE, LT.	10
90+00	MAINLINE, RT	10
91+00	MAINLINE, LT.	10
92+00	MAINLINE, RT	10
93+00	MAINLINE, LT.	10
94+00	MAINLINE, RT	10
96+00	MAINLINE, LT.	10
96+00	MAINLINE, RT	10
101+00	MAINLINE, LT.	10
101+00	MAINLINE, RT	10
103+00	MAINLINE, LT.	10
103+00	MAINLINE, RT	10
105+00	MAINLINE, LT.	10
105+00	MAINLINE, RT	10
107+00	MAINLINE, LT.	10
107+00	MAINLINE, RT	10
109+00	MAINLINE, LT.	10
109+00	MAINLINE, RT	10
111+00	MAINLINE, LT.	10
111+00	MAINLINE, RT	10
113+00	MAINLINE, LT.	10
113+00	MAINLINE, RT	10
115+00	MAINLINE, LT.	10
115+00	MAINLINE, RT	10
117+00	MAINLINE, LT.	10
117+00	MAINLINE, RT	10
119+00	MAINLINE, LT.	10
119+00	MAINLINE, RT	10
121+00	MAINLINE, LT.	10
121+00	MAINLINE, RT	10
123+00	MAINLINE, RT	10
124+00	MAINLINE, LT.	10
124+50	MAINLINE, RT	10
127+00	MAINLINE, LT.	10
	SUBTOTAL =	350

STATION	LOCATION	628.7504 (LF)
127+00	MAINLINE, RT	10
129+00	MAINLINE, LT.	10
129+00	MAINLINE, RT	10
130+50	MAINLINE, LT.	10
134+00	MAINLINE, LT.	10
134+00	MAINLINE, RT	10
136+00	MAINLINE, LT.	10
138+00	MAINLINE, LT.	10
138+00	MAINLINE, RT	10
140+00	MAINLINE, LT.	10
142+00	MAINLINE, LT.	10
142+00	MAINLINE, RT	10
144+00	MAINLINE, LT.	10
144+00	MAINLINE, RT	10
145+50	MAINLINE, LT.	10
145+50	MAINLINE, RT	10
148+00	MAINLINE, RT	10
150+75	MAINLINE, RT	10
151+00	MAINLINE, LT.	10
153+00	MAINLINE, LT.	10
153+00	MAINLINE, RT	10
155+00	MAINLINE, LT.	10
155+00	MAINLINE, RT	10
157+00	MAINLINE, LT.	10
157+00	MAINLINE, RT	10
159+00	MAINLINE, LT.	10
159+00	MAINLINE, RT	10
161+00	MAINLINE, LT.	10
161+00	MAINLINE, RT	10
163+00	MAINLINE, RT	10
164+00	MAINLINE, LT.	10
167+00	MAINLINE, RT	10
169+00	MAINLINE, RT	10
170+00	MAINLINE, LT.	10
171+00	MAINLINE, RT.	10
	SUBTOTAL =	350

STATION	LOCATION	628.7504 (LF)
173+00	MAINLINE, LT.	10
173+00	MAINLINE, RT.	10
177+00	MAINLINE, LT.	10
177+00	MAINLINE, RT.	10
180+00	MAINLINE, LT.	10
180+00	MAINLINE, RT.	10
182+00	MAINLINE, LT.	10
182+00	MAINLINE, RT	10
184+50	MAINLINE, RT	10
186+00	MAINLINE, LT.	10
186+00	MAINLINE, RT	10
188+00	MAINLINE, LT.	10
188+00	MAINLINE, RT	10
190+50	MAINLINE, RT	10
11'B'+00	FORMICA RD, LT	10
11'B'+00	FORMICA RD, RT	10
12'B'+00	FORMICA RD, LT	10
12'B'+00	FORMICA RD, RT	10
12'B'+70	FORMICA RD, LT	10
12'B'+70	FORMICA RD, RT	10
11'C'+00	FOREST AVE, RT	10
14'E'+50	CTH N, LT	10
	SUBTOTAL =	220
	TOTAL =	1270

ROCK BAGS

STATION	LOCATION	628.7570 (EACH)
24+50	MAINLINE, RT	17
28+50	MAINLINE, RT	17
31+00	MAINLINE, RT	17
36+00	MAINLINE, RT	17
38+50	MAINLINE, RT	17
65+00	MAINLINE, RT	17
65+00	MAINLINE, LT	17
70+00	MAINLINE, RT	17
73+00	MAINLINE, RT	17
67+50	MAINLINE, LT	17
71+50	MAINLINE, LT	17
74+50	MAINLINE, LT	17
77+50	MAINLINE, LT	17
98+00	MAINLINE, RT	17
99+00	MAINLINE, LT	17
102+00	MAINLINE, RT	17
102+00	MAINLINE, LT	17
127+00	MAINLINE, LT	17
135+50	MAINLINE, RT	17
135+50	MAINLINE, LT	17
140+00	MAINLINE, RT	17
143+50	MAINLINE, LT	17
148+00	MAINLINE, LT	17
151+00	MAINLINE, LT	17
154+00	MAINLINE, LT	17
157+00	MAINLINE, LT	17
160+00	MAINLINE, LT	17
163+00	MAINLINE, LT	17
175+00	MAINLINE, LT	17
10'C'+50	FOREST AVE, LT	17
10'C'+75	FOREST AVE, RT	17
	UNDISTRIBUTED	145
	TOTAL =	672

STONE DITCH CHECKS

STATION	LOCATION	*628.7515.S STONE DITCH CHECKS (CY)	645.0130 GEOTEXTILE TYPE R (SY)
26+25	MAINLINE, LT	0.6	8
43+30	MAINLINE, LT	0.6	8
84+50	MAINLINE, RT	0.6	8
85+40	MAINLINE, LT	0.6	8
-	UNDISTRIBUTED	0.6	8
	TOTAL =	3.0	40

*TEMPORARY STONE DITCH CHECKS

TRAFFIC CONTROL

LOCATION	643.0300 DRUMS (DAY)	643.0420 BARRICADES TYPE III (DAY)	643.0705 WARNING LIGHTS TYPE A (DAY)	643.0900 SIGNS (DAY)	643.1050 SIGNS PCMS (DAY)	643.5000 TRAFFIC CONTROL (EACH)
MAINLINE	-	1102	2199	1810	-	-
FORBES RD	-	-	-	200	-	-
FORMICA RD	-	366	732	600	-	-
FOREST AVE	-	366	732	600	-	-
FORTUNE RD	-	366	732	600	-	-
CTH N	-	-	-	400	-	-
PROJECT	915	-	-	-	14	1
TOTALS =	915	2200	4395	4210	14	1

LOCATING NO-PASSING ZONES

STATION	LOCATION	648.0100 (MI)
13+89 - 191+57	MAINLINE	3.37
	TOTAL =	3.37

3

PERMANENT SIGNING

SIGN NUMBER	APPROX. STATION	LOCATION	POSITIION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	POSTS WOOD 4X6-INCH 634.0614 14 FT (EACH)	634.0616 16 FT (EACH)	634.0618 18 FT (EACH)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS
1-00R	13+90	MAINLINE	RIGHT	R12-1	WEIGHT LIMIT 40 TONS	40	-	-	-	-	-	-	1	1	-
1-01	14+00	MAINLINE	RIGHT	R12-1	WEIGHT LIMIT 40 TONS	40	24X30	5.00	-	-	1	-	-	-	-
1-02R	14+90	MAINLINE	RIGHT	R2-1	SPEED LIMIT	45	-	-	-	-	-	-	1	1	-
1-03	15+00	MAINLINE	RIGHT	R2-1	SPEED LIMIT	45	24X30	5.00	-	-	1	-	-	-	-
3-00R	28+75	MAINLINE	RIGHT		END SPEED ZONE		-	-	-	-	-	-	1	1	-
3-01R	28+75	MAINLINE	LEFT	R2-1	SPEED LIMIT	45	-	-	-	-	-	-	1	1	-
3-02	28+85	MAINLINE	LEFT	R2-1	SPEED LIMIT	45	24X30	5.00	-	-	1	-	-	-	-
3-03	28+85	MAINLINE	RIGHT	R2-1	SPEED LIMIT	55	24X30	5.00	-	-	1	-	-	-	-
3-04	34+00	MAINLINE	LEFT	W3-5	SPEED LIMIT AHEAD	45	36X36	-	9.00	-	-	1	-	-	-
4-00R	37+50	MAINLINE	LEFT	W3-5	SPEED LIMIT AHEAD	45	-	-	-	-	-	-	1	1	-
6-00	54+00	MAINLINE	LEFT	W14-3	NO PASSING ZONE		48X36	-	5.56	-	1	-	-	-	-
7-00	57+00	MAINLINE	RIGHT	W1-1R	RIGHT TURN		36X36	-	9.00	-	1	-	-	-	-
7-01	57+00	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	25	18X18	-	2.25	-	-	-	-	-	7-00
7-02R	58+75	MAINLINE	RIGHT	W1-2R	RIGHT CURVE		-	-	-	-	-	-	1	1	-
7-03R	58+75	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	1	-	-
7-04R	59+50	MAINLINE	LEFT	I55-56	ADOPT-A-HIGHWAY	SCA, INC. CANTON OF COILLE STOIRMEIL	-	-	-	-	-	-	1	1	-
7-05	57+75	MAINLINE	LEFT	I55-56	ADOPT-A-HIGHWAY		30X18	3.75	-	-	1	-	-	-	-
7-06	57+75	MAINLINE	LEFT	I55-56P	ADOPT-A-HIGHWAY SPONSOR	SCA, INC. CANTON OF COILLE STOIRMEIL	30X18	3.75	-	-	-	-	-	-	7-05
7-07	62+15	MAINLINE	LEFT	W1-6L	LEFT ARROW		48X24	-	8.00	1	-	-	-	-	-
7-08R	10'B'+25	FORMICA ROAD	LEFT	R1-1	STOP		-	-	-	-	-	-	1	1	-
7-09	10'B'+50	FORMICA ROAD	LEFT	R1-1	STOP		30X30	5.18	-	-	1	-	-	-	-
7-10R	62+95	MAINLINE	LEFT	W1-6R	RIGHT ARROW		-	-	-	-	-	-	1	1	-
7-11	63+25	MAINLINE	LEFT	W1-6R	RIGHT ARROW		48X24	-	8.00	-	1	-	-	-	-
8-00R	66+25	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
8-01	66+25	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS		12X36	-	3.00	-	1	-	-	-	-
8-02	66+35	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS		12X36	-	3.00	-	1	-	-	-	-
8-03R	66+38	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
8-04	66+75	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS		12X36	-	3.00	-	-	1	-	-	-
8-05R	66+75	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
8-06	66+85	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS		12X36	-	3.00	-	-	1	-	-	-
8-07R	66+85	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
8-08R	67+35	MAINLINE	LEFT	W1-2L	LEFT CURVE		-	-	-	-	-	-	1	1	-
8-09R	67+35	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	1	-	-
8-10	67+75	MAINLINE	LEFT	W1-1L	LEFT TURN		36X36	-	9.00	-	1	-	-	-	-
8-11	67+75	MAINLINE	LEFT	W3-1	ADVISORY SPEED PLAQUE	25	18X18	-	2.25	-	-	-	-	-	8-10
8-12	68+75	MAINLINE	RIGHT	W1-1L	LEFT TURN		36X36	-	9.00	-	-	1	-	-	-
8-13	68+75	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	25	18X18	-	2.25	-	-	-	-	-	8-12
8-14R	69+75	MAINLINE	RIGHT	W1-2L	LEFT CURVE		-	-	-	-	-	-	1	1	-
8-15R	69+75	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	1	-	-
9-00	73+75	MAINLINE	RIGHT	W1-6R	RIGHT ARROW		48X24	-	8.00	-	1	-	-	-	-
9-01R	11'C'+40	FOREST AVENUE	RIGHT	R1-1	STOP		-	-	-	-	-	-	1	1	-
9-02	11'C'+45	FOREST AVENUE	RIGHT	R1-1	STOP		30X30	5.18	-	-	1	-	-	-	-
9-03	74+50	MAINLINE	RIGHT	W1-6L	LEFT ARROW		48X24	-	8.00	-	1	-	-	-	-
10-00R	78+60	MAINLINE	LEFT	W1-2R	RIGHT CURVE		-	-	-	-	-	-	1	1	-
10-01R	78+60	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	1	-	-
10-02	79+50	MAINLINE	LEFT	W1-1R	RIGHT TURN		36X36	-	9.00	-	-	1	-	-	-
10-03	79+50	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	25	18X18	-	2.25	-	-	-	-	-	10-02
11-00	89+00	MAINLINE	RIGHT	W14-3	NO PASSING ZONE		48X36	-	5.56	-	1	-	-	-	
13-00	99+65	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS		12X36	-	3.00	-	1	-	-	-	-
13-01	99+65	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS		12X36	-	3.00	-	1	-	-	-	-
						SHEET TOTALS =		37.86	115.12	1	18	5	21	17	

PERMANENT SIGNING CONTINUED

SIGN NUMBER	APPROX. STATION	LOCATION	POSITIION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	POSTS WOOD 4X6-INCH 634.0614 14 FT (EACH)	634.0616 16 FT (EACH)	634.0618 18 FT (EACH)	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	SIGN MOUNTED ON SAME POST AS
13-02R	99+75	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
13-03R	99+75	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
13-04R	99+90	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
13-05R	99+90	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS		-	-	-	-	-	-	1	1	-
13-06	99+95	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS		12X36	-	3.00	-	-	1	-	-	-
13-07	99+95	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS		12X36	-	3.00	-	-	1	-	-	-
14-00	105+50	MAINLINE	RIGHT	W1-2R	RIGHT CURVE		30X30	-	6.25	-	-	1	-	-	-
14-01	111+45	MAINLINE	LEFT	W1-2L	LEFT CURVE		30X30	-	6.25	-	-	1	-	-	-
16-00R	12'D'+30	FORTUNE ROAD	LEFT	D11-10	ATV ROUTE		-	-	-	-	-	-	1	1	-
16-01	12'D'+35	FORTUNE ROAD	LEFT	D11-10	ATV ROUTE		24X18	3.00	-	-	1	-	-	-	-
16-02	12'D'+45	FORTUNE ROAD	RIGHT	R1-1	STOP		30X30	5.18	-	-	1	-	-	-	-
16-03R	12'D'+70	FORTUNE ROAD	RIGHT	R1-1	STOP		-	-	-	-	-	-	1	1	-
24-00R	180+50	MAINLINE	RIGHT	M2-1	JUNCTION MARKER		-	-	-	-	-	-	1	1	-
24-01R	180+50	MAINLINE	RIGHT	M1-5A	COUNTY MARKER	N	-	-	-	-	-	-	1	-	-
25-00	184+00	MAINLINE	RIGHT	W3-1	STOP AHEAD		36X36	-	9.00	-	-	1	-	-	-
25-01R	184+20	MAINLINE	RIGHT	W3-1	STOP AHEAD		-	-	-	-	-	-	1	1	-
25-02	184+50	MAINLINE	LEFT	W14-3	NO PASSING ZONE		48X36	-	5.56	-	1	-	-	-	-
25-03	186+50	MAINLINE	RIGHT	M2-1	JUNCTION MARKER		21X15	2.20	-	-	-	1	-	-	-
25-04	186+50	MAINLINE	RIGHT	M1-5A	COUNTY MARKER	N	24X24	4.00	-	-	-	-	-	-	25-03
26-00R	190+50	MAINLINE	LEFT	D11-10	ATV ROUTE		-	-	-	-	-	-	1	1	-
26-01	190+75	MAINLINE	RIGHT	D11-10	ATV ROUTE		24X18	3.00	-	-	1	-	-	-	-
26-02	191+25	MAINLINE	RIGHT	R1-1	STOP		30X30	5.18	-	-	1	-	-	-	-
26-03	191+25	MAINLINE	RIGHT	M1-5A	COUNTY MARKER	N	24X24	4.00	-	-	-	1	-	-	-
26-04	191+25	MAINLINE	RIGHT	M6-4	DIRECTIONAL ARROWS LEFT - RIGHT		21X21	3.06	-	-	-	-	-	-	26-03
26-05R	191+80	MAINLINE	RIGHT	R1-1	STOP		-	-	-	-	-	-	1	1	-
26-06R	191+80	MAINLINE	RIGHT	M1-5A	COUNTY MARKER	N	-	-	-	-	-	-	1	1	-
26-07R	191+80	MAINLINE	RIGHT	M6-4	DIRECTIONAL ARROWS LEFT - RIGHT		-	-	-	-	-	-	1	-	-
26-08R	13'E'+45	CTH N	LEFT	M1-5A	COUNTY MARKER	ET	-	-	-	-	-	-	1	1	-
26-09R	13'E'+45	CTH N	LEFT	M6-1	ARROW - RIGHT		-	-	-	-	-	-	1	-	-
26-10	14'E'+45	CTH N	LEFT	M1-5A	COUNTY MARKER	ET	24X24	4.00	-	-	-	1	-	-	-
26-11	14'E'+45	CTH N	LEFT	M6-4	ARROW - RIGHT		21X21	3.06	-	-	-	-	-	-	26-10
						SHEET TOTALS =		36.68	33.06	0.00	5.00	8.00	15	12	
						PROJECT TOTALS =		74.54	148.18	1	23	13	36	29	

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_MISC QUANTITIES.DWG PLOT DATE : 10/27/2023 11:15:28 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 8

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

MARKERS ROW

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW (EACH)
100	13+88.00	MAINLINE	35.13'LT	1
101	13+88.00	MAINLINE	44.00'LT	1
102	23+50.00	MAINLINE	53.00'LT	1
103	24+11.00	MAINLINE	48.00'LT	1
104	24+18.00	MAINLINE	31.69'LT	1
105	26+28.04	MAINLINE	31.94'LT	1
106	26+30.00	MAINLINE	34.06'RT	1
107	24+24.00	MAINLINE	34.30'RT	1
108	24+24.00	MAINLINE	51.00'RT	1
109	23+93.00	MAINLINE	51.00'RT	1
110	23+93.00	MAINLINE	34.33'RT	1
111	22+99.46	MAINLINE	34.45'RT	1
112	22+99.58	MAINLINE	43.00'RT	1
113	21+18.00	MAINLINE	52.00'RT	1
114	16+49.22	MAINLINE	44.02'RT	1
115	14+12.02	MAINLINE	44.07'RT	1
200	26+28.04	MAINLINE	31.94'LT	1
201	26+65.00	MAINLINE	31.99'LT	1
202	26+65.01	MAINLINE	62.00'LT	1
203	27+24.00	MAINLINE	48.00'LT	1
204	31+59.00	MAINLINE	48.00'LT	1
205	32+78.00	MAINLINE	40.94'LT	1
206	36+10.00	MAINLINE	39.00'LT	1
207	39+56.29	MAINLINE	49.61'LT	1
208	39+57.39	MAINLINE	32.50'RT	1
209	26+79.00	MAINLINE	34.00'RT	1
210	26+79.00	MAINLINE	57.00'RT	1
211	26+30.00	MAINLINE	57.00'RT	1
212	26+30.00	MAINLINE	34.06'RT	1
300	39+56.29	MAINLINE	49.61'LT	1
301	41+65.00	MAINLINE	56.00'LT	1
302	52+84.85	MAINLINE	49.42'LT	1
303	52+85.84	MAINLINE	47.56'RT	1
304	42+00.00	MAINLINE	47.00'RT	1
305	39+57.51	MAINLINE	40.00'RT	1
306	39+57.39	MAINLINE	32.41'RT	1
400	52+84.85	MAINLINE	49.42'LT	1
401	59+55.00	MAINLINE	46.00'LT	1
402	62+51.93	MAINLINE	76.79'LT	1
403	63+10.07	MAINLINE	121.18'LT	1
404	63+69.00	MAINLINE	44.00'LT	1
405	65+50.00	MAINLINE	46.00'LT	1
406	65+87.00	MAINLINE	51.00'LT	1
407	66+15.00	MAINLINE	59.00'LT	1
408	66+47.01	MAINLINE	70.01'LT	1
409	67+22.31	MAINLINE	32.69'RT	1
410	66+47.00	MAINLINE	63.00'RT	1
411	66+00.00	MAINLINE	61.00'RT	1
412	65+18.68	MAINLINE	53.85'RT	1
413	63+15.20	MAINLINE	38.06'RT	1
414	62+35.79	MAINLINE	41.57'RT	1
415	61+50.00	MAINLINE	48.00'RT	1
416	52+85.84	MAINLINE	47.56'RT	1
451	14+12.80	MAINLINE	43.99'RT	1
499	66+47.01	MAINLINE	70.01'LT	1
500	67+33.00	MAINLINE	33.31'LT	1
501	73+37.17	MAINLINE	32.65'LT	1
502	74+79.32	MAINLINE	36.72'LT	1
503	81+62.53	MAINLINE	33.21'LT	1
504	81+62.13	MAINLINE	43.03'RT	1
			SUBTOTAL	60

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW (EACH)
505	78+50.00	MAINLINE	44.00'RT	1
506	76+56.00	MAINLINE	40.00'RT	1
507	74+61.78	MAINLINE	59.00'RT	1
508	73+79.87	MAINLINE	100.00'RT	1
509	73+33.83	MAINLINE	33.26'RT	1
510	67+22.31	MAINLINE	32.69'RT	1
600	81+62.53	MAINLINE	33.21'LT	1
601	85+37.08	MAINLINE	31.81'LT	1
602	85+37.13	MAINLINE	39.00'LT	1
603	93+00.00	MAINLINE	52.00'LT	1
604	94+80.00	MAINLINE	51.00'LT	1
605	94+80.00	MAINLINE	33.42'LT	1
606	94+92.71	MAINLINE	33.45'LT	1
607	94+93.26	MAINLINE	32.59'RT	1
608	94+93.41	MAINLINE	50.00'RT	1
609	92+29.78	MAINLINE	59.06'RT	1
610	90+00.00	MAINLINE	42.00'RT	1
611	85+00.00	MAINLINE	44.00'RT	1
612	85+00.00	MAINLINE	34.22'RT	1
613	83+25.00	MAINLINE	34.27'RT	1
614	83+25.00	MAINLINE	52.00'RT	1
615	81+62.13	MAINLINE	43.03'RT	1
700	94+92.71	MAINLINE	33.45'LT	1
701	99+30.00	MAINLINE	33.44'LT	1
702	99+30.00	MAINLINE	45.00'LT	1
703	100+97.00	MAINLINE	61.00'LT	1
704	106+51.00	MAINLINE	47.00'LT	1
705	108+21.59	MAINLINE	58.23'LT	1
706	108+25.04	MAINLINE	38.99'RT	1
707	99+84.78	MAINLINE	52.06'RT	1
708	99+84.78	MAINLINE	32.91'RT	1
709	94+93.26	MAINLINE	32.59'RT	1
800	108+21.59	MAINLINE	58.23'LT	1
801	113+00.00	MAINLINE	54.00'LT	1
802	115+50.00	MAINLINE	59.00'LT	1
803	120+00.00	MAINLINE	47.00'LT	1
804	122+00.00	MAINLINE	53.00'LT	1
805	122+00.00	MAINLINE	48.00'RT	1
806	115+80.00	MAINLINE	50.00'RT	1
807	108+25.04	MAINLINE	38.99'RT	1
900	122+00.00	MAINLINE	53.00'LT	1
901	129+00.00	MAINLINE	46.00'LT	1
902	133+62.00	MAINLINE	42.00'LT	1
903	134+92.00	MAINLINE	48.00'LT	1
904	136+00.01	MAINLINE	50.18'LT	1
905	136+00.00	MAINLINE	32.12'RT	1
906	133+65.00	MAINLINE	32.64'RT	1
907	131+18.00	MAINLINE	52.00'RT	1
908	127+00.00	MAINLINE	55.00'RT	1
909	126+00.00	MAINLINE	60.00'RT	1
910	125+97.00	MAINLINE	69.00'RT	1
911	125+94.47	MAINLINE	105.00'RT	1
912	125+27.61	MAINLINE	94.00'RT	1
913	124+65.00	MAINLINE	46.00'RT	1
914	122+00.00	MAINLINE	48.00'RT	1
1000	136+00.00	MAINLINE	50.18'LT	1
1001	137+75.00	MAINLINE	53.00'LT	1
1002	141+64.00	MAINLINE	42.00'LT	1
1003	146+80.98	MAINLINE	46.00'LT	1
1004	150+00.00	MAINLINE	46.00'LT	1
			SUBTOTAL	60

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW (EACH)
1005	150+00.00	MAINLINE	55.00'RT	1
1006	146+70.00	MAINLINE	60.00'RT	1
1007	137+18.00	MAINLINE	50.00'RT	1
1008	137+18.00	MAINLINE	32.18'RT	1
1009	136+00.00	MAINLINE	32.12'RT	1
1100	150+00.00	MAINLINE	46.00'LT	1
1101	162+74.00	MAINLINE	54.00'LT	1
1102	164+00.00	MAINLINE	54.87'LT	1
1103	163+99.98	MAINLINE	53.84'RT	1
1104	163+75.00	MAINLINE	53.00'RT	1
1105	159+00.00	MAINLINE	58.00'RT	1
1106	153+00.00	MAINLINE	51.00'RT	1
1107	150+00.00	MAINLINE	55.00'RT	1
1200	164+00.00	MAINLINE	54.87'LT	1
1201	165+13.00	MAINLINE	55.88'LT	1
1202	172+49.00	MAINLINE	51.00'LT	1
1203	178+00.00	MAINLINE	42.00'LT	1
1204	177+99.99	MAINLINE	56.14'RT	1
1205	166+86.47	MAINLINE	54.99'RT	1
1206	165+17.82	MAINLINE	57.68'RT	1
1207	163+99.98	MAINLINE	53.84'RT	1
1300	178+00.00	MAINLINE	42.00'LT	1
1301	187+00.00	MAINLINE	45.00'LT	1
1302	190+30.00	MAINLINE	41.00'LT	1
1303	191+30.79	MAINLINE	147.00'LT	1
1304	191+38.60	MAINLINE	30.80'LT	1
1305	191+43.03	MAINLINE	35.18'RT	1
1306	191+50.54	MAINLINE	147.00'RT	1
1307	190+48.00	MAINLINE	50.00'RT	1
1308	187+50.00	MAINLINE	65.00'RT	1
1309	177+99.99	MAINLINE	56.14'RT	1
1500	25+00.00	MAINLINE	48.00'LT	1
1501	25+00.00	MAINLINE	42.00'LT	1
1502	26+27.88	MAINLINE	42.00'LT	1
1503	26+30.00	MAINLINE	45.09'RT	1
1504	25+83.00	MAINLINE	45.00'RT	1
1505	25+43.00	MAINLINE	41.00'RT	1
1506	24+24.00	MAINLINE	41.00'RT	1
1507	23+93.00	MAINLINE	43.00'RT	1
1508	14+62.00	MAINLINE	44.06'RT	1
1509	14+62.00	MAINLINE	56.00'RT	1
1510	14+11.64	MAINLINE	56.00'RT	1
1511	32+78.00	MAINLINE	52.00'LT	1
1512	32+99.00	MAINLINE	52.00'LT	1
1513	32+99.00	MAINLINE	40.82'LT	1
1514	39+57.46	MAINLINE	38.00'RT	1
1515	33+59.00	MAINLINE	38.00'RT	1
1516	33+59.00	MAINLINE	57.00'RT	1
1517	32+89.00	MAINLINE	57.00'RT	1
1518	32+89.00	MAINLINE	38.00'RT	1
1519	29+20.00	MAINLINE	38.00'RT	1
1520	29+20.00	MAINLINE	48.00'RT	1
1521	28+95.00	MAINLINE	48.00'RT	1
1522	28+95.00	MAINLINE	43.00'RT	1
1523	26+79.00	MAINLINE	42.93'RT	1
1524	67+45.18	MAINLINE	63.88'RT	1
1525	67+29.00	MAINLINE	62.00'RT	1
1526	67+07.00	MAINLINE	59.00'RT	1
1527	66+68.94	MAINLINE	54.20'RT	1
1528	67+14.97	MAINLINE	41.00'LT	1
			SUBTOTAL	60

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW (EACH)
1529	68+20.00	MAINLINE	41.02'LT	1
1530	68+20.00	MAINLINE	48.00'LT	1
1531	68+41.00	MAINLINE	48.00'LT	1
1532	68+41.00	MAINLINE	43.50'LT	1
1533	71+34.00	MAINLINE	43.00'LT	1
1534	71+34.00	MAINLINE	38.00'LT	1
1535	73+70.57	MAINLINE	31.80'LT	1
1536	76+08.00	MAINLINE	37.92'LT	1
1537	76+08.00	MAINLINE	45.00'LT	1
1538	76+58.00	MAINLINE	45.00'LT	1
1539	76+58.00	MAINLINE	37.49'LT	1
1540	79+06.92	MAINLINE	35.38'LT	1
1541	79+06.92	MAINLINE	40.96'LT	1
1542	81+62.57	MAINLINE	40.51'LT	1
1543	73+42.46	MAINLINE	43.51'RT	1
1544	68+49.00	MAINLINE	38.18'RT	1
1545	68+49.00	MAINLINE	51.00'RT	1
1546	84+03.00	MAINLINE	41.50'LT	1
1547	84+03.00	MAINLINE	54.00'LT	1
1548	84+78.00	MAINLINE	53.00'LT	1
1549	84+78.00	MAINLINE	39.00'LT	1
1550	94+92.59	MAINLINE	46.80'LT	1
1551	95+50.00	MAINLINE	39.00'LT	1
1552	97+00.00	MAINLINE	39.00'LT	1
1553	97+14.00	MAINLINE	50.00'LT	1
1554	97+53.00	MAINLINE	49.00'LT	1
1555	97+73.95	MAINLINE	41.99'LT	1
1556	99+30.00	MAINLINE	41.00'LT	1
1557	99+85.00	MAINLINE	43.00'RT	1
1558	94+93.36	MAINLINE	43.00'RT	1
1559	135+65.00	MAINLINE	32.20'RT	1
1560	135+65.00	MAINLINE	38.00'RT	1
1561	134+72.00	MAINLINE	38.00'RT	1
1562	134+72.00	MAINLINE	32.43'RT	1
1563	149+68.00	MAINLINE	46.00'LT	1
1564	149+68.00	MAINLINE	52.00'LT	1
1565	150+00.00	MAINLINE	51.98'LT	1
1566	165+13.00	MAINLINE	60.00'LT	1
1567	165+50.00	MAINLINE	60.00'LT	1
1568	165+50.00	MAINLINE	55.68'LT	1
1569	172+49.00	MAINLINE	56.00'LT	1
1570	172+72.00	MAINLINE	56.00'LT	1
1571	172+72.00	MAINLINE	51.00'LT	1
1572	165+05.00	MAINLINE	57.25'RT	1
1573	165+05.00	MAINLINE	66.00'RT	1
1574	164+67.00	MAINLINE	66.00'RT	1
1575	164+67.00	MAINLINE	56.05'RT	1
			SUBTOTAL	47
			COLUMN TOTALS	180
			PROJECT TOTAL	227

MAIL BOX STAND

LOCATION	SPV.0060.02 (EACH)
UNDISTRIBUTED	4
TOTAL=	4

REESTABLISH SECTION CORNER MONUMENT

STATION	LOCATION	SPV.0060.01 (EACH)
81+62.36	0.215' LT.	1
108+23.63	0.297' LT.	1
138+75.73	0.138' RT.	1
165+14.88	1.557' LT.	1
191+71.97	2.040' RT.	1
TOTAL=		5

PVC PIPE 4-INCH

LOCATION	SPV.0090.02 (LF)
STA. 24+00, MAINLINE, LT	25
TOTAL=	25

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE — CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

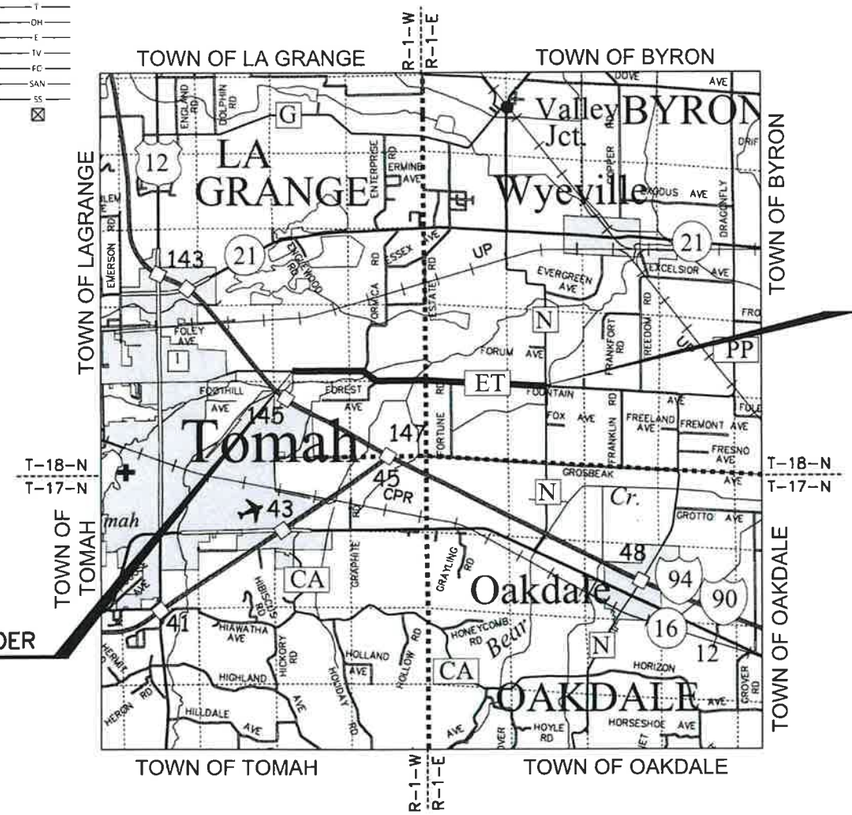
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID	PAGE	P
LAND CONTRACT	LC	POINT OF TANGENCY	PT
LEFT	LT	PERMANENT LIMITED EASEMENT	PLE
MONUMENT	MON	POINT OF BEGINNING	POB
NATIONAL GEODETIC SURVEY	NGS	POINT OF CURVATURE	PC
NUMBER	NO		
OUTLOT	OL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER — W
GAS — G
TELEPHONE — T
OVERHEAD TRANSMISSION LINES — OH
ELECTRIC — E
CABLE TELEVISION — TV
FIBER OPTIC — FC
SANITARY SEWER — SAN
STORM SEWER — SS
ELECTRIC TOWER



END RELOCATION ORDER
STA. 191+40.67
4.00' NORTH AND 31.12' WEST OF THE S¼ CORNER OF SEC.29, TOWN 18 NORTH, RANGE 1 EAST, MONROE COUNTY, WI
Y = 400074.296
X = 733844.542

BEGIN RELOCATION ORDER
STA. 13+88.00
690.95' NORTH AND 1399.02' EAST OF THE SW CORNER OF SEC. 26, TOWN 18 NORTH, RANGE 1 WEST, MONROE COUNTY, WI
Y = 401144.033
X = 716310.379

NOTES

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MONROE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 MONUMENTS (TYPICALLY ¾ X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD."

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE MONROE COUNTY HIGHWAY DEPARTMENT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT-OF-WAY TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGITATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSE ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

N

LAYOUT
SCALE 0 — 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 3.362 MI.

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
7373-00-04	4.01	14
FEDERAL PROJECT NUMBER		

PLAT OF RIGHT-OF-WAY REQUIRED FOR
T LA GRANGE – T BYRON (CTH ET)
(FORBES ROAD TO CTH N)

CTH ET — MONROE COUNTY

CONSTRUCTION PROJECT NUMBER
7373-00-74

JEWELL
associates engineers, inc.
Engineers - Architects - Surveyors
560 SUNRISE DRIVE
SPRING GREEN, WI 53588
PHONE : 608.588.7484
FAX : 608.588.9322

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FOR MONROE COUNTY, WISCONSIN AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WISCONSIN
6-15-23
NOAH E. ANLIKER
S-3265
CAZENOVIA
WISCONSIN
LAND SURVEYOR

REVISION DATE
08-04-2023 N.C
10-4-2023 N.C

APPROVED FOR MONROE COUNTY
DATE: 6/16/23 (NAME/TITLE)

FILE NAME : S:\Projects\M08455 Monroe Co Hwy - CTH ET (Forbes Rd to CTH N)\RW\DWG\M08455 CTH ET PLAT.dwg
PLOT DATE : 6/15/2023 12:18 PM
PLOT BY : Tim Velle
PLOT NAME :
PLOT SCALE : 1:1
WISDOT/CADDS SHEET 50

W¼ CORNER SEC. 26
FOUND 1.5" IRON PIPE
Y = 403094.736
X = 714865.306

N¼ CORNER SEC. 26
FOUND BROKEN
HARRISON MONUMENT
Y = 405746.938
X = 717465.312

BEGIN RELOCATION ORDER
STA. 13+88.00
690.95' NORTH AND 1399.02' EAST OF THE SW CORNER OF SEC. 26, TOWN 18 NORTH, RANGE 1 WEST, MONROE COUNTY, WI
Y = 401144.033
X = 716310.379

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
100 TO 101	N00° 06' 34"W	8.87'
101 TO 102	N89° 20' 39"E	962.04'
102 TO 103	S85° 26' 02"E	61.21'
103 TO 104	S23° 21' 39"E	17.75'
104 TO 105	N89° 48' 46"E	210.04'
105 TO 106	S01° 49' 04"E	66.03'
106 TO 107	S89° 48' 46"W	206.00'
107 TO 108	S00° 06' 52"E	16.70'
108 TO 109	S89° 52' 54"W	31.00'
109 TO 110	N00° 07' 03"W	16.67'
110 TO 111	S89° 48' 44"W	93.54'
111 TO 112	S00° 54' 14"E	8.56'
112 TO 113	S87° 02' 35"W	181.80'
113 TO 114	N89° 08' 41"W	468.84'
114 TO 115	S89° 52' 07"W	237.20'
115 TO 100	N16° 59' 41"W	82.77'

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1500	25+00.00	48.00'LT	401194.356	717422.276
1501	25+00.00	42.00'LT	401188.356	717422.285
1502	26+27.88	42.00'LT	401188.624	717550.166
1503	26+30.00	45.09'RT	401101.535	717552.472
1504	25+83.00	45.00'RT	401101.530	717505.470
1505	25+43.00	41.00'RT	401105.446	717465.460
1506	24+24.00	41.00'RT	401105.198	717346.458
1507	23+93.00	43.00'RT	401103.133	717315.464
1508	14+62.00	44.06'RT	401100.127	716384.467
1509	14+62.00	56.00'RT	401088.187	716384.499
1510	14+11.64	56.00'RT	401088.082	716334.138

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
100	13+88.00	35.13'LT	401179.164	716310.301
101	13+88.00	44.00'LT	401188.033	716310.284
102	23+50.00	53.00'LT	401199.043	717272.262
103	24+11.00	48.00'LT	401194.170	717333.274
104	24+18.00	31.69'LT	401177.879	717340.310
105	26+28.04	31.94'LT	401178.565	717550.353
106	26+30.00	34.06'RT	401112.572	717552.448
107	24+24.00	34.30'RT	401111.899	717346.446
108	24+24.00	51.00'RT	401095.197	717346.480
109	23+93.00	51.00'RT	401095.133	717315.480
110	23+93.00	34.33'RT	401111.799	717315.445
111	22+99.46	34.45'RT	401111.492	717221.910
112	22+99.58	43.00'RT	401102.937	717222.045
113	21+18.00	52.00'RT	401093.559	717040.486
114	16+49.22	44.02'RT	401100.556	716571.693
115	14+12.02	44.07'RT	401100.012	716334.492

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1	14+35.74	34.98'LT	401179.110	716358.050
2	15+60.81	34.28'LT	401178.677	716483.117
3	16+85.87	33.84'LT	401178.499	716608.181
4	17+37.55	32.10'RT	401112.659	716659.998
5	21+12.56	33.59'RT	401111.953	717035.003
6	22+98.49	31.55'LT	401177.489	717220.802

1 DEBORAH HOJNACKI AND DAVID HOJNACKI, WIFE AND HUSBAND, AS SURVIVORSHIP MARITAL PROPERTY
2 KEITH G. STORKEL AND MARY A. STORKEL, HIS WIFE, AS JOINT TENANTS
3 ISLAOLLY RENTALS LLC, A WISCONSIN LIMITED LIABILITY COMPANY
4 BEVERLY R. LINENBERG, A SINGLE PERSON, AS INDIVIDUAL PROPERTY
43 KEVIN E. LINENBERG
5 RUTH ANN LINENBERG, A SINGLE PERSON, AS INDIVIDUAL PROPERTY
6 ARLENE M. PIERCE
7 THE KING FAMILY IRREVOCABLE TRUST
8 RONALD D. FORBUSH AND DEBORAH FORBUSH AS A MARRIED COUPLE
9 TAMMY C. DUMMERMUTH AND THOMAS D. DUMMERMUTH, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY
10 JONATHAN GREENO , A SINGLE PERSON
11 ALICIA CARTWRIGHT, A MARRIED PERSON, AS INDIVIDUAL PROPERTY
SHERYLL A. LEIS

LOT 1 17CSM022 DOC.532908
LOT 2 17CSM022 DOC.532908
LOT 1 17CSM092 DOC.5369649
LOT 1 4CSM285 DOC.3546500
PARCEL A CSM V.1 P.160 DOC.285431
PARCEL B CSM V.1 P.160 DOC.285431
SE¼-SW¼
EP: 12+98.67
WE ENERGIES
C/L CTH ET
SLOPE INTERCEPTS
66' WIDE INGRESS/ EGRESS EASEMENT
QUARTER SECTION LINE AT STA 26+28.57
CTH ET
N89°52'49"E
CENTURYLINK
OAKDALE ELECTRIC
GUY
GUY ROD
C/L FORBES ROAD
FORBES ROAD
WEST LINE OF THE SW¼
EAST LINE OF THE SW¼
EAST LINE OF THE SE¼ - SW¼
N0°59'55"W
N1°03'59"W
N62°34'14"E, 1576.14' FROM SW COR. SEC.26 TO R/W PT. 100
2642.03'
5265.13'
GN
SHEET 4.03

TOWN OF LA GRANGE

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-1	THE KING FAMILY IRREVOCABLE TRUST	24+80 - 26+40, 30.3' - 32.6' RT.	FENCE

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
1	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203427	6,7	BLANKET EASEMENT
2	NORTH-WEST TELEPHONE COMPANY	DOC. 325744, V.73, P.36	6,7	BLANKET EASEMENT
3	NORTH-WEST TELEPHONE COMPANY	DOC. 325743, V.73, P.35	1,2,3,4,9, 10, 11	BLANKET EASEMENT
4	NORTH-WEST TELEPHONE COMPANY	DOC.325778, V.73, P.70	1,2,3,4,9, 10, 11	BLANKET EASEMENT
6	NORTH-WEST TELEPHONE COMPANY	DOC. 326981, V.73, P.455	1,2,3,4,5,6,7,8,9, 10,11	BLANKET EASEMENT
30	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 205496	1,2,3,4,9,10,11,43	BLANKET EASEMENT
31	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 205497	1,2,3,4,5,6,7,8,9, 10,11,43	BLANKET EASEMENT

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
1	DEBORAH HOJNACKI AND DAVID HOJNACKI, WIFE AND HUSBAND, AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.01	-	0.01	-
2	KEITH G. STORKEL AND MARY A. STORKEL, HIS WIFE, AS JOINT TENANTS	FEE	0.03	-	0.03	-
3	ISLAOLLY RENTALS LLC, A WISCONSIN LIMITED LIABILITY COMPANY	FEE	0.03	-	0.03	-
4	BEVERLY R. LINENBERG, A SINGLE PERSON, AS INDIVIDUAL PROPERTY	FEE	0.12	-	0.12	-
5	RUTH ANN LINENBERG, A SINGLE PERSON, AS INDIVIDUAL PROPERTY	FEE	0.12	-	0.12	-
6	ARLENE M. PIERCE	FEE, TLE	0.05	0.11	0.16	0.01
7	THE KING FAMILY IRREVOCABLE TRUST	FEE,TLE	0.01	0.39	0.40	0.11
8	ROLAND D. FORBUSH	FEE	0.06	0.15	0.21	-
9	TAMMY C. DUMMERMUTH AND THOMAS D. DUMMERMUTH, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.13	-	0.13	-
10	JONATHAN GREENO, A SINGLE PERSON	FEE	0.02	-	0.02	-
11	ALICIA CARTWRIGHT, A MARRIED PERSON, AS INDIVIDUAL PROPERTY	TLE	-	-	-	0.01
43	KEVIN E. LINENBERG	FEE	-	0.46	0.46	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

SW CORNER SEC. 26
FOUND 2" IRON PIPE
Y = 400453.103
X = 714911.351

30' OFFSET TO S¼ CORNER SEC. 26
FOUND 1" REBAR
Y = 400482.731
X = 717563.639

30' OFFSET TO S¼ CORNER SEC. 26
FOUND 1" REBAR
Y = 400422.190
X = 717563.859

60.54'
S0°12'30"E

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.
EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

REVISION DATE
8-4-2023 N.C.
10-4-202:

DATE 10/4/2023

SCALE, FEET
0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.02
PS&E SHEET 71

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.02
PLOT DATE : 10/4/2023 7:27 AM
PLOT BY : TIM VELTE
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 75

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
7	THE KING FAMILY IRREVOCABLE TRUST	FEE, TLE	-	0.05	0.05	0.02
12	BRIAN S. JERDEE AND MICHELLE L. JERDEE, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE, TLE	0.39	1.96	2.35	0.21
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
7	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203426	12	BLANKET EASEMENT
8	NORTH-WEST TELEPHONE COMPANY	DOC. 325761, V.73, P.53	12	BLANKET EASEMENT

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-1	THE KING FAMILY IRREVOCABLE TRUST	24+80 - 26+40, 30.3' - 32.6' RT.	FENCE

N¼ CORNER SEC. 26
FOUND BROKEN
HARRISON MONUMENT
Y = 405746.938
X = 717465.312

5265.13'

S01°03'59"E, 4569.16'
FROM N¼ COR. SEC.26
TO R/W PT. 200

GN

TOWN OF LA GRANGE

SW¼-SE¼

WEST LINE OF THE SW¼-SE¼

EAST LINE OF THE SW¼-SE¼

PL

QUARTER SECTION LINE AT STA 26+28.57

SIXTEENTH LINE AT STA 39+56.95

SLOPE INTERCEPTS

WE ENERGIES

C/L CTH ET

BLDG.

78

39'

65'

N89°52'49"E

CTH ET

OAKDALE ELECTRIC

CENTURYLINK

GUY

E-1

SHEET 4.02

SHEET 4.04

12

BRIAN S. JERDEE AND MICHELLE L. JERDEE, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY

7

12

201

N1°03'59"W

60.54'

S0°12'30"E

30' OFFSET TO S¼ CORNER SEC. 26 FOUND 1" REBAR
Y = 400482.731
X = 717563.639

30' OFFSET TO S¼ CORNER SEC. 26 FOUND 1" REBAR
Y = 400422.190
X = 717563.859

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
200	26+28.04	31.94'LT	401178.565	717550.353
201	26+65.00	31.99'LT	401178.686	717587.307
202	26+65.01	62.00'LT	401208.701	717587.258
203	27+24.00	48.00'LT	401194.824	717646.272
204	31+59.00	48.00'LT	401195.734	718081.276
205	32+78.00	40.94'LT	401188.923	718200.293
206	36+10.00	39.00'LT	401187.676	718532.297
207	39+56.29	49.61'LT	401199.006	718878.559
208	39+57.39	32.50'RT	401116.908	718879.830
209	26+79.00	34.00'RT	401112.732	717601.451
210	26+79.00	57.00'RT	401089.731	717601.500
211	26+30.00	57.00'RT	401089.627	717552.499
212	26+30.00	34.06'RT	401112.572	717552.448

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1502	26+27.88	42.00'LT	401188.624	717550.166
1511	32+78.00	52.00'LT	401199.982	718200.270
1512	32+99.00	52.00'LT	401200.026	718221.268
1513	32+99.00	40.82'LT	401188.844	718221.292
1514	39+57.46	38.00'RT	401111.402	718879.916
1515	33+59.00	38.00'RT	401110.151	718281.456
1516	33+59.00	57.00'RT	401091.151	718281.495
1517	32+89.00	57.00'RT	401091.006	718211.493
1518	32+89.00	38.00'RT	401110.006	718211.455
1519	29+20.00	38.00'RT	401109.234	717842.457
1520	29+20.00	48.00'RT	401099.234	717842.478
1521	28+95.00	48.00'RT	401099.182	717817.478
1522	28+95.00	43.00'RT	401104.182	717817.463
1523	26+79.00	42.93'RT	401103.803	717601.467

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
200 TO 201	N89° 48' 46"E	36.95'
201 TO 202	N00° 05' 38"W	30.01'
202 TO 203	S76° 46' 04"E	60.62'
203 TO 204	N89° 52' 49"E	435.01'
204 TO 205	S86° 43' 30"E	119.21'
205 TO 206	S89° 47' 05"E	332.01'
206 TO 207	N88° 07' 33"E	346.45'
207 TO 208	S00° 53' 15"E	82.11'
208 TO 209	S89° 48' 46"W	1278.39'
209 TO 210	S00° 07' 17"E	23.00'
210 TO 211	S89° 52' 43"W	49.00'
211 TO 212	N00° 07' 42"W	22.94'
212 TO 200	N01° 49' 04"W	66.03'

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.
EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023 N.C.
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET
0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.03
PS&E SHEET 72

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.03

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

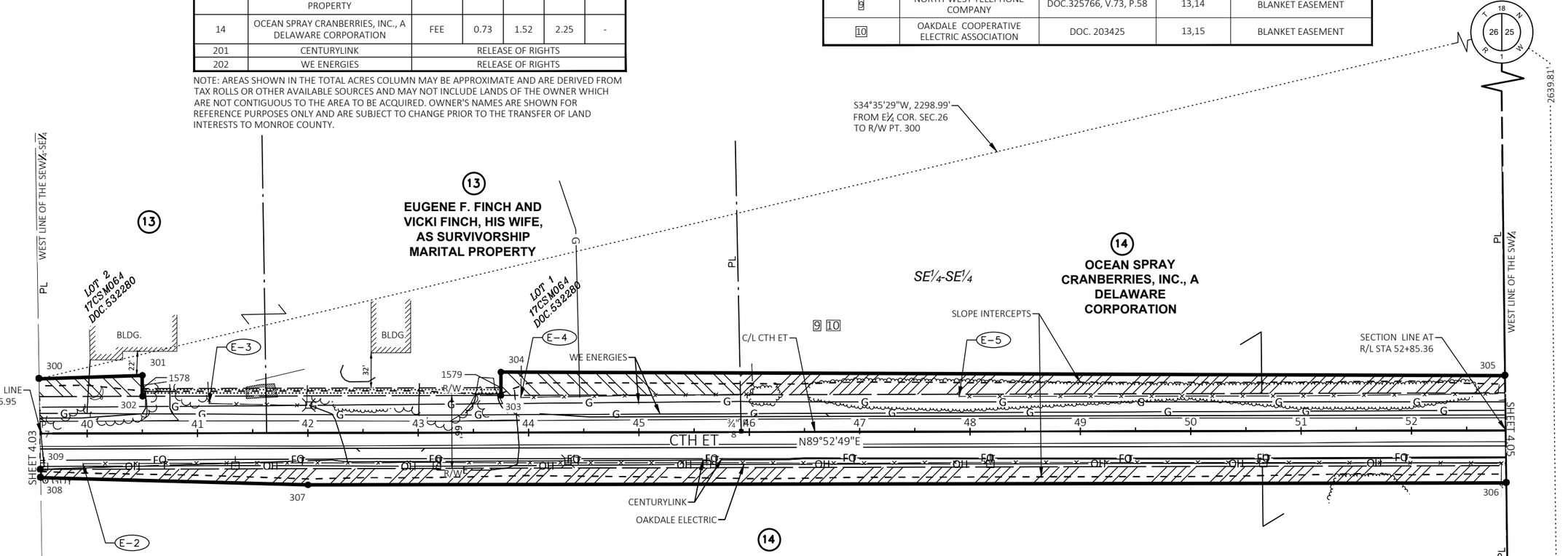
SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
13	EUGENE F. FINCH AND VICKI FINCH, HIS WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE, TLE	0.14	0.49	0.63	0.05
14	OCEAN SPRAY CRANBERRIES, INC., A DELAWARE CORPORATION	FEE	0.73	1.52	2.25	-
201	CENTURYLINK	RELEASE OF RIGHTS				
202	WE ENERGIES	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
9	NORTH-WEST TELEPHONE COMPANY	DOC.325766, V.73, P.58	13,14	BLANKET EASEMENT
10	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203425	13,15	BLANKET EASEMENT

E¼ CORNER SEC. 26
FOUND HAPP MONUMENT
Y = 403091.584
X = 720183.740

GN



TOWN OF LA GRANGE

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
300	39+56.29	49.61'LT	401199.006	718878.559
301	40+50.22	52.54'LT	401202.131	718972.483
302	40+50.22	33.60'LT	401183.201	718972.523
303	43+75.00	33.69'LT	401183.966	719297.302
304	43+75.00	54.83'LT	401205.101	719297.256
305	52+84.85	49.42'LT	401201.594	720207.115
306	52+85.84	47.47'RT	401104.710	720208.313
307	42+00.00	47.00'RT	401102.909	719122.470
308	39+57.51	40.00'RT	401109.403	718879.962
309	39+57.39	32.49'RT	401116.908	718879.830

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
8	45+92.62	0.79'LT	401151.518	719514.995

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
300 TO 301	N88° 05' 40"E	93.98'
301 TO 302	S00° 07' 11"E	18.93'
302 TO 303	N89° 51' 54"E	324.78'
303 TO 304	N00° 07' 31"W	21.13'
304 TO 305	S89° 46' 45"E	909.87'
305 TO 306	S00° 42' 30"E	96.89'
306 TO 307	S89° 54' 18"W	1085.84'
307 TO 308	N88° 27' 58"W	242.59'
308 TO 309	N01° 00' 26"W	7.51'
309 TO 300	N00° 53' 15"W	82.11'

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-2	OCEAN SPRAY CRANBERRIES, INC., A DELAWARE CORPORATION	39+95 - 52+86, 26.6' - 30.7' RT.	FENCE
E-3	EUGENE F. FINCH AND VICKI FINCH, HIS WIFE, AS SURVIVORSHIP MARITAL PROPERTY	41+10 - 41+99, 25.3' -27.3' LT	FENCE
E-4	EUGENE F. FINCH AND VICKI FINCH, HIS WIFE, AS SURVIVORSHIP MARITAL PROPERTY	43+93 - 45+47, 31.9' - 33.5' LT.	FENCE
E-5	OCEAN SPRAY CRANBERRIES, INC., A DELAWARE CORPORATION	47+90 - 52+86, 30.8' - 32.7' LT.	FENCE

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1578	40+50.00	40.55'LT	401190.142	718972.289
1579	43+75.00	40.69'LT	401191.966	719297.287

SE CORNER SEC. 26
FOUND HARRISON MONUMENT
Y = 400451.977
X = 720216.386

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023 N.C.
10-4-2023

DATE 10/4/2023

SCALE, FEET
0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.04
PS&E SHEET 73

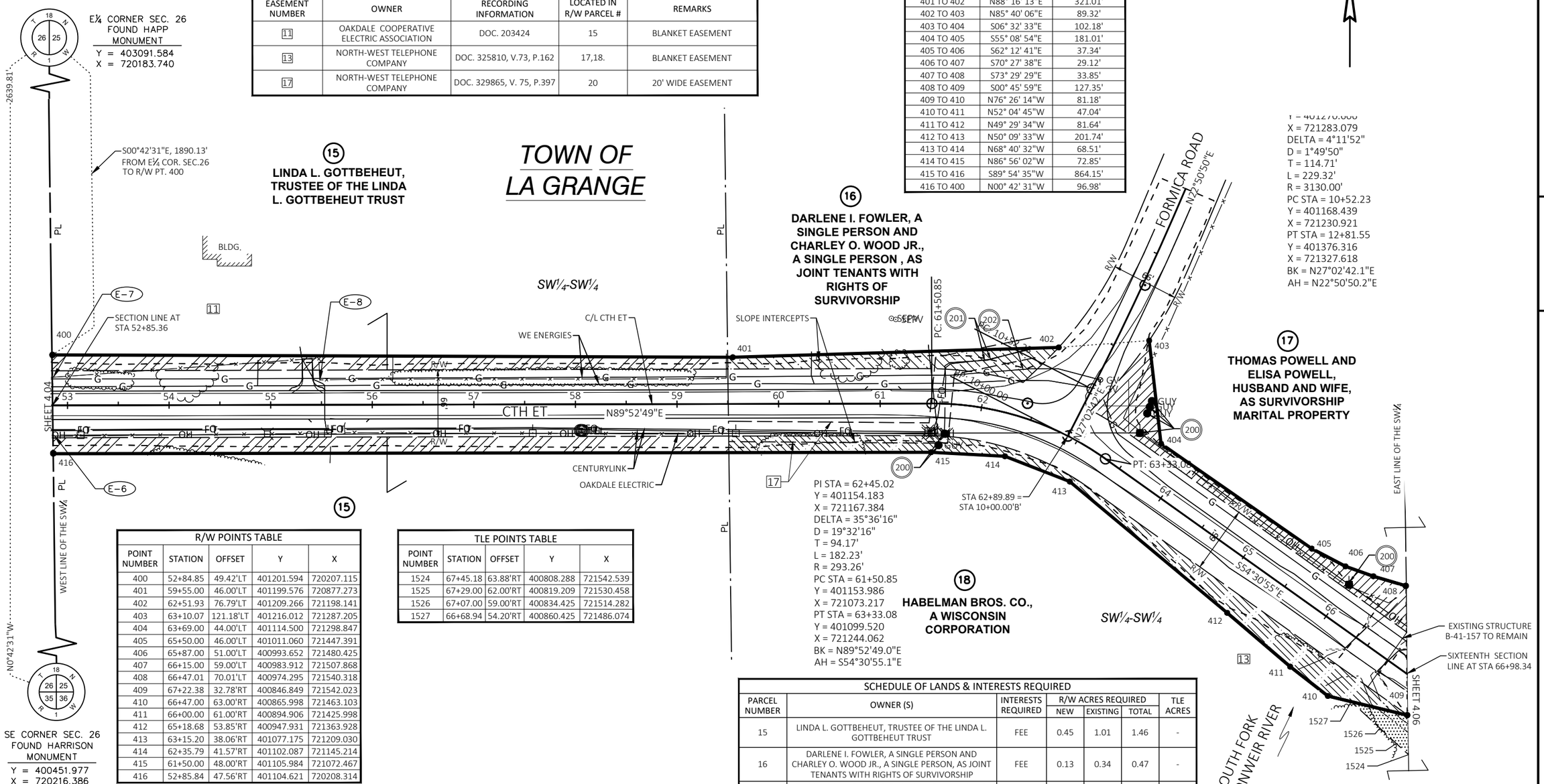
E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.04
PLOT DATE : 10/4/2023 7:28 AM
PLOT BY : TIM VELTE
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 75

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
11	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203424	15	BLANKET EASEMENT
13	NORTH-WEST TELEPHONE COMPANY	DOC. 325810, V.73, P.162	17,18.	BLANKET EASEMENT
17	NORTH-WEST TELEPHONE COMPANY	DOC. 329865, V. 75, P.397	20	20' WIDE EASEMENT

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
400 TO 401	S89° 49' 39"E	670.16'
401 TO 402	N88° 16' 13"E	321.01'
402 TO 403	N85° 40' 06"E	89.32'
403 TO 404	S06° 32' 33"E	102.18'
404 TO 405	S55° 08' 54"E	181.01'
405 TO 406	S62° 12' 41"E	37.34'
406 TO 407	S70° 27' 38"E	29.12'
407 TO 408	S73° 29' 29"E	33.85'
408 TO 409	S00° 45' 59"E	127.35'
409 TO 410	N76° 26' 14"W	81.18'
410 TO 411	N52° 04' 45"W	47.04'
411 TO 412	N49° 29' 34"W	81.64'
412 TO 413	N50° 09' 33"W	201.74'
413 TO 414	N68° 40' 32"W	68.51'
414 TO 415	N86° 56' 02"W	72.85'
415 TO 416	S89° 54' 35"W	864.15'
416 TO 400	N00° 42' 31"W	96.98'



R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
400	52+84.85	49.42'LT	401201.594	720207.115
401	59+55.00	46.00'LT	401199.576	720877.273
402	62+51.93	76.79'LT	401209.266	721198.141
403	63+10.07	121.18'LT	401216.012	721287.205
404	63+69.00	44.00'LT	401114.500	721298.847
405	65+50.00	46.00'LT	401011.060	721447.391
406	65+87.00	51.00'LT	400993.652	721480.425
407	66+15.00	59.00'LT	400983.912	721507.868
408	66+47.01	70.01'LT	400974.295	721540.318
409	67+22.38	32.78'RT	400846.849	721542.023
410	66+47.00	63.00'RT	400865.998	721463.103
411	66+00.00	61.00'RT	400894.906	721425.998
412	65+18.68	53.85'RT	400947.931	721363.928
413	63+15.20	38.06'RT	401077.175	721209.030
414	62+35.79	41.57'RT	401102.087	721145.214
415	61+50.00	48.00'RT	401105.984	721072.467
416	52+85.84	47.56'RT	401104.621	720208.314

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1524	67+45.18	63.88'RT	400808.288	721542.539
1525	67+29.00	62.00'RT	400819.209	721530.458
1526	67+07.00	59.00'RT	400834.425	721514.282
1527	66+68.94	54.20'RT	400860.425	721486.074

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-6	LINDA L. GOTTBEHEUT, TRUSTEE OF THE LINDA L. GOTTBEHEUT TRUST	52+86 - 59+31, 32.3' - 32.6' RT.	FENCE
E-7	LINDA L. GOTTBEHEUT, TRUSTEE OF THE LINDA L. GOTTBEHEUT TRUST	52+86 - 53+78, 27.0' - 33.6' LT.	FENCE
E-8	LINDA L. GOTTBEHEUT, TRUSTEE OF THE LINDA L. GOTTBEHEUT TRUST	55+48 - 59+49, 24.1' - 24.7' LT.	FENCE

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
15	LINDA L. GOTTBEHEUT, TRUSTEE OF THE LINDA L. GOTTBEHEUT TRUST	FEE	0.45	1.01	1.46	-
16	DARLENE I. FOWLER, A SINGLE PERSON AND CHARLEY O. WOOD JR., A SINGLE PERSON, AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP	FEE	0.13	0.34	0.47	-
17	THOMAS POWELL, AND ELISA POWELL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.19	0.34	0.53	-
18	HABELMAN BROS. CO., A WISCONSIN CORPORATION	FEE, TLE	0.28	0.55	0.83	0.02
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				
202	WE ENERGIES	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023 N.C.
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET

COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04

CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.05

PS&E SHEET 74

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.05

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
499	66+47.01	70.01'LT	400974.295	721540.318
500	66+33.00	33.31'LT	400894.492	721589.039
501	73+37.17	32.65'LT	400544.664	722079.381
502	74+79.32	36.72'LT	400507.117	722198.954
503	81+62.53	33.21'LT	400514.693	722877.353
504	81+62.13	43.03'RT	400438.454	722878.450
505	78+50.00	44.00'RT	400431.355	722566.399
506	76+56.00	40.00'RT	400431.545	722372.363
507	74+61.78	59.00'RT	400414.793	722167.956
508	73+79.87	100.00'RT	400405.755	722058.089
509	73+33.83	33.26'RT	400490.936	722041.049
510	67+22.38	32.78'RT	400846.849	721542.023

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1524	67+34.85	49.80'RT	400825.752	721542.305
1528	67+14.97	41.00'LT	400911.230	721578.820
1529	68+20.00	41.02'LT	400850.279	721664.354
1530	68+20.00	48.00'LT	400855.959	721668.403
1531	68+41.00	48.00'LT	400843.769	721685.503
1532	68+41.00	43.50'LT	400840.105	721682.891
1533	71+34.00	43.00'LT	400669.610	721921.190
1534	71+34.00	38.00'LT	400665.539	721918.287
1535	73+70.57	31.80'LT	400529.310	722105.086
1536	76+08.00	37.92'LT	400508.509	722322.840
1537	76+08.00	45.00'LT	400515.585	722322.694
1538	76+58.00	45.00'LT	400516.567	722372.694
1539	76+58.00	37.49'LT	400509.059	722372.836
1540	79+06.92	35.38'LT	400511.839	722621.747
1541	79+06.92	40.96'LT	400517.419	722621.640
1542	81+62.57	40.51'LT	400521.991	722877.248
1543	73+42.46	43.51'RT	400477.108	722043.815
1544	68+49.00	38.18'RT	400768.949	721641.991
1545	68+49.00	51.00'RT	400758.507	721634.557

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
9	79+06.91	35.43'LT	400511.889	722621.738
10	79+06.76	2.47'LT	400478.935	722622.235

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
499 TO 500	S31° 24' 15"E	93.50'
500 TO 501	S54° 29' 41"E	602.34'
501 TO 502	(SEE ERWC1)	
502 TO 503	N89° 21' 37"E	678.44'
503 TO 504	S00° 49' 28"E	76.25'
504 TO 505	S88° 41' 48"W	312.13'
505 TO 506	N89° 56' 38"W	194.04'
506 TO 507	S85° 18' 54"W	205.09'
507 TO 508	S85° 17' 51"W	110.24'
508 TO 509	N11° 18' 44"W	86.87'
509 TO 510	N54° 29' 41"W	613.01'
510 TO 499	N00° 45' 59"W	127.35'

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-9	THOMAS POWELLAND ELISA POWELL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	69+31 - 74+97, 21.7' - 32.9' LT.	FENCE
E-10	HABELMAN BROS. CO., A WISCONSIN CORPORATION	75+28 - 78+79, 28.0' - 29.9' LT.	FENCE

ERWC1
L=127.43'
R=202.00'
DELTA=36°08'43"
CH=125.33'
CHB=S72°34'02"E

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
17	THOMAS POWELL, AND ELISA POWELL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE,TLE	0.02	0.61	0.63	0.11
18	HABELMAN BROS. CO., A WISCONSIN CORPORATION	FEE, TLE	0.005	0.84	0.845	0.16
19	JOHN P. MAITREJEAN, A SINGLE PERSON, AS INDIVIDUAL PROPERTY	FEE, TLE	-	0.19	0.19	0.04
20	LOIS WHITE TRUSTEE OF THE LOIS WHITE TRUST DATED NOVEMBER 6, 2009	FEE	0.23	0.65	0.88	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
12	NORTH-WEST TELEPHONE COMPANY	DOC. 329994, V.76, P.73	16,18	20' WIDE EASEMENT
13	NORTH-WEST TELEPHONE COMPANY	DOC. 325810, V.73, P.162	17,18.	BLANKET EASEMENT
14	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 205455	17,18,	BLANKET EASEMENT
20	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203400	17,18,19	BLANKET EASEMENT

SOUTH FORK LEMONWEIR RIVER

SIXTEENTH SECTION LINE AT STA 66+98.34

SHEET 4.05

SHEET 4.07

PI STA = 74+23.03
Y = 400466.822
X = 722131.573
DELTA = 36°36'36"
D = 18°21'15"
T = 103.27'
L = 199.46'
R = 312.17'
PC STA = 73+19.76
Y = 400526.769
X = 722047.483
PT STA = 75+19.22
Y = 400468.850
X = 722234.822
BK = S54°30'55.1"E
AH = N88°52'28.7"E

N68°28'11"E, 1423.24' FROM SE COR. SEC.26 TO R/W PT. 500

SOUTH LINE OF THE SW¼

N89°21'37"E, 2661.61' FROM SE COR. SEC.26 TO S¼ COR. SEC.25

SE CORNER SEC. 26 FOUND HARRISON MONUMENT
Y = 400451.977
X = 720216.386

PI STA = 11+00.32
Y = 400398.789
X = 722102.496
DELTA = 25°55'48"
D = 16°51'06"
T = 78.28'
L = 153.87'
R = 340.00'
PC STA = 10+22.04
Y = 400350.254
X = 722041.083
PT STA = 11+75.91
Y = 400469.293
X = 722136.503
BK = N51°40'49.6"E
AH = N25°45'01.3"E

N51°40'50"E

SECTION LINE AT STA 11+80.24'C'

SECTION LINE AT STA 74+56.96

N25°45'01"E

SE¼-SW¼

NE¼-NW¼

FOREST AVENUE

CTH ET

C/L CTH ET

PC: 73+19.76

PT: 75+19.22

PC: 10+22.04

BP: 10+00.00

PT: 11+75.91

EP: 11+88.94

STA 74+25.41 = STA 11+88.94'C'

STA 74+25.41 = STA 11+88.94'C'

17 THOMAS POWELL AND ELISA POWELL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY

18 HABELMAN BROS. CO., A WISCONSIN CORPORATION

19 JOHN P. MAITREJEAN, A SINGLE PERSON, AS INDIVIDUAL PROPERTY

20 LOIS WHITE TRUSTEE OF THE LOIS WHITE TRUST DATED NOVEMBER 6,

LOT 1 17CSM203 DOC.541604

BLDG.

WE ENERGIES

OAKDALE ELECTRIC

CENTURYLINK

SLOPE INTERCEPTS

MAG NAIL

QUARTER SECTION LINE AT STA 81+62.35

S¼ CORNER SEC. 25 FOUND HARRISON MONUMENT
Y = 400481.696
X = 722877.828

N88°52'29"E

TOWN OF LA GRANGE

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023 N.C.
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.06
PS&E SHEET 75

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.06

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

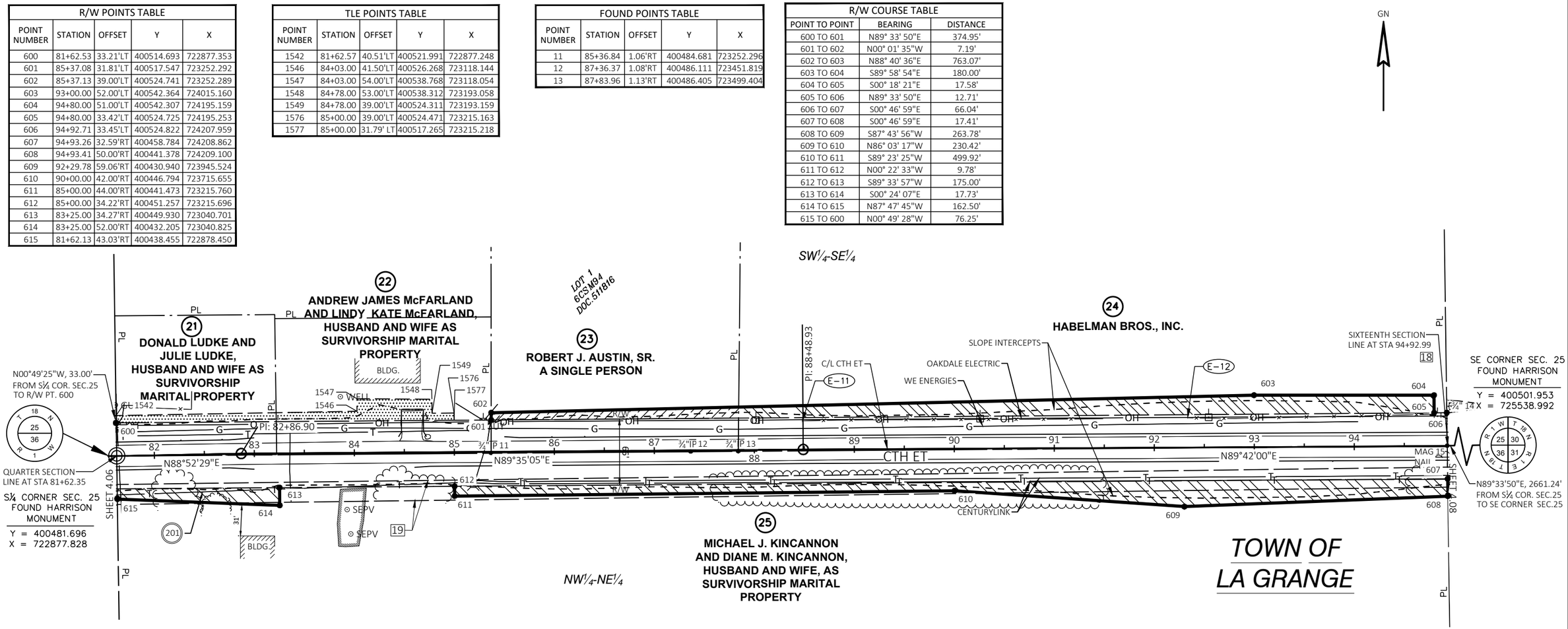
WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
600	81+62.53	33.21'LT	400514.693	722877.353
601	85+37.08	31.81'LT	400517.547	723252.292
602	85+37.13	39.00'LT	400524.741	723252.289
603	93+00.00	52.00'LT	400542.364	724015.160
604	94+80.00	51.00'LT	400542.307	724195.159
605	94+80.00	33.42'LT	400524.725	724195.253
606	94+92.71	33.45'LT	400524.822	724207.959
607	94+93.26	32.59'RT	400458.784	724208.862
608	94+93.41	50.00'RT	400441.378	724209.100
609	92+29.78	59.06'RT	400430.940	723945.524
610	90+00.00	42.00'RT	400446.794	723715.655
611	85+00.00	44.00'RT	400441.473	723215.760
612	85+00.00	34.22'RT	400451.257	723215.696
613	83+25.00	34.27'RT	400449.930	723040.701
614	83+25.00	52.00'RT	400432.205	723040.825
615	81+62.13	43.03'RT	400438.455	722878.450

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1542	81+62.57	40.51'LT	400521.991	722877.248
1546	84+03.00	41.50'LT	400526.268	723118.144
1547	84+03.00	54.00'LT	400538.768	723118.054
1548	84+78.00	53.00'LT	400538.312	723193.058
1549	84+78.00	39.00'LT	400524.311	723193.159
1576	85+00.00	39.00'LT	400524.471	723215.163
1577	85+00.00	31.79' LT	400517.265	723215.218

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
11	85+36.84	1.06'RT	400484.681	723252.296
12	87+36.37	1.08'RT	400486.111	723451.819
13	87+83.96	1.13'RT	400486.405	723499.404

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
600 TO 601	N89° 33' 50"E	374.95'
601 TO 602	N00° 01' 35"W	7.19'
602 TO 603	N88° 40' 36"E	763.07'
603 TO 604	S89° 58' 54"E	180.00'
604 TO 605	S00° 18' 21"E	17.58'
605 TO 606	N89° 33' 50"E	12.71'
606 TO 607	S00° 46' 59"E	66.04'
607 TO 608	S00° 46' 59"E	17.41'
608 TO 609	S87° 43' 56"W	263.78'
609 TO 610	N86° 03' 17"W	230.42'
610 TO 611	S89° 23' 25"W	499.92'
611 TO 612	N00° 22' 33"W	9.78'
612 TO 613	S89° 33' 57"W	175.00'
613 TO 614	S00° 24' 07"E	17.73'
614 TO 615	N87° 47' 45"W	162.50'
615 TO 600	N00° 49' 28"W	76.25'



SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
21	DONALD LUDKE AND JULIE LUDKE, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE,TLE	-	0.12	0.12	0.03
22	ANDREW JAMES McFARLAND AND LINDY KATE McFARLAND, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE,TLE	-	0.16	0.16	0.06
23	ROBERT J. AUSTIN, SR., A SINGLE PERSON	FEE	0.05	0.19	0.24	-
24	HABELMAN BROS., INC.	FEE	0.26	0.54	0.80	-
25	MICHAEL J. KINCANNON AND DIANE M. KINCANNON, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.39	1.01	1.4	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-11	HABELMAN BROS. CO., A WISCONSIN CORPORATION	88+48 -91+49, 28.5' -29.3' LT.	FENCE
E-12	HABELMAN BROS. CO., A WISCONSIN CORPORATION	92+33 - 94+82, 28.7' - 32.2' LT.	FENCE

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
18	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203423	21,22,23,24	BLANKET EASEMENT
19	NORTH-WEST TELEPHONE COMPANY	DOC. 329848, V.75, P.483	25	20' WIDE EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET
0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.07
PS&E SHEET 76

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.07

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

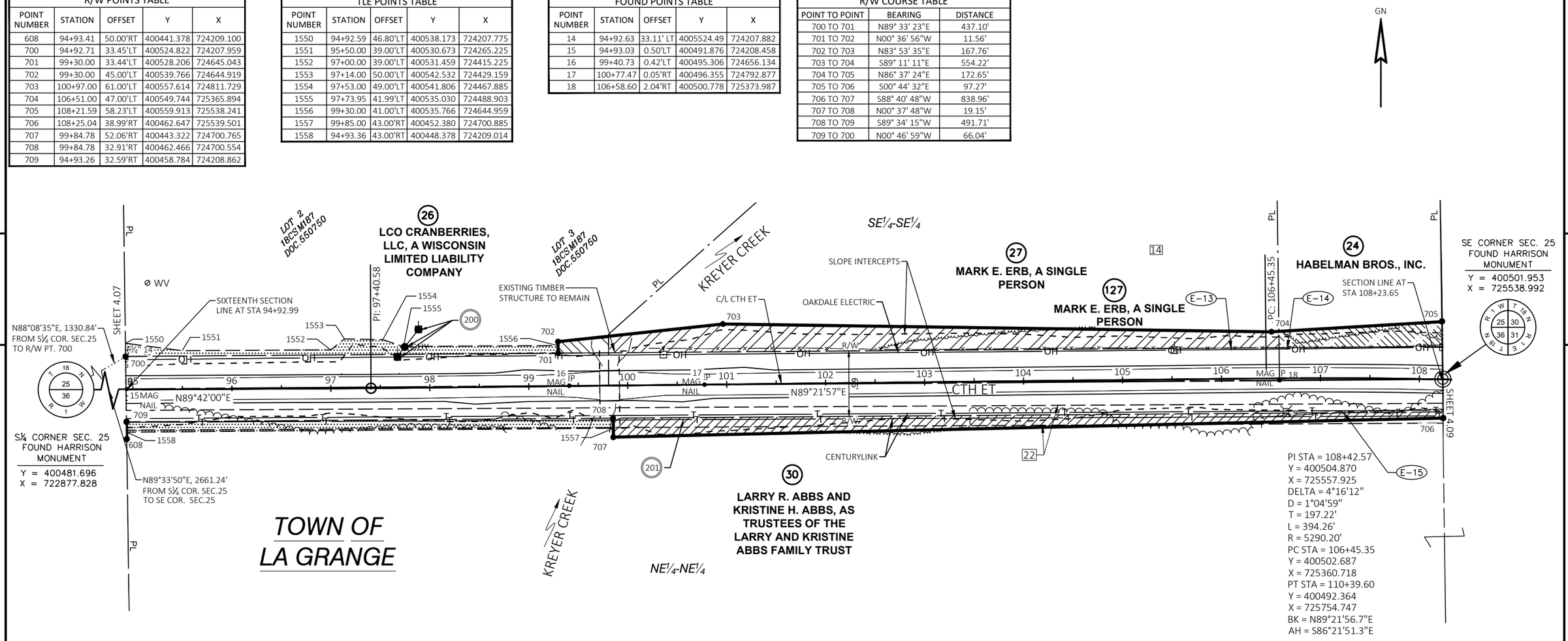
WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
608	94+93.41	50.00'RT	400441.378	724209.100
700	94+92.71	33.45'LT	400524.822	724207.959
701	99+30.00	33.44'LT	400528.206	724645.043
702	99+30.00	45.00'LT	400539.766	724644.919
703	100+97.00	61.00'LT	400557.614	724811.729
704	106+51.00	47.00'LT	400549.744	725365.894
705	108+21.59	58.23'LT	400559.913	725538.241
706	108+25.04	38.99'RT	400462.647	725539.501
707	99+84.78	52.06'RT	400443.322	724700.765
708	99+84.78	32.91'RT	400462.466	724700.554
709	94+93.26	32.59'RT	400458.784	724208.862

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1550	94+92.59	46.80'LT	400538.173	724207.775
1551	95+50.00	39.00'LT	400530.673	724265.225
1552	97+00.00	39.00'LT	400531.459	724415.225
1553	97+14.00	50.00'LT	400542.532	724429.159
1554	97+53.00	49.00'LT	400541.806	724467.885
1555	97+73.95	41.99'LT	400535.030	724488.903
1556	99+30.00	41.00'LT	400535.766	724644.959
1557	99+85.00	43.00'RT	400452.380	724700.885
1558	94+93.36	43.00'RT	400448.378	724209.014

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
14	94+92.63	33.11' LT	4005524.49	724207.882
15	94+93.03	0.50'LT	400491.876	724208.458
16	99+40.73	0.42'LT	400495.306	724656.134
17	100+77.47	0.05'RT	400496.355	724792.877
18	106+58.60	2.04'RT	400500.778	725373.987

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
700 TO 701	N89° 33' 23"E	437.10'
701 TO 702	N00° 36' 56"W	11.56'
702 TO 703	N83° 53' 35"E	167.76'
703 TO 704	S89° 11' 11"E	554.22'
704 TO 705	N86° 37' 24"E	172.65'
705 TO 706	S00° 44' 32"E	97.27'
706 TO 707	S88° 40' 48"W	838.96'
707 TO 708	N00° 37' 48"W	19.15'
708 TO 709	S89° 34' 15"W	491.71'
709 TO 700	N00° 46' 59"W	66.04'



SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
24	HABELMAN BROS., INC.	FEE	0.08	0.12	0.20	-
26	LCO CRANBERRIES, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	FEE, TLE	0.02	0.37	0.39	0.08
27	MARK E. ERB, A SINGLE PERSON	FEE	0.28	0.51	0.79	-
30	LARRY R. ABBS AND KRISTINE H. ABBS, AS TRUSTEES OF THE LARRY AND KRISTINE ABBS FAMILY TRUST	FEE, TLE	0.26	1.01	1.27	0.12
127	MARK E. ERB, A SINGLE PERSON	FEE	0.06	-	0.06	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-13	MARK E. ERB, A SINGLE PERSON	106+18 - 106+59, 30.5' - 30.8' LT.	FENCE
E-14	HABELMAN BROS. CO., A WISCONSIN CORPORATION	106+59 - 107+45, 30.5' - 31.5' LT.	FENCE
E-15	LARRY R. ABBS AND KRISTINE H. ABBS, AS TRUSTEES OF THE LARRY AND KRISTINE ABBS FAMILY TRUST	107+28 - 108+28, 29.6' - 34.8' RT.	FENCE

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
14	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 205455	27	BLANKET EASEMENT
22	NORTH-WEST TELEPHONE COMPANY	DOC. 329866, V.75, P.399	30	20' WIDE EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET

COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04

CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.08

PS&E SHEET 77

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.08

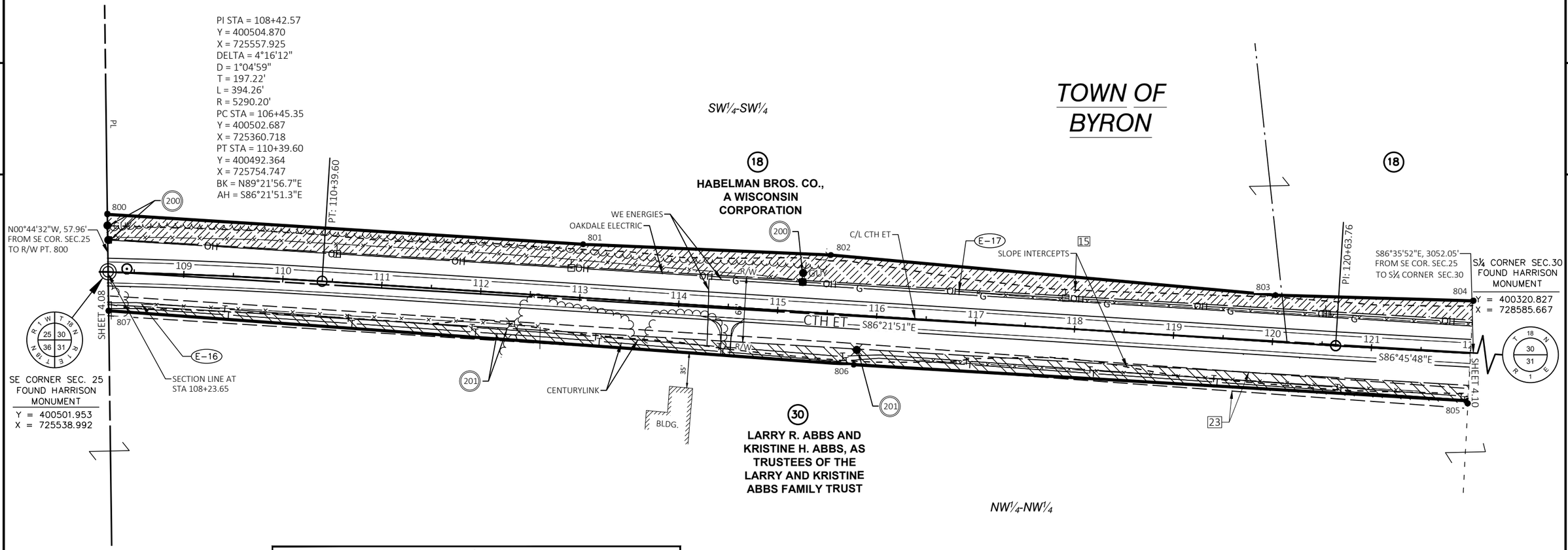
PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
800	108+21.59	58.23'LT	400559.913	725538.241
801	113+00.00	54.00'LT	400529.743	726018.039
802	115+50.00	59.00'LT	400518.879	726267.857
803	120+00.00	47.00'LT	400478.367	726716.190
804	122+00.00	53.00'LT	400472.642	726915.860
805	122+00.00	48.00'RT	400371.803	726910.158
806	115+80.00	50.00'RT	400408.196	726290.880
807	108+25.04	38.99'RT	400462.647	725539.501

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
800 TO 801	S86° 24' 07"E	480.75'
801 TO 802	S87° 30' 36"E	250.05'
802 TO 803	S84° 50' 12"E	450.16'
803 TO 804	S88° 21' 27"E	199.75'
804 TO 805	S03° 14' 12"W	101.00'
805 TO 806	N86° 38' 12"W	620.35'
806 TO 807	N85° 51' 18"W	753.35'
807 TO 800	N00° 44' 32"W	97.27'

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-16	LARRY R. ABBS AND KRISTINE H. ABBS, AS TRUSTEES OF THE LARRY AND KRISTINE ABBS FAMILY TRUST	108+58 - 112+62, 31.4' - 32.1' RT.	FENCE
E-17	HABELMAN BROS. CO., A WISCONSIN CORPORATION	116+80 - 122+54, 28.6' - 30.8' LT.	FENCE



SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
18	HABELMAN BROS. CO, A WISCONSIN CORPORATION	FEE	0.70	1.04	1.74	-
30	LARRY R. ABBS AND KRISTINE H. ABBS, AS TRUSTEES OF THE LARRY AND KRISTINE ABBS FAMILY TRUST	FEE	0.43	1.04	1.47	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
15	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203399	18	BLANKET EASEMENT
23	NORTH-WEST TELEPHONE COMPANY	DOC. 329566, V.75, P.252	30	20' WIDE EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET
0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.09
PS&E SHEET 78

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.09

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

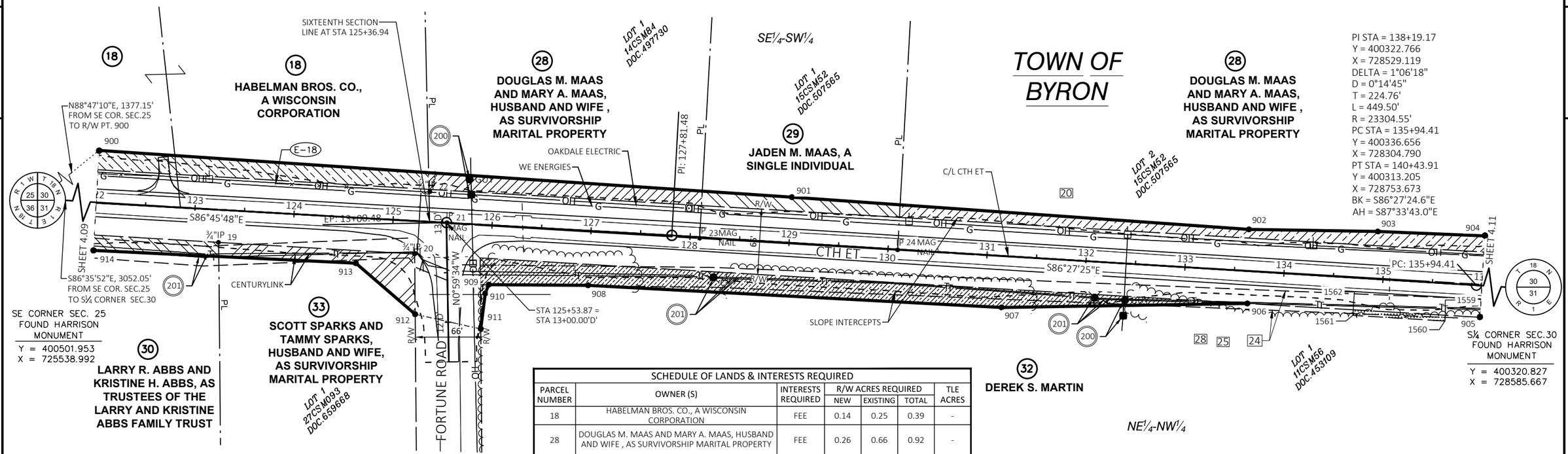
WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
900	122+00.00	53.00'LT	400472.642	726915.860
901	129+00.00	46.00'LT	400425.483	727614.554
902	133+62.00	42.00'LT	400392.939	728075.424
903	134+92.00	48.00'LT	400390.893	728205.540
904	136+00.01	50.18'LT	400386.393	728313.471
905	136+00.00	32.12'RT	400304.253	728308.394
906	133+65.00	32.64'RT	400318.252	728073.801
907	131+18.00	52.00'RT	400314.198	727826.078
908	127+00.00	55.00'RT	400336.584	727408.962
909	126+00.00	60.00'RT	400337.238	727308.841
910	125+97.00	69.00'RT	400328.422	727305.330
911	125+94.47	105.00'RT	400292.622	727300.781
912	125+27.61	94.00'RT	400307.379	727234.646
913	124+65.00	46.00'RT	400358.838	727174.847
914	122+00.00	48.00'RT	400371.803	726910.158

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1559	135+65.00	32.20'RT	400306.331	728273.450
1560	135+65.00	38.00'RT	400300.546	728273.090
1561	134+72.00	38.00'RT	400306.294	728180.271
1562	134+72.00	32.43'RT	400311.849	728180.615

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
19	123+25.48	32.83'RT	400379.861	727036.289
20	125+23.53	33.46'RT	400368.054	727233.993
21	125+54.53	0.07'LT	400399.777	727266.830
22	125+35.36	30.24'LT	400430.986	727249.398
23	128+09.78	1.07'RT	400384.077	727521.593
24	130+09.72	0.52'RT	400372.268	727721.192

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
900 TO 901	S86° 08' 19"E	700.28'
901 TO 902	S85° 57' 39"E	462.02'
902 TO 903	S89° 05' 58"E	130.13'
903 TO 904	S87° 36' 44"E	108.02'
904 TO 905	S03° 32' 11"W	82.30'
905 TO 906	N86° 35' 06"W	235.01'
906 TO 907	S89° 03' 45"W	247.76'
907 TO 908	N86° 55' 41"W	417.72'
908 TO 909	N89° 37' 33"W	100.12'
909 TO 910	S21° 42' 39"W	9.49'
910 TO 911	S07° 14' 34"W	36.09'
911 TO 912	N77° 25' 15"W	67.76'
912 TO 913	N49° 17' 13"W	78.89'
913 TO 914	N87° 11' 45"W	265.01'
914 TO 900	N03° 14' 12"E	101.00'



ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
(E-18)	HABELMAN BROS. CO., A WISCONSIN CORPORATION	123+79 - 124+79, 29.5' - 30.2' LT.	FENCE

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
18	HABELMAN BROS. CO., A WISCONSIN CORPORATION	FEE	0.14	0.25	0.39	-
28	DOUGLAS M. MAAS AND MARY A. MAAS, HUSBAND AND WIFE , AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.26	0.66	0.92	-
29	JADEN M. MAAS, A SINGLE INDIVIDUAL	FEE	0.06	0.15	0.21	-
30	LARRY R. ABBS AND KRISTINE H. ABBS, AS TRUSTEES OF THE LARRY AND KRISTINE ABBS FAMILY TRUST	FEE	0.04	0.09	0.13	-
32	DEREK S. MARTIN	FEE, TLE	0.31	0.84	1.15	0.01
33	SCOTT SPARKS AND TAMMY SPARKS, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.10	0.22	0.32	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
20	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203400	29,31	BLANKET EASEMENT
24	NORTH-WEST TELEPHONE COMPANY	DOC. 329567, V.75, P.254	32	20' WIDE EASEMENT
25	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203401	32	BLANKET EASEMENT
28	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203402	32	BLANKET EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET

COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04

CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.10

PS&E SHEET 79

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.10

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

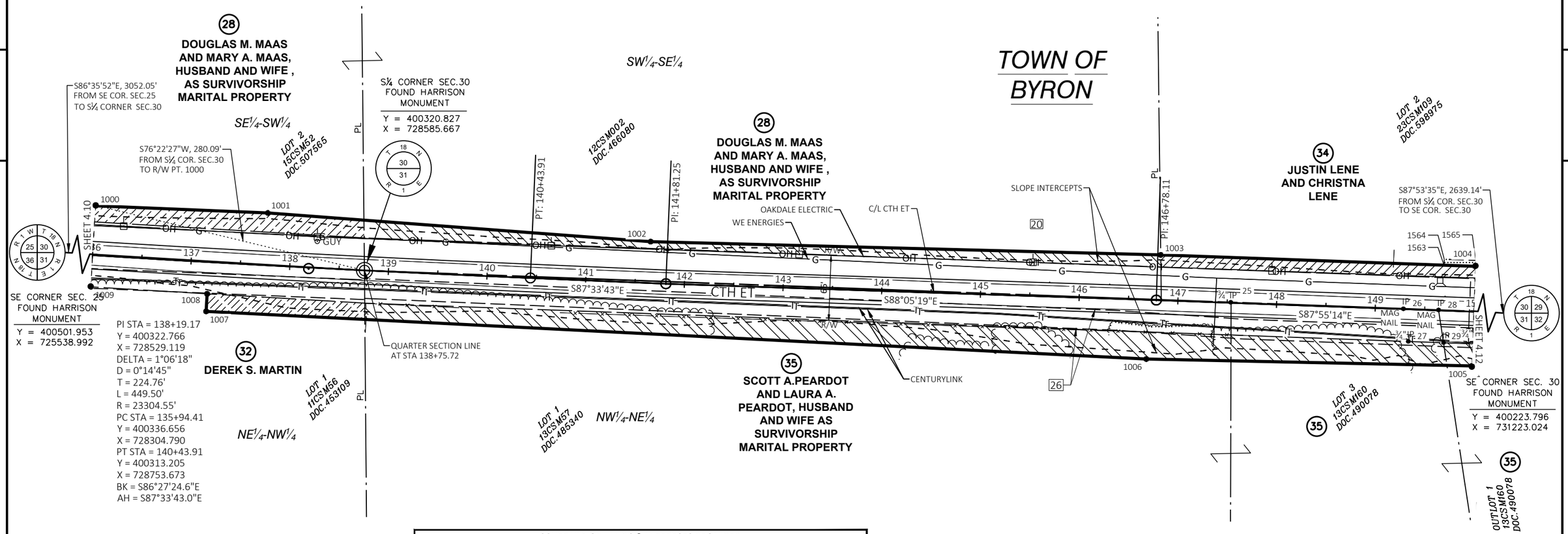
WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1000	136+00.00	50.18'LT	400386.393	728313.461
1001	137+75.00	53.00'LT	400379.117	728487.944
1002	141+64.00	42.00'LT	400350.059	728875.444
1003	146+80.98	46.00'LT	400336.657	729392.014
1004	150+00.00	46.00'LT	400325.081	729710.82
1005	150+00.00	55.00'RT	400224.148	729707.154
1006	146+70.00	60.00'RT	400231.095	729377.369
1007	137+18.00	50.00'RT	400279.425	728425.338
1008	137+18.00	32.18'RT	400297.216	728426.343
1009	136+00.00	32.12'RT	400304.253	728308.394

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1563	149+68.00	46.00'LT	400326.242	729678.841
1564	149+68.00	52.00'LT	400332.239	729679.061
1565	150+00.00	51.98'LT	400331.052	729711.041

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
25	147+53.62	0.51'LT	400288.559	729462.949
26	149+28.58	0.34'LT	400282.045	729637.789
27	149+34.67	32.53'RT	400248.977	729642.680
28	149+64.12	0.42'LT	400280.828	729673.311
29	149+70.41	32.47'RT	400247.742	729678.402

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
1000 TO 1001	S87° 36' 44"E	174.63'
1001 TO 1002	S85° 42' 41"E	388.59'
1002 TO 1003	S88° 30' 50"E	516.74'
1003 TO 1004	S87° 55' 14"E	319.02'
1004 TO 1005	S02° 04' 46"W	102.25'
1005 TO 1006	N88° 55' 24"W	100.02'
1006 TO 1007	N87° 21' 09"W	1183.03'
1007 TO 1008	N03° 13' 50"E	17.82'
1008 TO 1009	N86° 35' 09"W	118.16'
1009 TO 1000	N03° 31' 46"E	82.30'



SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
28	DOUGLAS M. MAAS AND MARY A. MAAS, HUSBAND AND WIFE , AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.31	0.82	1.13	-
32	DEREK S. MARTIN	FEE	0.06	0.21	0.27	-
34	JUSTIN LENE AND CHRISTINA LENE	FEE, TLE	0.09	0.24	0.33	0.004
35	SCOTT A.PEARDOT AND LAURA A. PEARDOT, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.58	0.85	1.43	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
20	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203400	28,34	BLANKET EASEMENT
26	NORTH-WEST TELEPHONE COMPANY	DOC. 329708, V.75, P.335	35	20' WIDE EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET
0 50 100

HWY: CTH ET
COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04
CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.11
PS&E SHEET 80

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.11

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1100	150+00.00	46.00'LT	400325.081	729710.820
1101	162+74.00	54.00'LT	400286.371	730984.462
1102	164+00.00	54.87'LT	400282.037	731110.509
1103	163+99.98	53.84'RT	400173.417	731105.892
1104	163+75.00	53.00'RT	400175.312	731080.987
1105	159+00.00	58.00'RT	400188.495	730606.454
1106	153+00.00	51.00'RT	400217.260	730007.098
1107	150+00.00	55.00'RT	400224.148	729707.154

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
30	151+25.69	32.39'RT	400242.183	729833.579
31	151+25.07	0.37'LT	400274.943	729834.148
33	153+90.66	0.25'LT	400265.185	730099.561
34	153+87.73	32.65'RT	400232.413	730095.441

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
1100 TO 1101	S88° 15' 33"E	1274.23'
1101 TO 1102	S88° 01' 51"E	126.12'
1102 TO 1103	S02° 26' 03"W	108.72'
1103 TO 1104	N85° 39' 01"W	24.98'
1104 TO 1105	N88° 24' 31"W	474.72'
1105 TO 1106	N87° 15' 08"W	600.05'
1106 TO 1107	N88° 41' 04"W	300.02'
1107 TO 1100	N02° 04' 47"E	101.00'

ENCROACHMENT TABLE			
ENCROACHMENT	PROPERTY OWNER	LOCATION (STATION OFFSET)	ENCROACHMENT TYPE
E-19	HABELMAN BROS. CO., A WISCONSIN CORPORATION	158+13 - 160+66, 32.4' - 33.6' LT.	FENCE

GN

4

4

TOWN OF BYRON

SW¼-SE¼

34
JUSTIN LENEAND CHRISTNA LENE

LOT 2 23CSM109 DOC.598975

N89°45'44"E, 1125.16' FROM S¼ COR. SEC.30 TO R/W PT. 1100

S87°53'35"E, 2639.14' FROM S¼ COR. SEC.30 TO SE COR. SEC.30

SE¼-SE¼

18
HABELMAN BROS. CO., A WISCONSIN CORPORATION

SECTION LINE AT STA 151+95.28

OAKDALE ELECTRIC

WE ENERGIES

C/L CTH ET

E-19

15

PC: 160+35.25

SE CORNER SEC. 30
FOUND HARRISON MONUMENT
Y = 400223.796
X = 731223.024

S¼ CORNER SEC.30
FOUND HARRISON MONUMENT
Y = 400320.827
X = 728585.667

LOT 2 13CSM129 DOC.488666

35
SCOTT A.PEARDOT AND LAURA A. PEARDOT, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY

NW¼-NE¼

LOT 1 12CSM228 DOC.480130

37
SHARON M. MORRISON, A SINGLE PERSON, AS INDIVIDUAL PROPERTY

NE¼-NE¼

CENTURYLINK

201

SLOPE INTERCEPTS

26

36
DARIN L. GREENO AND RENEE M. GREENO, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY

SHEET 4.11

SHEET 4.13

PI STA = 167+67.75
Y = 400214.971
X = 731475.737
DELTA = 1°23'30"
D = 0°05'42"
T = 732.50'
L = 1464.93'
R = 60307.94'
PC STA = 160+35.25
Y = 400241.549
X = 730743.720
PT STA = 175+00.18
Y = 400170.622
X = 732206.892
BK = S87°55'14.4"E
AH = S86°31'44.0"E

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
18	HABELMAN BROS. CO., A WISCONSIN CORPORATION	FEE	0.49	0.91	1.40	-
34	JUSTIN LENE AND CHRISTINA LENE	FEE	0.06	0.15	0.21	-
35	SCOTT A.PEARDOT AND LAURA A. PEARDOT, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.06	0.09	0.15	-
36	DARIN L. GREENO AND RENEE M. GREENO, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.52	0.77	1.29	-
37	SHARON M. MORRISON, A SINGLE PERSON, AS INDIVIDUAL PROPERTY	FEE	0.12	0.20	0.32	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
15	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203399	18	BLANKET EASEMENT
26	NORTH-WEST TELEPHONE COMPANY	DOC. 329708, V.75, P.335	36	20' WIDE EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET

COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04

CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.12

PS&E SHEET 81

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.12

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
1200 TO 1201	S88° 01' 42"E	113.11'
1201 TO 1202	S86° 44' 16"E	736.67'
1202 TO 1203	S85° 38' 52"E	551.28'
1203 TO 1204	S03° 28' 55"W	98.14'
1204 TO 1205	N86° 45' 07"W	1112.75'
1205 TO 1206	N88° 17' 53"W	168.52'
1206 TO 1207	N85° 39' 01"W	117.79'
1207 TO 1200	N02° 26' 03"E	108.72'

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1200	164+00.00	54.87'LT	400282.037	731110.509
1201	165+13.00	55.88'LT	400278.145	731223.551
1202	172+49.00	51.00'LT	400236.226	731959.023
1203	178+00.00	42.00'LT	400194.392	732508.712
1204	177+99.99	56.14'RT	400096.433	732502.751
1205	166+86.47	54.99'RT	400159.479	731391.785
1206	165+17.82	57.68'RT	400164.484	731223.342
1207	163+99.98	53.84'RT	400173.417	731105.892

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1566	165+13.00	60.00'LT	400282.266	731223.729
1567	165+50.00	60.00'LT	400280.617	731260.730
1568	165+50.00	55.68'LT	400276.304	731260.535
1569	172+49.00	56.00'LT	400241.219	731959.302
1570	172+72.00	56.00'LT	400239.916	731982.286
1571	172+72.00	51.00'LT	400234.923	731982.008
1572	165+05.00	57.25'RT	400165.484	731210.567
1573	165+05.00	66.00'RT	400156.741	731210.180
1574	164+67.00	66.00'RT	400158.402	731172.256
1575	164+67.00	56.05'RT	400168.344	731172.695

FOUND POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
35	165+13.10	34.62'LT	400256.904	731222.715
36	168+46.97	1.95'RT	400204.692	731554.584
37	168+44.98	31.06'LT	400237.764	731554.236

GN

PI STA = 167+67.75
Y = 400214.971
X = 731475.737
DELTA = 1°23'30"
D = 0°05'42"
T = 732.50'
L = 1464.93'
R = 60307.94'
PC STA = 160+35.25
Y = 400241.549
X = 730743.720
PT STA = 175+00.18
Y = 400170.622
X = 732206.892
BK = S87°55'14.4"E
AH = S86°31'44.0"E

TOWN OF BYRON

SE¼-SE¼ | SW¼-SW¼ | NE¼-NE¼ | NW¼-NW¼

LOT 2 19CSM077 DOC.554058

LOT 2 19CSM077 DOC.554058

SE CORNER SEC. 30 FOUND HARRISON MONUMENT
Y = 400223.796
X = 731223.024

S¼ CORNER SEC.30 FOUND HARRISON MONUMENT
Y = 400320.827
X = 728585.667

S¼ CORNER SEC.29 FOUND HARRISON MONUMENT
Y = 400070.297
X = 733875.660

N62°28'00"W, 126.89' FROM S¼ COR. SEC.30 TO R/W PT. 1200

N87°53'35"E, 2639.14' FROM S¼ COR. SEC.30 TO SE COR. SEC.30

S86°41'17"E, 2657.07' FROM SE COR. SEC.30 TO S¼ COR. SEC.29

S86°31'44"E

1/16TH SECTION LINE AT STA 165+14.98

SLOPE INTERCEPTS

PT: 175+00.18

C/L CTH ET

CTH ET

RAILROAD SPIKE

OAKDALE ELECTRIC

WE ENERGIES

CENTURYLINK

SHEET 4.12

SHEET 4.14

(18) **HABELMAN BROS. CO., A WISCONSIN CORPORATION**

(38) **PHILLIP HOLLOWAY, A SINGLE PERSON, AS INDIVIDUAL PROPERTY**

(39) **BRIAN C. OLSEN AND KAREN J. OLSEN HUSBAND AND WIFE**

(36) **DARIN L. GREENO AND RENEE M. GREENO, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY**

(40) **DAN CUNNINGHAM AND BONI CUNNINGHAM, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY**

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
18	HABELMAN BROS. CO., A WISCONSIN CORPORATION	FEE	0.05	0.09	0.14	-
36	DARIN L. GREENO AND RENEE M. GREENO, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.06	0.09	0.15	0.008
38	PHILLIP HOLLOWAY, A SINGLE PERSON, AS INDIVIDUAL PROPERTY	FEE	0.16	0.25	0.41	0.004
39	BRIAN C. OLSEN AND KAREN J. OLSEN HUSBAND AND WIFE	FEE, TLE	0.42	0.72	1.14	0.003
40	DAN CUNNINGHAM AND BONI CUNNINGHAM, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE, TLE	0.63	0.97	1.6	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
27	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203398	38,39	BLANKET EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023 N.C.

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET

COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04

CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.13

PS&E SHEET 82

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.13

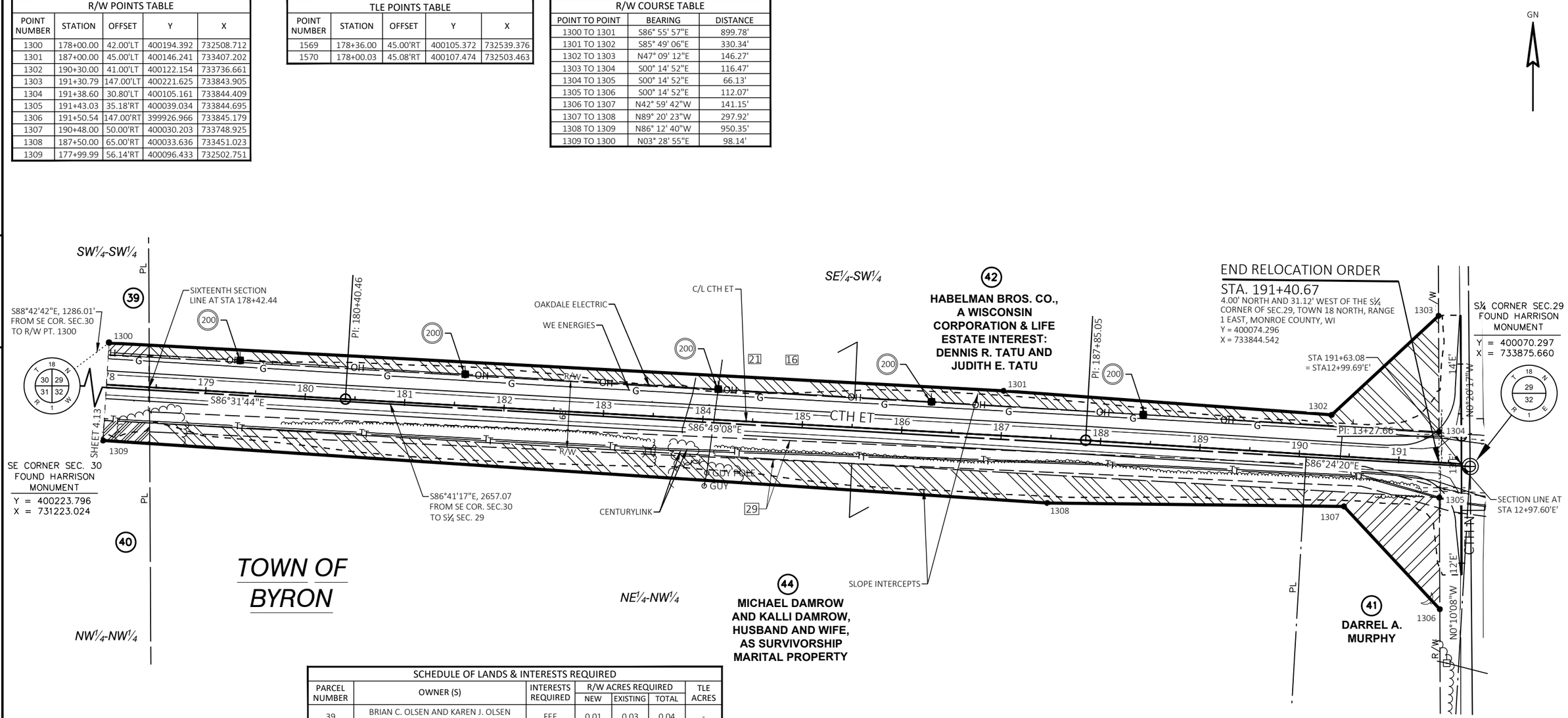
PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

R/W POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1300	178+00.00	42.00'LT	400194.392	732508.712
1301	187+00.00	45.00'LT	400146.241	733407.202
1302	190+30.00	41.00'LT	400122.154	733736.661
1303	191+30.79	147.00'LT	400221.625	733843.905
1304	191+38.60	30.80'LT	400105.161	733844.409
1305	191+43.03	35.18'RT	400039.034	733844.695
1306	191+50.54	147.00'RT	399926.966	733845.179
1307	190+48.00	50.00'RT	400030.203	733748.925
1308	187+50.00	65.00'RT	400033.636	733451.023
1309	177+99.99	56.14'RT	400096.433	732502.751

TLE POINTS TABLE				
POINT NUMBER	STATION	OFFSET	Y	X
1569	178+36.00	45.00'RT	400105.372	732539.376
1570	178+00.03	45.08'RT	400107.474	732503.463

R/W COURSE TABLE		
POINT TO POINT	BEARING	DISTANCE
1300 TO 1301	S86° 55' 57"E	899.78'
1301 TO 1302	S85° 49' 06"E	330.34'
1302 TO 1303	N47° 09' 12"E	146.27'
1303 TO 1304	S00° 14' 52"E	116.47'
1304 TO 1305	S00° 14' 52"E	66.13'
1305 TO 1306	S00° 14' 52"E	112.07'
1306 TO 1307	N42° 59' 42"W	141.15'
1307 TO 1308	N89° 20' 23"W	297.92'
1308 TO 1309	N86° 12' 40"W	950.35'
1309 TO 1300	N03° 28' 55"E	98.14'



SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER (S)	INTERESTS REQUIRED	R/W ACRES REQUIRED			TLE ACRES
			NEW	EXISTING	TOTAL	
39	BRIAN C. OLSEN AND KAREN J. OLSEN HUSBAND AND WIFE	FEE	0.01	0.03	0.04	-
40	DAN CUNNINGHAM AND BONI CUNNINGHAM, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE,TLE	0.02	0.03	0.05	-
41	DARREL A. MURPHY	FEE	0.15	0.10	0.25	-
42	HABELMAN BROS. CO., A WISCONSIN CORPORATION & LIFE ESTATE INTEREST: DENNIS R. TATU AND JUDITH E. TATU	FEE	0.53	0.98	1.51	-
44	MICHAEL DAMROW AND KALLI DAMROW, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE	0.64	0.88	1.52	-
200	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	RELEASE OF RIGHTS				
201	CENTURYLINK	RELEASE OF RIGHTS				

NOTE: AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED. OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO MONROE COUNTY.

EASEMENT TABLE				
EASEMENT NUMBER	OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL #	REMARKS
16	NORTH-WEST TELEPHONE COMPANY	DOC. 329708, V.75, P.335	18	BLANKET EASEMENT
21	OAKDALE COOPERATIVE ELECTRIC ASSOCIATION	DOC. 203397	18	BLANKET EASEMENT
29	NORTH-WEST TELEPHONE COMPANY	DOC. 329709, V.75, P.337	18	20' WIDE EASEMENT

NOTE: EXISTING C/L OF CTH ET BASED ON CENTERLINE OF EXISTING PAVEMENT.

EXISTING RIGHT-OF-WAY FOR CTH ET BASED ON THE CENTERLINE OF EXISTING PAVEMENT, PREVIOUS CSM AND PLAT SURVEYS AND FOUND MONUMENTATION SHOWN ON SHEETS AND WIS. STATUTE 82.31(2).

REVISION DATE
8-4-2023
10-4-2023

DATE 10/4/2023

SCALE, FEET 0 50 100

HWY: CTH ET

COUNTY: MONROE

STATE R/W PROJECT NUMBER 7373-00-04

CONSTRUCTION PROJECT NUMBER 7373-00-74

PLAT SHEET 4.14

PS&E SHEET 83

E

FILE NAME : M08455 CTH ET PLAT.DWG
LAYOUT NAME - 4.14

PLOT DATE : 10/4/2023 7:28 AM PLOT BY : TIM VELTE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

SHERYLL LEIS

DEBORAH THOMAS

KEITH STORKEL
MARY STORKEL

ISLAOLLY RENTALS, LLC

BEVERLY LINENBERG

RUTH ANN LINENBERG

ARLENE PIERCE

KING FAMILY IRREVOCABLE TRUST

STA. 14+00 - STA. 15+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 13+95, LT.
REMOVE 15" CMCP

STA. 13+96, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 15+28, LT.
REMOVE 15" CMCP

STA. 15+28, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 16+47, LT.
REMOVE 15" CMCP

STA. 16+47, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 19+30, LT.
REMOVE 15" CMCP

STA. 19+32, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 21+28, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 21+34, LT.
REMOVE 15" CMCP

STA. 24+01 - STA. 26+25, LT.
CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J

STA. 23+78
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 39° RHF

STA. 24+54, LT.
P.E. REQ'D (B.A.D.)

REMOVING SMALL PIPE CULVERTS
STA. 24+45, LT.
REMOVE 15" CMCP

STA. 24+33, LT.
P.E. REQ'D (ASPHALT)

STA. 26+00 - STA. 27+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 25+67, LT.
REMOVE 15" CMCP

EXISTING RETAINING WALLS AND TIMBER STEPS TO REMAIN

STA. 25+67, LT.
P.E. REQ'D (ASPHALT)

STA. 26+25, LT.
ASPHALTIC FLUME REQ'D

STA. 26+82, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

EXISTING C/L CTH ET
GRADE TO DRAIN
96°00'23"
BM 1
EXISTING DECIDUOUS TREE TO REMAIN
WE ENERGIES (TYP.)
SLOPE INTERCEPTS
BRIGHTSPEED (TYP.)
FINISHED C/L CTH ET
EXISTING DECIDUOUS TREE TO REMAIN
STA. 23+00 - STA. 24+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D
EXISTING RETAINING WALL BLOCKS AND DECIDUOUS TREES TO REMAIN
EXISTING SATELLITE DISH AND FLAG POLE TO REMAIN
EXISTING SATELLITE DISH TO REMAIN
TLE REQ'D
HOUSE
TLE REQ'D
R/W
N89°52'49"E
MATCH LINE STA. 27+00
N

TLE REQ'D
STA. 15+00 - STA. 16+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D
STA. 14+38, RT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 15-INCH
(2) APRON ENDWALLS REQ'D
STA. 17+15, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D
REMOVING SMALL PIPE CULVERTS
STA. 17+15, RT.
REMOVE 15" CMCP
STA. 19+24, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D
REMOVING SMALL PIPE CULVERTS
STA. 19+24, RT.
REMOVE 15" CMCP
OAKDALE ELECTRIC COOP (TYP.)
BRIGHTSPEED (TYP.)
96°37'46"
STA. 22+23, RT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D
REMOVING SMALL PIPE CULVERTS
STA. 22+22, RT.
REMOVE 15" CMCP
TLE REQ'D
EXISTING 4" PVC DISCHARGE PIPE (SEE CONSTRUCTION DETAILS FOR ADJUSTMENTS)
REMOVING SMALL PIPE CULVERTS
STA. 26+50
REMOVE 36" CMCP
(2) REMOVING DELINEATORS & MARKERS REQ'D
STA. 26+50
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 36-INCH 4 TO 1 REQ'D
SKEW = 0°
STA. 26+25, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D
STA. 26+68, RT.
F.E. REQ'D (B.A.D.)
STA. 24+80 - STA. 26+40, RT.
REMOVING FENCE BY OTHERS
WETLAND DETERMINATION (TYP.)

EXISTING C/L 'A'-LINE (FORBES RD)

BEGIN PROJECT
STA. 13+89.89
Y = 401,144.04
X = 716,312.27

ALICIA CARTWRIGHT

JONATHON GREENO

THOMAS DUMMERMUTH
TAMMY DUMMERMUTH

RONALD FORBUSH
DEBORAH FORBUSH

KING FAMILY IRREVOCABLE TRUST

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	15+61	1" IRON PIPE FOUND, 34.4' LT.	941.79

LEGEND
- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

L=180.00
K=413.87
-0.64%
PI STA 14+85.00
EL 942.83
-0.20%
PC STA 18+95.00
EL 942.01
PT STA 20+75.00
EL 941.38
PI STA 19+85.00
EL 941.83
EXISTING C/L CTH ET
FINISHED C/L CTH ET
-0.50%
L=205.00
K=136.98
PI STA 27+00.00
EL 938.28
MATCH EXISTING
STA. 13+89.89
EL. 943.44
PC STA 13+95.00
EL 943.40
PT STA 15+75.00
EL 942.65
L=180.00
K=610.10
PC STA 25+97.50
EL 938.79
EXISTING C/L ELEVATION CTH ET
FINISHED C/L ELEVATION CTH ET

960 955 950 945 940 935 930 925 920

944.11 944.03 943.92 943.66 943.37 943.37 943.06 943.09 942.75 942.87 942.67 942.71 942.59 942.60 942.46 942.50 942.33 942.40 942.35 942.30 942.37 942.20 942.35 942.10 942.33 942.00 942.25 941.87 942.16 941.70 941.89 941.50 941.62 941.25 941.16 941.01 940.70 940.76 940.25 940.51 939.81 940.26 939.57 940.01 939.35 939.77 939.32 939.52 939.29 939.27 939.28 939.02 939.26 938.77 938.96 938.63 938.92 938.66

12+00 12+50 13+00 13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50 22+00 22+50 23+00 23+50 24+00 24+50 25+00 25+50 26+00 26+50 27+00

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 84	E

BRIAN JERDEE
MICHELLE JERDEE

REMOVING SMALL PIPE CULVERTS
STA. 27+69
REMOVE 18" CMCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 28+00
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°

STA. 31+00 - STA. 33+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 32+84, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 38+02, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 39+00 - STA. 41+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 40+50 - STA. 44+00, LT.
CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J

STA. 39+40, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

EUGENE FINCH
VICKI FINCH

STA. 41+10 - STA. 41+99, LT.
REMOVING FENCE BY OTHERS

STA. 40+49 - STA. 43+77, LT.
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

STA. 40+64, LT.
P.E. REQ'D (ASPHALT)

COLLAPSED SEPTIC TANK TO BE REMOVED BY OTHERS
TLE REQ'D
EXISTING FLAGPOLE TO BE REMOVED BY OTHERS

EXISTING FLAGPOLE TO BE REMOVED BY OTHERS

N

MATCH LINE STA. 27+00

MATCH LINE STA. 42+00

~AGRICULTURAL FIELD~

TLE REQ'D

WE ENERGIES (TYP.)

103°15'57"

R/W

SLOPE INTERCEPTS

~AGRICULTURAL FIELD~

N89°52'49"E

P.L.

P.L.

P.L.

28 29 30 31 32 33 34 35 36 37 38 39 40 41

R/W

84°46'55"

R/W

TLE REQ'D

~AGRICULTURAL FIELD~

FINISHED C/L CTH ET

OAKDALE ELECTRIC COOP (TYP.)

~AGRICULTURAL FIELD~

BRIGHTSPEED (TYP.)

STA. 29+08, RT.
F.E. REQ'D (B.A.D.)

WETLAND DETERMINATION (TYP.)

STA. 33+02, RT.
F.E. REQ'D (B.A.D.)

STA. 33+56, RT.
P.E. REQ'D (B.A.D.)

STA. 39+95 - STA. 52+86, RT.
REMOVING FENCE BY OTHERS

BRIAN JERDEE
MICHELLE JERDEE

OCEAN SPRAY
CRANBERRIES, INC

5

5

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

WETLANDS

955 950 945 940 935 930 925 920 915

L=205.00
K=136.98

PC STA 30+35.00
EL 941.63

PT STA 32+65.00
EL 942.21

PI STA 31+50.00
EL 942.78

1.00%

FINISHED C/L CTH ET

-0.50%

PI STA 27+00.00
EL 938.28

PT STA 28+02.50
EL 939.30

L=230.00
K=153.68

EXISTING C/L CTH ET

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00	32+50	33+00	33+50	34+00	34+50	35+00	35+50	36+00	36+50	37+00	37+50	38+00	38+50	39+00	39+50	40+00	40+50	41+00	41+50	42+00
938.92	938.66	938.59	938.88	938.28	939.28	938.37	939.78	938.51	940.28	938.90	940.78	939.30	941.28	939.66	941.77	939.74	942.14	939.58	942.35	939.43	942.40	939.15	942.28	938.87	942.04	938.66	941.79	938.44	941.54	938.01	941.29	937.62	941.04	937.54	940.80	937.48	940.55	937.42	940.30	937.37	940.05	937.40	939.80	937.43	939.56	937.50	939.31	937.58	939.06	937.53	938.81	937.49	938.56	937.69	938.32	937.87	938.07	937.72	937.82	937.57	937.57

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_CTH ET.DWG
PLOT DATE : 12/22/2023 8:02:08 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 02

EUGENE FINCH
VICKI FINCH

OCEAN SPRAY
CRANBERRIES, INC

LINDA L GOTTBEGEUT
TRUST

N

MATCH LINE STA. 42+00

MATCH LINE STA. 57+00

STA. 42+00 - STA. 44+00, LT.
CLEARING (BY OTHERS) &
GRUBBING REQ'D

STA. 40+49 - STA. 43+77, LT.
(1) CULVERT PIPE REINFORCED CONCRETE CLASS
IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED
SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

STA. 43+62, LT.
F.E. REQ'D (ASPHALT)

EXISTING POOL
TO REMAIN

POOL

TLE REQ'D

BM 2

BRIGHTSPEED (TYP.)

STA. 42+75, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 43+93 - STA. 45+47, LT.
REMOVING FENCE BY OTHERS

STA. 40+50 - STA. 44+00, LT.
CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J

STA. 44+00, LT.
ASPHALTIC FLUME REQ'D

EXISTING SIGN TO BE
REMOVED BY OTHERS

WE ENERGIES
(DISCONTINUED GAS SERVICE)

STA. 46+48, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

104°08'31"

~AGRICULTURAL FIELD~

STA. 47+90 - STA. 52+86, LT.
REMOVING FENCE BY OTHERS

~AGRICULTURAL FIELD~

STA. 46+00 - STA. 55+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

WE ENERGIES (TYP.)

SLOPE INTERCEPTS

R/W

N89°52'49"E

FINISHED C/L CTH ET

R/W

OAKDALE ELECTRIC COOP (TYP.)

BRIGHTSPEED (TYP.)

STA. 39+95 - STA. 52+86, RT.
REMOVING FENCE BY OTHERS

STA. 51+00 - STA. 52+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

WETLAND DETERMINATION (TYP.)

STA. 52+86 - STA. 53+78, LT.
REMOVING FENCE BY OTHERS

STA. 55+48 - STA. 59+49, LT.
REMOVING FENCE BY OTHERS

STA. 56+00 - STA. 62+00, LT.
CLEARING (BY OTHERS) &
GRUBBING REQ'D

STA. 55+36, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED
SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

OAKDALE ELECTRIC COOP (TYP.)

~AGRICULTURAL FIELD~

~AGRICULTURAL FIELD~

STA. 52+86 - STA. 59+31, RT.
REMOVING FENCE REQ'D

STA. 55+67, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED
SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

OCEAN SPRAY
CRANBERRIES, INC

LINDA L GOTTBEGEUT
TRUST

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
2	43+14	3/4" IRON REBAR SET, 28.4' RT.	936.72

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

WETLANDS

L=180.00
K=474.51

EXISTING C/L CTH ET

PI STA 46+40.00
EL 935.39

PC STA 45+50.00
EL 935.83

PT STA 47+30.00
EL 935.28

FINISHED C/L CTH ET

-0.12%

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

955 950 945 940 935 930 925 920 915

937.57 937.57 | 937.28 937.32 | 937.01 937.08 | 936.76 936.83 | 936.52 936.58 | 936.29 936.33 | 936.06 936.08 | 935.84 935.83 | 935.63 935.61 | 935.46 935.44 | 935.30 935.33 | 935.27 935.26 | 935.24 935.20 | 935.21 935.14 | 935.18 935.08 | 935.14 935.03 | 935.11 934.97 | 935.07 934.91 | 935.03 934.85 | 935.05 934.79 | 935.05 934.73 | 935.05 934.68 | 935.03 934.62 | 934.84 934.56 | 934.66 934.50 | 934.60 934.44 | 934.53 934.38 | 934.47 934.33 | 934.41 934.27 | 934.41 934.21 | 934.38 934.15

42+00 42+50 43+00 43+50 44+00 44+50 45+00 45+50 46+00 46+50 47+00 47+50 48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50 53+00 53+50 54+00 54+50 55+00 55+50 56+00 56+50 57+00

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET	86	E

LINDA L GOTTBEGEUT TRUST

DARLENE FOWLER
CHARLEY WOOD JR

THOMAS POWELL
ELISA POWELL

STA. 61+03, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

EXISTING C/L 'B'-LINE (FORMICA RD)

FINISHED C/L 'B'-LINE (FORMICA RD)

~ AGRICULTURAL FIELD ~

BRIGHTSPEED (TYP.)

EXISTING SEPTIC VENTS TO REMAIN

STA. 61+00 - STA. 61+50, LT.
INSTALL FENCE SAFETY TO PROTECT EXISTING SEPTIC DRAIN FIELD NORTH OF PROPOSED R/W

STA. 56+00 - STA. 62+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

EXISTING CONIFEROUS PINE TO REMAIN

STA. 55+48 - STA. 59+49, LT.
REMOVING FENCE BY OTHERS

WE ENERGIES (TYP.)

MATCH LINE STA. 57+00

N89°52'49"E

OAKDALE ELECTRIC COOP (TYP.)

BRIGHTSPEED (TYP.)

~ AGRICULTURAL FIELD ~

WETLAND DETERMINATION (TYP.)

STA. 52+86 - STA. 59+31, RT.
REMOVING FENCE REQ'D

STA. 60+00 - STA. 61+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

CURVE 1
PI STA. = 62+45.02
Y = 401,154.18
X = 721,167.38
R = 293.26
D = 19°32'16"
DELTA = 35°36'16"
L = 182.23
T = 94.17
C = 179.32
PC STA. = 61+50.85
Y = 401,153.99
X = 721,073.22
PT STA. = 63+33.08
Y = 401,099.52
X = 721,244.06
S.E. = 5.9%
R.O. = 107'
TRANS. = 143'

STA. 62+89.89 (CTH ET) =
STA. 10'B'+00.00 (FORMICA RD)
(TYPE C INTERSECTION REQ'D)

SLOPE INTERCEPTS

STA. 65+65 - STA. 66+34, RT.
REMOVING GUARDRAIL REQ'D

NET EXCEPTION TO C/L LENGTH
STA. 66+35.99
Y = 400,923.69
X = 721,490.71

HABELMAN BROS CO

STA. 63+20 - STA. 66+40, LT.
REMOVING FENCE BY OTHERS

STA. 65+67 - STA. 66+39, LT.
REMOVING GUARDRAIL REQ'D

FINISHED C/L CTH ET

EXISTING STRUCTURE B-41-157
TO REMAIN

STA. 66+78 - STA. 67+48, LT.
REMOVING GUARDRAIL REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 68+31, LT.
REMOVE 24" RCCP

STA. 68+31, LT.
F.E. REQ'D (B.A.D.)

WE ENERGIES (TYP.)

OAKDALE ELECTRIC COOP (TYP.)

REMOVING SMALL PIPE CULVERTS
STA. 71+24
REMOVE 30" CPCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 71+24
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°

STA. 69+31 - STA. 74+97, LT.
REMOVING FENCE BY OTHERS

TLE REQ'D

S54°30'55"E

BM 3

SOUTH FORK LEMONWEIR RIVER

TLE REQ'D

TLE REQ'D

STA. 66+72 - STA. 67+44, RT.
REMOVING GUARDRAIL REQ'D

NET EXCEPTION TO C/L LENGTH
STA. 66+75.32
Y = 400,900.86
X = 721,522.74

STA. 65+07 - STA. 68+04
MGS GUARDRAIL REQ'D
SEE PLAN DETAILS

STA. 67+00 - STA. 71+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

MATCH LINE STA. 72+00

LINDA L GOTTBEGEUT TRUST

N

5

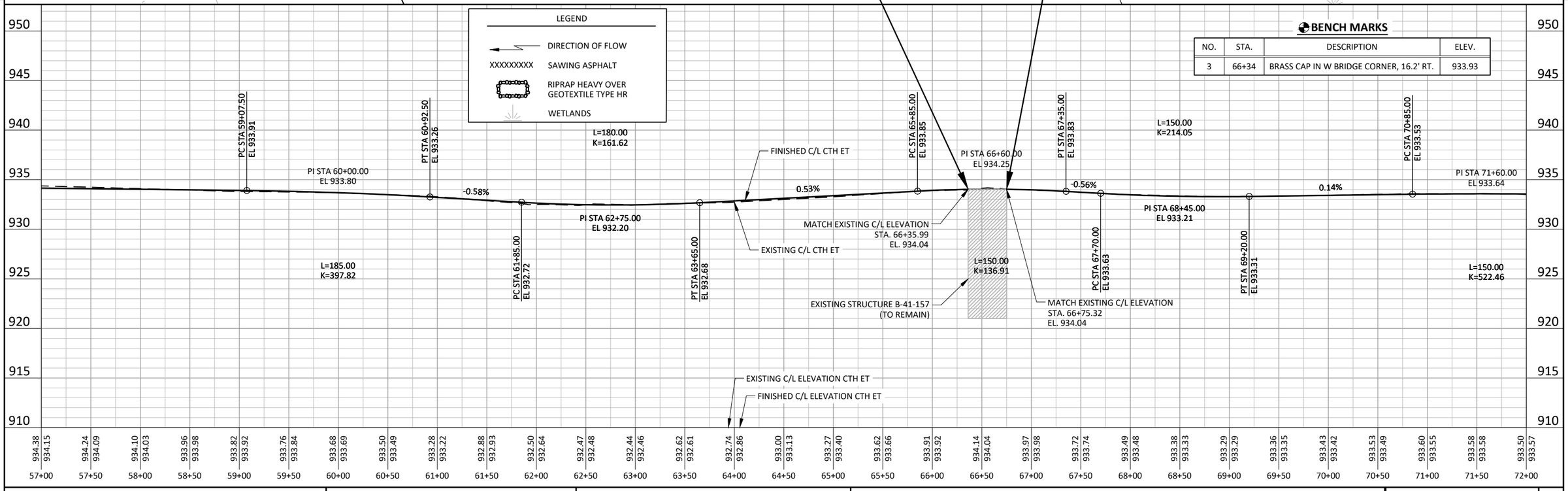
5

LEGEND

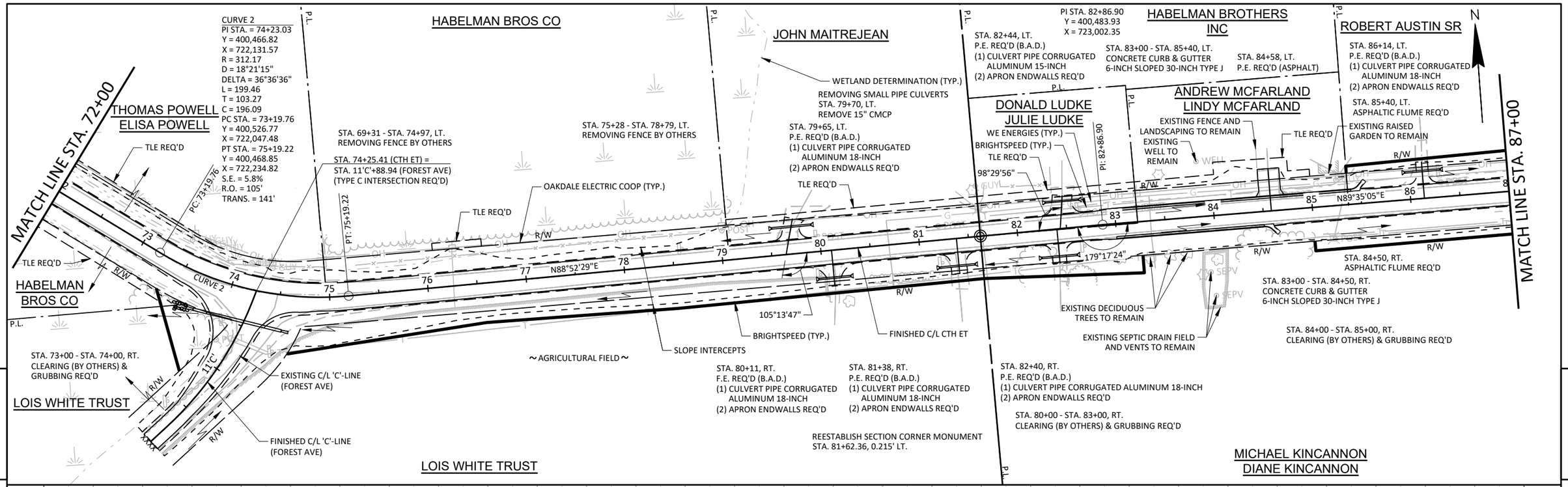
- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

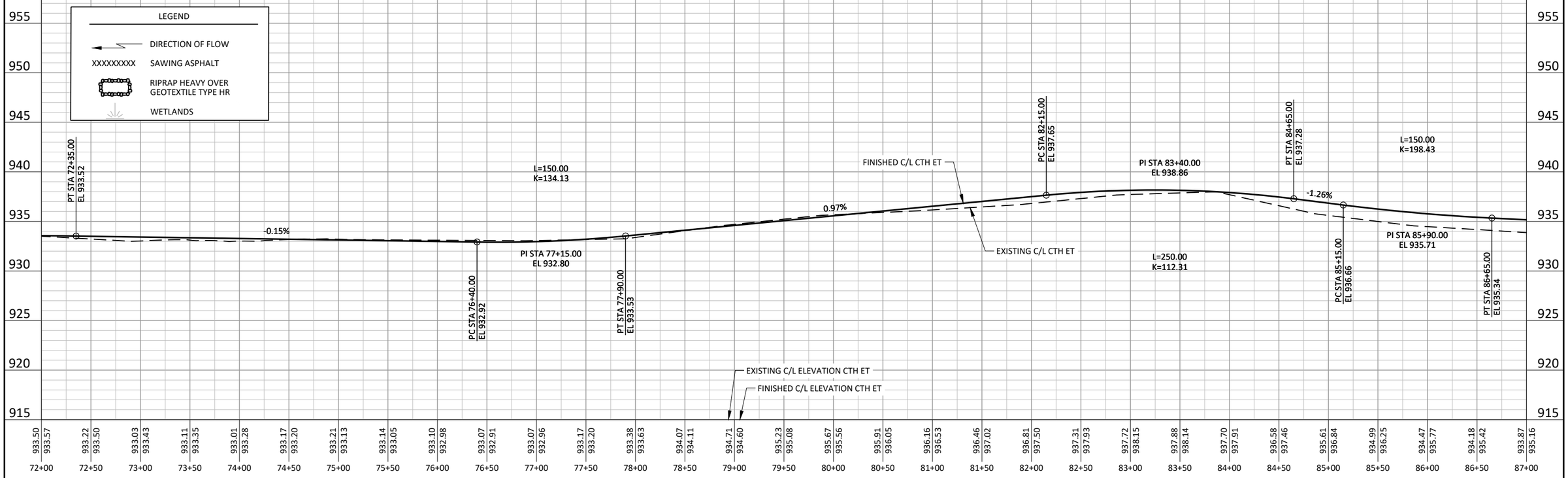
BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
3	66+34	BRASS CAP IN W BRIDGE CORNER, 16.2' RT.	933.93



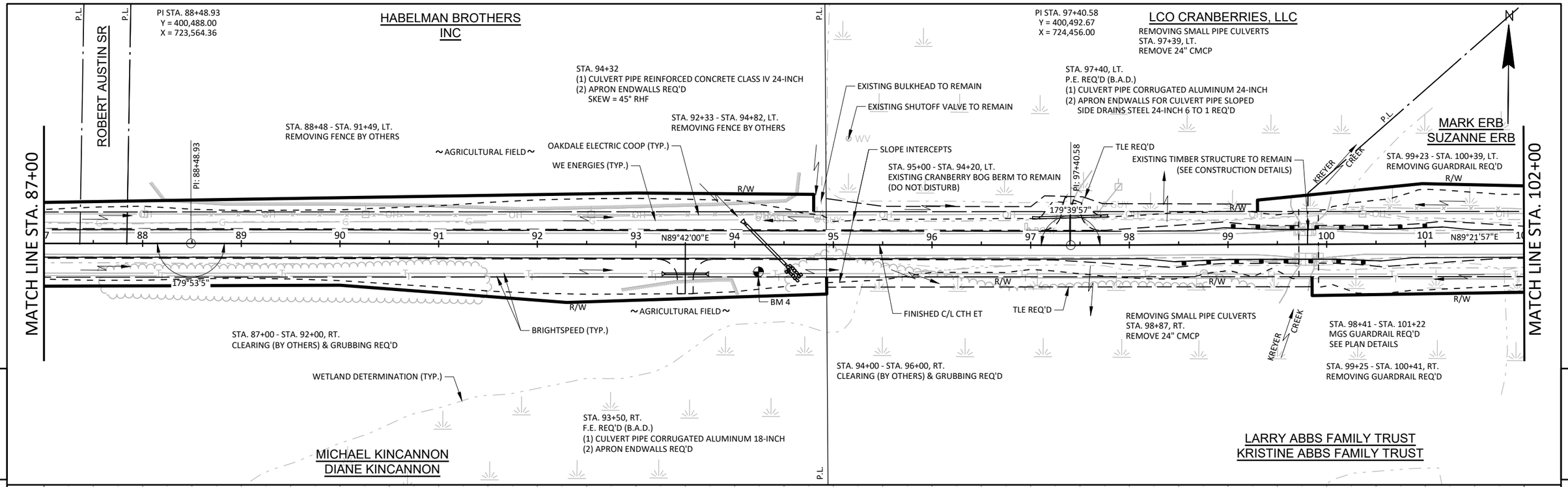
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 87	E

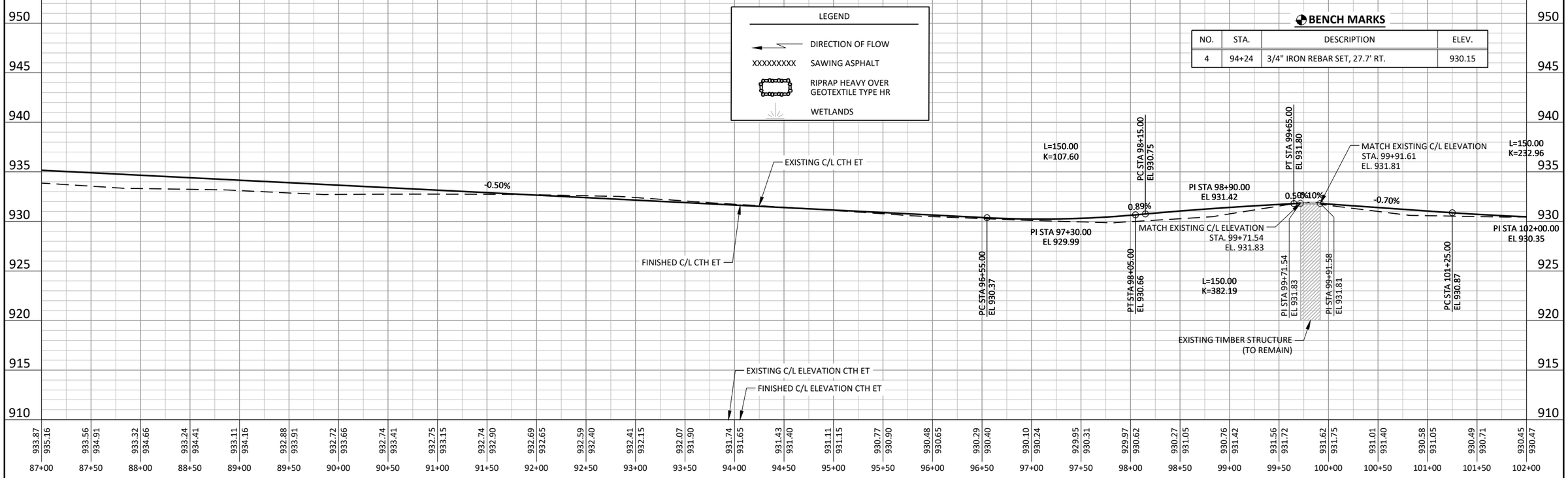




PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 88	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_CTH ET.DWG PLOT DATE : 12/22/2023 8:02:30 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 05





PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 89	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_CTH ET.DWG
PLOT DATE : 12/22/2023 8:02:38 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 06

MARK ERB
SUZANNE ERB

HABELMAN BROTHERS INC

HABELMAN BROS CO

N

MATCH LINE STA. 102+00

MATCH LINE STA. 117+00

STA. 102+00 - STA. 103+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 106+18 - STA. 107+45, LT.
REMOVING FENCE BY OTHERS

REESTABLISH SECTION CORNER MONUMENT
STA. 108+23.63, 0.297' LT.

STA. 106+00 - STA. 111+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

WETLAND DETERMINATION (TYP.)

STA. 116+80 - STA. 122+54, LT.
REMOVING FENCE BY OTHERS

STA. 113+00 - STA. 116+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

OAKDALE ELECTRIC COOP (TYP.)

SLOPE INTERCEPTS

WE ENERGIES (TYP.)

P.L.

PC: 106+45.35

PT: 110+39.60

R/W

102 103 104 N89°21'57"E 105 106 107 108 CURVE 3 109 110 111 112 113 114 115 S86°21'51"E 116 117

STA. 103+00 - STA. 105+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

BRIGHTSPEED (TYP.)

STA. 106+00 - STA. 109+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 107+28 - STA. 108+28, RT.
REMOVING FENCE BY OTHERS

STA. 108+75, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

TOWN OF LA GRANGE
TOWN OF BYRON

P.L.

CURVE 3
PI STA. = 108+42.57
Y = 400,504.87
X = 725,557.92
R = 5290.20
D = 1°04'59"
DELTA = 4°16'12"
L = 394.26
T = 197.22
C = 394.16
PC STA. = 106+45.35
Y = 400,502.69
X = 725,360.72
PT STA. = 110+39.60
Y = 400,492.36
X = 725,754.75
S.E. = 2.2%
R.O. = 53'
TRANS. = 101'

FINISHED C/L CTH ET

R/W

~AGRICULTURAL FIELD~

STA. 108+58 - STA. 112+62, RT.
REMOVING FENCE BY OTHERS

STA. 112+00 - STA. 115+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 114+50, RT.
P.E. REQ'D (ASPHALT)

LARRY ABBS FAMILY TRUST
KRISTINE ABBS FAMILY TRUST

5

5

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

WETLANDS

950 945 940 935 930 925 920 915 910

L=150.00
K=232.96

L=150.00
K=578.61

L=150.00
K=214.05

-0.06%

0.20%

PI STA 102+00.00
EL 930.35

PT STA 102+75.00
EL 930.31

PC STA 105+60.00
EL 930.14

PI STA 106+35.00
EL 930.10

PT STA 107+10.00
EL 930.25

PC STA 115+25.00
EL 931.90

PI STA 116+00.00
EL 932.05

PT STA 116+75.00
EL 931.68

EXISTING C/L CTH ET

FINISHED C/L CTH ET

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

102+00	102+50	103+00	103+50	104+00	104+50	105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00	112+50	113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00
930.45	930.47	930.47	930.33	930.48	930.29	930.49	930.26	930.43	930.23	930.26	930.21	930.13	930.18	930.06	930.15	930.06	930.13	930.19	930.16	930.34	930.23	930.52	930.33	930.69	930.43	930.86	930.53	930.98	930.64	931.03	930.74	931.07	930.84	931.10	930.94	931.10	931.04	931.05	931.14	931.04	931.24	931.09	931.34	931.16	931.44	931.25	931.54	931.38	931.65	931.56	931.75	931.76	931.85	932.02	931.93	932.03	931.92	931.74	931.79	931.47	931.55

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 90	E

HABELMAN BROS CO

PI STA. 120+63.76
Y = 400,427.42
X = 726,776.84

HABELMAN BROS CO

REMOVING SMALL PIPE CULVERTS
STA. 125+52, LT.
REMOVE 12" CPCP

DOUGLAS MAAS
MARY MAAS

PI STA. 127+81.48
Y = 400,386.90
X = 727,493.41

JADEN MAAS

DOUGLAS MAAS
MARY MAAS

N

STA. 125+53, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 125+53.87 (CTH ET) =
STA. 13'D'+00.48 (FORTUNE RD)
(TYPE C INTERSECTION REQ'D)

STA. 122+72, LT.
F.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 116+80 - STA. 122+54, LT.
REMOVING FENCE BY OTHERS

STA. 123+79 - STA. 124+79, LT.
REMOVING FENCE BY OTHERS

~AGRICULTURAL FIELD~

~AGRICULTURAL FIELD~

~AGRICULTURAL FIELD~

OAKDALE ELECTRIC COOP (TYP.)
WE ENERGIES (TYP.)

FINISHED C/L CTH ET

R/W

PI: 120+63.76

PI: 127+81.48

MATCH LINE STA. 117+00

MATCH LINE STA. 132+00

179°36'3"

179°41'37"

118 S86°21'51"E 119 120 121 122 123 124 S86°45'48"E 125 126 127 128 129 130 131 S86°27'25"E

12'D'

R/W

R/W

BM 5

98°25'03"

SLOPE INTERCEPTS

BRIGHTSPEED (TYP.)

~AGRICULTURAL FIELD~

STA. 122+00
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°

REMOVING SMALL PIPE CULVERTS
STA. 126+30
REMOVE 18" CPCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 126+00 - STA. 133+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 120+00, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

WETLAND DETERMINATION (TYP.)

FINISHED C/L 'D'-LINE
(FORTUNE RD)

XXXX

R/W

R/W

LARRY ABBS FAMILY TRUST
KRISTINE ABBS FAMILY TRUST

SCOTT SPARKS
TAMMY SPARKS

DEREK MARTIN

5

5

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
5	121+55	3/4" IRON PIPE SET, 41.6' RT.	929.40

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

950 945 940 935 930 925 920 915 910

L=180.00
K=234.94

PC STA 120+45.00
EL 931.52

PT STA 122+45.00
EL 931.61

PI STA 121+45.00
EL 931.78

FINISHED C/L CTH ET

L=150.00
K=297.42

PC STA 130+15.00
EL 931.63

PT STA 131+65.00
EL 931.51

PI STA 130+90.00
EL 931.88

-0.50%

0.27%

-0.17%

0.33%

PI STA 118+25.00
EL 930.93

PI STA 127+50.00
EL 930.75

PC STA 117+35.00
EL 931.38

PT STA 119+15.00
EL 931.17

L=200.00
K=456.49

EXISTING C/L CTH ET

PC STA 126+75.00
EL 930.88

PT STA 128+25.00
EL 931.00

L=150.00
K=179.94

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

117+00	117+50	118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00	124+50	125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00	130+50	131+00	131+50	132+00
931.47	931.23	931.09	931.09	931.13	931.24	931.39	931.59	931.69	931.62	931.56	931.50	931.39	931.19	930.98	930.78	930.72	930.85	930.75	930.61	930.49	930.39	930.51	930.92	931.28	931.59	931.85	932.06	932.08	931.89	931.56
931.55	931.31	931.14	931.08	931.13	931.26	931.40	931.53	931.63	931.68	931.67	931.60	931.52	931.43	931.35	931.26	931.18	931.09	931.01	930.92	930.85	930.84	930.93	931.08	931.25	931.42	931.58	931.72	931.72	931.58	931.33

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 91	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_CTH ET.DWG PLOT DATE : 12/22/2023 8:02:53 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 08

REMOVING SMALL PIPE CULVERTS
STA. 135+07
REMOVE 24" CPCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 135+07
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 2° RHF

DOUGLAS MAAS
MARY MAAS

REESTABLISH SECTION CORNER MONUMENT
STA. 138+75.73, 0.138' RT.

PI STA. 141+81.25
Y = 400,307.36
X = 728,890.89

PI STA. 146+78.11
Y = 400,290.79
X = 729,387.47

STA. 146+00, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

N

MATCH LINE STA. 132+00

MATCH LINE STA. 147+00

~AGRICULTURAL FIELD~

~AGRICULTURAL FIELD~

~AGRICULTURAL FIELD~

OAKDALE ELECTRIC COOP (TYP.)

WE ENERGIES (TYP.)

SLOPE INTERCEPTS

P.C. 135+94.41

PT 140+43.91

PI 141+81.25

PT 146+78.11

R/W

R/W

R/W

R/W

S86°27'25"E

S87°33'43"E

S88°05'19"E

179°28'24"

179°49'55"

CURVE 4

TLE REQ'D

BRIGHTSPEED (TYP.)

FINISHED C/L CTH ET

STA. 132+26, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D

CURVE 4
PI STA. = 138+19.17
Y = 400,322.77
X = 728,529.12
R = 23304.55
D = 0°14'45"
DELTA = 1°06'18"
L = 449.50
T = 224.76
C = 449.49
PC STA. = 135+94.41
Y = 400,336.66
X = 728,304.79
PT STA. = 140+43.91
Y = 400,313.20
X = 728,753.67
S.E. = N.C.
R.O. = N/A
TRANS. = N/A

STA. 136+00 - STA. 143+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 145+00 - STA. 160+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

STA. 146+00, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

WETLAND DETERMINATION (TYP.)

REMOVING SMALL PIPE CULVERTS
STA. 132+26, RT.
REMOVE 24" CPCP

STA. 126+00 - STA. 133+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

DEREK MARTIN

SCOTT PEARDOT
LAURA PEARDOT

P.L.

P.L.

P.L.

5

5

950

945

940

935

930

925

920

915

910

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

WETLANDS

L=150.00
K=215.29

-0.50%

0.20%

PI STA 133+85.00
EL 930.41

PC STA 133+10.00
EL 930.78

PT STA 134+60.00
EL 930.56

FINISHED C/L CTH ET

EXISTING C/L CTH ET

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

132+00	132+50	133+00	133+50	134+00	134+50	135+00	135+50	136+00	136+50	137+00	137+50	138+00	138+50	139+00	139+50	140+00	140+50	141+00	141+50	142+00	142+50	143+00	143+50	144+00	144+50	145+00	145+50	146+00	146+50	147+00
931.56	931.33	931.05	931.08	930.66	930.83	930.45	930.62	930.38	930.52	930.50	930.54	930.61	930.64	930.74	930.73	930.81	930.83	930.77	930.93	930.79	931.03	930.91	931.13	930.96	931.23	930.92	931.32	930.90	931.42	930.90	931.52	930.91	931.62	930.93	931.72	931.01	931.82	931.17	931.91	931.20	932.01	931.05	932.11	930.97	932.21	930.99	932.31	931.07	932.41	931.21	932.50	931.34	932.60	931.46	932.70	931.52	932.80	931.51	932.90	931.55	933.00

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET	92	E

JUSTIN LENE
CHRISTINA LENE

REMOVING SMALL PIPE CULVERTS
STA. 149+88, LT.
REMOVE 18" CMCP

STA. 149+89, LT.
P.E. REQ'D (B.A.D.)

REMOVING SMALL PIPE CULVERTS
STA. 152+12, LT.
REMOVE 18" CMCP

STA. 152+13, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

HABELMAN BROS CO

STA. 158+13 - STA. 160+66, LT.
REMOVING FENCE BY OTHERS

N

~AGRICULTURAL FIELD~

OAKDALE ELECTRIC COOP (TYP.)
WE ENERGIES (TYP.)

~AGRICULTURAL FIELD~

99°16'54"
BM 6
TLE REQ'D
R/W
SLOPE INTERCEPTS
FE 160+35.25
MATCH LINE STA. 147+00
MATCH LINE STA. 162+00
147 148 149 150 151 152 153 S87°55'14"E 154 155 156 157 158 159 160 161
92°36'49"
92°30'12"
R/W
BRIGHTSPEED (TYP.)
FINISHED C/L CTH ET
~AGRICULTURAL FIELD~
~AGRICULTURAL FIELD~

STA. 149+47, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 151+63, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 151+62, RT.
REMOVE 18" CMCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 145+00 - STA. 160+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

WETLAND DETERMINATION (TYP.)

SCOTT PEARDOT
LAURA PEARDOT

SHARON MORRISON

DARIN GREENO
RENEE GREENO

P.L. P.L. P.L. P.L.

5 5

950 950

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	149+17	3/4" IRON REBAR SET, 41.1' LT.	930.43

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

945 945
940 940
935 935
930 930
925 925
920 920
915 915
910 910

PC STA 148+25.00
EL 933.24
PT STA 149+75.00
EL 933.11
L=150.00
K=494.60
PI STA 149+00.00
EL 933.39
-0.37%
FINISHED C/L CTH ET
-0.07%
PI STA 151+80.00
EL 932.35
PC STA 151+05.00
EL 932.63
PT STA 152+55.00
EL 932.30
L=150.00
K=264.79
EXISTING C/L CTH ET
EXISTING C/L ELEVATION CTH ET
FINISHED C/L ELEVATION CTH ET

| | | |

HABELMAN BROS CO

REMOVING SMALL PIPE CULVERTS
STA. 162+31
REMOVE 24" CPCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 162+75
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°

PHILLIP HOLLOWAY

STA. 165+23, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

EXISTING 4" DIA. DRAIN TILE TO REMAIN. CUT BACK TO DAYLIGHT IN NEW DITCH (INCIDENTAL TO EXCAVATION COMMON BID ITEM).

OAKDALE ELECTRIC COOP (TYP.)

WE ENERGIES (TYP.)

TLE REQ'D

~AGRICULTURAL FIELD~

97°09'56"

STA. 168+53, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

BRIAN OLSEN
KAREN OLSEN

WETLAND DETERMINATION (TYP.)

STA. 172+55, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

~AGRICULTURAL FIELD~

TLE REQ'D

PT: 175+00.18

N

MATCH LINE STA. 162+00

MATCH LINE STA. 177+00

R/W

FINISHED C/L CTH ET

CURVE 5

94°32'32"

95°28'12"

BRIGHTSPEED (TYP.)

SLOPE INTERCEPTS

R/W

CURVE 5
PI STA. = 167+67.75
Y = 400,214.97
X = 731,475.74
R = 60307.94
D = 0°05'42"
DELTA = 1°23'30"
L = 1464.93
T = 732.50
C = 1464.89
PC STA. = 160+35.25
Y = 400,241.55
X = 730,743.72
PT STA. = 175+00.18
Y = 400,170.62
X = 732,206.89
S.E. = N.C.
R.O. = N/A
TRANS. = N/A

STA. 172+00 - STA. 191+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

~AGRICULTURAL FIELD~

TLE REQ'D

STA. 165+00 - STA. 171+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

EXISTING 4" DIA. DRAIN TILE TO REMAIN. CUT BACK TO DAYLIGHT IN NEW DITCH (INCIDENTAL TO EXCAVATION COMMON BID ITEM).

REESTABLISH SECTION CORNER MONUMENT
STA. 165+14.88, 1.557' LT.

STA. 164+77, RT.
P.E. REQ'D (PULVERIZED ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 164+78, RT.
REMOVE 24" CPCP

DARIN GREENO
RENEE GREENO

DAN CUNNINGHAM
BONI CUNNINGHAM

P.L.

5

5

945
940
935
930
925
920
915
910
905

PC STA 162+42.50
EL 931.65

PI STA 163+50.00
EL 931.58

PT STA 164+57.50
EL 931.29

-0.26%

L=215.00
K=1096.71

L=150.00
K=337.98

PC STA 169+05.00
EL 930.12

PI STA 169+80.00
EL 929.92

PT STA 170+55.00
EL 930.06

FINISHED C/L CTH ET

EXISTING C/L CTH ET

0.18%

PC STA 172+55.00
EL 930.42

PI STA 173+30.00
EL 930.56

L=150.00
K=314.53

PT STA 174+05.00
EL 930.34

-0.30%

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

162+00	162+50	163+00	163+50	164+00	164+50	165+00	165+50	166+00	166+50	167+00	167+50	168+00	168+50	169+00	169+50	170+00	170+50	171+00	171+50	172+00	172+50	173+00	173+50	174+00	174+50	175+00	175+50	176+00	176+50	177+00
930.20	930.13	929.99	929.81	929.83	930.04	930.28	930.50	930.48	930.26	930.05	929.84	929.66	929.50	929.38	929.27	929.31	929.46	929.52	929.52	929.58	929.67	929.75	929.81	929.74	929.58	929.33	929.01	928.84	928.79	928.79
931.68	931.64	931.60	931.52	931.43	931.31	931.18	931.05	930.92	930.79	930.66	930.53	930.40	930.26	930.13	930.03	930.00	930.05	930.14	930.23	930.32	930.41	930.47	930.45	930.35	930.20	930.06	929.91	929.76	929.61	929.46

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET 94	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_CTH ET.DWG
PLOT DATE : 12/22/2023 8:03:15 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 11

BRIAN OLSEN
KAREN OLSEN

P.L.

PI STA. 180+40.46
Y = 400,137.91
X = 732,746.18

HABELMAN BROS CO

PI STA. 187+85.05
Y = 400,096.59
X = 733,489.63

END CONSTRUCTION
STA. 192+25.00
Y = 400,069.01
X = 733,928.71

N

REMOVING SMALL PIPE CULVERTS
STA. 178+42
REMOVE 24" CPCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 178+50
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°

STA. 183+72, LT.
P.E. REQ'D (B.A.D.)

~AGRICULTURAL FIELD~

FINISHED R/L 'E'-LINE (CTH N)

EXISTING C/L CTH N

CTH N

STA. 12'E'+99.69 ('E'-LINE) =
STA. 191+63.10 (CTH ET)
(TYPE C INTERSECTION REQ'D)

MATCH LINE STA. 177+00

WE ENERGIES (TYP.)

~AGRICULTURAL FIELD~

OAKDALE ELECTRIC COOP (TYP.)

PI: 180+40.46

97°53'26"

SLOPE INTERCEPTS

R/W

PI: 187+85.05

BM 8

179°42'36"

7 178 179 S86°31'44"E 180 181 182 183 184 S86°49'08"E 185 186 187 188 189 190 S86°24'20"E 191 192

179°35'12"

BM 7

FINISHED C/L CTH ET

BRIGHTSPEED (TYP.)

~AGRICULTURAL FIELD~

REESTABLISH SECTION CORNER MONUMENT
STA. 191+71.97, 2.040' RT.

STA. 178+12, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

STA. 172+00 - STA. 191+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 178+12, RT.
REMOVE 18" CMCP

WETLAND DETERMINATION (TYP.)

STA. 183+61, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

REMOVING SMALL PIPE CULVERTS
STA. 183+62, RT.
REMOVE 24" CMCP

END PROJECT
STA. 191+57.09
Y = 400,073.27
X = 733,860.93

DAN CUNNINGHAM
BONI CUNNINGHAM

MICHAEL DAMROW
KALLI DAMROW

DARREL MURPHY

5

5

945 940 935 930 925 920 915 910 905

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS
- LIMITS OF PAVEMENT REPLACEMENT (SEE TYPICAL FINISHED SECTION FOR FURTHER INFORMATION)

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
7	178+00	3/4" IRON REBAR SET, 26.5' RT.	927.55
8	192+01	3/4" IRON REBAR SET, 30.6' LT.	925.32

L=150.00
K=278.05

EXISTING C/L CTH ET

PC STA 185+70.00
EL 930.51

PI STA 186+70.00
EL 930.75

PT STA 187+70.00
EL 929.68

L=215.00
K=105.39

0.24%

-1.07%

0.97%

2.02%

PI STA 179+00.00
EL 928.87

PC STA 178+25.00
EL 929.09

PT STA 179+75.00
EL 929.06

FINISHED C/L CTH ET

L=200.00
K=152.22

PC STA 189+37.50
EL 927.89

PI STA 190+45.00
EL 926.74

PT STA 191+52.50
EL 927.78

MATCH 'E'-LINE
STA. 191+57.09
EL. 927.83

EXISTING C/L ELEVATION CTH ET

FINISHED C/L ELEVATION CTH ET

| | | |

HABELMAN BROS CO

OAKDALE ELECTRIC COOP (TYP.)

R/W

FINISHED C/L CTH ET

CTH ET

62

63

STA. 62+89.89 (CTH ET) =
STA. 10'B'+00.00 ('B'-LINE)
(TYPE C INTERSECTION REQ'D)

N27°02'42"E

90°00"

BEGIN CONSTRUCTION
STA. 10'B'+17.00
Y = 401,137.06
X = 721,214.90

BRIGHTSPEED (TYP.)

REMOVING SMALL PIPE CULVERTS
STA. 10'B'+48
REMOVE 18" CMCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

WE ENERGIES (TYP.)

STA. 10'B'+91, LT.
(2) REMOVING DELINEATORS
& MARKERS REQ'D.

~AGRICULTURAL FIELD~

DARLENE FOWLER
CHARLEY WOOD JR

STA. 11'B'+21, LT.
(2) REMOVING DELINEATORS
& MARKERS REQ'D.

STA. 11'B'+51, LT.
(2) REMOVING DELINEATORS
& MARKERS REQ'D.

STA. 11'B'+83, LT.
(2) REMOVING DELINEATORS
& MARKERS REQ'D.

CURVE 6
PI STA. = 11+66.94
Y = 401,270.61
X = 721,283.08
R = 3130.00
D = 1°49'50"
DELTA = 4°11'52"
L = 229.32
T = 114.71
C = 229.27
PC STA. = 10+52.23
Y = 401,168.44
X = 721,230.92
PT STA. = 12+81.55
Y = 401,376.32
X = 721,327.62
S.E. = N.C.
R.O. = N/A
TRANS. = N/A

PC: 10'B'+52.23

EXISTING C/L 'B'-LINE
(FORMICA ROAD)

SLOPE INTERCEPTS

R/W

11'B'+00

12'B'+00

CURVE 6

N22°50'50"E

FORMICA ROAD

PT: 63+33.08

FINISHED C/L 'B'-LINE
(FORMICA ROAD)

GRADE TO DRAIN

END CONSTRUCTION
STA. 12'B'+70.00
Y = 401,365.60
X = 721,323.10

STA. 10'B'+35
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 1° LHF

STA. 10'B'+39
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 1° LHF

WE ENERGIES (TYP.)

THOMAS POWELL
ELISA POWELL

LEGEND
- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

STA. 10'B'+00.00
EL. 932.45

STA. 10'B'+17.00
EL. 933.46

PC STA 10'B'+37.50
EL 933.46

FINISHED C/L 'B'-LINE

PI STA 10'B'+90.00
EL 933.456

PT STA 11'B'+42.50
EL 932.73

L=105.00
K=70.34

5.90%

-0.00%

-1.39%

0.10%

PI STA 12'B'+05.00
EL 931.86

L=105.00
K=75.47

EXISTING C/L 'B'-LINE

PC STA 11'B'+52.50
EL 932.59

PT STA 12'B'+57.50
EL 931.91

MATCH EXISTING
STA. 12'B'+70.00
EL. 931.92

EXISTING C/L ELEVATION 'B'-LINE

FINISHED C/L ELEVATION 'B'-LINE

940 938 936 934 932 930 928 926 924

932.49 932.45 | 932.47 933.46 | 932.26 933.46 | 932.60 933.42 | 932.67 933.34 | 932.52 933.20 | 932.33 933.00 | 932.13 932.76 | 932.02 932.49 | 931.89 932.26 | 931.84 932.09 | 931.87 931.97 | 931.89 931.91 | 931.91 931.91 | 931.93

8'B'+60 8'B'+80 9'B'+00 9'B'+20 9'B'+40 9'B'+60 9'B'+80 10'B'+00 10'B'+20 10'B'+40 10'B'+60 10'B'+80 11'B'+00 11'B'+20 11'B'+40 11'B'+60 11'B'+80 12'B'+00 12'B'+20 12'B'+40 12'B'+60 12'B'+80 13'B'+00 13'B'+20 13'B'+40 13'B'+60 13'B'+80 14'B'+00 14'B'+20 14'B'+40

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'B'-LINE (FORMICA RD)	SHEET 96	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_SIDEROADS.DWG PLOT DATE : 10/17/2023 4:40:20 PM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 01

CURVE 7
PI STA. = 11'C'+00.32
Y = 400,398.79
X = 722,102.50
R = 340.00
D = 16°51'06"
DELTA = 25°55'48"
L = 153.87
T = 78.28
C = 152.56
PC STA. = 10'C'+22.04
Y = 400,350.25
X = 722,041.08
PT STA. = 11'C'+75.91
Y = 400,469.29
X = 722,136.50
S.E. = R.C.
R.O. = SEE S.E. TABLES
TRANS. = SEE S.E. TABLES

LOIS WHITE TRUST

THOMAS POWELL
ELISA POWELL

HABELMAN BROS CO

FOREST AVENUE

STA. 10'C'+00 - STA. 12'C'+00, LT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

FINISHED C/L 'C'-LINE
(FOREST AVENUE)

SLOPE INTERCEPTS

PC: 10'C'+22.04

PT: 11'C'+75.91

FINISHED C/L CTH ET

STA. 74+25.41 (CTH ET) =
STA. 11'C'+88.94 ('C'-LINE)
(TYPE C INTERSECTION REQ'D)

74

99°39'28"

N51°40'50"E

N25°45'01"E

11'C'+00

CURVE 7

CTH ET

OAKDALE ELECTRIC COOP (TYP.)

EXISTING C/L 'C'-LINE
(FOREST AVENUE)

BRIGHTSPEED (TYP.)

STA. 11'C'+55
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS
STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 12° RHF

75

PT: 75+19.22

BEGIN CONSTRUCTION
STA. 10'C'+00.00
Y = 400,336.59
X = 722,023.79

END CONSTRUCTION
STA. 11'C'+72.71
Y = 400,466.42
X = 722,135.10

LOIS WHITE TRUST

R/W

P/L

5

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

940
938
936
934
932
930
928
926
924

FINISHED C/L 'C'-LINE

-0.33%

-5.74%

MATCH EXISTING
STA. 10'C'+00.00
EL. 934.75

EXISTING C/L 'C'-LINE

STA. 11'C'+72.71
EL 934.17

STA. 11'C'+88.94
EL 933.24

EXISTING C/L ELEVATION 'C'-LINE

FINISHED C/L ELEVATION 'C'-LINE

934.75	934.60	934.44	934.28	934.03
934.75	934.68	934.61	934.55	934.48

933.69	933.15	933.37	933.48	933.29																				
934.41	934.35	934.28	934.21	933.75																				

8'C'+00 8'C'+20 8'C'+40 8'C'+60 8'C'+80 9'C'+00 9'C'+20 9'C'+40 9'C'+60 9'C'+80 10'C'+00 10'C'+20 10'C'+40 10'C'+60 10'C'+80 11'C'+00 11'C'+20 11'C'+40 11'C'+60 11'C'+80 12'C'+00 12'C'+20 12'C'+40 12'C'+60 12'C'+80 13'C'+00 13'C'+20 13'C'+40 13'C'+60 13'C'+80

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'C'-LINE (FOREST AVE)	SHEET 97	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_SIDEROADS.DWG
PLOT DATE : 12/22/2023 8:04:21 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 02

SCOTT SPARKS
TAMMY SPARKS

WETLAND DETERMINATION (TYP.)

FINISHED C/L 'D'-LINE (FORTUNE ROAD)

R/W

SLOPE INTERCEPTS

EXISTING C/L 'D'-LINE (FORTUNE ROAD)

R/W

FORTUNE ROAD

OH

R/W

OAKDALE ELECTRIC COOP (TYP.)

STA. 12'D'+00 - STA. 13'D'+00, RT.
CLEARING (BY OTHERS) & GRUBBING REQ'D

BEGIN CONSTRUCTION
STA. 11'D'+60.00
Y = 400,259.29
X = 727,268.60

REMOVING SMALL PIPE CULVERTS
STA. 12'D'+66
REMOVE 20" CMCP

STA. 12'D'+69
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 4° LHF

BRIGHTSPEED (TYP.)

~AGRICULTURAL FIELD~

DEREK MARTIN

12'D'+00

N00°59'34"W

13'D'+00

85°46'14"

~AGRICULTURAL FIELD~

HABELMAN BROS CO

CTH ET

125

OAKDALE ELECTRIC COOP (TYP.)

FINISHED C/L CTH ET

WE ENERGIES (TYP.)

P.L.

136

S86°45'48"E

STA. 125+53.87 (CTH ET) =
STA. 13'D'+00.48 ('D'-LINE)
(TYPE C INTERSECTION REQ'D)

~AGRICULTURAL FIELD~

END CONSTRUCTION
STA. 12'D'+84.44
Y = 400,383.71
X = 727,266.44

DOUGLAS MAAS
MARY MAAS

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS

EXISTING C/L 'D'-LINE

-0.42%

2.01%

MATCH EXISTING
STA. 11'D'+60.00
EL. 931.28

FINISHED C/L 'D'-LINE

STA. 12'D'+84.44
EL. 930.76

STA. 13'D'+00.48
EL. 931.08

EXISTING C/L ELEVATION 'D'-LINE

FINISHED C/L ELEVATION 'D'-LINE

938 936 934 932 930 928 926 924 922

8'D'+60	8'D'+80	9'D'+00	9'D'+20	9'D'+40	9'D'+60	9'D'+80	10'D'+00	10'D'+20	10'D'+40	10'D'+60	10'D'+80	11'D'+00	11'D'+20	11'D'+40	11'D'+60	11'D'+80	12'D'+00	12'D'+20	12'D'+40	12'D'+60	12'D'+80	13'D'+00	13'D'+20	13'D'+40	13'D'+60	13'D'+80	14'D'+00	14'D'+20	14'D'+40
							932.66	932.45	932.25	932.04	931.83	931.62	931.51	931.39	931.28	931.28	931.17	931.20	931.05	931.11	931.09	931.03	931.13	930.95	931.10	930.86	930.99	930.78	930.86	931.08

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'D'-LINE (FORTUNE RD)	SHEET 98	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_SIDEROADS.DWG
PLOT DATE : 12/22/2023 8:05:03 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 03

DARREL MURPHY

REMOVING SMALL PIPE CULVERTS
STA. 12'E'+72
REMOVE 24" CMCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 12'E'+66
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 4° RHF

P.L.

R/W

FINISHED C/L CTH ET

WE ENERGIES (TYP.)

BRIGHTSPEED (TYP.)

CTH ET

191

S86°24'20"E

PI STA. 13'E'+27.66
Y = 400,100.86
X = 733,866.85

HABELMAN BROS CO

WE ENERGIES (TYP.)

OAKDALE ELECTRIC COOP (TYP.)

~AGRICULTURAL FIELD~

N

SLOPE INTERCEPT (TYP.)

PI 13'E'+27.66

179°49'51"

12'E'+00

N00°10'08"W

13'E'+00

N00°20'17"W

14'E'+00

93°45'48"

CTH N

192

FINISHED R/L 'E'-LINE (CTH N)

EXISTING C/L CTH N

STA. 12'E'+99.69 ('E'-LINE) =
STA. 191+63.10 (CTH ET)
(TYPE C INTERSECTION REQ'D)

FOUNTAIN AVE

REMOVING SMALL PIPE CULVERTS
STA. 13'E'+26
REMOVE 24" CMCP
(2) REMOVING DELINEATORS & MARKERS REQ'D.

STA. 13'E'+31
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 13° LHF

BEGIN CONSTRUCTION
STA. 11'E'+88.00
Y = 399,961.20
X = 733,867.26

END CONSTRUCTION
STA. 14'E'+50.00
Y = 400,223.20
X = 733,866.13

5

5

934
932
930
928
926
924
922
920
918

PC STA 12+40.00
EL 927.93

EXISTING R/L 'E'-LINE

PI STA 13+00.00
EL 928.15

PT STA 13+60.00
EL 927.55

0.37%

-1.00%

MATCH EXISTING
STA. 11'E'+88.00
EL. 927.74

FINISHED R/L 'E'-LINE

L=120.00
K=87.97

MATCH EXISTING
STA. 14'E'+50.00
EL. 926.65

EXISTING R/L ELEVATION 'E'-LINE

FINISHED R/L ELEVATION 'E'-LINE

LEGEND

- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- RIPRAP HEAVY OVER GEOTEXTILE TYPE HR
- WETLANDS
- LIMITS OF PAVEMENT REPLACEMENT (SEE TYPICAL FINISHED SECTION FOR FURTHER INFORMATION)

927.46	927.53	927.60	927.66	927.73	927.78	927.72	927.68	927.68	927.72	927.77	927.78	927.79	927.86	927.81	927.93	927.92	927.98	927.95	927.99	928.10	927.95	928.00	927.86	927.72	927.73	927.44	927.55	927.22	927.35	927.00	927.15	926.86	926.95	926.72	926.75	926.58	926.45	926.34	926.37	926.42	926.47	926.52
10'E'+00	10'E'+20	10'E'+40	10'E'+60	10'E'+80	11'E'+00	11'E'+20	11'E'+40	11'E'+60	11'E'+80	12'E'+00	12'E'+20	12'E'+40	12'E'+60	12'E'+80	13'E'+00	13'E'+20	13'E'+40	13'E'+60	13'E'+80	14'E'+00	14'E'+20	14'E'+40	14'E'+60	14'E'+80	15'E'+00	15'E'+20	15'E'+40	15'E'+60	15'E'+80	16'E'+00

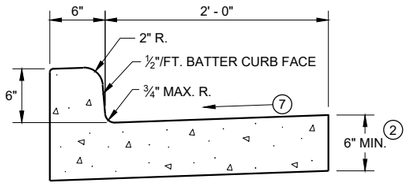
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'E'-LINE (CTH N)	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\PLAN & PROFILE SHEETS\M08455_PLAN AND PROFILE_SIDEROADS.DWG
PLOT DATE : 10/17/2023 4:40:38 PM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 04

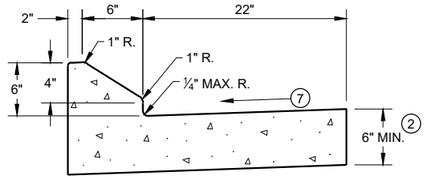
Standard Detail Drawing List

08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
08F08-02	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-03C	SHOULDER RUMBLE STRIPS - ASPHALT SINUSOIDAL
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A10-03H	SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES
13A11-04C	CENTERLINE RUMBLE STRIPS - ASPHALT SINUSOIDAL
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C19-03	HMA LONGITUDINAL JOINTS
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

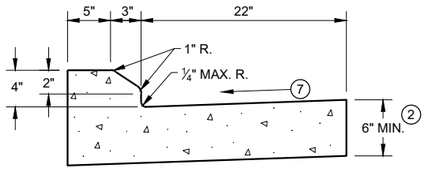
6



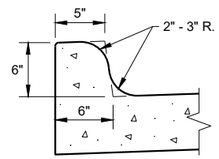
TYPES A (1) & D



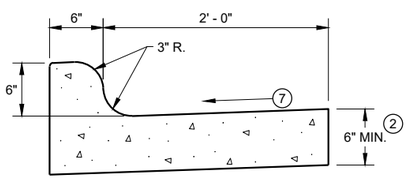
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

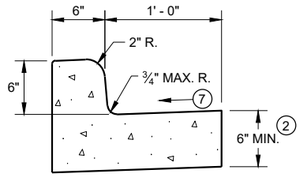


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



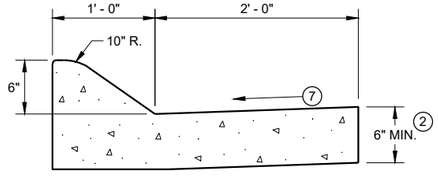
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

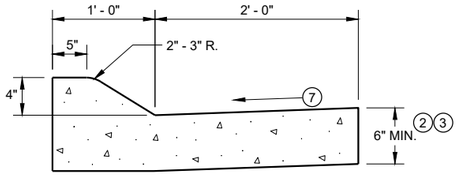


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

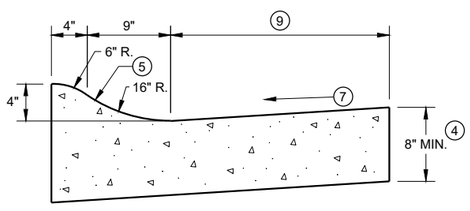


6" SLOPED CURB TYPES A (1) & D



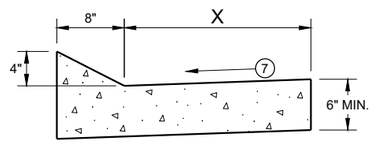
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

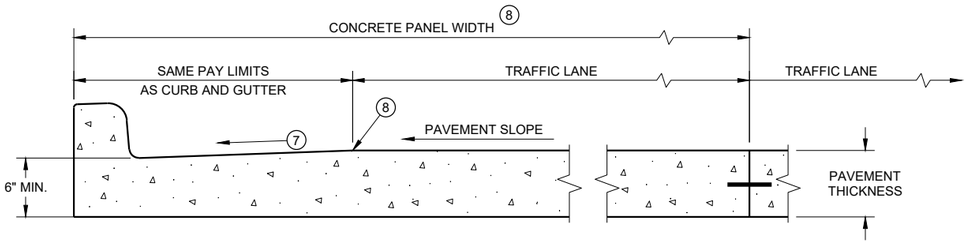


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

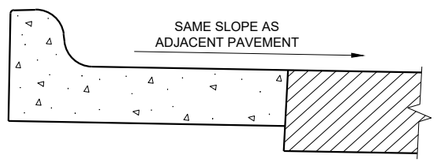
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

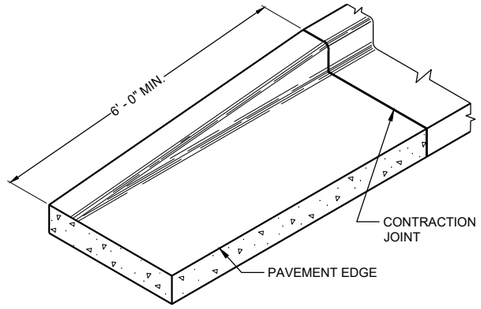
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

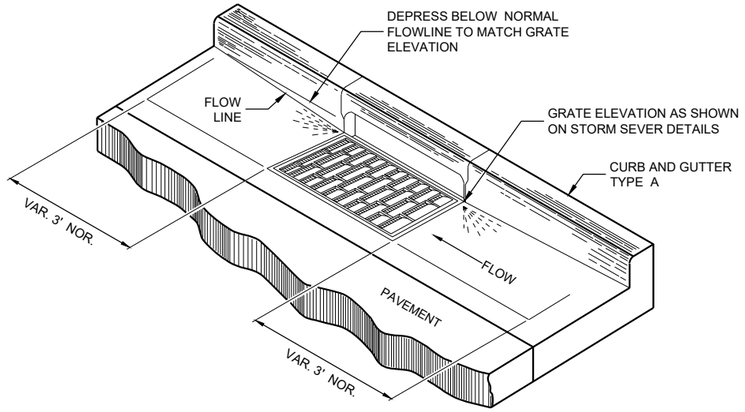
CONCRETE CURB AND GUTTER

6

SDD 08D01 - 23a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

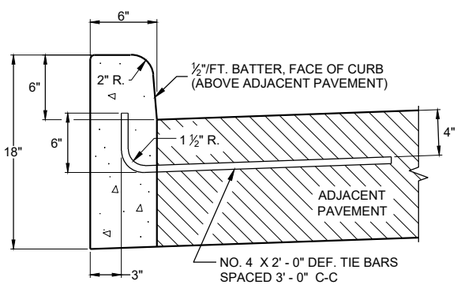
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

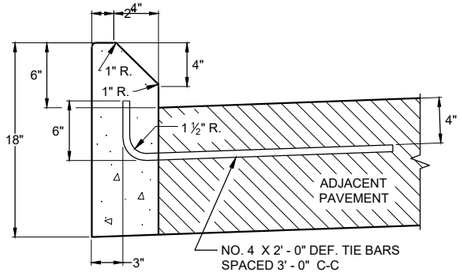
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

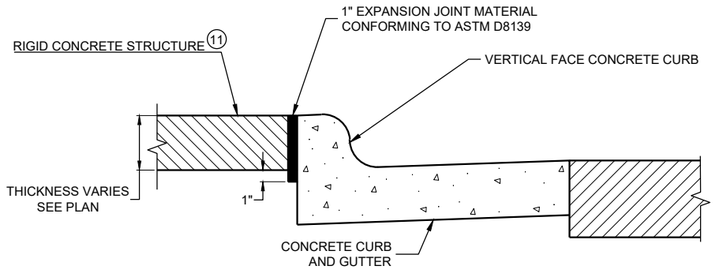


TYPES A (1) & D

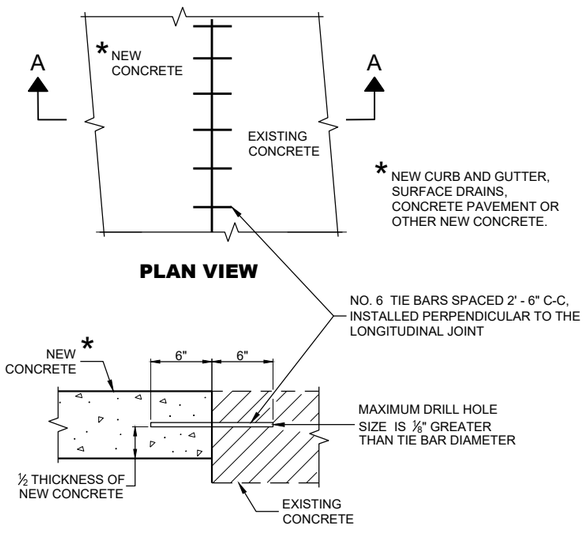


TYPES G (1) & J

CONCRETE CURB



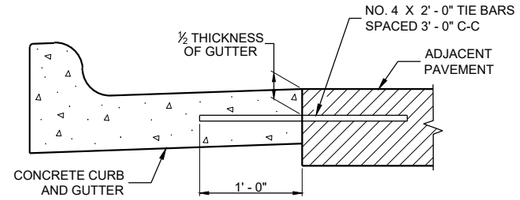
EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



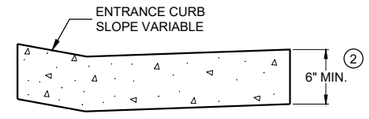
PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

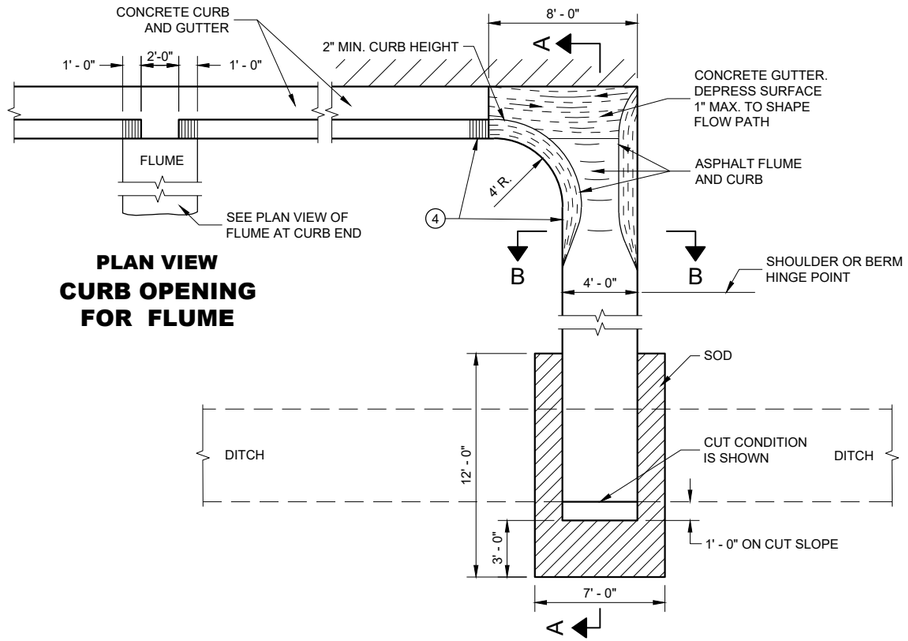
FHWA

6

SDD08D01 - 23b

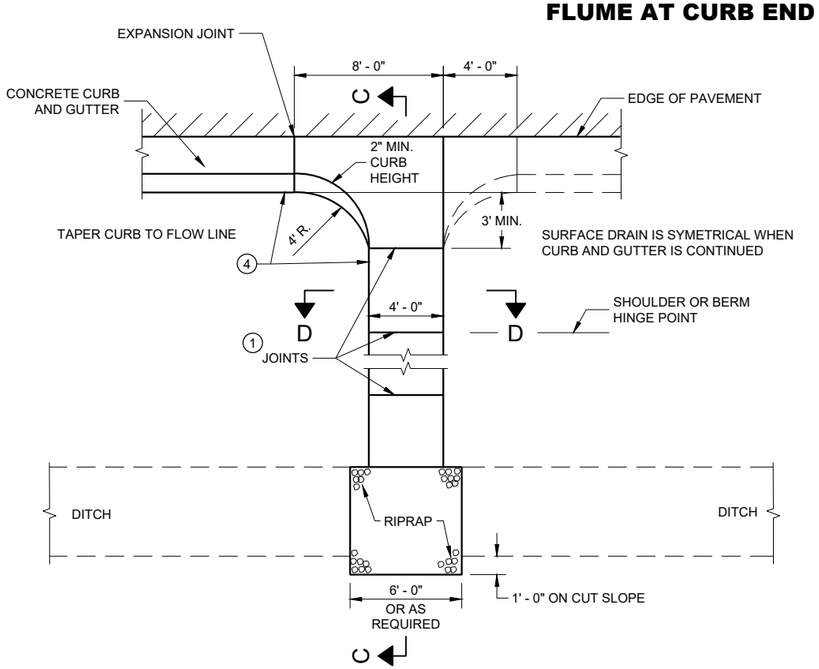
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



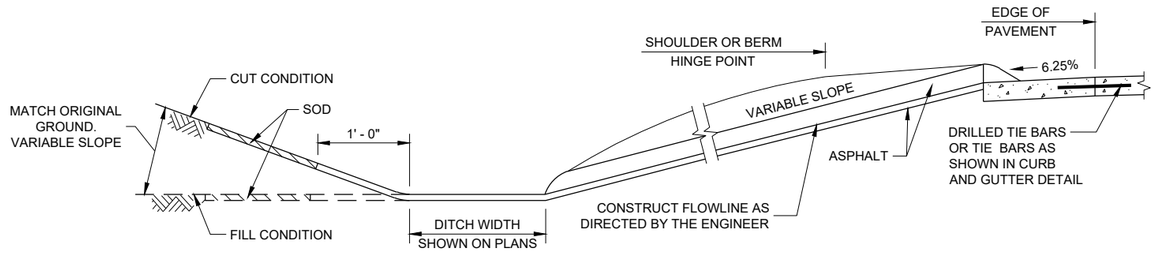
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

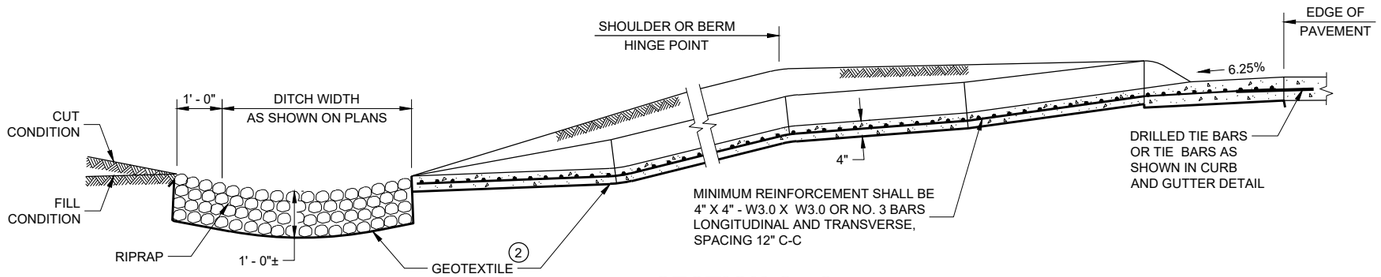
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

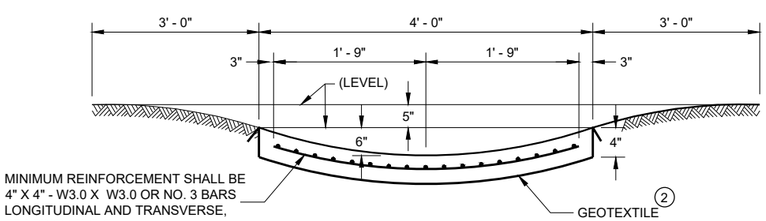


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

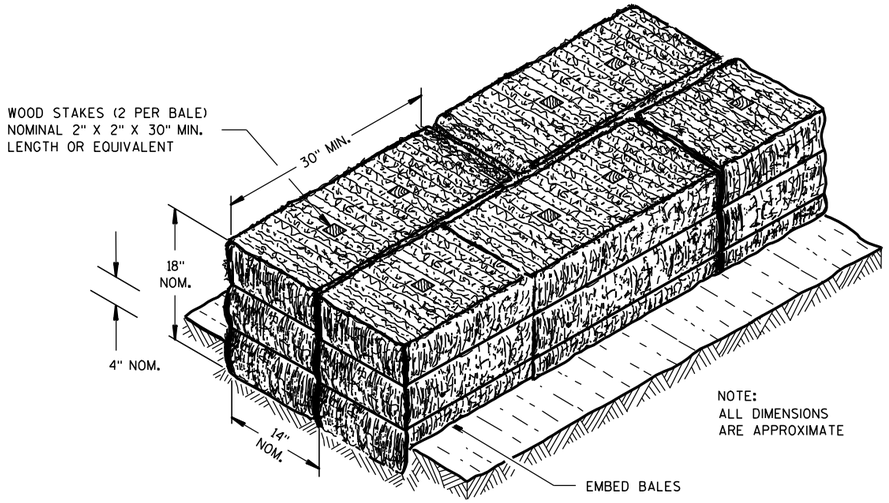
APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

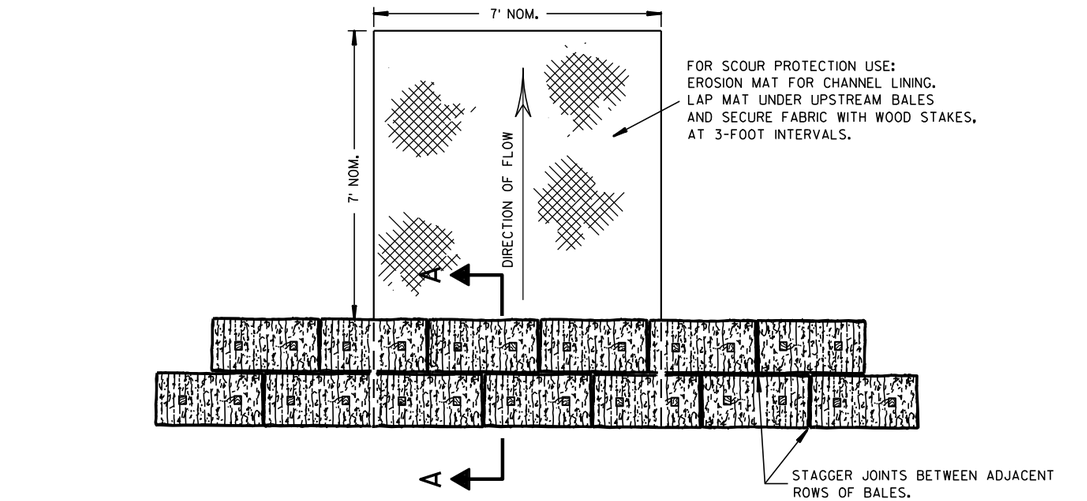
FHWA

6

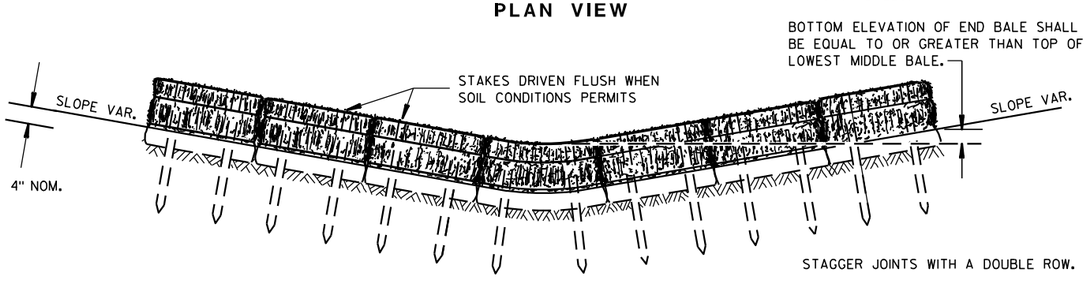
SDD 08D04 - 07



SECTION A-A



PLAN VIEW



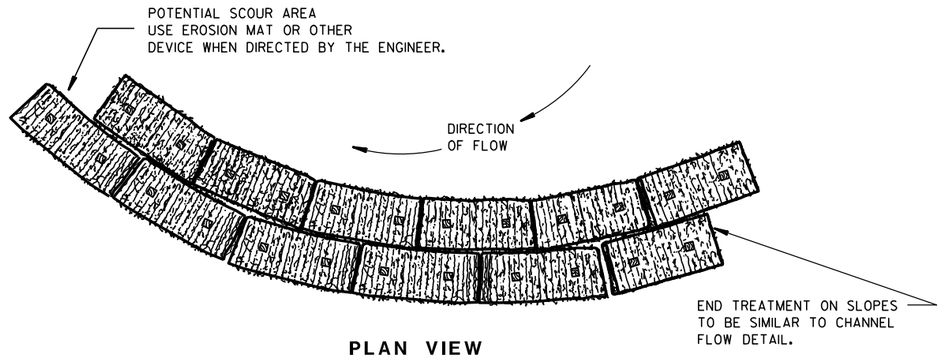
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

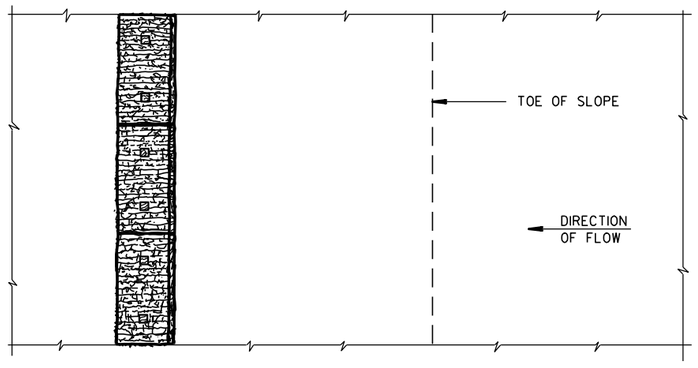
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

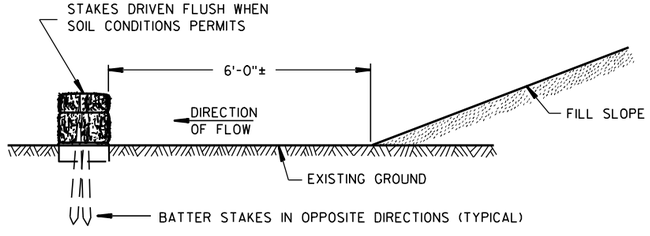


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

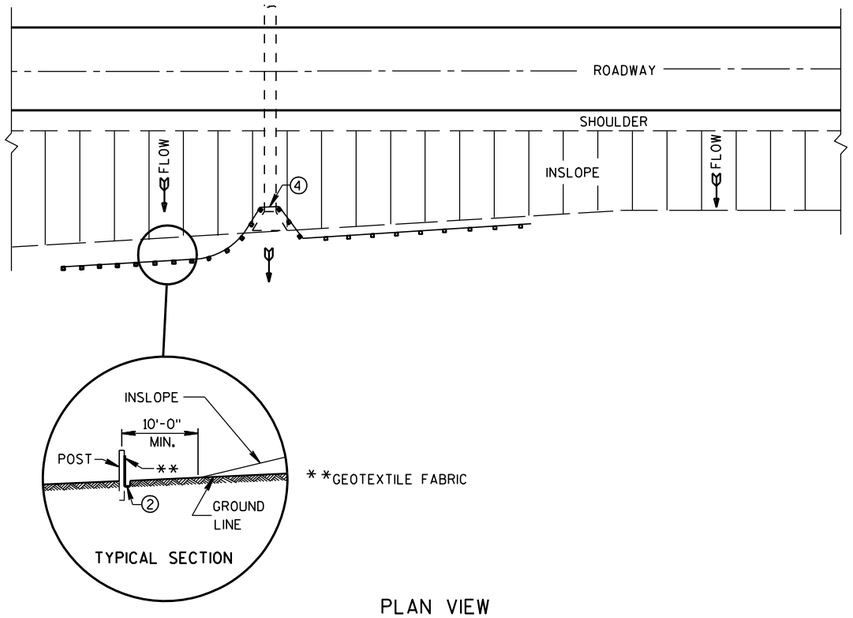
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

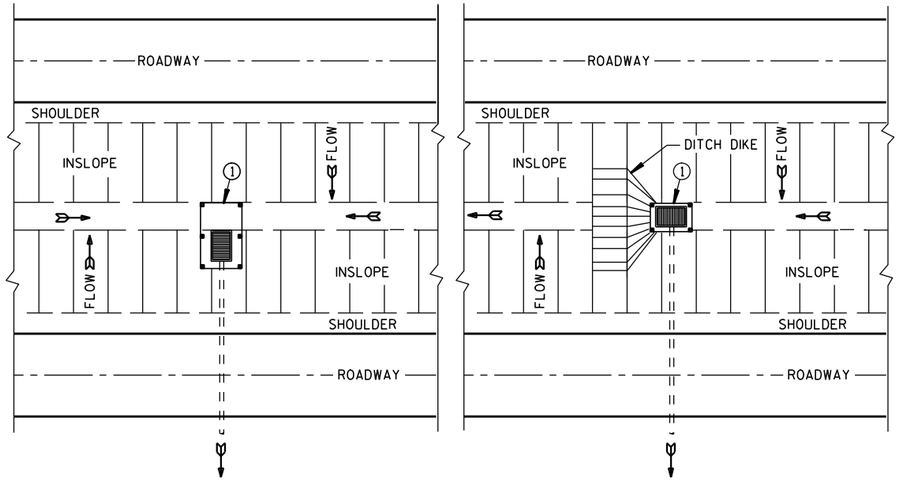
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



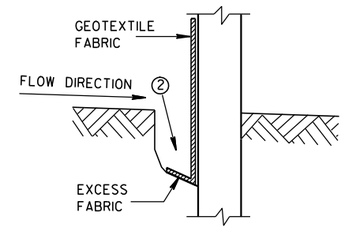
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

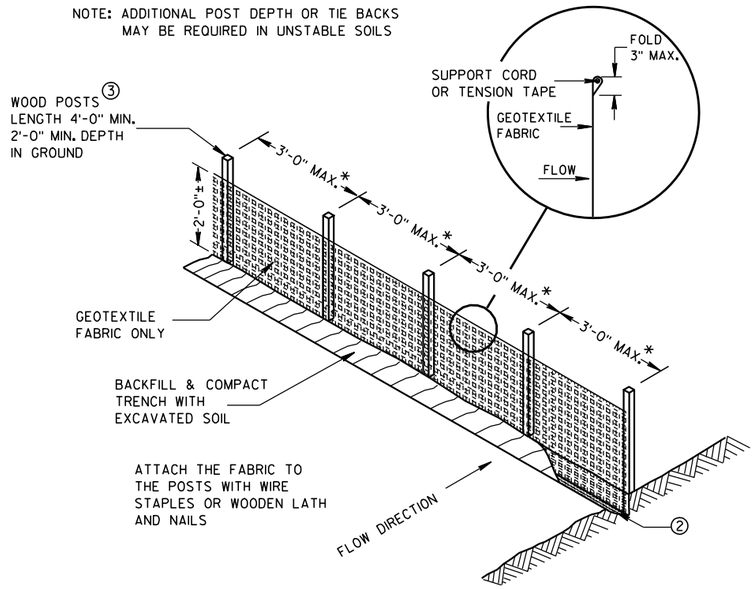
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

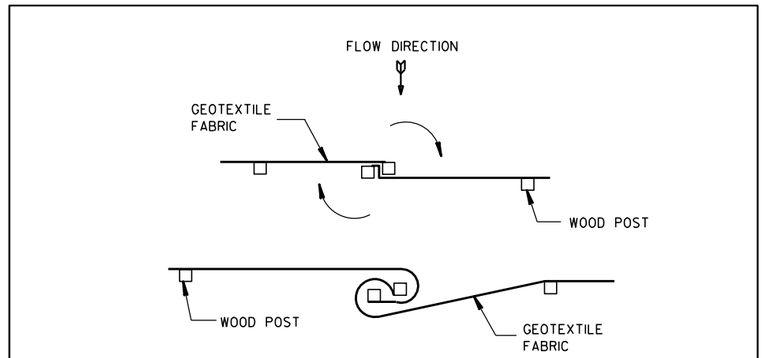
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



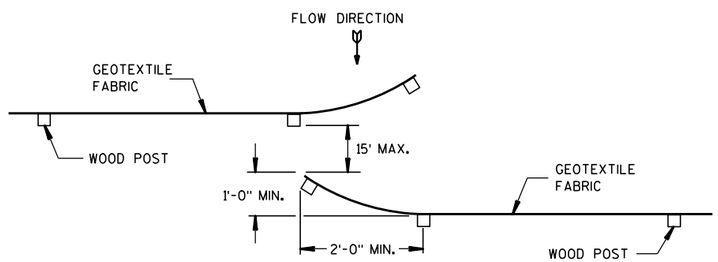
TRENCH DETAIL



SILT FENCE

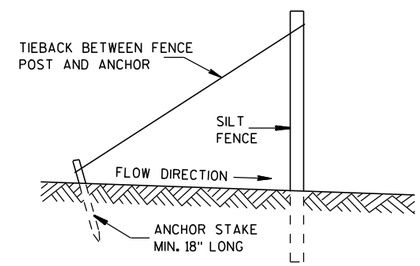


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

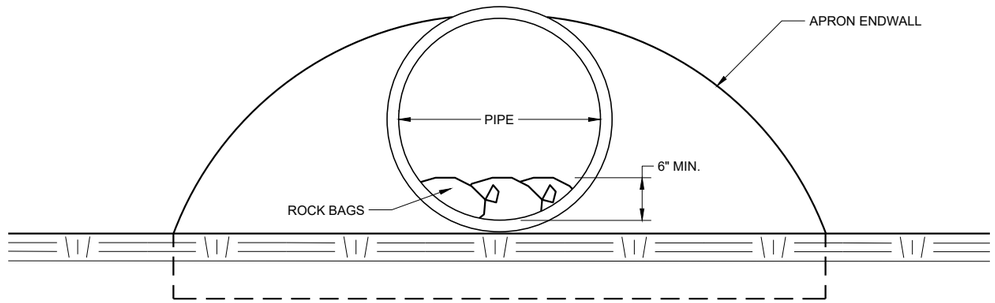
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

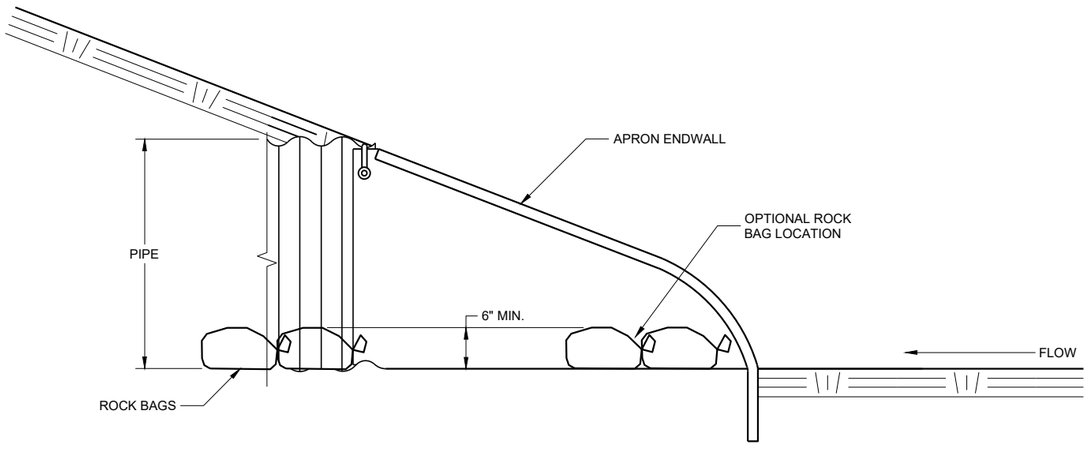
S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Daniel Schave — EROSION CONTROL ENGI
FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

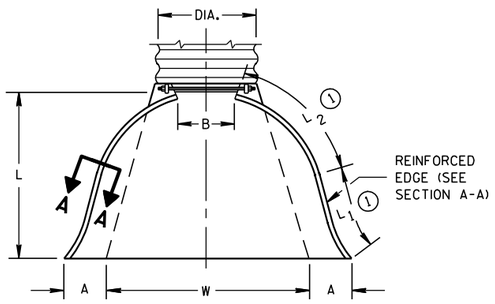
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

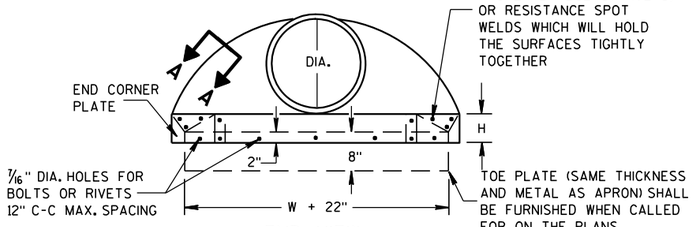
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

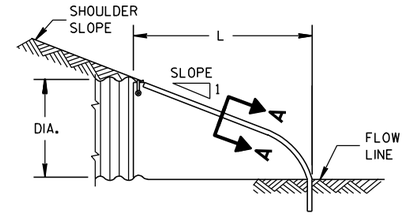
*MINIMUM
**MAXIMUM



PLAN VIEW

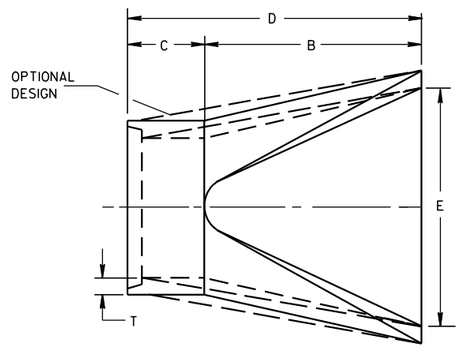


END VIEW

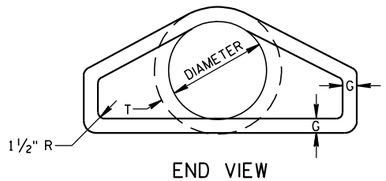


SIDE ELEVATION

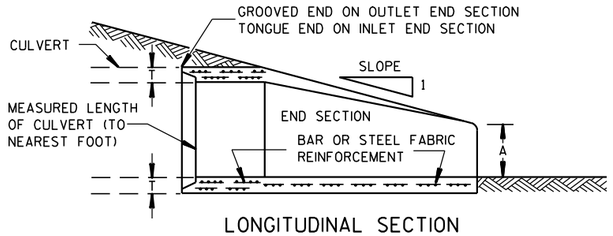
METAL ENDWALLS



PLAN

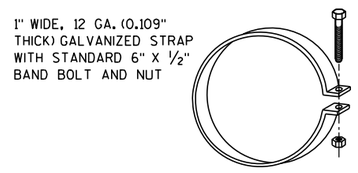


END VIEW



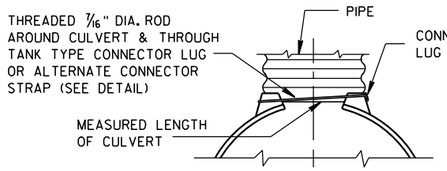
LONGITUDINAL SECTION

CONCRETE ENDWALLS

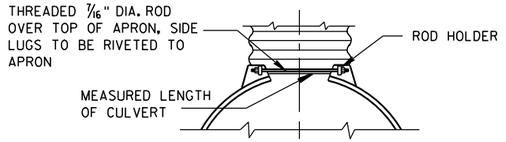


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

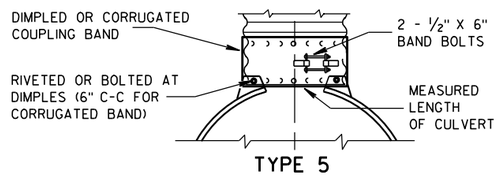


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

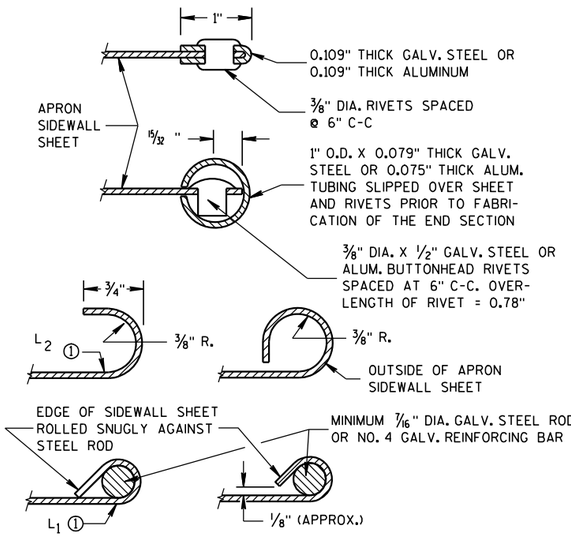
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

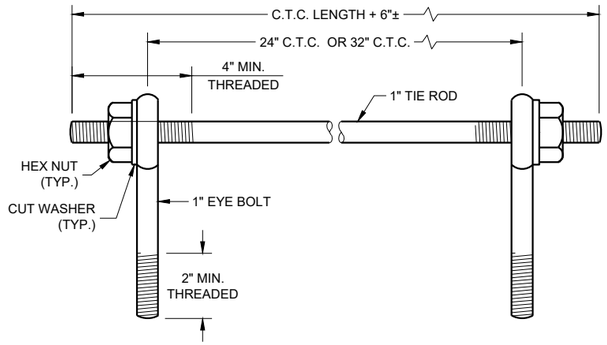
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

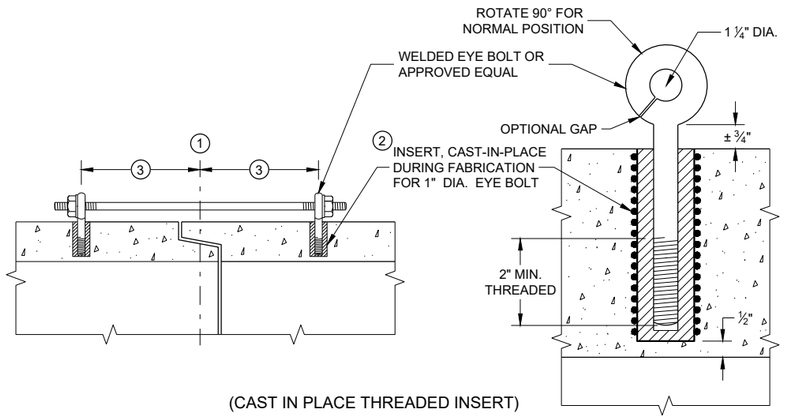
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

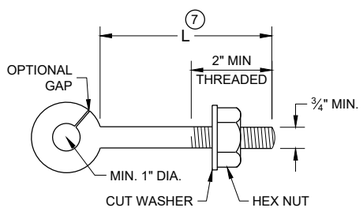
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

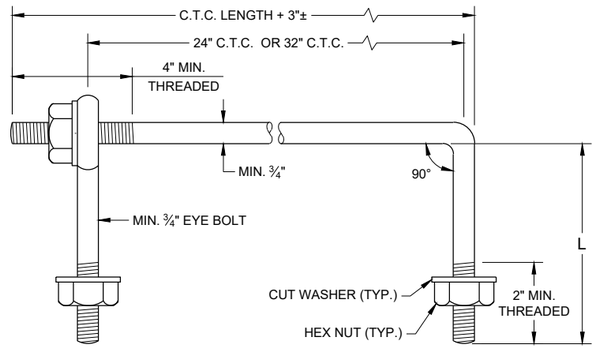
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

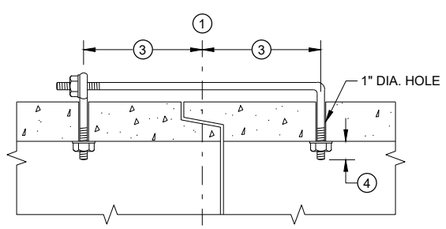


EYE BOLT (7)

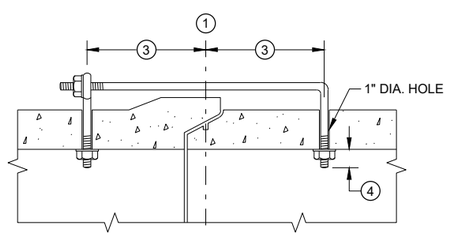
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

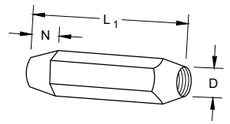
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

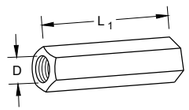
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



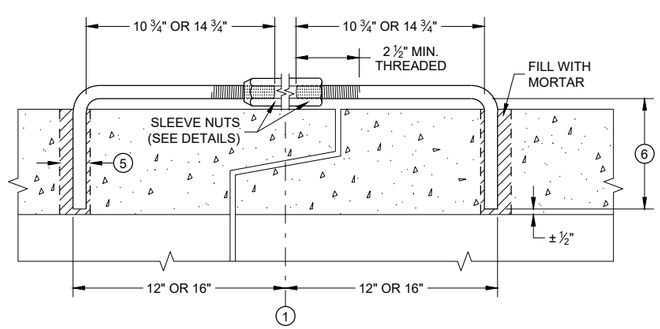
TAPERED



PLAIN

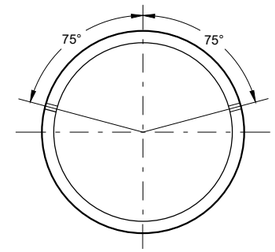
RIGHT AND LEFT THREADS

SLEEVE NUTS



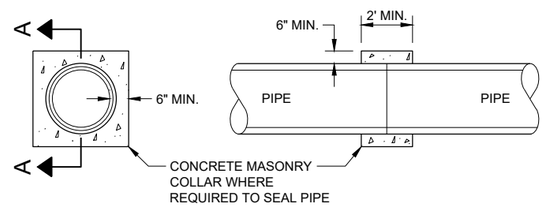
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

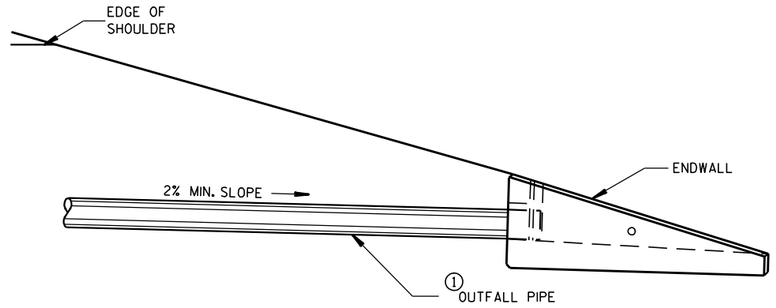
FHWA

6

SDD 08F04 - 08

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

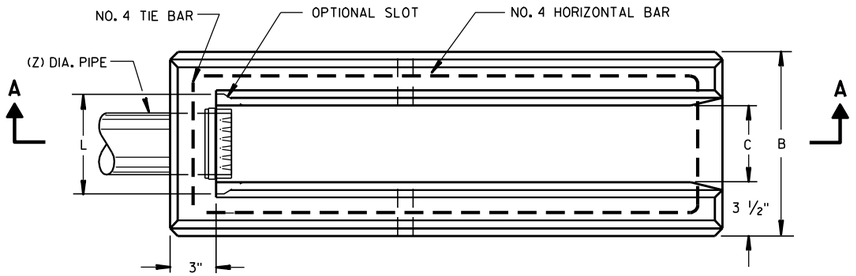
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

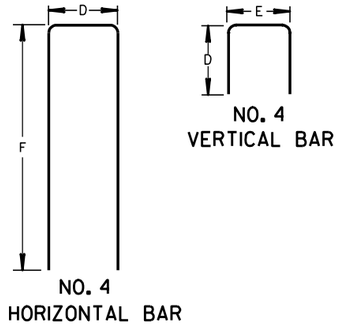
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

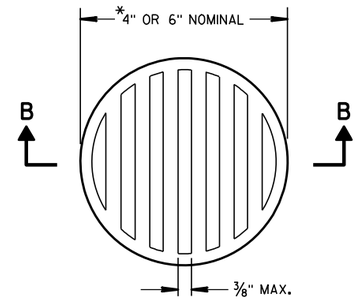
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

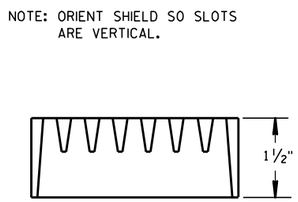


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

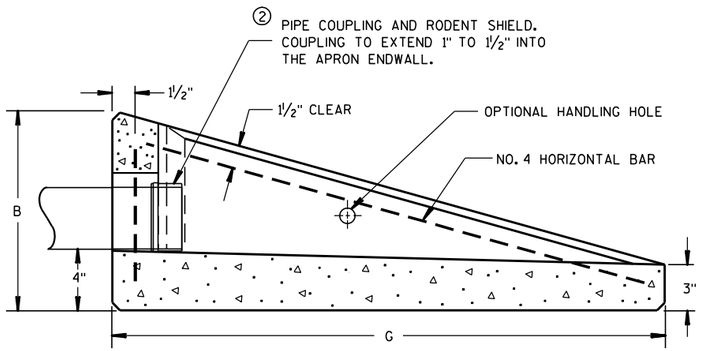




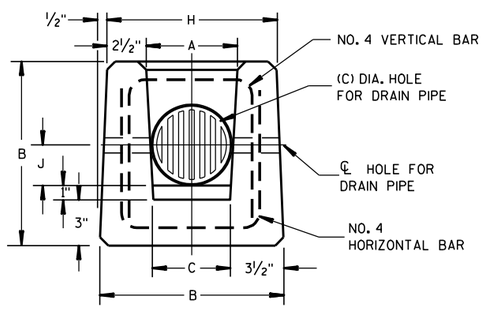
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

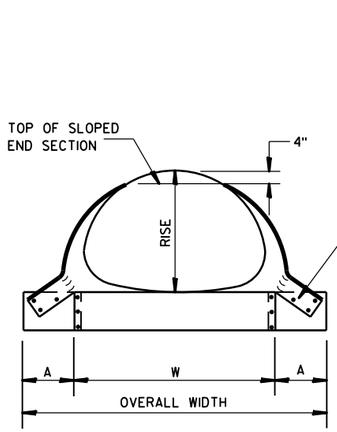
CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

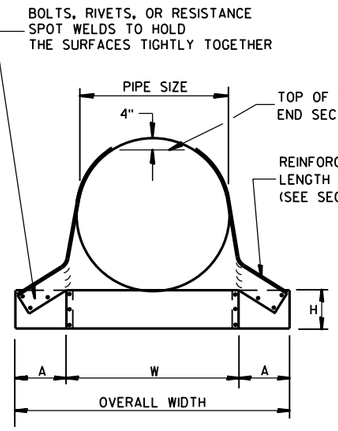
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

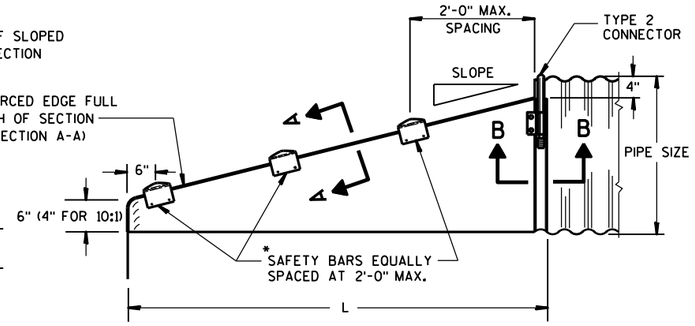
6
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

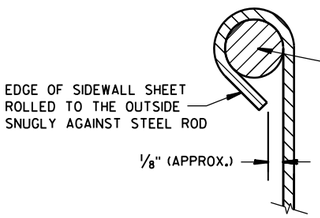
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

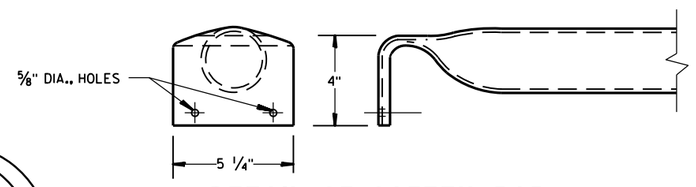
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

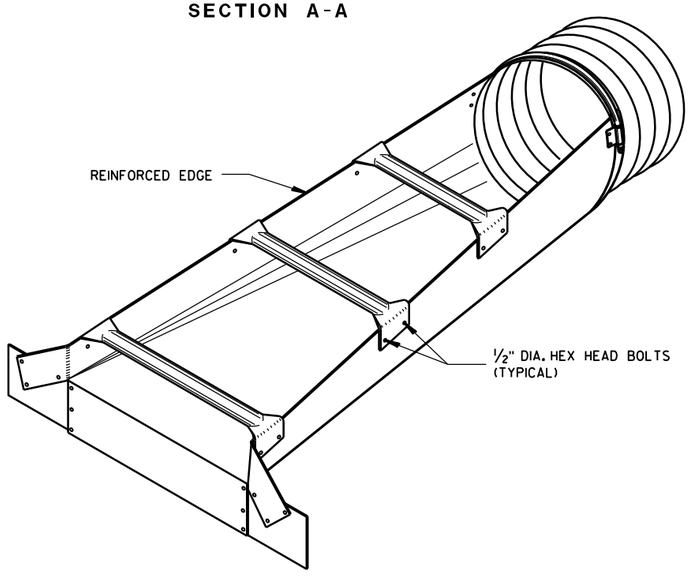


DETAIL OF SAFETY BAR

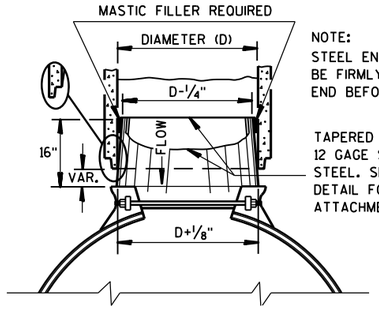
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

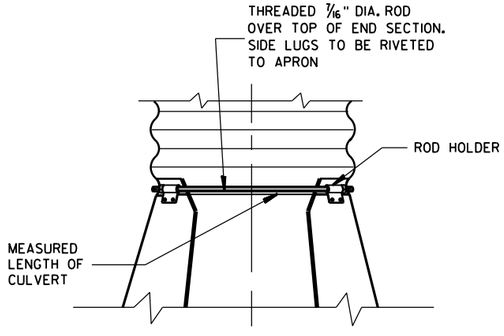
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



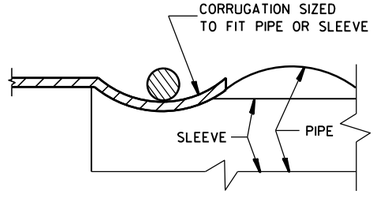
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

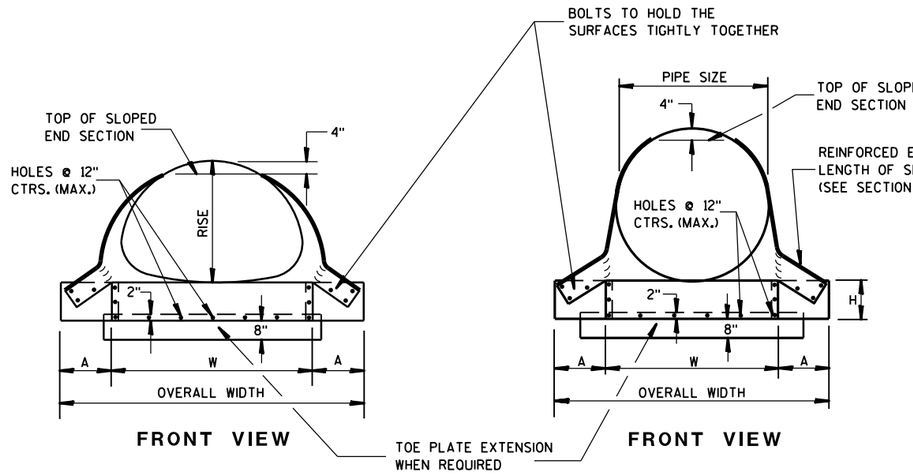
APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

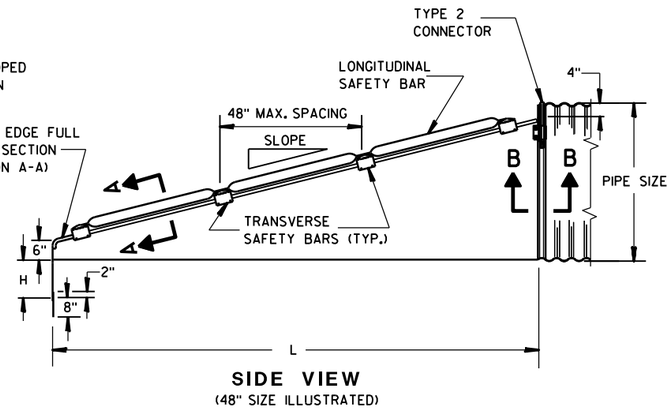
6

S.D.D. 8 F 7-5



FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

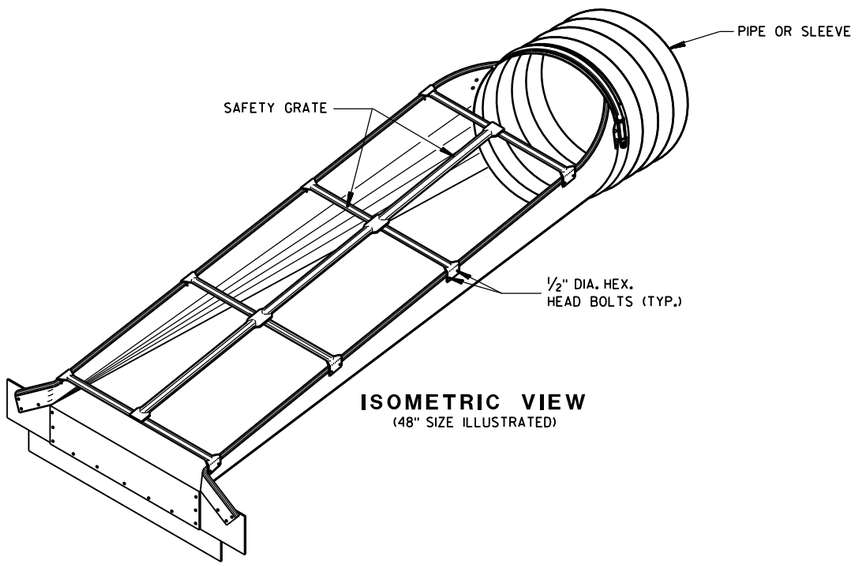
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

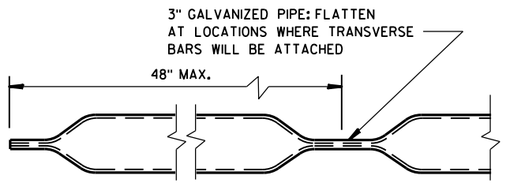
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

STEEL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS

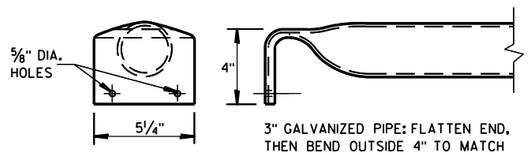
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300



ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



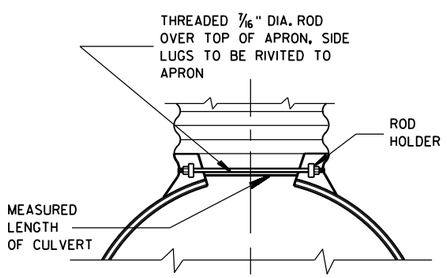
LONGITUDINAL SAFETY BAR



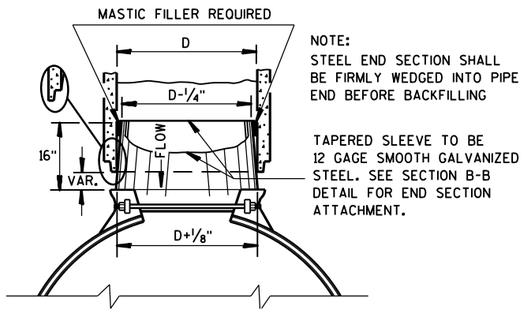
TRANSVERSE SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS

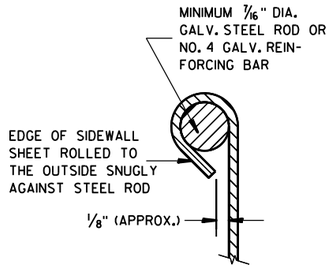
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222



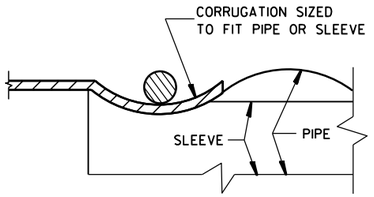
TYPE 2 CONNECTOR DETAIL



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B

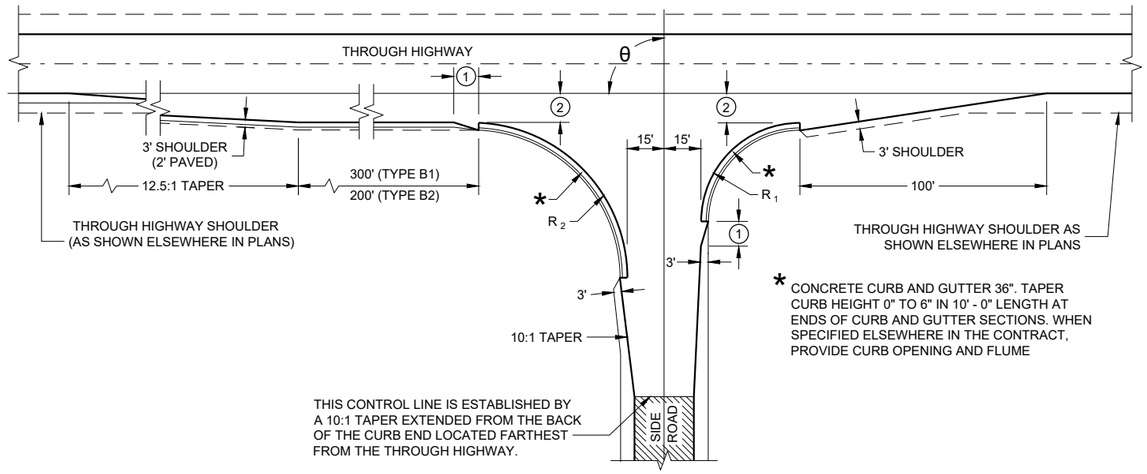
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 8-2



* CONCRETE CURB AND GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10' - 0" LENGTH AT ENDS OF CURB AND GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME

TYPE "B1" AND "B2"

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65 - 70	35	70
71 - 80	40	70
81 - 90	40	60
91 - 100	50	55
101 - 110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

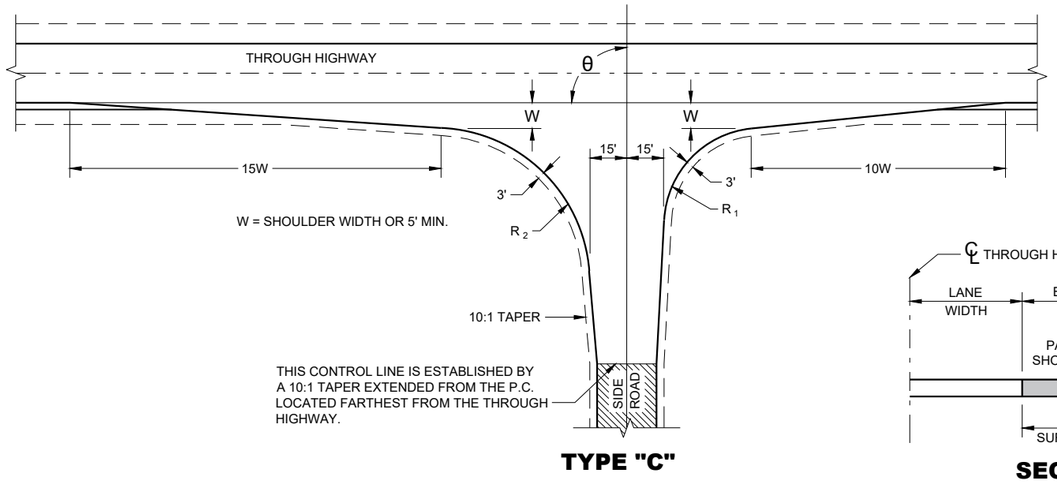
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

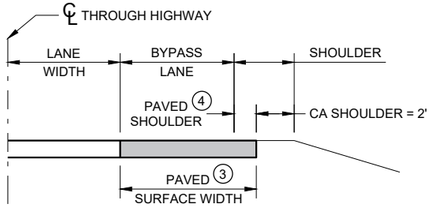
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
- ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH
- PC CONCRETE = 13-FT PLUS PAVED SHOULDER WIDTH

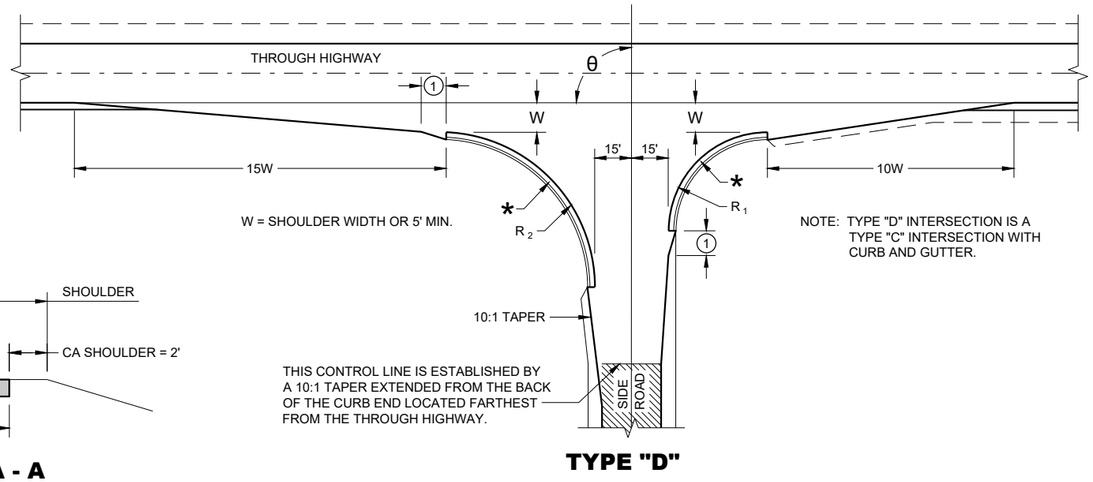
(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



TYPE "C"

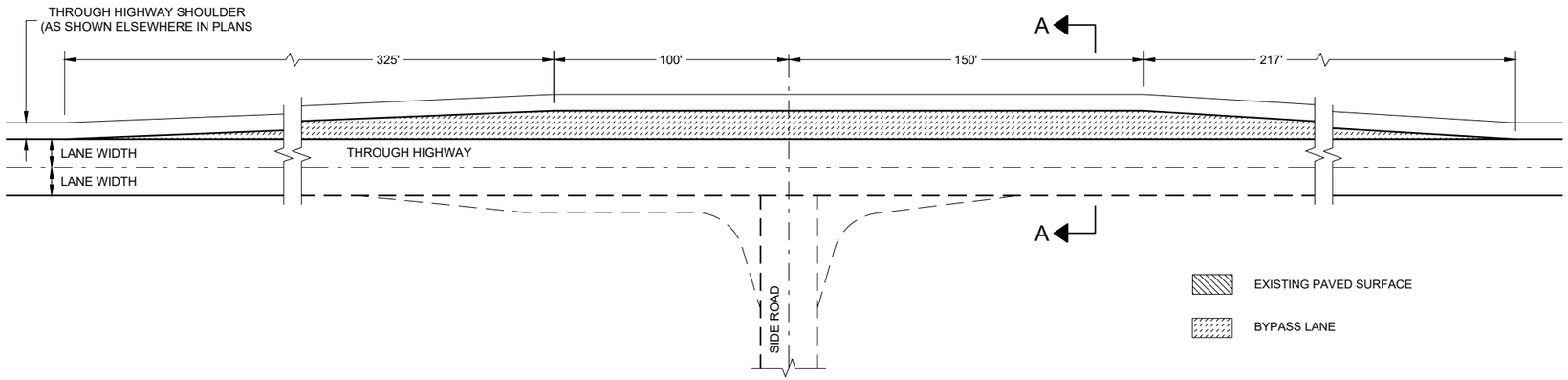


SECTION A - A
(SHOWING BYPASS LANE AND SHOULDER)



NOTE: TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB AND GUTTER.

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT GRADE SIDE ROAD INTERSECTION TYPES "B1", "B2", "C", "D" AND TEE INTERSECTION BYPASS LANE

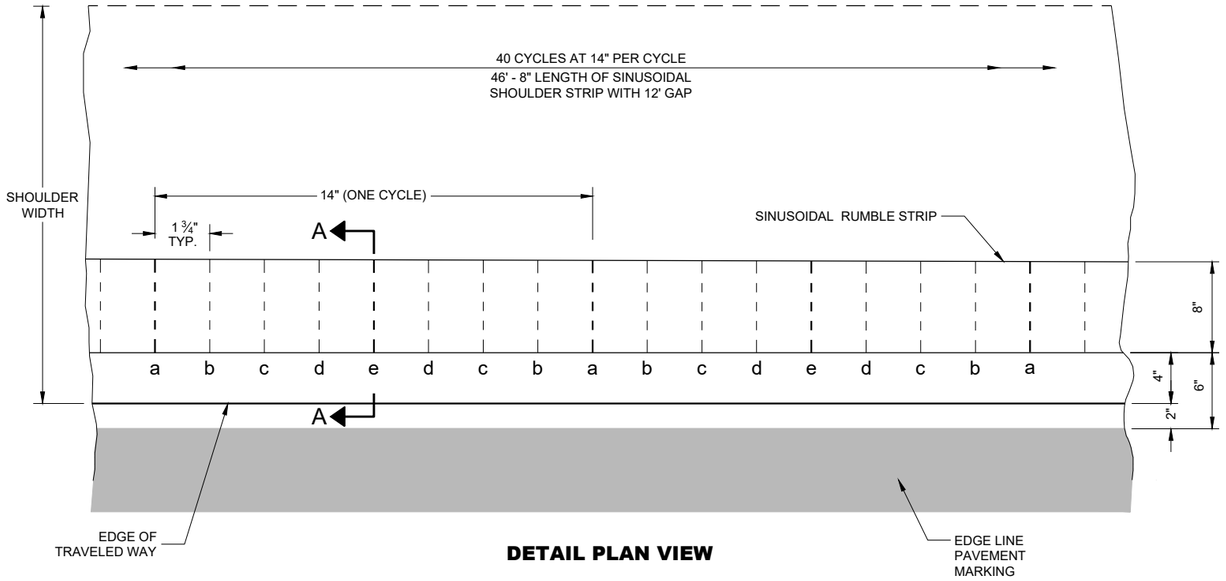
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

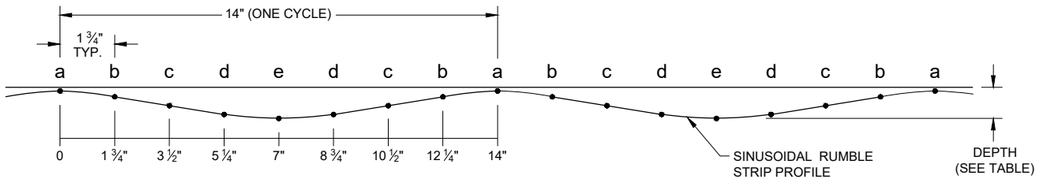
SDD 09A01 - 14a

6

SDD 09A01 - 14a



DETAIL PLAN VIEW



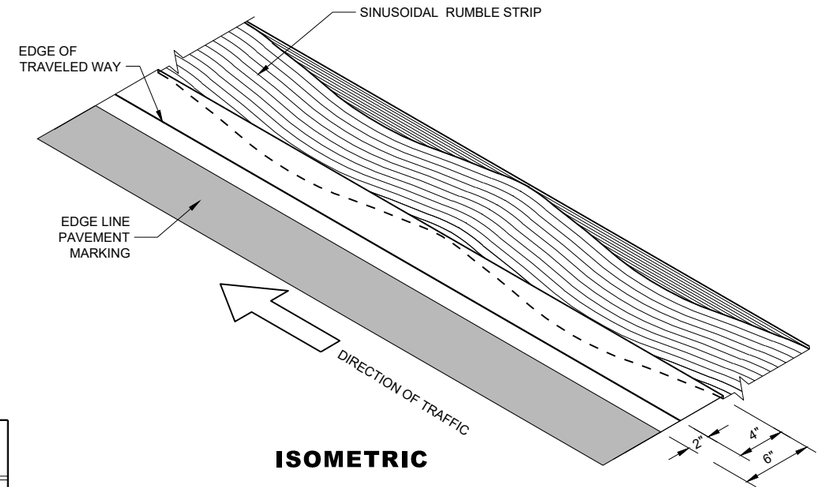
PROFILE VIEW

LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

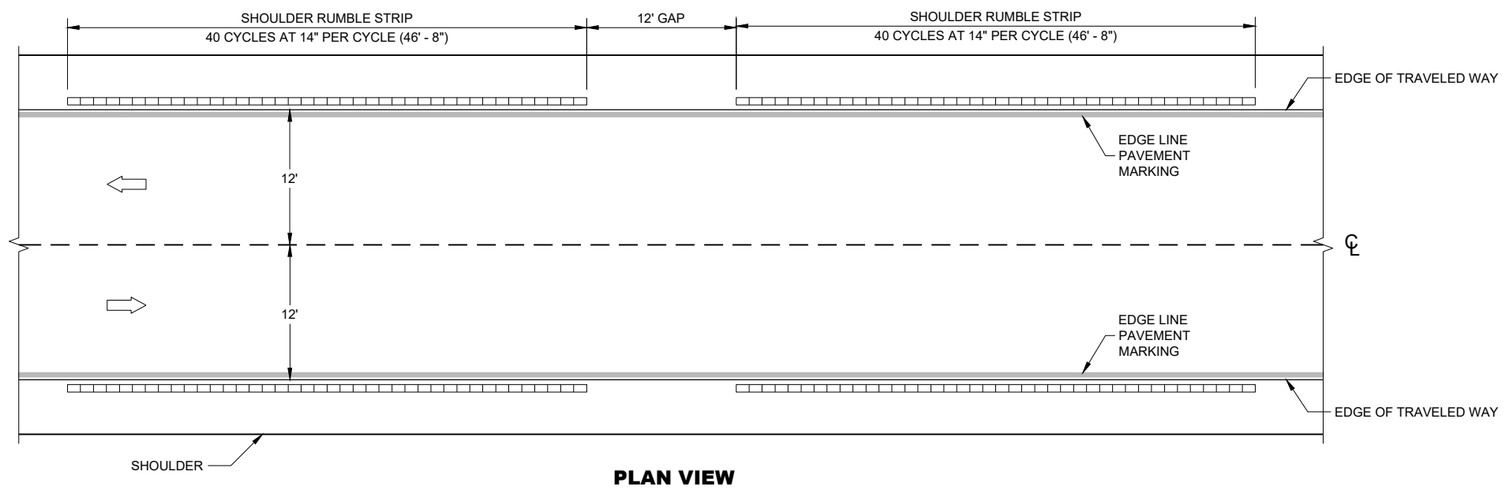
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

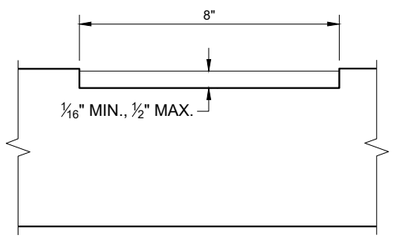
SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



PLAN VIEW



SECTION A - A

SHOULDER RUMBLE STRIPS - ASPHALT, SINUSOIDAL

SHOULDER RUMBLE STRIPS - ASPHALT, SINUSOIDAL

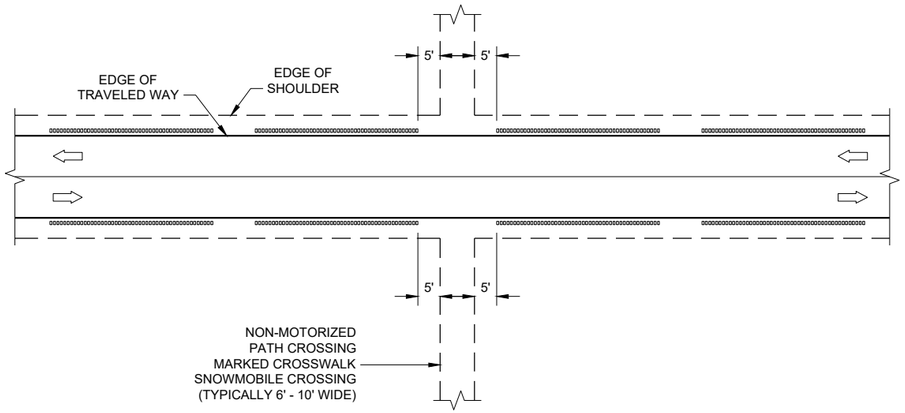
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

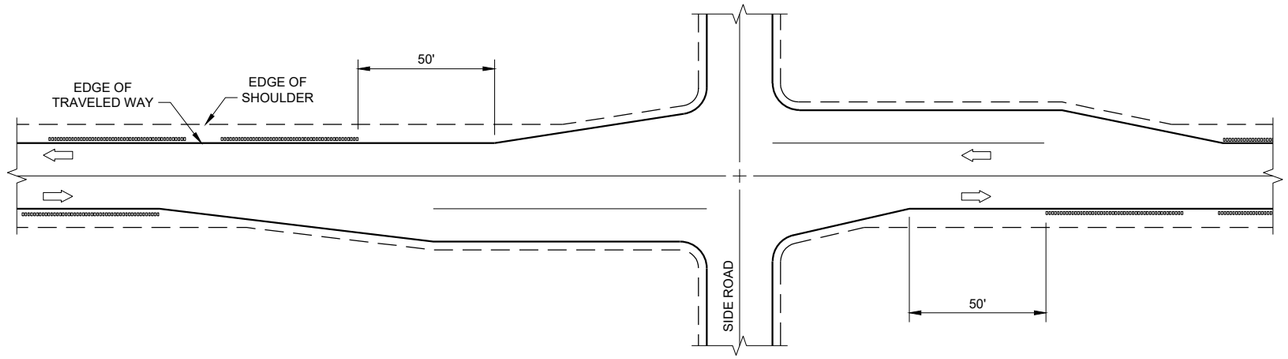
SDD 13A10 - 03c

6

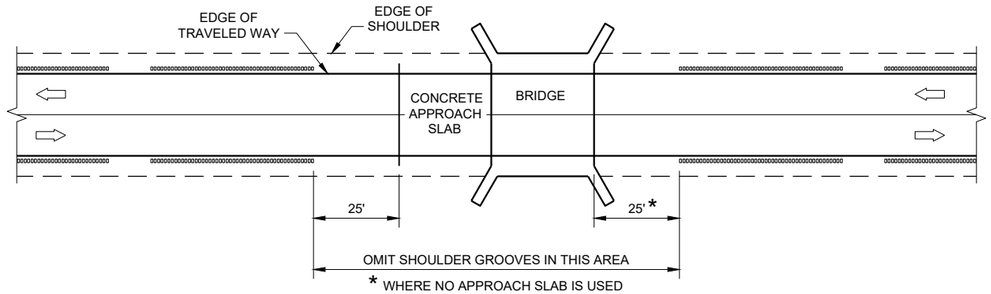
SDD 13A10 - 03c



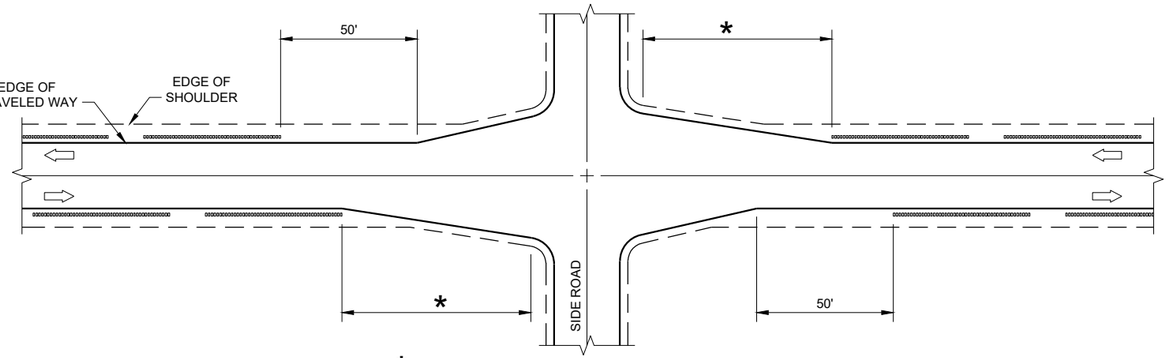
GROOVES AT MISCELLANEOUS CROSSINGS



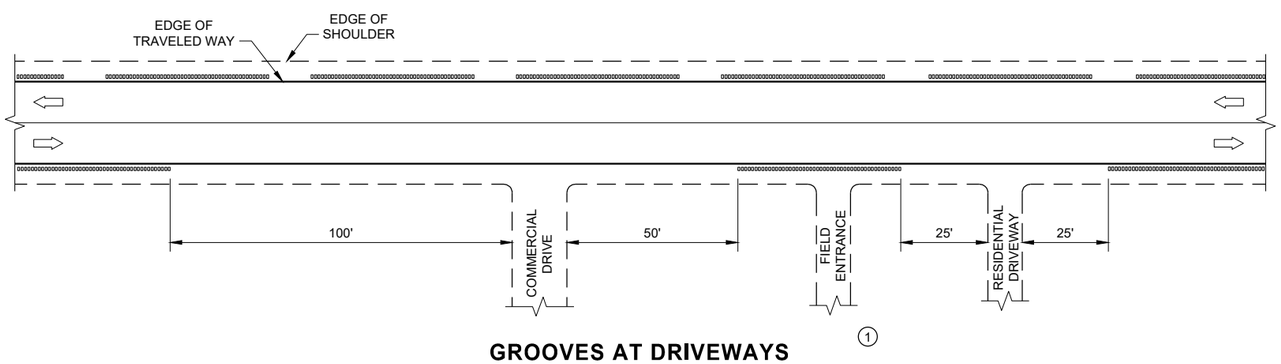
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

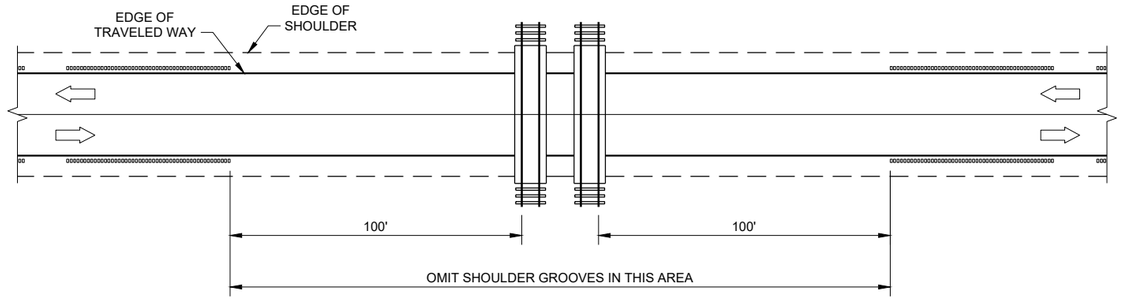
① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

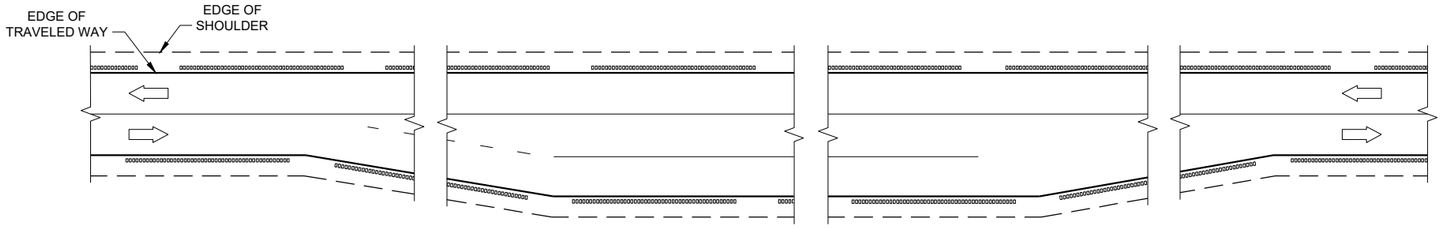
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

6

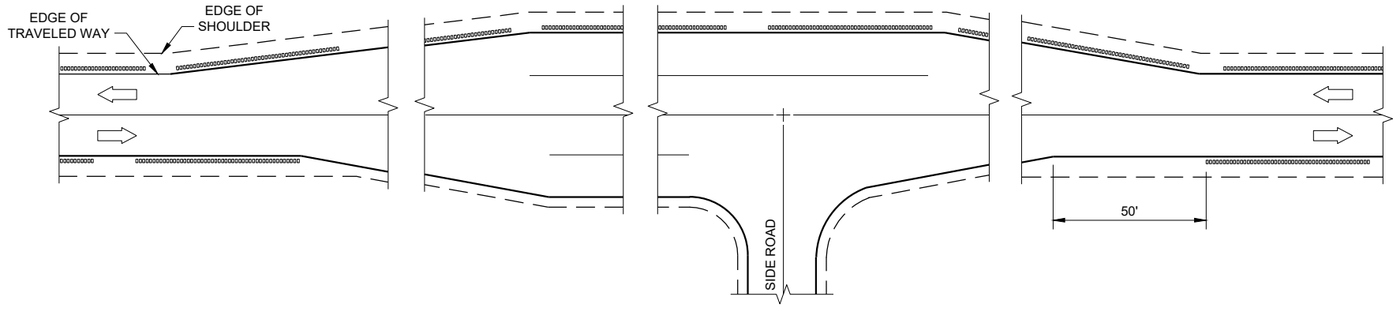
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

6

SDD 13A10 - 03h

SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

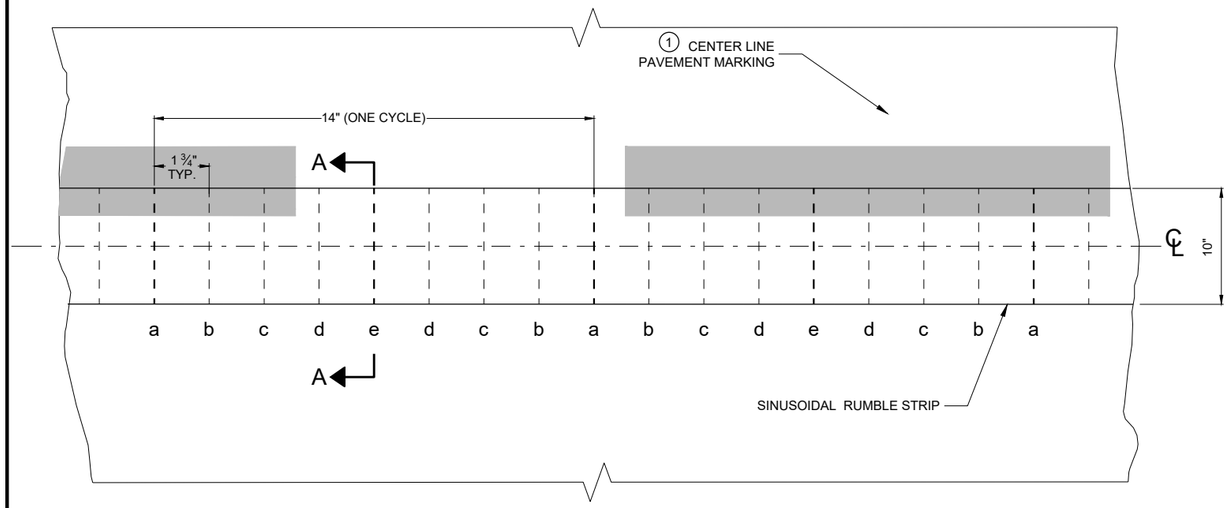
SDD 13A10 - 03h

GENERAL NOTES

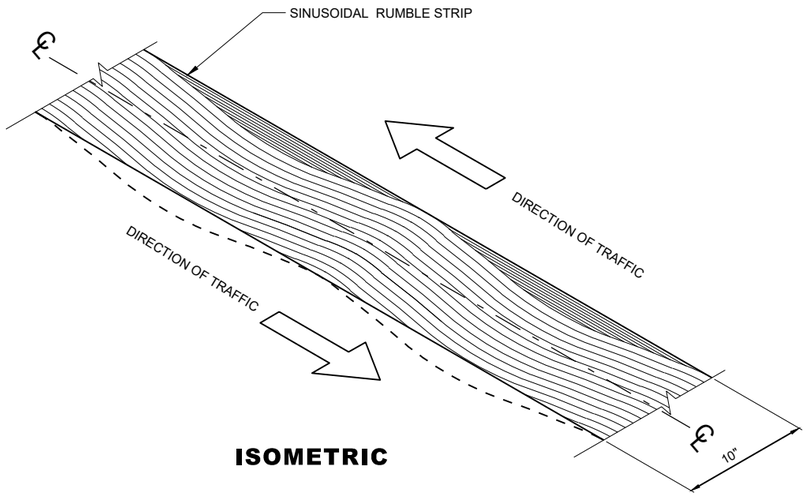
SDD 13A11, SHEET "d" SHOWS THE LOCATIONS OF RUMBLE STRIPS AT INTERSECTIONS, INTERSECTIONS WITH LEFT TURN LANES, BRIDGES, COMMERCIAL AND RESIDENTIAL DRIVEWAYS AND RAILROAD CROSSINGS.

SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

(1) CENTERLINE PAVEMENT MARKINGS SHALL BE PLACED PARTIALLY IN RUMBLE STRIP GROOVE AND PARTIALLY OUT OF THE RUMBLE STRIP GROOVE.



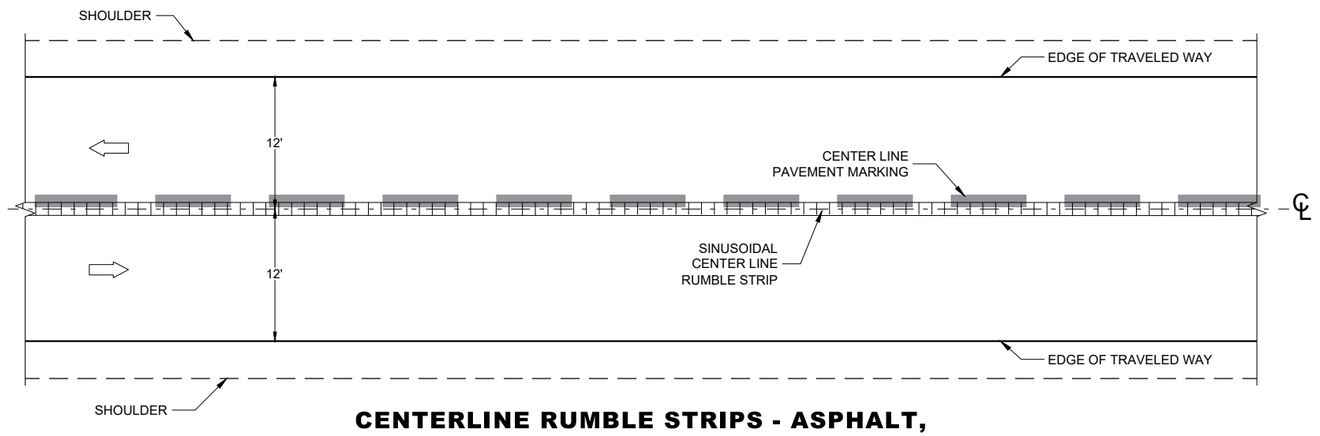
PLAN DETAIL VIEW



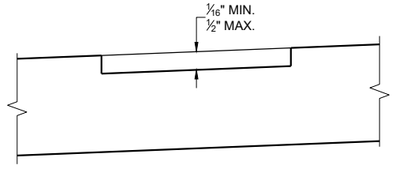
ISOMETRIC

PROFILE VIEW
SINUSOIDAL CENTERLINE RUMBLE STRIPS

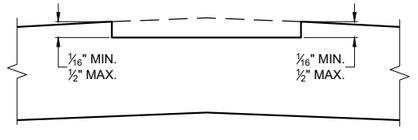
LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"



CENTERLINE RUMBLE STRIPS - ASPHALT, SINUSOIDAL



SECTION A - A
SUPERELEVATED ROADWAY



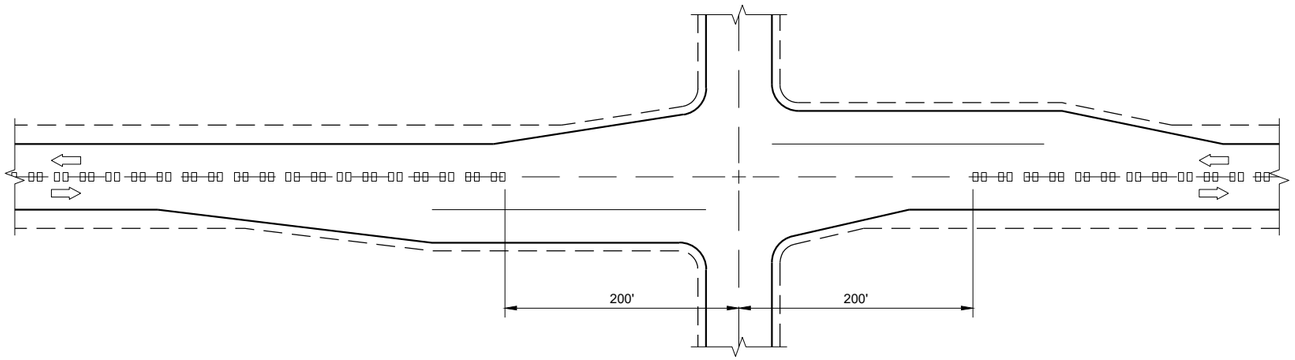
SECTION A - A
CROWNED ROADWAY

CENTERLINE RUMBLE STRIPS - ASPHALT, SINUSOIDAL

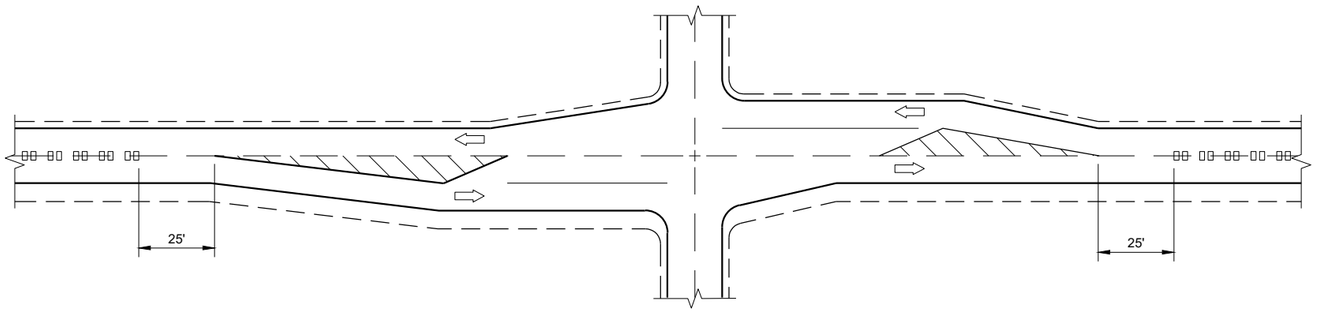
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

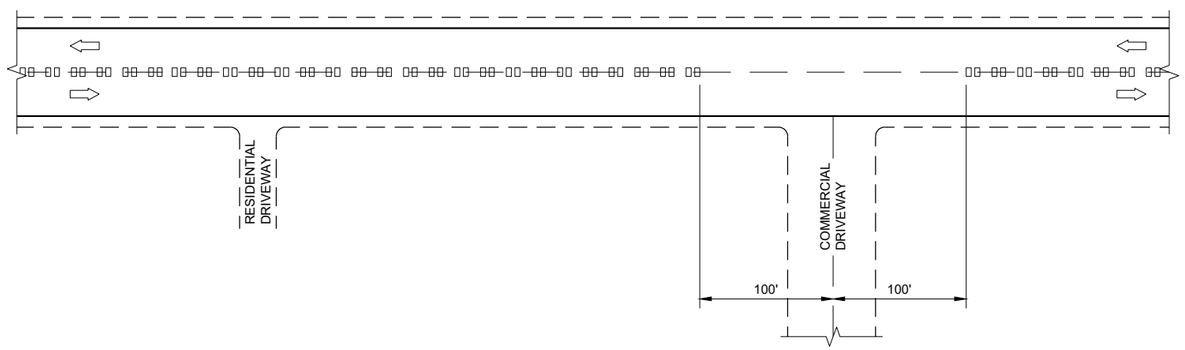
SDD 13A11 - 04c



CENTERLINE GROOVES AT INTERSECTIONS



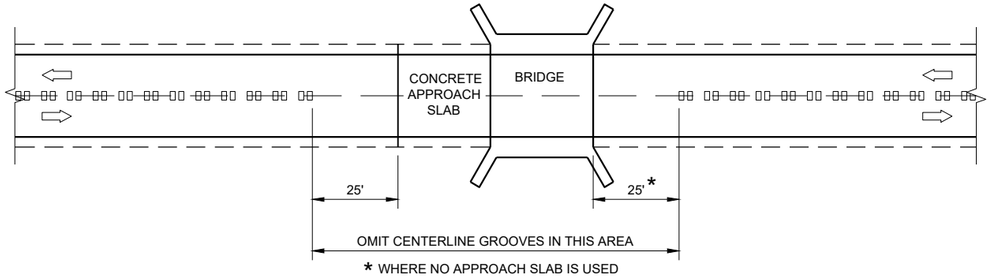
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



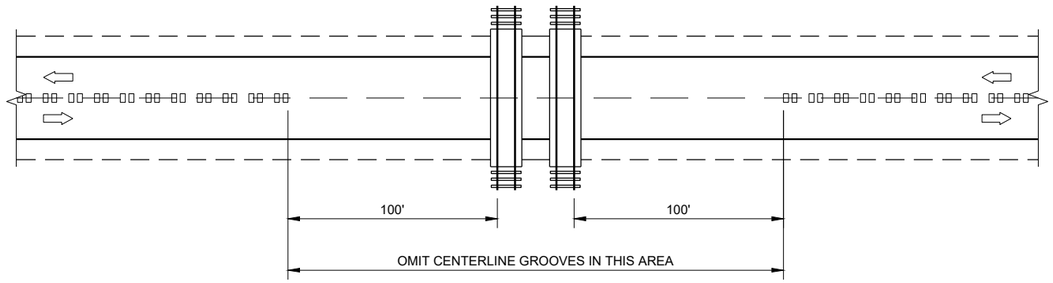
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

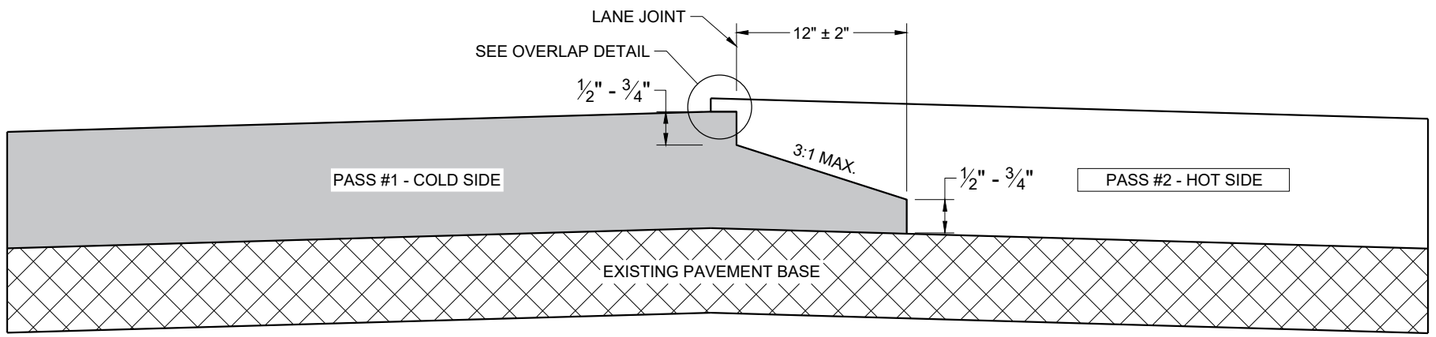
FHWA

6

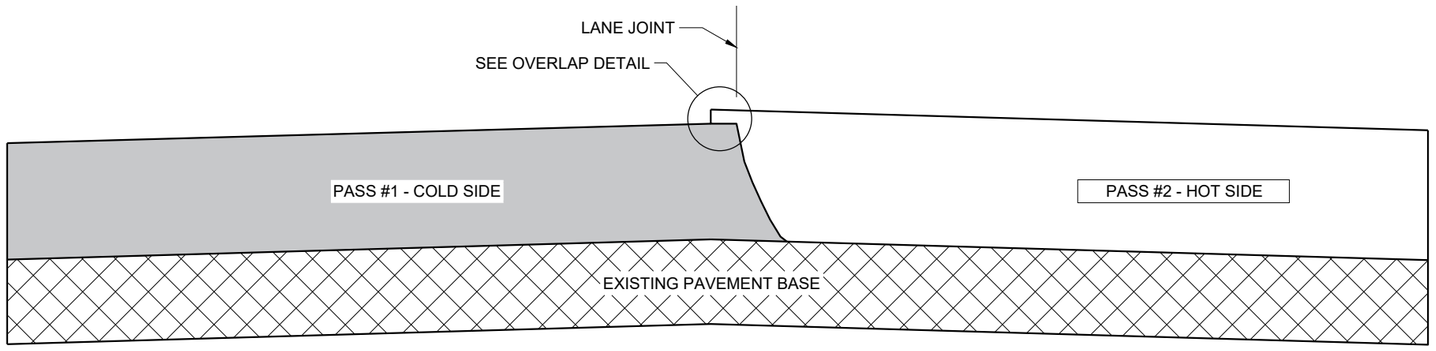
SDD 13A11 - 04d

6

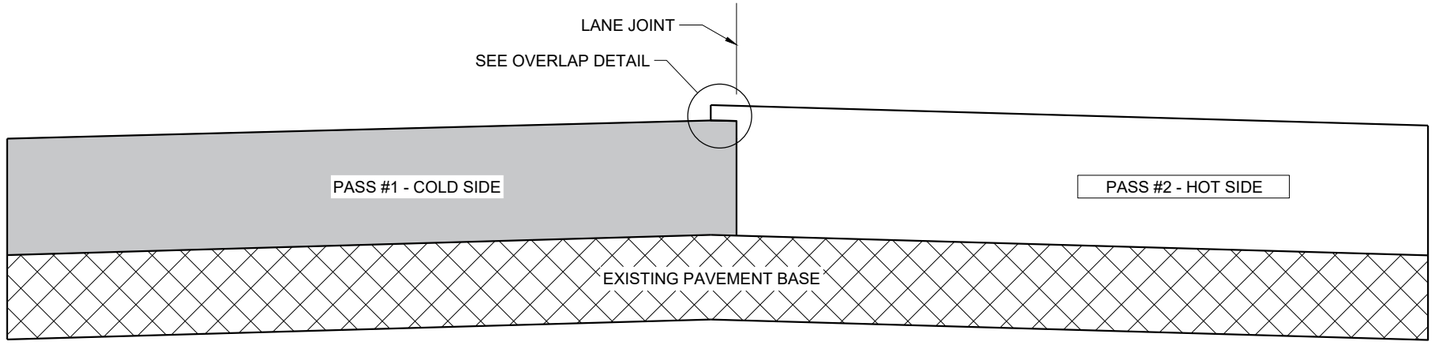
SDD 13A11 - 04d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

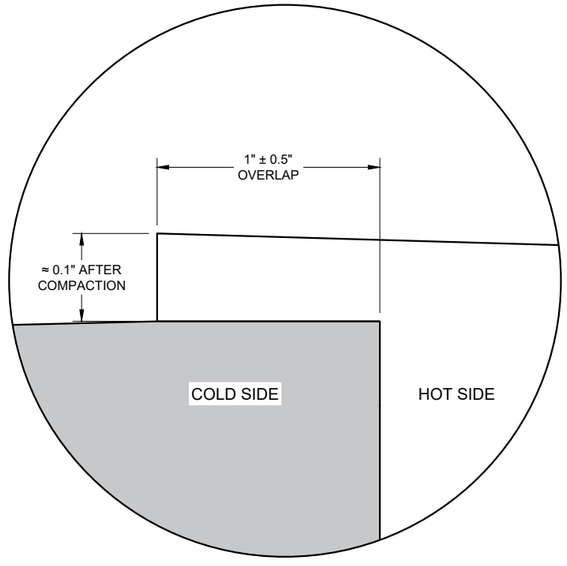
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

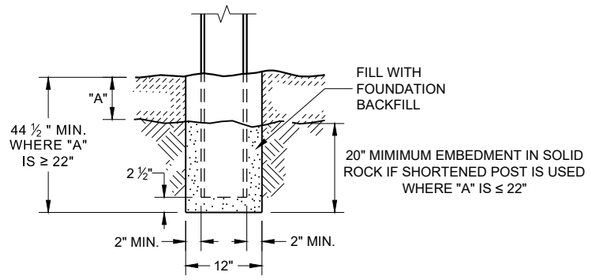
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

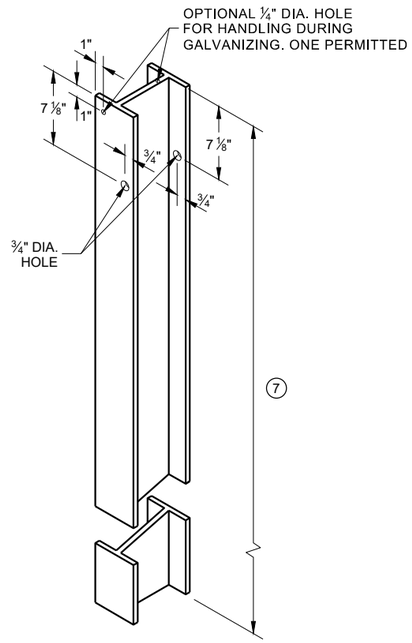
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

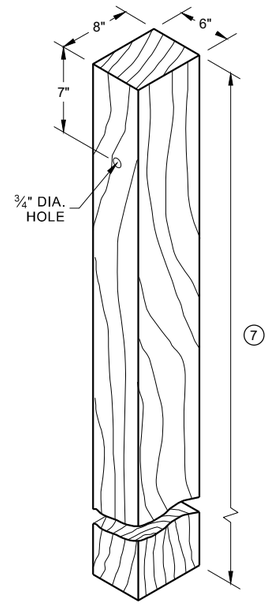
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



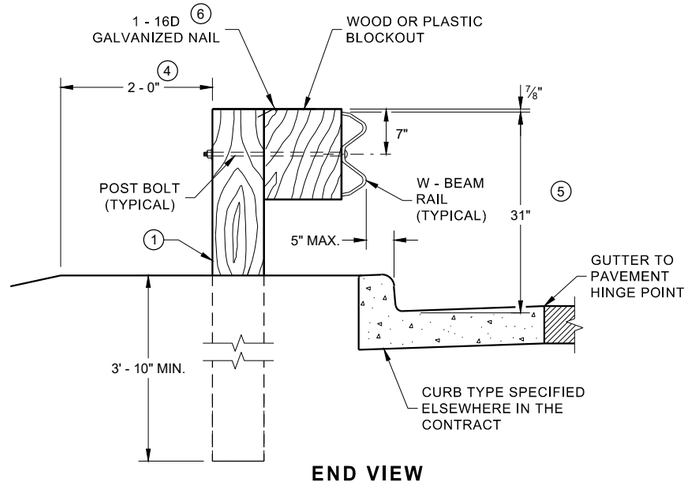
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



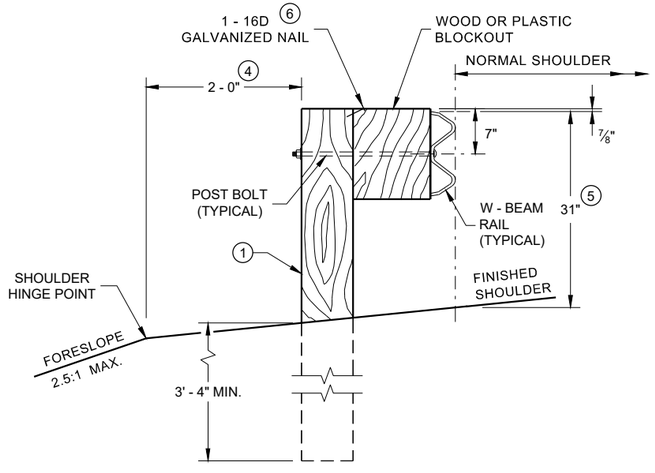
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



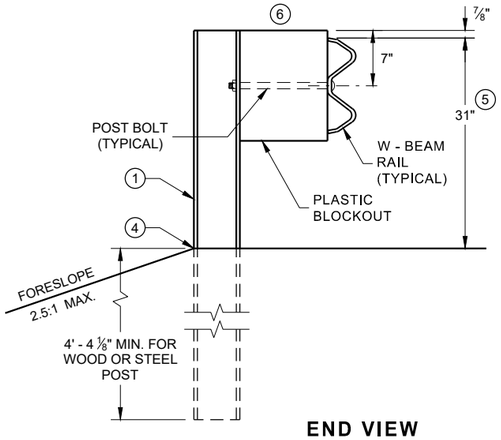
WOOD POST (6" X 8") NOMINAL (1)



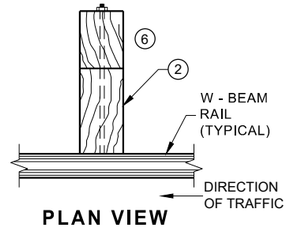
END VIEW
LOCATED ALONG A CURBED ROADWAY



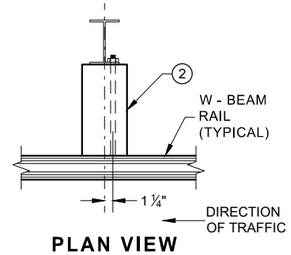
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



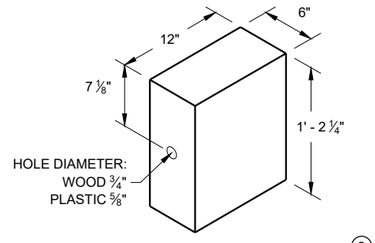
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

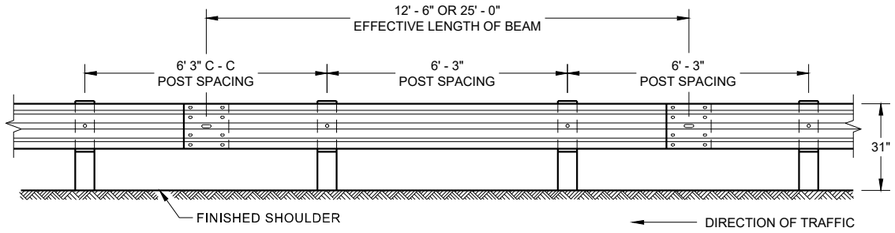
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

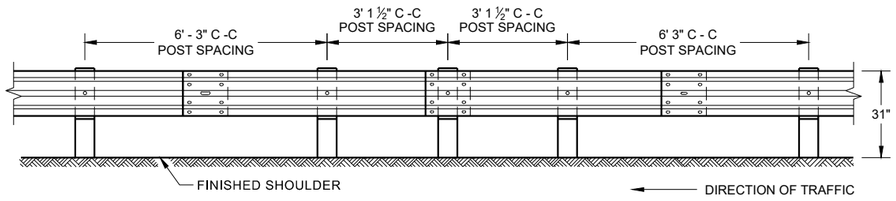
SDD 14B42 - 07a

6

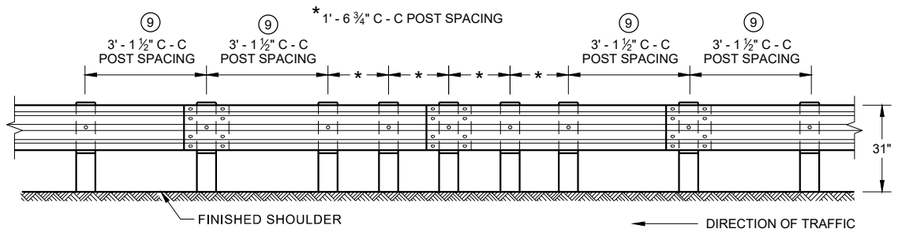
SDD 14B42 - 07a



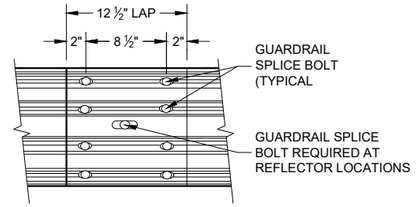
FRONT VIEW
POST SPACING STANDARD INSTALLATION



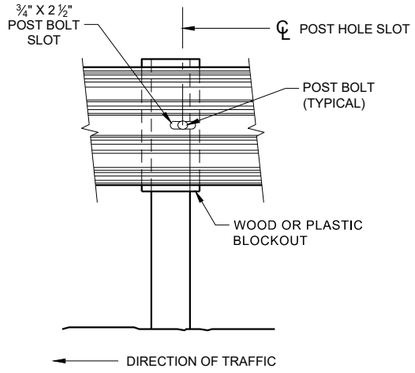
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



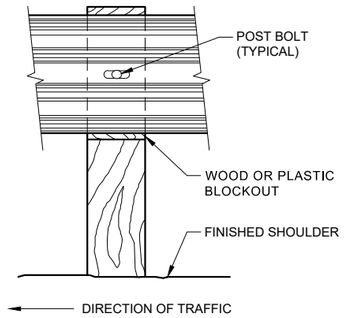
FRONT VIEW
QUARTER POST SPACING (QS)



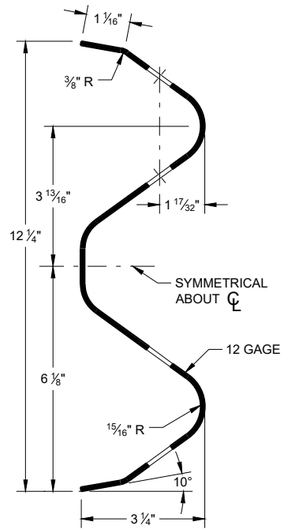
FRONT VIEW
MID-SPAN BEAM SPLICE



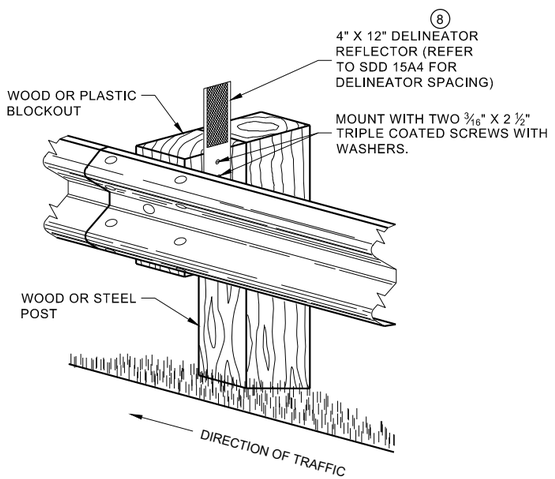
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

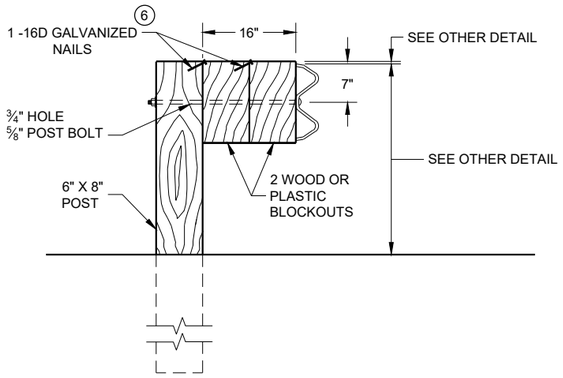
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b
SDD 14B42 - 07b

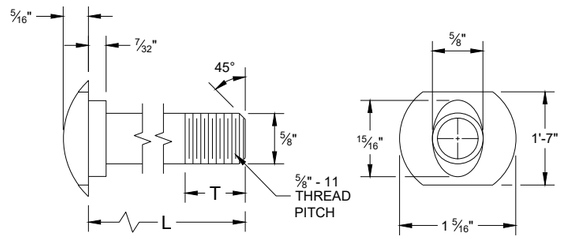


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

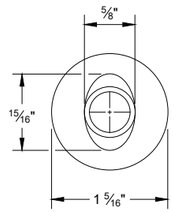
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

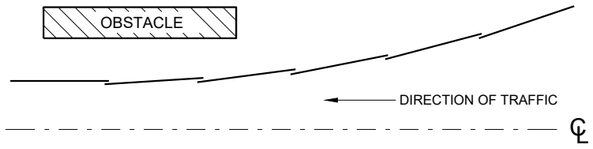


POST BOLT TABLE

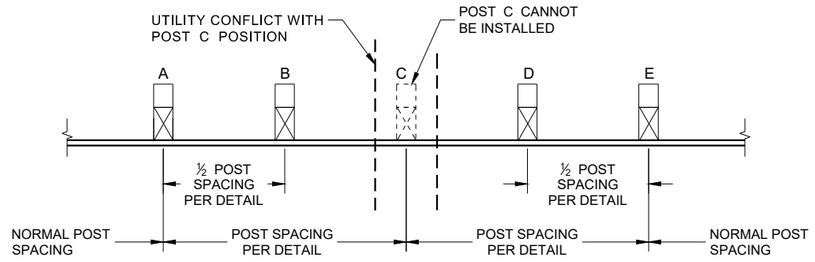
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



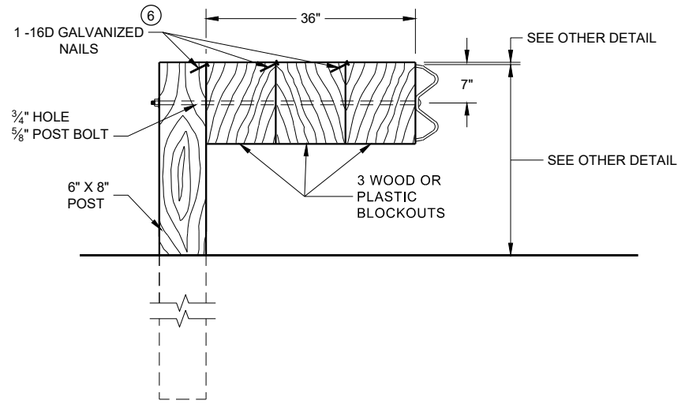
ALTERNATE BOLT HEAD



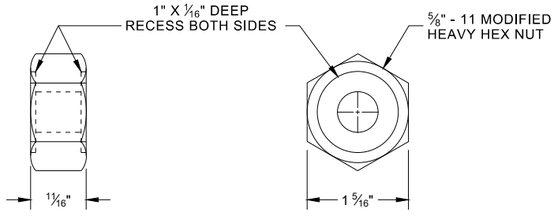
PLAN VIEW
BEAM LAPPING DETAIL



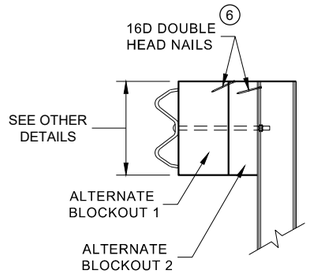
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



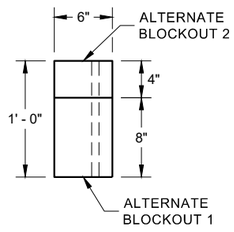
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

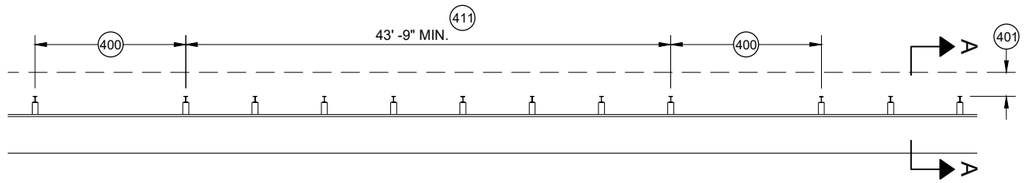
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

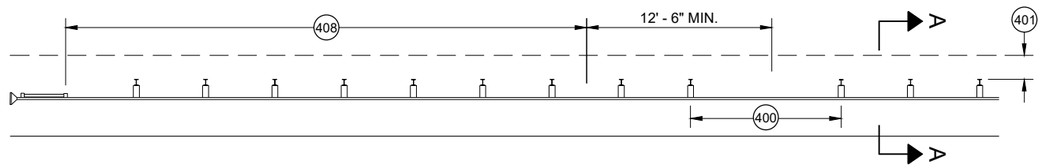
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6

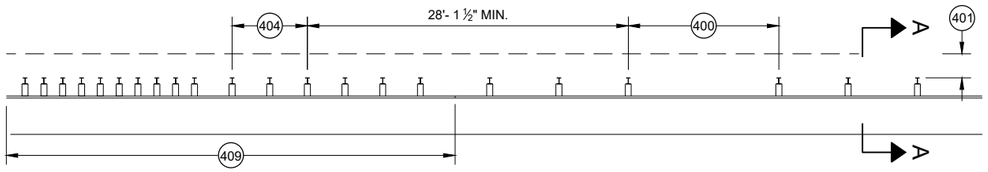
SDD 14B42 - 07c



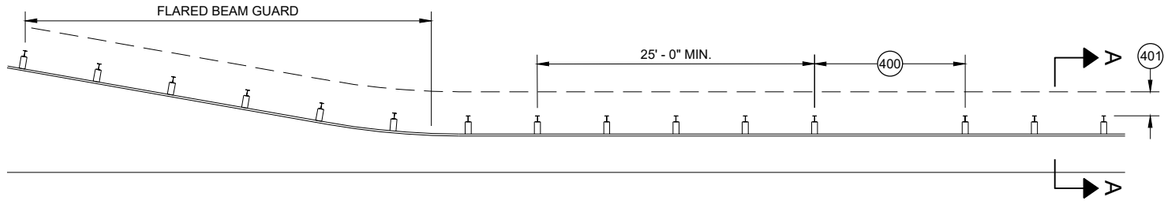
MISSING POST IN MGS GUARDRAIL



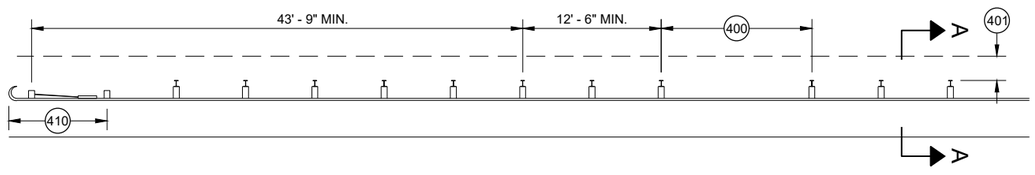
MISSING POST IN MGS GUARDRAIL NEAR EAT



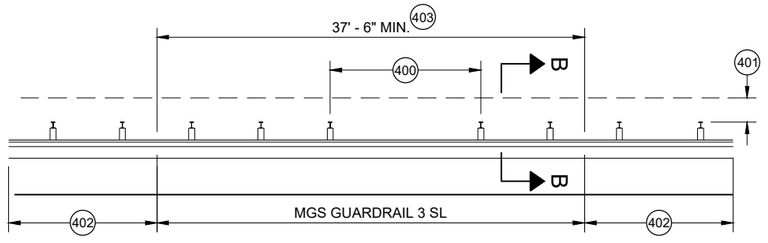
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

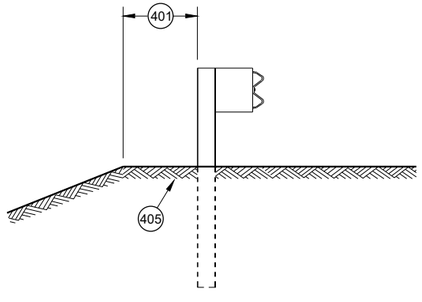


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

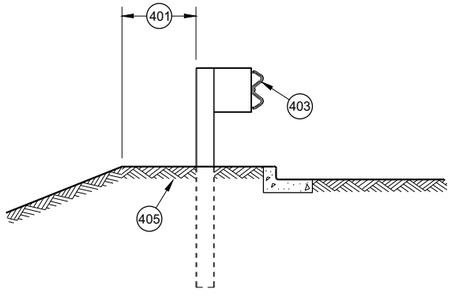


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

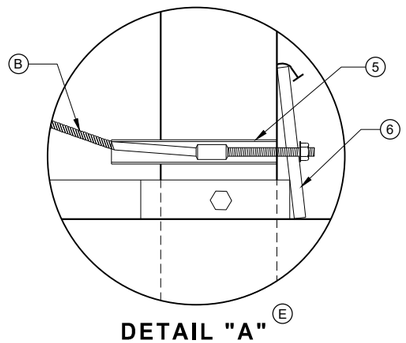
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

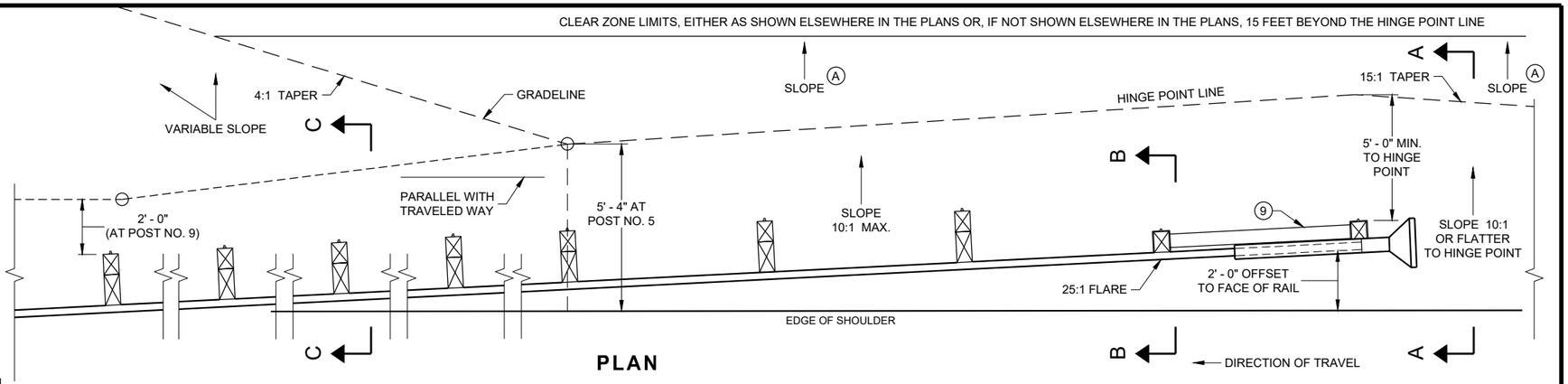
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

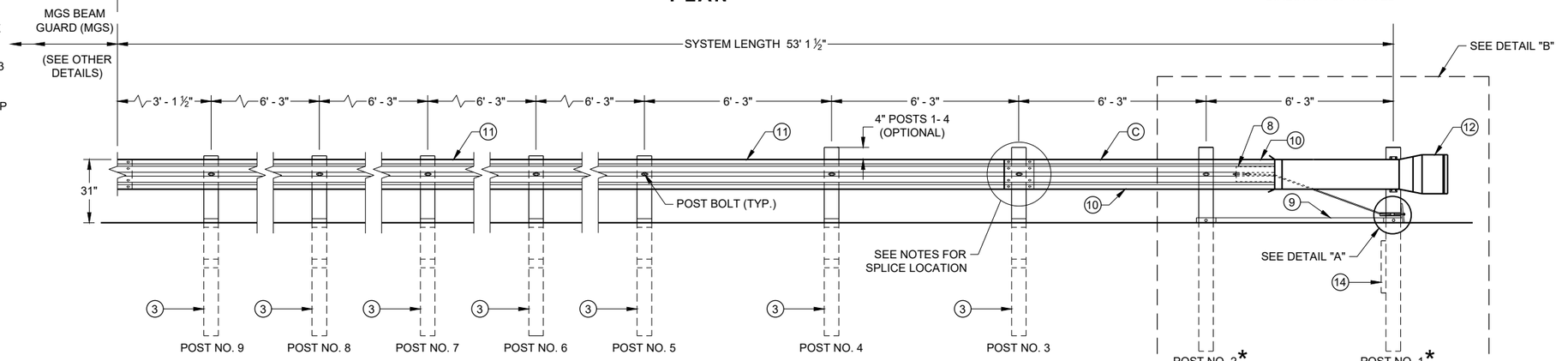
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



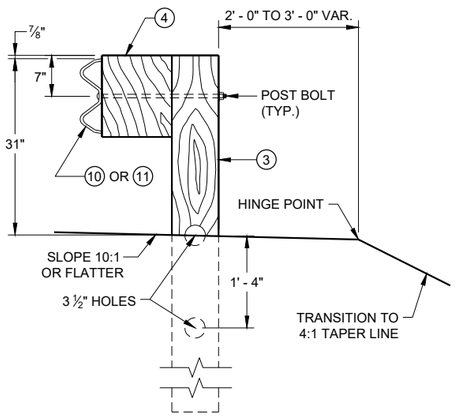
DETAIL "A" (E)



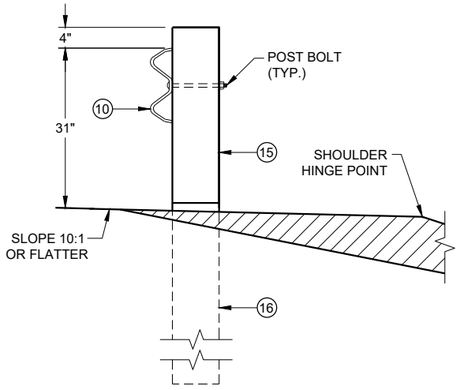
PLAN



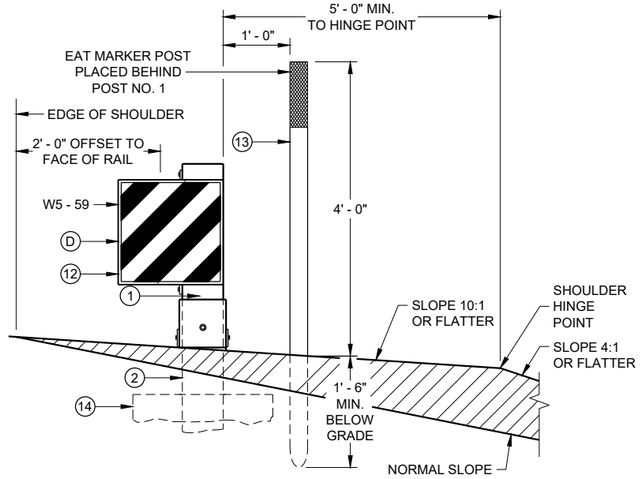
ELEVATION



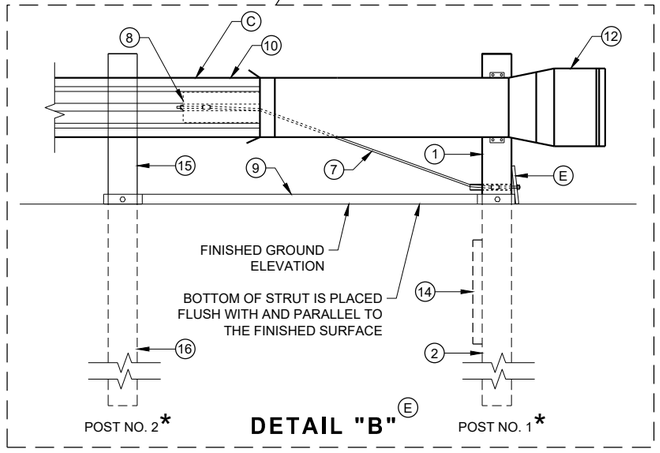
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

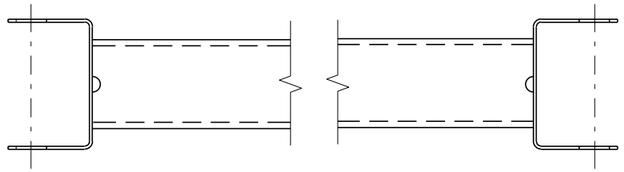
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

SDD 14B44 - 04a

6

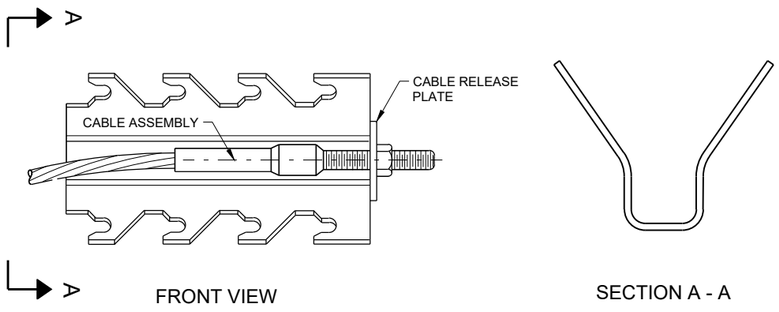
6



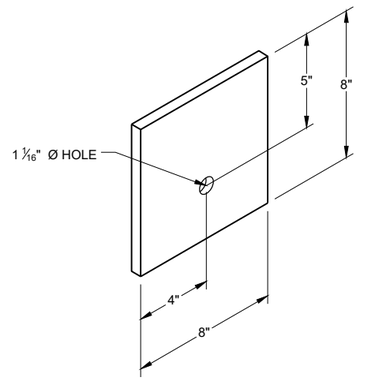
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

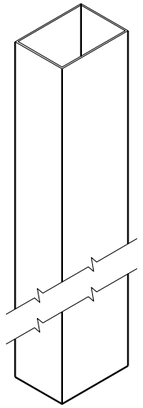
6

SDD 14B44 - 04b

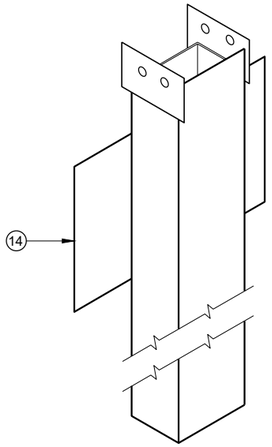
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

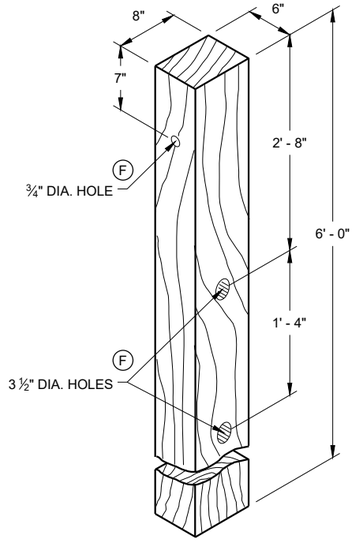
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



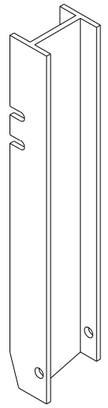
UPPER POST NO. 1 (1) (E)



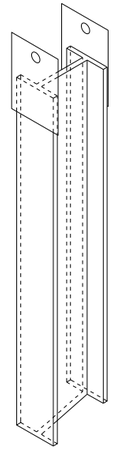
LOWER POST NO. 1 (2) (E)



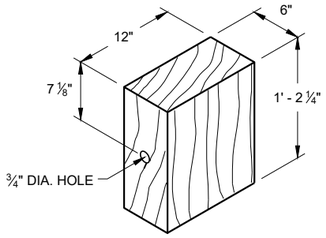
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



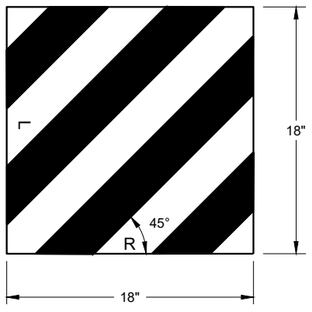
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

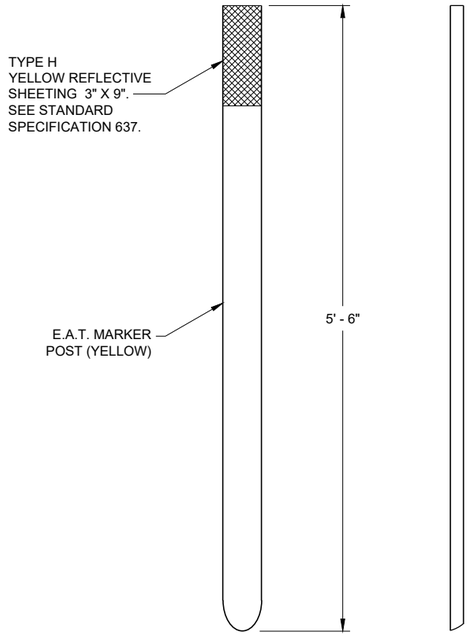


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



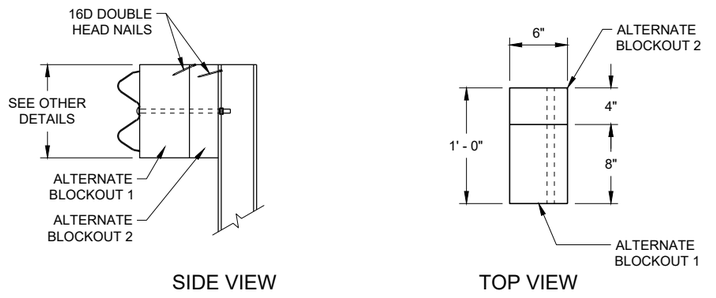
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

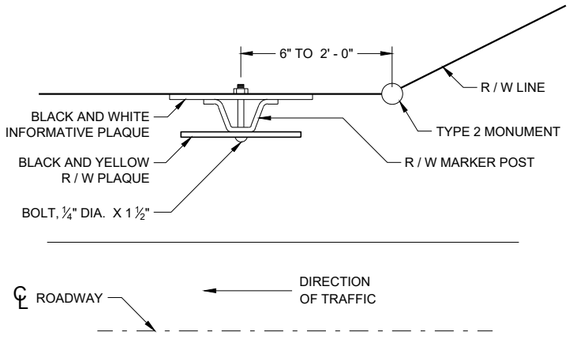
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

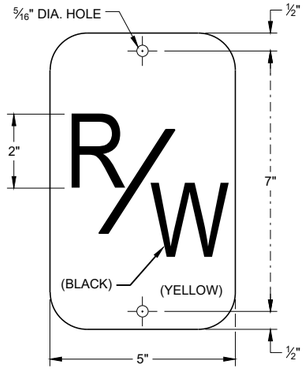
FHWA

6

SDD 14B44 - 04c

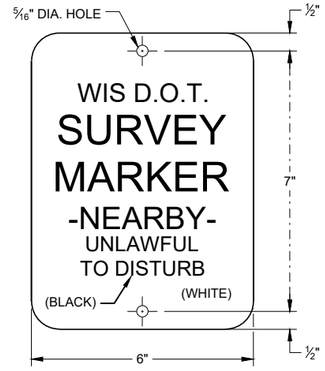


PLAN VIEW
STEEL MARKER POST



R / W PLAQUE

THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



INFORMATIVE PLAQUE

GENERAL NOTES

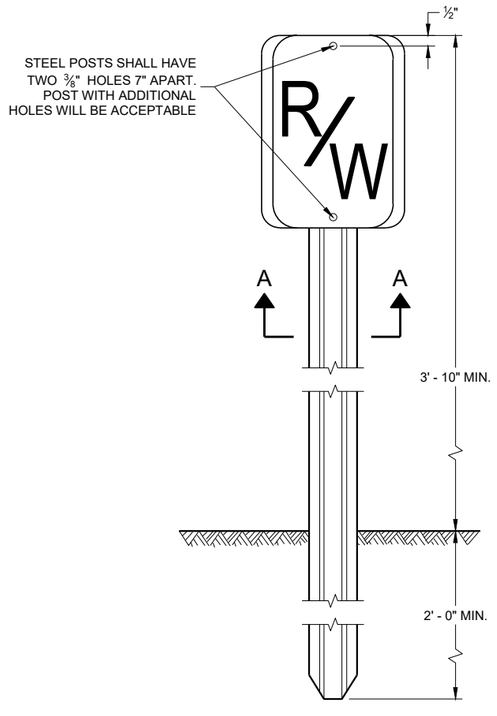
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A STEEL MARKER POST FOR RIGHT -OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

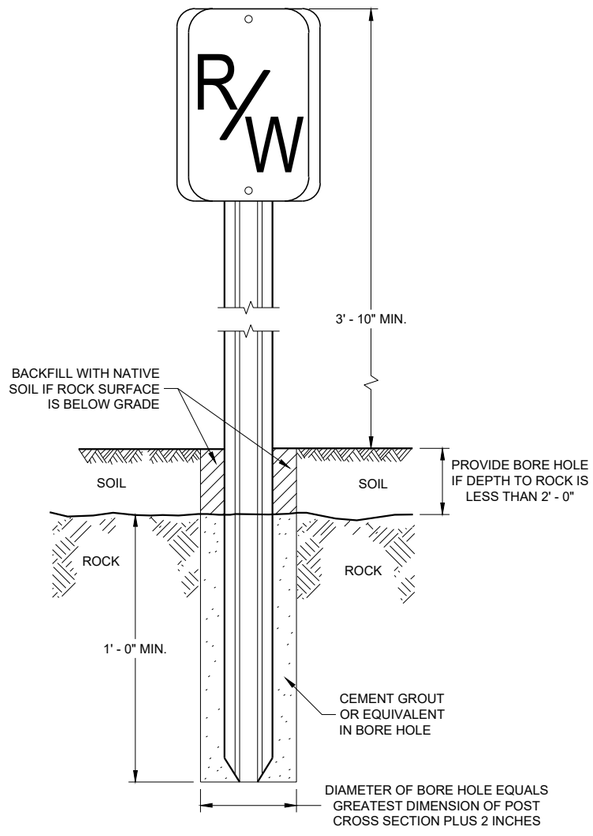
THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFROMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. "R/W" AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

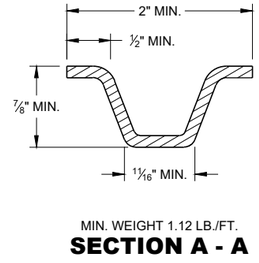
(1) IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3' - 10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR. FILL THE BORE HOLE WITH CEMENT GROUT OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.



FRONT VIEW
STEEL MARKER POST

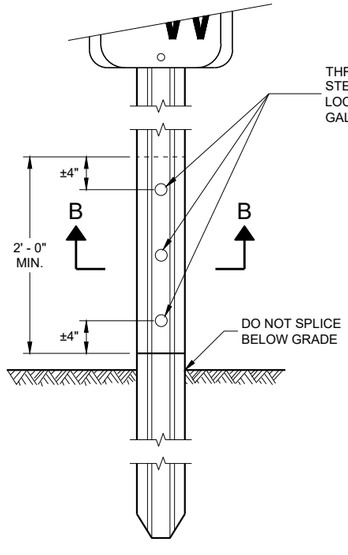


FRONT VIEW
ROCK INSTALLATION (1)

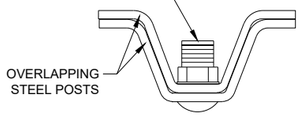


MIN. WEIGHT 1.12 LB./FT.

SECTION A - A



FRONT VIEW
SPLICE DETAIL



SECTION B - B

MARKER POST
FOR RIGHT - OF - WAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/18/2016
DATE
/S/ Ray Kumapayi
CHIEF SURVEYING AND MA
ENGINEER

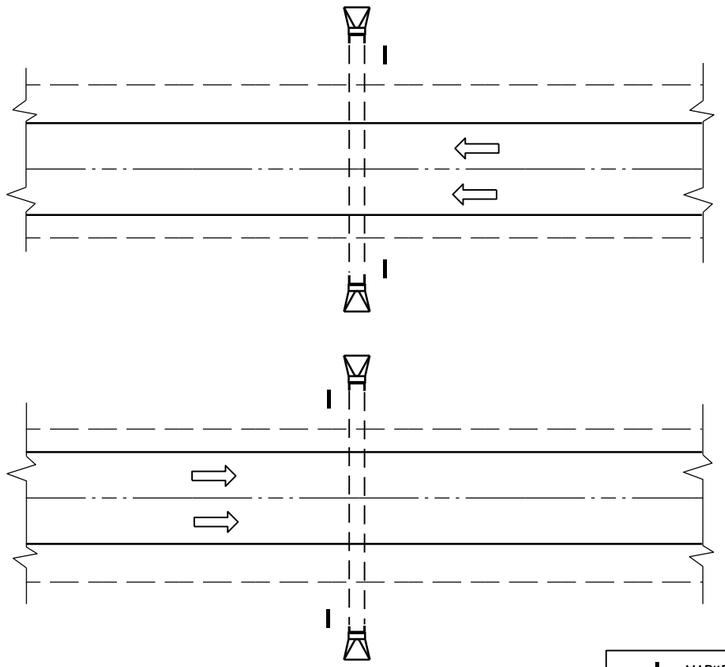
FHWA

6

SDD 15A01 - 13a

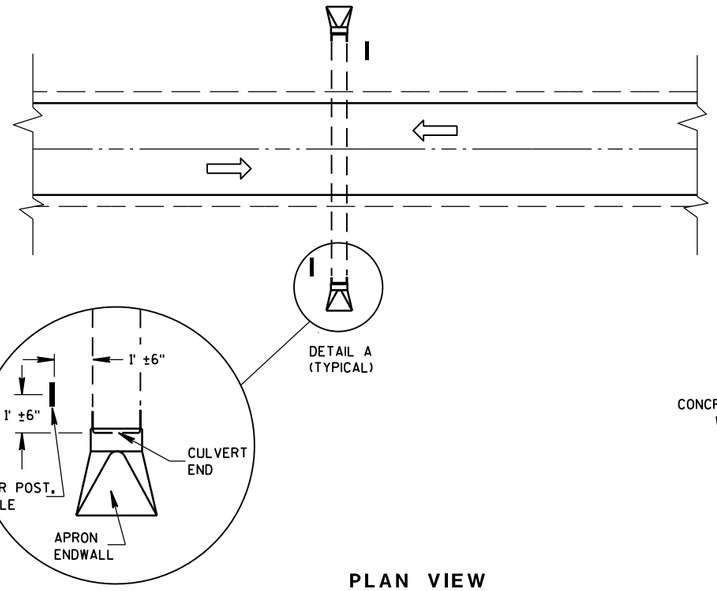
6

SDD15A01 - 13a



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

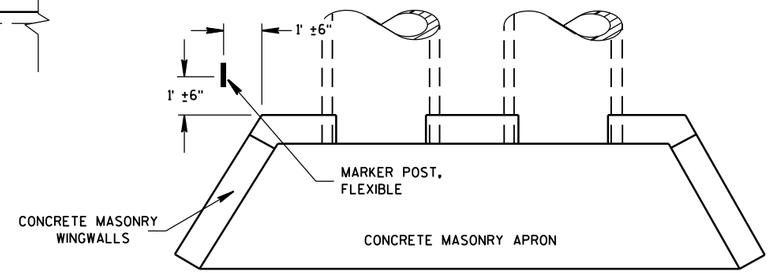
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

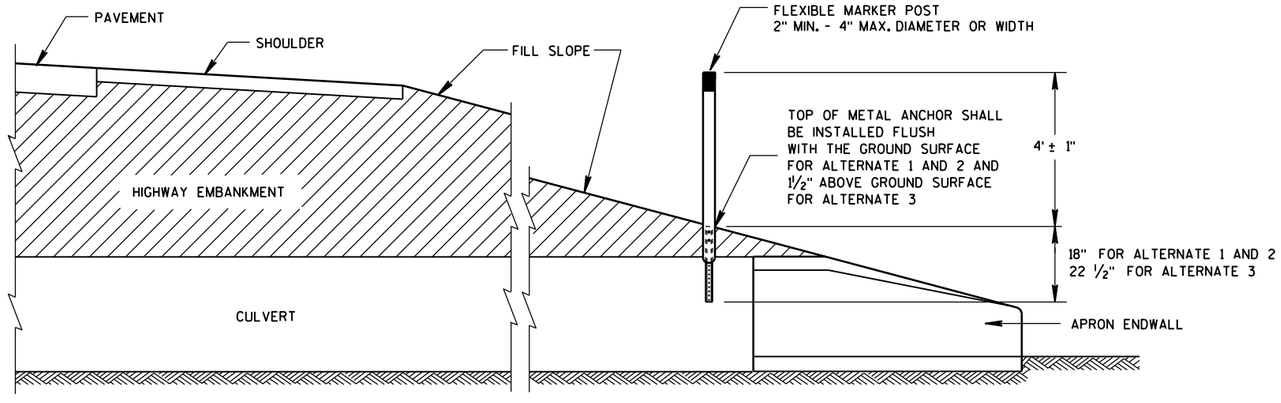
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

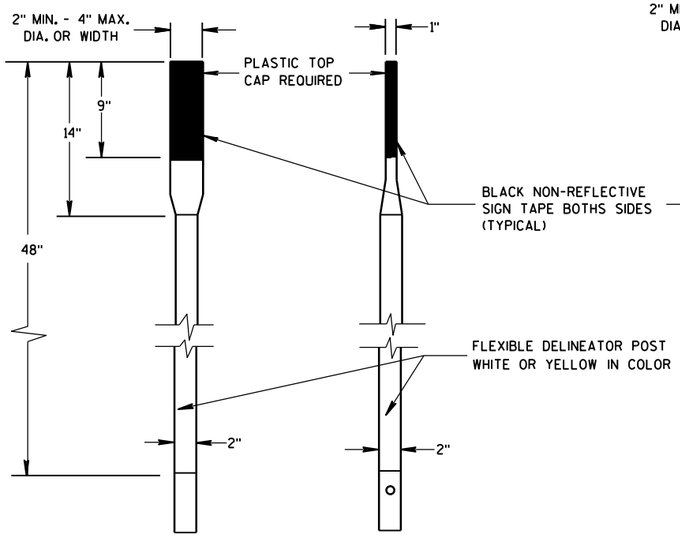
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

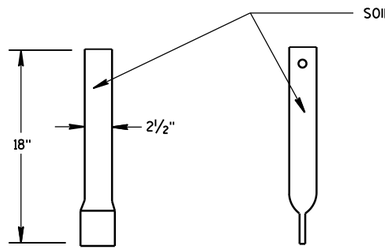
6

S.D.D. 15 A 3-2a

6

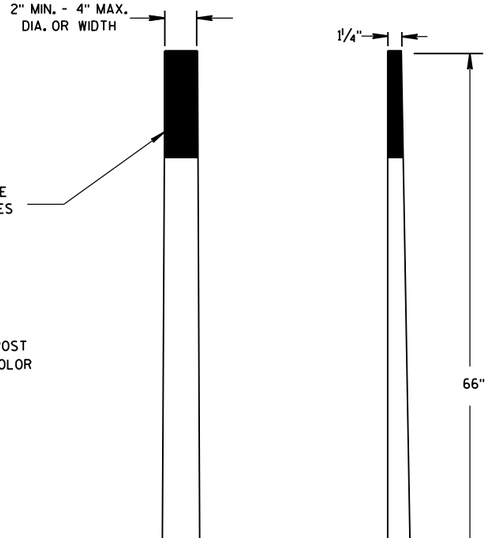
S.D.D. 15 A 3-2a





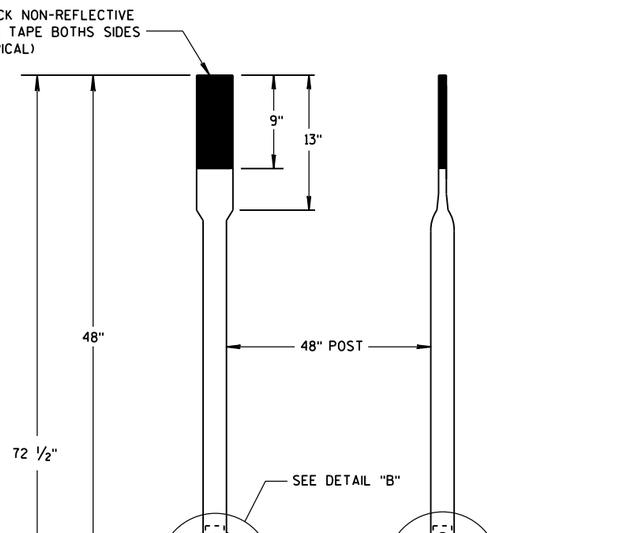
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

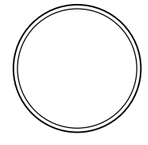
ALTERNATE 2



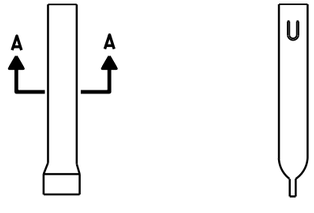
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

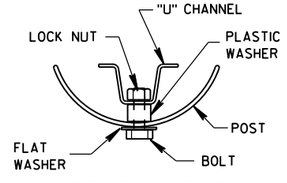


SECTION A-A

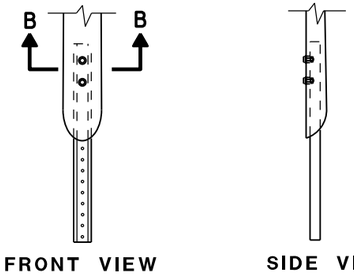


FRONT VIEW SIDE VIEW

ALTERNATE 1

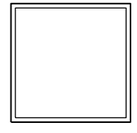


SECTION B-B

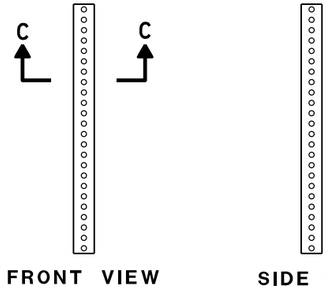


FRONT VIEW SIDE VIEW

ALTERNATE 2



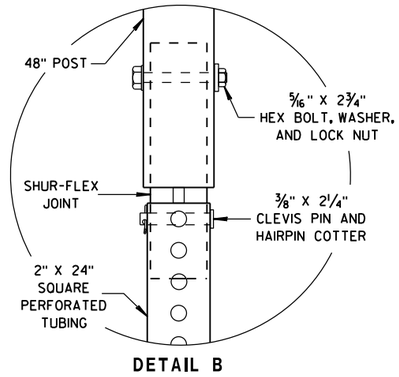
SECTION C-C



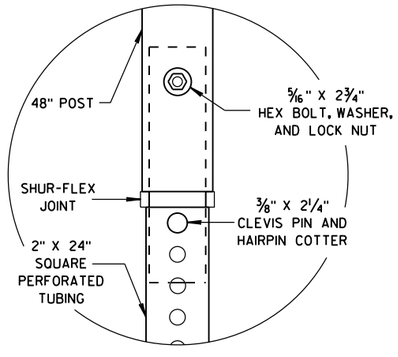
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

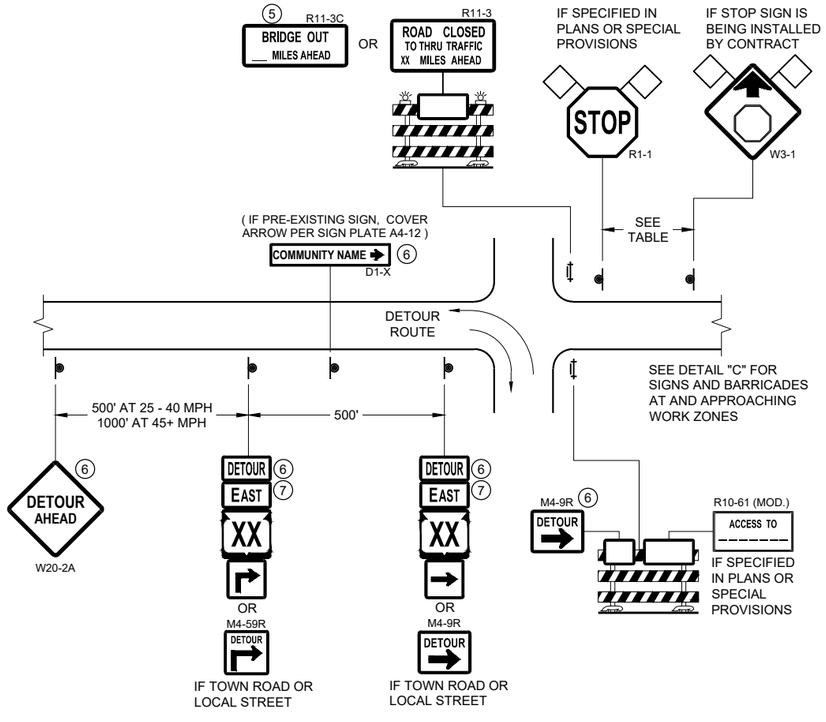
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

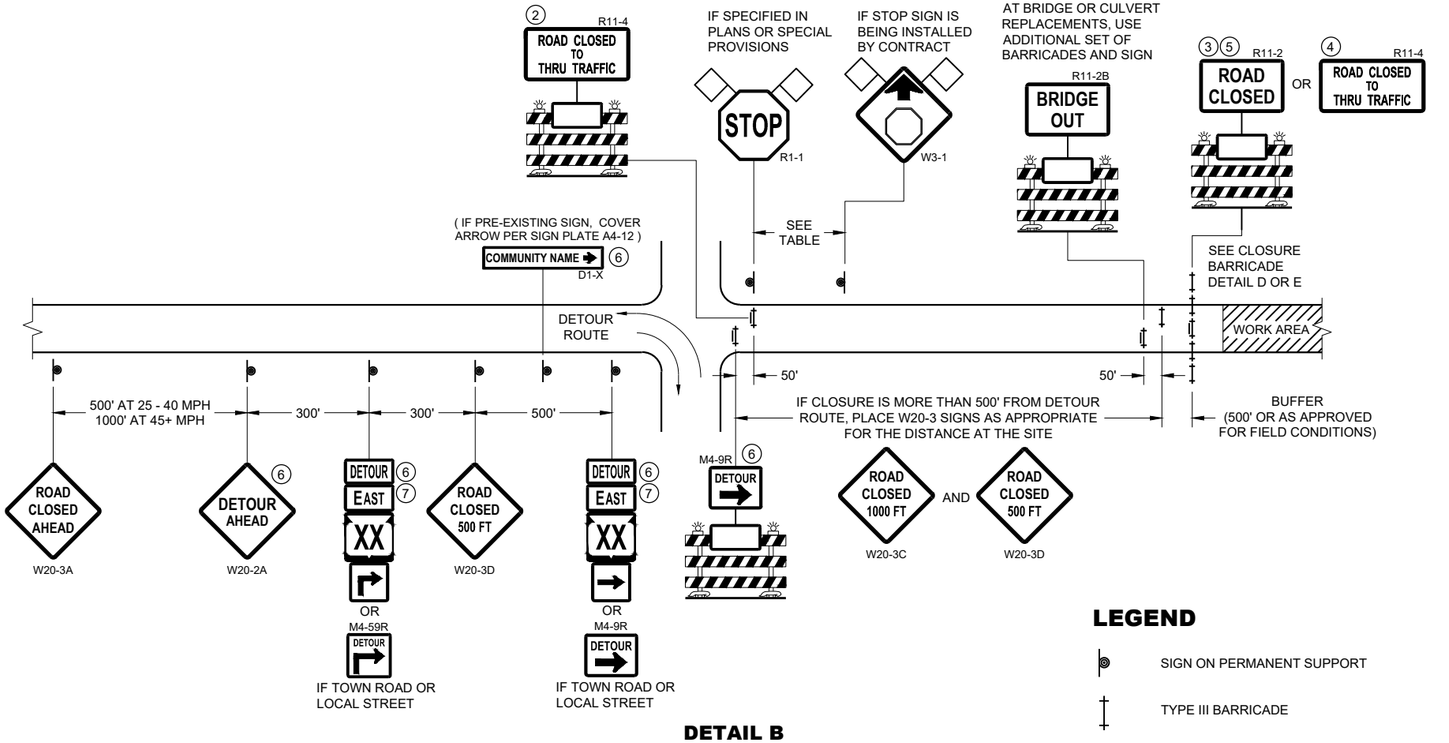
6

S.D.D. 15 A 3-2b



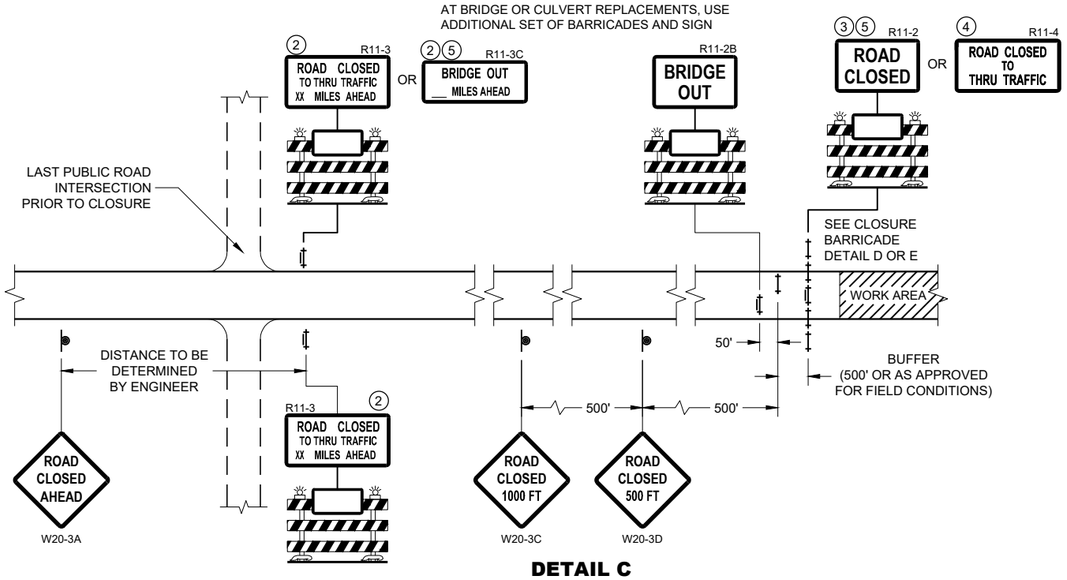
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

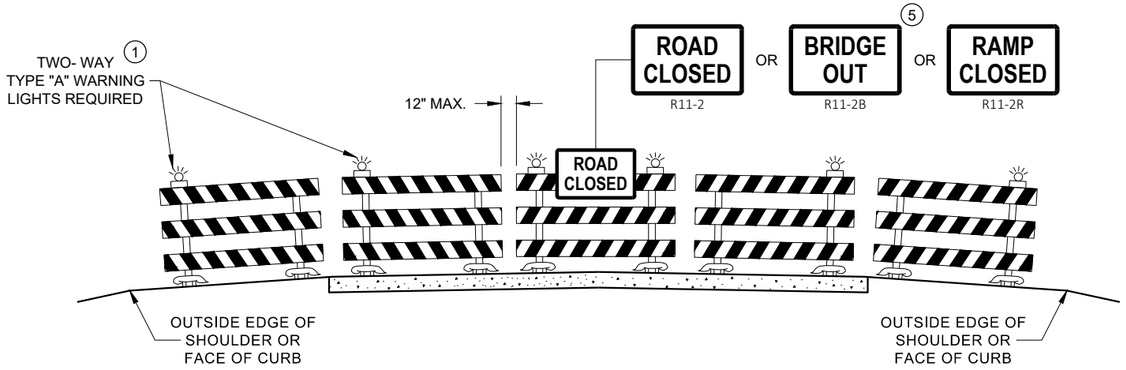
FHWA

6

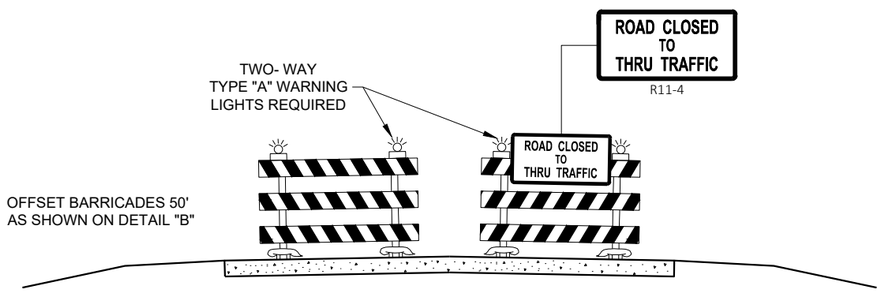
SDD 15C02 - 09a

6

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

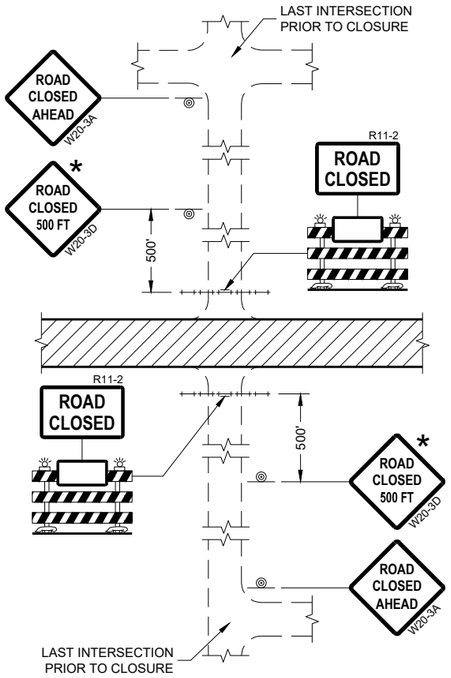
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

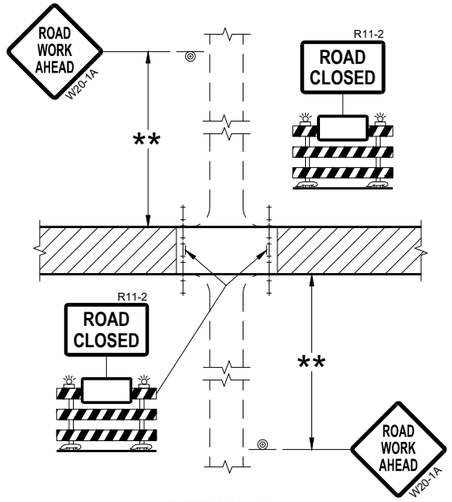
SDD 15C02 - 09b

6

SDD 15C02 - 09b



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

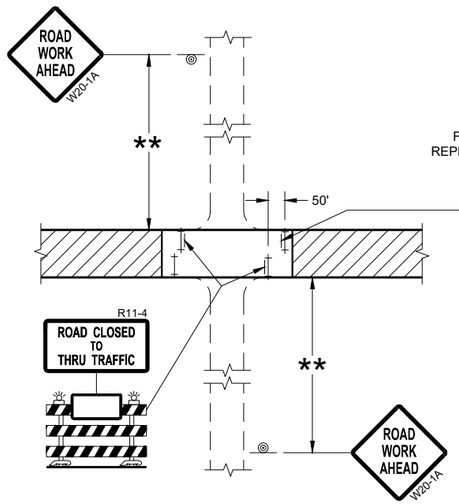
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

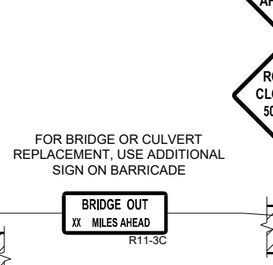
THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

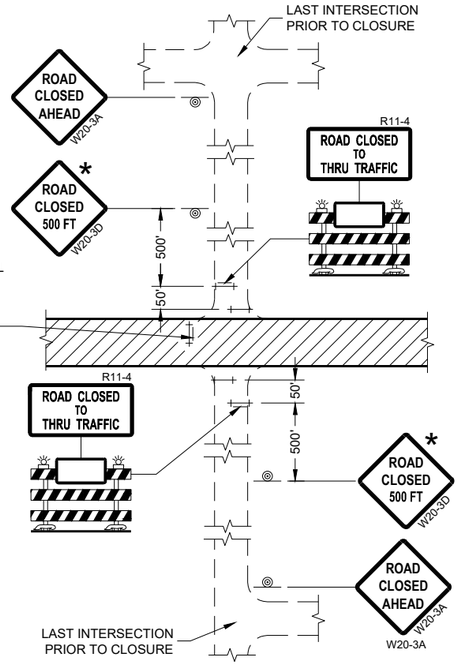
* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.





DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

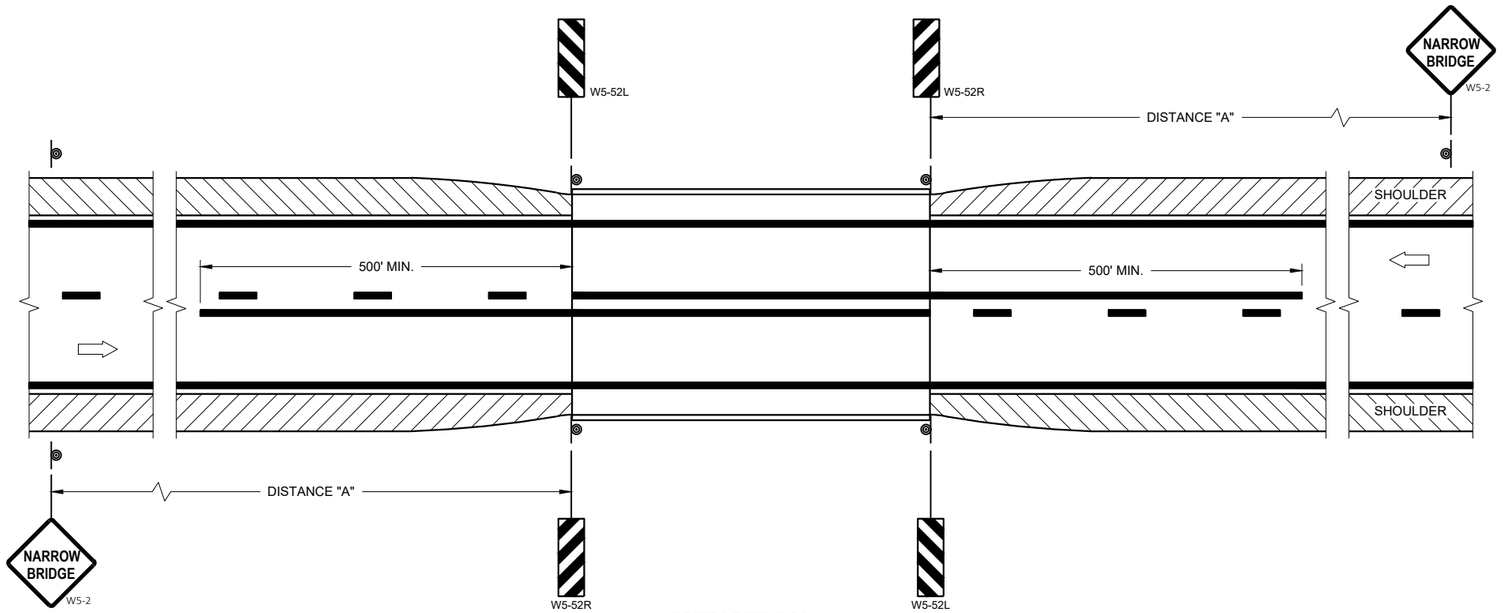
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

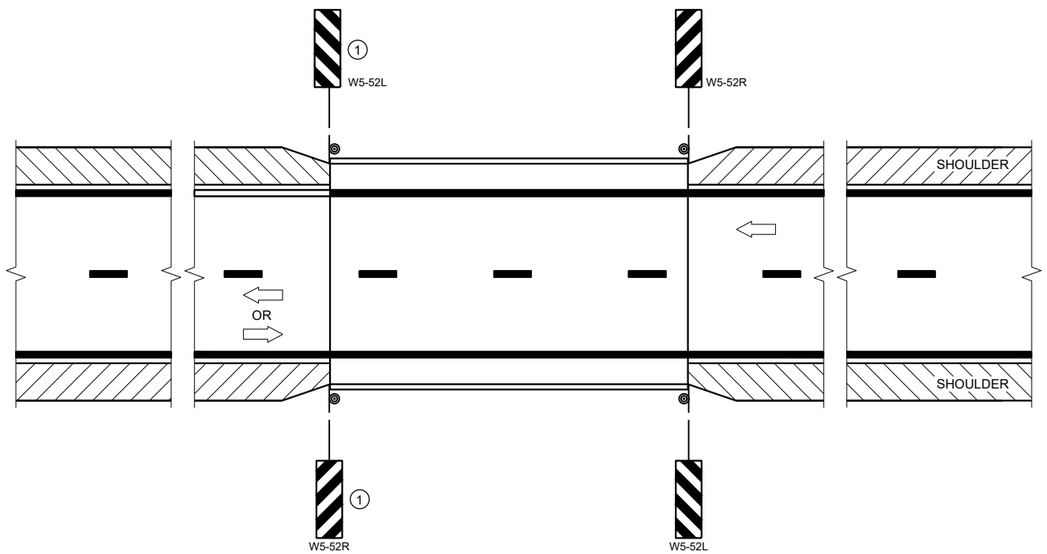
6

SDD 15C03 - 05



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER
FHWA

6
SDD 15C06-12

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

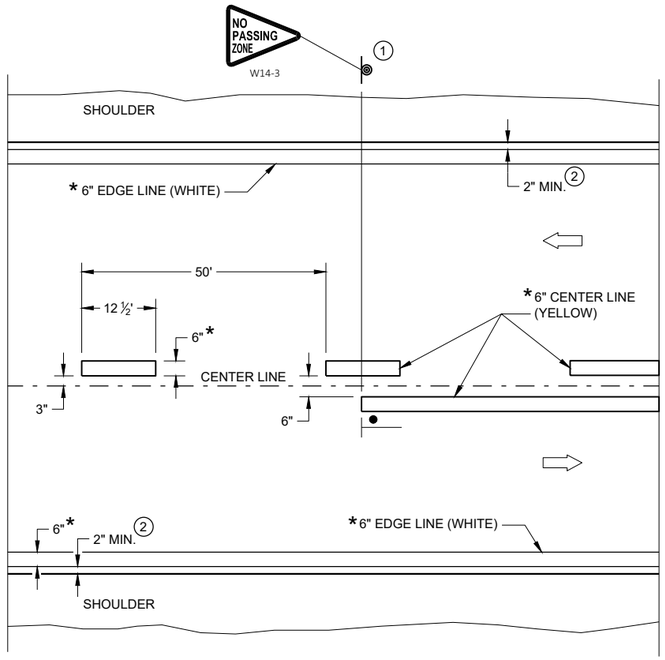
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

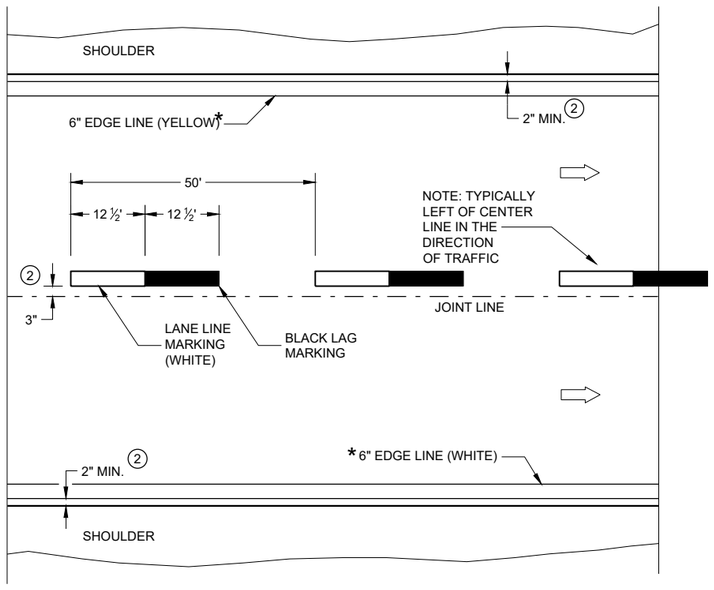
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER
FHWA

6

SDD 15C08-23a

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

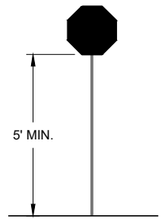
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



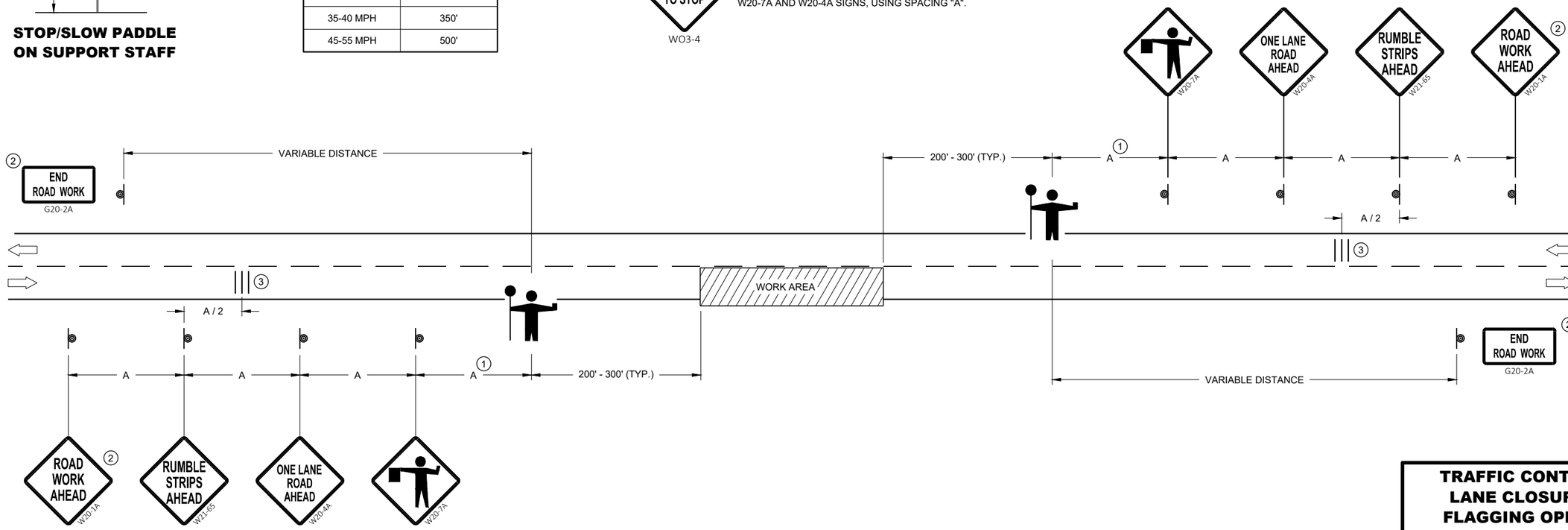
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C12 - 09a

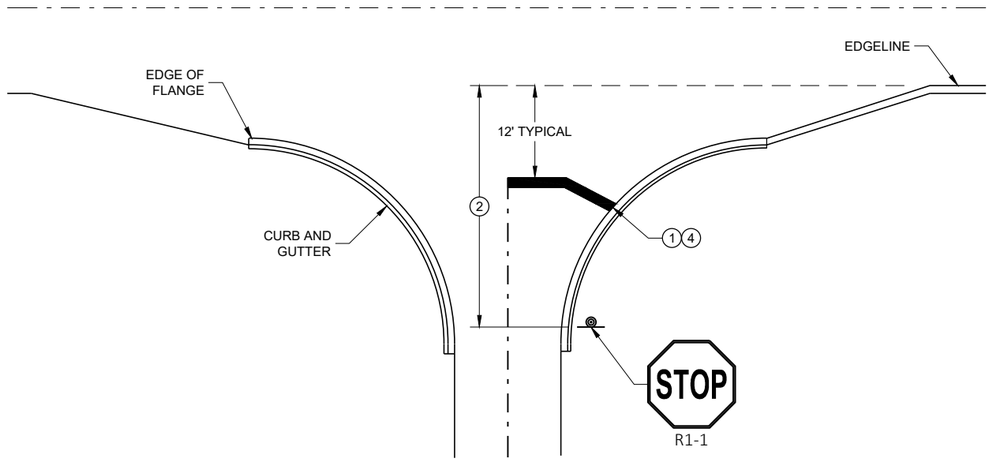
6

SDD 15C12 - 09a

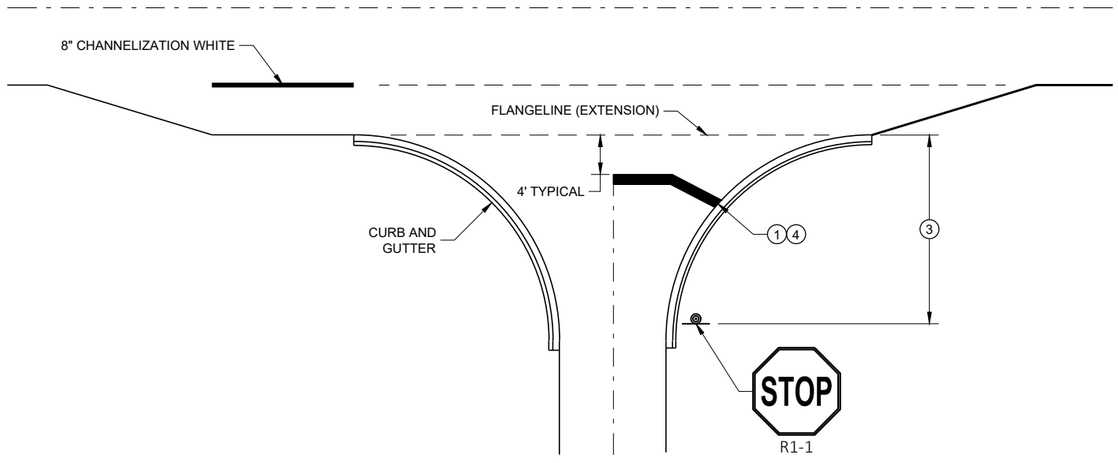
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

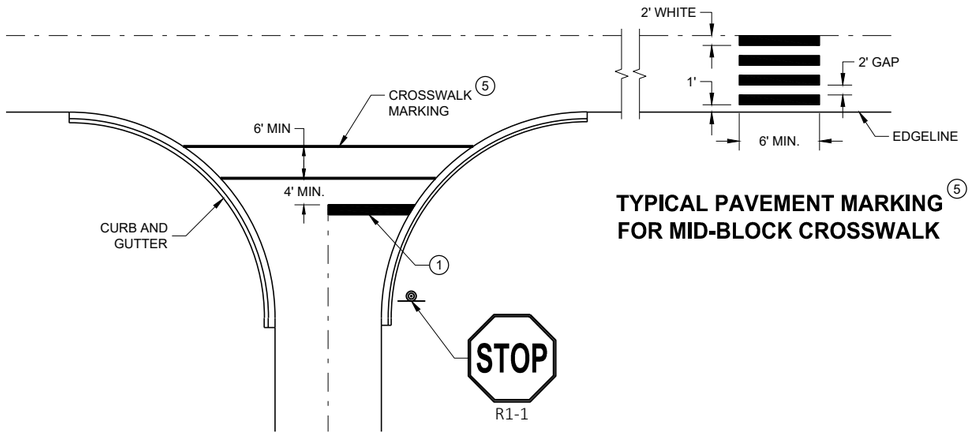
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

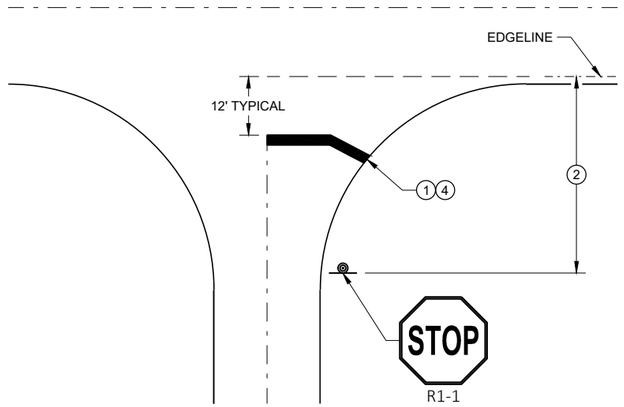


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

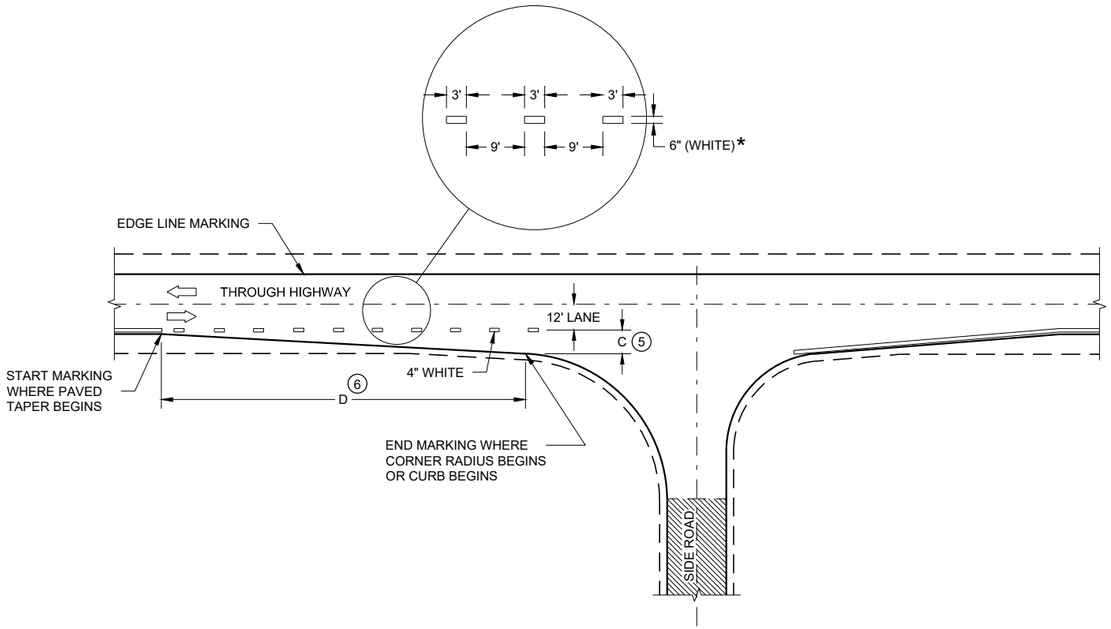
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

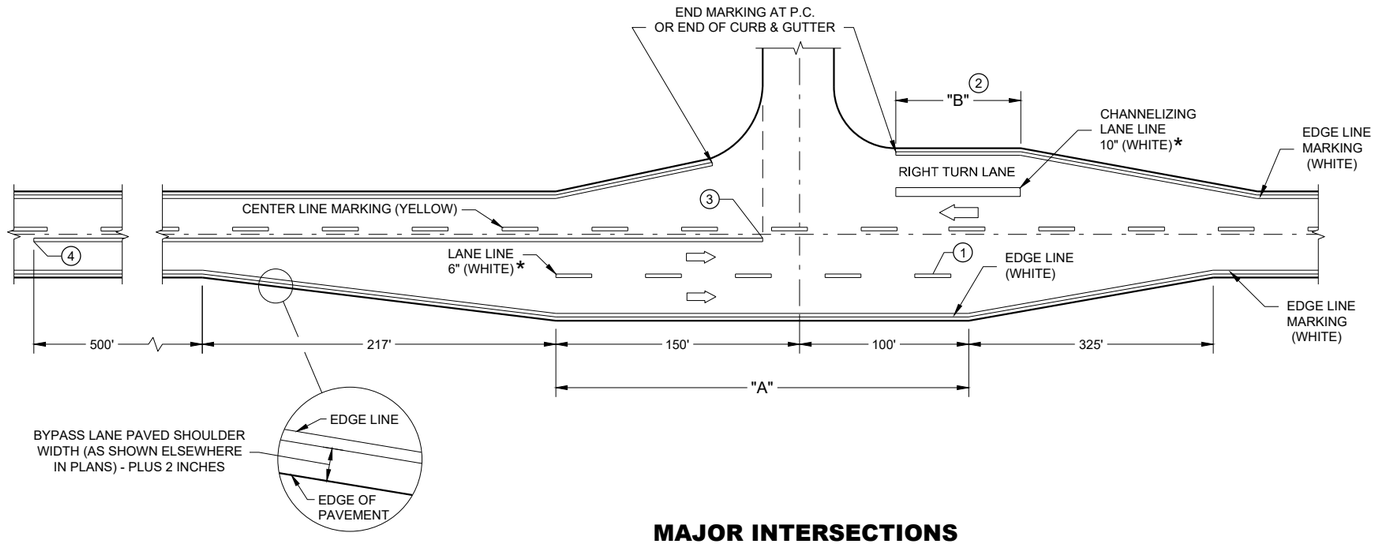
FHWA

6

SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

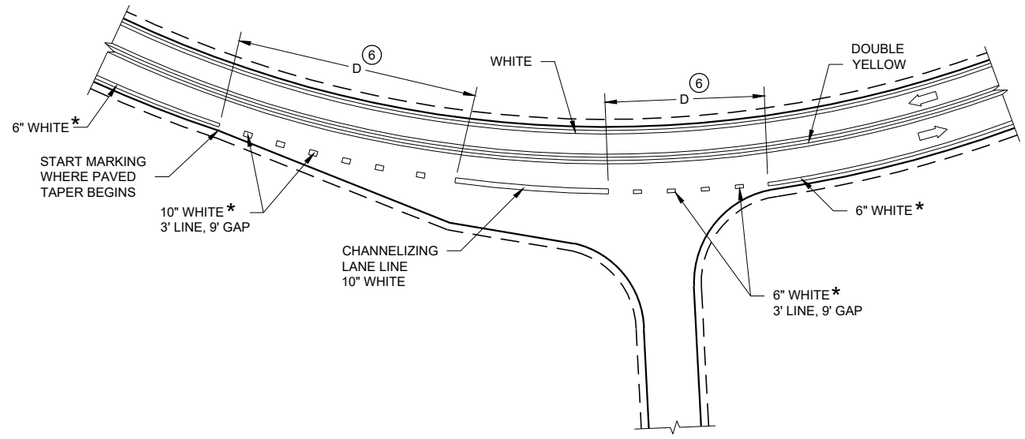
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL

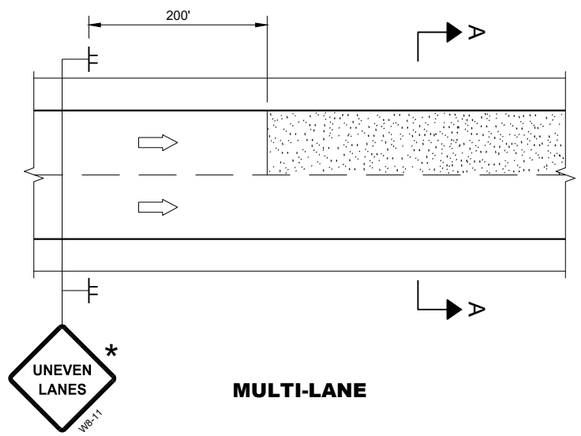


INTERSECTION ON OUTSIDE OF CURVE

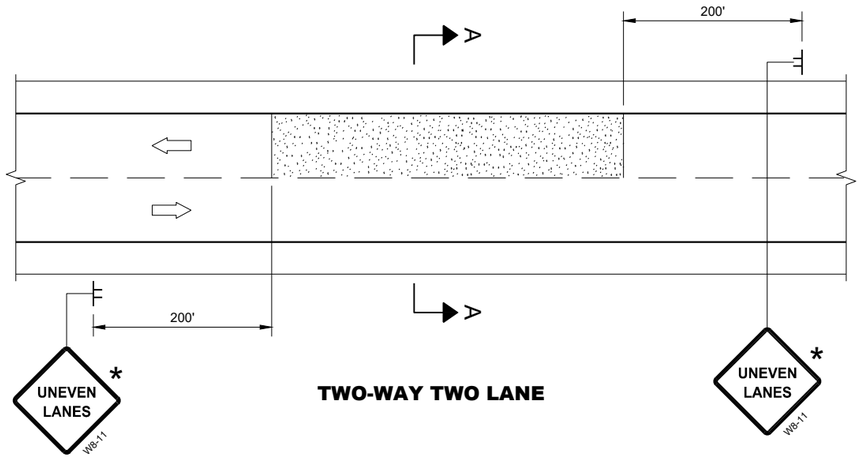
PAVEMENT MARKING (INTERSECTIONS)

SDD 15C35-06a

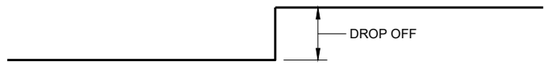
6



MULTI-LANE

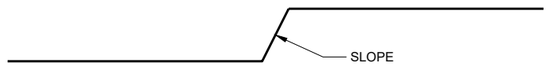


TWO-WAY TWO LANE

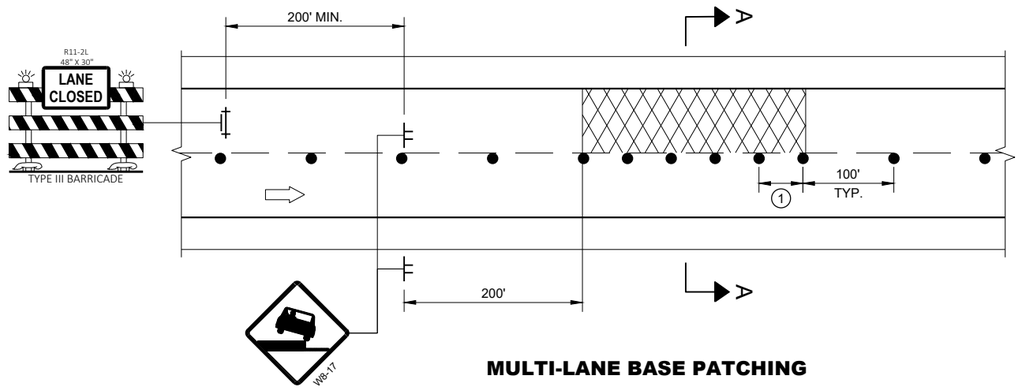


SECTION A - A

OR

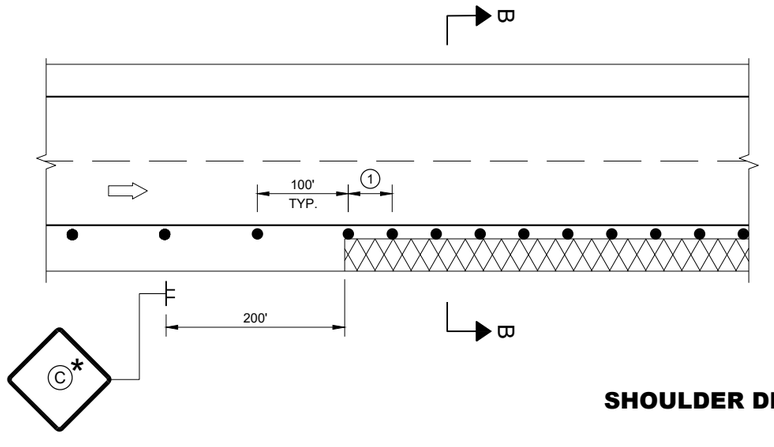


SECTION A - A

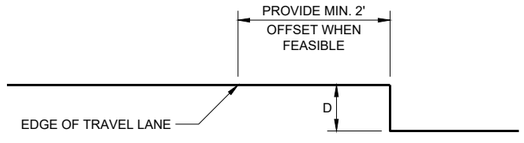


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

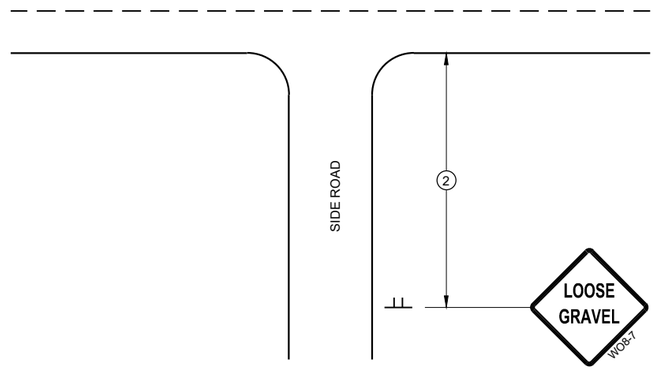
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

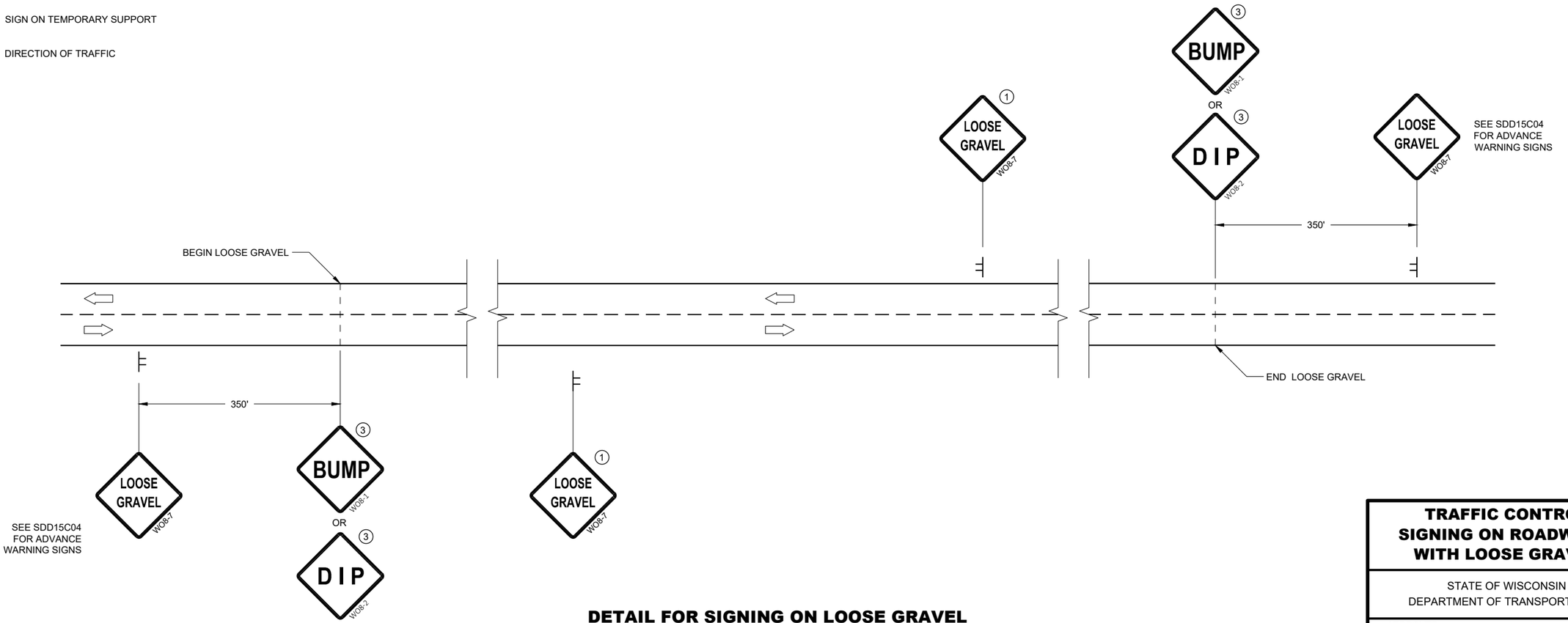
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

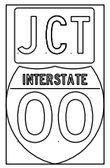
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

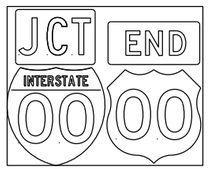
6

SDD 15D45 - 03

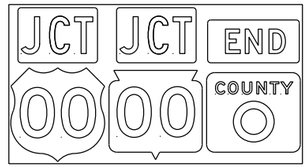
TYPICAL ASSEMBLIES



J1-1



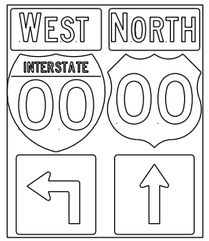
J1-2



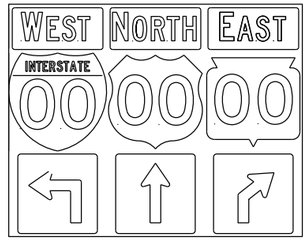
J1-3

JR1-1

J2-1

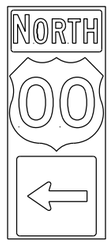


J2-2

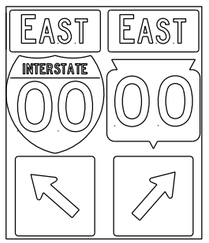


J2-3

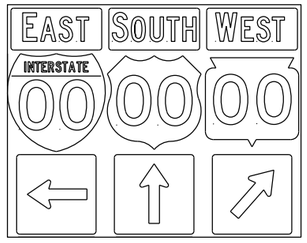
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



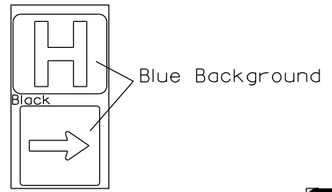
J3-1



J3-2

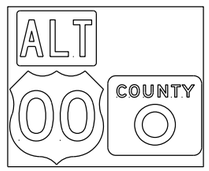


J3-3

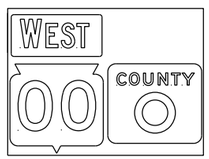


JH-1

J4-1

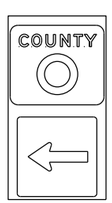


J4-2



J4-2

J12-1



J13-1

J32-1

J33-1

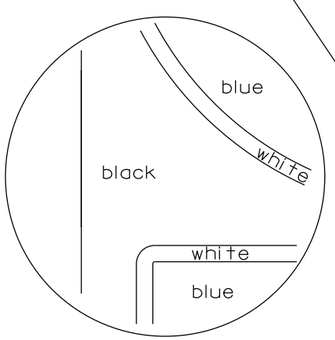
J22-1

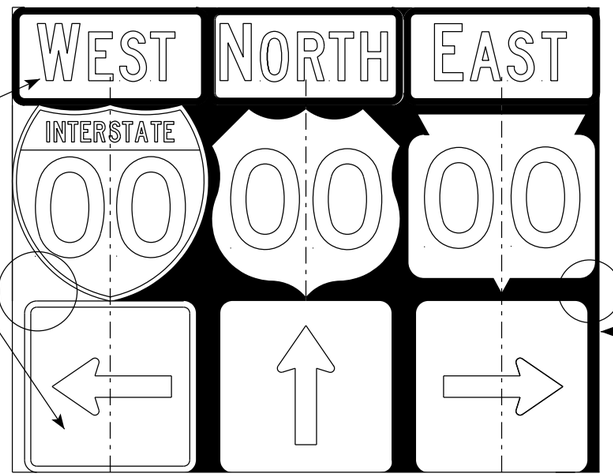
J23-1

JR13-1

JR23-1

JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 139 E

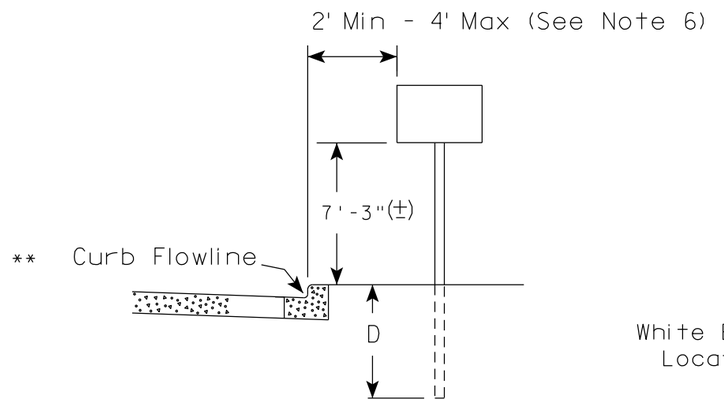
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

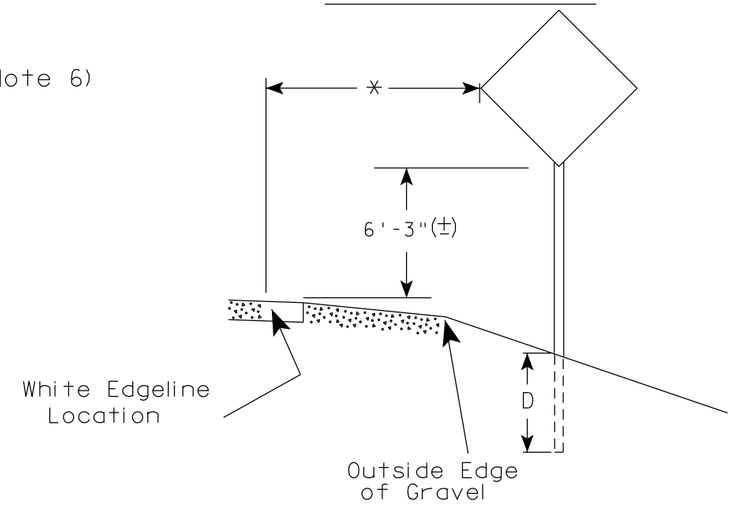
7

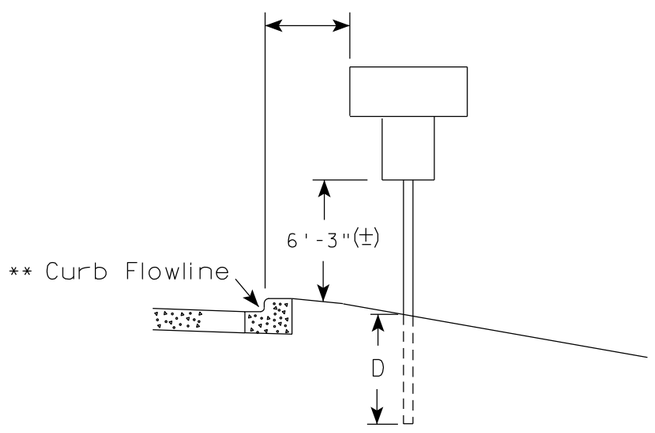
7

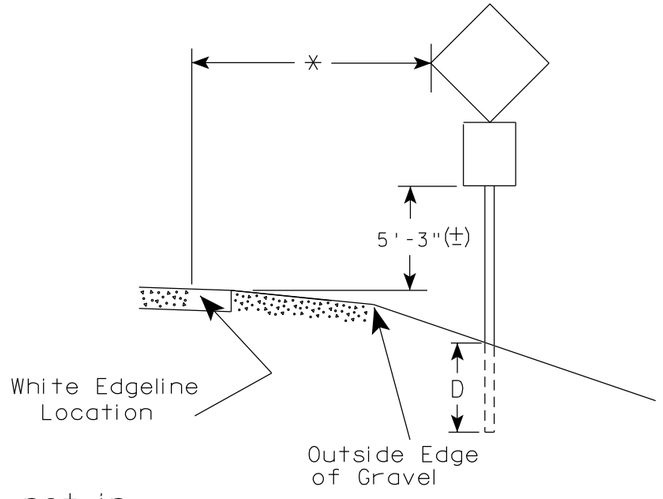
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

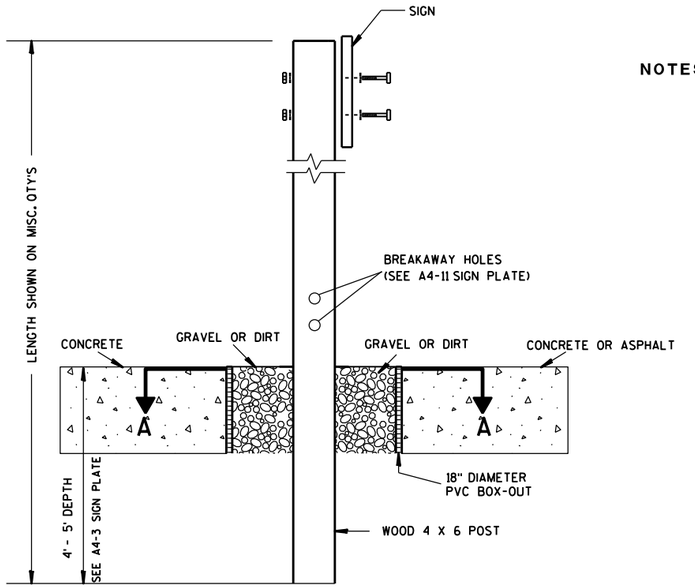
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

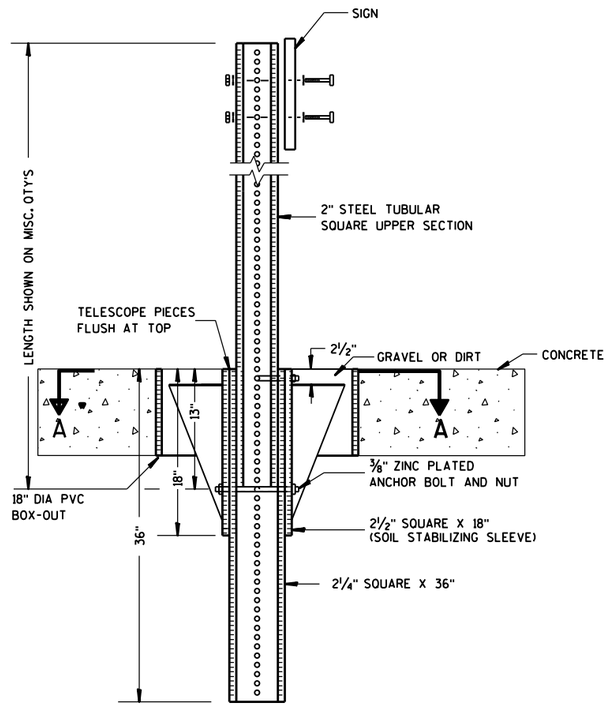
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 140	E



ELEVATION VIEW

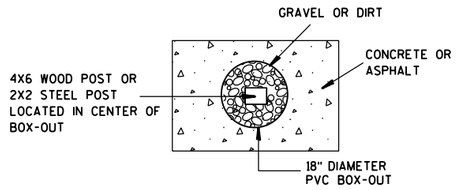
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

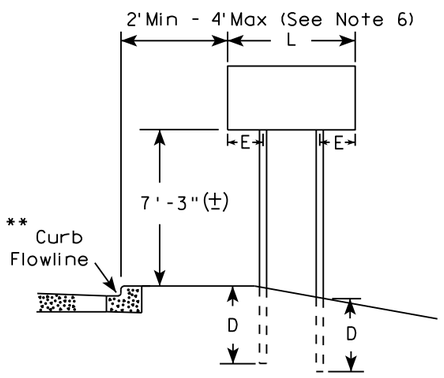
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

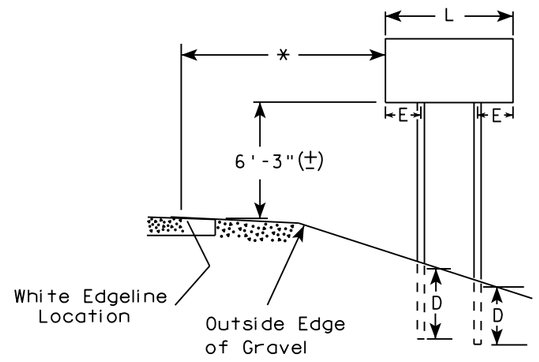
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

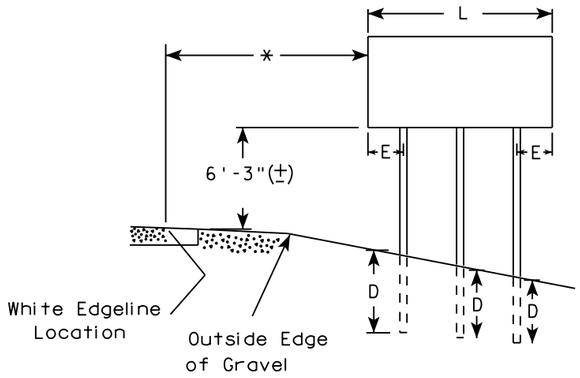
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

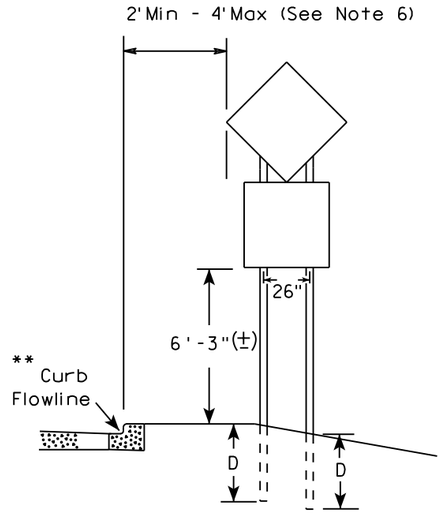
URBAN AREA



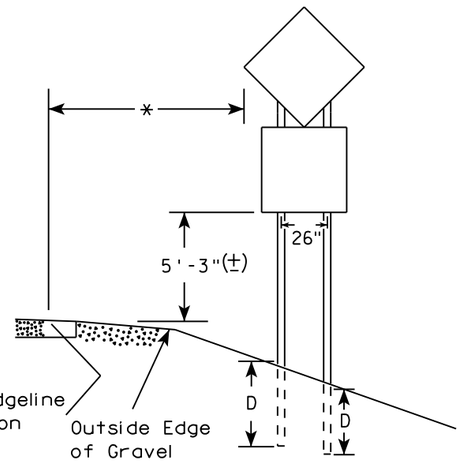
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

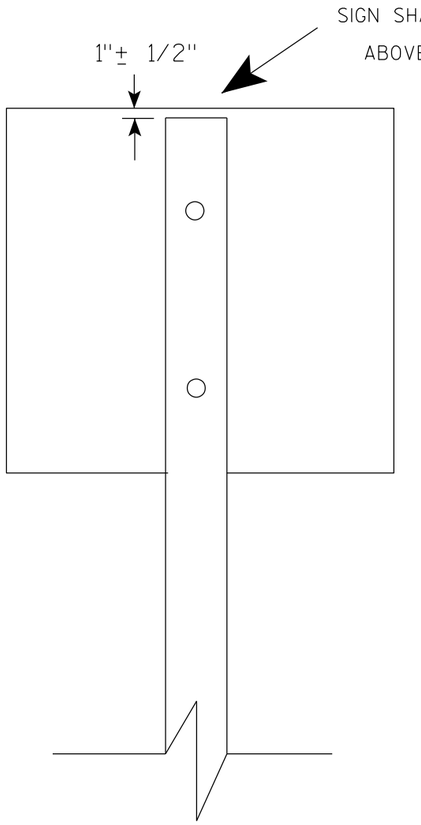
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

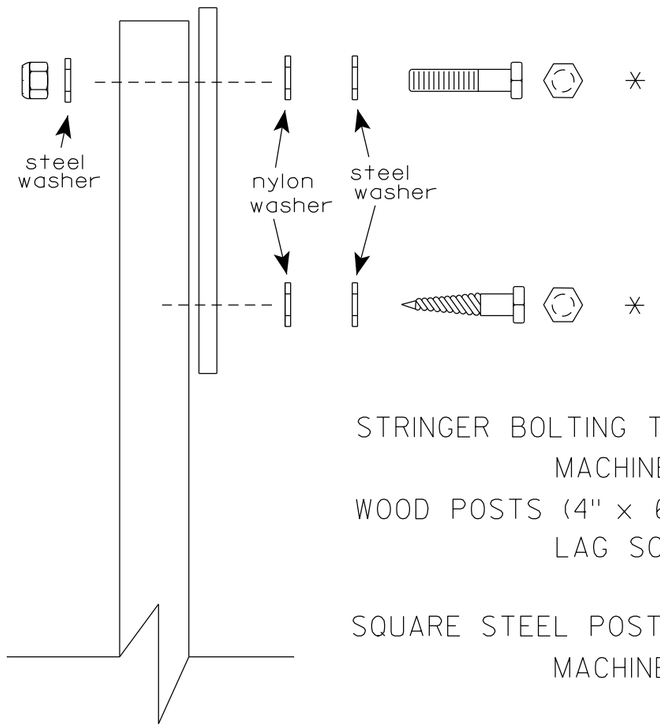
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

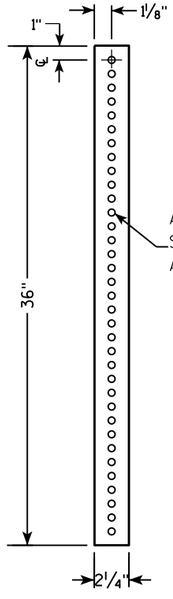
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

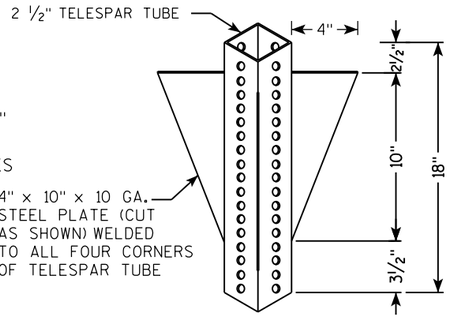
SHEET NO: 143 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

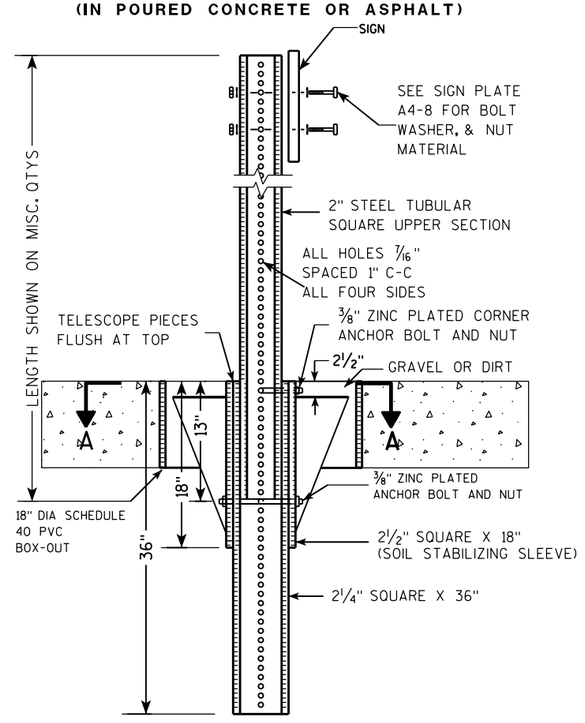
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



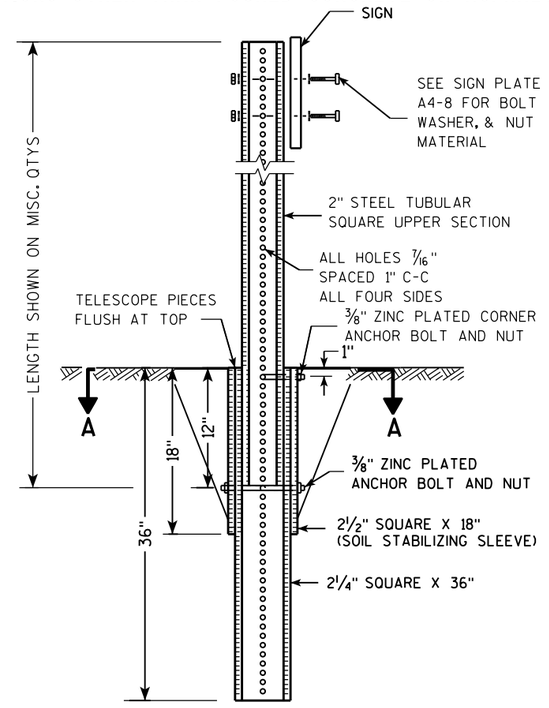
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

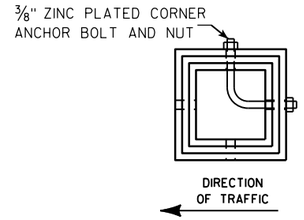


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

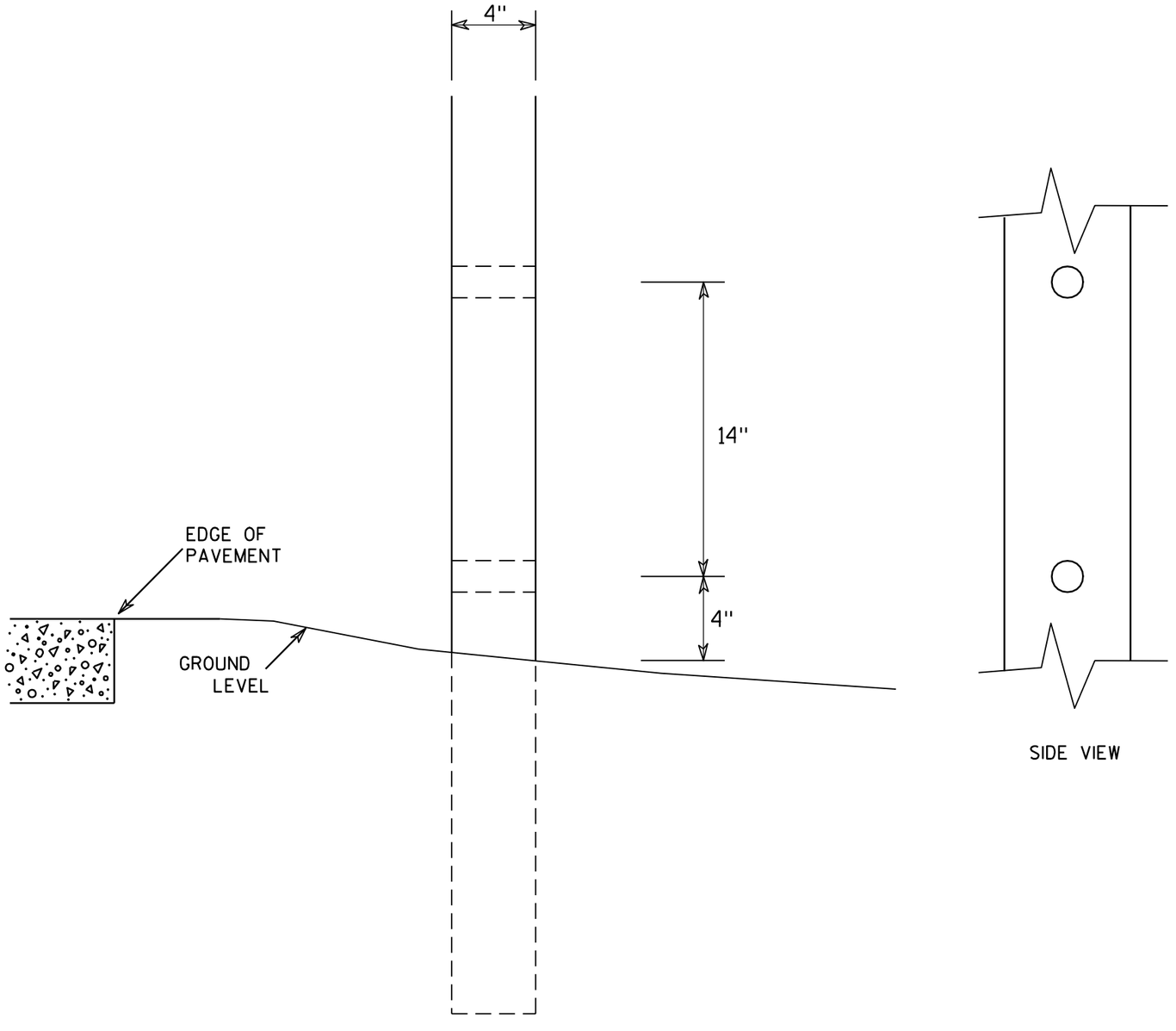
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 144 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

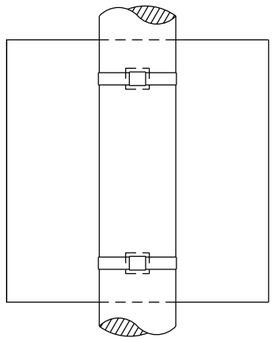
APPROVED Chester J Spang
for State Traffic Engineer

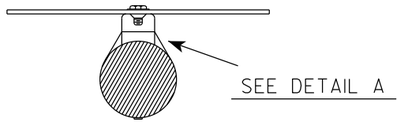
DATE 3/27/97 PLATE NO. A4-11.2

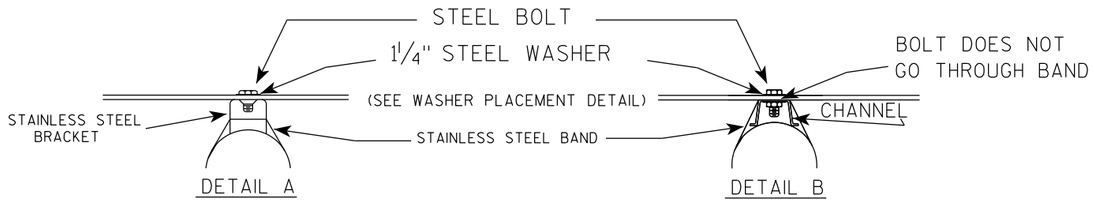
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	E

BANDING

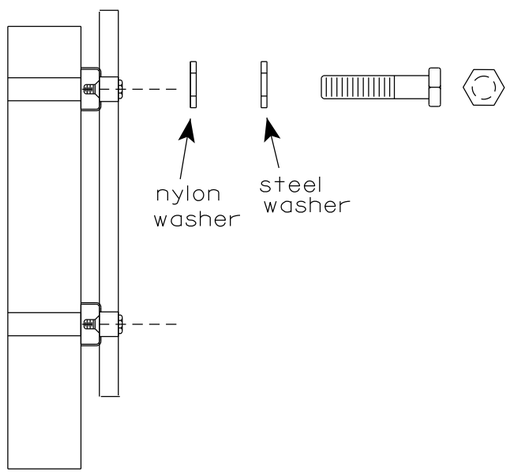
SINGLE SIGN







WASHER PLACEMENT

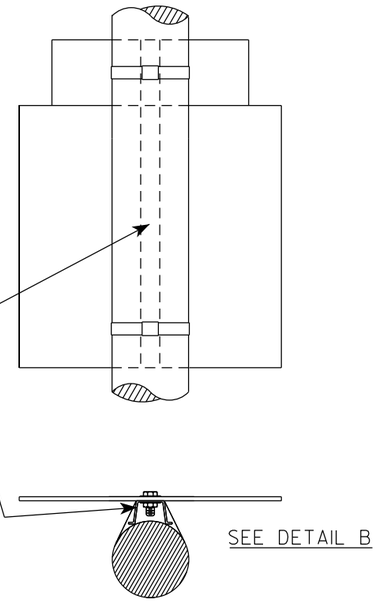


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

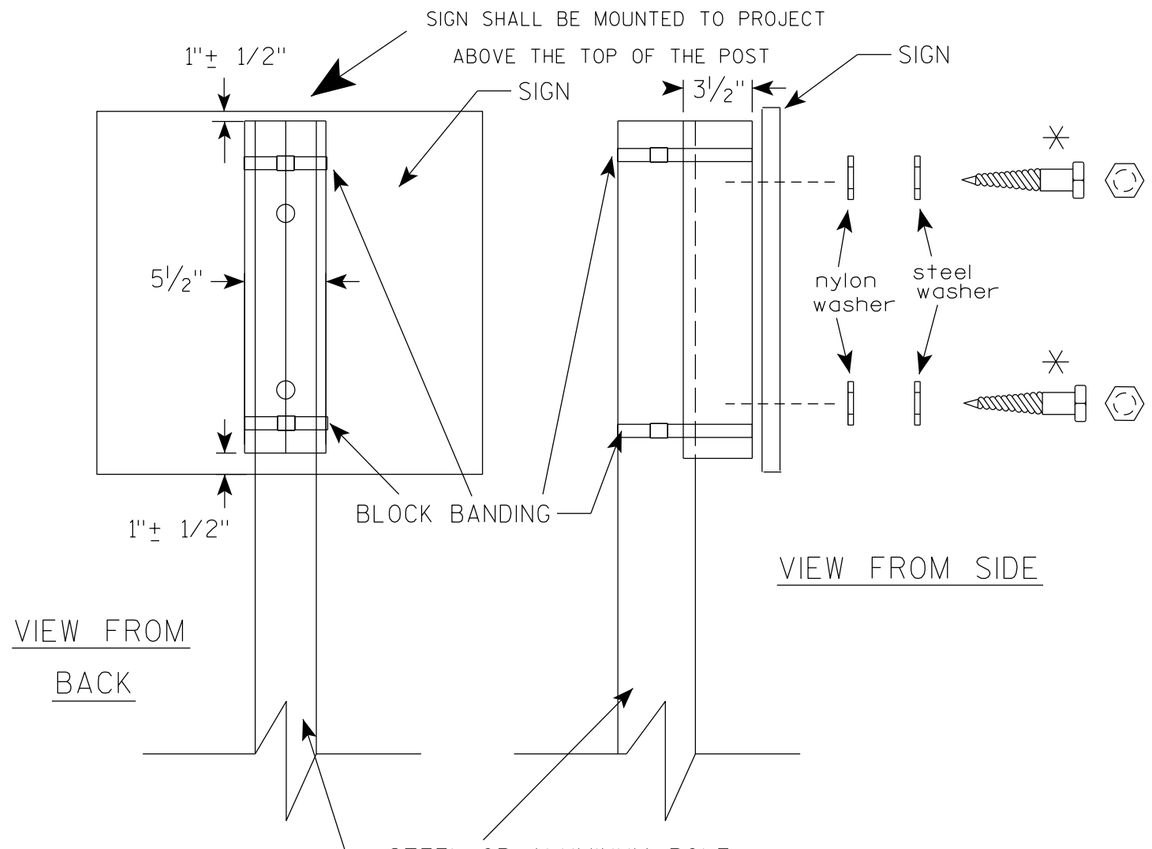
DATE 6/10/19 PLATE NO. A5-9.4

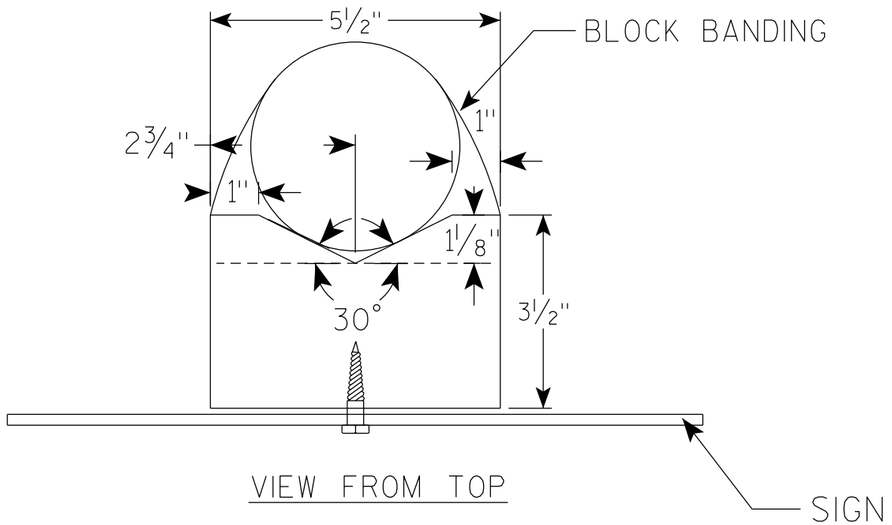
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 146	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

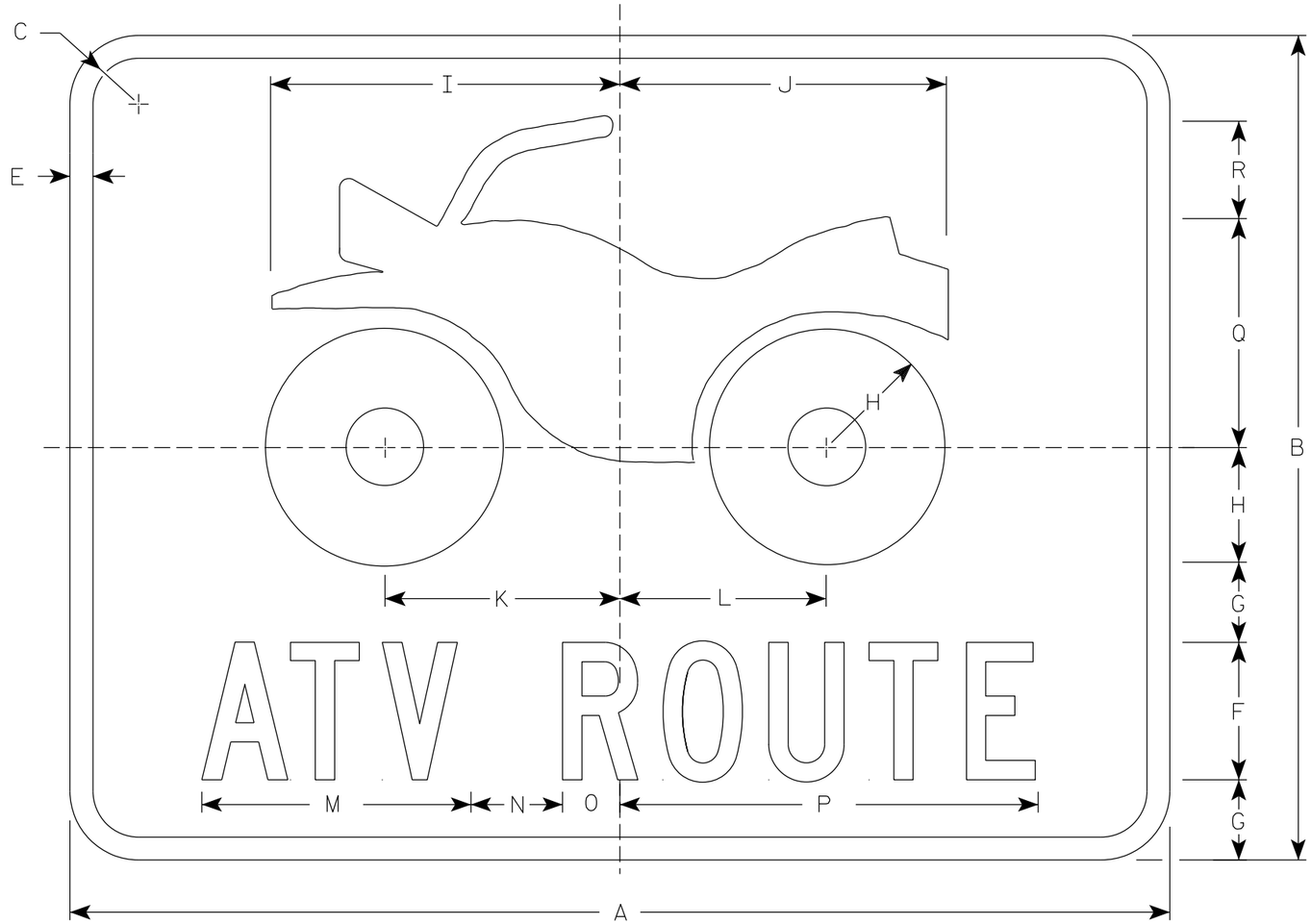
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 147 E



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C

D11-10

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8		1/2	3	1 3/4	2 1/2	7 5/8	7 1/8	5 1/8	5 1/2	5 7/8	2	1 1/4	9 1/8	5	2 1/8									3.0
3																											
4																											
5																											

STANDARD SIGN
D11-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

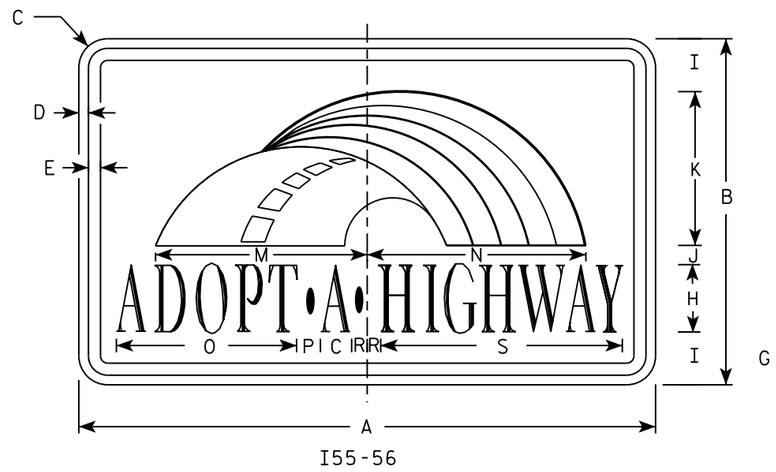
DATE 3/25/19 PLATE NO. D11-10.5

PROJECT NO:

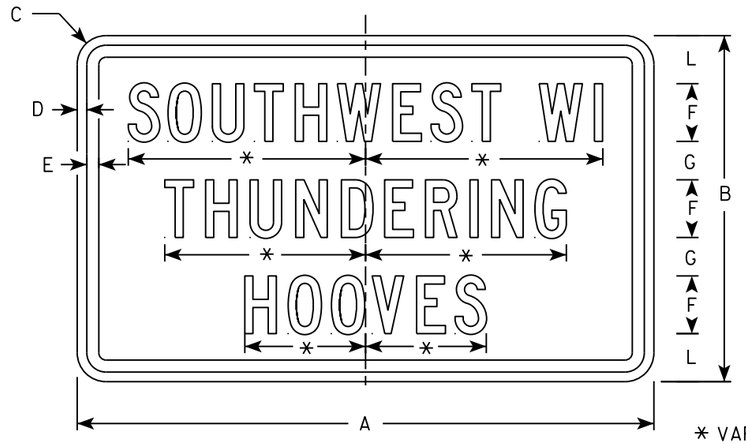
SHEET NO: 148 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\D1110.DGN PLOT DATE : 25-MAR-2019 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42



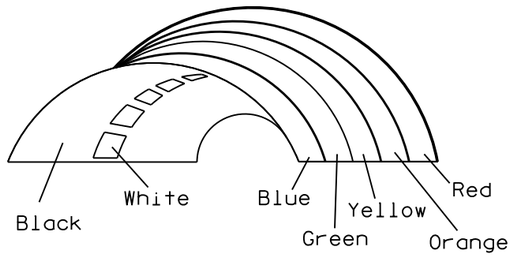
I55-56



I55-56P

* VARIES

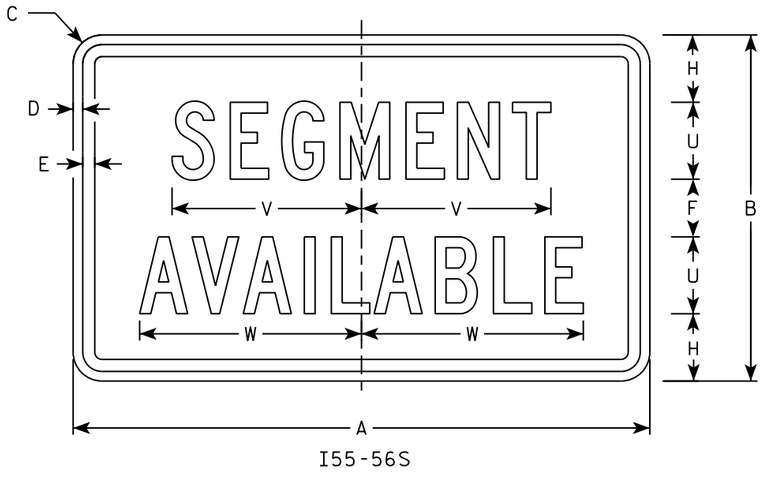
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
   Adopt a Highway - Red
   All other Text - Blue
5. Adopt a Highway - Dutch 8011L
   All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



I55-56S

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

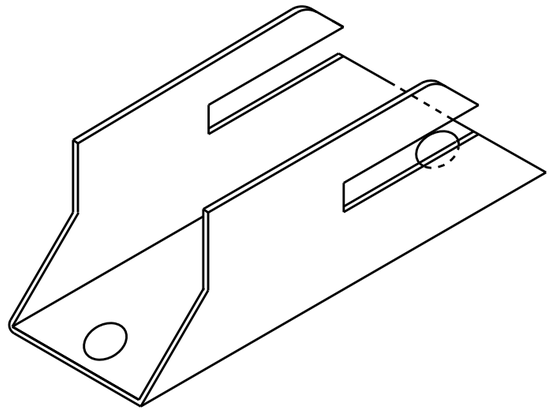
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

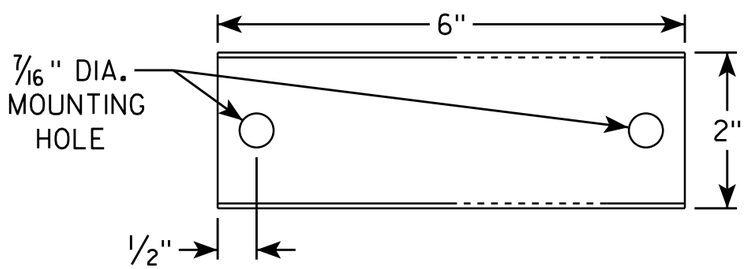
DATE 2/20/18 PLATE NO. I55-56.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 149 | E

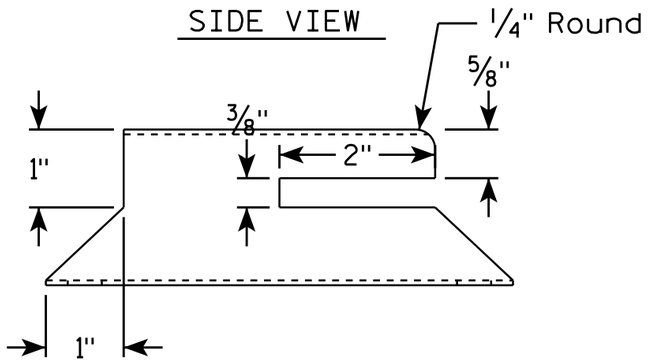
ISOMETRIC VIEW



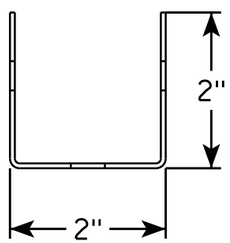
TOP VIEW



SIDE VIEW



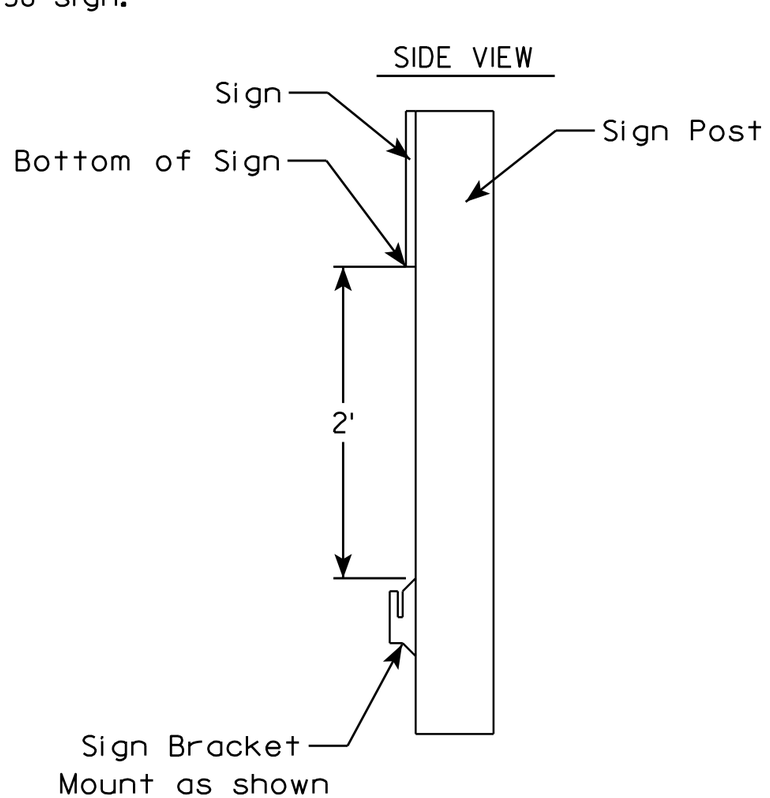
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



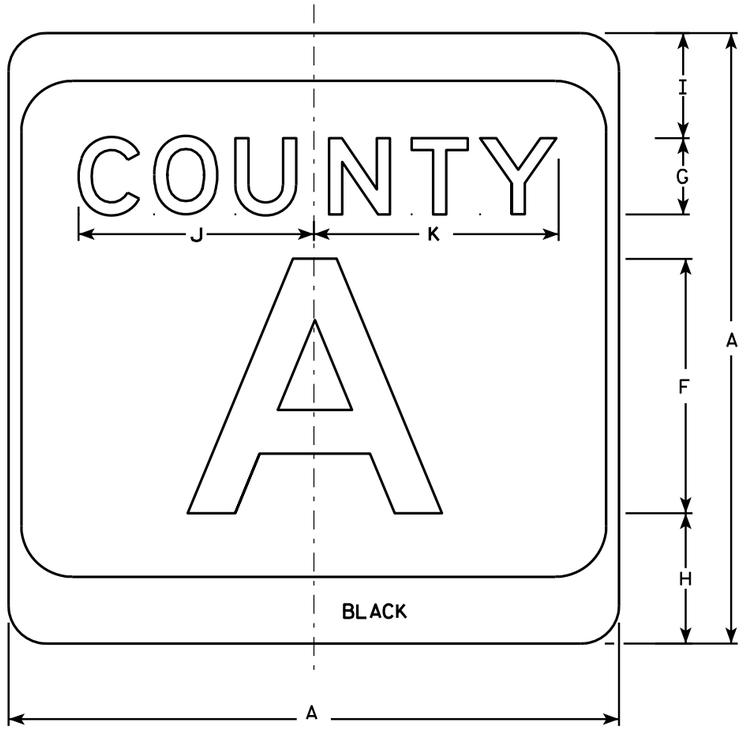
ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

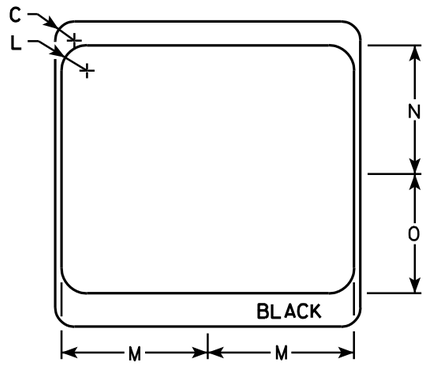
APPROVED Matthew R Rauch
for State Traffic Engineer

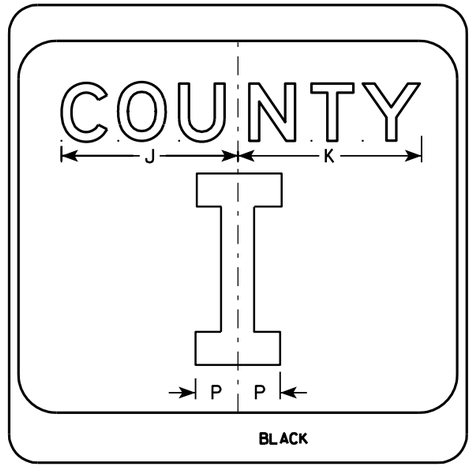
DATE 4/26/16 PLATE I55-56B.2

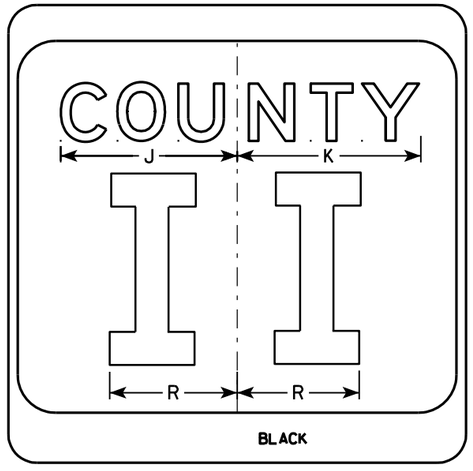
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

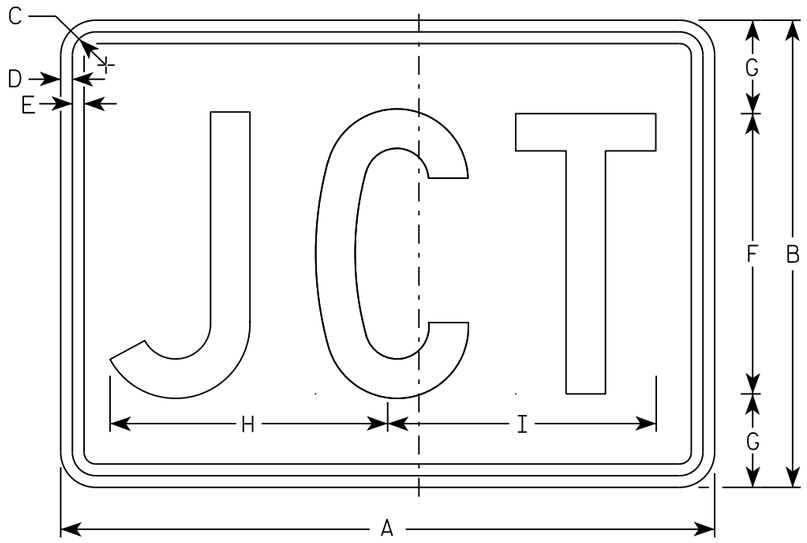
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

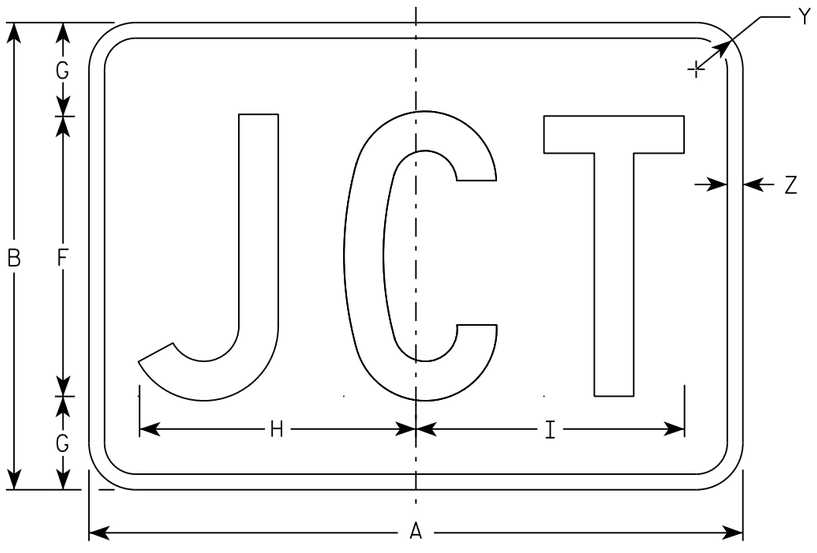
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

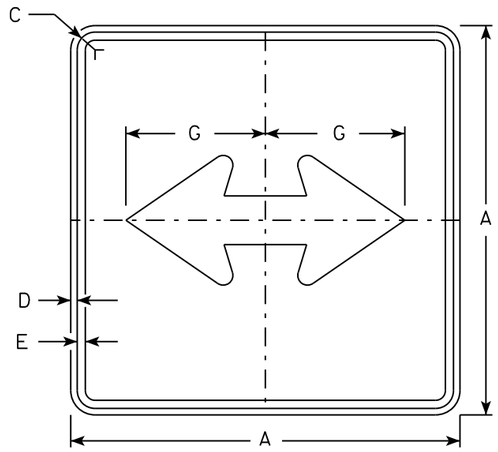
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

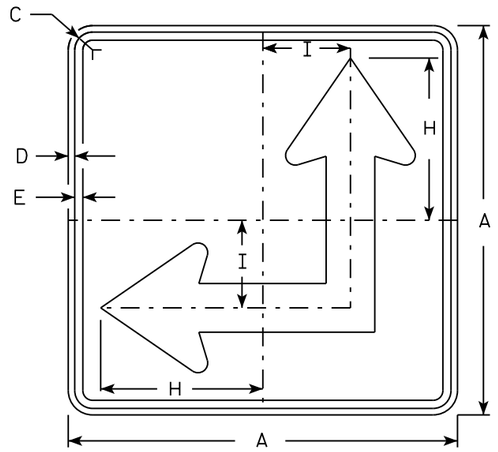
DATE 10/15/15 PLATE 152 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



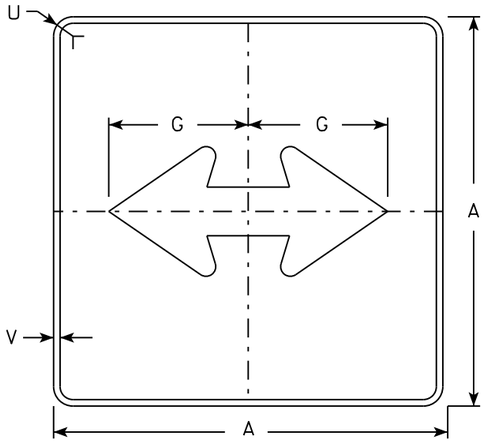
M6-4
MM6-4
MO6-4
MP6-4



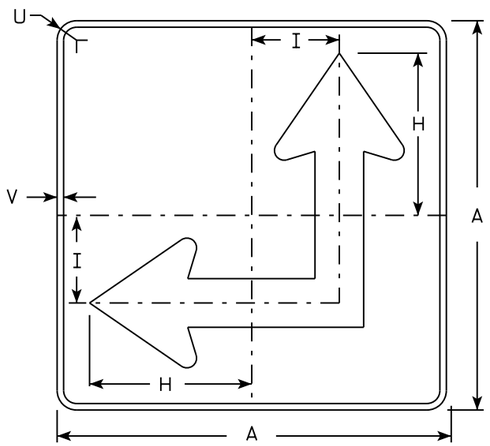
M6-6
MM6-6
MO6-6
MP6-6

NOTES

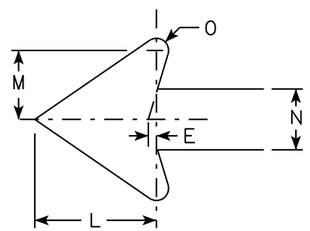
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

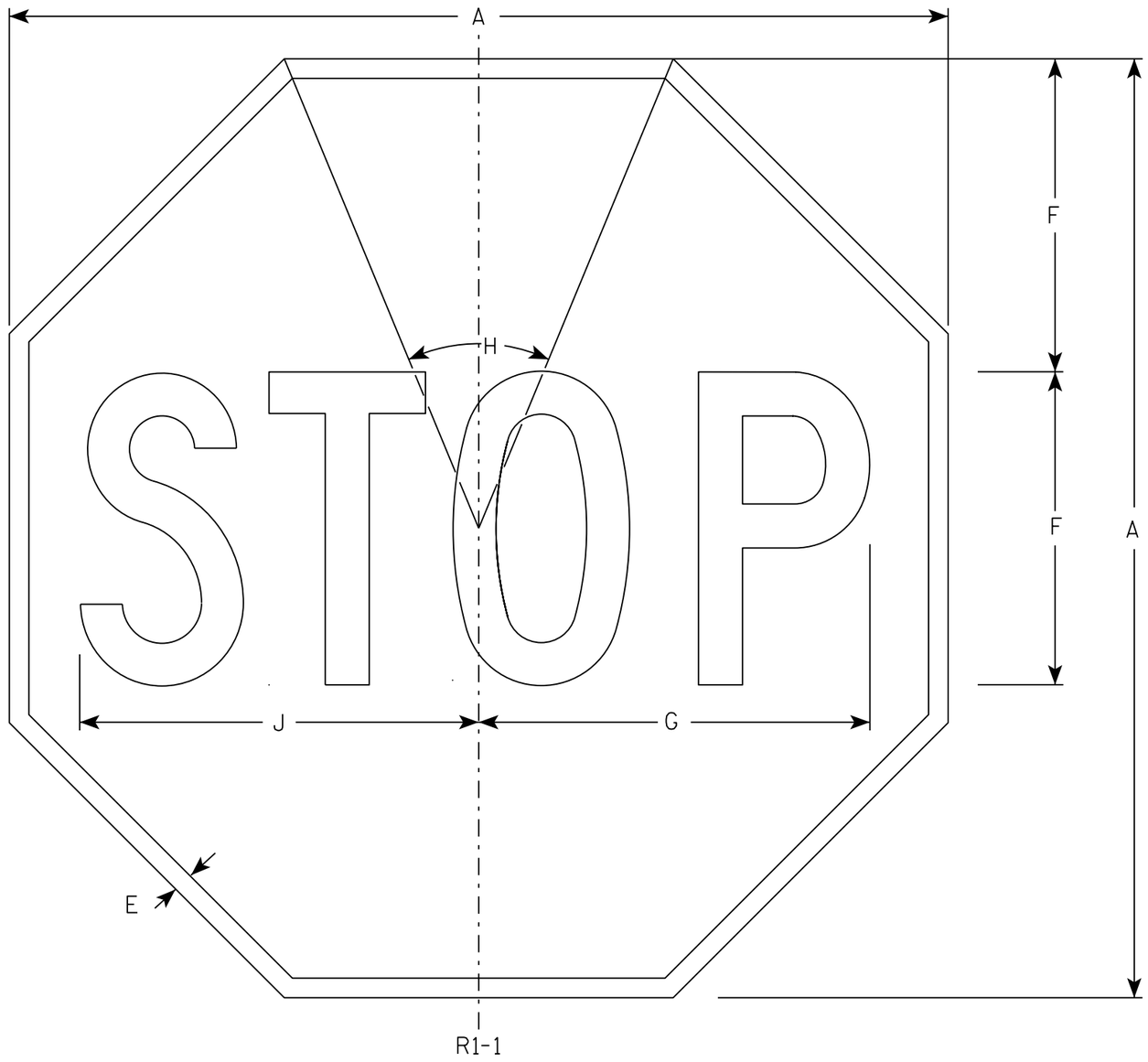
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE 153 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

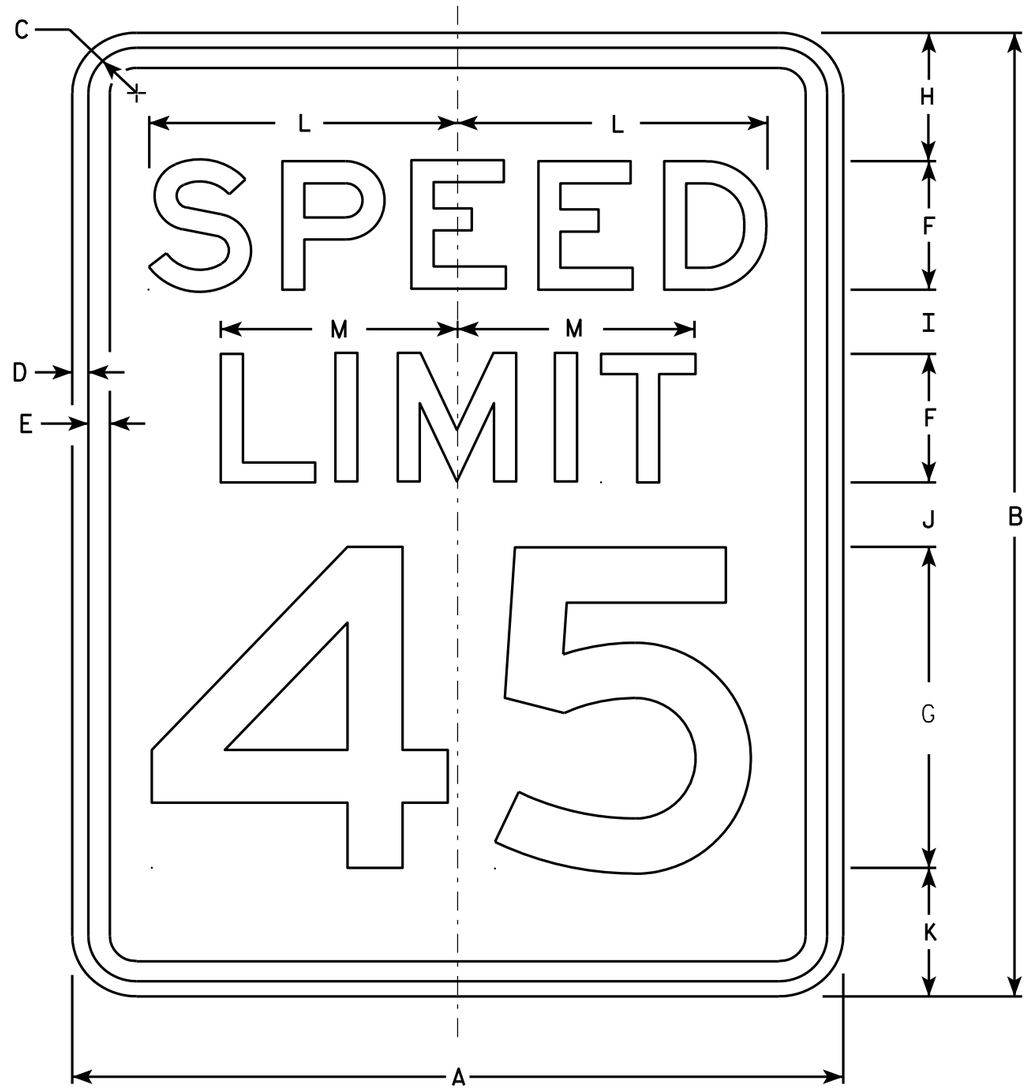
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

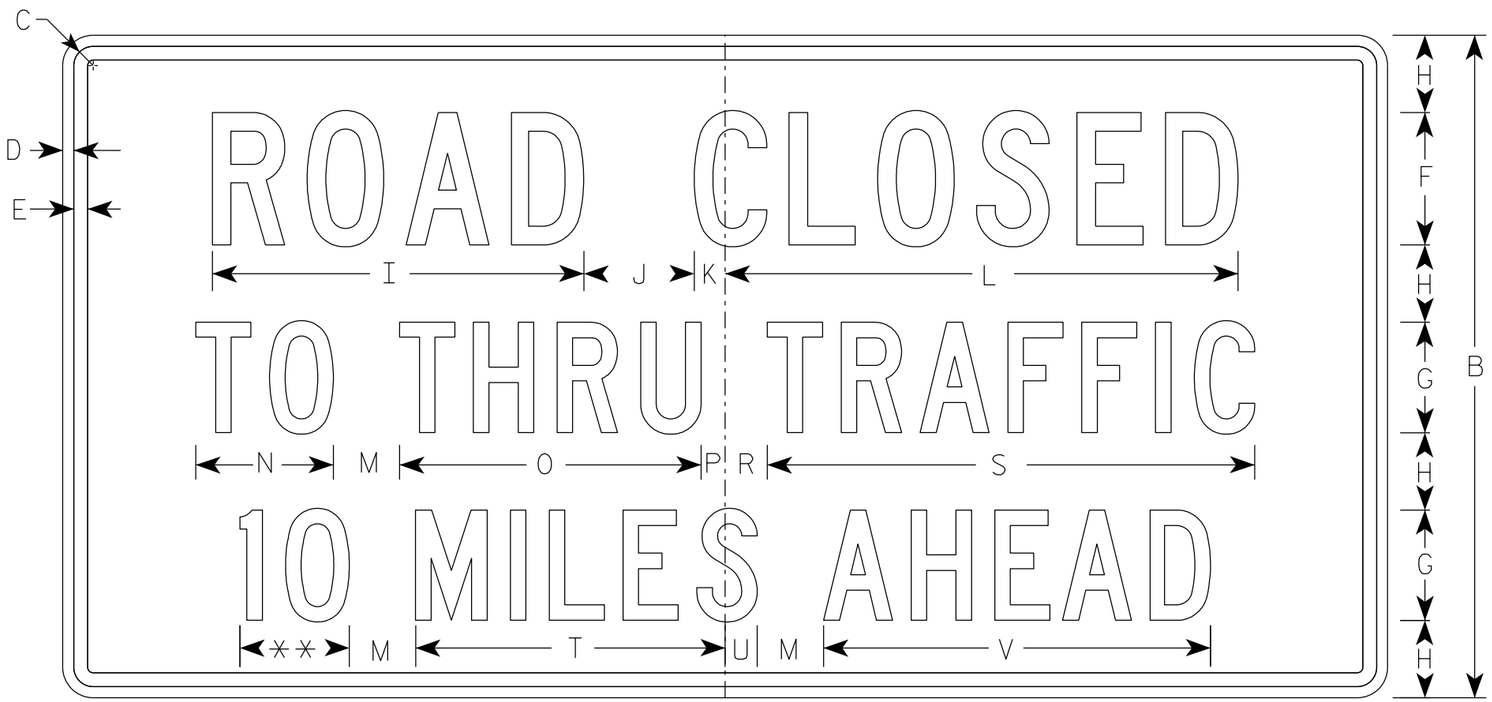
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42

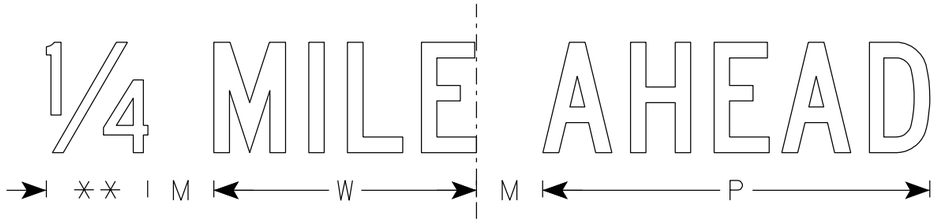
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



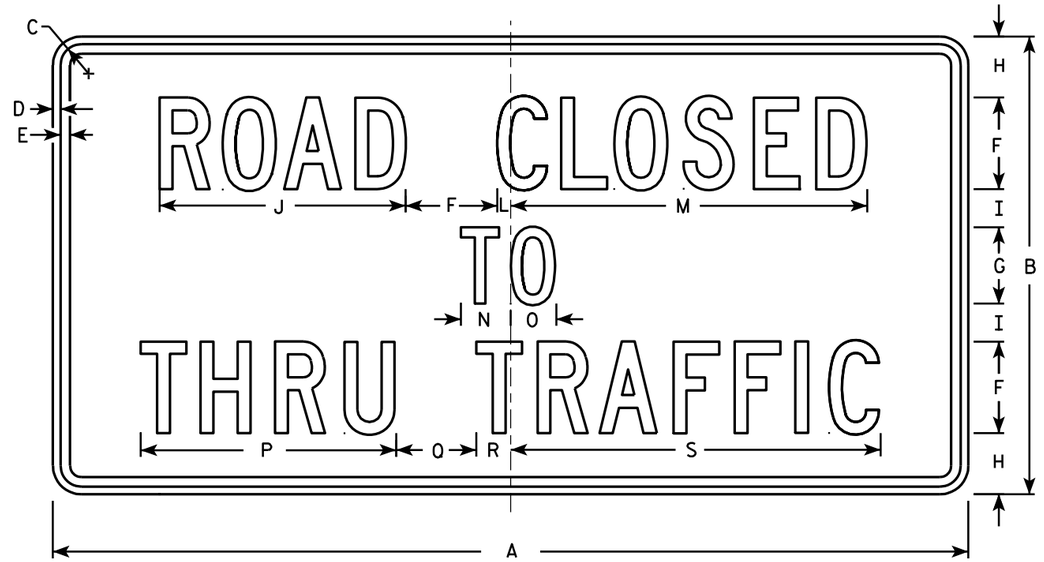
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

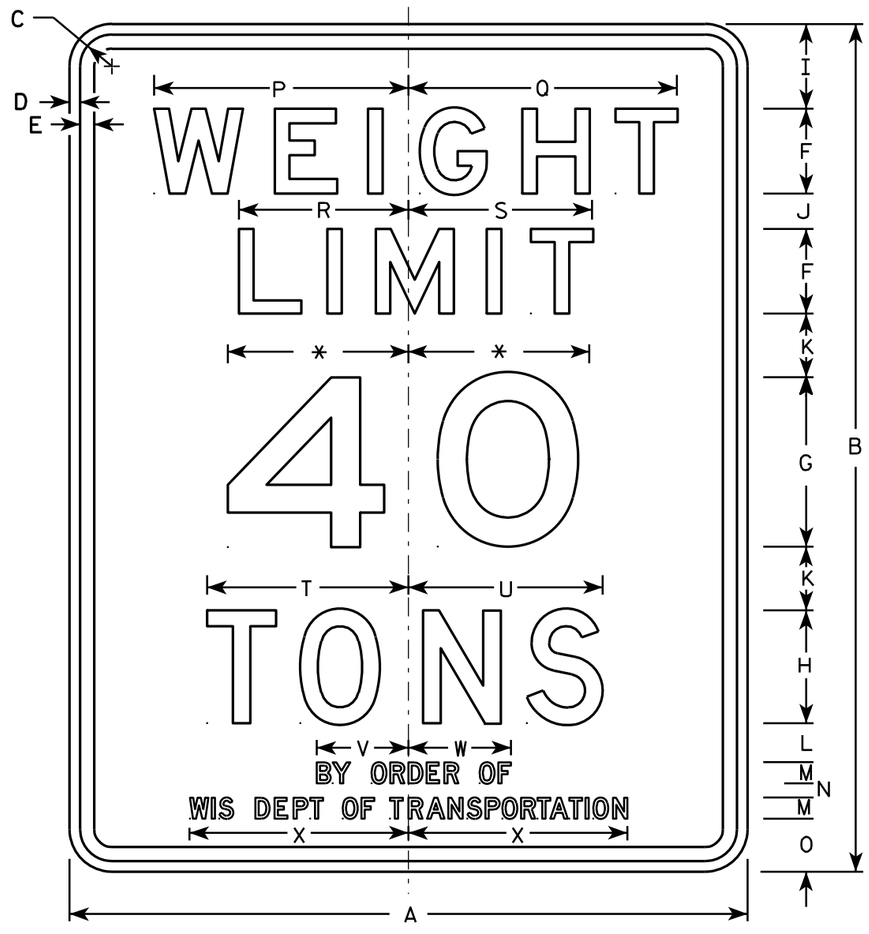
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E



R12-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 2 & 3 are series E
   Lines 4, 5, & 6 are series D.
6. Substitute appropriate numeral and optically adjust spacing to achieve proper balance.
7. Substitute name of county or town on County Trunk and Town Highways respectively. Community name on City or Village Streets including Connecting Highways is optional.

* Varies (see note 6)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2S	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
2M	24	30	1 1/8	3/8	1/2	3	6	4	3	1 1/4	2 1/4	1 3/8	3/4	1/2	1 7/8	9	9 1/2	6	6 1/2	7 1/8	6 7/8	3 1/4	3 5/8	7 3/4			5.0
3	36	48	1 3/8	1/2	5/8	6	10	8	4 1/2	2 1/2	2 1/4	1 1/2	3/4	1/2	3	13 1/2	14 1/4	9	9 3/4	10 5/8	10 1/4	3 1/4	3 5/8	7 3/4			12.0
4	48	60	2 1/4	3/4	1	6	12	8	6	2 1/2	4 1/2	2 3/4	1 1/2	1	3 3/4	18	19	12	13	14 1/4	13 3/4	6 1/2	7 1/4	15 1/2			20.0
5																											

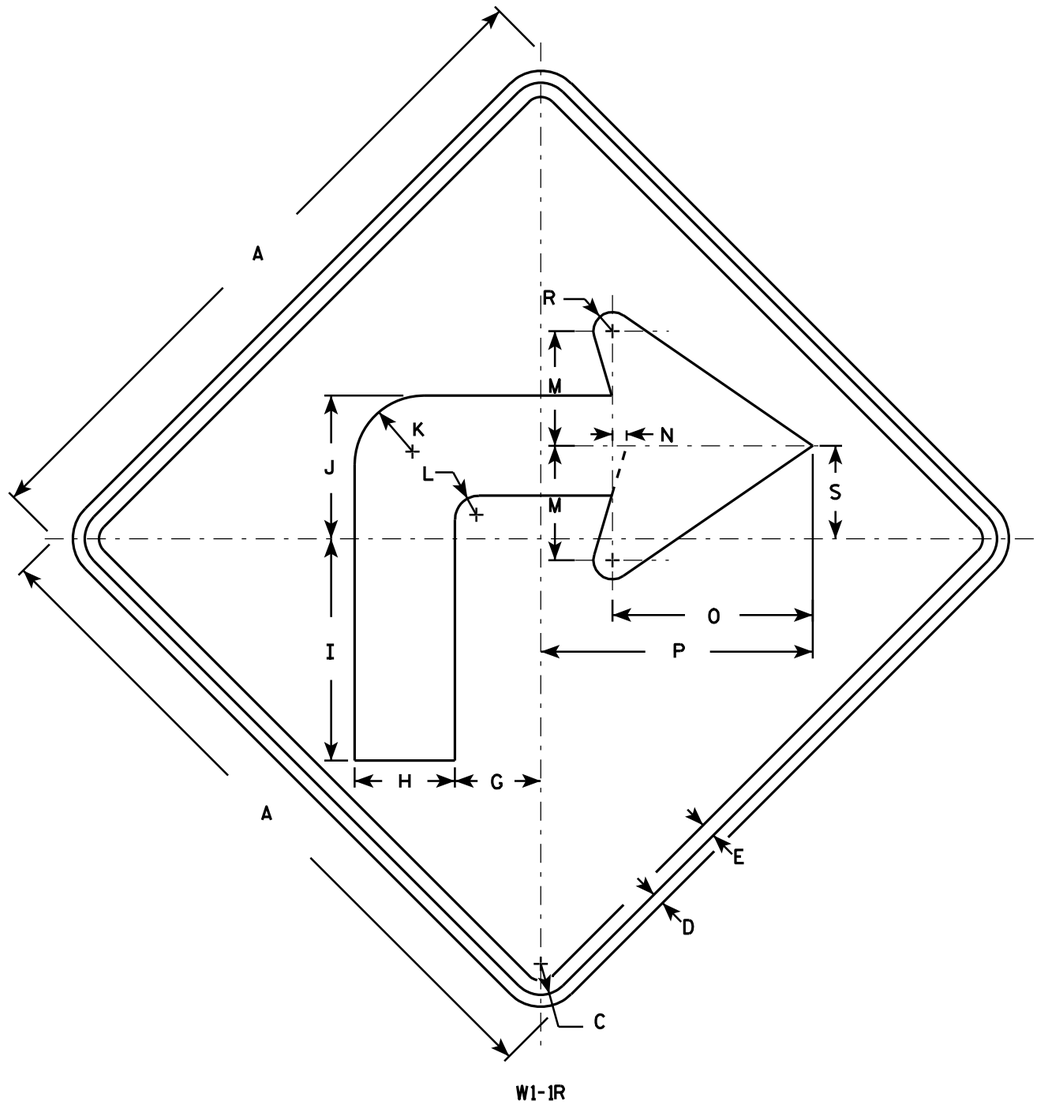
STANDARD SIGN
R12-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E



W1-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

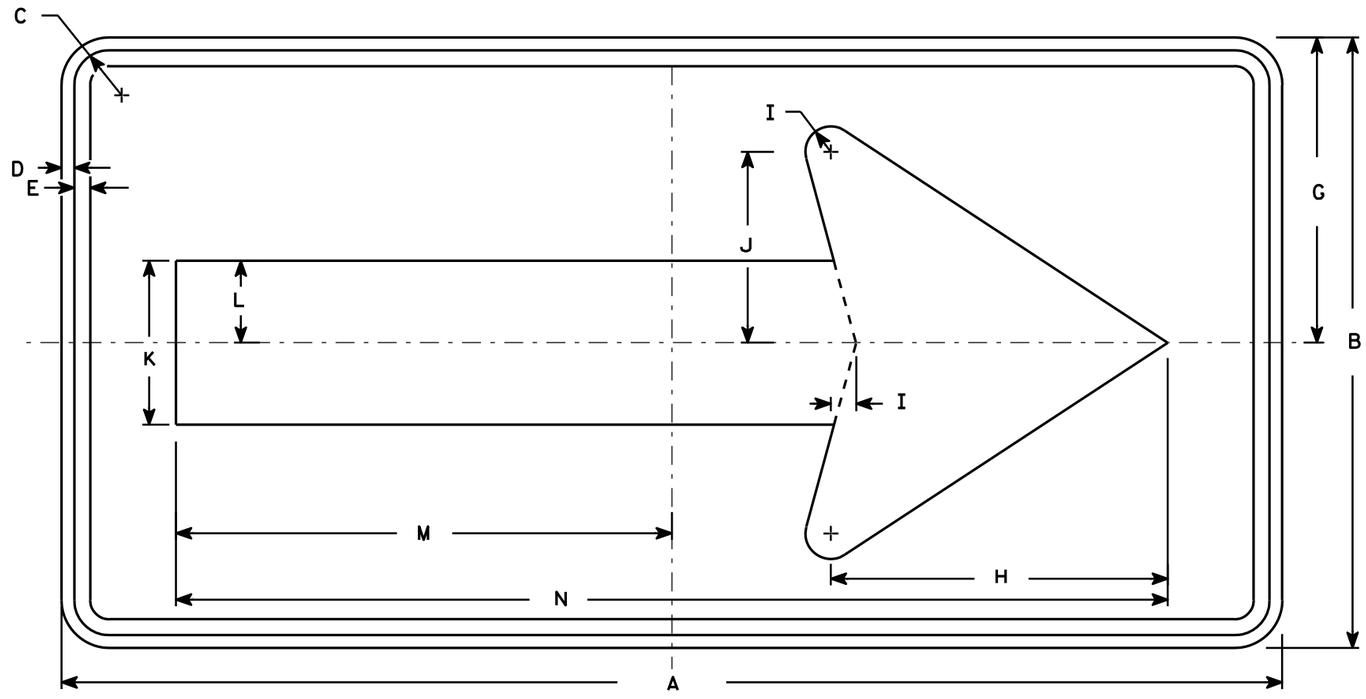
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W1-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

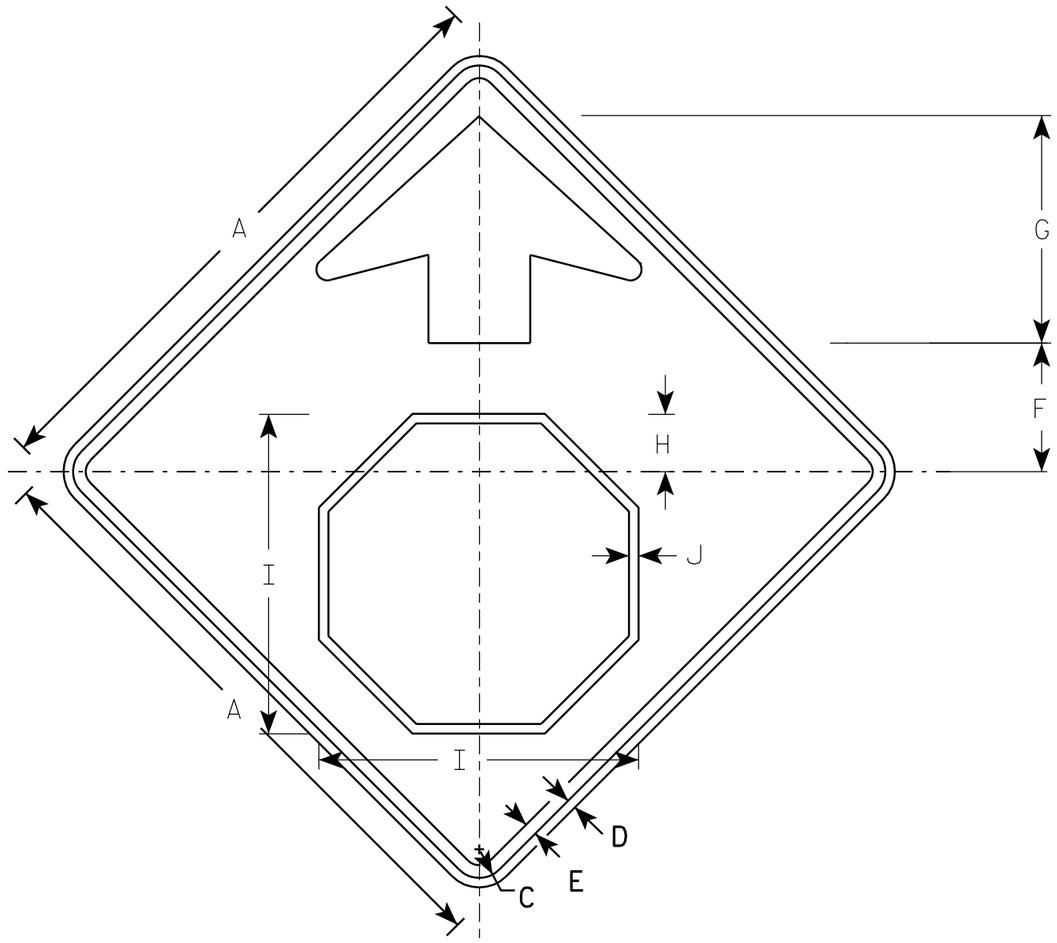
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

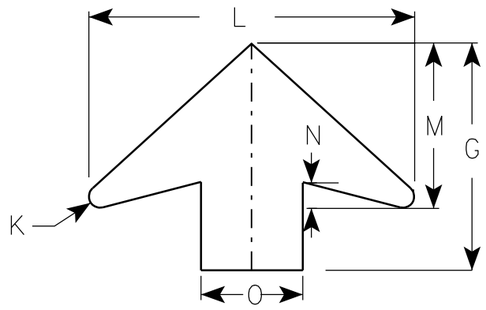
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 160



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

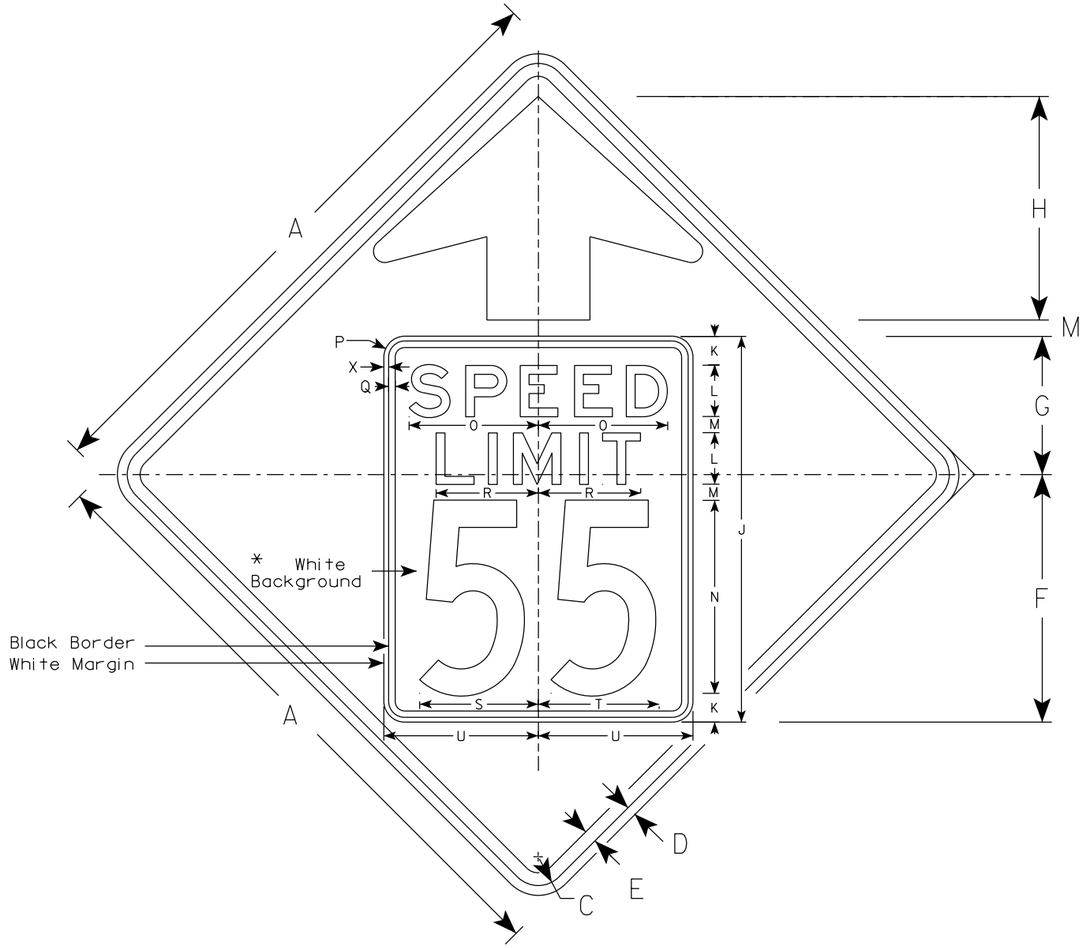
SHEET NO: 161 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN PLOT DATE : 07-JUN-2010 12:59 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7

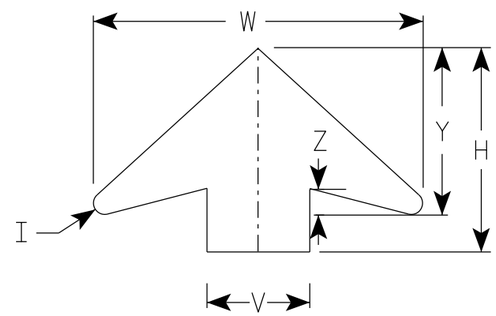


W3-5

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color: *
   Background - Yellow* (Type F Reflective)
   Message - Black
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

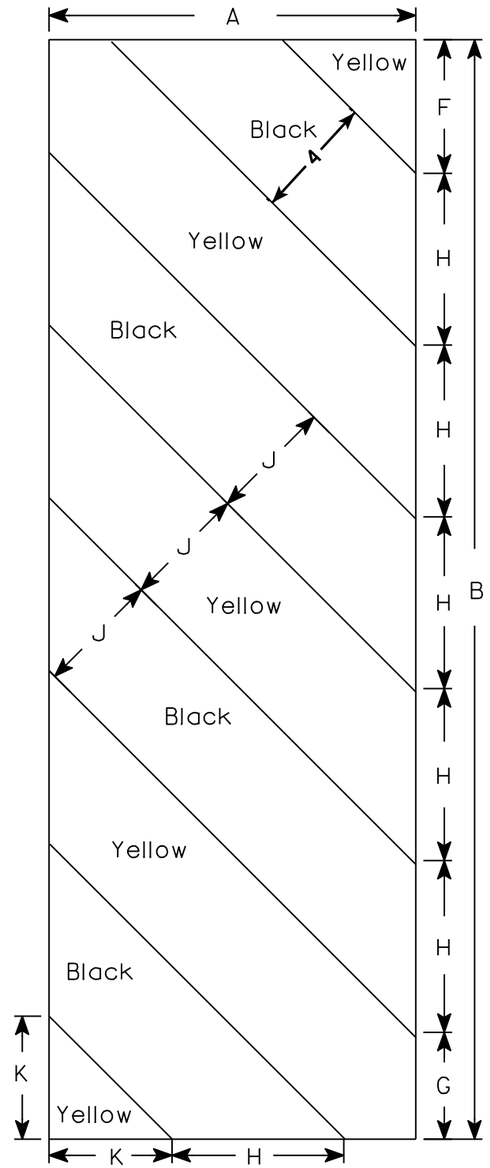
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew L Rauch
for State Traffic Engineer

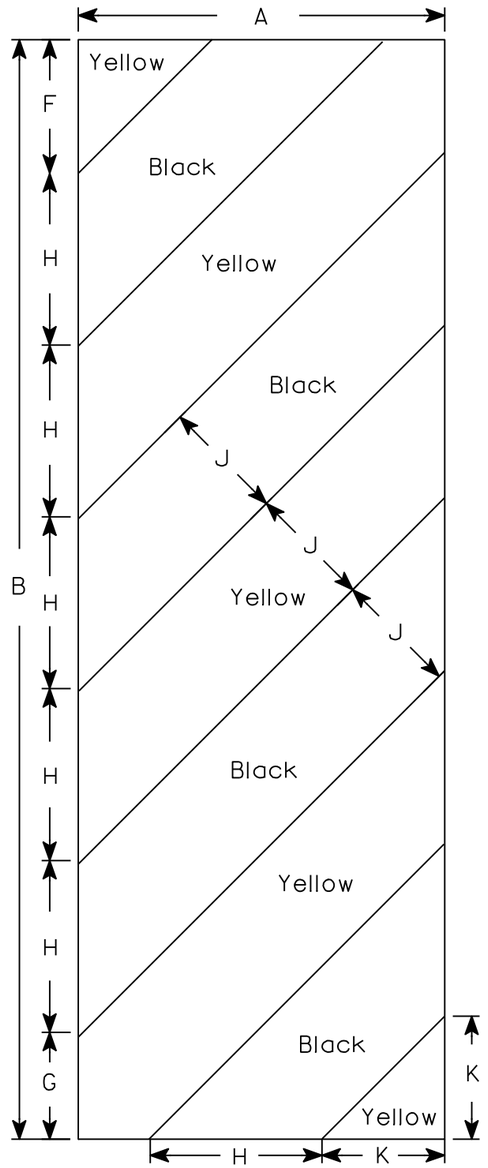
DATE 7/27/2020 PLATE NO. W3-5.6

PROJECT NO:

SHEET NO: 162 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

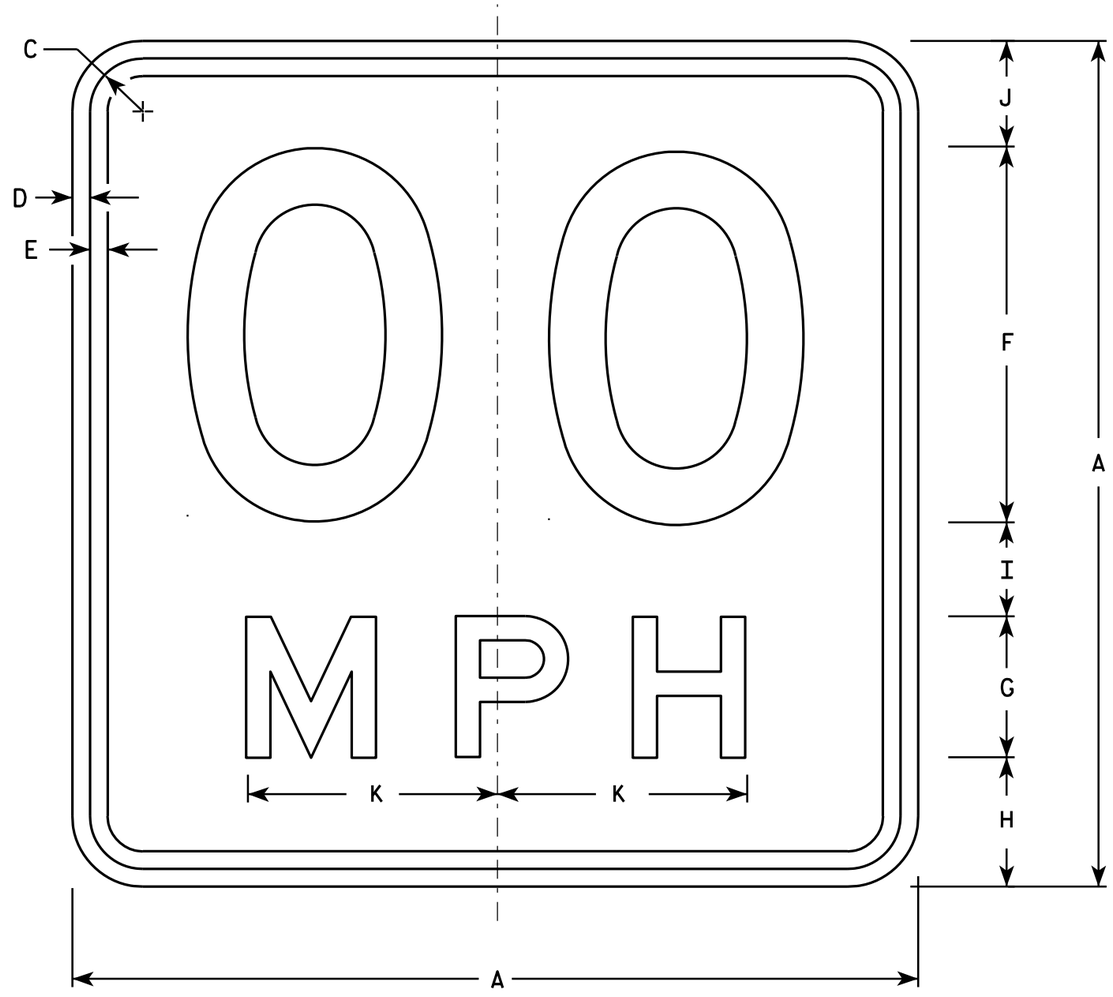
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

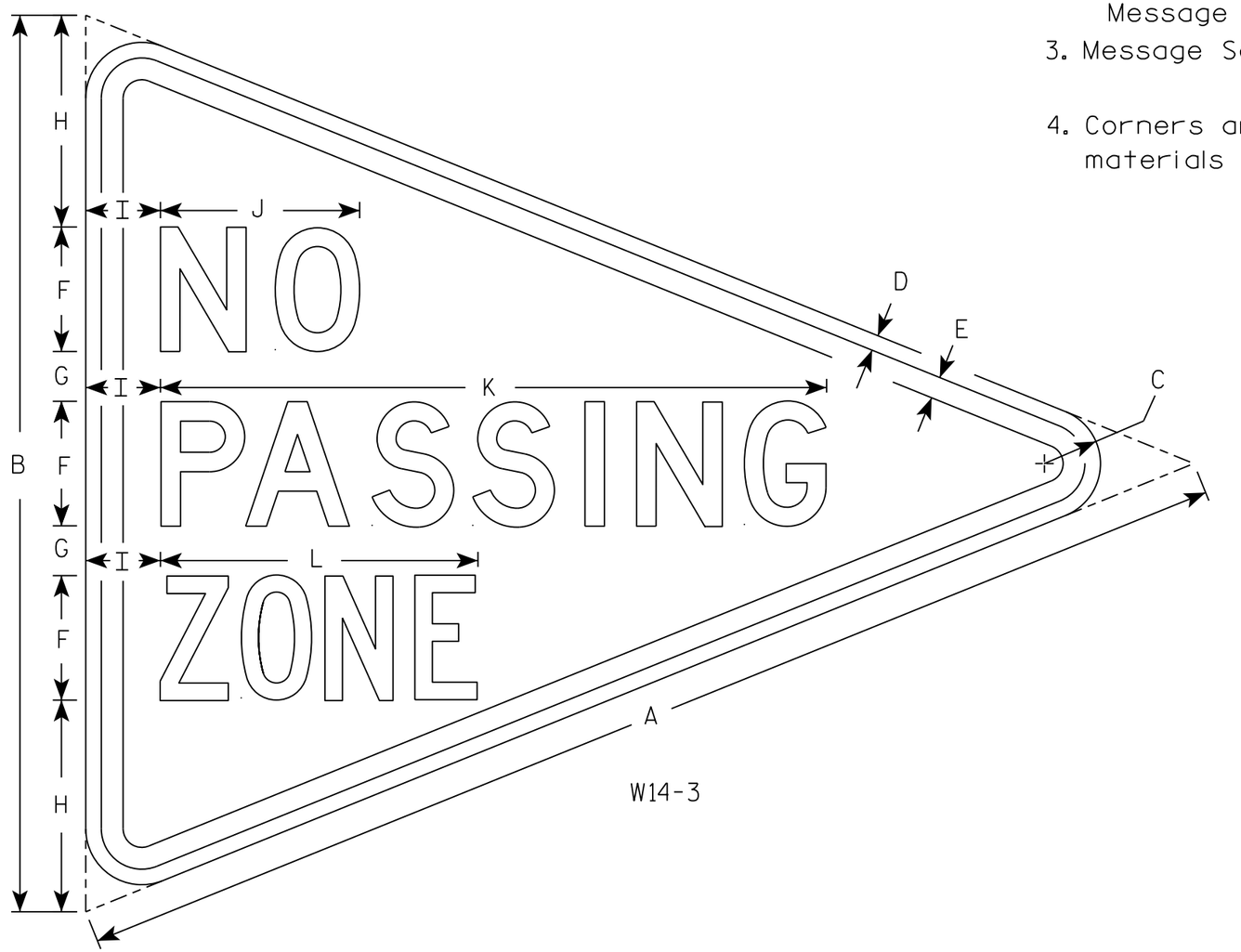
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

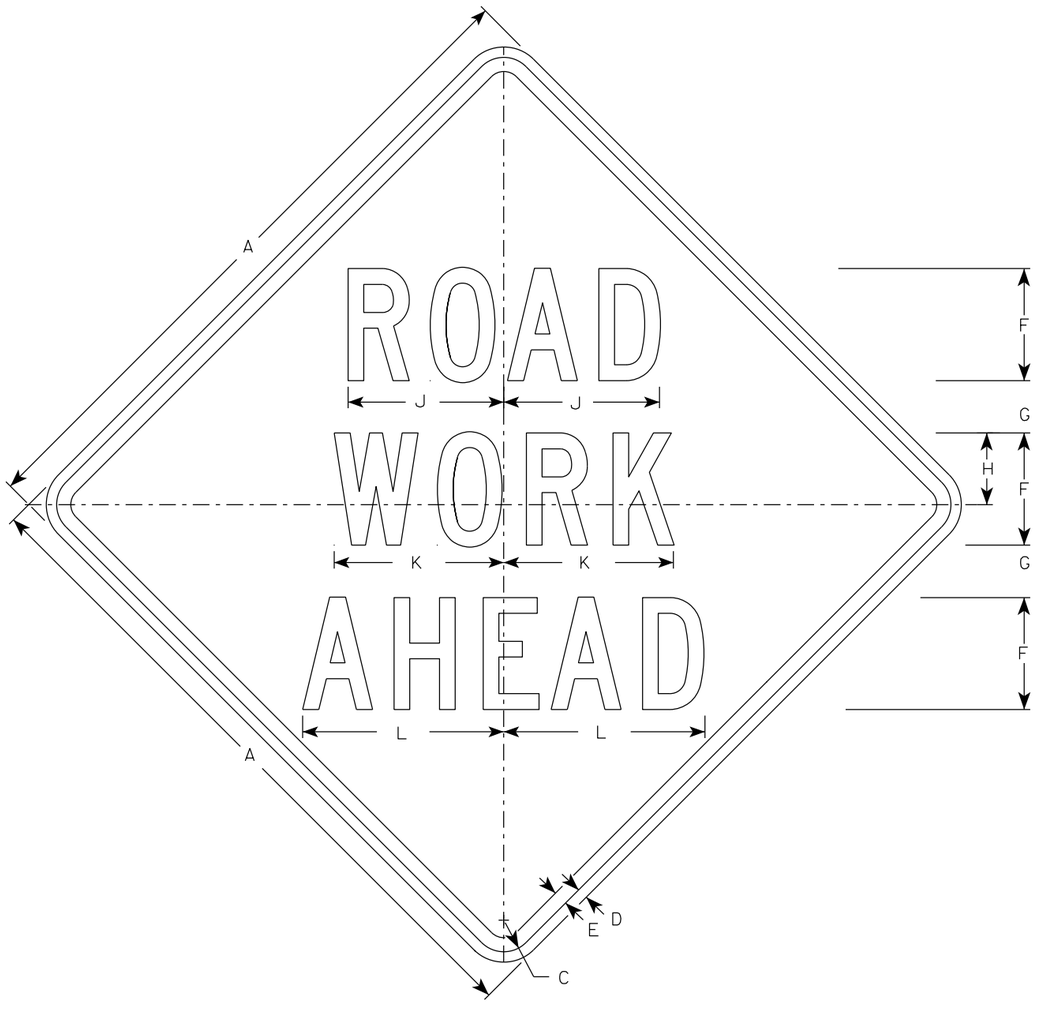
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

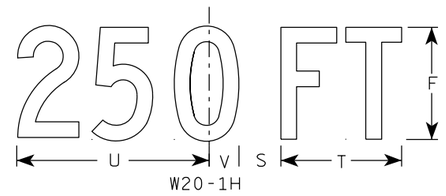
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

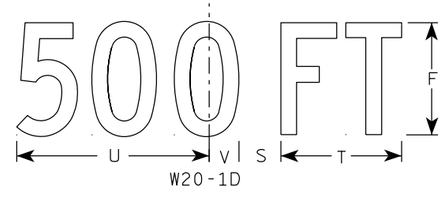
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



W20-1A

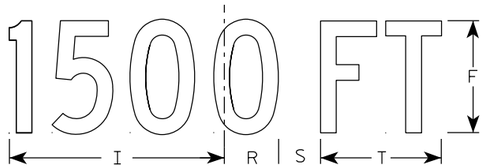


W20-1H



W20-1D

W20-1C



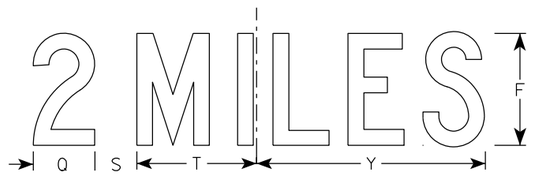
W20-1B

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W20-1G

W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

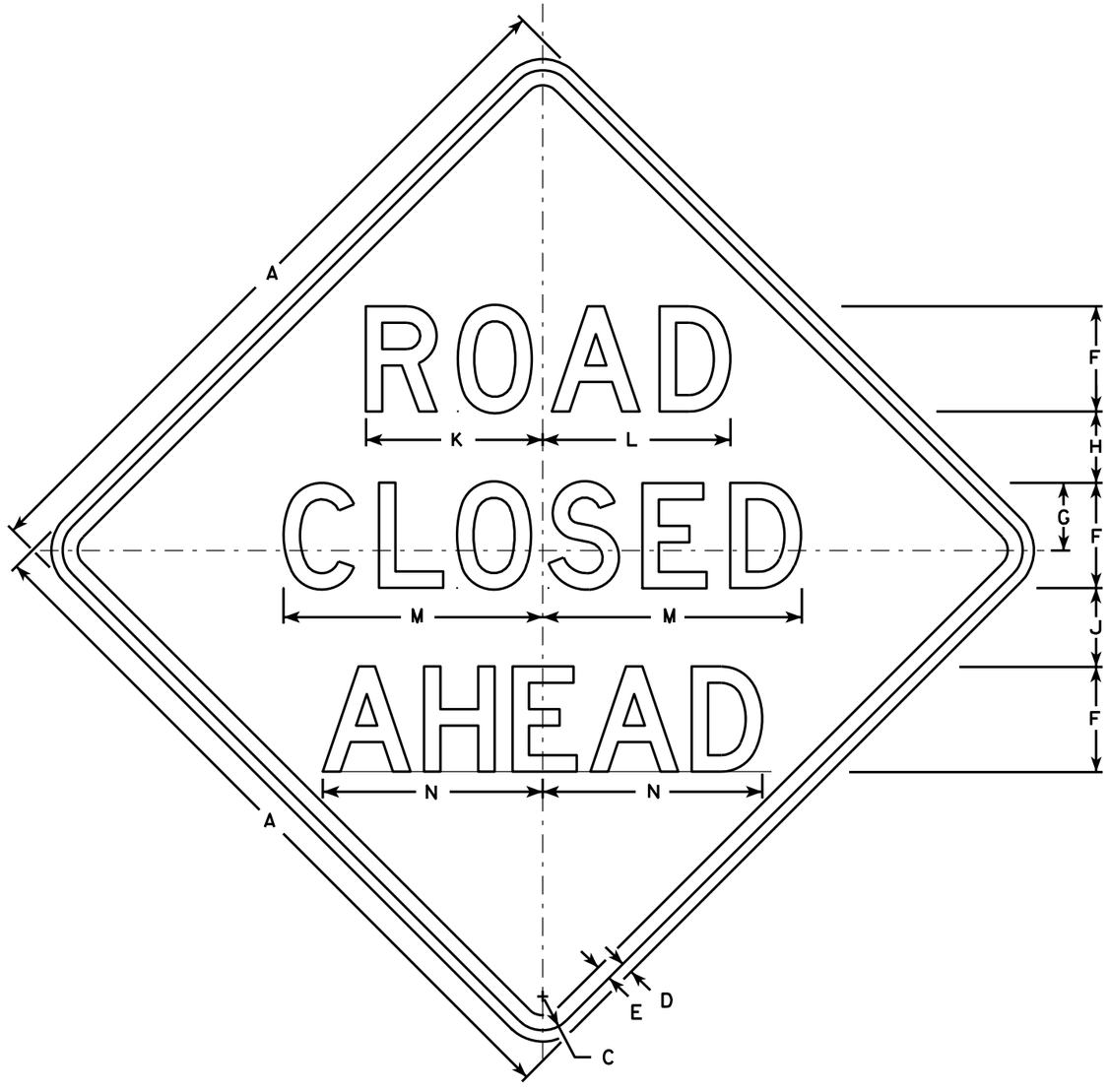
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

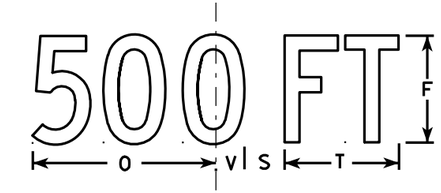
WISDOT/CADDS SHEET 42

7

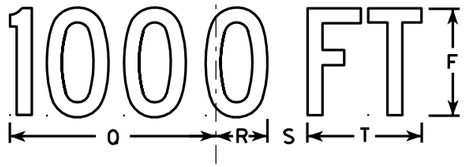
7



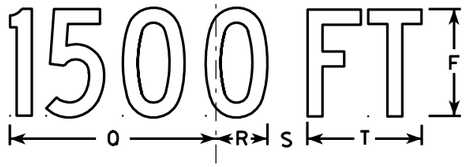
W20-3A



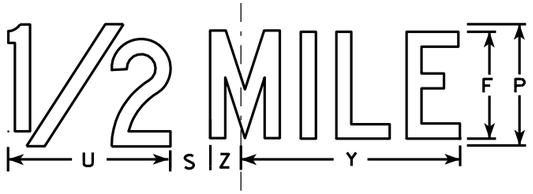
W20-3D



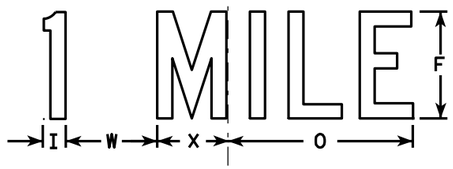
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 167 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

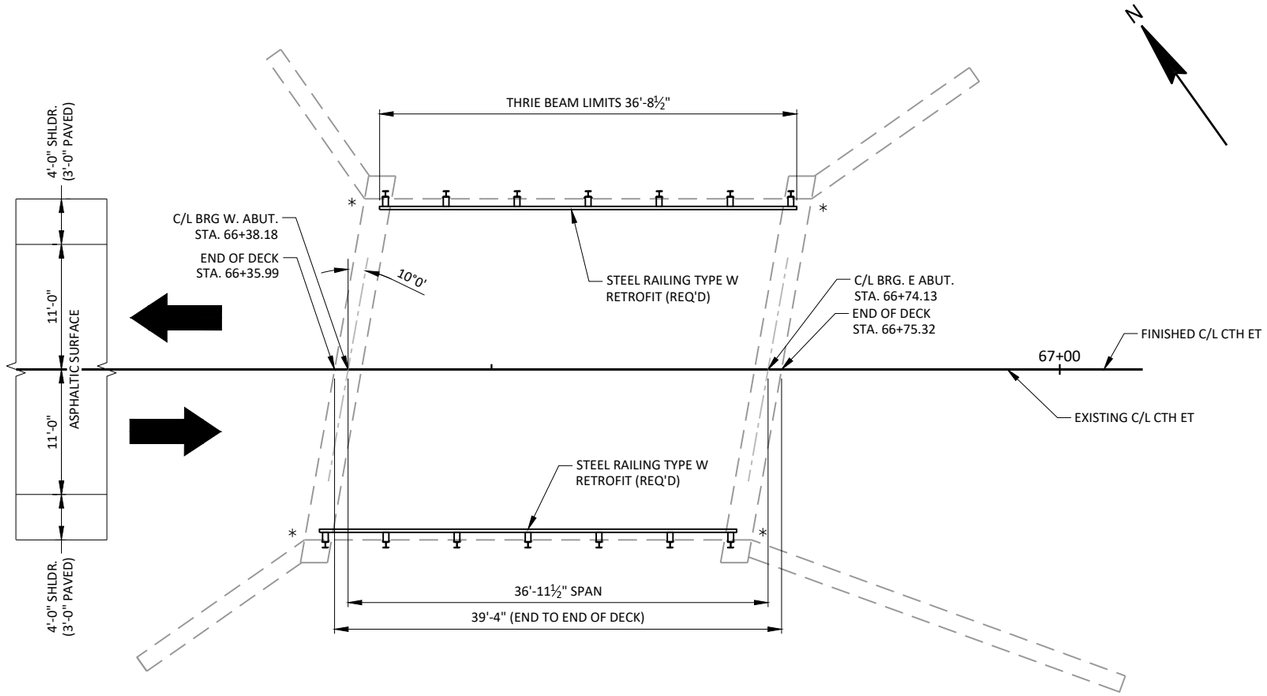
WISDOT/CADDS SHEET 42

7

7

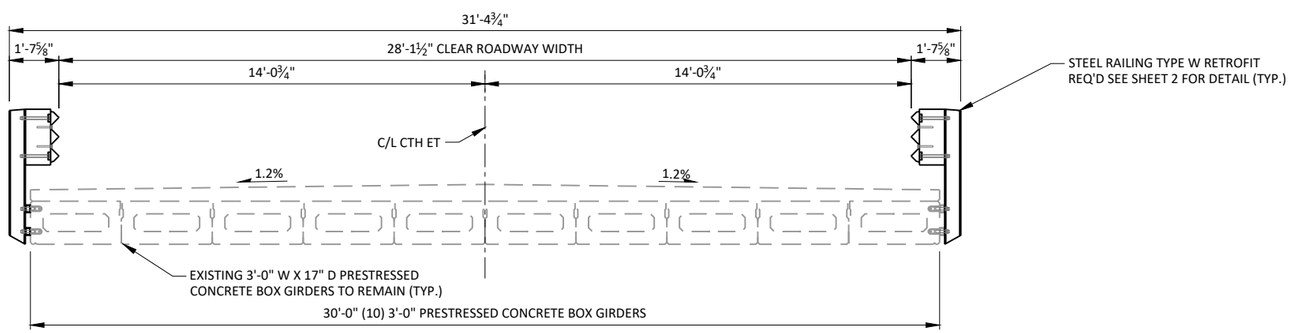
STATE PROJECT NUMBER

7373-00-74



PLAN B-41-157

(SINGLE SPAN 3'-0" PRESTRESSES CONCRETE BOX GIRDER)



CROSS SECTION THROUGH ROADWAY

(LOOKING EAST)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HS-20
INVENTORY RATING	HS-22
OPERATING RATING	HS-30

(RATINGS TAKEN FROM HSI ON 06-27-2023)

TRAFFIC DATA

A.D.T. (2024)	770
A.D.T. (2044)	1140
DESIGN SPEED	50 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE ORIGINAL STRUCTURE PLANS, INSPECTION REPORTS, AND FIELD SURVEY.

LEGEND

* THRIE BEAM TRANSITION REQ'D. SEE ROADWAY PLANS

LIST OF DRAWINGS

GENERAL PLAN	1.
RAILING DETAIL	2.

WISCONSIN PROFESSIONAL ENGINEER
PATRICK T. BOLAND E-36303 HILLPOINT WIS
Patrick Boland 8-30-23

DESIGN CONSULTANT
PATRICK BOLAND, P.E.
(608) 588-7484

BRIDGE OFFICE CONTACT
AARON BONK, P.E.
(608) 261-0261

NO.	DATE	REVISION	BY

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors
560 SUNRISE DRIVE
SPRING GREEN, WI 53588
OFFICE: (608) 588-7484
www.JewellAssoc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 11/17/23
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-41-157

CTH ET OVER LEMONWEIR RIVER

COUNTY	TOWN/~~CITY/VILLAGE~~
MONROE	LA GRANGE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MAN	PTB	MAN	PTB

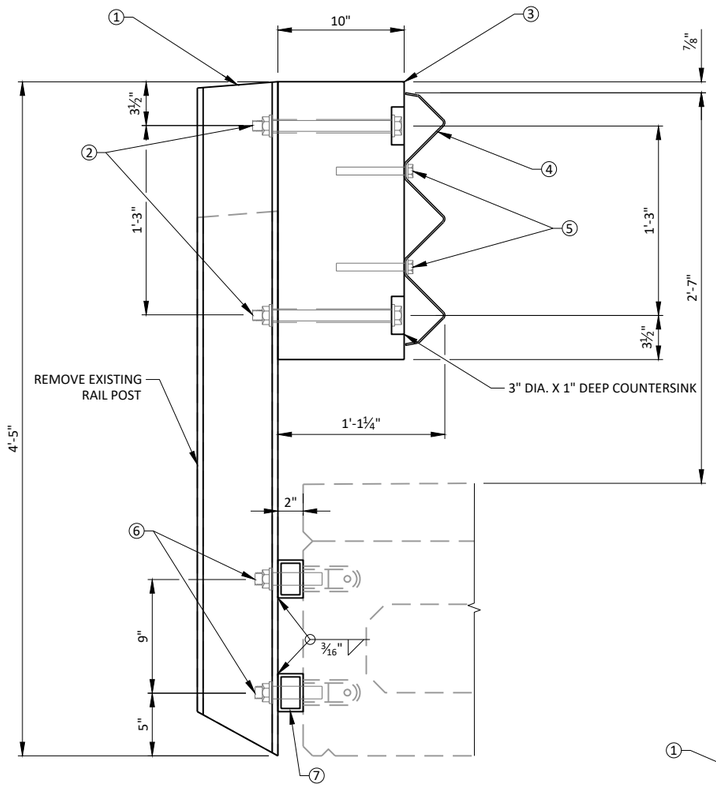
GENERAL PLAN

SHEET 1 OF 2

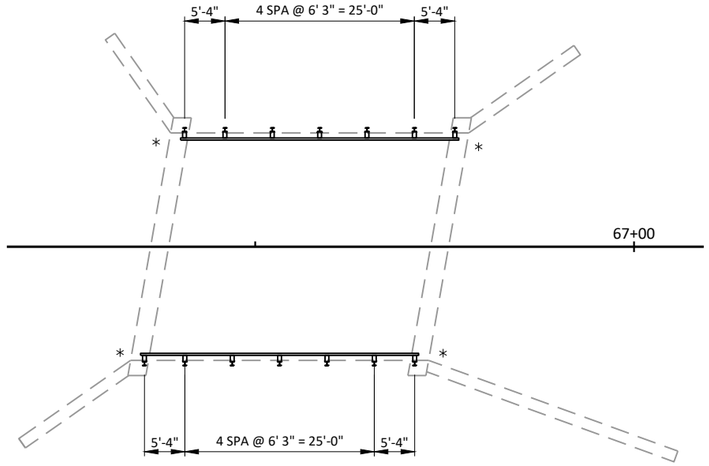
168

STATE PROJECT NUMBER

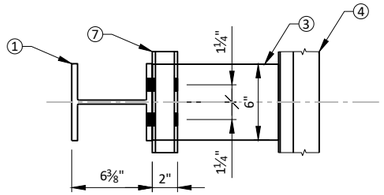
7373-00-74



SECTION THRU PARAPET RAILING



RAILPOST, THRIE BEAM & WOOD BLOCKING LAYOUT



RAIL POST CROSS SECTION

NOTES

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION

PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS SHALL BE GIVEN A NO. 6 COMMERCIAL BLAST CLEANING BY SSPC SPECS.

RAIL POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFIRM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI.

FOR THRIE BEAM SPLICE REFER TO STANDARD DETAIL "STEEL THRIE BEAM STRUCTURE APPROACH"

RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC AND UPPER RAILS SHALL LAP LOWER RAILS.

LEGEND

* BEGIN THRIE BEAM TRANSITION. SEE ROADWAY PLANS FOR DETAILS

① W6X25 WITH (2) - 1" X 2½" VERTICAL SLOTS ON ONE SIDE OF POST FLANGE FOR BOLT NO. 2 AND (4) - 1⅜" X 2" VERTICAL SLOTS FOR BOLT NO. 6 AT 3½" GAUGE PLACE POST VERTICAL

② ⅞" DIA. THREADED STUDS WITH ROUND WASHERS UNDER WELDED NUTS AND SQUARE WASHERS UNDER OUTSIDE NUTS. 1" DIA. HOLE IN WOOD BLOCKOUT.

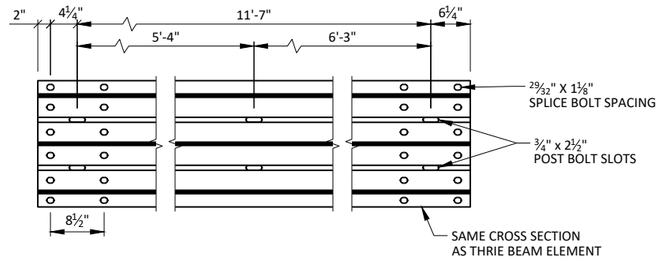
③ 10" X 6" X 1'-10" SPACER WOOD BLOCK

④ STEEL THRIE BEAM. REFER TO STANDARD DETAIL AND THIS PAGE.

⑤ ⅝" DIA. X 5½" LAG SCREW WITH ROUND WASHER. DRILL ½" DIA. HOLE IN SPACER WOOD BLOCK.

⑥ EXISTING 1" DIA. X 2" HEX BOLTS WITH NUT AND TWO WASHERS TO BE SALVAGED AND REUSED.

⑦ STRUCTURAL TUBE HSS 3 x 2 x 5/16 X 8" LONG, WITH 1⅜" X 2" SLOTTED HOLES FOR NO. 6 BOLTS. WELD TO NO. 1 AS SHOWN.



THRIE BEAM EXPANSION SECTION

REQ'D AT BRIDGE CORNERS SEE PLAN VIEW ABOVE
(NW & SE CORNERS SHOWN, MIRROR FOR NE & SW CORNERS)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
SPV.0090.01	STEEL RAILING TYPE W RETROFIT	LF	74

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-41-157

DRAWN BY MAN | PLANS CK'D. PTB

RAILING DETAIL

SHEET 2 OF 2

169

8

8

EARTHWORK - MAINLINE

STATION	DISTANCE (LF)	AREA (SF)			INCREMENTAL VOLUME (CY)					CUMULATIVE VOLUME (CY)				
		CUT	MARSH EXCAVATION	FILL	CUT NOTE 1	MARSH EXCAVATION NOTE 2	FILL NOTE 3	REDUCED MARSH IN FILL (0.60) NOTE 4	FILL (1.25) NOTE 5	CUT (1.00) NOTE 1	MARSH EXCAVATION NOTE 2	FILL NOTE 3	FILL (1.25) NOTE 5	MASS ORDINATE NOTE 6
13+89	0	120	0	0	0	0	0	0	0	0	0	0	0	0
14+00	11	117	0	0	48	0	0	0	0	48	0	0	0	48
15+00	100	79	0	0	363	0	0	0	0	411	0	0	0	411
16+00	100	84	0	0	302	0	0	0	0	713	0	0	0	713
17+00	100	68	0	3	281	0	6	0	8	994	0	6	8	986
18+00	100	89	0	0	291	0	6	0	8	1,285	0	12	16	1,269
19+00	100	104	0	0	357	0	0	0	0	1,642	0	12	16	1,626
20+00	100	108	0	0	393	0	0	0	0	2,035	0	12	16	2,019
21+00	100	111	0	0	406	0	0	0	0	2,441	0	12	16	2,425
22+00	100	73	0	1	341	0	2	0	3	2,782	0	14	19	2,763
23+00	100	55	0	4	237	0	9	0	11	3,019	0	23	30	2,989
23+78	78	75	0	9	187	0	19	0	24	3,206	0	42	54	3,152
24+00	22	44	0	8	49	0	7	0	9	3,255	0	49	63	3,192
25+00	100	46	0	28	167	0	67	0	84	3,422	0	116	147	3,275
26+00	100	86	0	17	244	0	83	0	104	3,666	0	199	251	3,415
26+50	50	74	8	48	148	7	60	4	70	3,814	7	259	321	3,493
27+00	50	92	0	0	154	0	45	0	56	3,968	7	304	377	3,591
28+00	100	17	5	36	202	9	67	5	78	4,170	16	371	455	3,715
29+00	100	18	0	37	65	0	135	0	169	4,235	16	506	624	3,611
30+00	100	27	0	37	83	0	137	0	171	4,318	16	643	795	3,523
31+00	100	18	0	62	83	0	183	0	229	4,401	16	826	1,024	3,377
32+00	100	10	0	84	52	0	270	0	338	4,453	16	1,096	1,362	3,091
33+00	100	4	0	86	26	0	315	0	394	4,479	16	1,411	1,756	2,723
34+00	100	2	0	85	11	0	317	0	396	4,490	16	1,728	2,152	2,338
35+00	100	0	0	98	4	0	339	0	424	4,494	16	2,067	2,576	1,918
36+00	100	0	0	82	0	0	333	0	416	4,494	16	2,400	2,992	1,502
37+00	100	3	0	59	6	0	261	0	326	4,500	16	2,661	3,318	1,182
38+00	100	18	0	27	39	0	159	0	199	4,539	16	2,820	3,517	1,022
39+00	100	33	0	5	94	0	59	0	74	4,633	16	2,879	3,591	1,042
40+00	100	45	0	0	144	0	9	0	11	4,777	16	2,888	3,602	1,175
41+00	100	56	0	3	187	0	6	0	8	4,964	16	2,894	3,610	1,354
42+00	100	96	0	0	281	0	6	0	8	5,245	16	2,900	3,618	1,627
43+00	100	86	0	3	337	0	6	0	8	5,582	16	2,906	3,626	1,956
44+00	100	125	0	0	391	0	6	0	8	5,973	16	2,912	3,634	2,339
45+00	100	134	0	0	480	0	0	0	0	6,453	16	2,912	3,634	2,819
46+00	100	137	0	0	502	0	0	0	0	6,955	16	2,912	3,634	3,321
47+00	100	144	0	0	520	0	0	0	0	7,475	16	2,912	3,634	3,841
48+00	100	133	0	0	513	0	0	0	0	7,988	16	2,912	3,634	4,354
49+00	100	140	0	0	506	0	0	0	0	8,494	16	2,912	3,634	4,860
50+00	100	133	0	0	506	0	0	0	0	9,000	16	2,912	3,634	5,366
51+00	100	121	0	0	470	0	0	0	0	9,470	16	2,912	3,634	5,836
52+00	100	136	0	0	476	0	0	0	0	9,946	16	2,912	3,634	6,312
53+00	100	123	0	0	480	0	0	0	0	10,426	16	2,912	3,634	6,792
54+00	100	105	5	0	422	9	0	5	-6	10,848	25	2,912	3,628	7,220
55+00	100	119	9	0	415	26	0	16	-20	11,263	51	2,912	3,608	7,655
56+00	100	105	0	0	415	0	0	0	0	11,678	51	2,912	3,608	8,070
57+00	100	117	0	0	411	0	0	0	0	12,089	51	2,912	3,608	8,481
58+00	100	116	0	0	431	0	0	0	0	12,520	51	2,912	3,608	8,912
59+00	100	113	0	0	424	0	0	0	0	12,944	51	2,912	3,608	9,336
60+00	100	112	5	0	417	9	0	5	-6	13,361	60	2,912	3,602	9,759
61+00	100	94	5	0	381	19	0	11	-14	13,742	79	2,912	3,588	10,154
62+00	100	64	0	6	293	0	11	0	14	14,035	79	2,923	3,602	10,433
63+00	100	49	0	0	209	0	11	0	14	14,244	79	2,934	3,616	10,628
64+00	100	46	1	15	176	2	28	1	34	14,420	81	2,962	3,650	10,770
65+00	100	62	13	22	200	26	69	16	66	14,620	107	3,031	3,716	10,904

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - MARSH EXCAVATION	MARSH EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME
4 - REDUCED MARSH IN FILL	(MARSH EXCAVATION)*0.60: THAT CAN BE USED IN FILL
5 - FILL (1.25)	(UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
6 - MASS ORDINATE	CUT - FILL (1.25)

9

9

EARTHWORK-MAINLINE CONTINUED

66+00	100	49	0	7	206	0	54	0	68	14,826	107	3,085	3,784	11,042
66+36	36	32	0	9	54	0	11	0	14	14,880	107	3,096	3,798	11,082
66+75	39	17	0	0	0	0	0	0	0	14,880	107	3,096	3,798	11,082
67+00	25	34	0	5	23	0	2	0	3	14,903	107	3,098	3,801	11,102
68+00	100	37	11	44	131	20	91	12	99	15,034	127	3,189	3,900	11,134
69+00	100	35	4	35	133	29	146	17	161	15,167	156	3,335	4,061	11,106
70+00	100	33	9	41	126	24	141	14	159	15,293	180	3,476	4,220	11,073
71+00	100	36	4	49	128	24	167	14	191	15,421	204	3,643	4,411	11,010
71+24	24	36	0	22	32	0	31	0	39	15,453	204	3,674	4,450	11,003
72+00	76	29	8	23	92	12	64	7	71	15,545	216	3,738	4,521	11,024
73+00	100	13	12	32	78	38	102	23	99	15,623	254	3,840	4,620	11,003
74+00	100	19	4	4	59	30	67	18	61	15,682	284	3,907	4,681	11,001
75+00	100	70	0	0	165	0	7	0	9	15,847	284	3,914	4,690	11,157
76+00	100	60	0	0	241	0	0	0	0	16,088	284	3,914	4,690	11,398
77+00	100	49	0	0	202	0	0	0	0	16,290	284	3,914	4,690	11,600
78+00	100	44	0	0	172	0	0	0	0	16,462	284	3,914	4,690	11,772
79+00	100	70	0	0	211	0	0	0	0	16,673	284	3,914	4,690	11,983
80+00	100	81	0	0	280	0	0	0	0	16,953	284	3,914	4,690	12,263
81+00	100	43	0	0	230	0	0	0	0	17,183	284	3,914	4,690	12,493
82+00	100	20	0	5	117	0	9	0	11	17,300	284	3,923	4,701	12,599
83+00	100	45	0	6	120	0	20	0	25	17,420	284	3,943	4,726	12,694
84+00	100	29	0	23	137	0	54	0	68	17,557	284	3,997	4,794	12,763
85+00	100	4	0	33	61	0	104	0	130	17,618	284	4,101	4,924	12,694
86+00	100	22	0	16	48	0	91	0	114	17,666	284	4,192	5,038	12,628
87+00	100	15	0	26	69	0	78	0	98	17,735	284	4,270	5,136	12,599
88+00	100	17	0	37	59	0	117	0	146	17,794	284	4,387	5,282	12,512
89+00	100	7	0	28	44	0	120	0	150	17,838	284	4,507	5,432	12,406
90+00	100	14	0	18	39	0	85	0	106	17,877	284	4,592	5,538	12,339
91+00	100	58	0	3	133	0	39	0	49	18,010	284	4,631	5,587	12,423
92+00	100	125	0	0	339	0	6	0	8	18,349	284	4,637	5,595	12,754
93+00	100	160	0	0	528	0	0	0	0	18,877	284	4,637	5,595	13,282
94+00	100	115	0	0	509	0	0	0	0	19,386	284	4,637	5,595	13,791
94+32	32	116	0	3	135	0	2	0	3	19,521	284	4,639	5,598	13,923
95+00	68	40	0	6	198	0	11	0	14	19,719	284	4,650	5,612	14,107
96+00	100	25	0	14	120	0	37	0	46	19,839	284	4,687	5,658	14,181
97+00	100	28	5	10	98	9	44	5	49	19,937	293	4,731	5,707	14,230
98+00	100	12	9	37	74	26	87	16	89	20,011	319	4,818	5,796	14,215
99+00	100	11	22	32	43	57	128	34	118	20,054	376	4,946	5,914	14,140
100+00	100	50	17	29	0	0	0	0	0	20,054	376	4,946	5,914	14,140
101+00	100	49	32	52	183	91	150	55	119	20,237	467	5,096	6,033	14,204
102+00	100	63	15	22	207	87	137	52	106	20,444	554	5,233	6,139	14,305
103+00	100	61	9	18	230	44	74	26	60	20,674	598	5,307	6,199	14,475
104+00	100	62	3	15	228	22	61	13	60	20,902	620	5,368	6,259	14,643
105+00	100	49	8	17	206	20	59	12	59	21,108	640	5,427	6,318	14,790
106+00	100	40	7	17	165	28	63	17	58	21,273	668	5,490	6,376	14,897
107+00	100	51	11	22	169	33	72	20	65	21,442	701	5,562	6,441	15,001
108+00	100	58	3	16	202	26	70	16	68	21,644	727	5,632	6,509	15,135
109+00	100	71	0	7	239	0	43	0	54	21,883	727	5,675	6,563	15,320
110+00	100	72	0	7	265	0	26	0	33	22,148	727	5,701	6,596	15,552
111+00	100	61	0	5	246	0	22	0	28	22,394	727	5,723	6,624	15,770
112+00	100	51	0	6	207	0	20	0	25	22,601	727	5,743	6,649	15,952
113+00	100	47	0	15	181	0	39	0	49	22,782	727	5,782	6,698	16,084
114+00	100	54	0	9	187	0	44	0	55	22,969	727	5,826	6,753	16,216
115+00	100	92	0	5	270	0	26	0	33	23,239	727	5,852	6,786	16,453
116+00	100	86	0	4	330	0	17	0	21	23,569	727	5,869	6,807	16,762
117+00	100	49	0	0	250	0	7	0	9	23,819	727	5,876	6,816	17,003
118+00	100	40	0	2	165	0	4	0	5	23,984	727	5,880	6,821	17,163
119+00	100	56	0	1	178	0	6	0	8	24,162	727	5,886	6,829	17,333
120+00	100	73	0	0	239	0	2	0	3	24,401	727	5,888	6,832	17,569
121+00	100	80	0	1	283	0	2	0	3	24,684	727	5,890	6,835	17,849
122+00	100	66	0	6	270	0	13	0	16	24,954	727	5,903	6,851	18,103
123+00	100	59	0	6	231	0	22	0	28	25,185	727	5,925	6,879	18,306
124+00	100	30	14	7	165	26	24	16	10	25,350	753	5,949	6,889	18,461
125+00	100	19	0	3	91	0	19	0	24	25,441	753	5,968	6,913	18,528

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - MARSH EXCAVATION	MARSH EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME
4 - REDUCED MARSH IN FILL	(MARSH EXCAVATION)*0.60: THAT CAN BE USED IN FILL
5 - FILL (1.25)	(UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
6 - MASS ORDINATE	CUT - FILL (1.25)

EARTHWORK-MAINLINE CONTINUED

126+00	100	26	0	3	83	0	11	0	14	25,524	753	5,979	6,927	18,597
127+00	100	22	0	18	89	0	39	0	49	25,613	753	6,018	6,976	18,637
128+00	100	20	0	23	78	0	76	0	95	25,691	753	6,094	7,071	18,620
129+00	100	35	0	11	102	0	63	0	79	25,793	753	6,157	7,150	18,643
130+00	100	42	0	11	143	0	41	0	51	25,936	753	6,198	7,201	18,735
131+00	100	51	0	6	172	0	31	0	39	26,108	753	6,229	7,240	18,868
132+00	100	41	0	4	170	0	19	0	24	26,278	753	6,248	7,264	19,014
133+00	100	32	0	3	135	0	13	0	16	26,413	753	6,261	7,280	19,133
134+00	100	32	0	3	119	0	11	0	14	26,532	753	6,272	7,294	19,238
135+00	100	29	0	24	113	0	50	0	63	26,645	753	6,322	7,357	19,288
135+07	7	29	0	34	8	0	8	0	10	26,653	753	6,330	7,367	19,286
136+00	93	38	0	12	115	0	79	0	99	26,768	753	6,409	7,466	19,302
137+00	100	42	0	11	148	0	43	0	54	26,916	753	6,452	7,520	19,396
138+00	100	49	0	16	169	0	50	0	63	27,085	753	6,502	7,583	19,502
139+00	100	30	0	24	146	0	74	0	93	27,231	753	6,576	7,676	19,555
140+00	100	20	0	27	93	0	94	0	118	27,324	753	6,670	7,794	19,530
141+00	100	14	0	29	63	0	104	0	130	27,387	753	6,774	7,924	19,463
142+00	100	6	0	29	37	0	107	0	134	27,424	753	6,881	8,058	19,366
143+00	100	0	8	65	11	15	174	9	206	27,435	768	7,055	8,264	19,171
144+00	100	0	4	75	0	22	259	13	308	27,435	790	7,314	8,572	18,863
145+00	100	6	0	62	11	0	254	0	318	27,446	790	7,568	8,890	18,556
146+00	100	17	0	58	43	0	222	0	278	27,489	790	7,790	9,168	18,321
147+00	100	32	0	76	91	0	248	0	310	27,580	790	8,038	9,478	18,102
148+00	100	12	0	73	81	0	276	0	345	27,661	790	8,314	9,823	17,838
149+00	100	32	0	65	81	0	256	0	320	27,742	790	8,570	10,143	17,599
150+00	100	40	0	40	133	0	194	0	243	27,875	790	8,764	10,386	17,489
151+00	100	22	0	92	115	0	244	0	305	27,990	790	9,008	10,691	17,299
152+00	100	16	0	68	70	0	296	0	370	28,060	790	9,304	11,061	16,999
153+00	100	12	0	99	52	0	309	0	386	28,112	790	9,613	11,447	16,665
154+00	100	16	0	101	52	0	370	0	463	28,164	790	9,983	11,910	16,254
155+00	100	27	0	85	80	0	344	0	430	28,244	790	10,327	12,340	15,904
156+00	100	26	0	83	98	0	311	0	389	28,342	790	10,638	12,729	15,613
157+00	100	26	0	87	96	0	315	0	394	28,438	790	10,953	13,123	15,315
158+00	100	30	0	117	104	0	378	0	473	28,542	790	11,331	13,596	14,946
159+00	100	26	0	119	104	0	437	0	546	28,646	790	11,768	14,142	14,504
160+00	100	17	0	121	80	0	444	0	555	28,726	790	12,212	14,697	14,029
161+00	100	16	0	116	61	0	439	0	549	28,787	790	12,651	15,246	13,541
162+00	100	8	0	118	44	0	433	0	541	28,831	790	13,084	15,787	13,044
162+75	75	5	0	135	18	0	351	0	439	28,849	790	13,435	16,226	12,623
163+00	25	5	0	137	5	0	126	0	158	28,854	790	13,561	16,384	12,470
164+00	100	13	0	131	33	0	496	0	620	28,887	790	14,057	17,004	11,883
165+00	100	75	0	60	163	0	354	0	443	29,050	790	14,411	17,447	11,603
166+00	100	69	0	60	267	0	222	0	278	29,317	790	14,633	17,725	11,592
167+00	100	46	0	56	213	0	215	0	269	29,530	790	14,848	17,994	11,536
168+00	100	39	0	49	157	0	194	0	243	29,687	790	15,042	18,237	11,450
169+00	100	27	0	46	122	0	176	0	220	29,809	790	15,218	18,457	11,352
170+00	100	13	0	60	74	0	196	0	245	29,883	790	15,414	18,702	11,181
171+00	100	16	4	63	54	7	228	4	280	29,937	797	15,642	18,982	10,955
172+00	100	29	6	59	83	19	226	11	269	30,020	816	15,868	19,251	10,769
173+00	100	45	0	54	137	0	209	0	261	30,157	816	16,077	19,512	10,645
174+00	100	63	0	58	200	0	207	0	259	30,357	816	16,284	19,771	10,586
175+00	100	61	0	54	230	0	207	0	259	30,587	816	16,491	20,030	10,557
176+00	100	33	6	58	174	11	207	7	250	30,761	827	16,698	20,280	10,481
177+00	100	28	5	47	113	20	194	12	228	30,874	847	16,892	20,508	10,366
178+00	100	54	0	16	152	0	117	0	146	31,026	847	17,009	20,654	10,372
178+50	50	27	0	36	76	0	49	0	61	31,102	847	17,058	20,715	10,387
179+00	50	53	0	22	73	0	53	0	66	31,175	847	17,111	20,781	10,394
180+00	100	80	0	17	246	0	72	0	90	31,421	847	17,183	20,871	10,550

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - MARSH EXCAVATION	MARSH EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME
4 - REDUCED MARSH IN FILL	(MARSH EXCAVATION)*0.60: THAT CAN BE USED IN FILL
5 - FILL (1.25)	(UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
6 - MASS ORDINATE	CUT - FILL (1.25)

EARTHWORK-MAINLINE CONTINUED

181+00	100	116	0	15	363	0	59	0	74	31,784	847	17,242	20,945	10,839
182+00	100	127	0	16	451	0	57	0	71	32,235	847	17,299	21,016	11,219
183+00	100	99	0	19	419	0	65	0	81	32,654	847	17,364	21,097	11,557
184+00	100	72	0	32	317	0	94	0	118	32,971	847	17,458	21,215	11,756
185+00	100	89	0	32	298	0	119	0	149	33,269	847	17,577	21,364	11,905
186+00	100	125	0	34	397	0	122	0	153	33,666	847	17,699	21,517	12,149
187+00	100	123	0	25	459	0	109	0	136	34,125	847	17,808	21,653	12,472
188+00	100	115	0	12	441	0	69	0	86	34,566	847	17,877	21,739	12,827
189+00	100	99	0	11	396	0	43	0	54	34,962	847	17,920	21,793	13,169
190+00	100	87	0	8	344	0	35	0	44	35,306	847	17,955	21,837	13,469
191+00	100	63	0	21	278	0	54	0	68	35,584	847	18,009	21,905	13,679
191+63	63	69	0	0	154	0	25	0	31	35,738	847	18,034	21,936	13,802
		MAINLINE COLUMN SUBTOTALS =			35,738	847	18,034	506	21,936	35,738	847	18,034	21,936	13,802

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - MARSH EXCAVATION	MARSH EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME
4 - REDUCED MARSH IN FILL	(MARSH EXCAVATION)*0.60: THAT CAN BE USED IN FILL
5 - FILL (1.25)	(UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
6 - MASS ORDINATE	CUT - FILL (1.25)

9

9

EARTHWORK - FORMICA RD

STATION	DISTANCE (LF)	AREA (SF) CUT	AREA (SF) MARSH EXCAVATION	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	INCREMENTAL VOLUME (CY) MARSH EXCAVATION NOTE 2	INCREMENTAL VOLUME (CY) FILL NOTE 3	INCREMENTAL VOLUME (CY) REDUCED MARSH IN FILL (0.60) NOTE 4	INCREMENTAL VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) CUT (1.00) NOTE 1	CUMULATIVE VOLUME (CY) MARSH EXCAVATION NOTE 2	CUMULATIVE VOLUME (CY) FILL NOTE 3	CUMULATIVE VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) MASS ORDINATE NOTE 6
10'B'+17	0	34	0	88	0	0	0	0	0	0	0	0	0	0
10'B'+35	18	96	36	66	43	12	50	7	54	43	12	50	54	-11
10'B'+39	5	97	40	53	17	7	11	4	9	60	19	61	63	-3
11'B'+00	61	32	0	2	145	0	62	0	78	205	19	123	140	65
11'B'+50	50	41	0	3	68	0	5	0	6	273	19	128	146	127
12'B'+00	50	55	0	0	89	0	3	0	4	362	19	131	150	212
12'B'+50	50	60	0	0	106	0	0	0	0	468	19	131	150	318
12'B'+71	21	0	0	0	23	0	0	0	0	491	19	131	150	341
			COLUMN SUBTOTALS =		491	19	131	11	150	491	19	131	150	341

EARTHWORK - FOREST AVE

STATION	DISTANCE (LF)	AREA (SF) CUT	AREA (SF) MARSH EXCAVATION	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	INCREMENTAL VOLUME (CY) MARSH EXCAVATION NOTE 2	INCREMENTAL VOLUME (CY) FILL NOTE 3	INCREMENTAL VOLUME (CY) REDUCED MARSH IN FILL (0.60) NOTE 4	INCREMENTAL VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) CUT (1.00) NOTE 1	CUMULATIVE VOLUME (CY) MARSH EXCAVATION NOTE 2	CUMULATIVE VOLUME (CY) FILL NOTE 3	CUMULATIVE VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) MASS ORDINATE NOTE 6
10'C'+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10'C'+50	50	21	0	9	19	0	8	0	10	19	0	8	10	9
11'C'+00	50	8	31	36	27	29	42	17	31	46	29	50	41	5
11'C'+50	50	38	46	244	43	71	259	43	270	89	100	309	311	-222
11'C'+55	5	111	43	121	171	0	33	0	41	260	0	342	353	-93
11'C'+73	18	102	0	0	70	14	40	8	40	330	14	382	393	-63
			COLUMN SUBTOTALS =		330	114	382	68	393	330	14	382	393	-63

EARTHWORK - FORTUNE AVE

STATION	DISTANCE (LF)	AREA (SF) CUT	AREA (SF) MARSH EXCAVATION	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	INCREMENTAL VOLUME (CY) MARSH EXCAVATION NOTE 2	INCREMENTAL VOLUME (CY) FILL NOTE 3	INCREMENTAL VOLUME (CY) REDUCED MARSH IN FILL (0.60) NOTE 4	INCREMENTAL VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) CUT (1.00) NOTE 1	CUMULATIVE VOLUME (CY) MARSH EXCAVATION NOTE 2	CUMULATIVE VOLUME (CY) FILL NOTE 3	CUMULATIVE VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) MASS ORDINATE NOTE 6
11'D'+60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12'D'+00	40	33	13	4	25	10	3	6	-4	25	10	3	-4	29
12'D'+50	50	56	14	17	82	25	19	15	5	107	35	22	1	106
12'D'+69	19	56	42	74	39	20	32	12	25	146	55	54	26	120
12'D'+84	15	75	0	77	37	0	43	0	54	183	55	97	80	103
			COLUMN SUBTOTALS =		183	55	97	33	80	183	55	97	80	103

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - MARSH EXCAVATION	MARSH EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME
4 - REDUCED MARSH IN FILL	(MARSH EXCAVATION)*0.60: THAT CAN BE USED IN FILL
5 - FILL (1.25)	(UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
6 - MASS ORDINATE	CUT - FILL (1.25)

9

9

EARTHWORK - CTH N

STATION	DISTANCE (LF)	AREA (SF) CUT	AREA (SF) MARSH EXCAVATION	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	INCREMENTAL VOLUME (CY) MARSH EXCAVATION NOTE 2	INCREMENTAL VOLUME (CY) FILL NOTE 3	INCREMENTAL VOLUME (CY) REDUCED MARSH IN FILL (0.60) NOTE 4	INCREMENTAL VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) CUT (1.00) NOTE 1	CUMULATIVE VOLUME (CY) MARSH EXCAVATION NOTE 2	CUMULATIVE VOLUME (CY) FILL NOTE 3	CUMULATIVE VOLUME (CY) FILL (1.25) NOTE 5	CUMULATIVE VOLUME (CY) MASS ORDINATE NOTE 6
11'E'+88	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12'E'+00	12	10	0	1	2	0	0	0	0	2	0	0	0	2
12'E'+50	50	14	0	9	22	0	9	0	11	24	0	9	11	13
12'E'+66	16	44	0	19	17	0	8	0	10	41	0	17	21	20
13'E'+00	34	8	0	0	33	0	12	0	15	74	0	29	36	38
13'E'+31	31	22	0	38	17	0	22	0	28	91	0	51	64	27
13'E'+50	19	14	0	21	12	0	20	0	25	103	0	71	89	14
14'E'+00	50	6	0	4	19	0	23	0	29	122	0	94	118	5
14'E'+50	50	0	0	0	6	0	4	0	5	128	0	98	123	5
MAINLINE COLUMN SUBTOTALS =		128	0	98	0	123				128	0	98	123	5

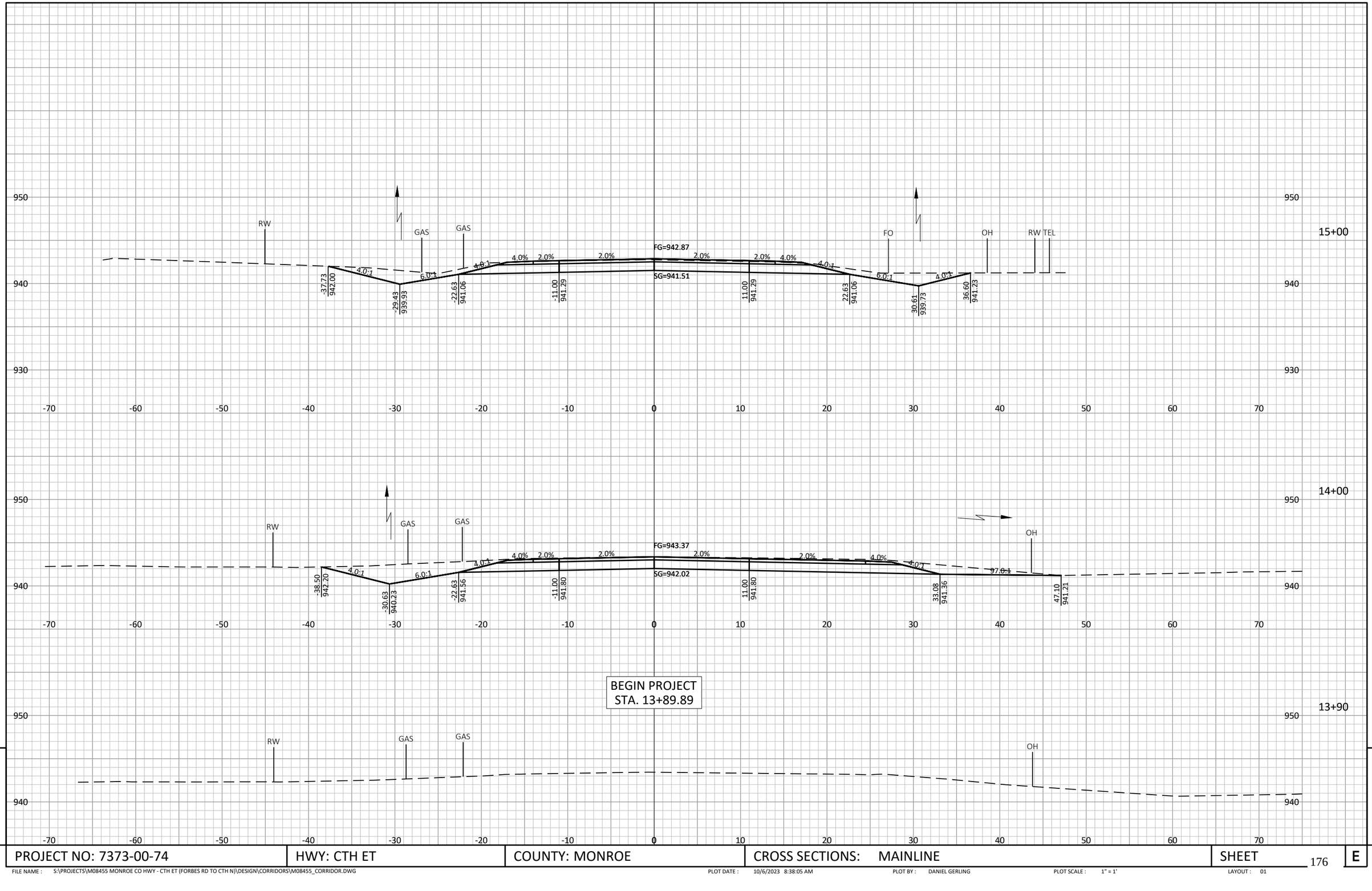
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - MARSH EXCAVATION	MARSH EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME
4 - REDUCED MARSH IN FILL	(MARSH EXCAVATION)*0.60: THAT CAN BE USED IN FILL
5 - FILL (1.25)	(UNEXPANDED FILL - REDUCED MARSH IN FILL)*1.25
6 - MASS ORDINATE	CUT - FILL (1.25)

9

9

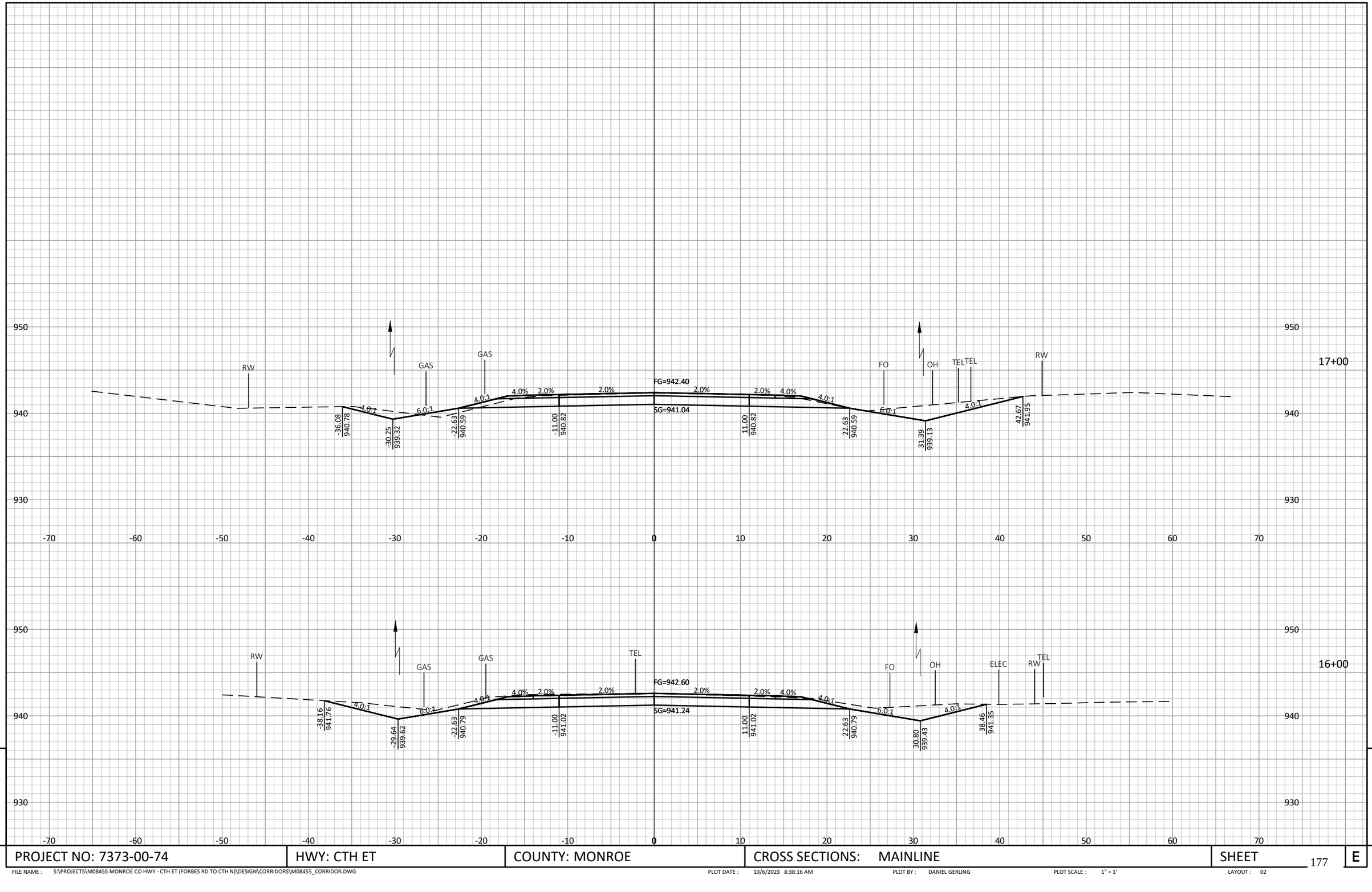
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	EARTHWORK	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\SHEETSPLAN\DETAILS\M08455_EARTHWORK.DWG PLOT DATE : 10/16/2023 10:17:27 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : CTH N



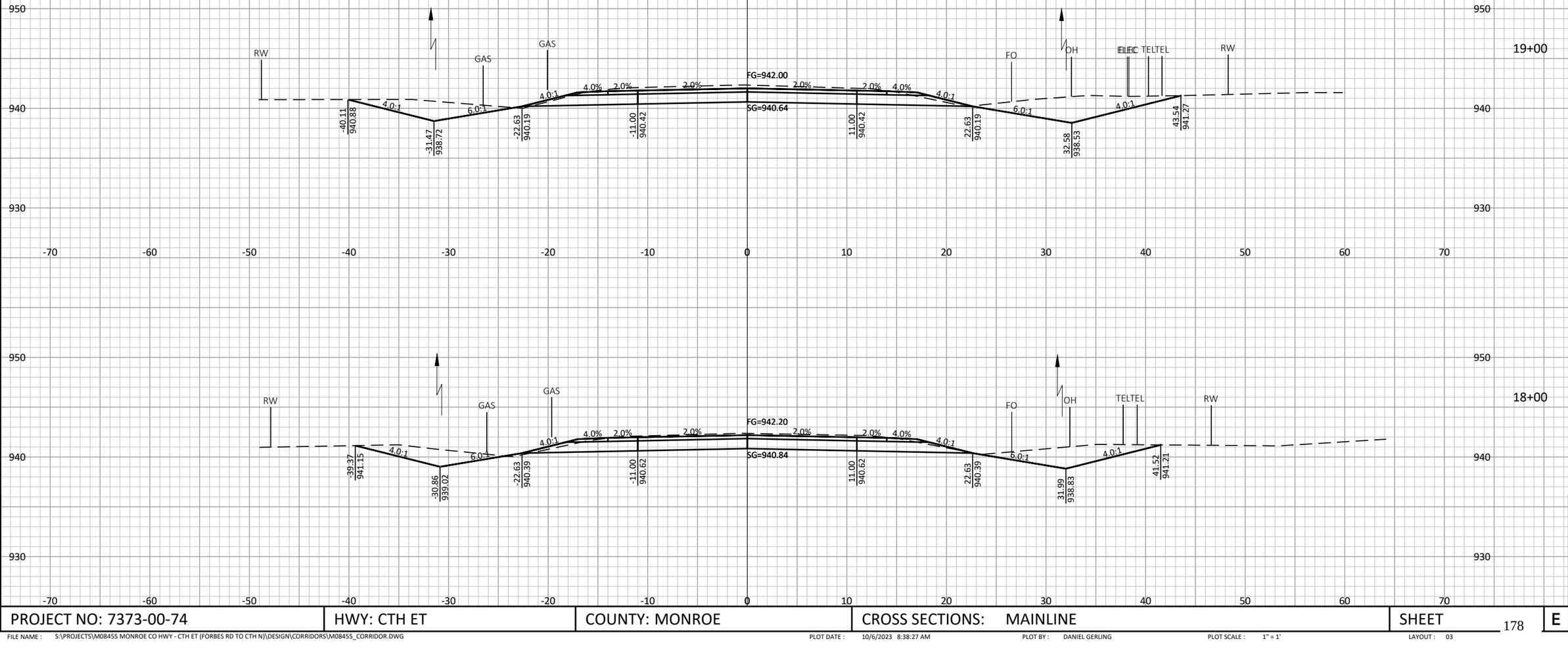
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:38:05 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 01



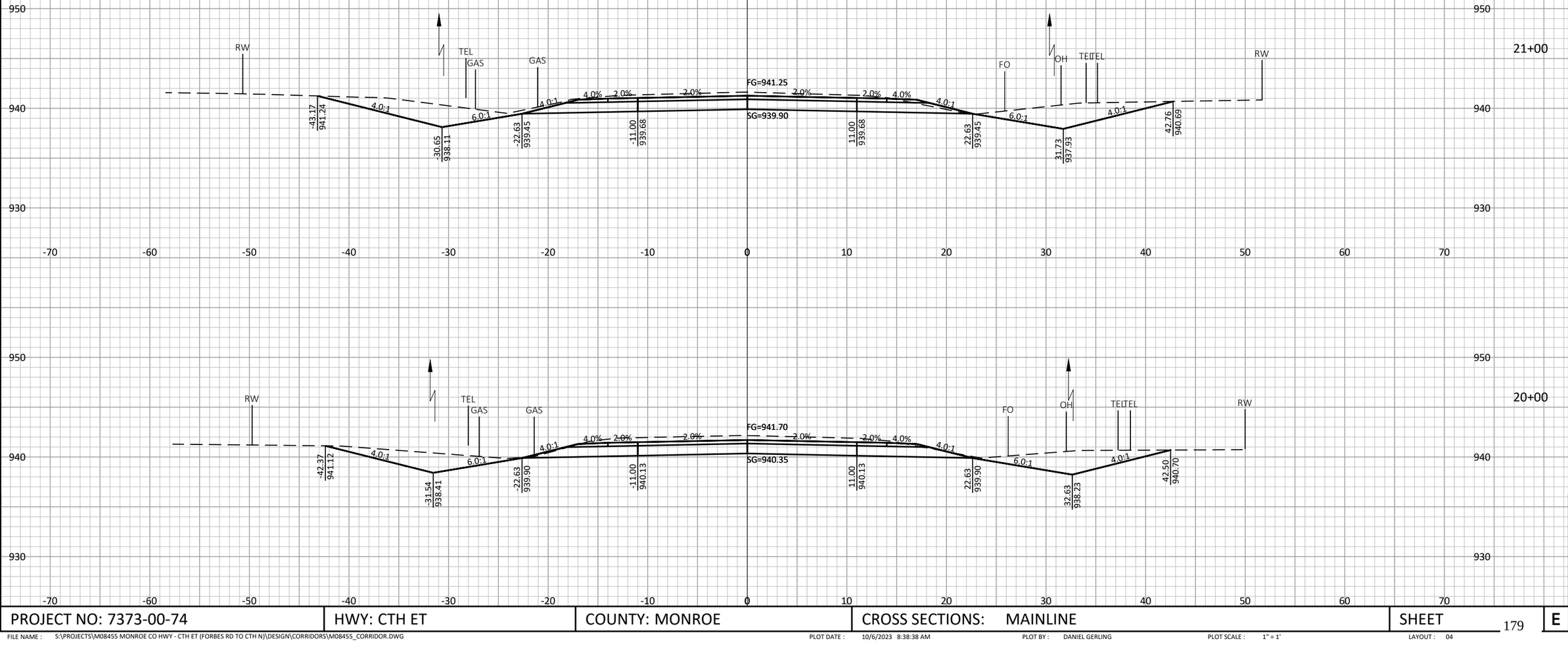
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:38:16 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 02



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 178	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:38:27 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 03

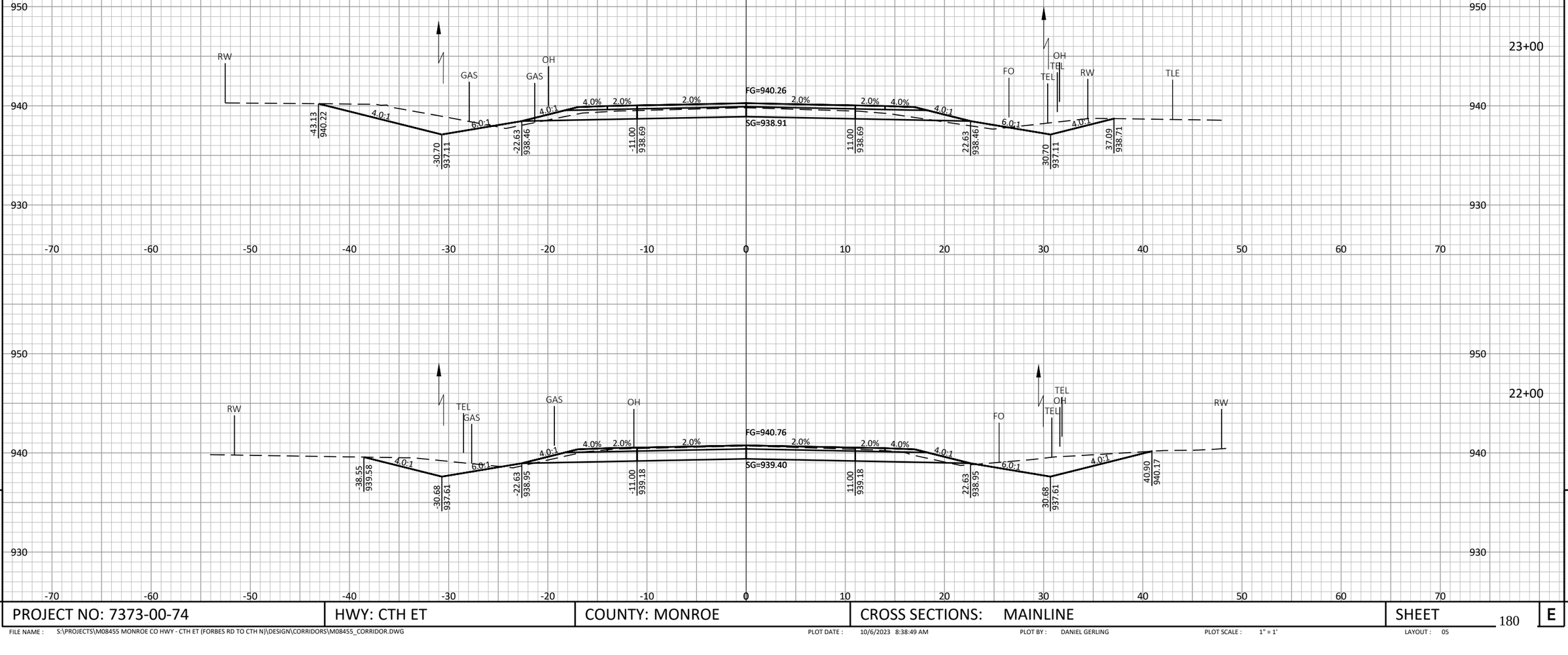


9

9

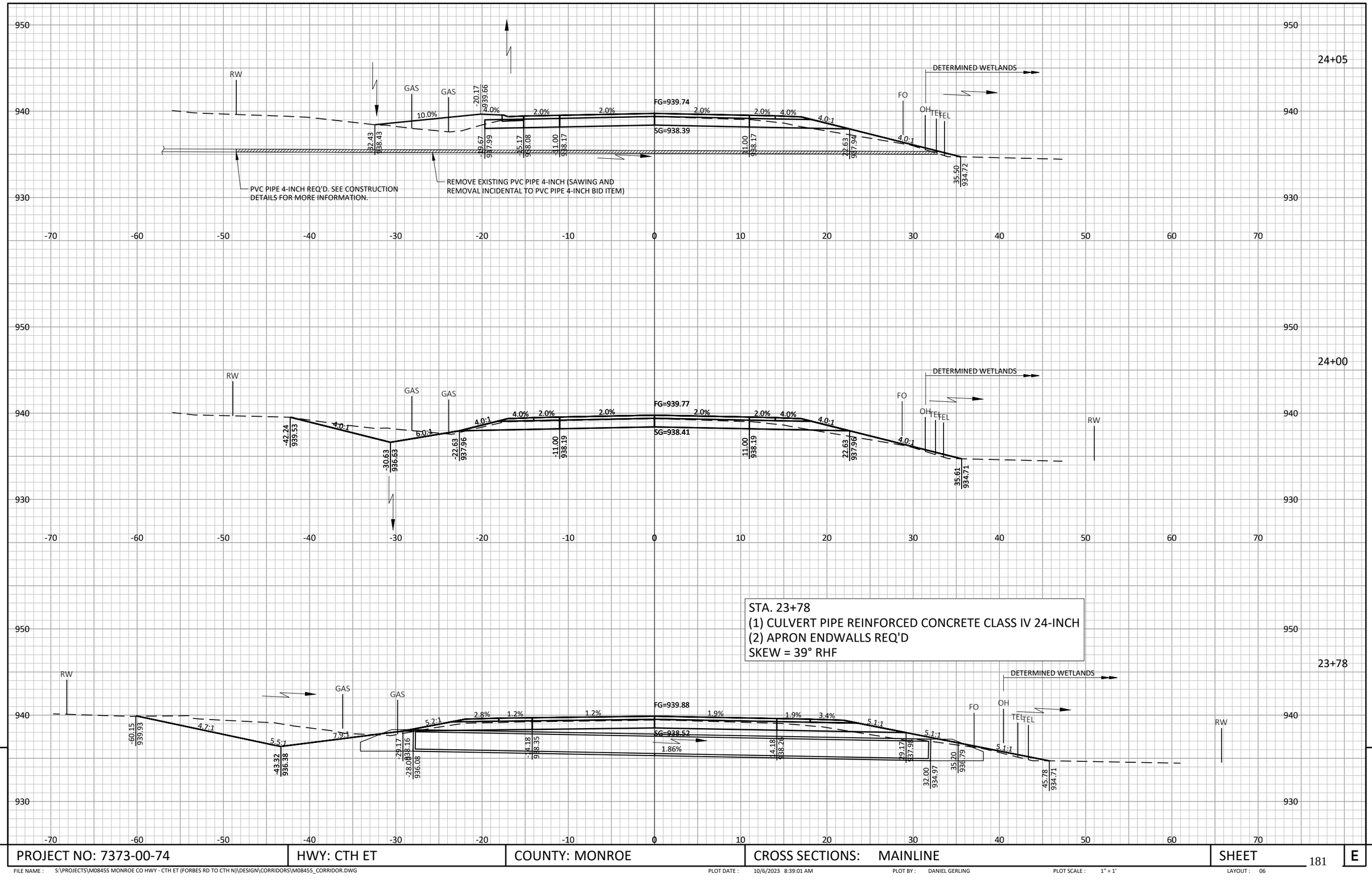
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:38:38 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 04



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 180 E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:38:49 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 05



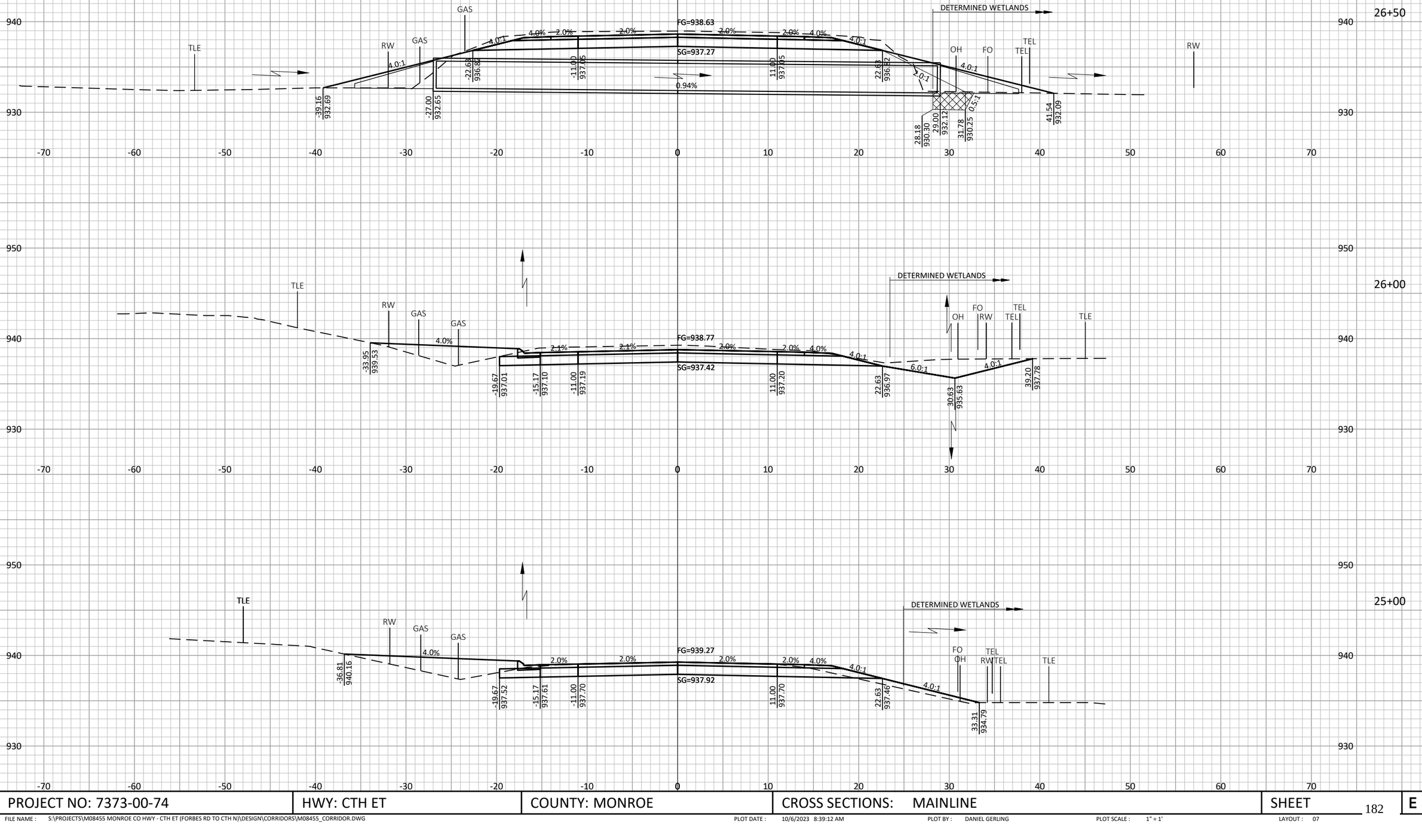
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:39:01 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 06

STA. 26+50
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 36-INCH 4 TO 1 REQ'D
SKEW = 0°

LEGEND

LIMITS OF EXCAVATION MARSH



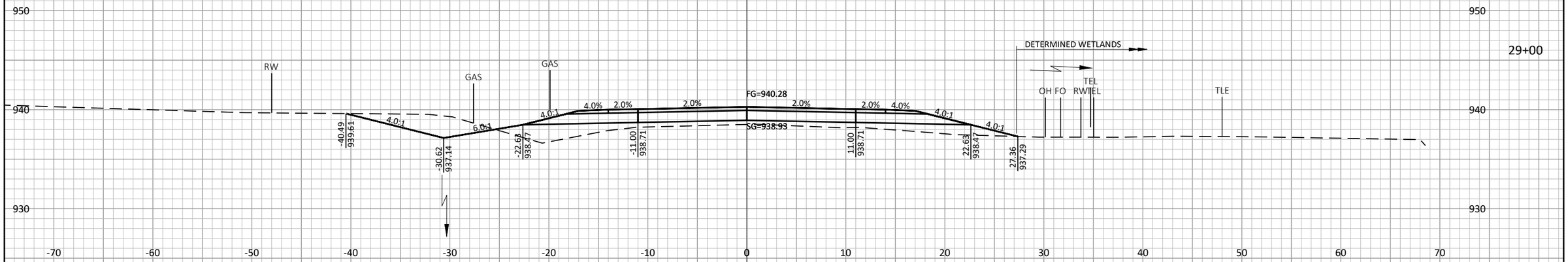
9

9

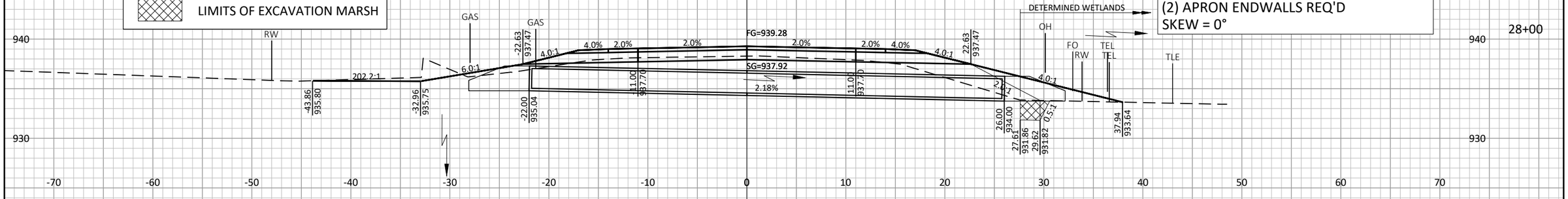
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:39:12 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 07

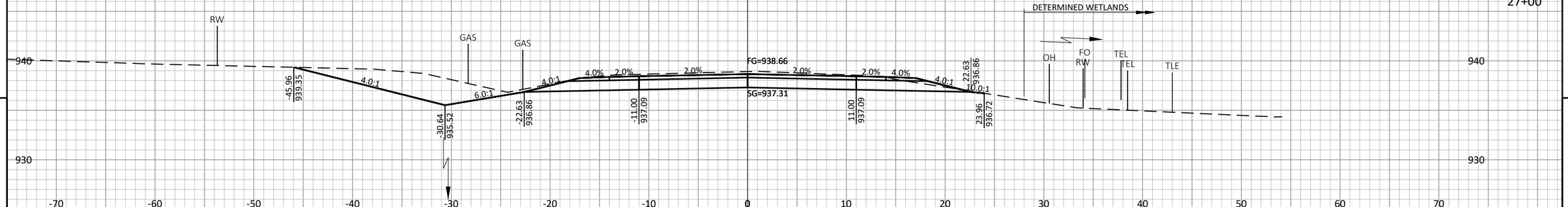
29+00



28+00



27+00



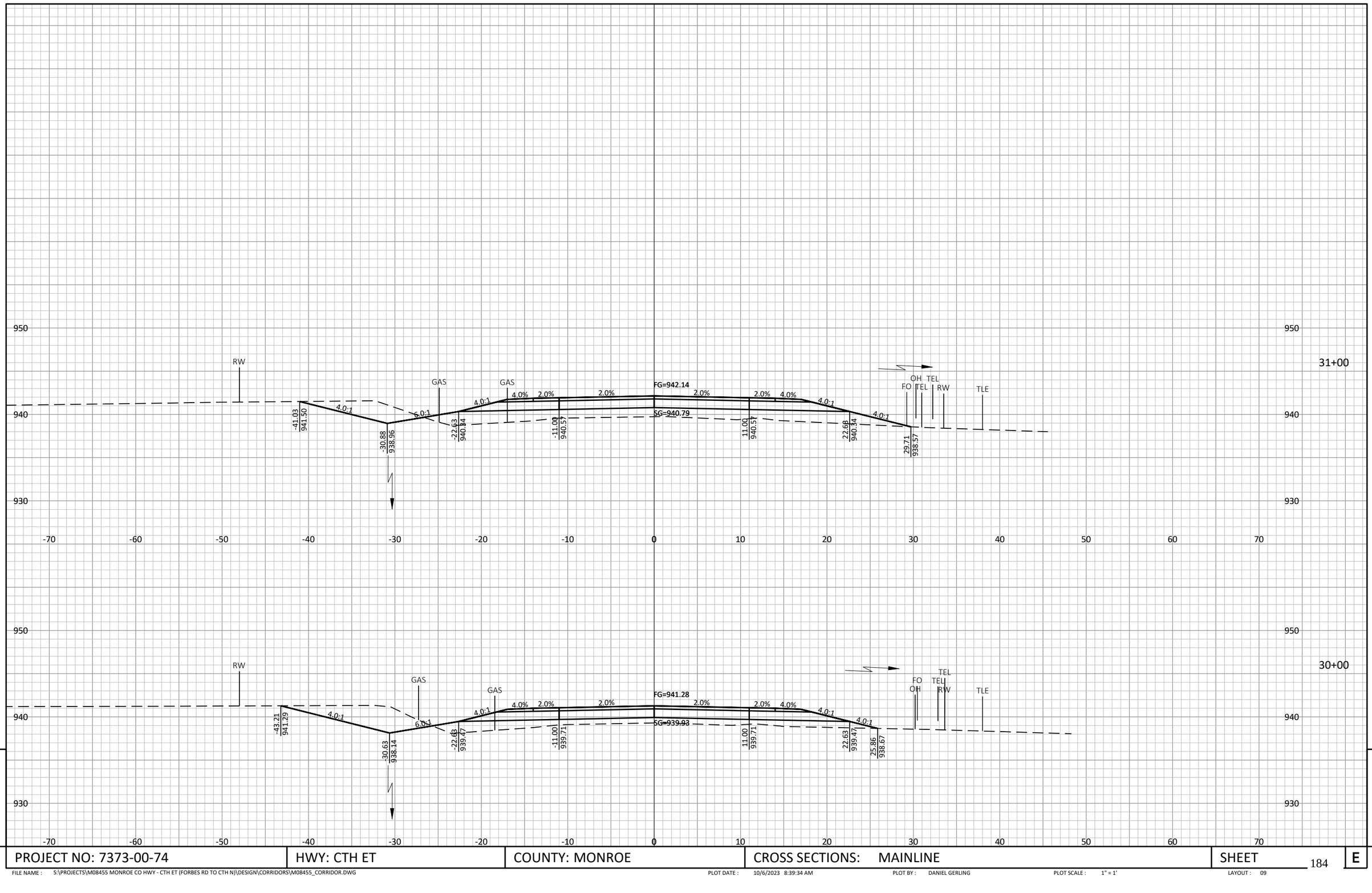
LEGEND

LIMITS OF EXCAVATION MARSH

STA. 28+00
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°

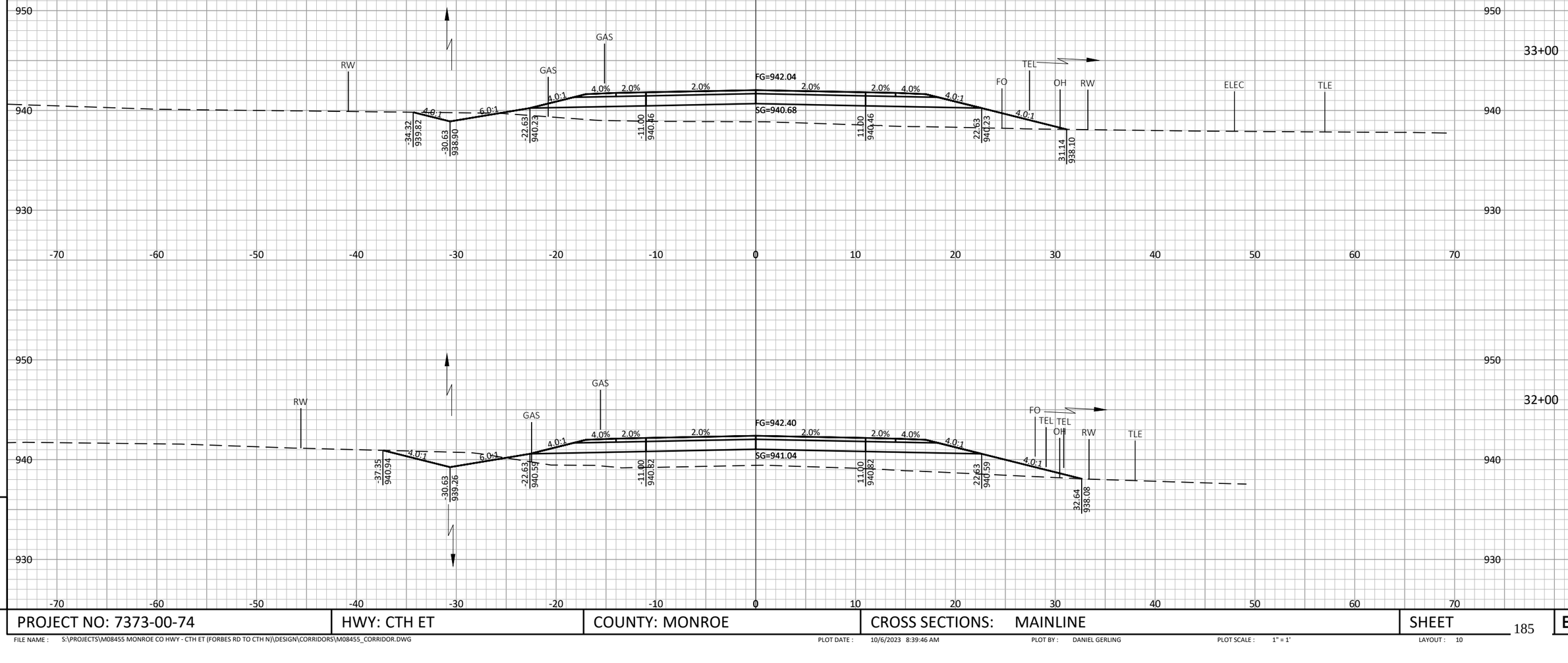
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:39:23 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 08



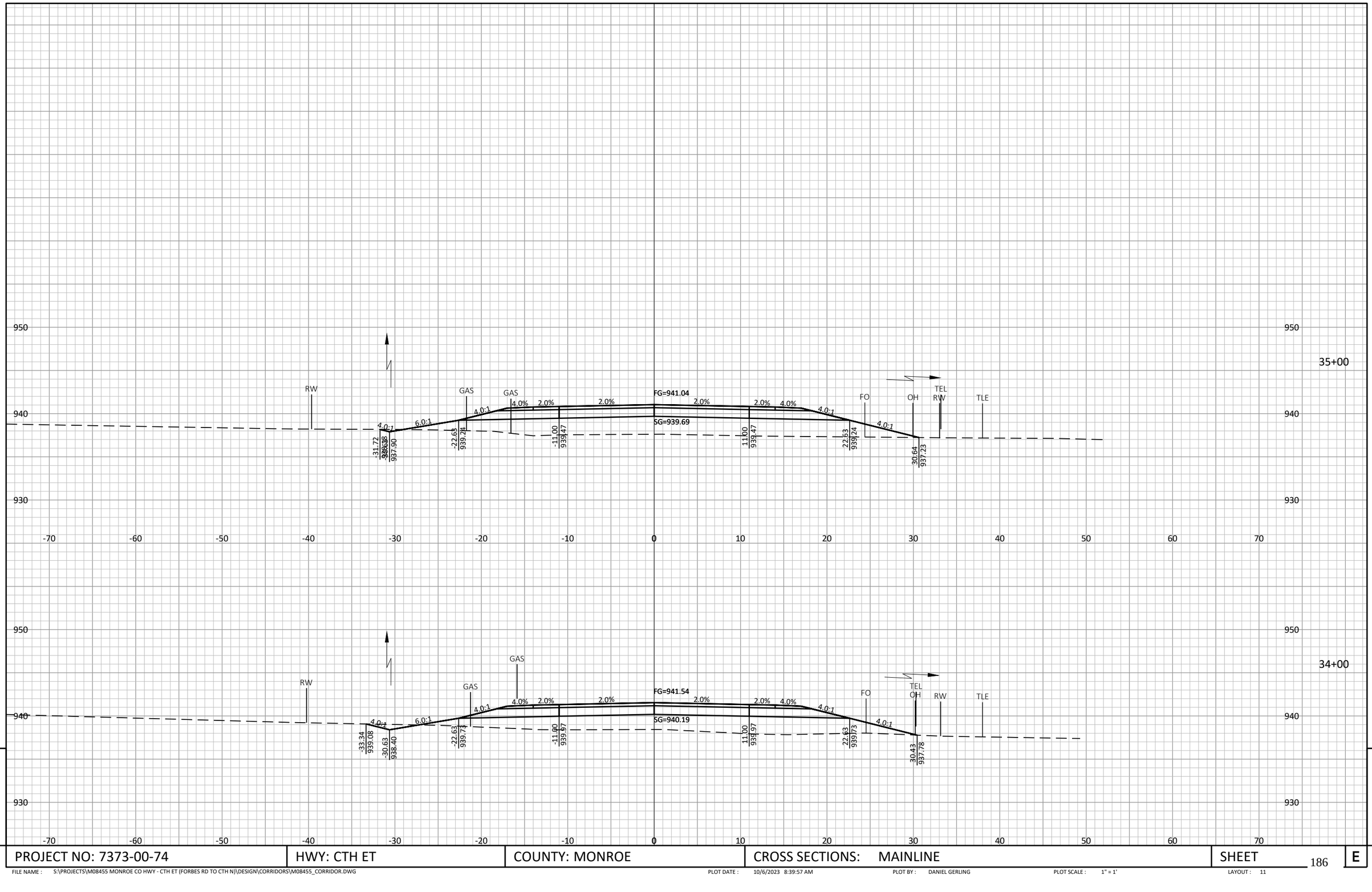
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:39:34 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 09



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:39:46 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 10

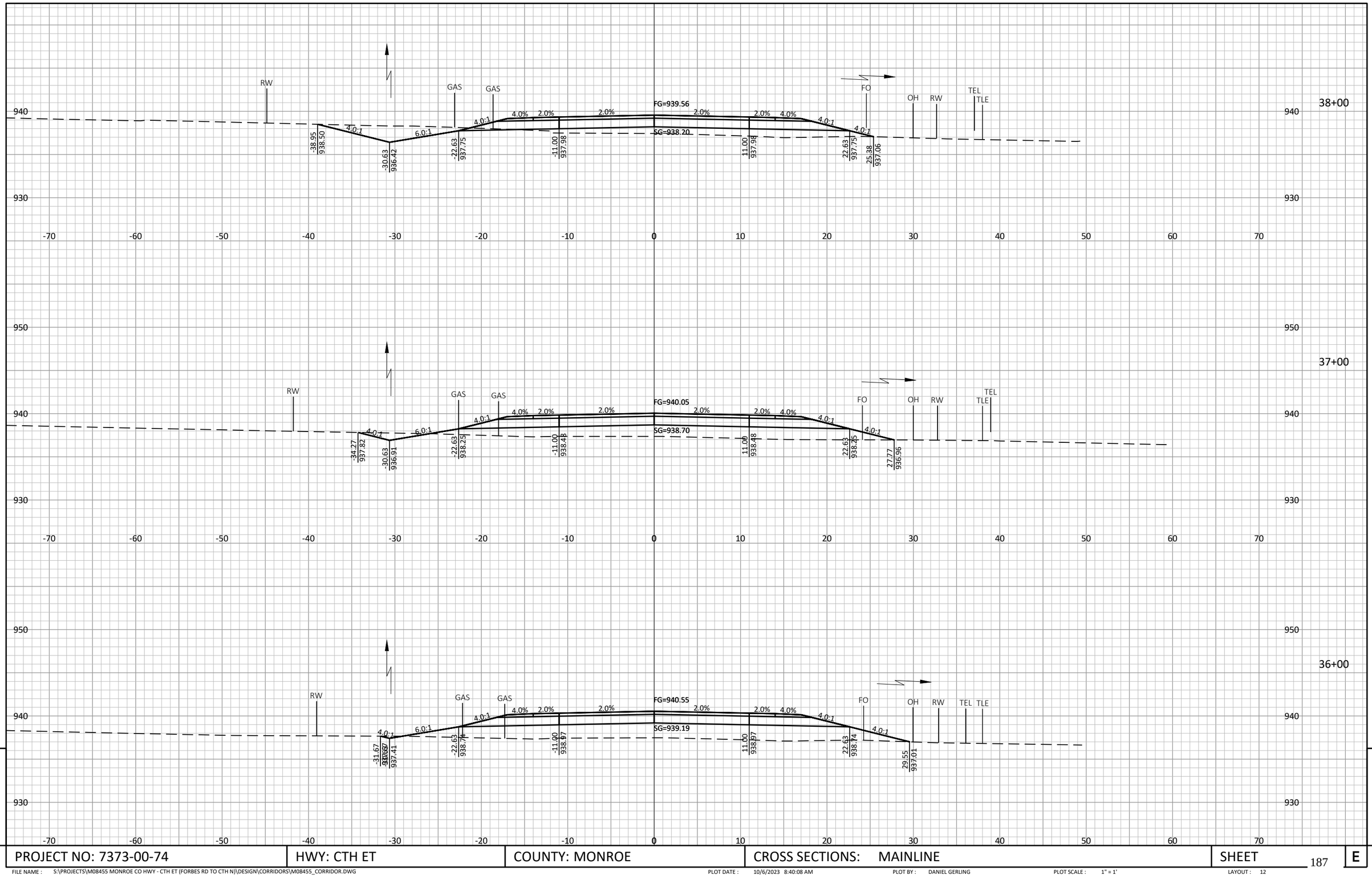


9

9

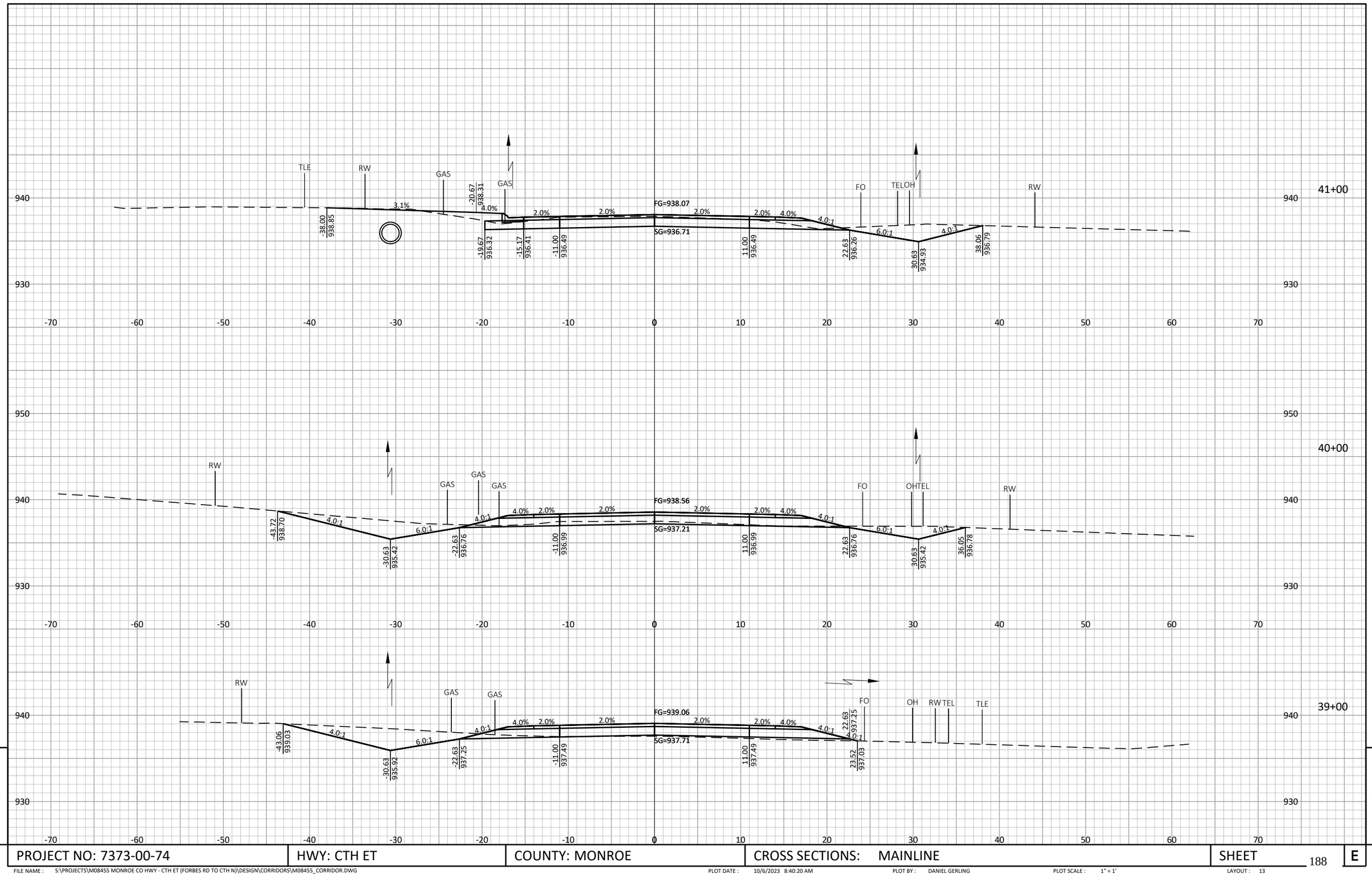
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:39:57 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 11



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:40:08 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 12

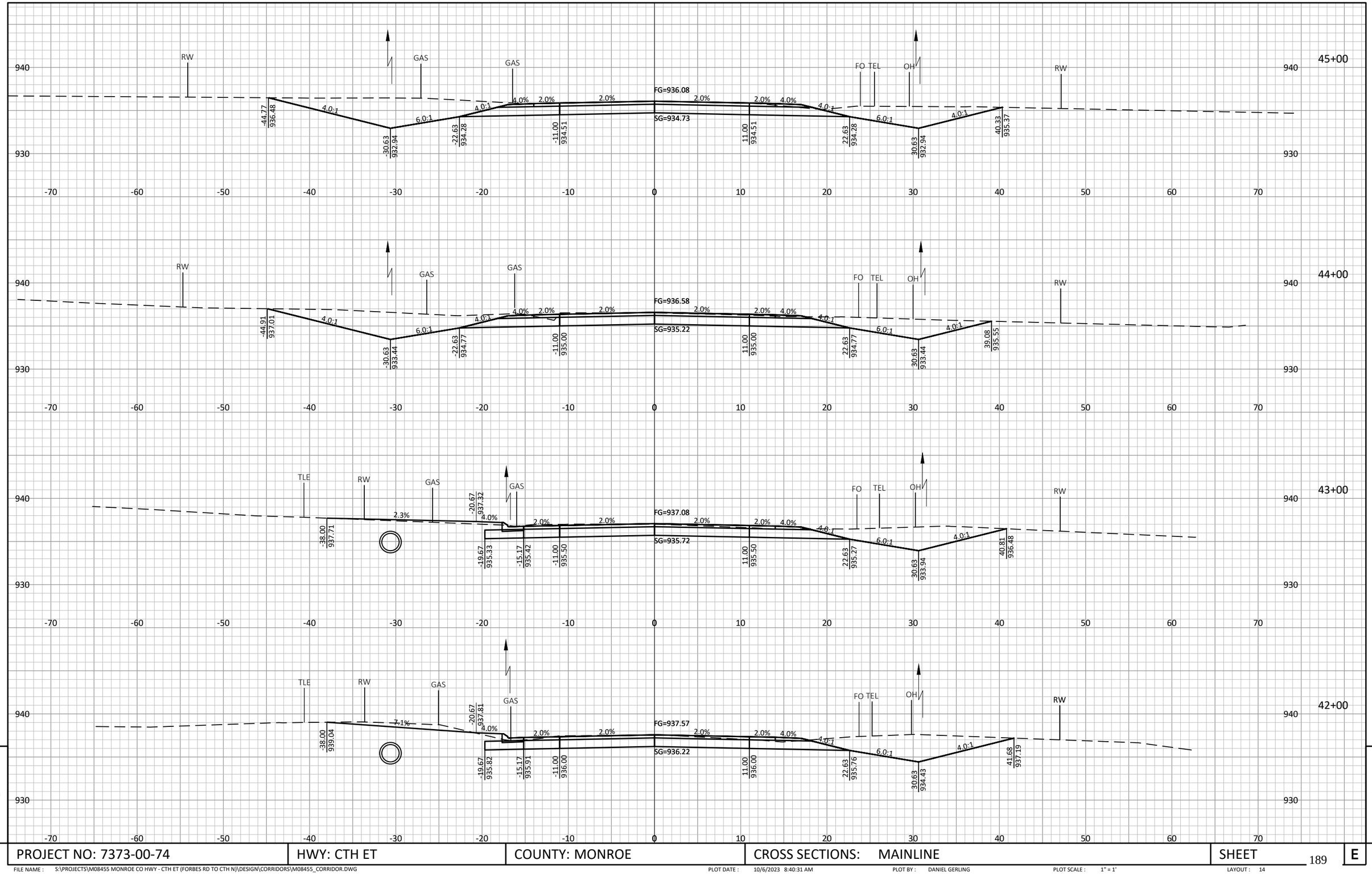


9

9

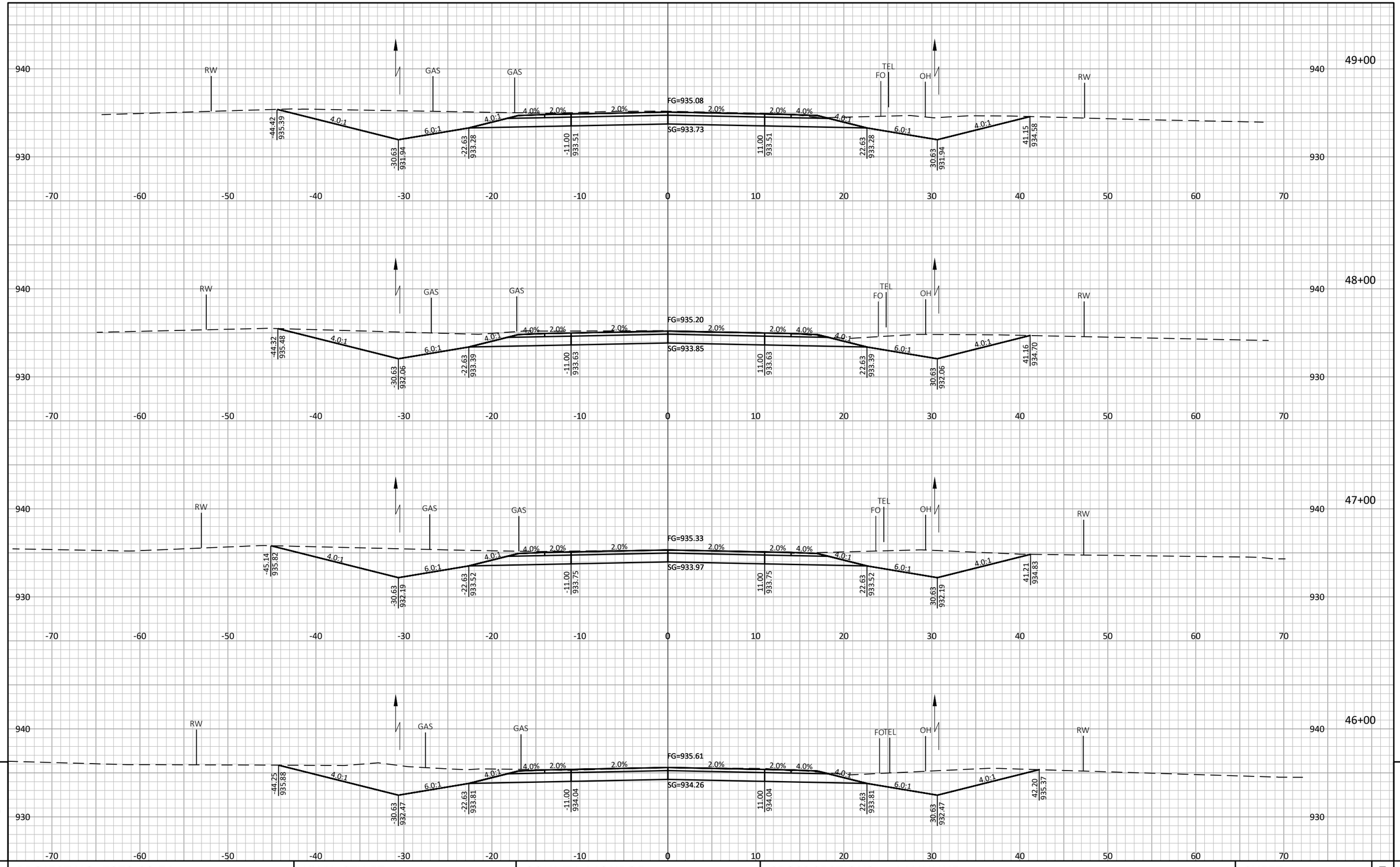
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:40:20 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 13



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET

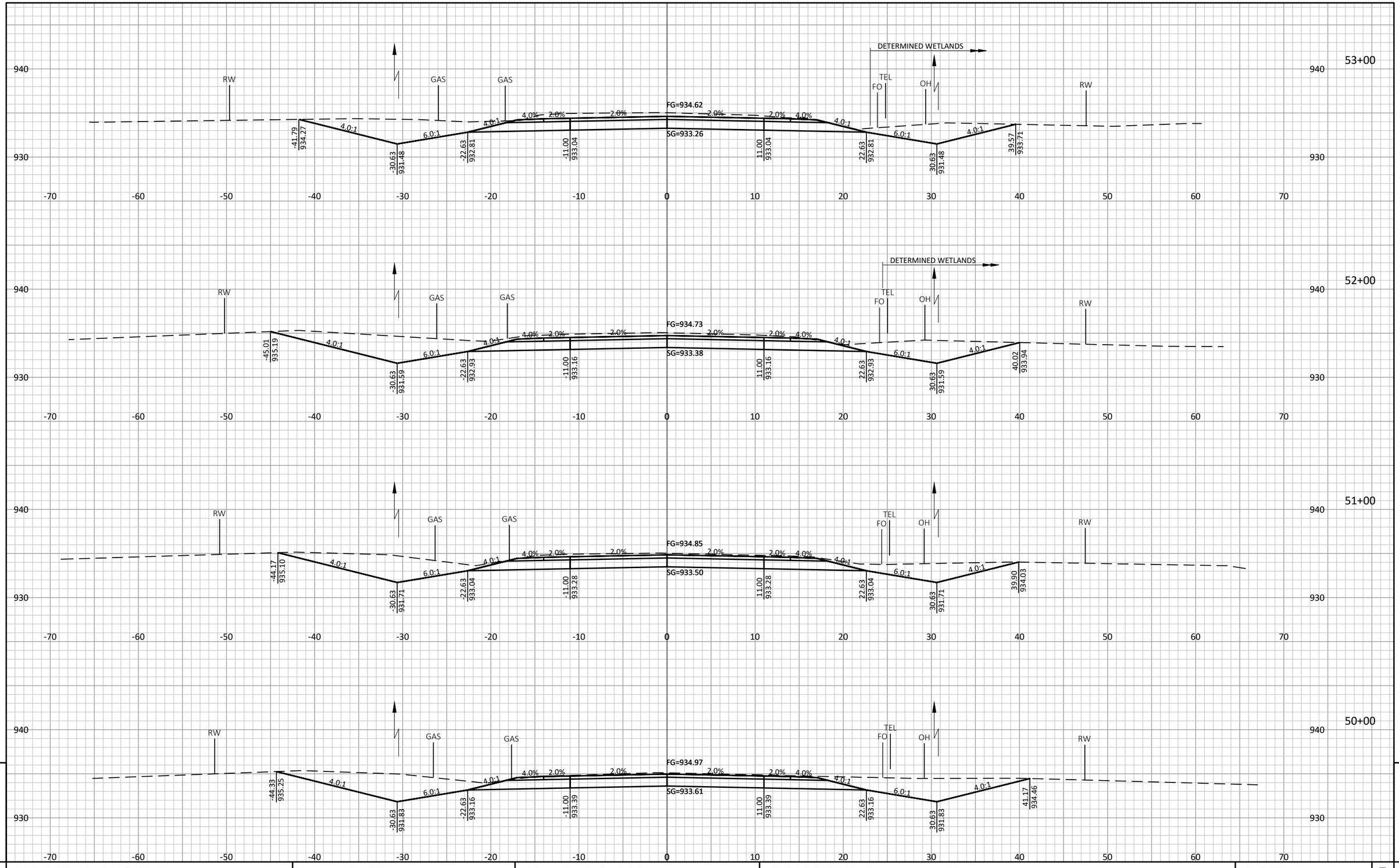
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:40:31 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 14



9 9

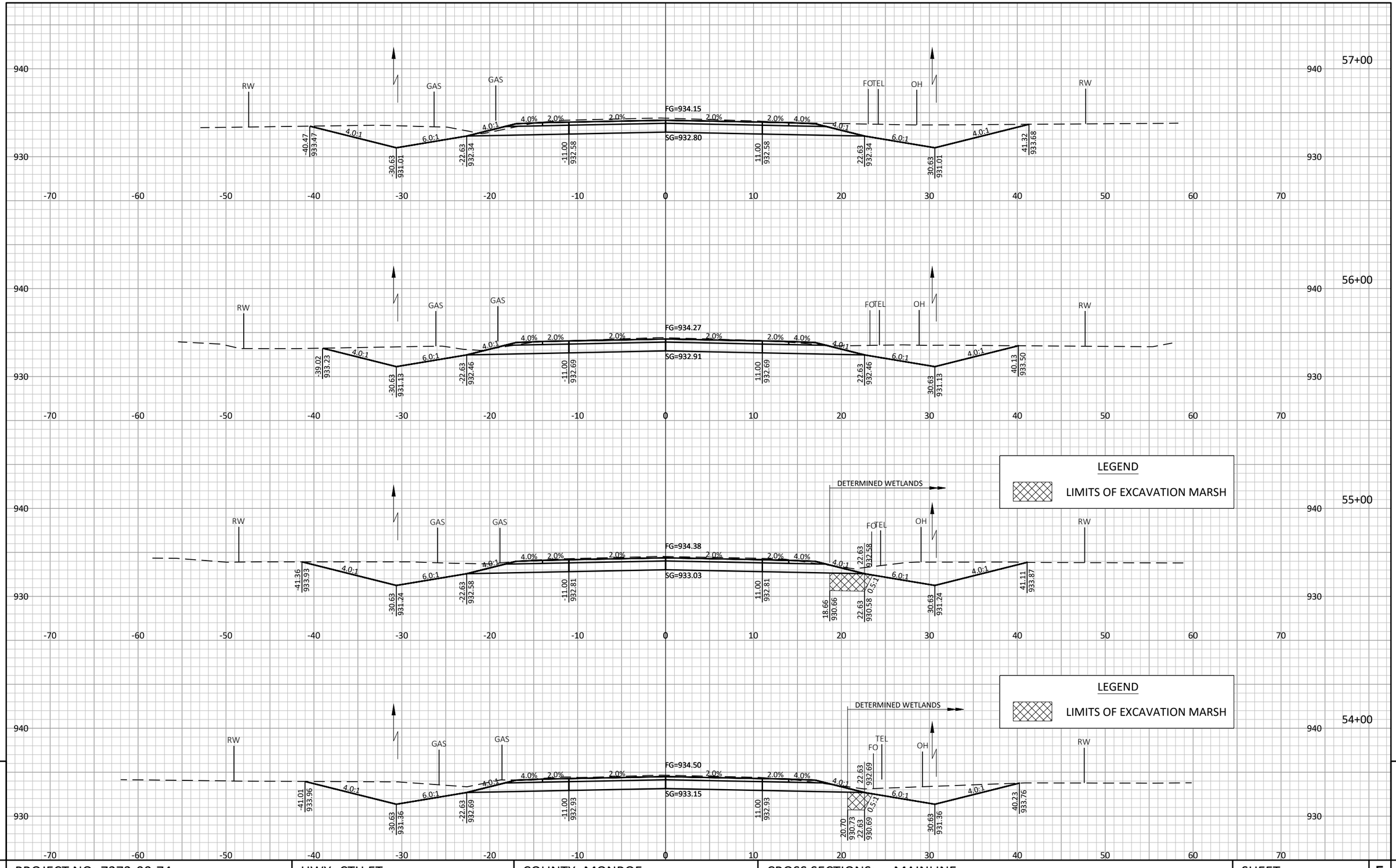
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 190	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:40:42 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 15



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 191 E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:40:53 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 16

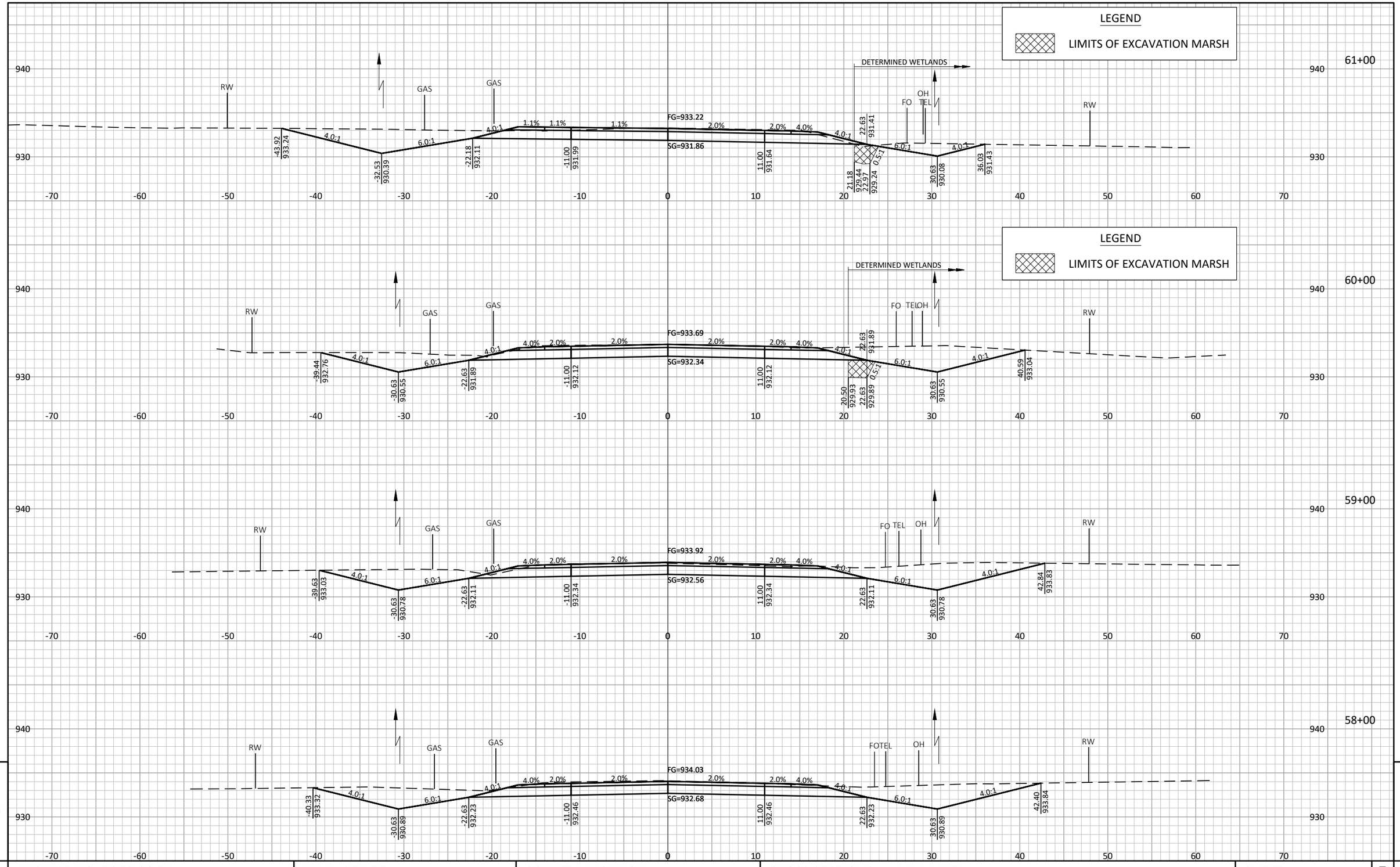


9

9

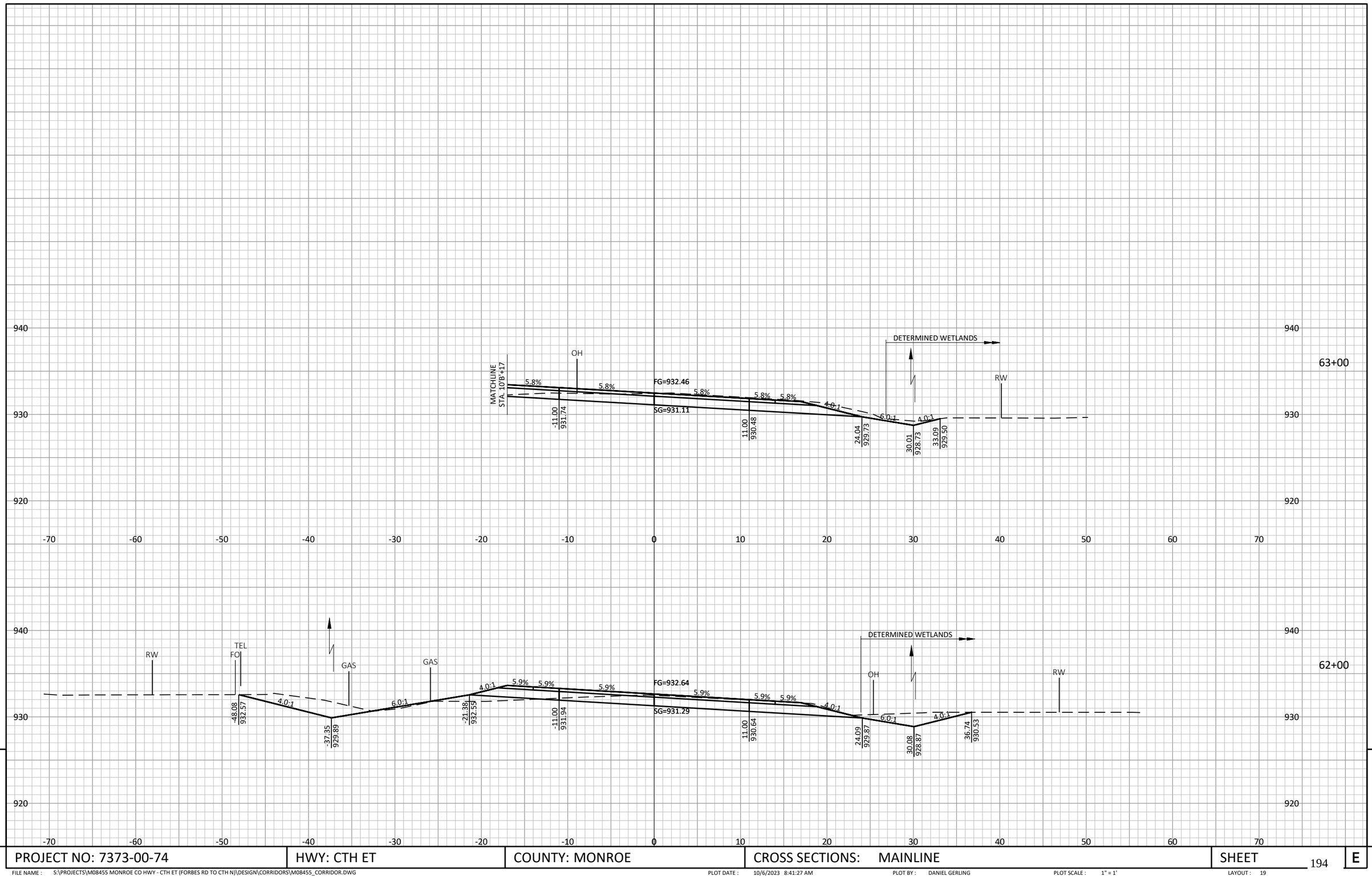
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:41:05 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 17



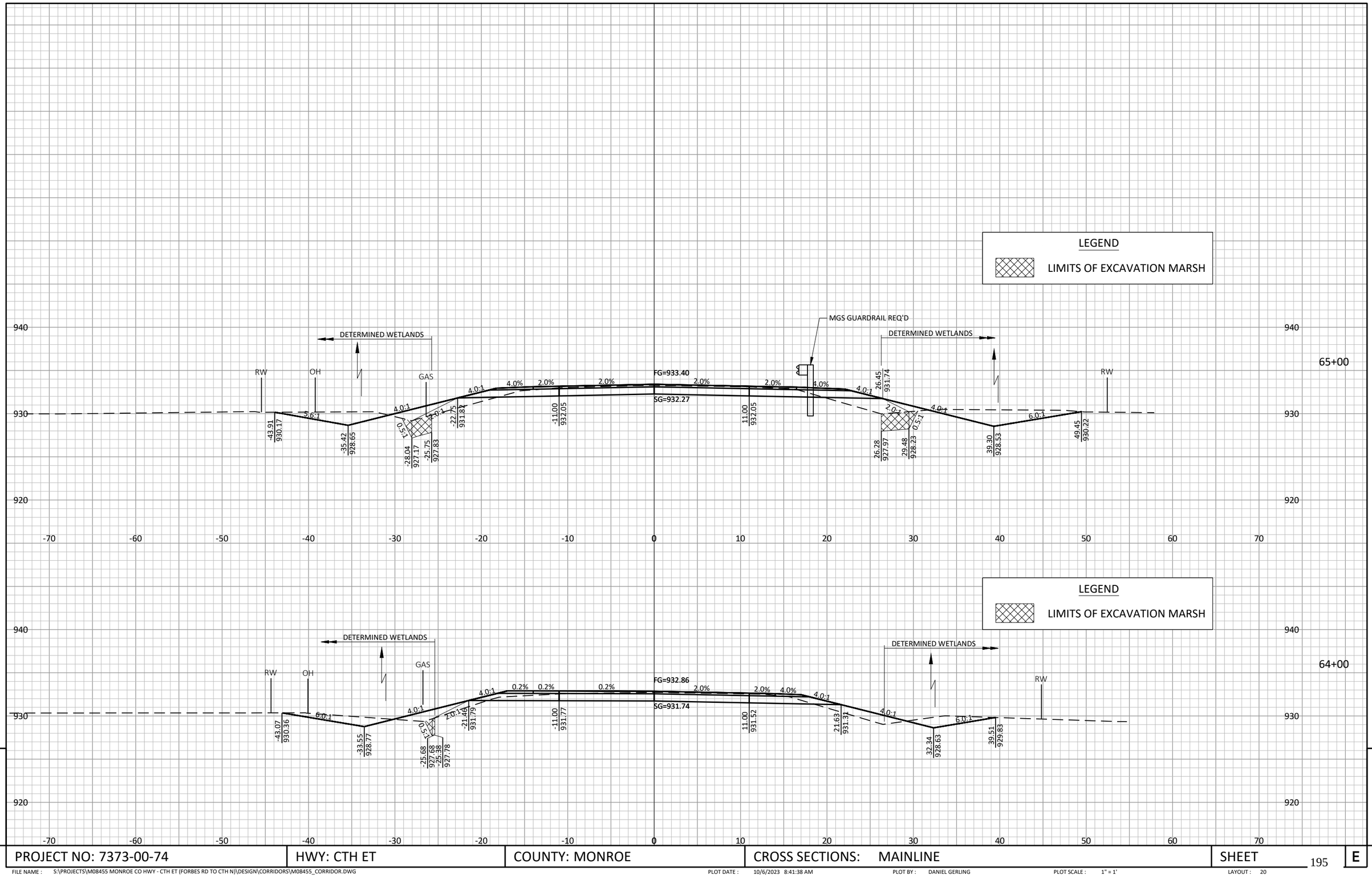
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 193	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:41:16 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 18



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:41:27 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 19



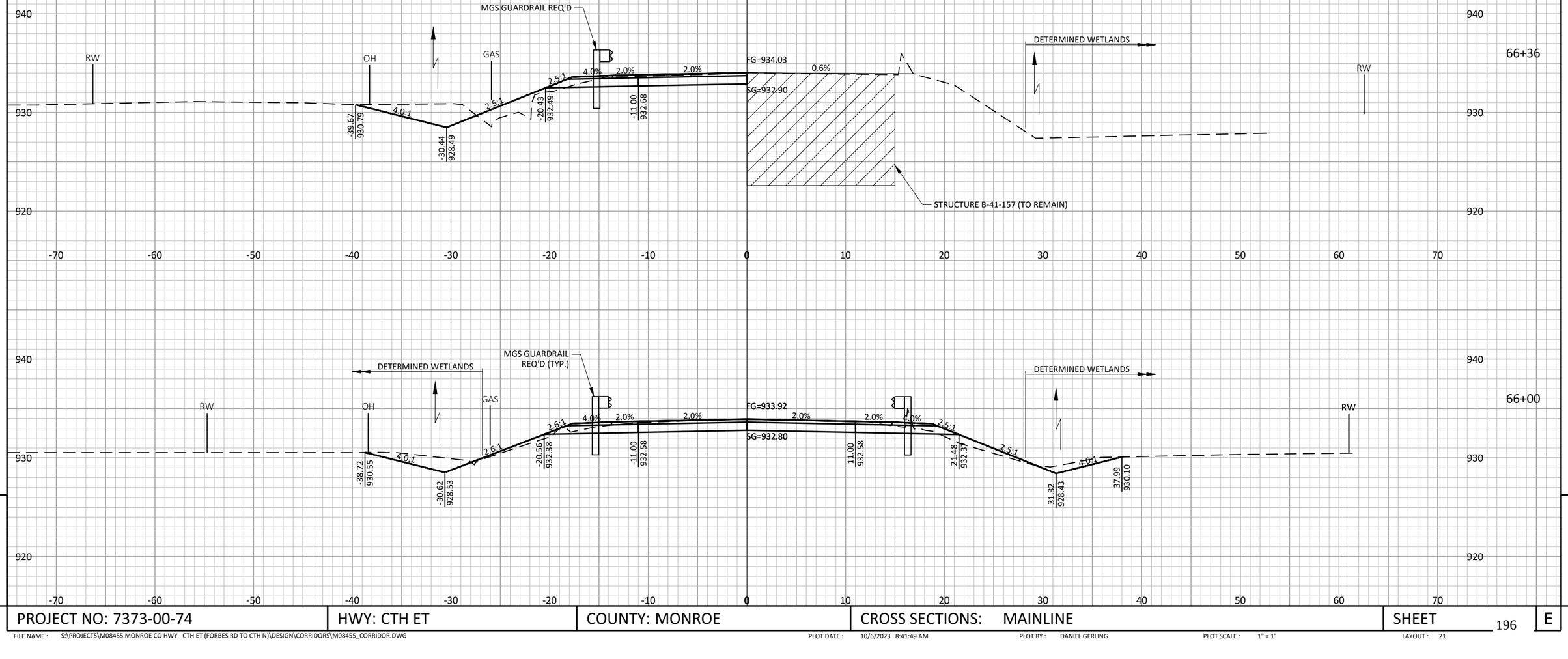
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:41:38 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 20

STRUCTURE B-41-157
MATCH EXISTING

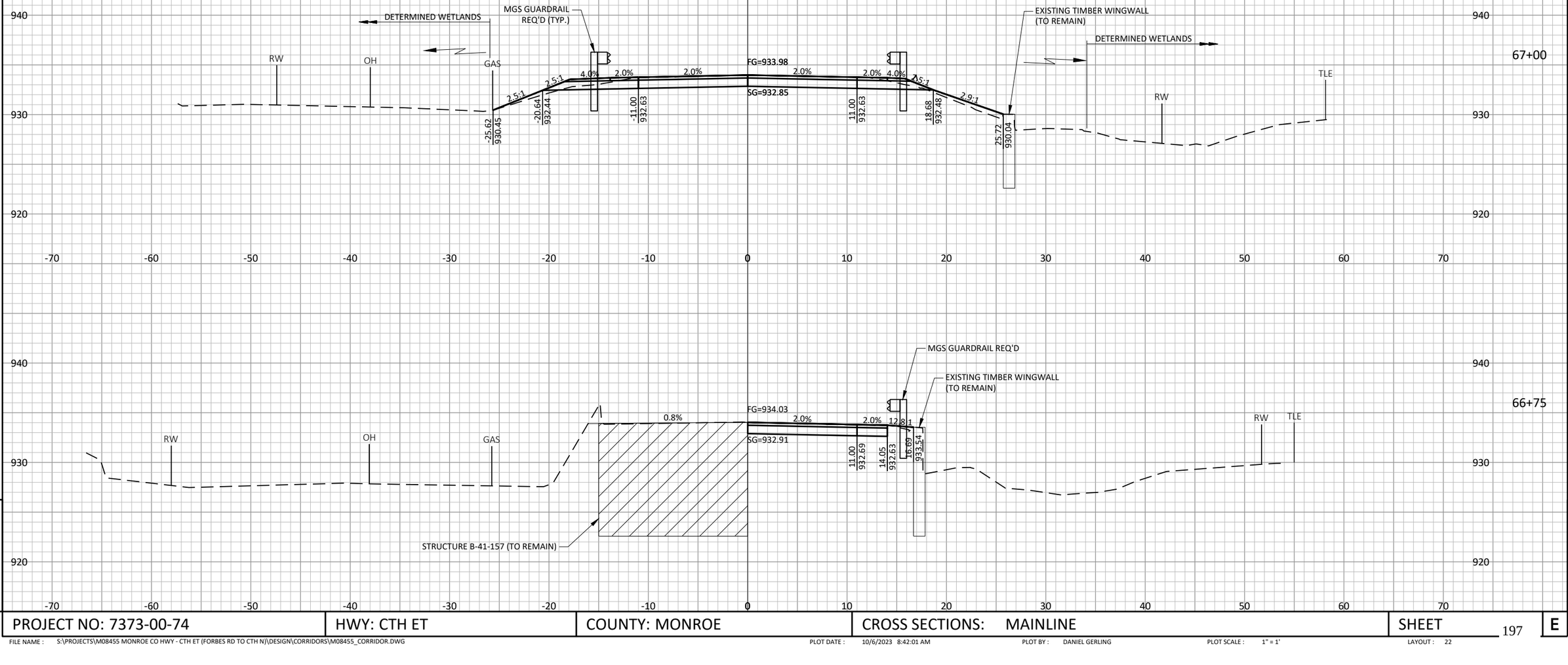


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:41:49 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 21



9

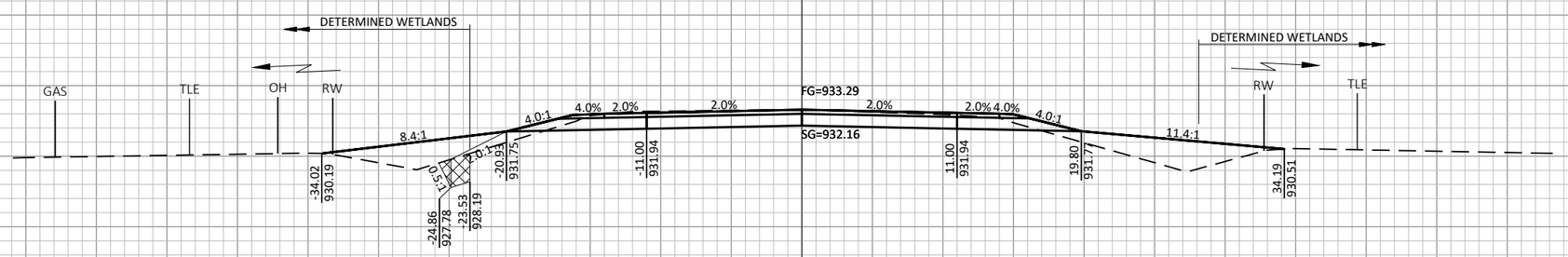
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:42:01 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 22

LEGEND

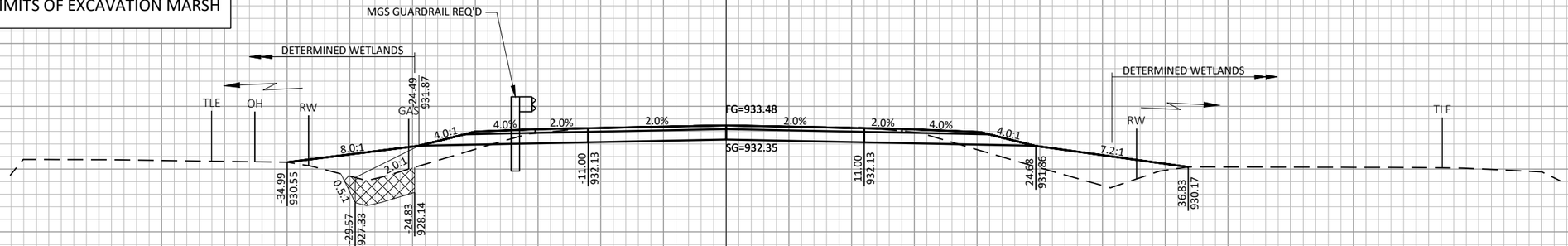
LIMITS OF EXCAVATION MARSH



69+00

LEGEND

LIMITS OF EXCAVATION MARSH



68+00

9

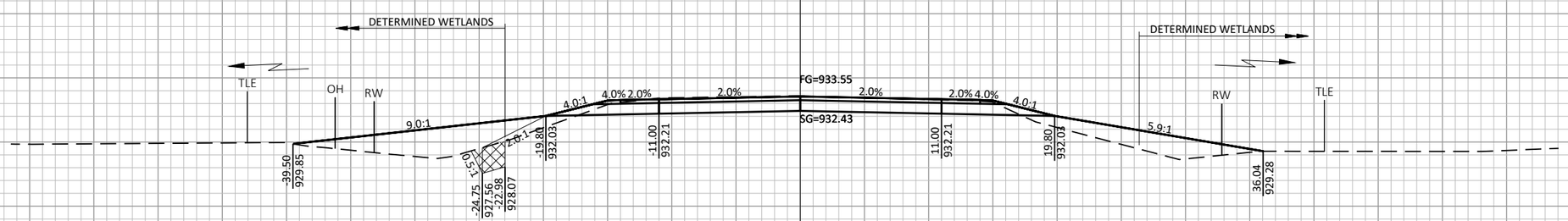
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:42:13 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 23

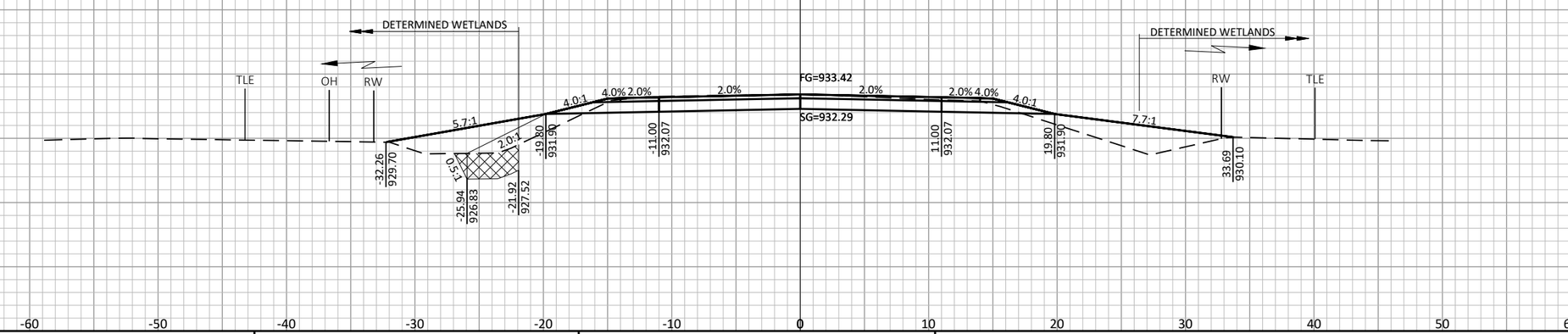
LEGEND

LIMITS OF EXCAVATION MARSH



LEGEND

LIMITS OF EXCAVATION MARSH



9

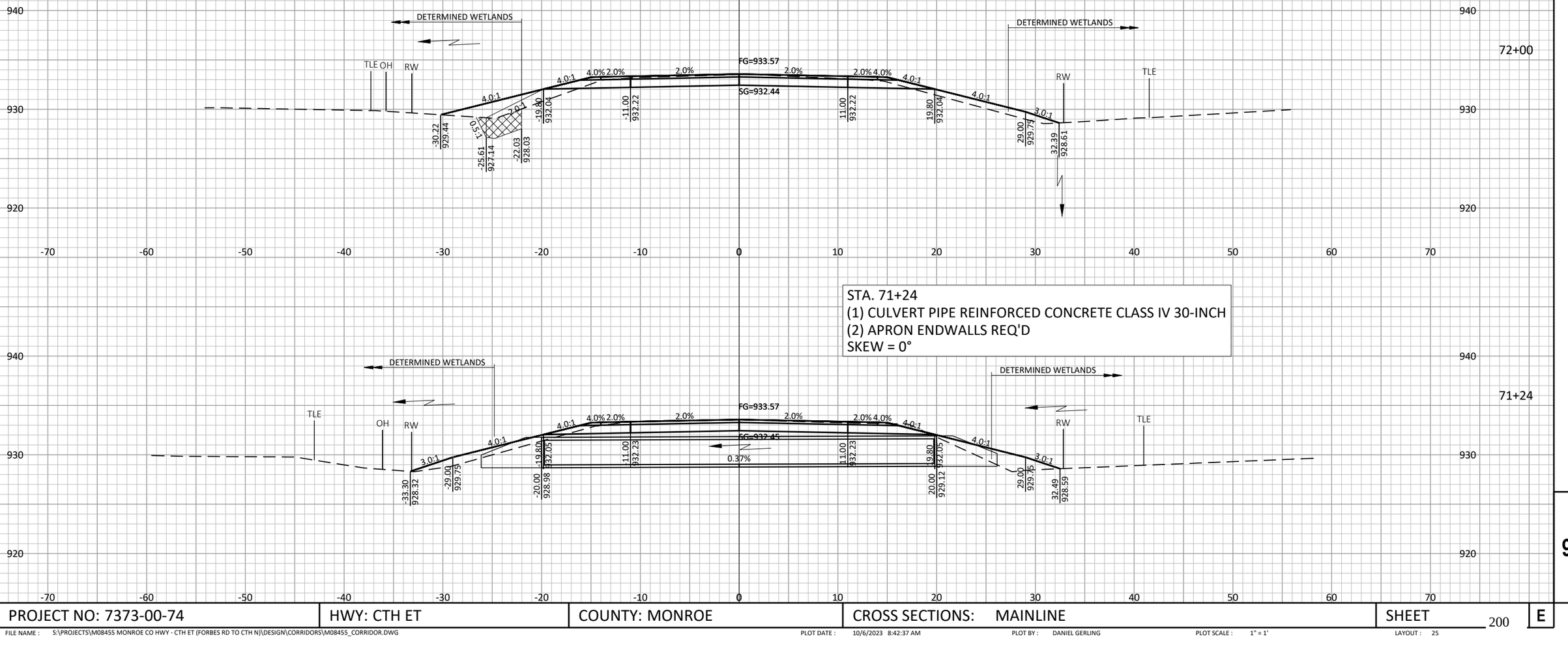
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 199	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:42:24 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 24

LEGEND

LIMITS OF EXCAVATION MARSH

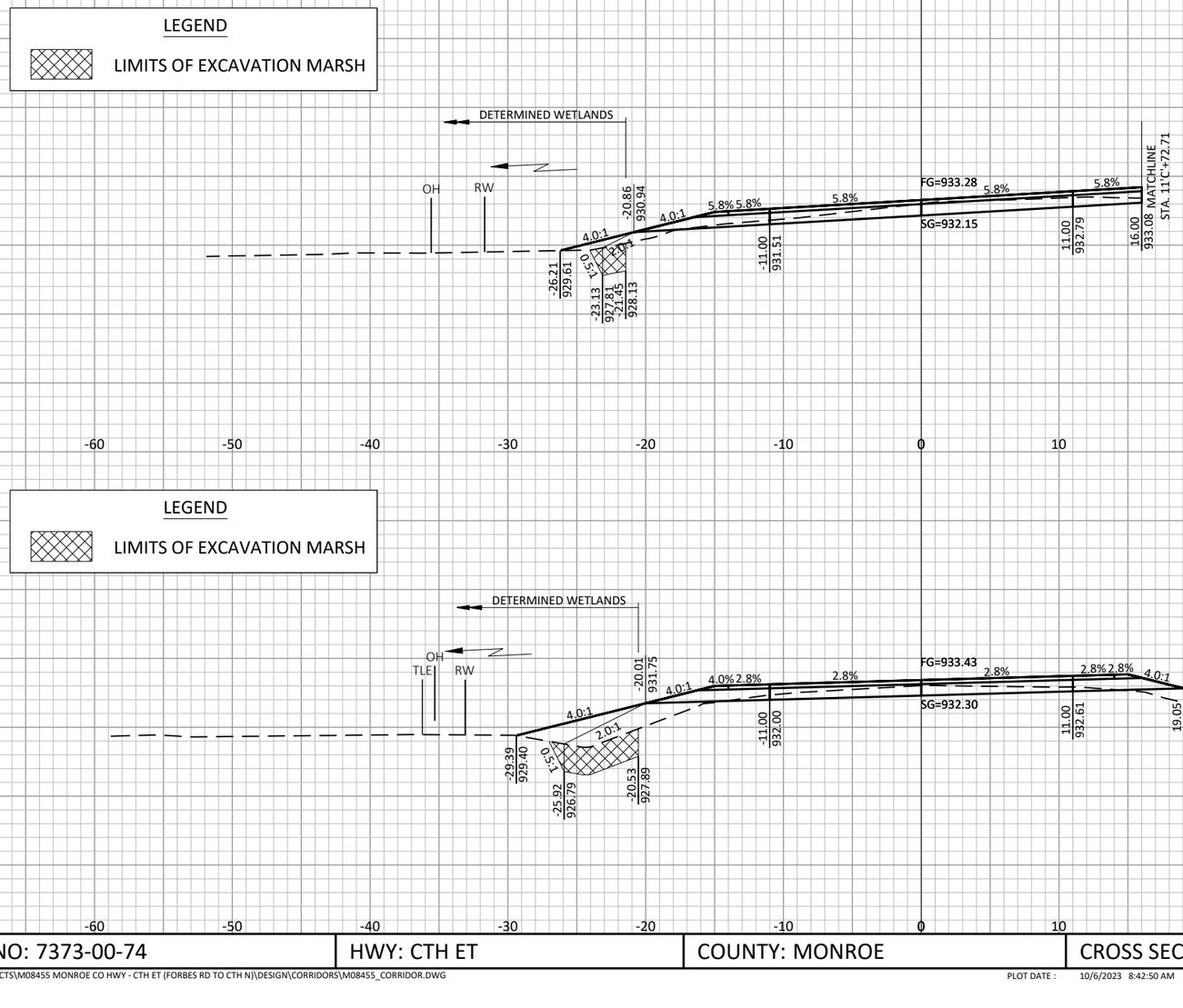


9

9

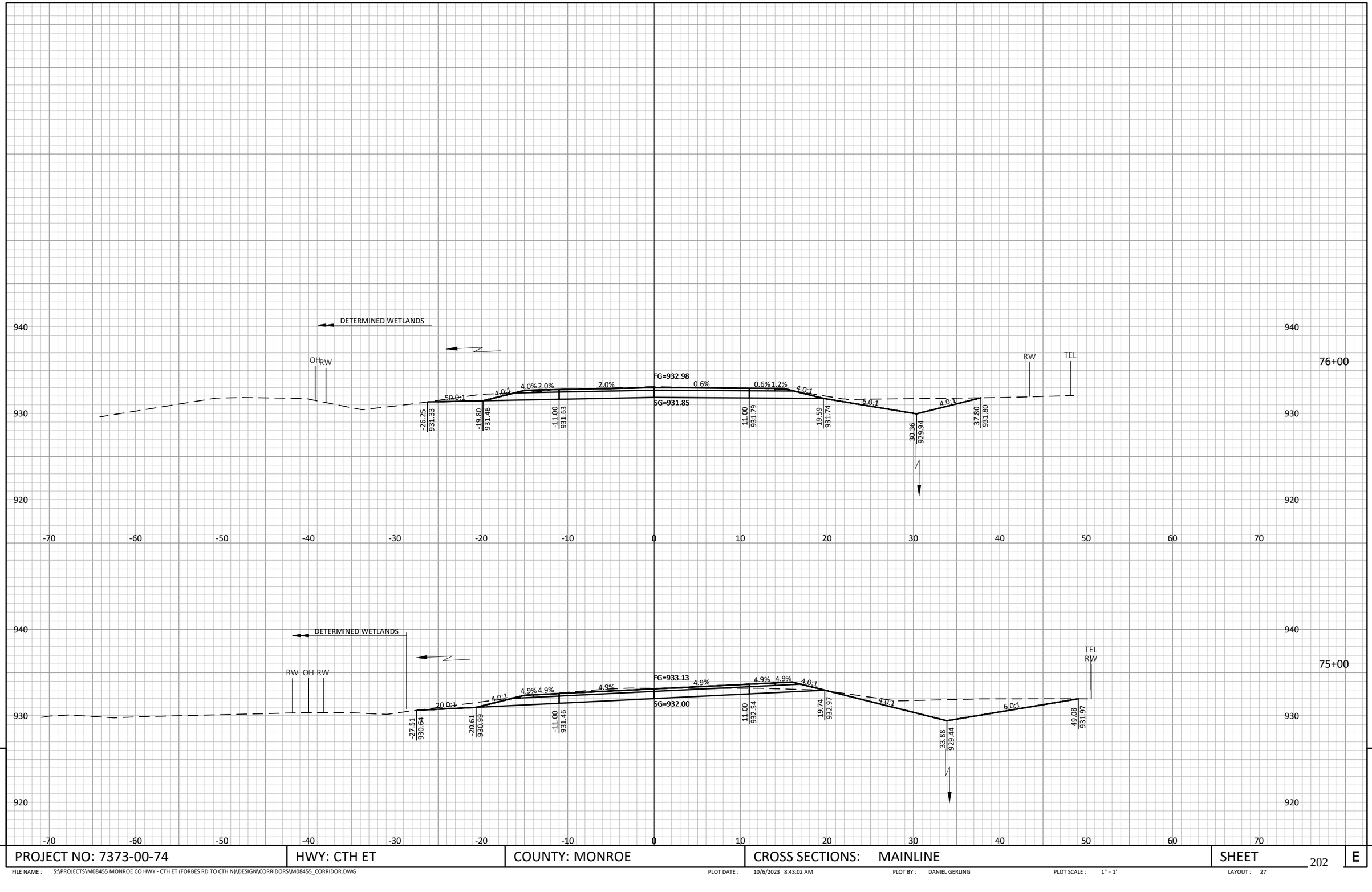
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 200	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:42:37 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 25



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 201	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:42:50 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 26

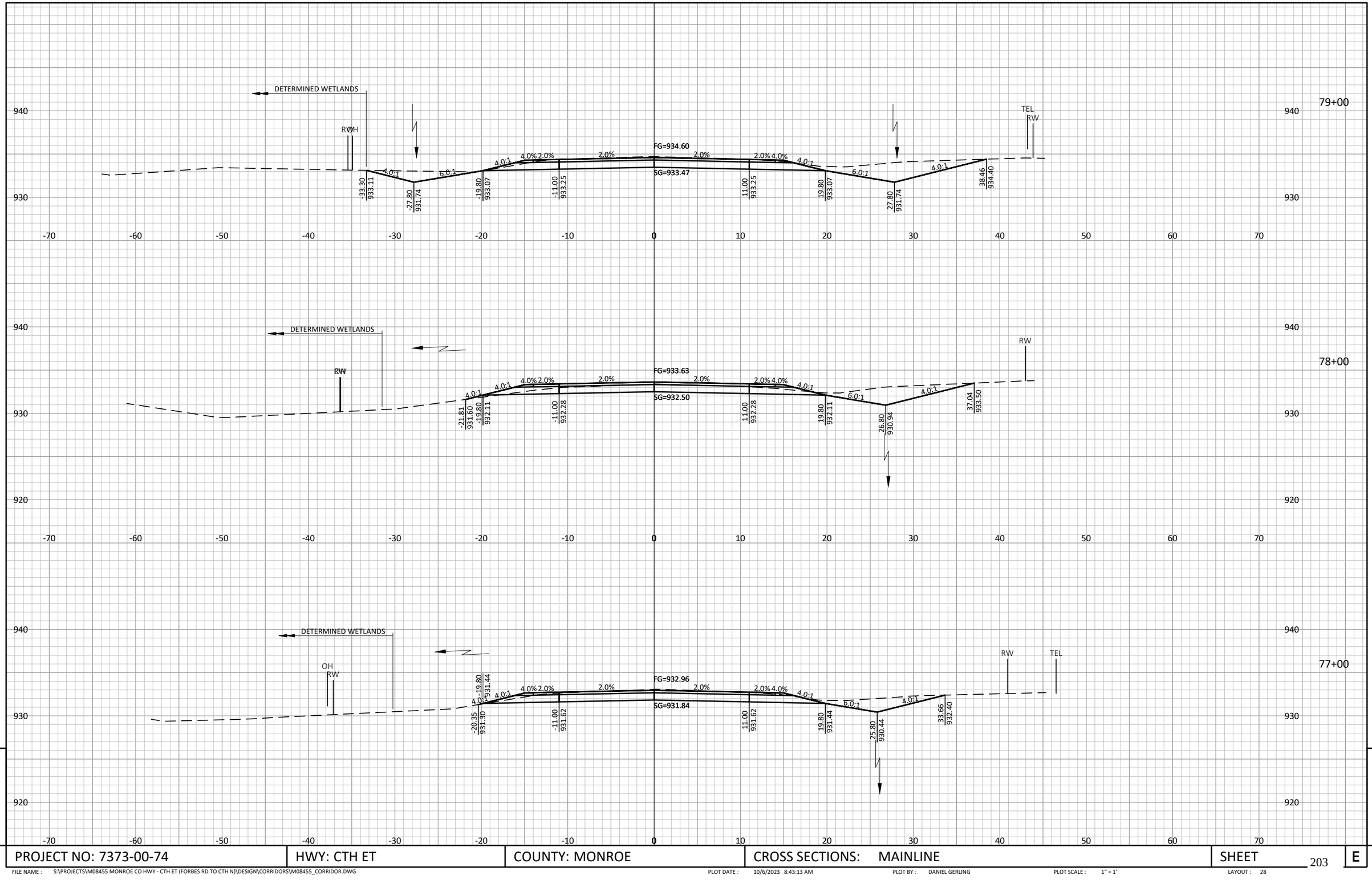


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:43:02 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 27

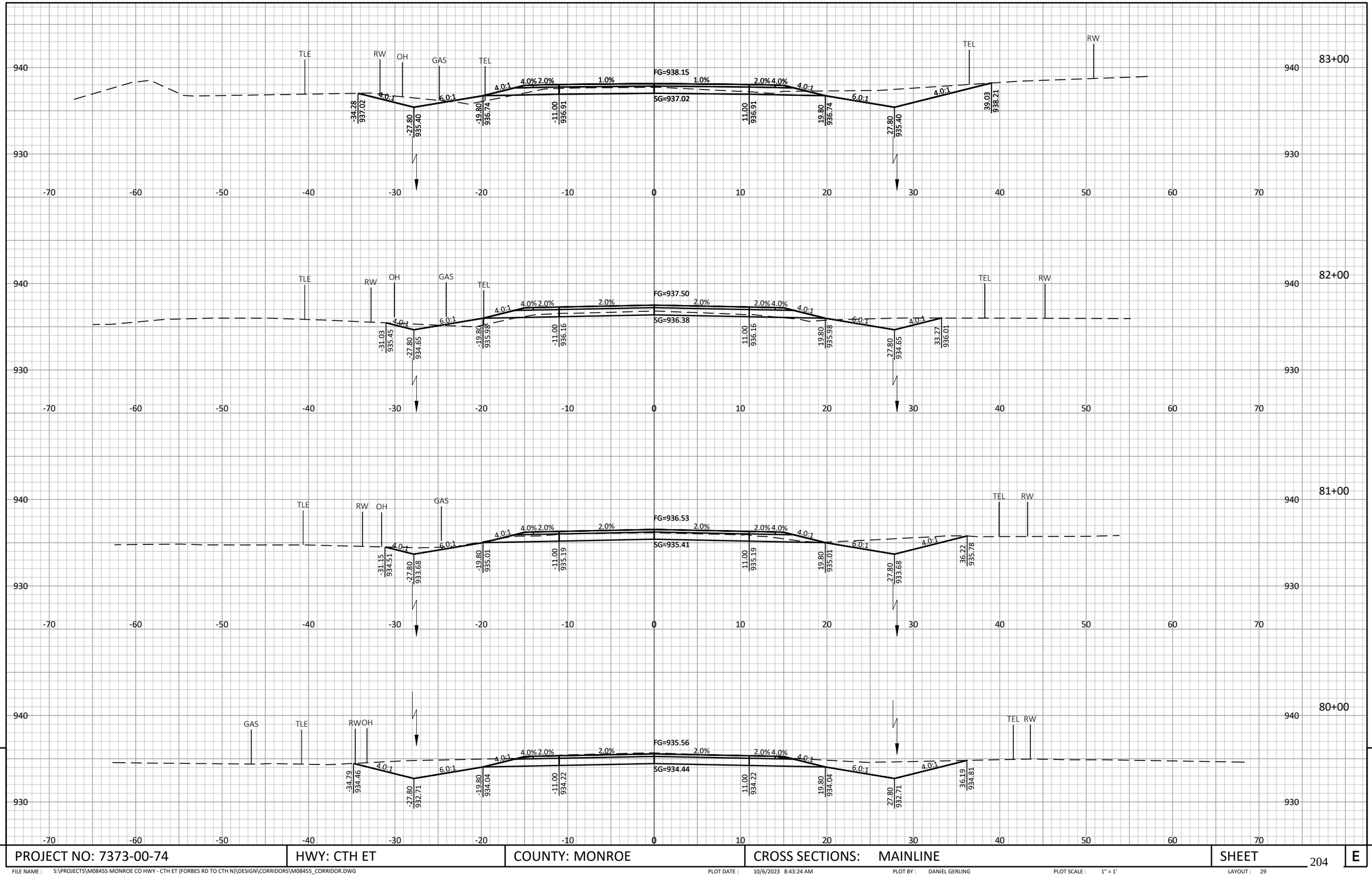


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 203	E

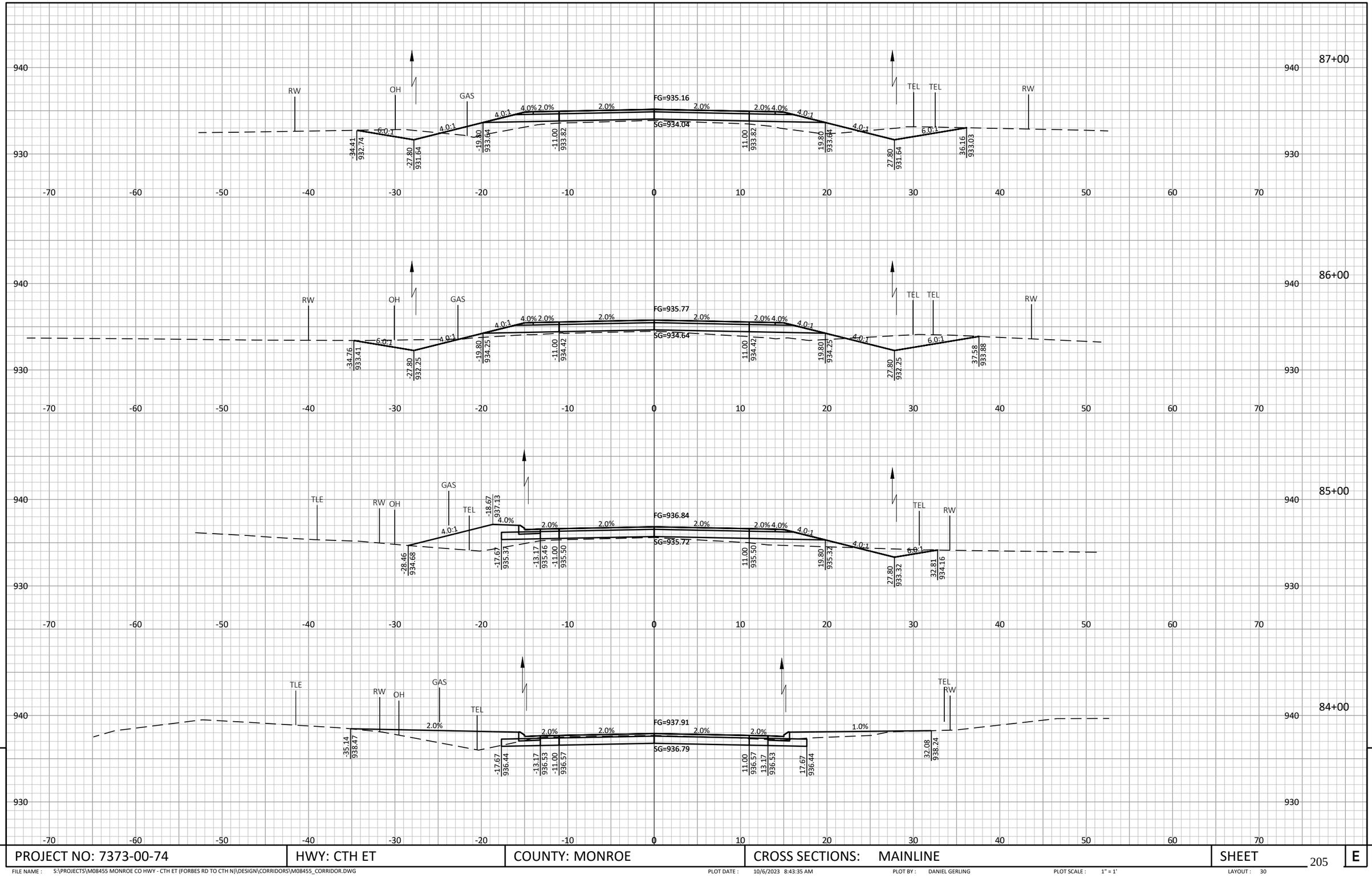
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:43:13 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 28



9

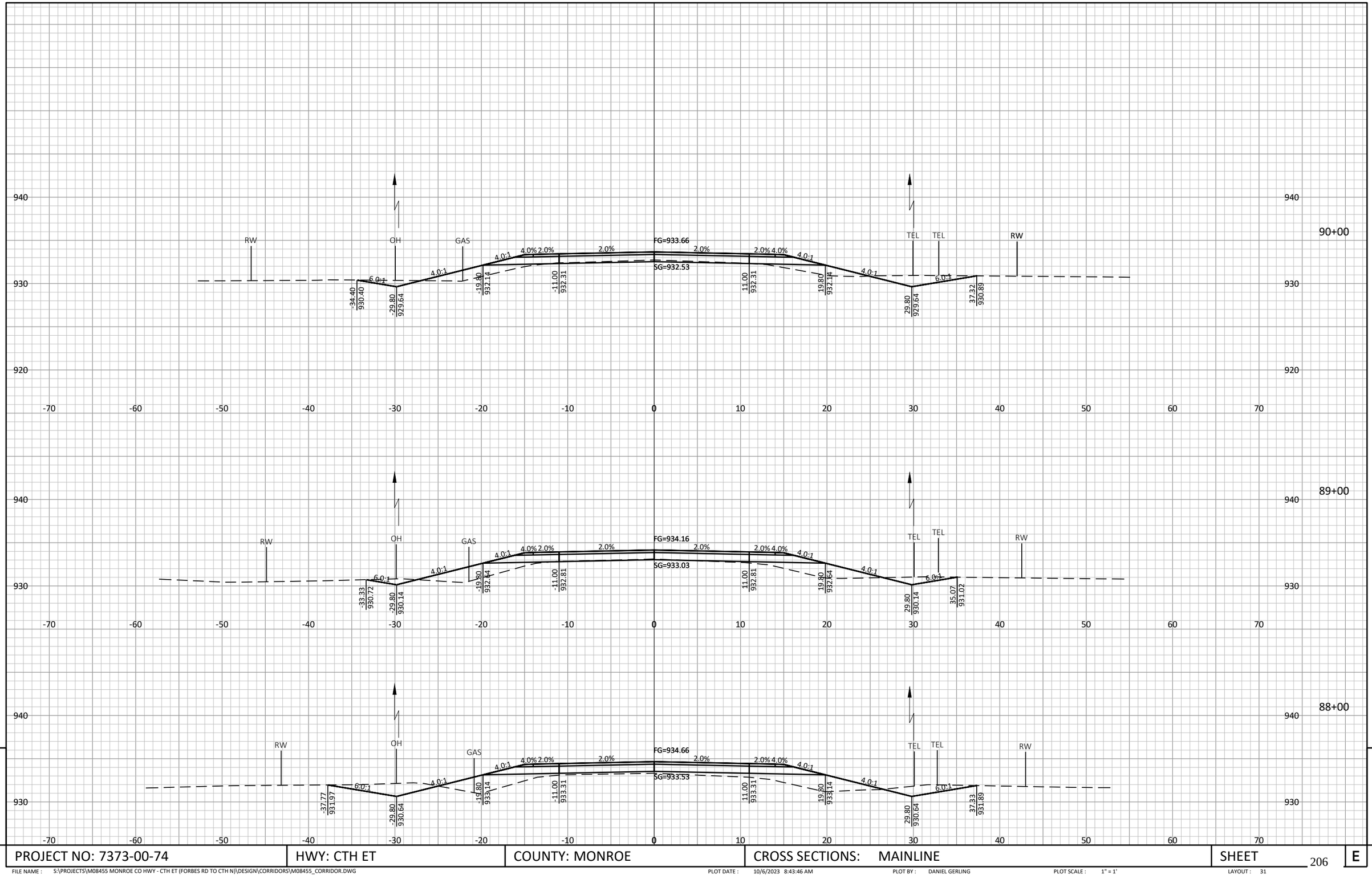
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 204	E



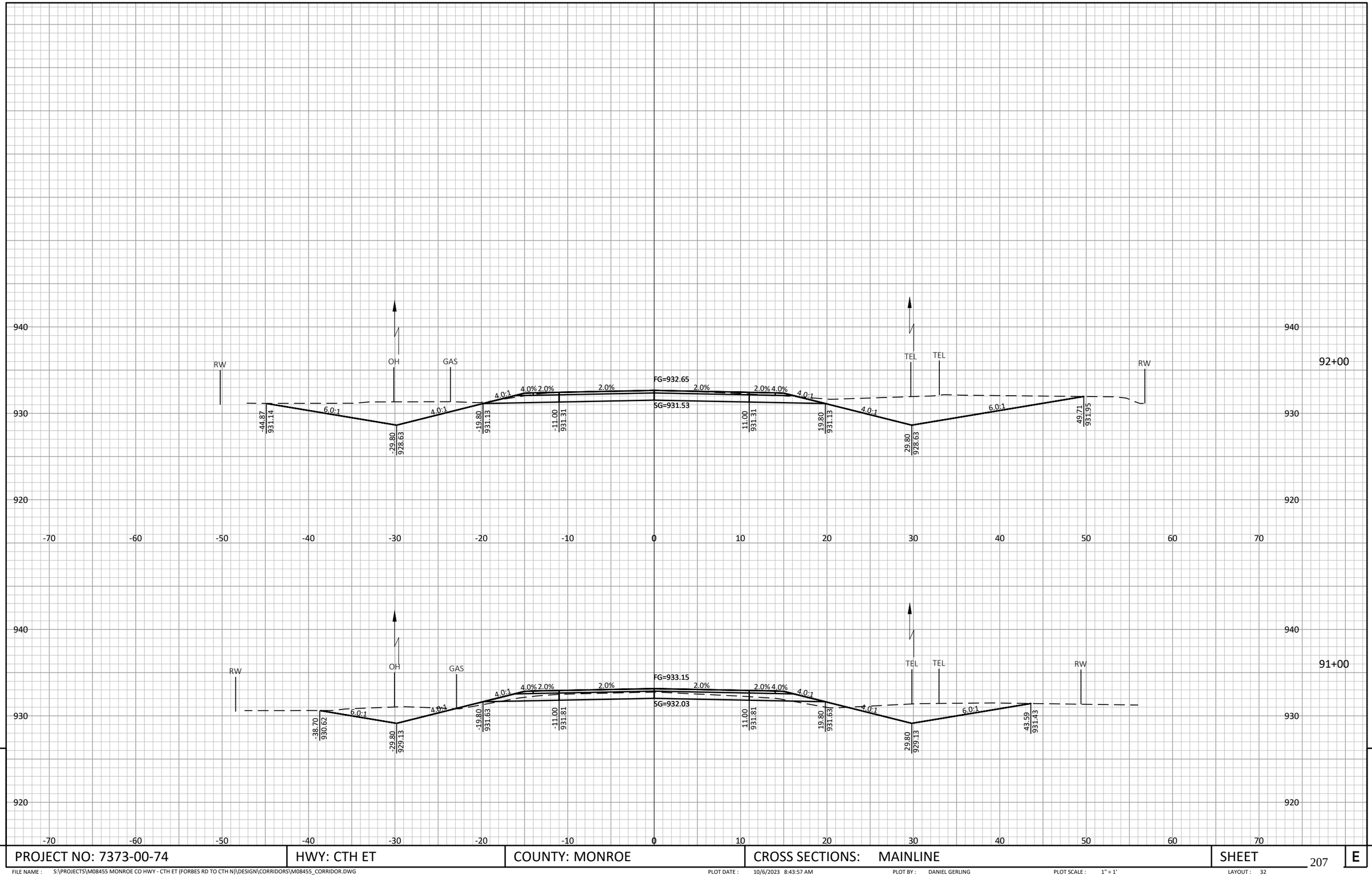
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	
				205	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:43:35 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 30



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 206	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:43:46 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 31

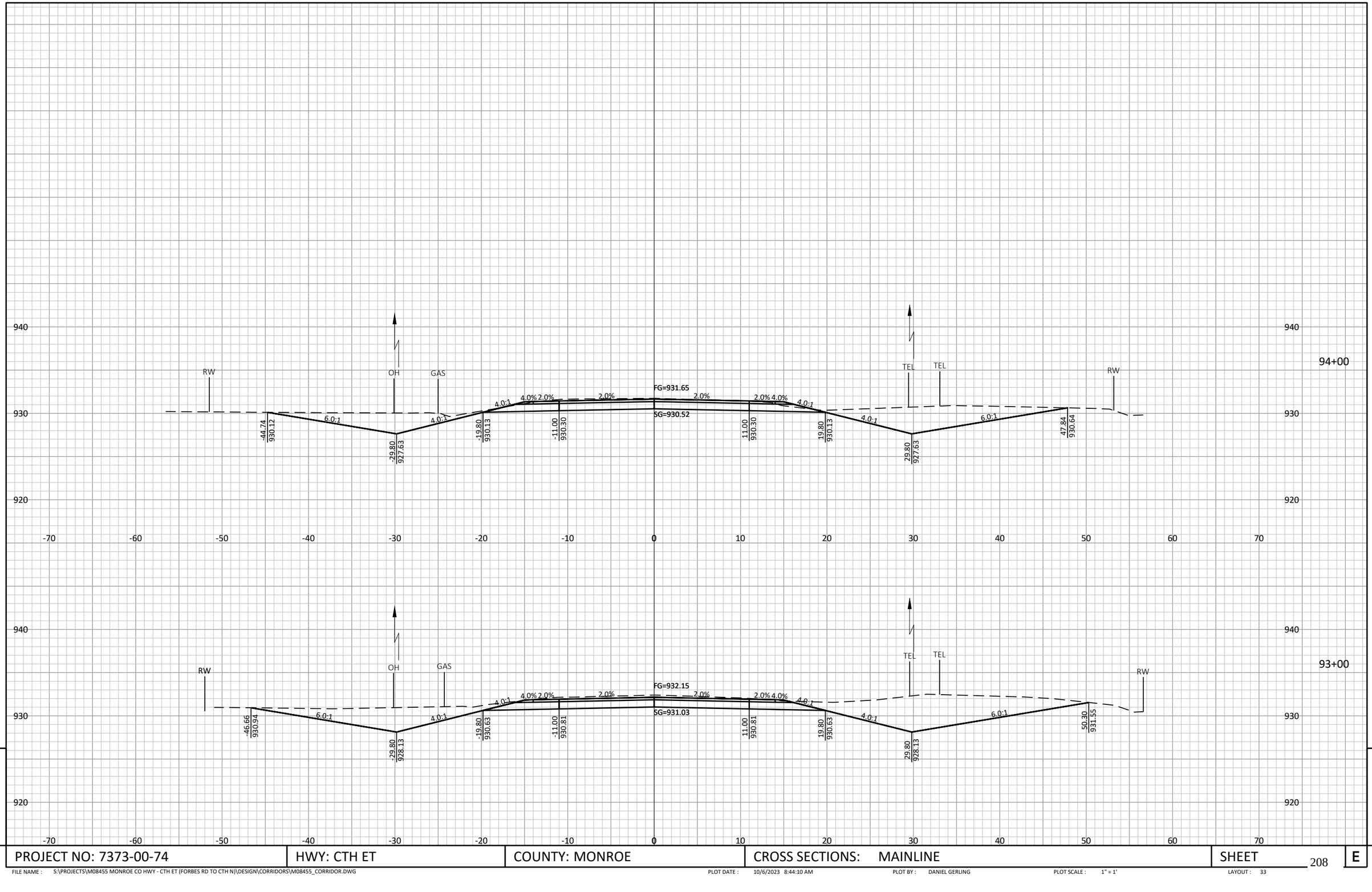


9

9

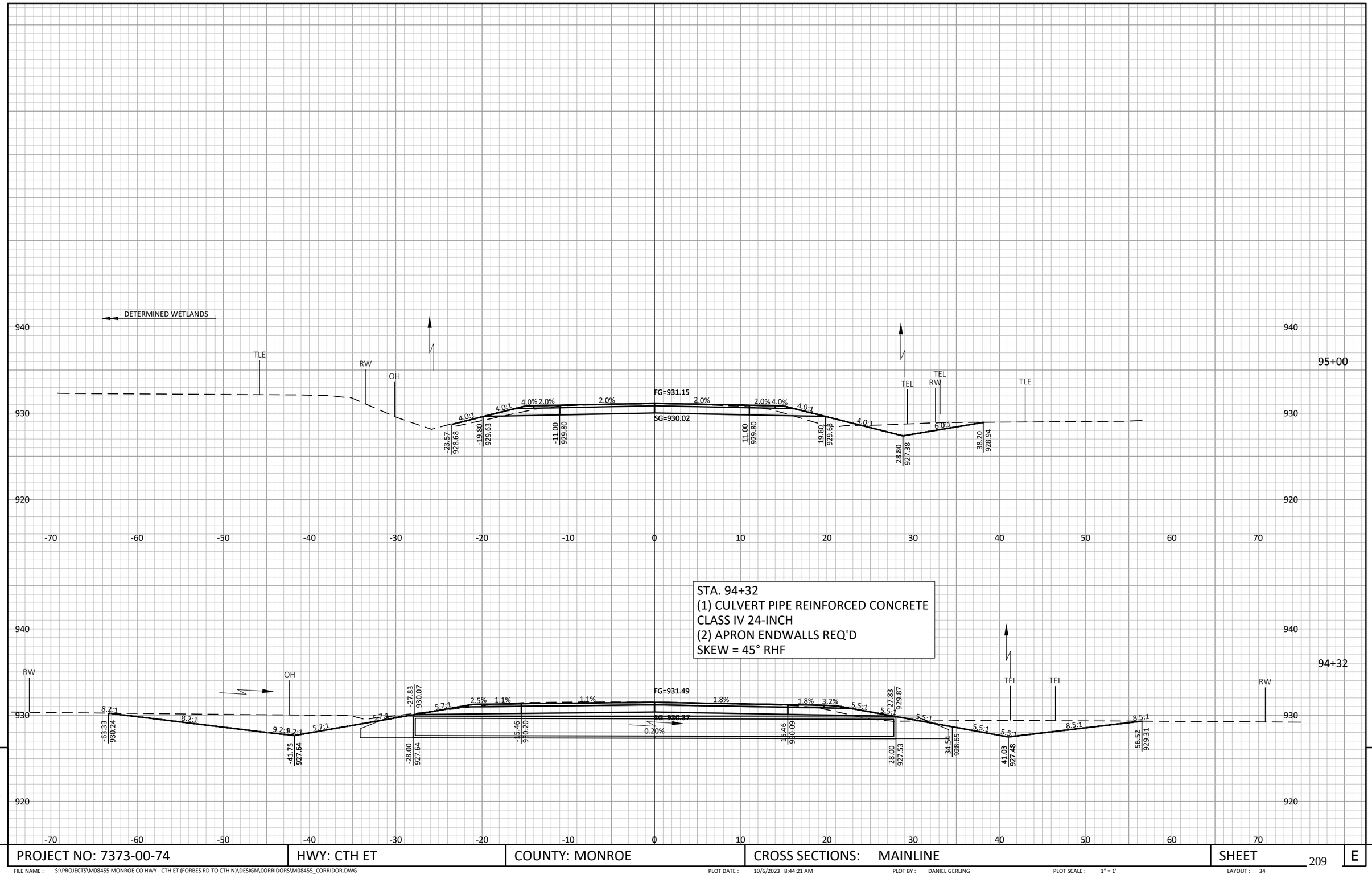
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:43:57 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 32



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:44:10 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 33



9

9

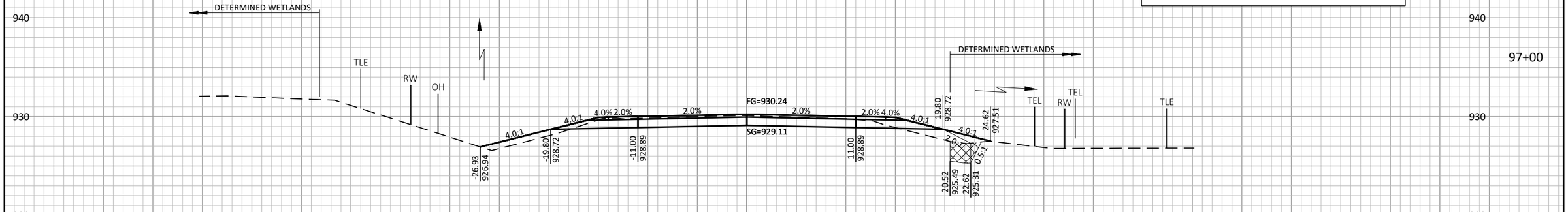
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:44:21 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 34

LEGEND

LIMITS OF EXCAVATION MARSH

97+00



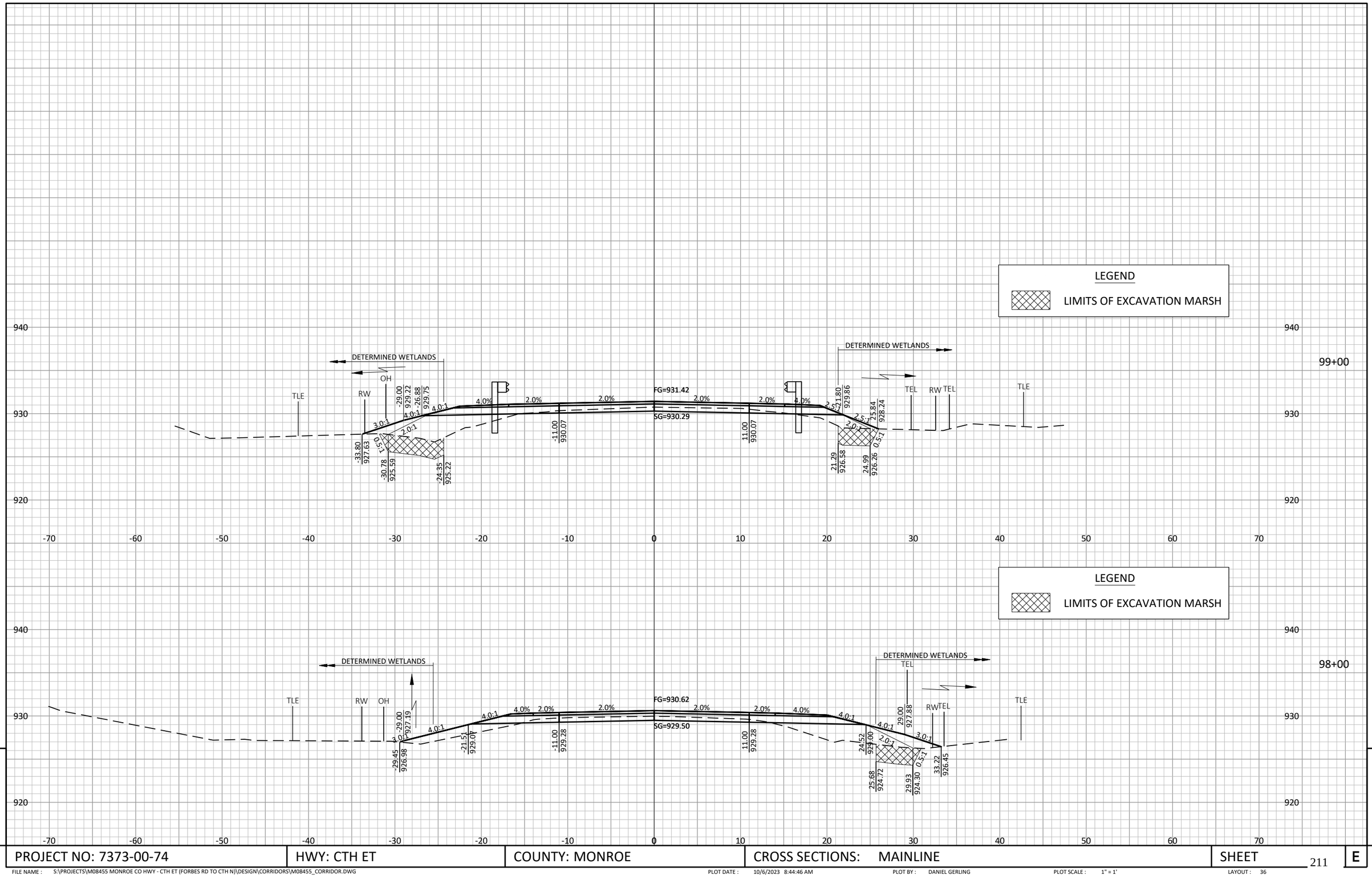
96+00

9

9

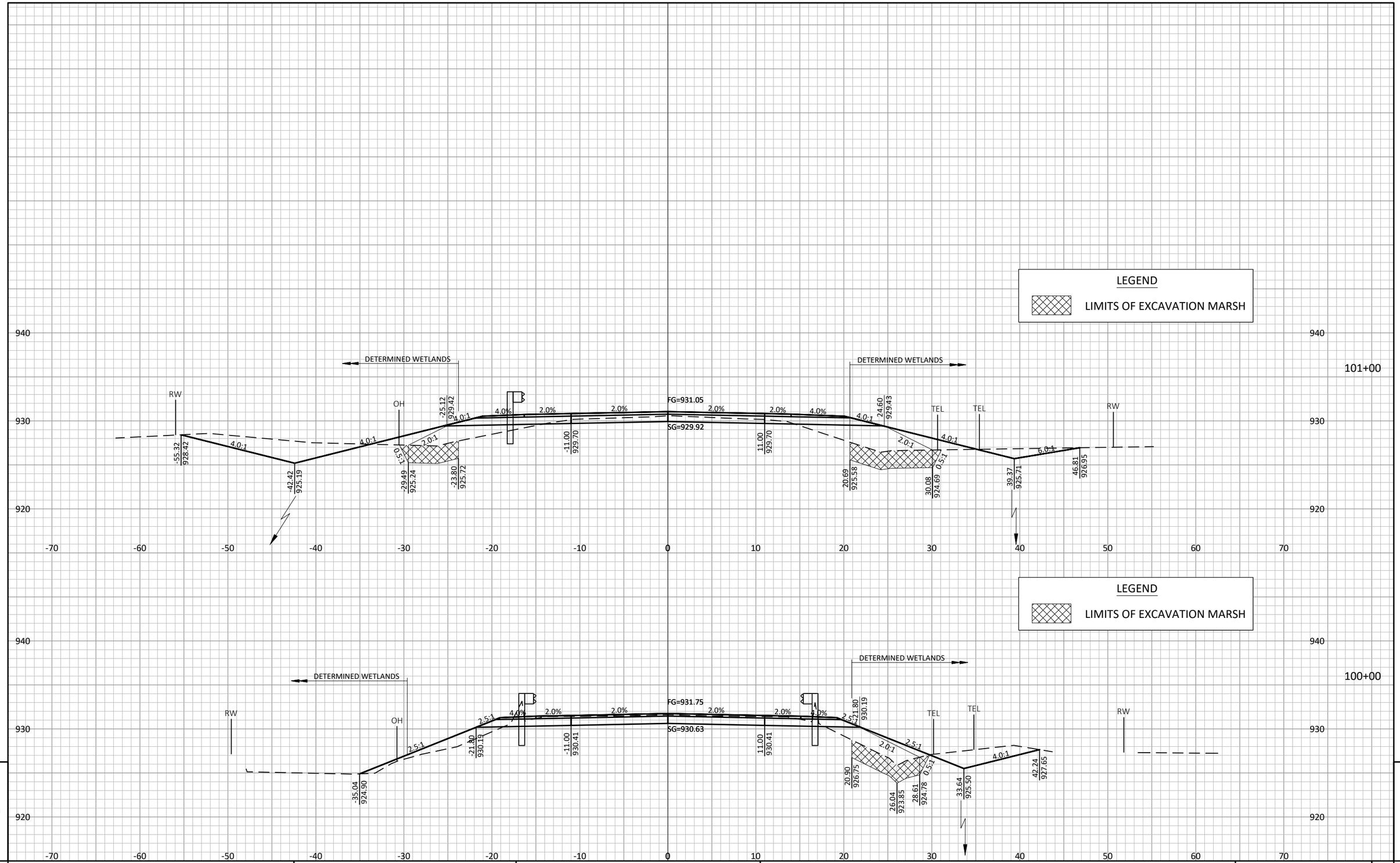
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 210	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:44:34 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 35



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:44:46 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 36

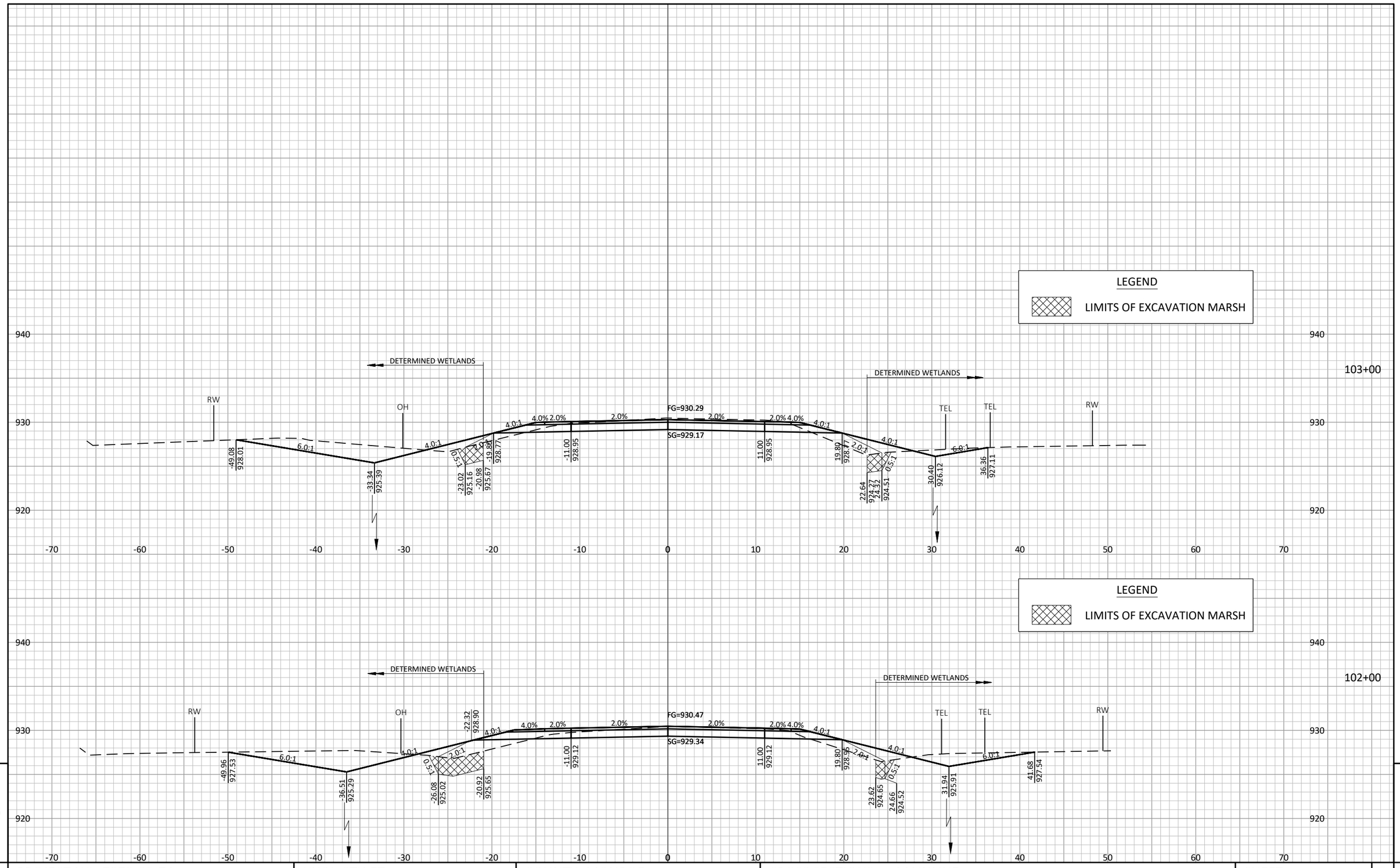


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 212	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:44:57 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 37



9

9

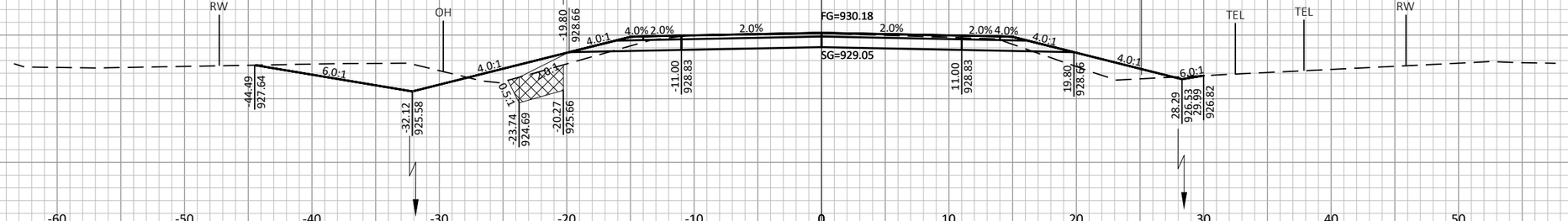
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:45:07 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 38

LEGEND

LIMITS OF EXCAVATION MARSH

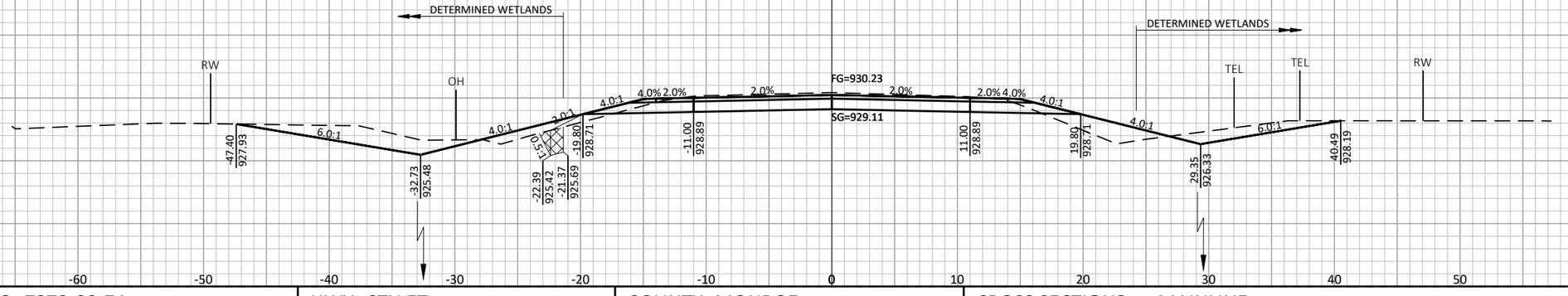
105+00



LEGEND

LIMITS OF EXCAVATION MARSH

104+00



9

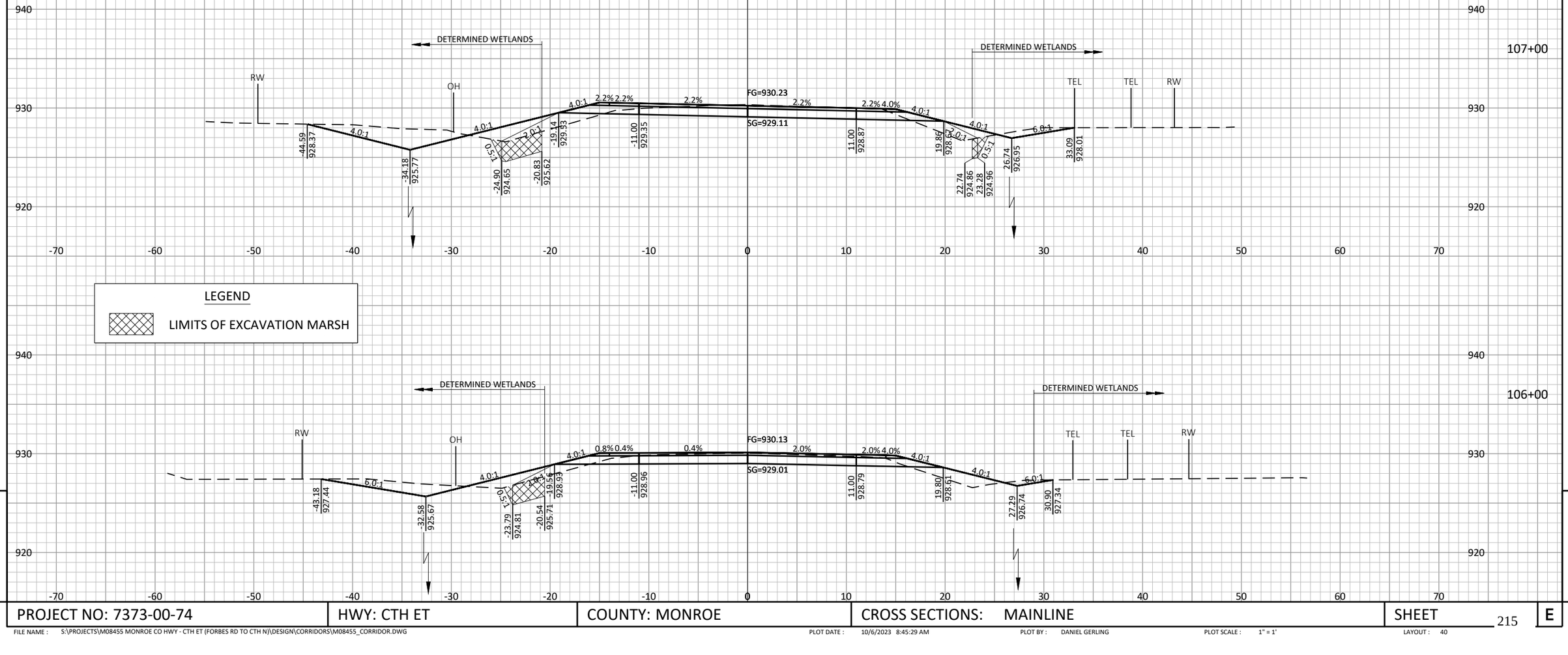
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 214	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:45:18 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 39

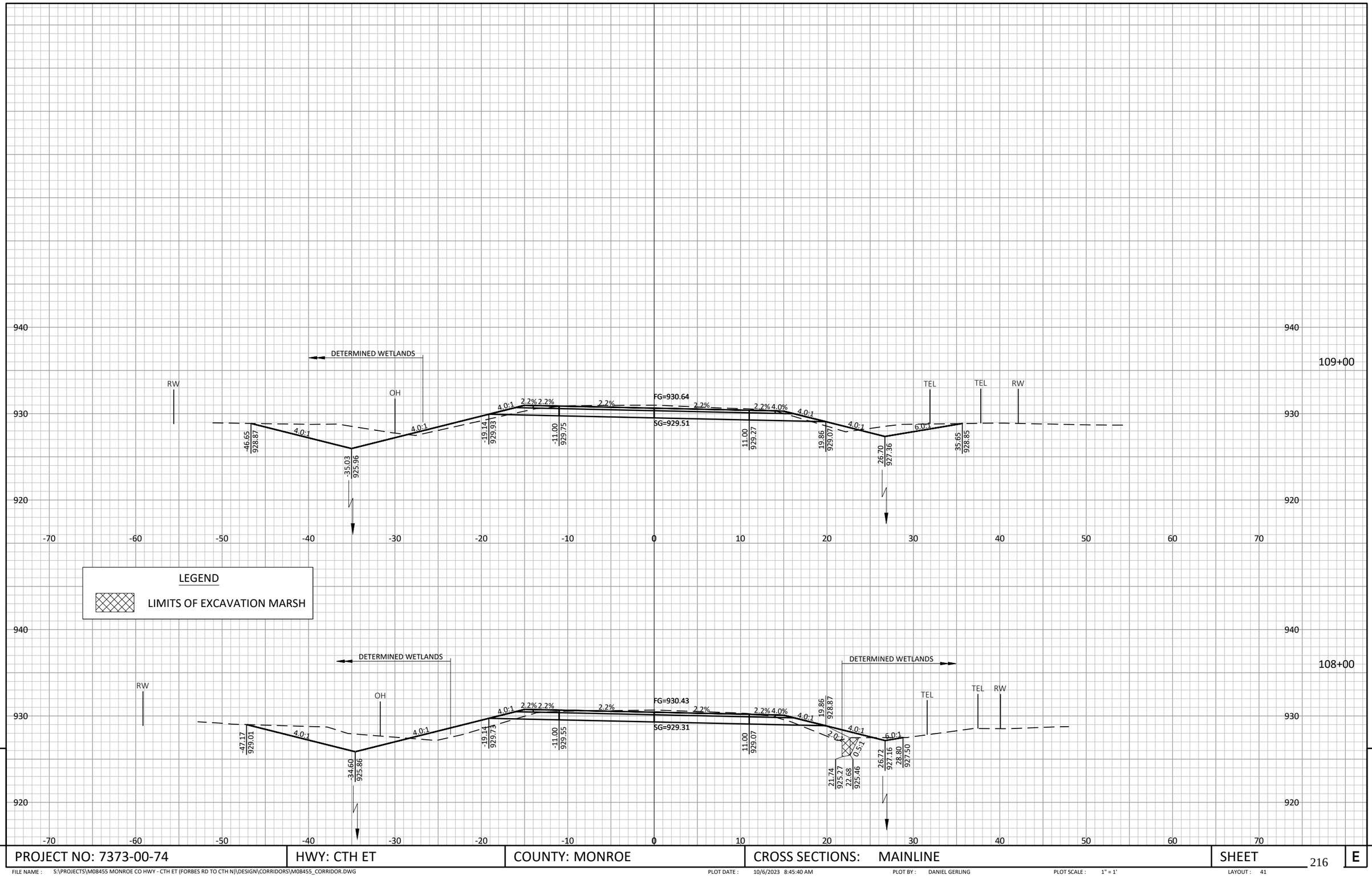
LEGEND

LIMITS OF EXCAVATION MARSH



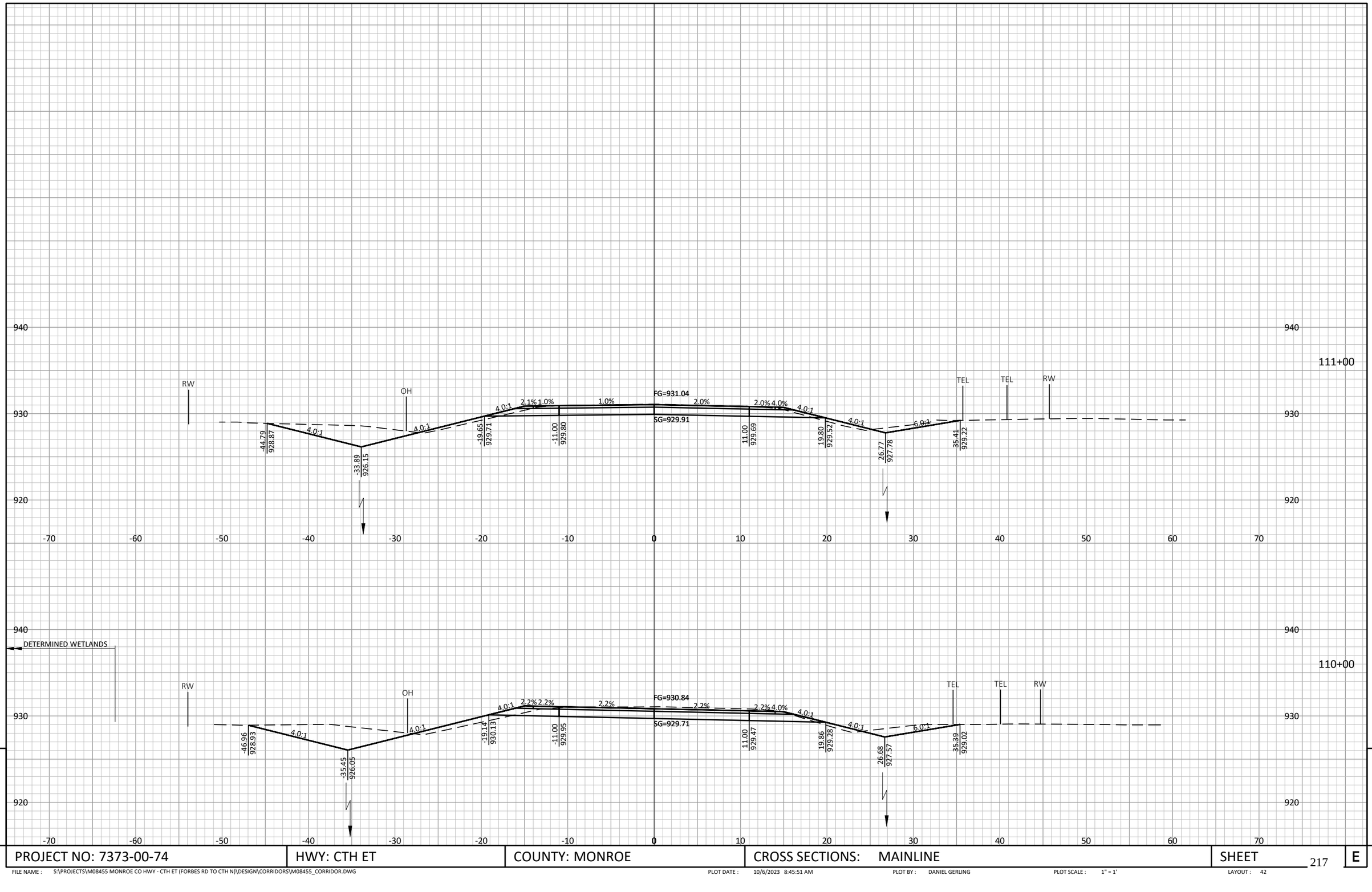
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:45:29 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 40



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 216	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:45:40 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 41

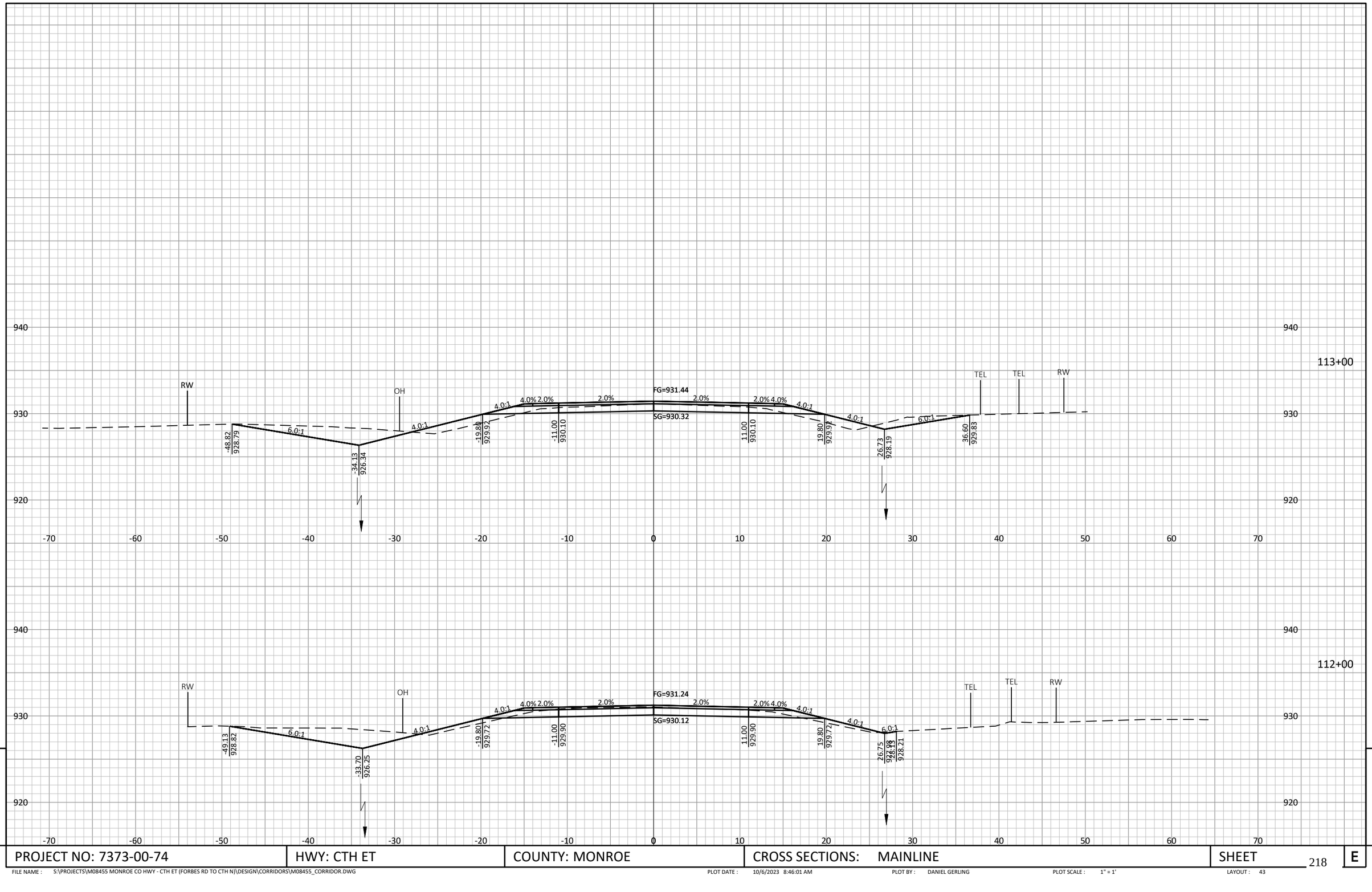


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:45:51 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 42

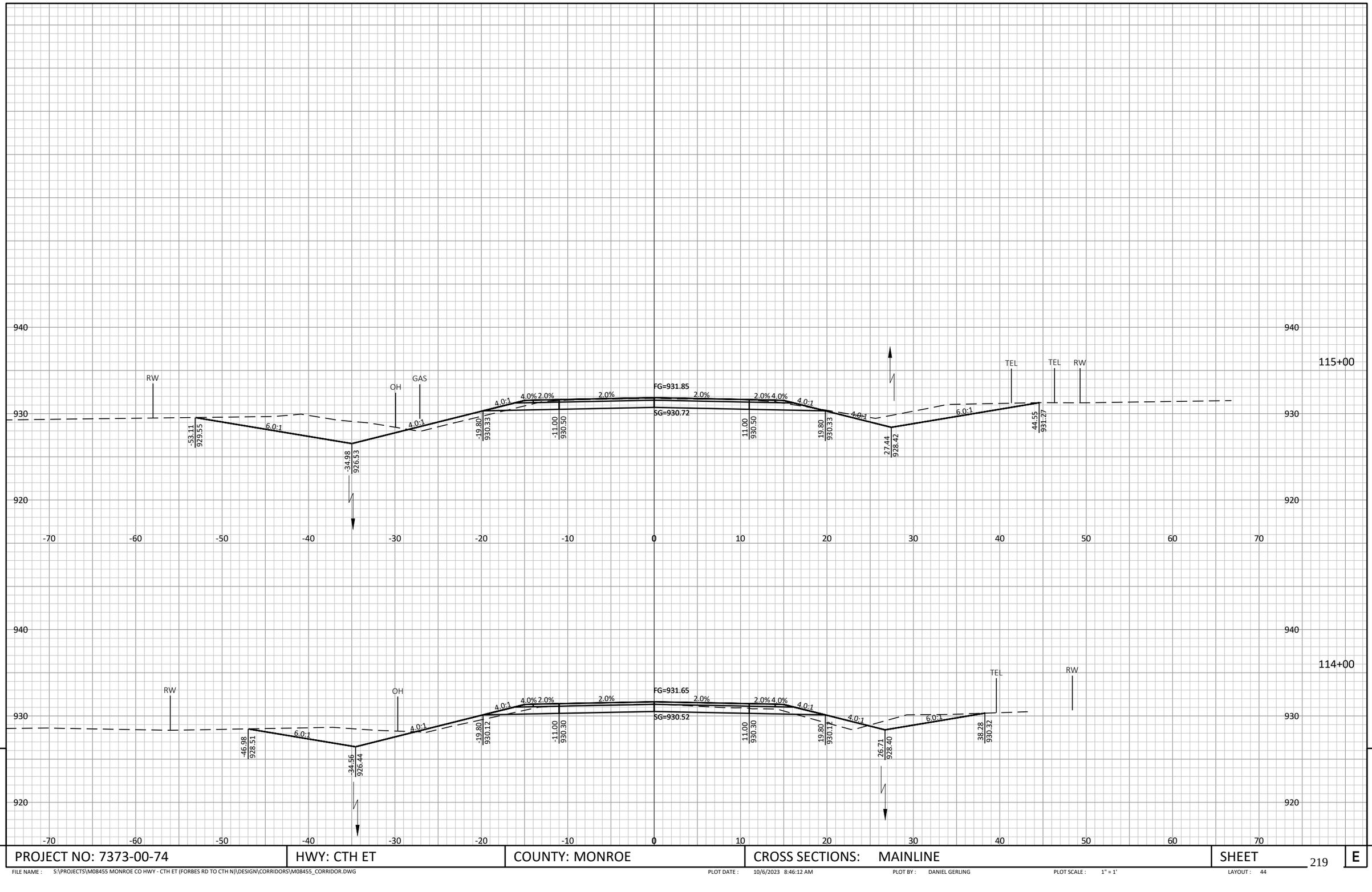


9

9

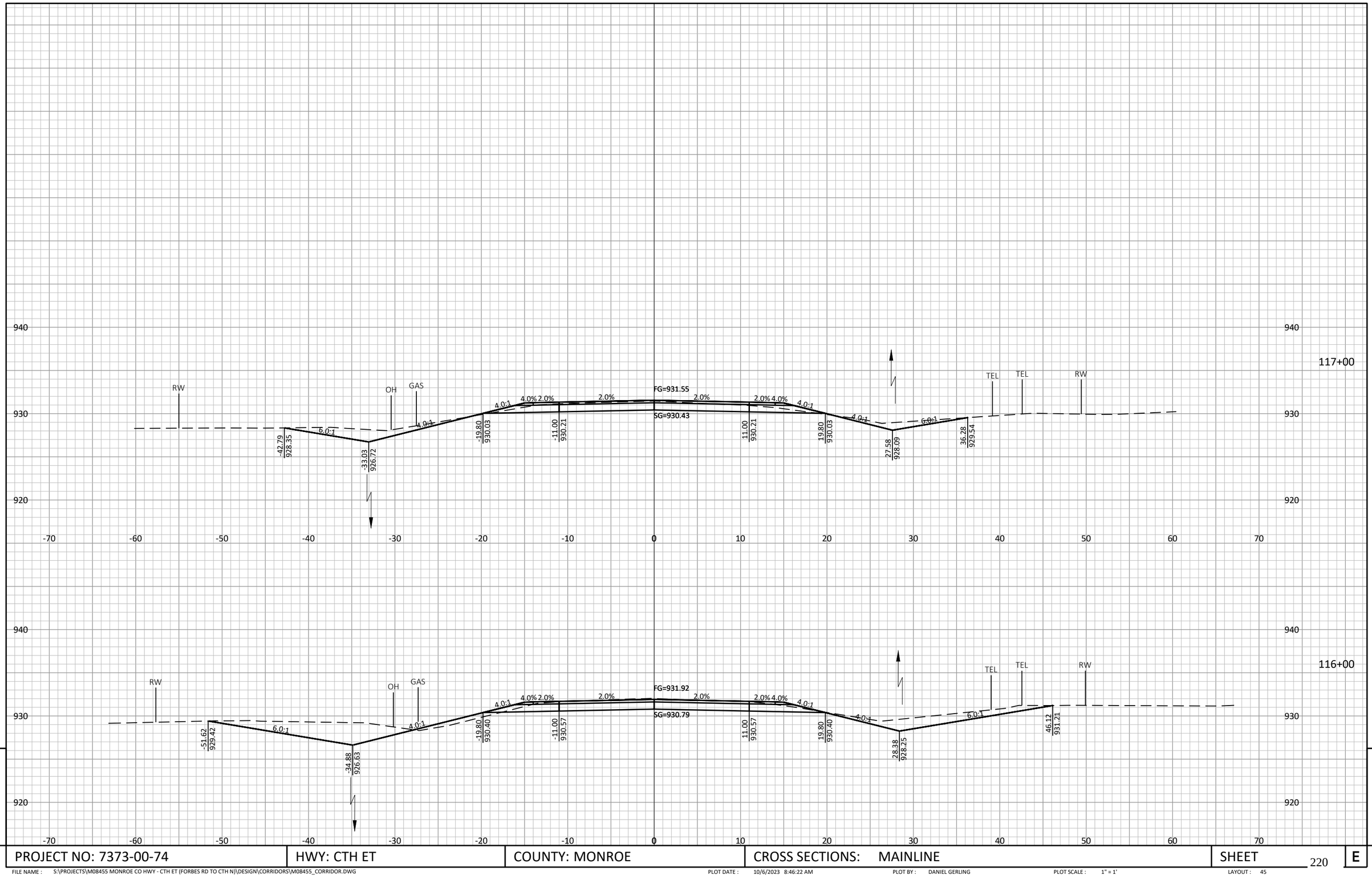
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:46:01 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 43



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:46:12 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 44

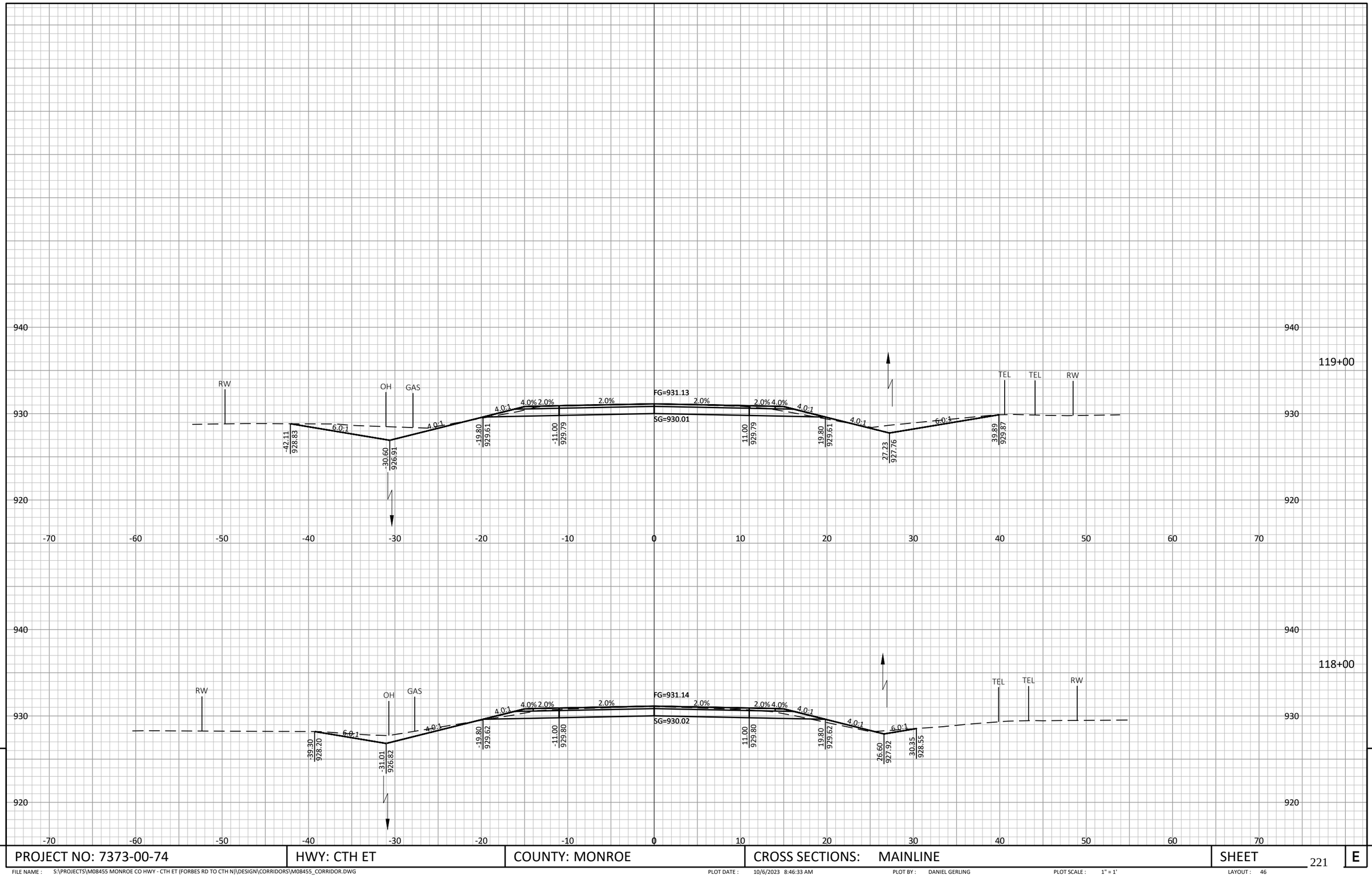


9

9

PROJECT NO: 7373-00-74 | HWY: CTH ET | COUNTY: MONROE | CROSS SECTIONS: MAINLINE | SHEET 220 | E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:46:22 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 45

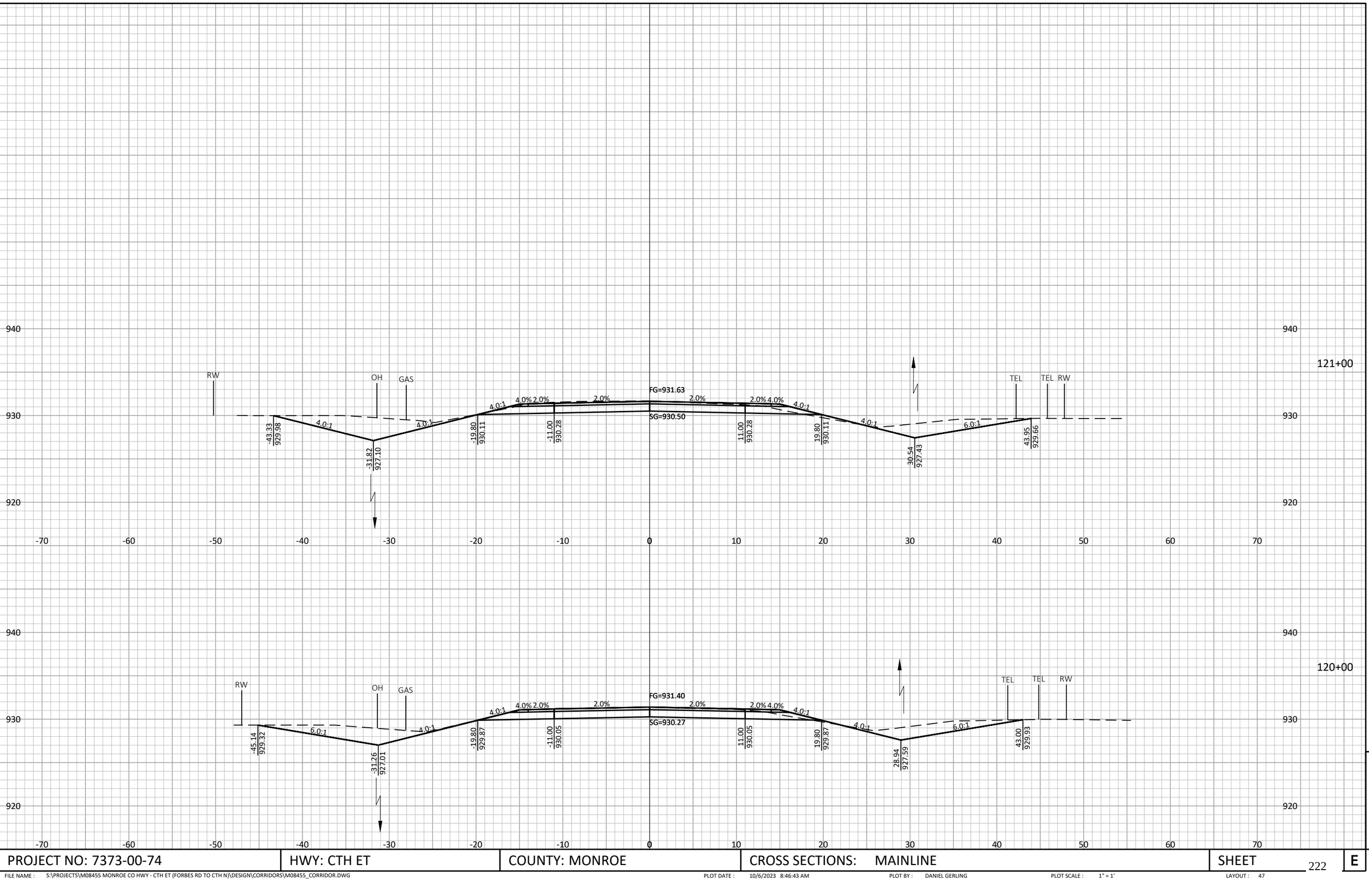


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:46:33 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 46

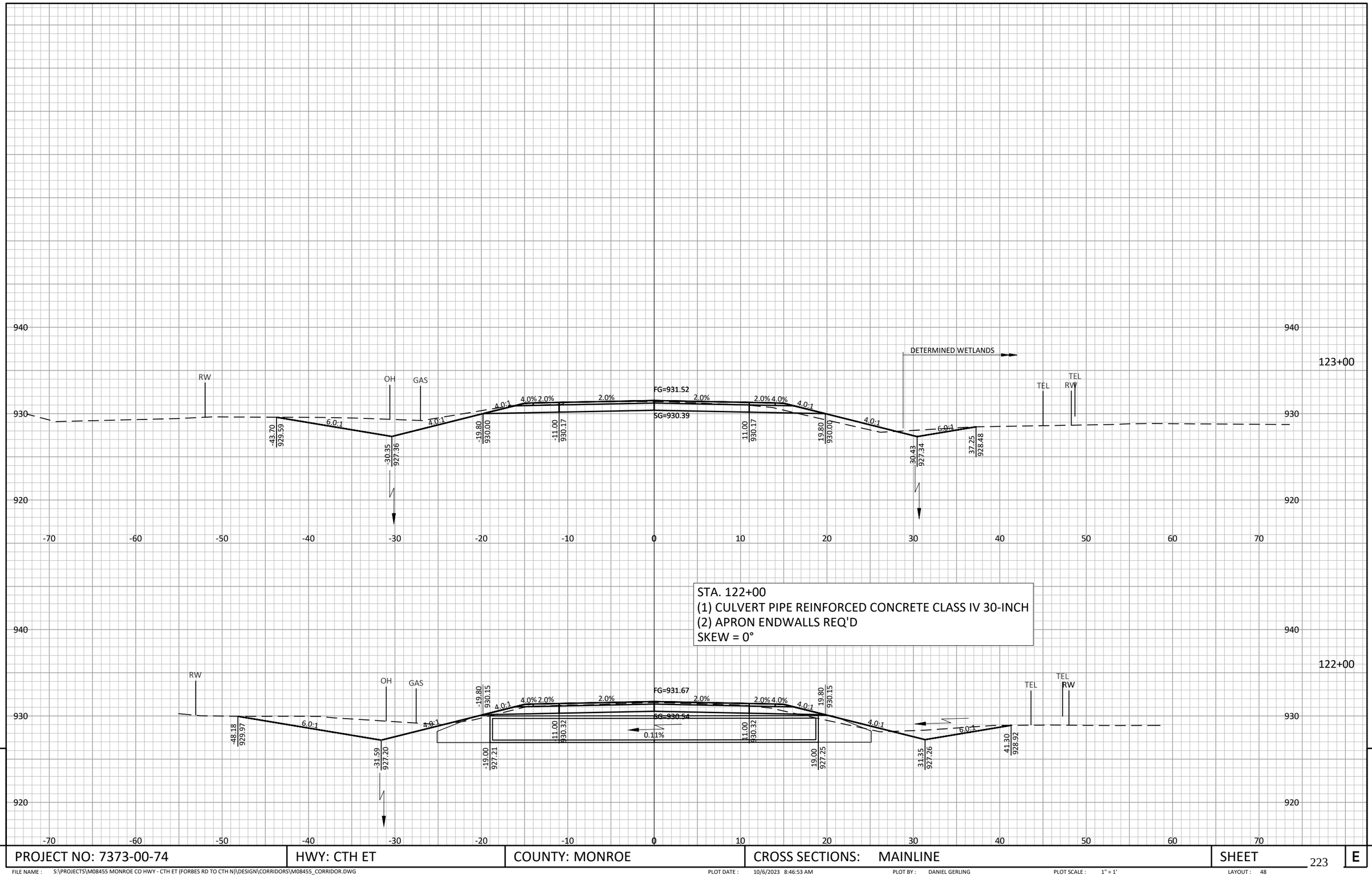


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 222	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:46:43 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 47

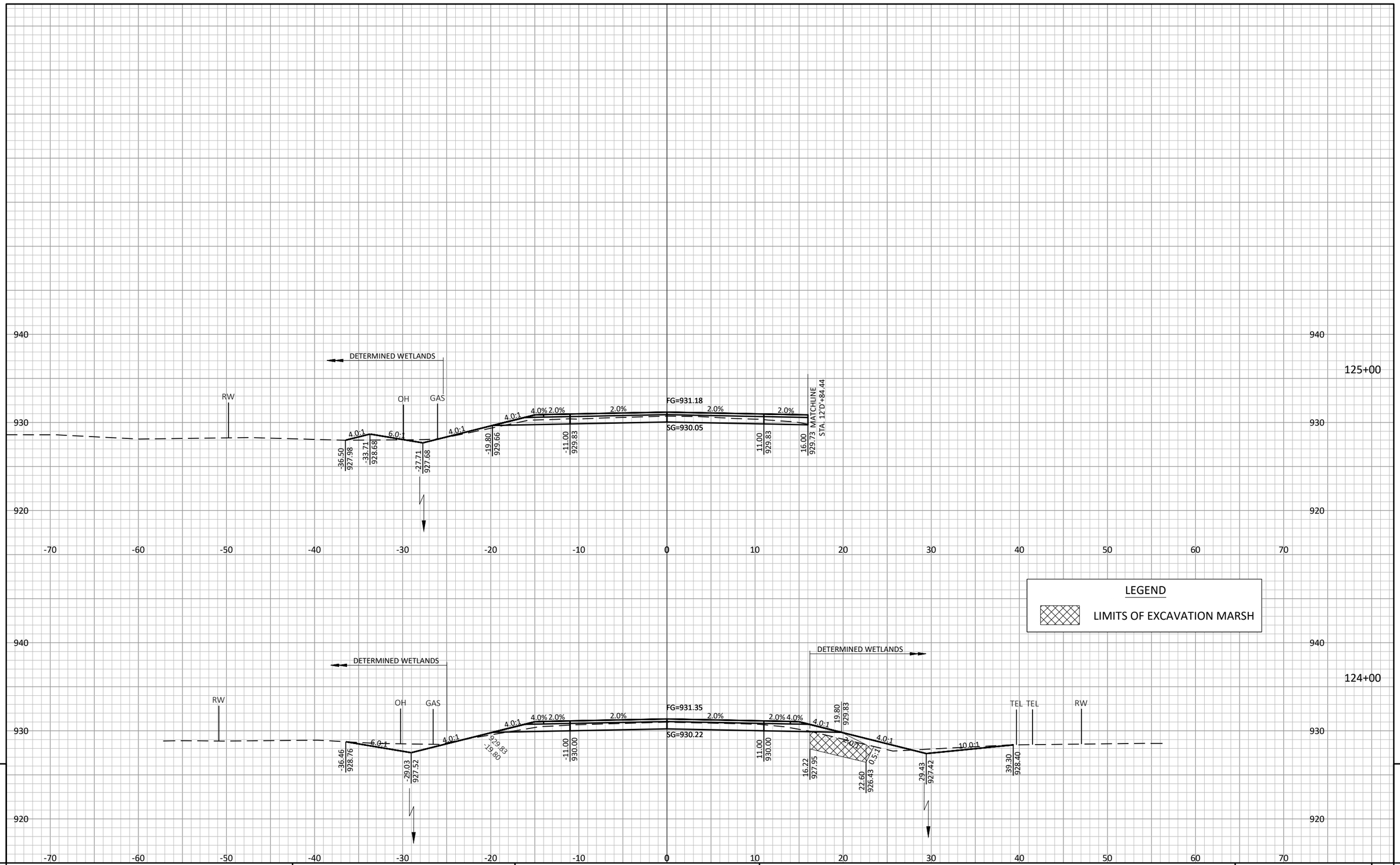


9

9

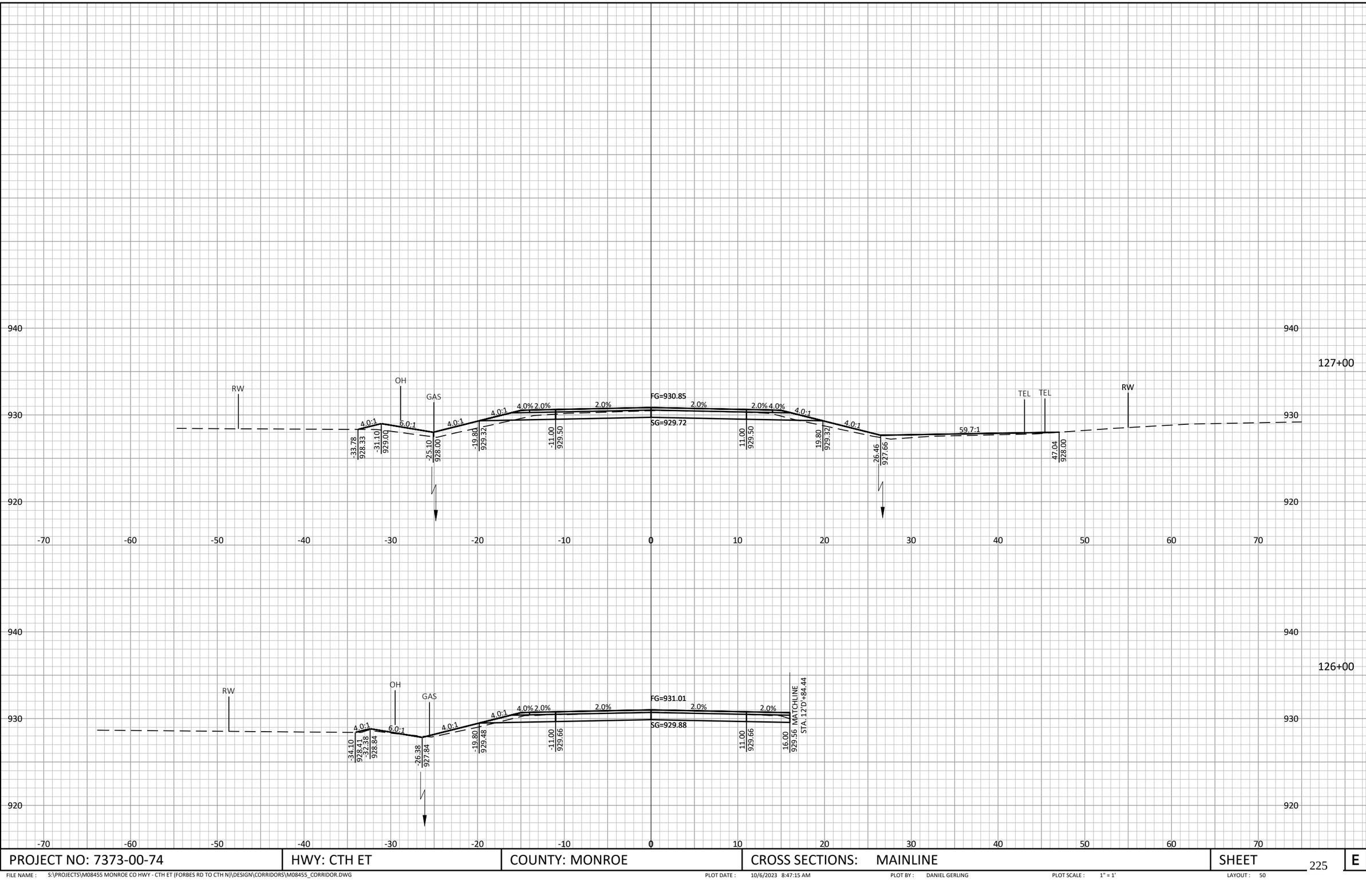
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:46:53 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 48



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 224	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:47:04 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 49

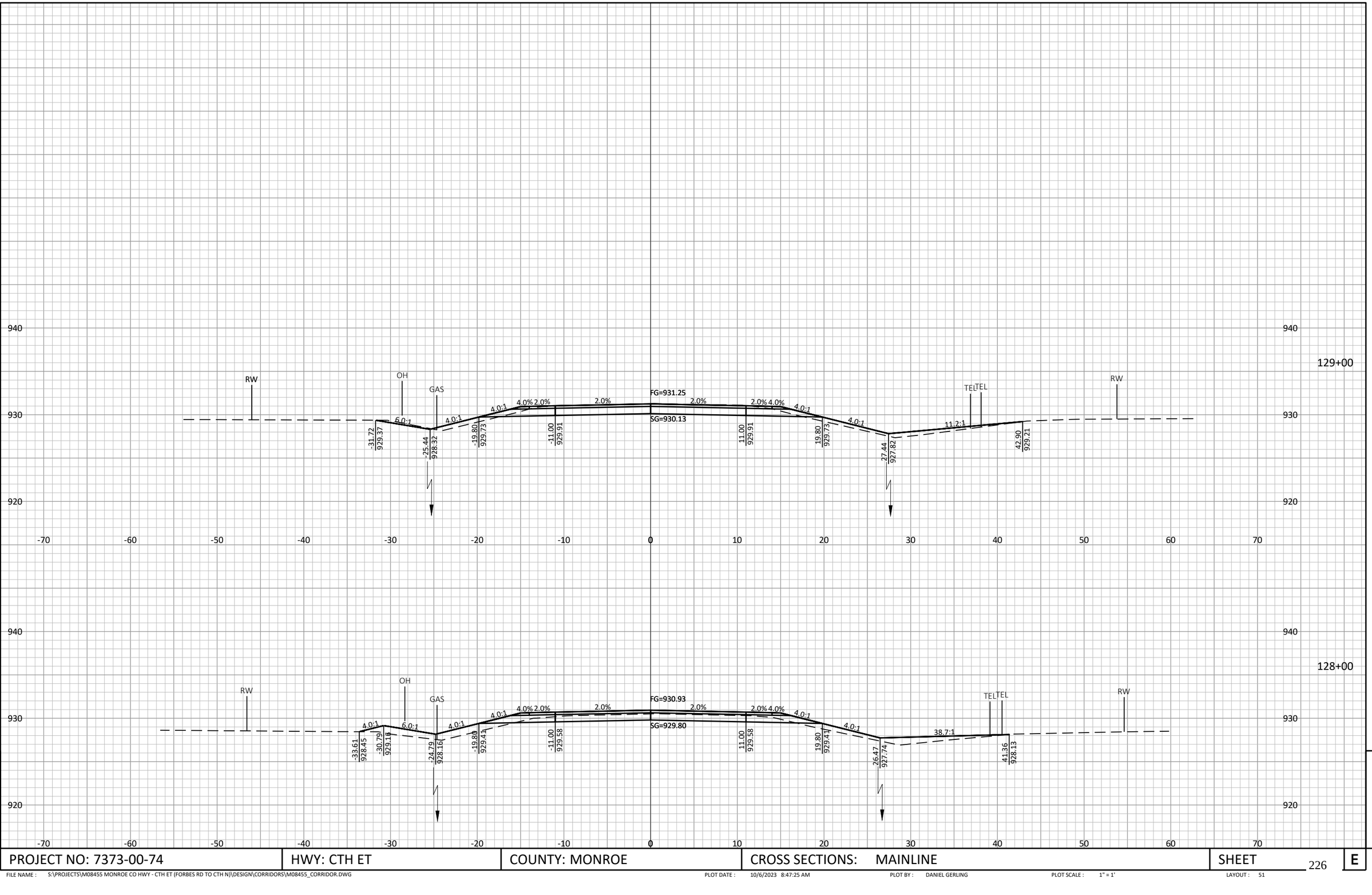


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:47:15 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 50

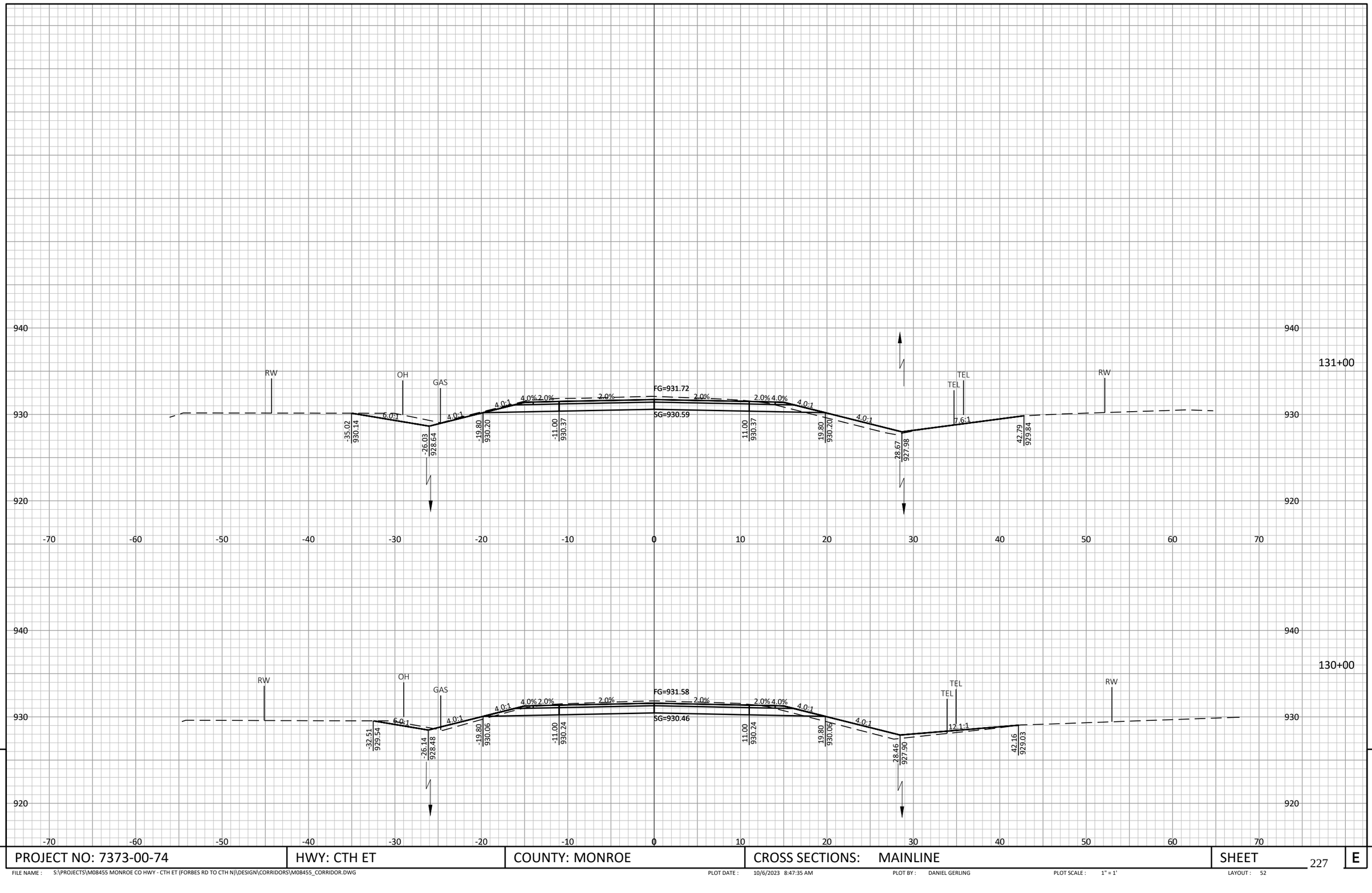


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 226	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:47:25 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 51

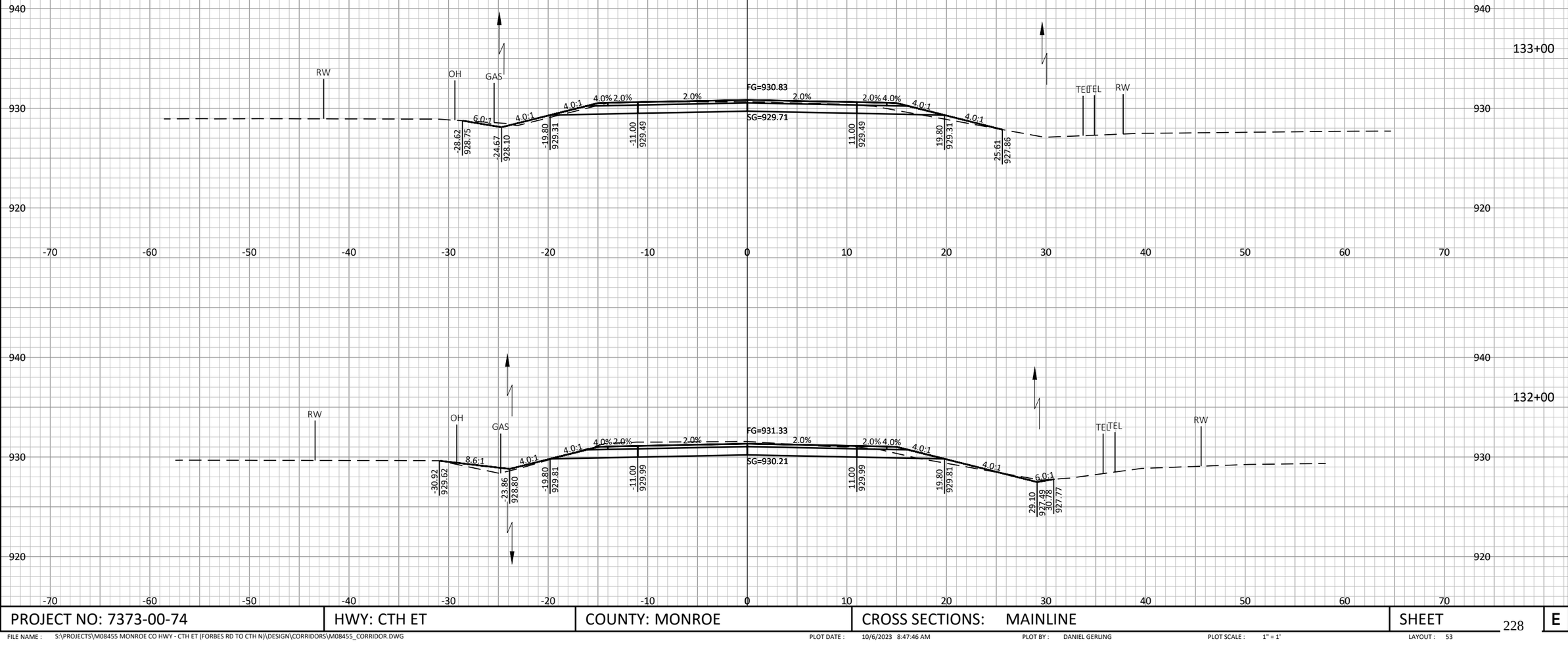


9

9

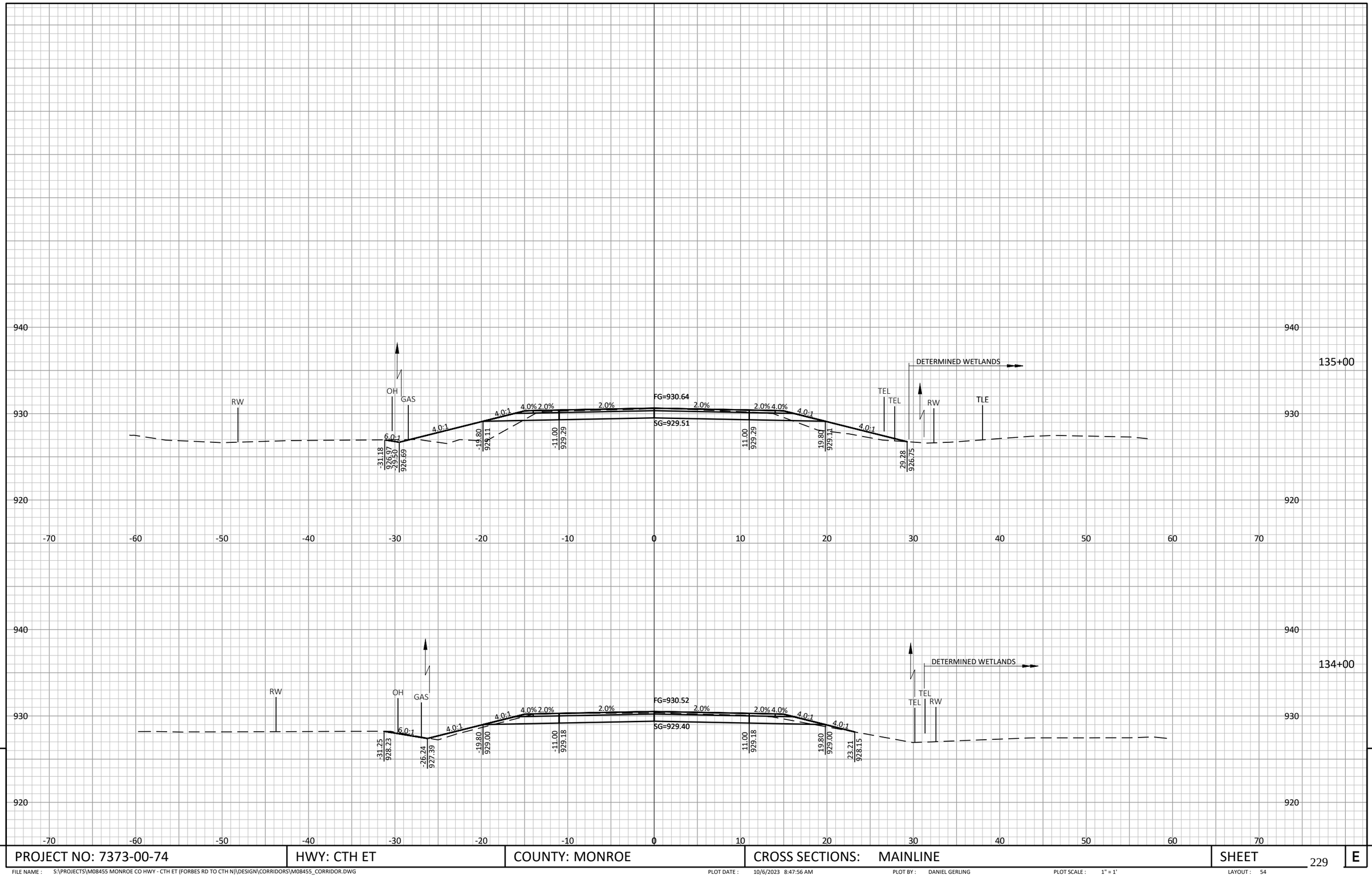
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:47:35 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 52



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:47:46 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 53

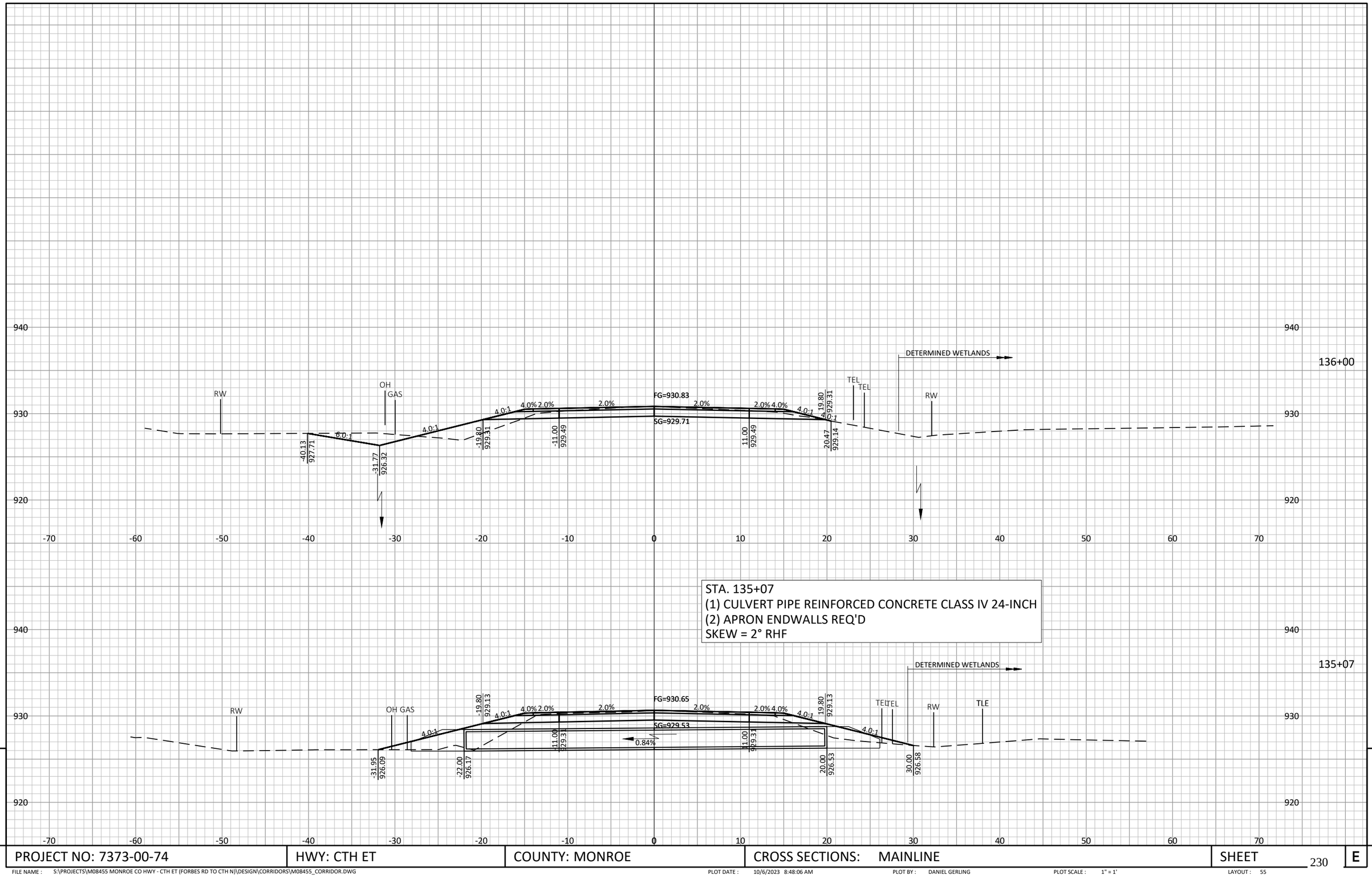


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:47:56 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 54

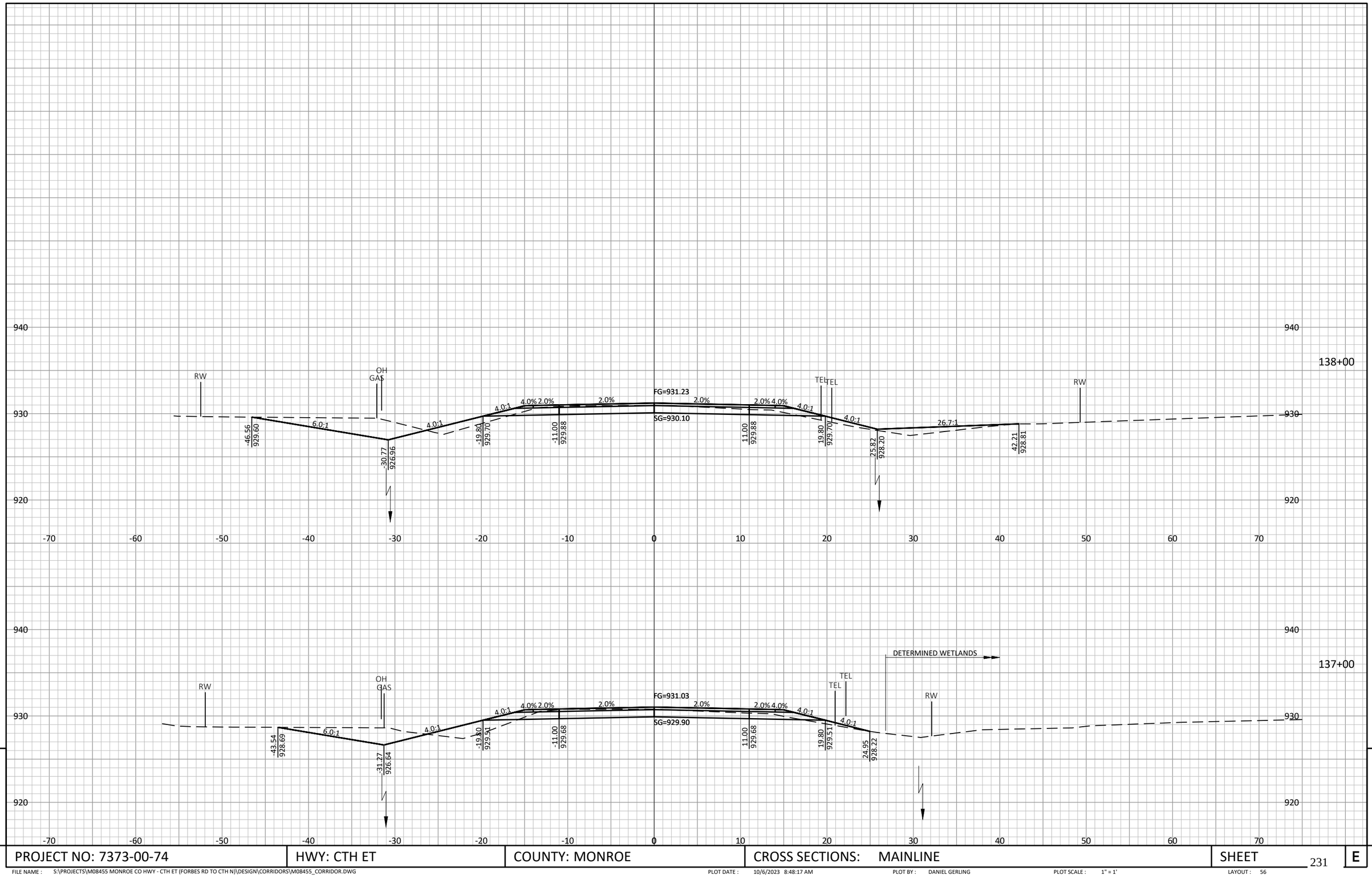


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 230	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:48:06 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 55

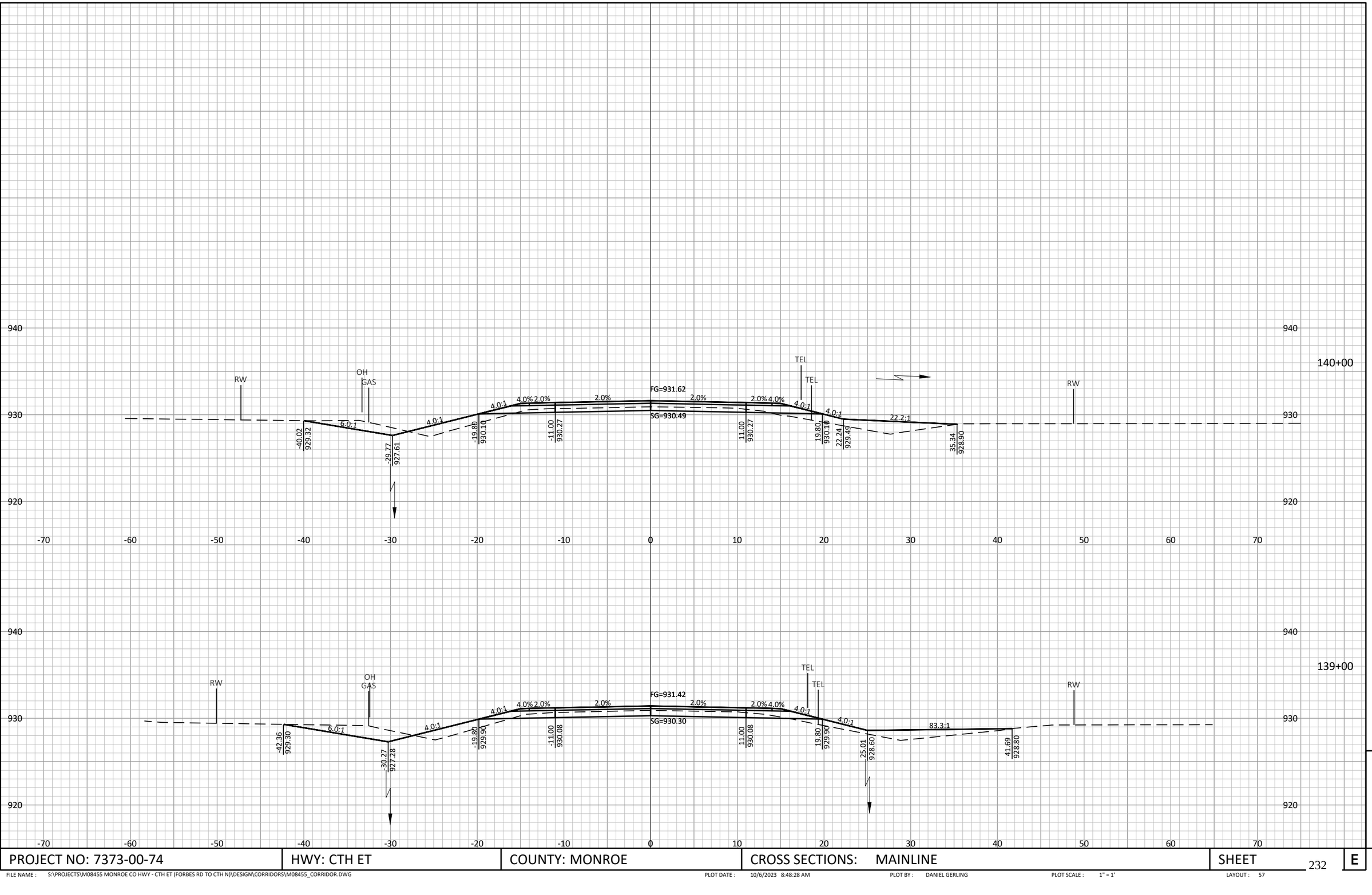


9

9

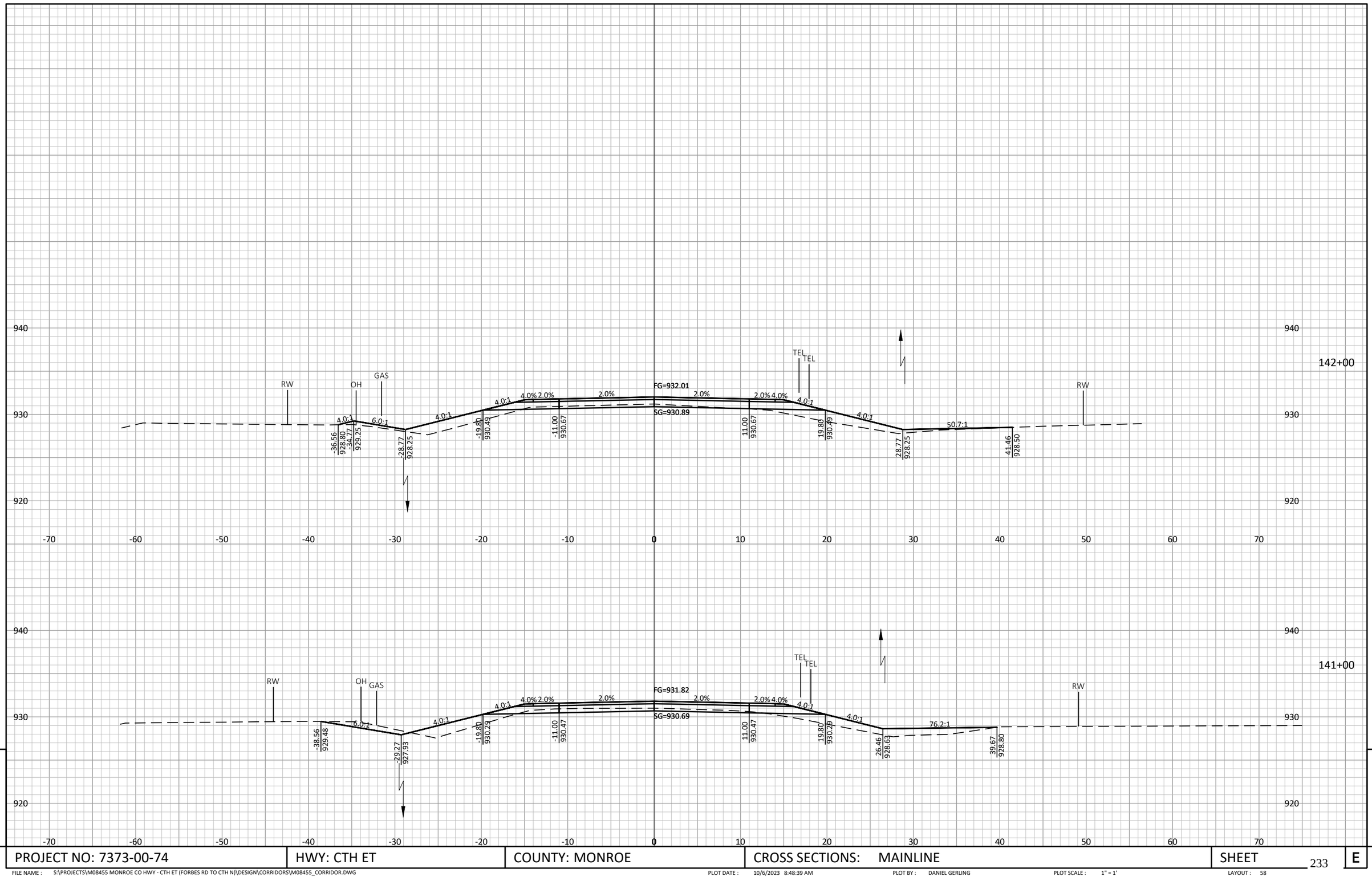
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:48:17 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 56



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

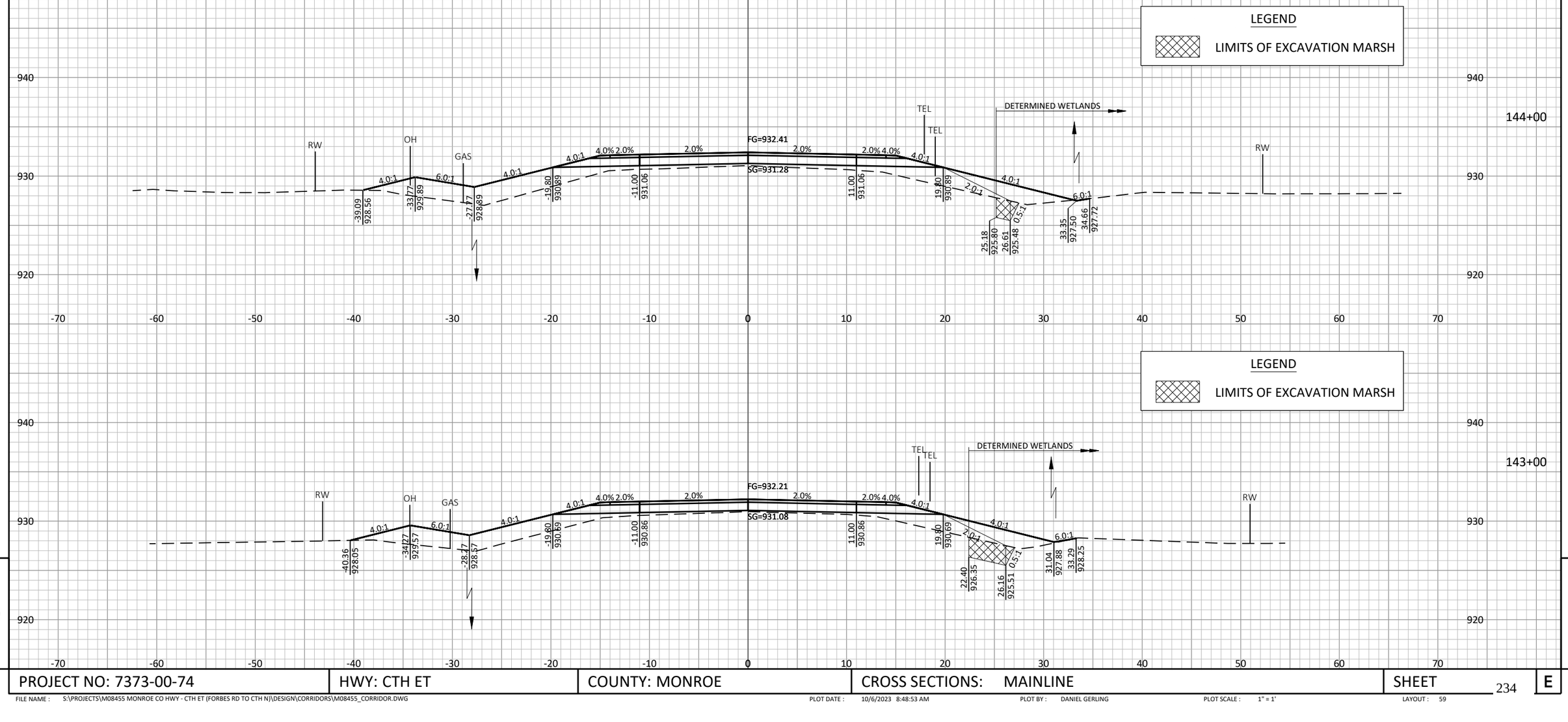
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:48:28 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 57



9 9

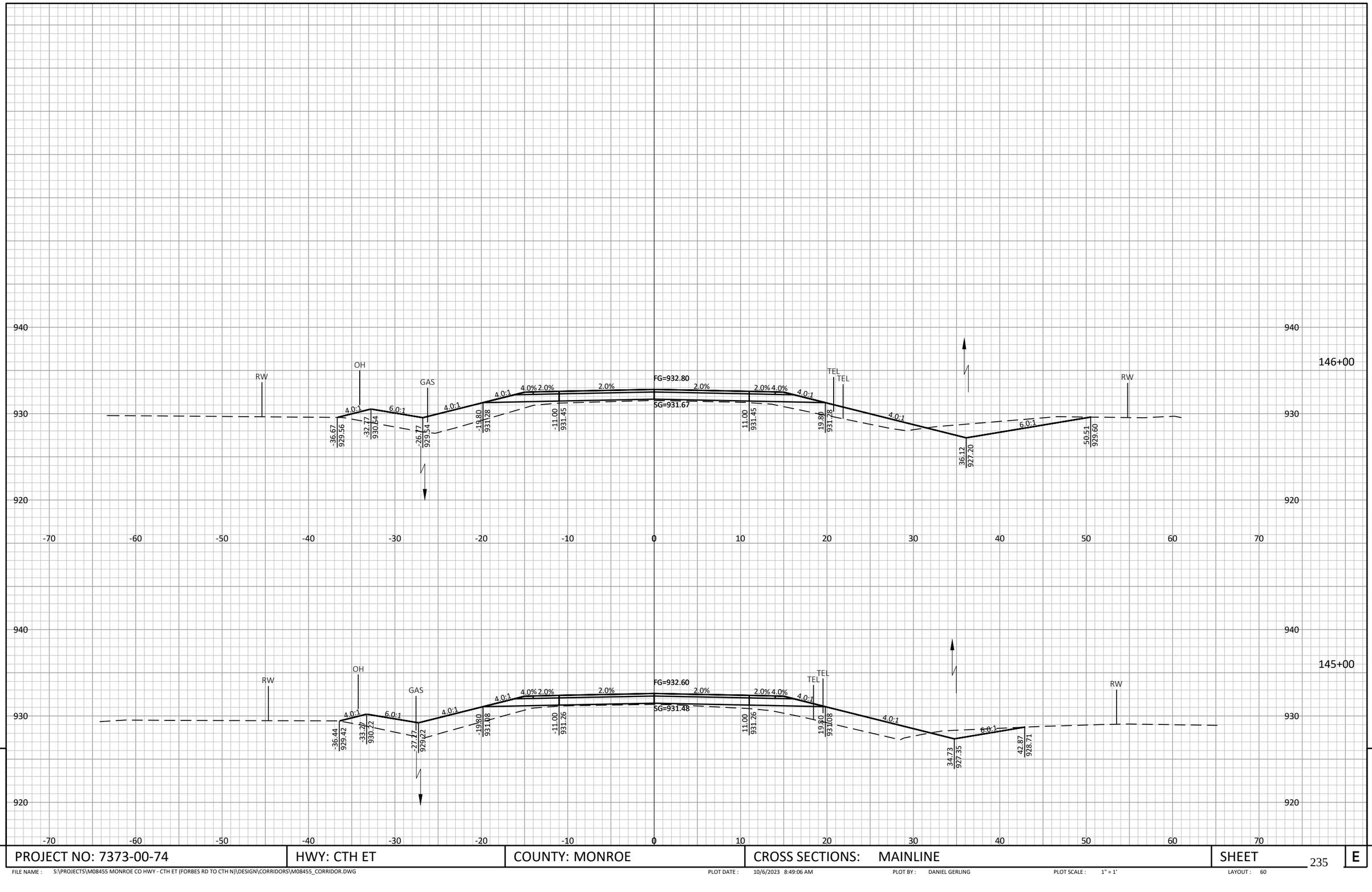
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 233	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:48:39 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 58



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 234	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:48:53 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 59

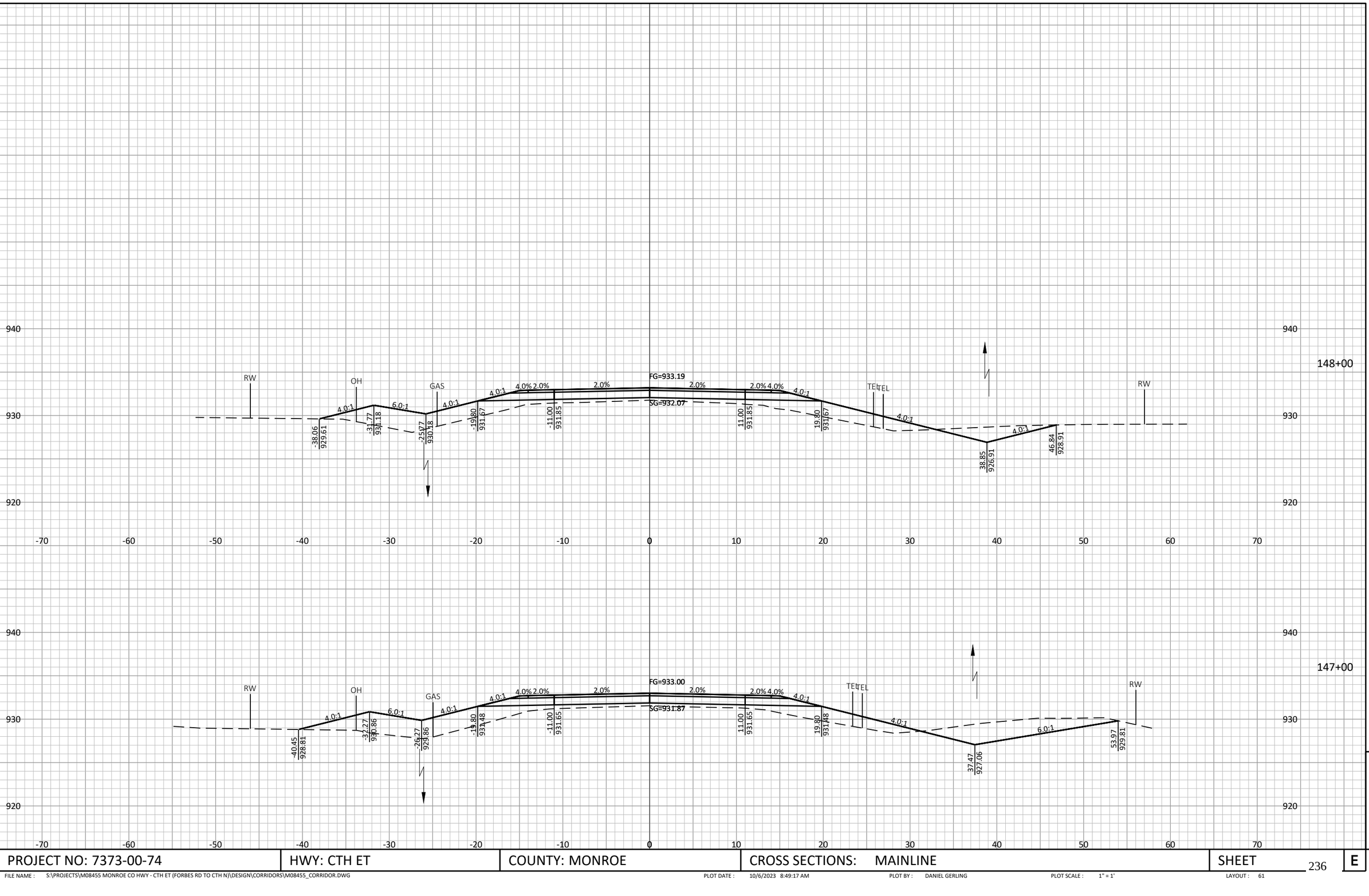


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:49:06 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 60

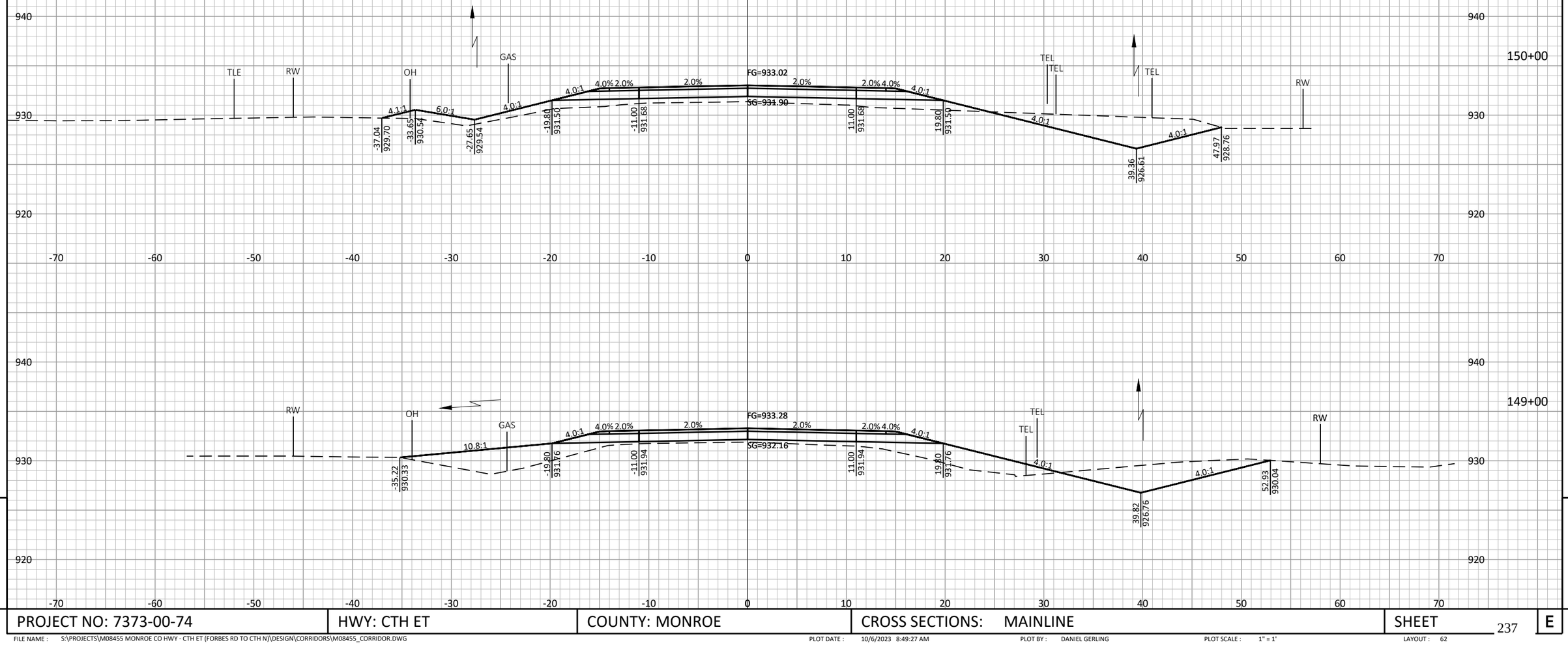


9

9

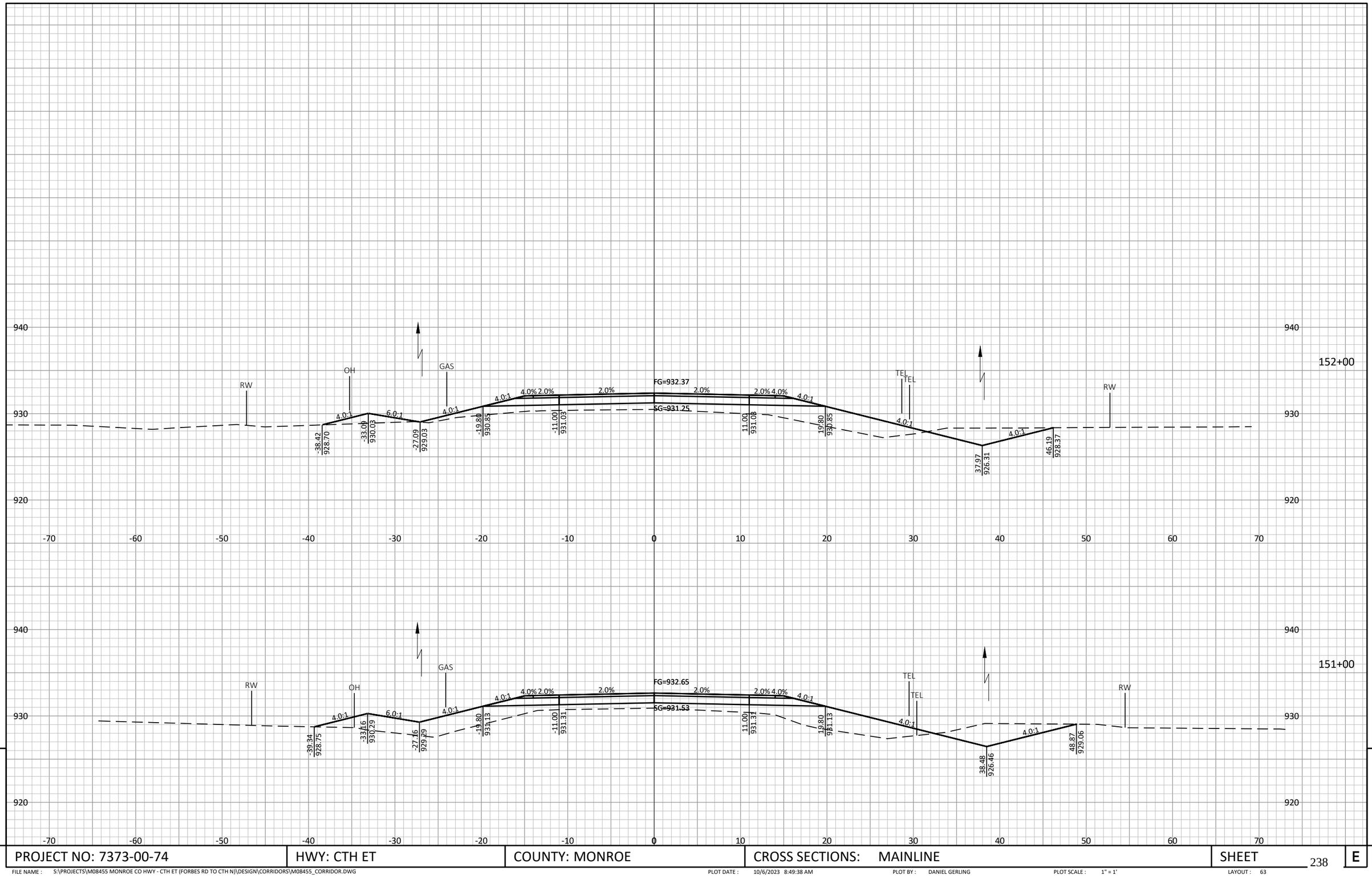
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:49:17 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 61



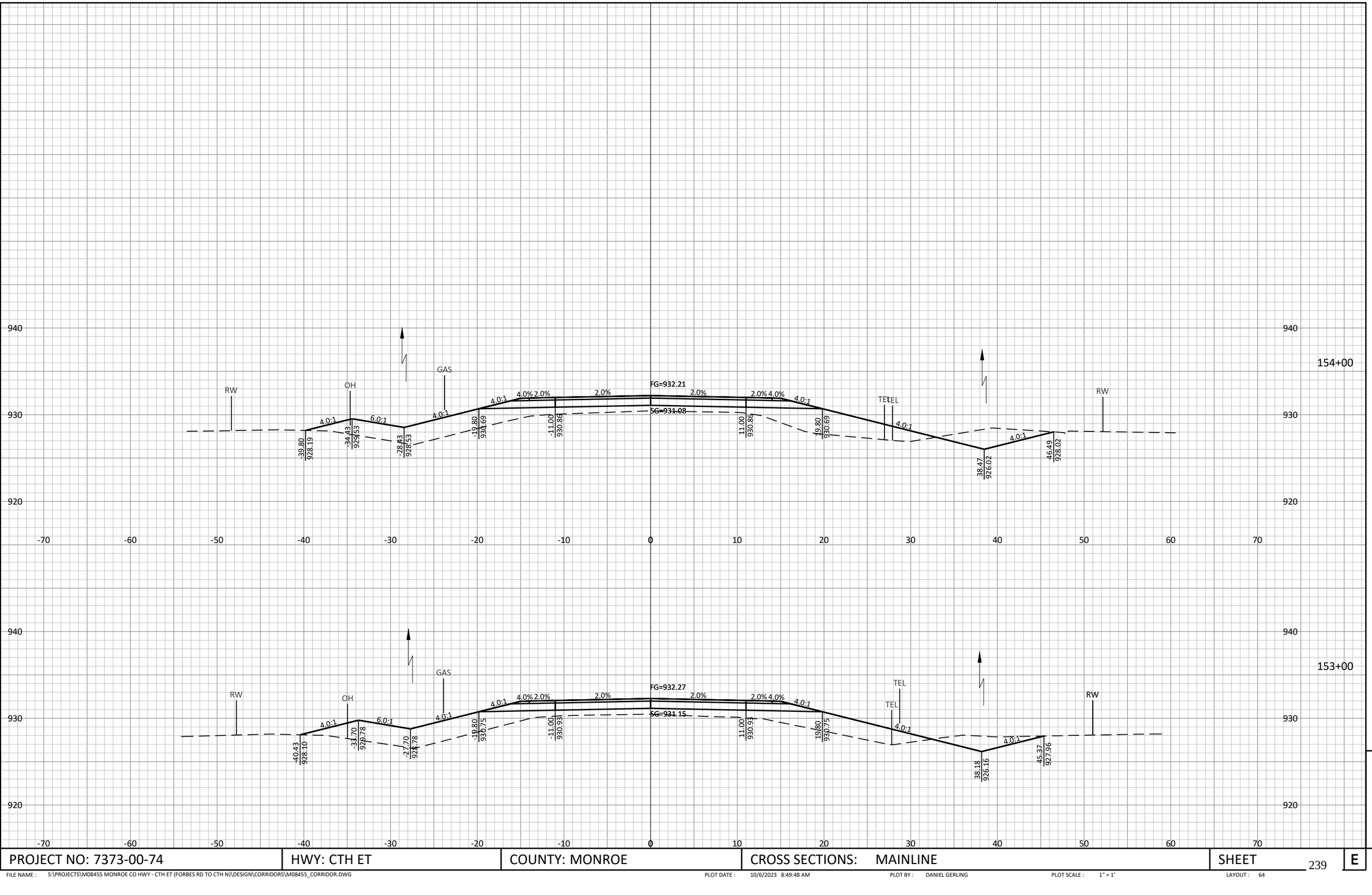
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 237 E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:49:27 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 62



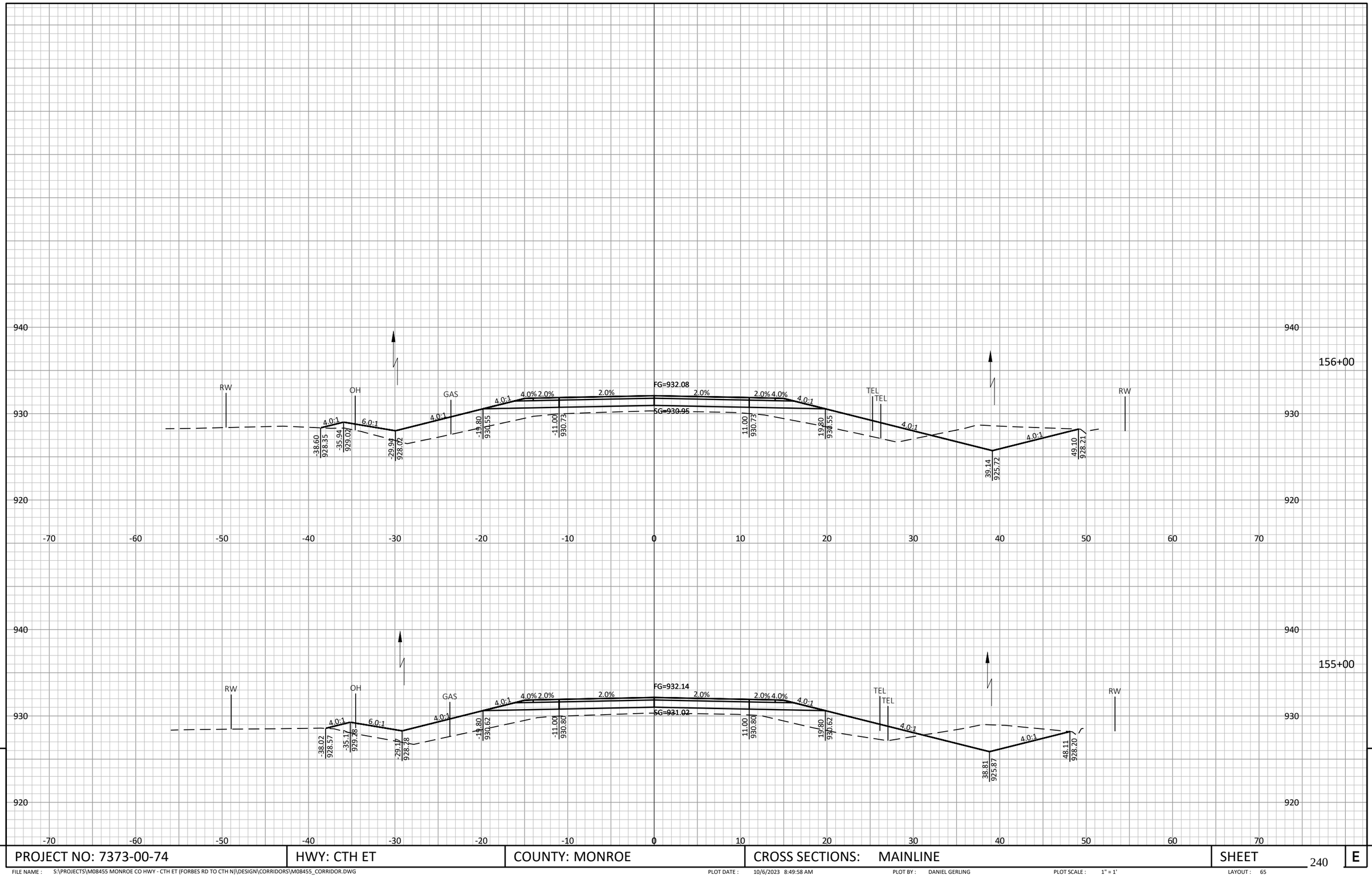
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:49:38 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 63



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 239	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:49:48 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 64

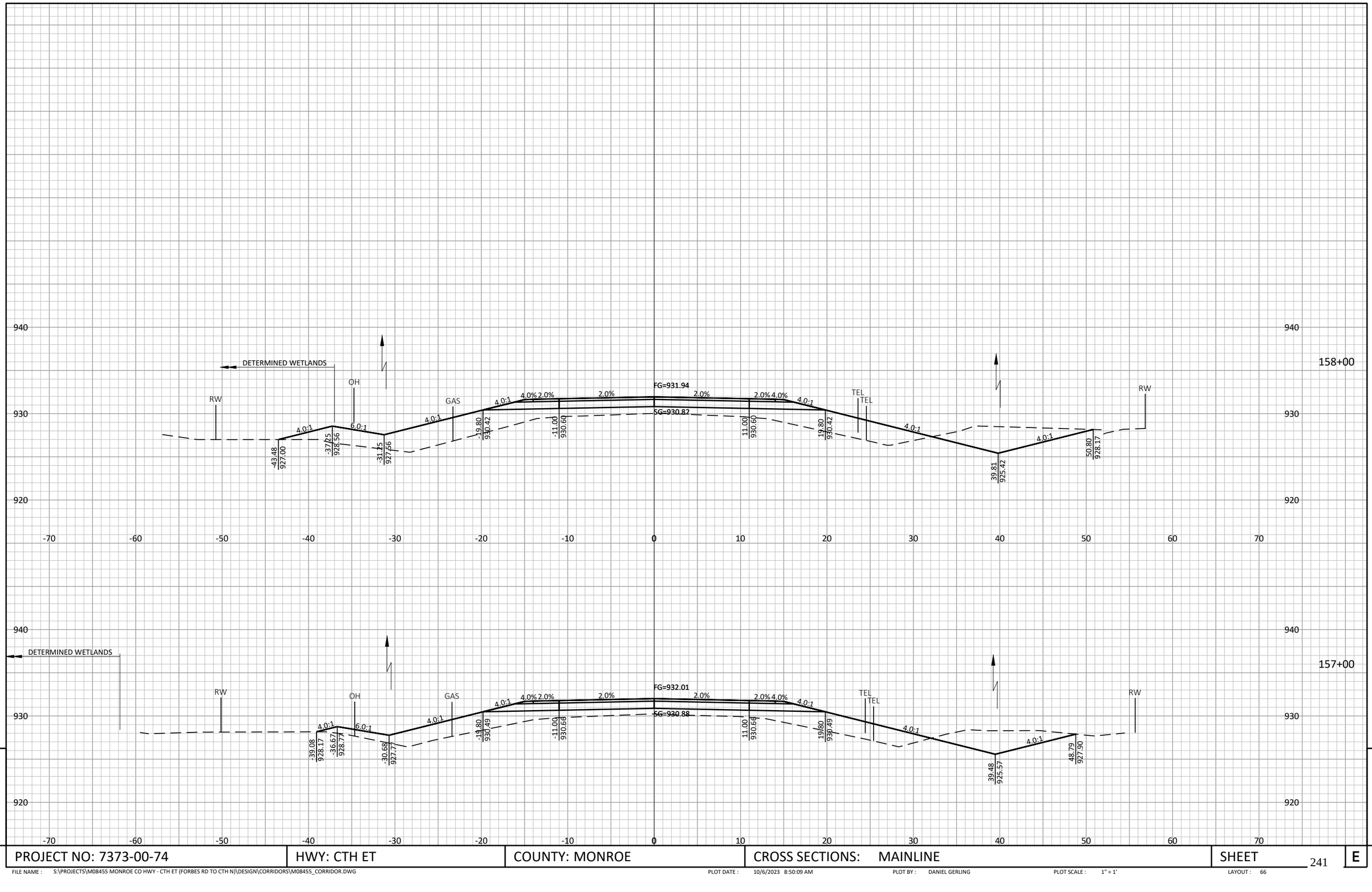


9

9

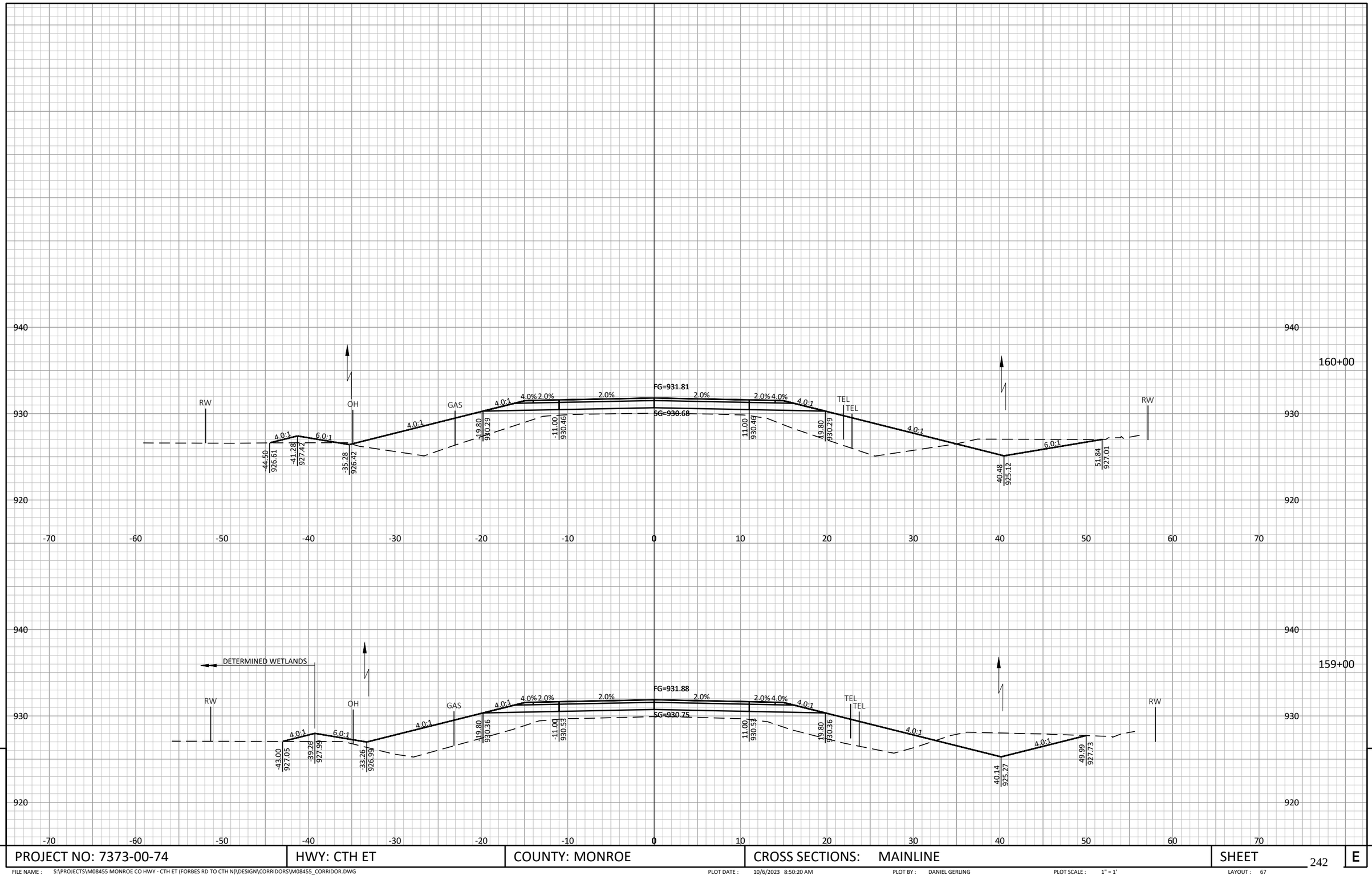
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 240	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:49:58 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 65



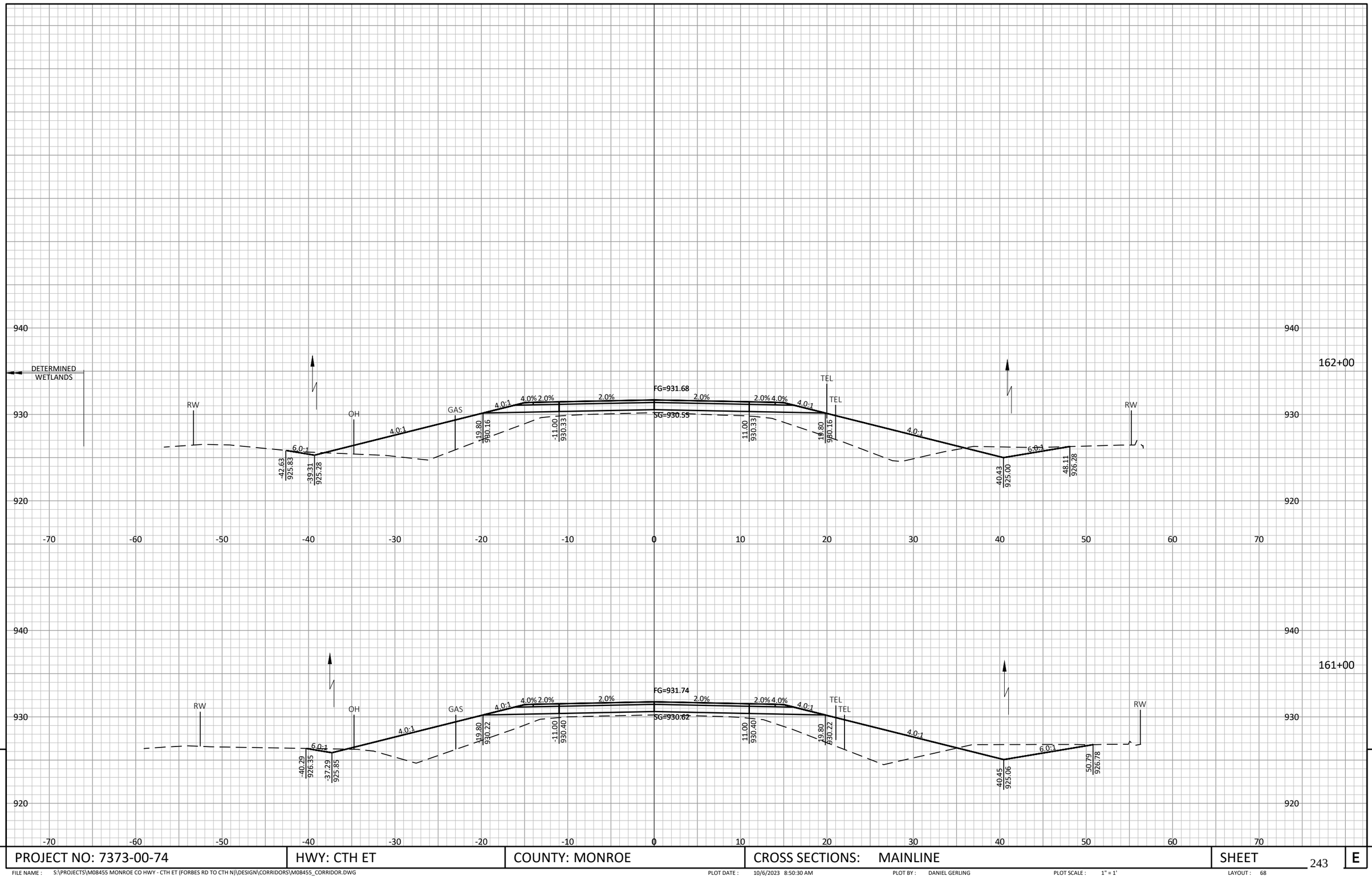
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:50:09 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 66



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:50:20 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 67

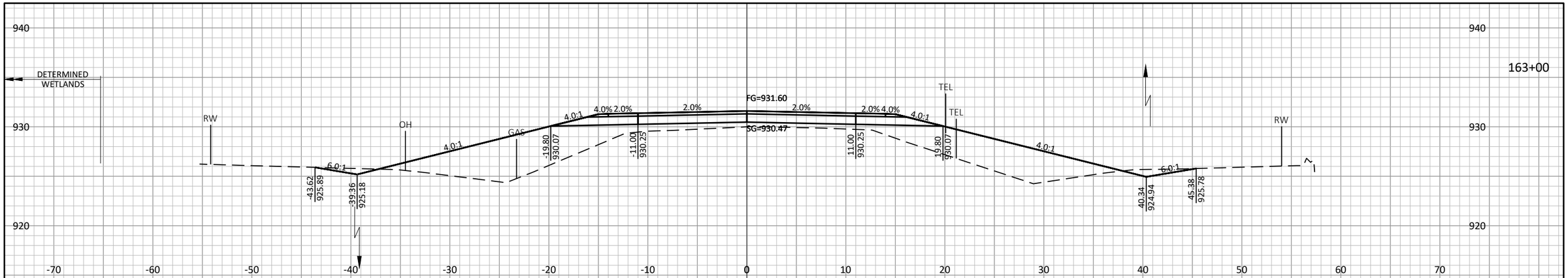


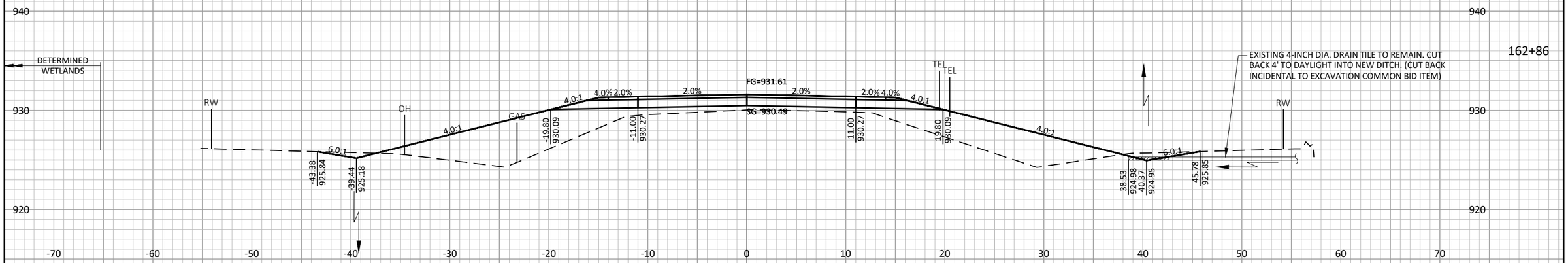
9

9

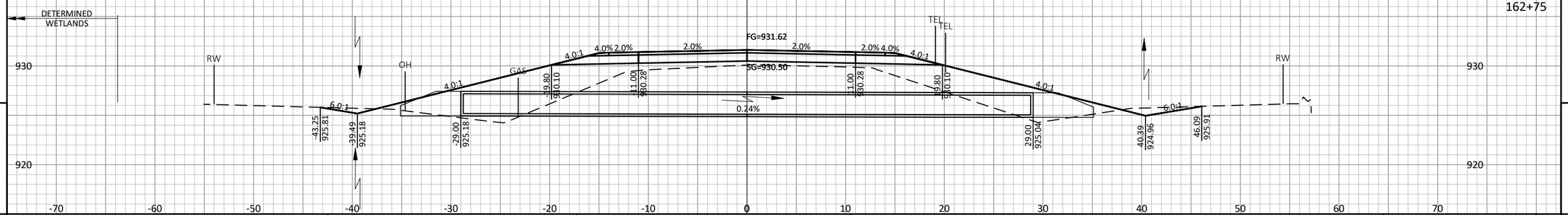
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 243	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:50:30 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 68



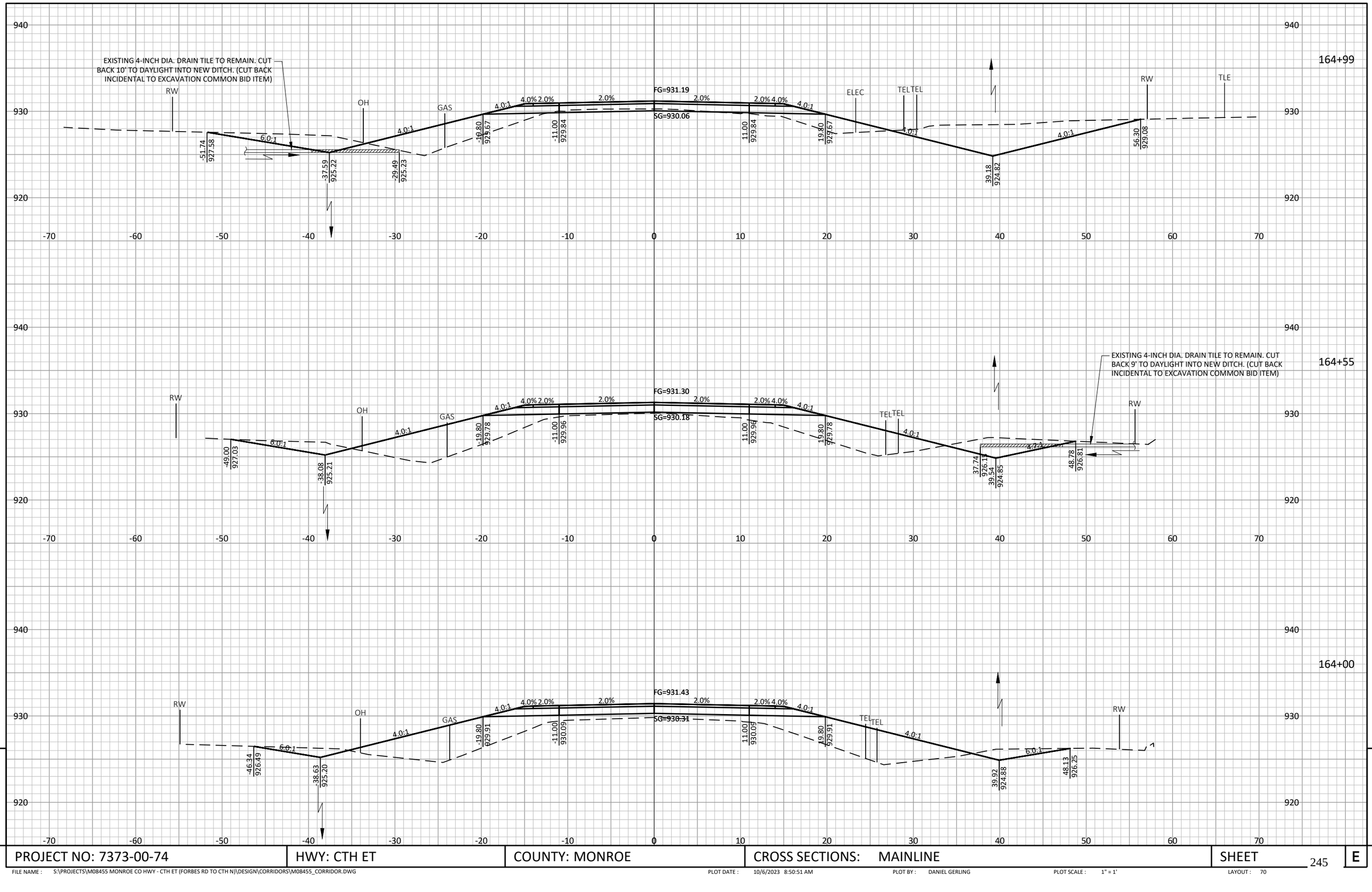


STA. 162+75
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 0°



9 9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 244	E

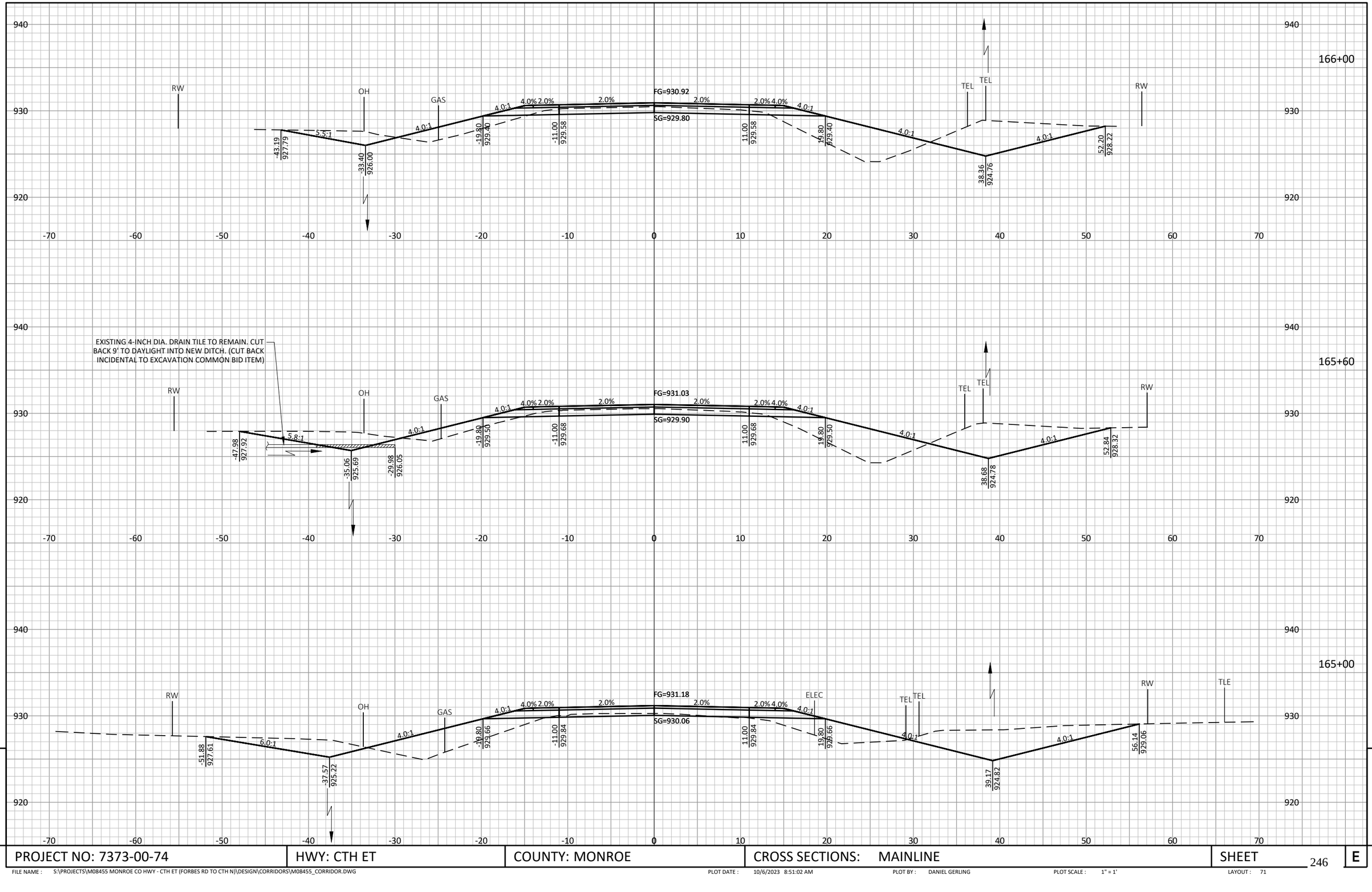


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:50:51 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 70

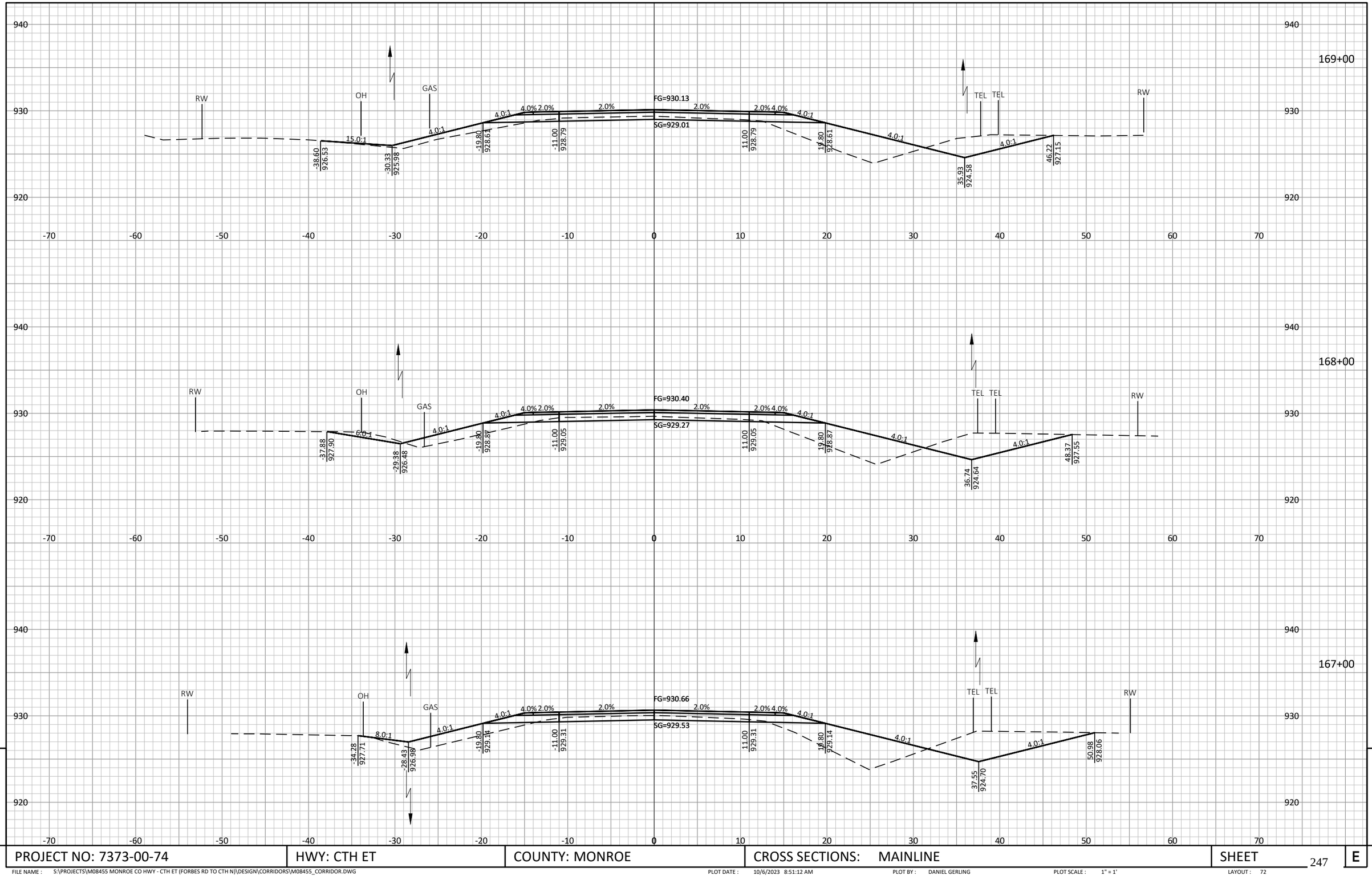


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 246	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:51:02 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 71



9

9

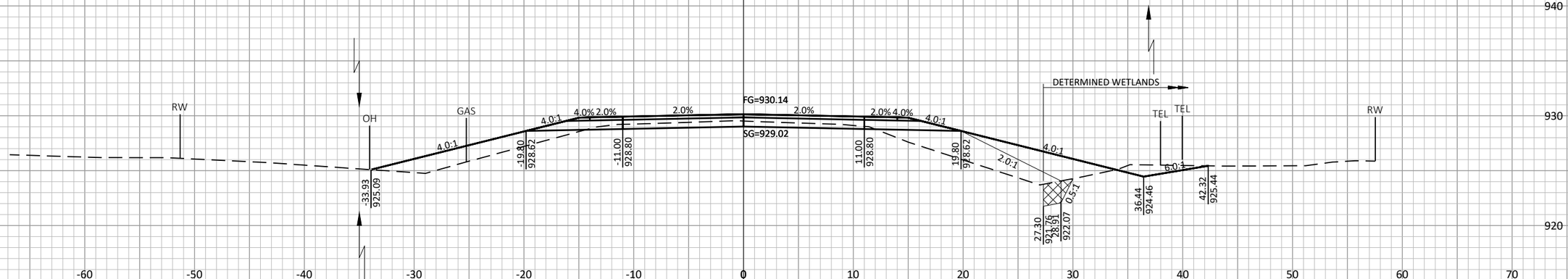
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:51:12 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 72

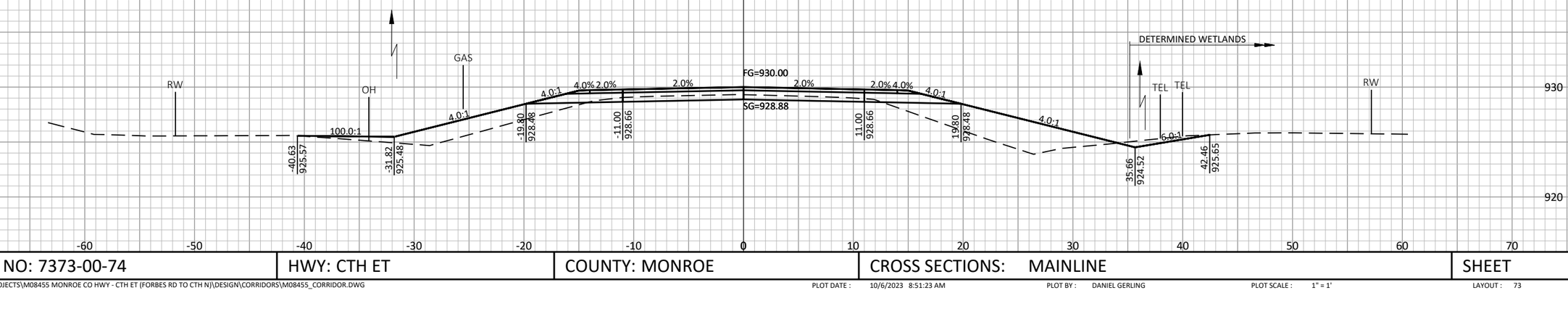
LEGEND

LIMITS OF EXCAVATION MARSH

171+00



170+00

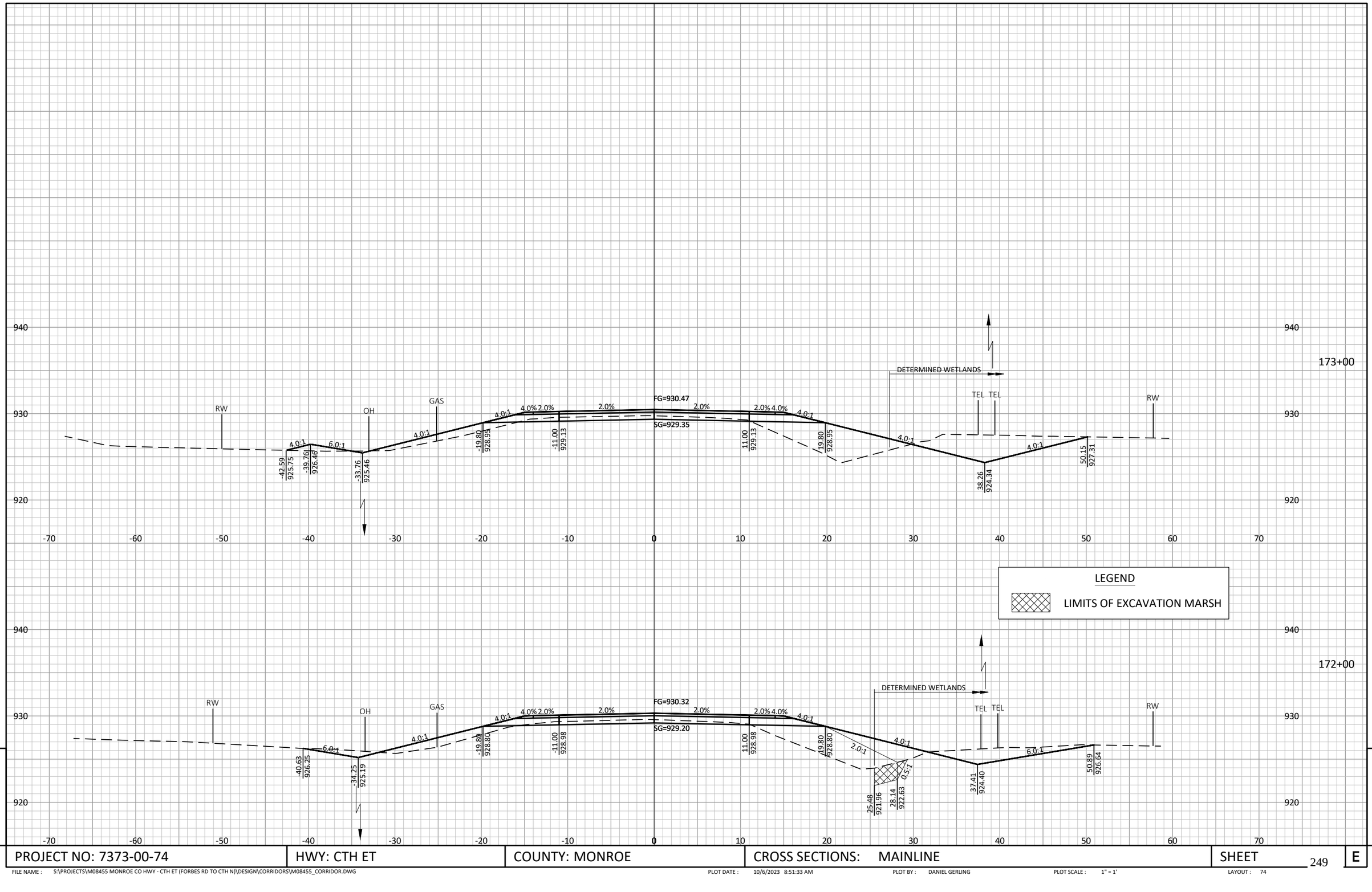


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 248	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:51:23 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 73

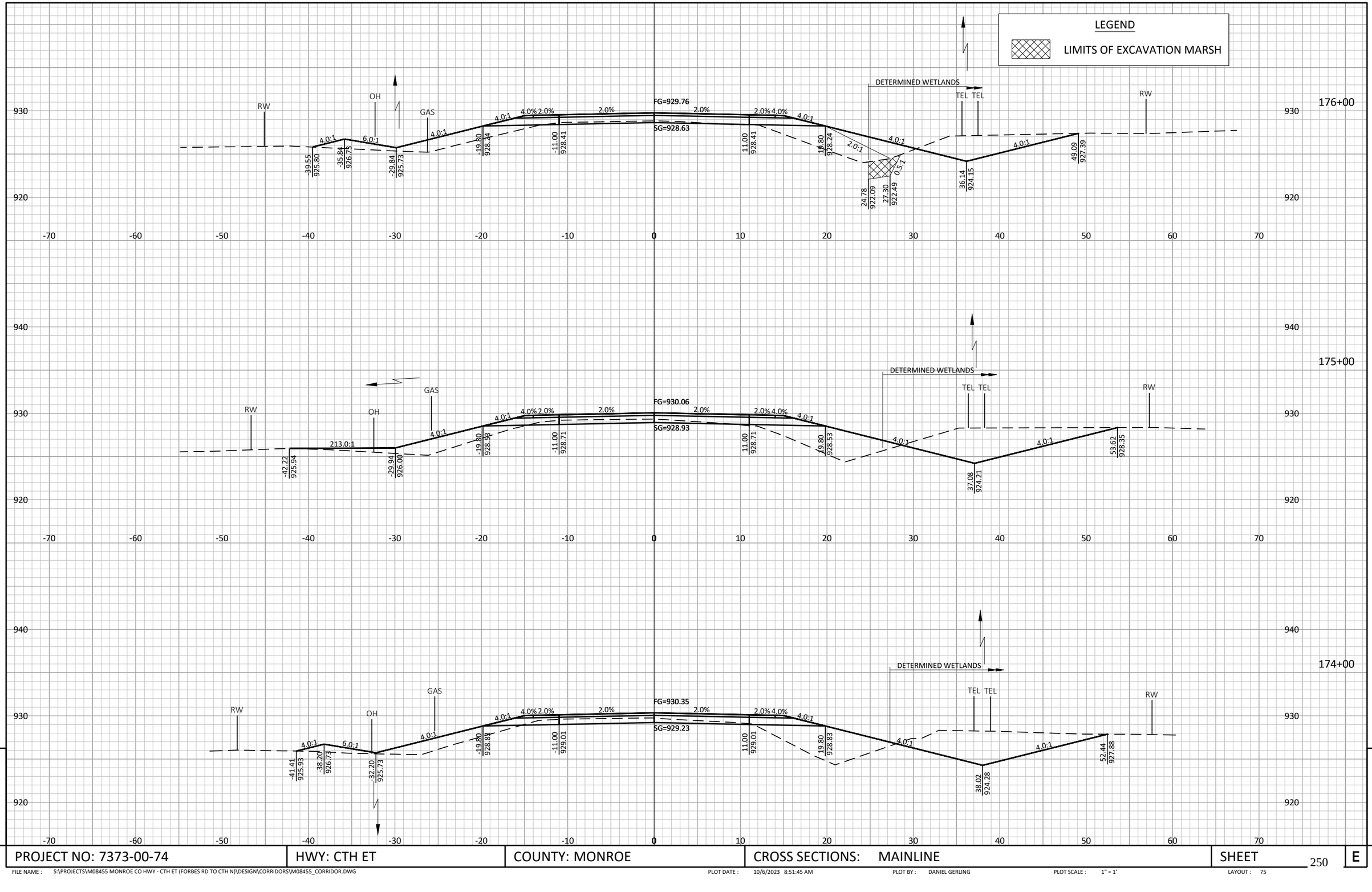


PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 249	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:51:33 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 74

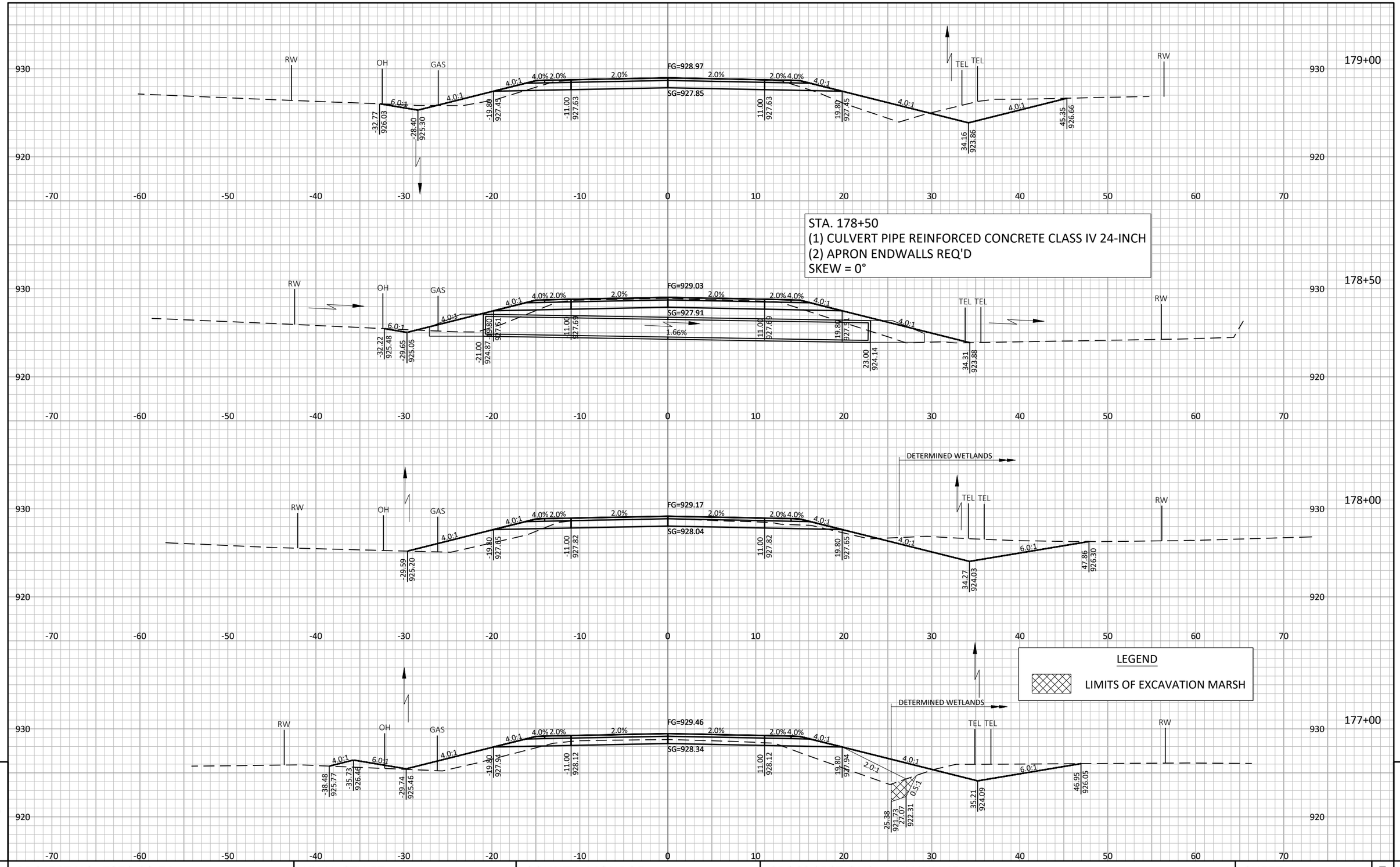
LEGEND

LIMITS OF EXCAVATION MARSH



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 250	E

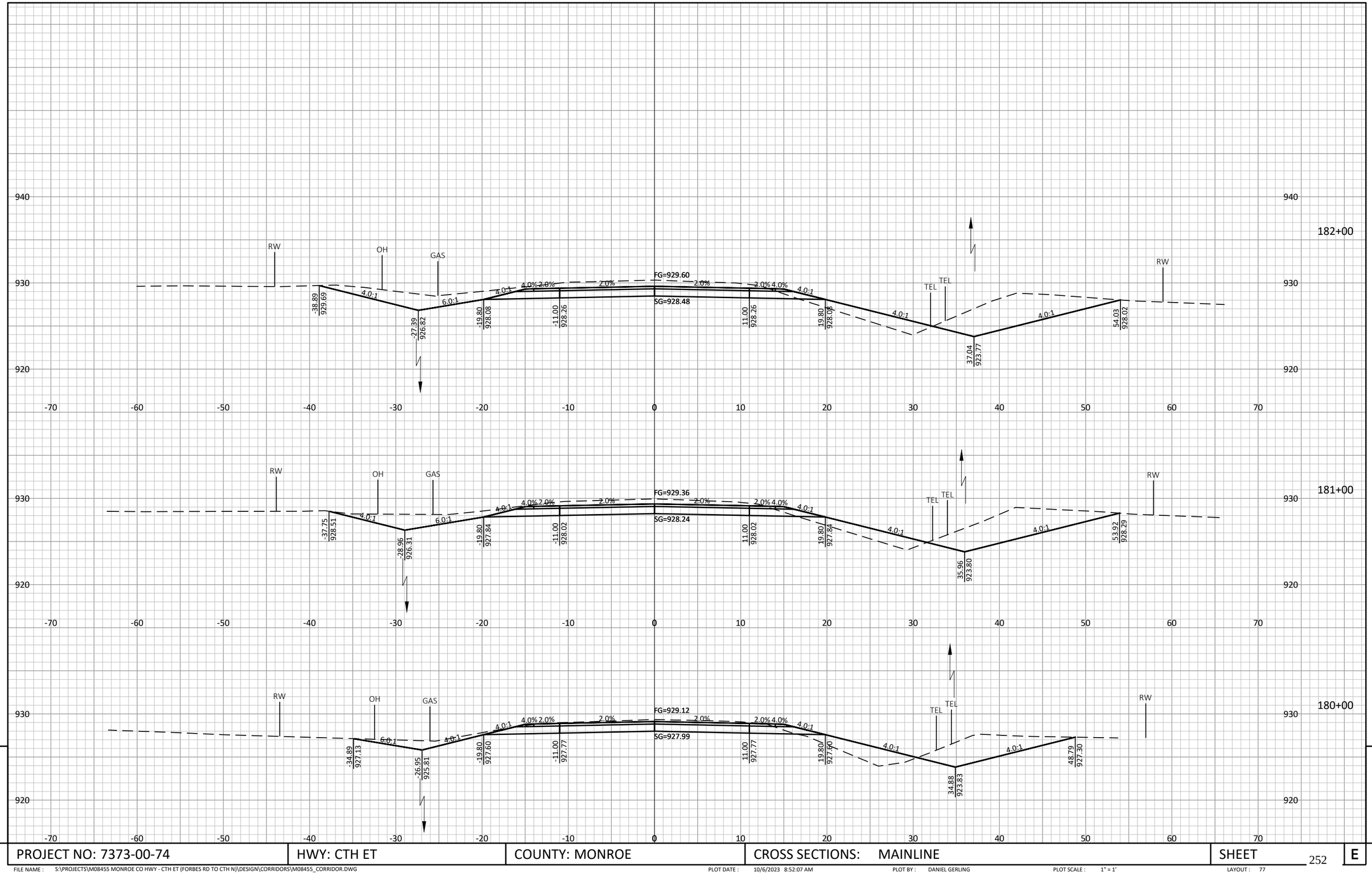
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:51:45 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 75



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 251

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:51:56 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 76

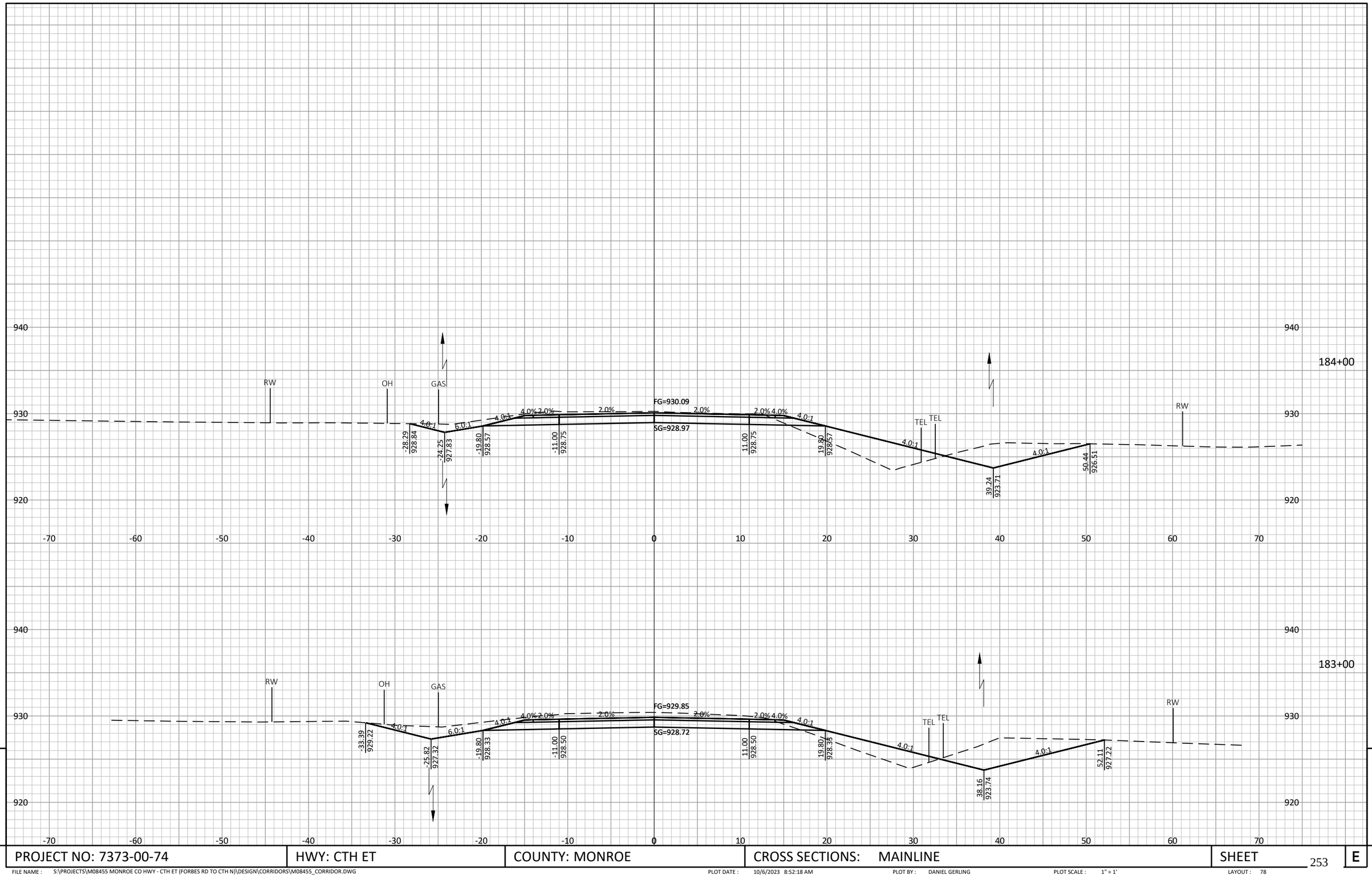
9 E



9

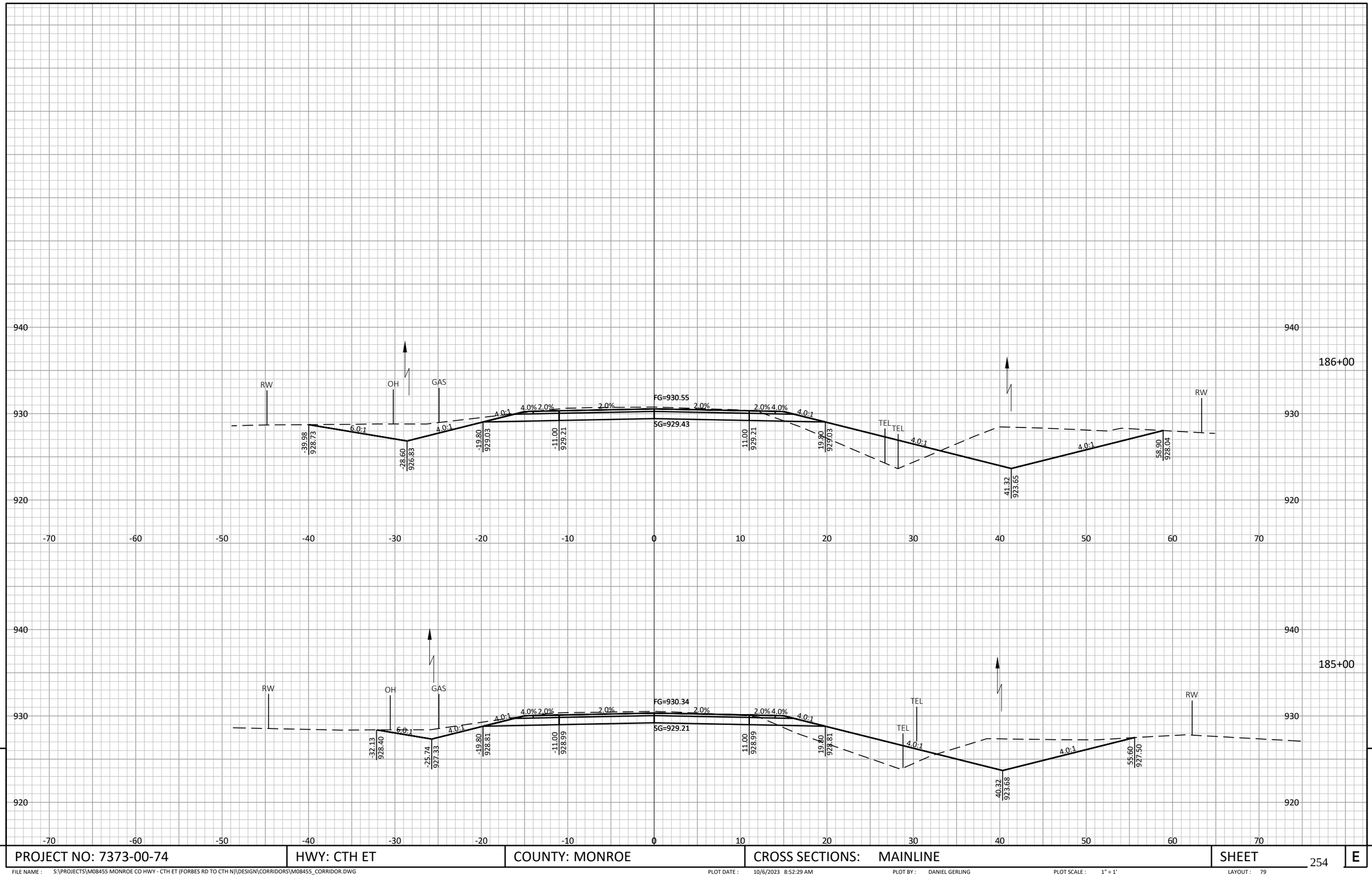
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 252	E



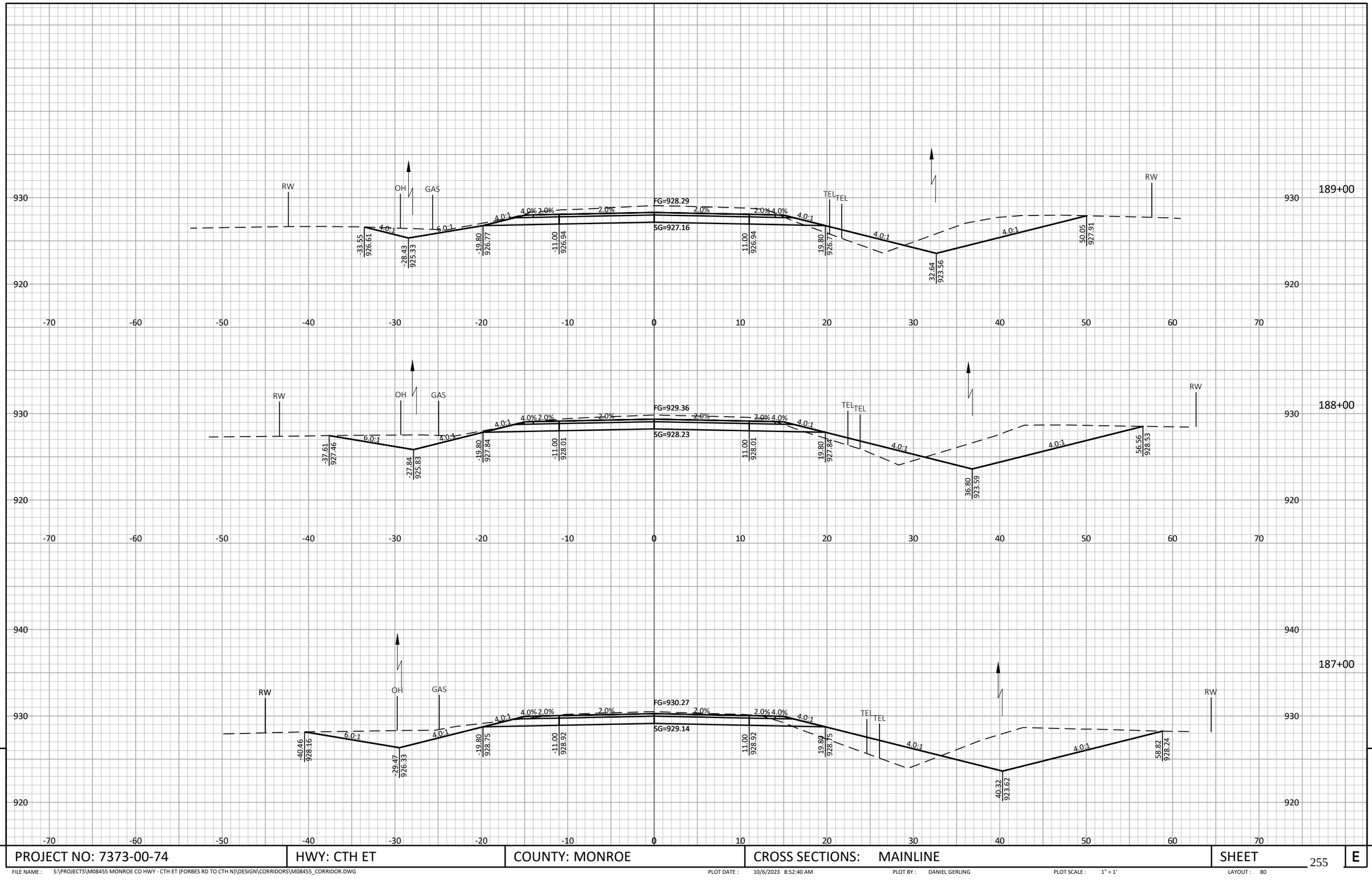
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	
				253	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:52:18 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 78



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 254	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:52:29 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 79



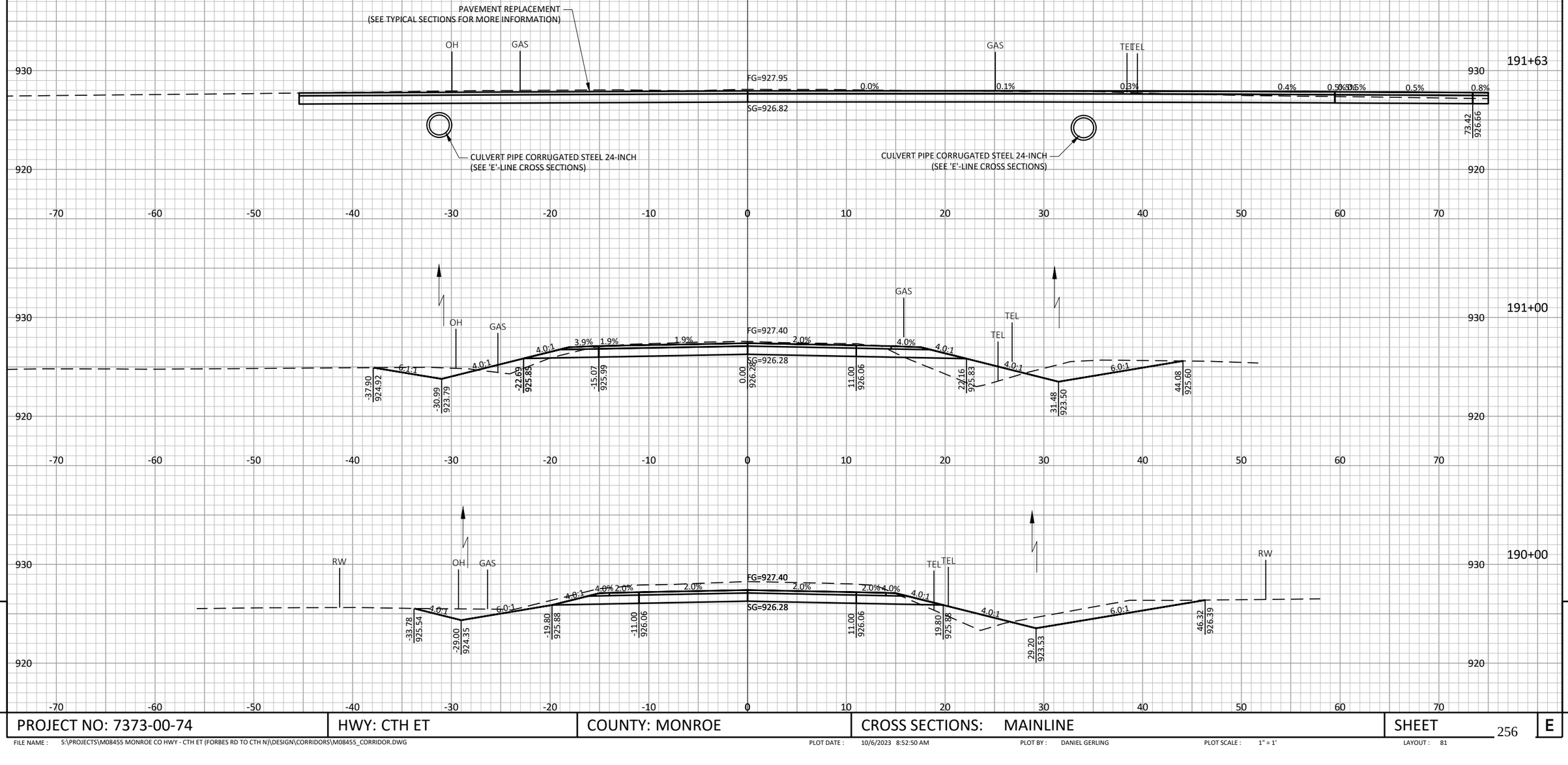
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:52:40 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 80

END PROJECT
STA. 192+63.10
MATCH 'E'-LINE



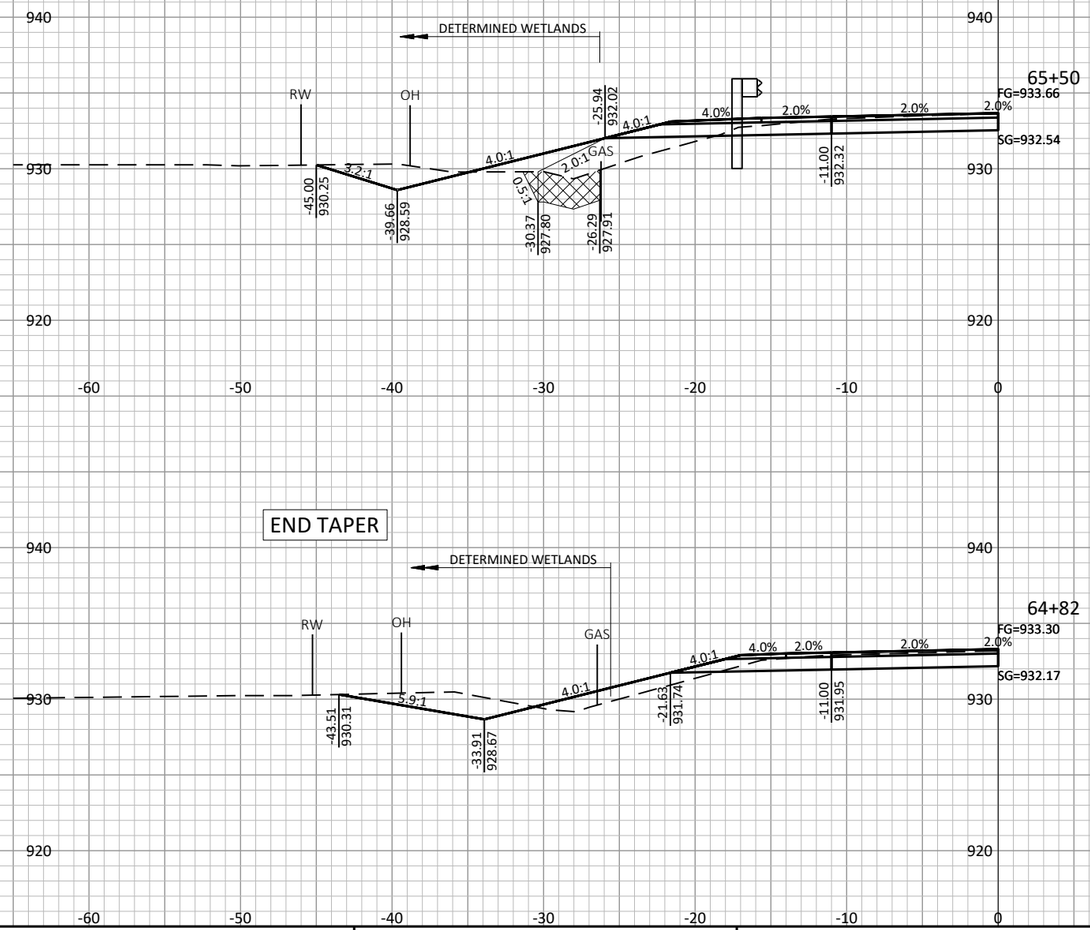
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET 256	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:52:50 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 81

LEGEND

LIMITS OF EXCAVATION MARSH

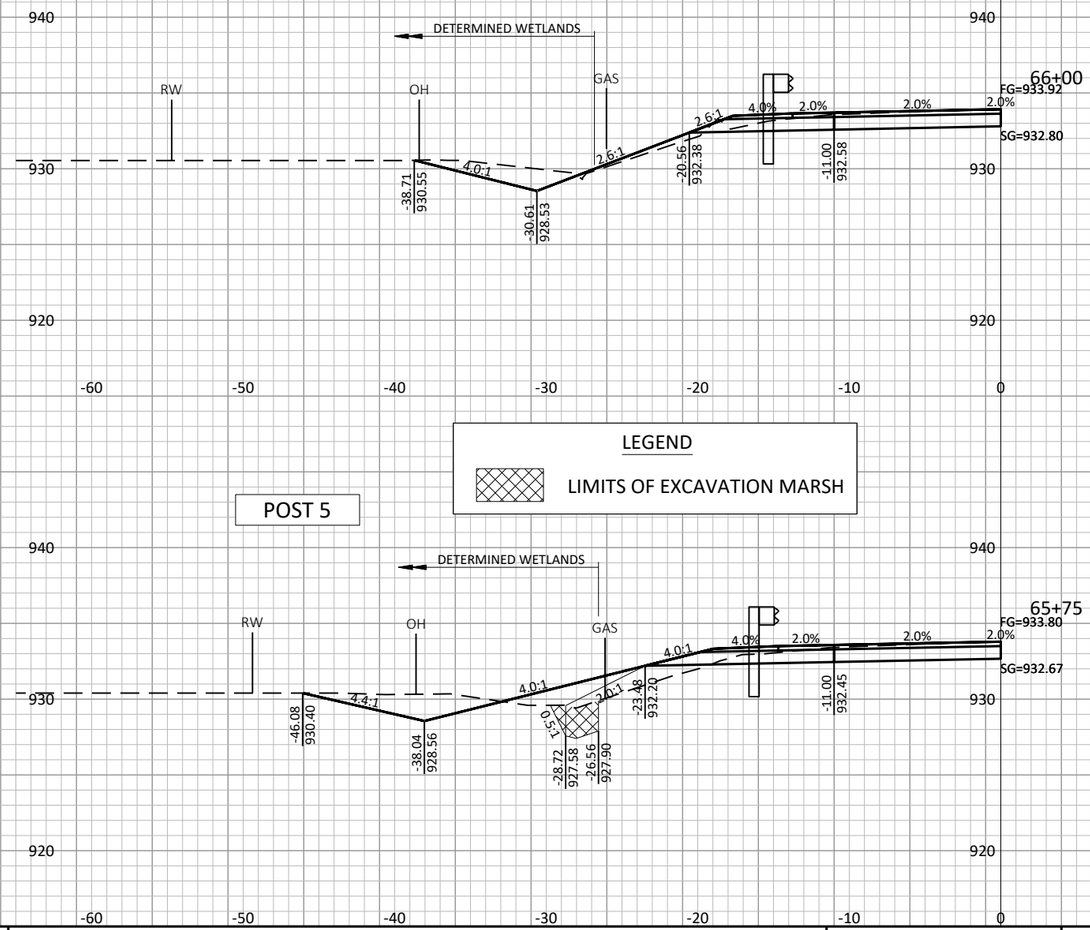
POST 1



LEGEND

LIMITS OF EXCAVATION MARSH

POST 9



END TAPER

LEGEND

LIMITS OF EXCAVATION MARSH

POST 5

9

9

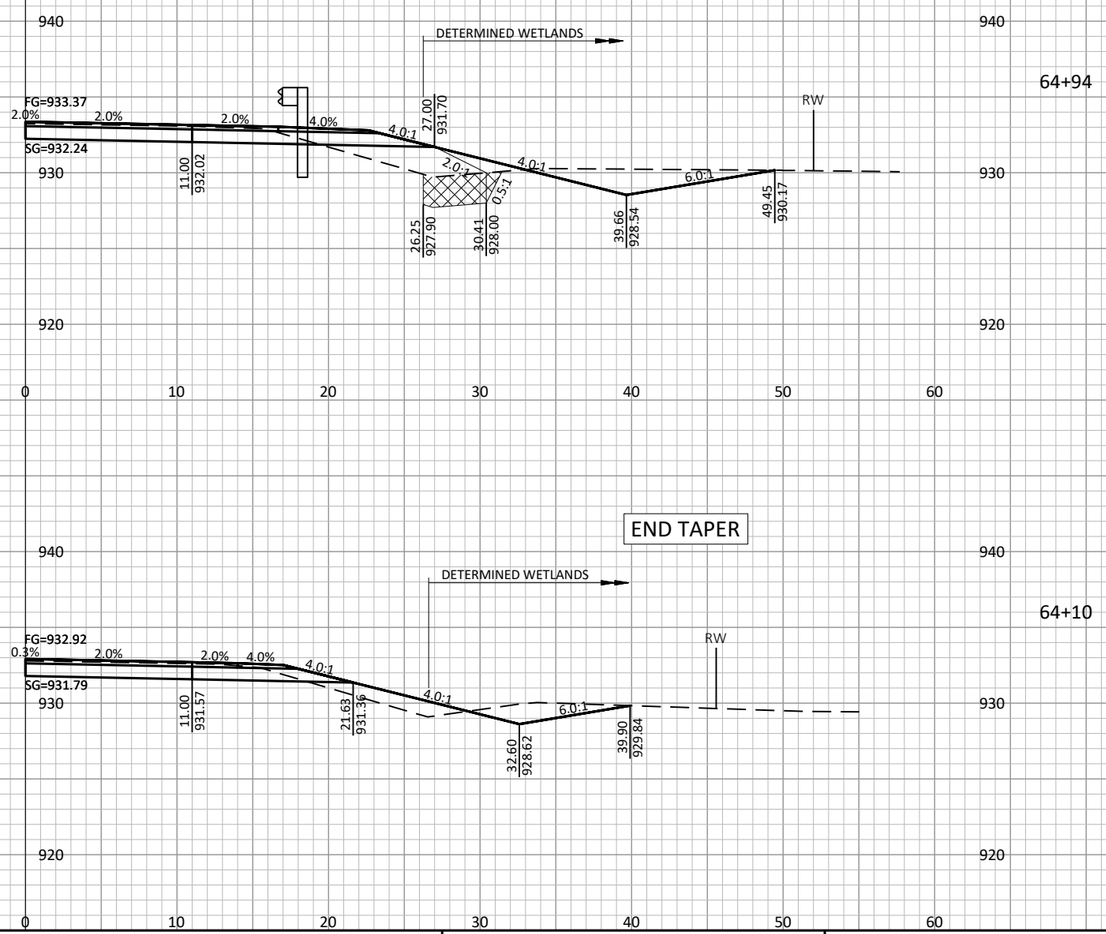
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET 257	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:53:03 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 82

LEGEND

LIMITS OF EXCAVATION MARSH

POST 1

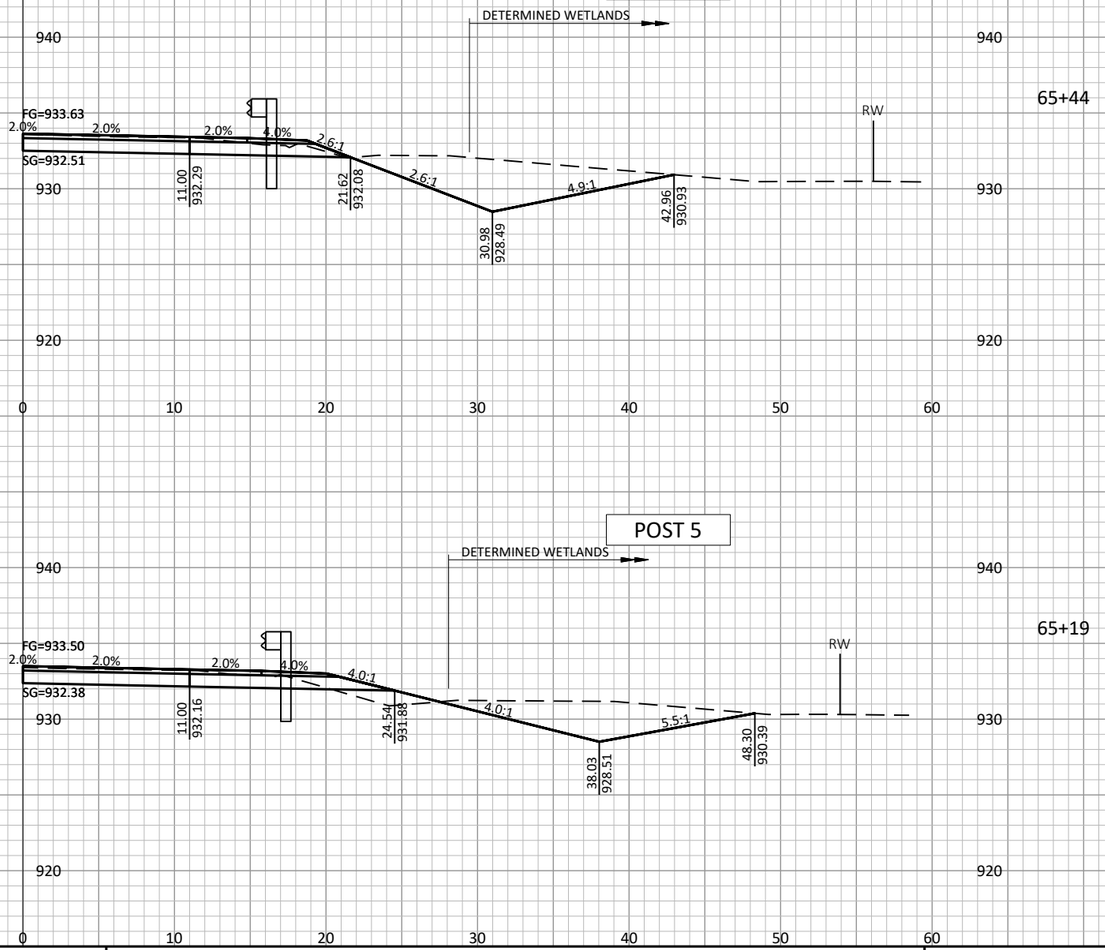


64+94

END TAPER

64+10

POST 9



65+44

POST 5

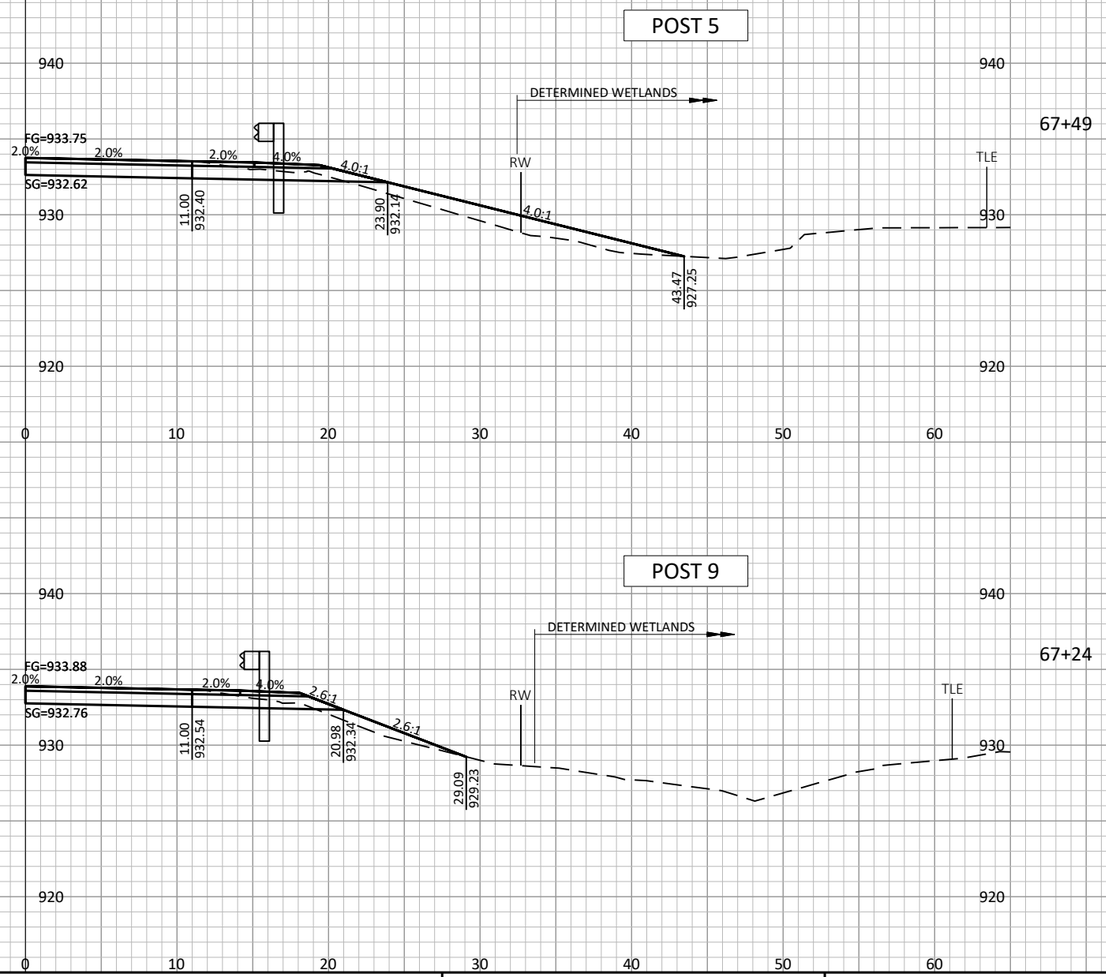
65+19

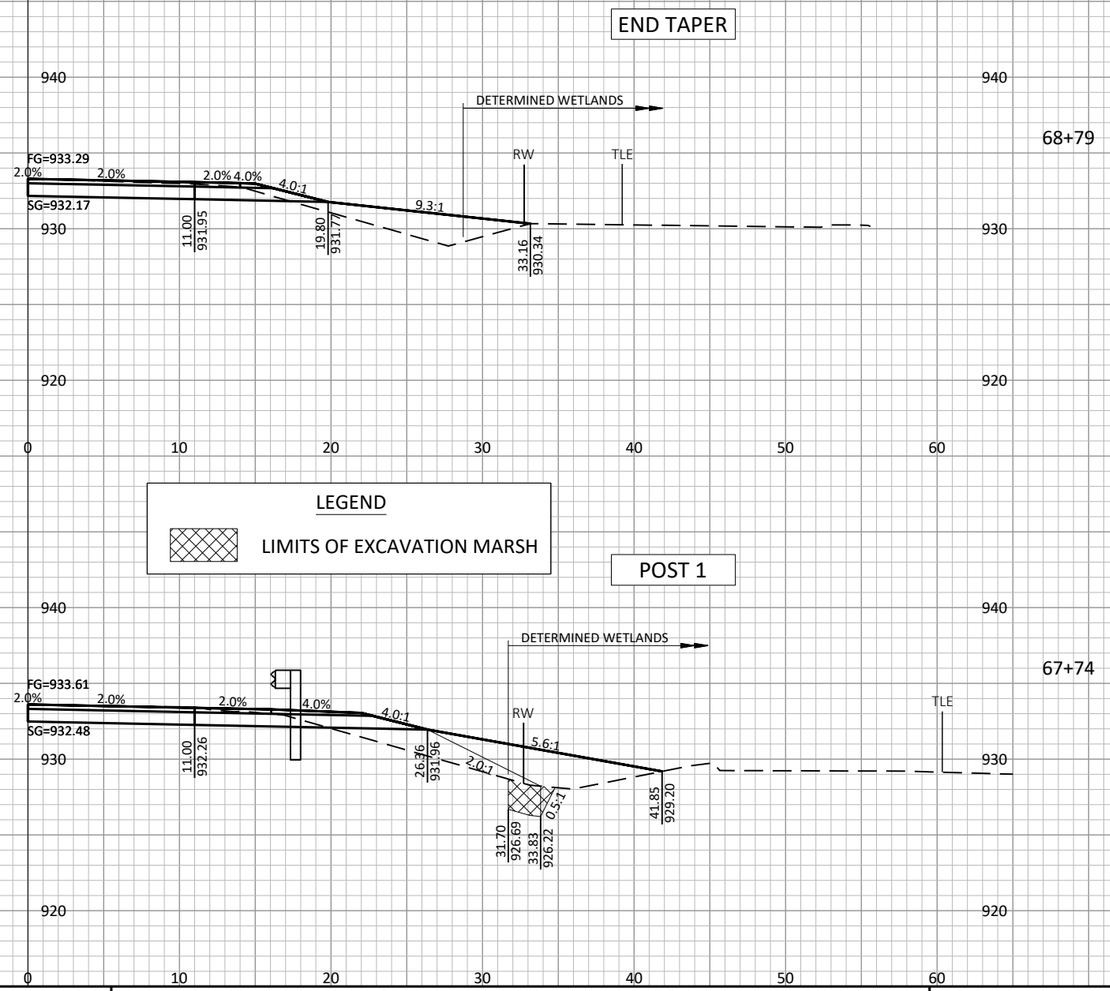
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET 258	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:53:14 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 83





9

9

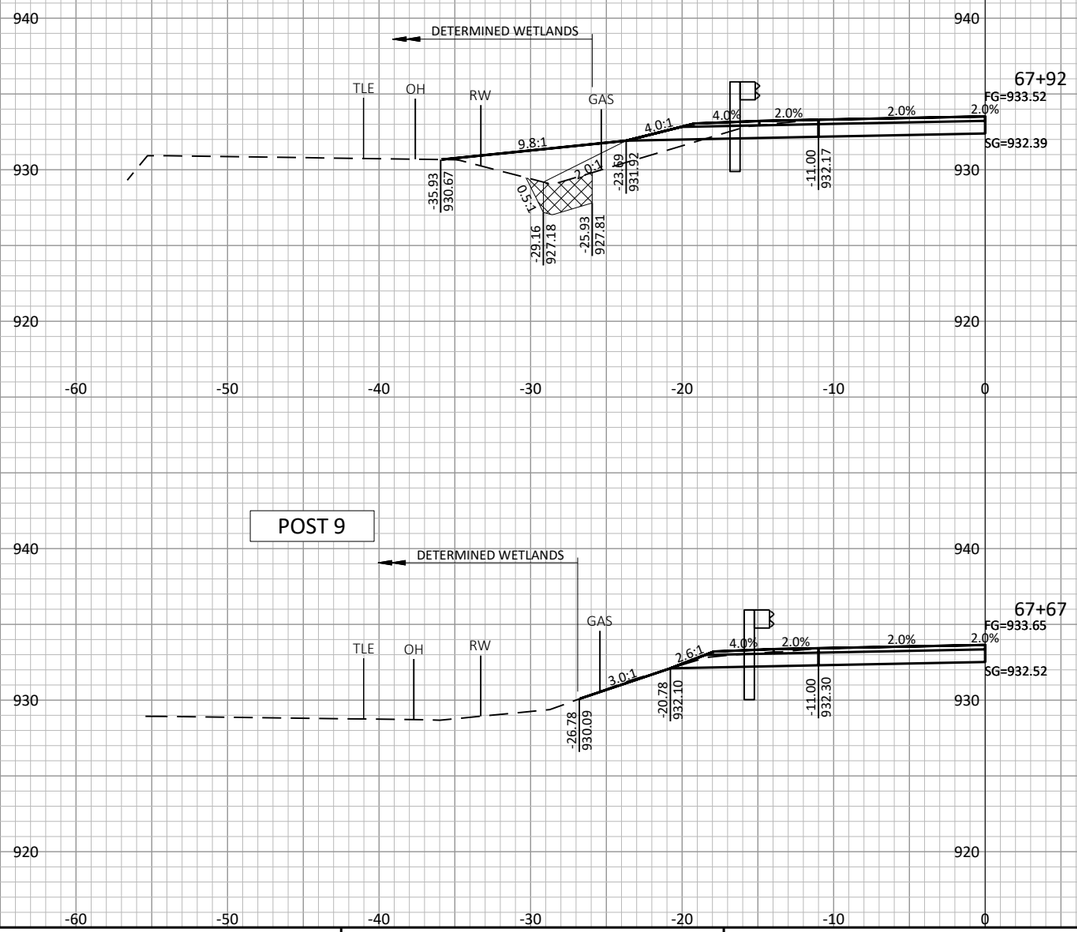
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:53:25 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 84

LEGEND

LIMITS OF EXCAVATION MARSH

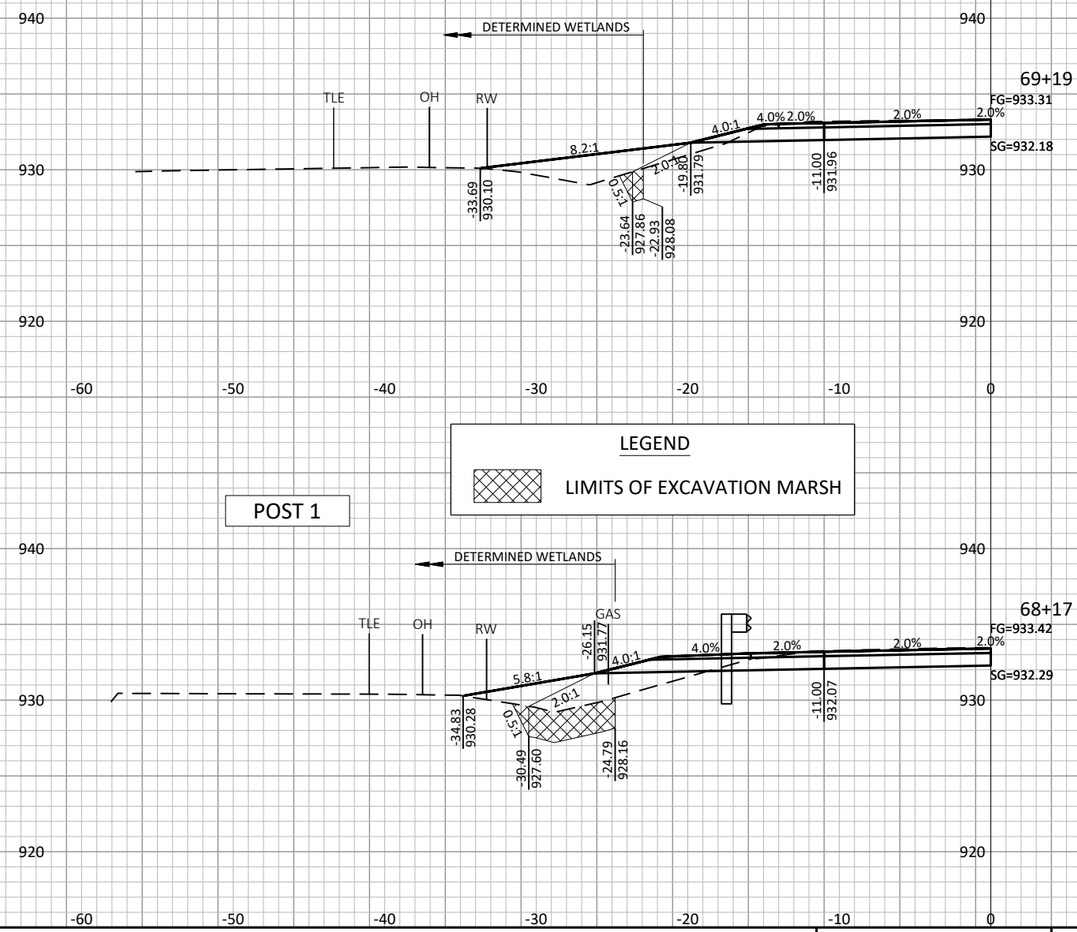
POST 5



LEGEND

LIMITS OF EXCAVATION MARSH

END TAPER



LEGEND

LIMITS OF EXCAVATION MARSH

POST 9

LEGEND

LIMITS OF EXCAVATION MARSH

POST 1

9

9

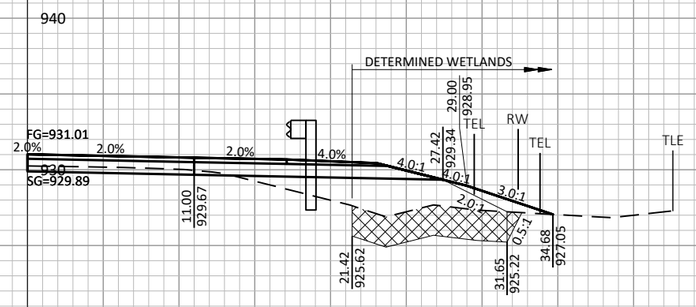
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET 260	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:53:36 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 85

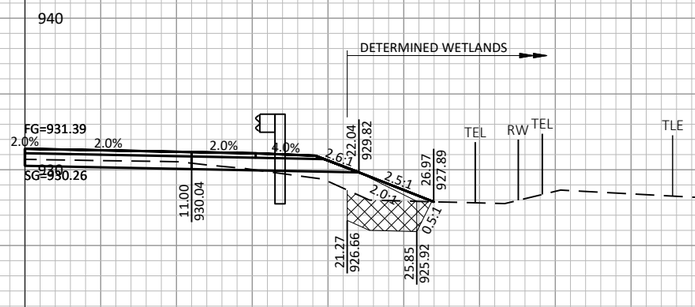
LEGEND

LIMITS OF EXCAVATION MARSH

POST 1



98+46

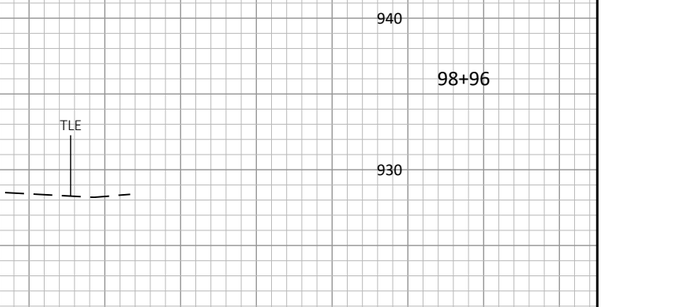


LEGEND

LIMITS OF EXCAVATION MARSH

POST 9

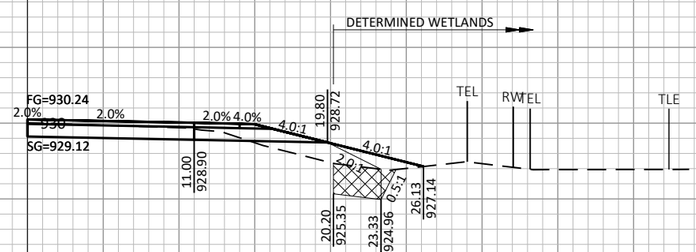
98+96



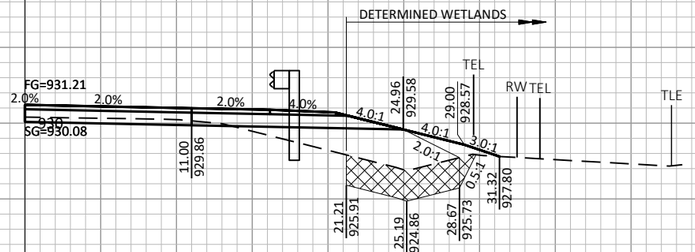
LEGEND

LIMITS OF EXCAVATION MARSH

END TAPER



97+23

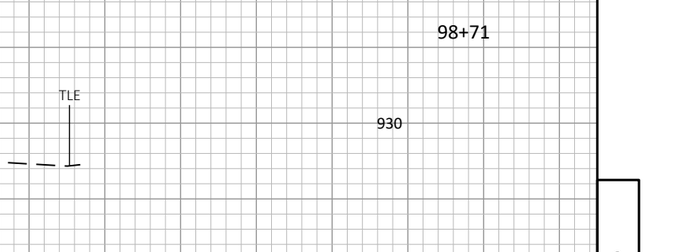


LEGEND

LIMITS OF EXCAVATION MARSH

POST 5

98+71



9

9

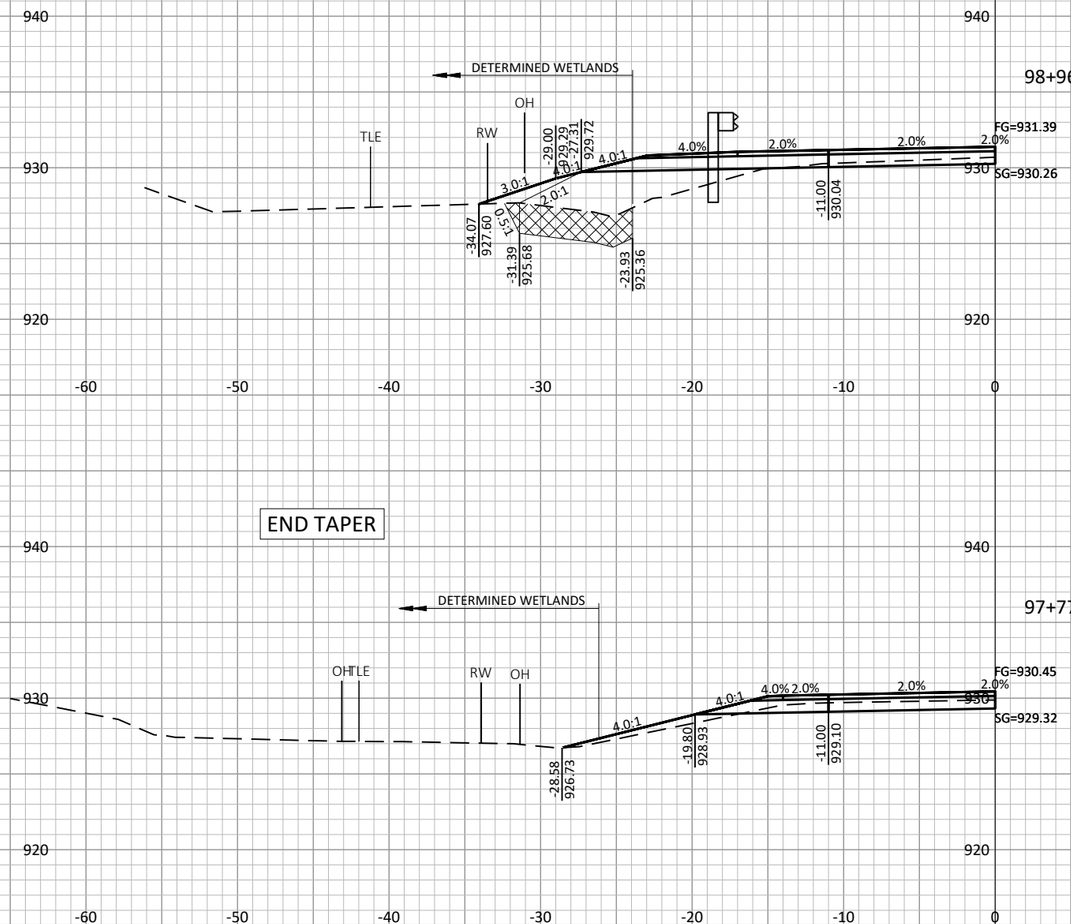
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:53:48 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 86

LEGEND

LIMITS OF EXCAVATION MARSH

POST 1

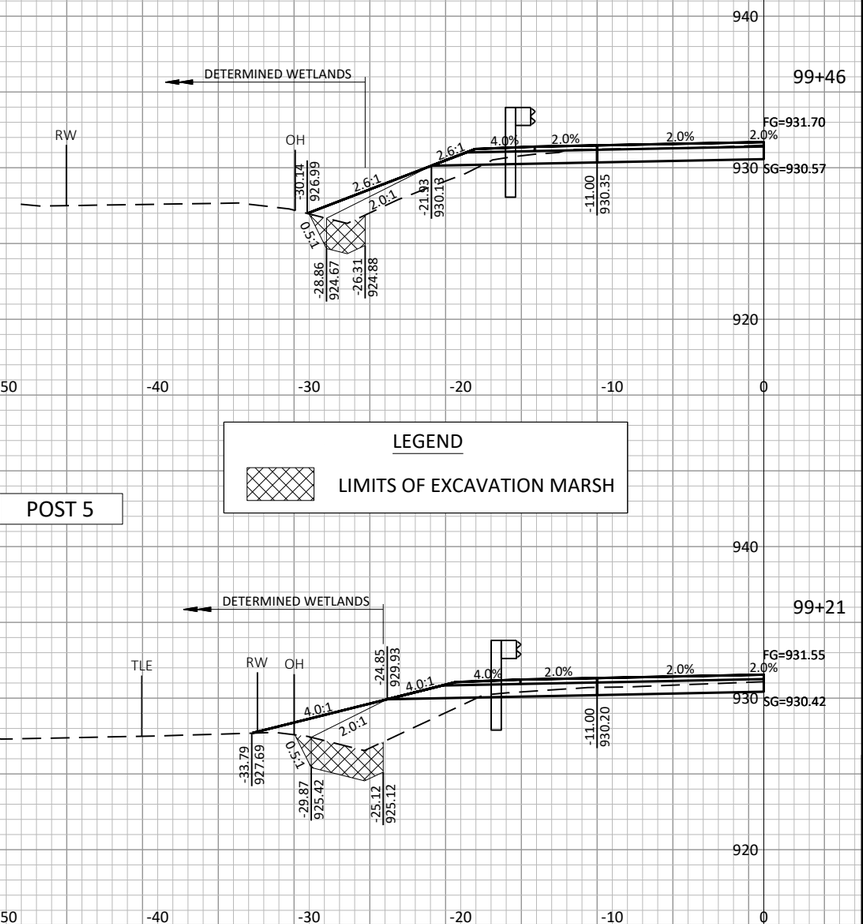


END TAPER

LEGEND

LIMITS OF EXCAVATION MARSH

POST 9



LEGEND

LIMITS OF EXCAVATION MARSH

POST 5

9

9

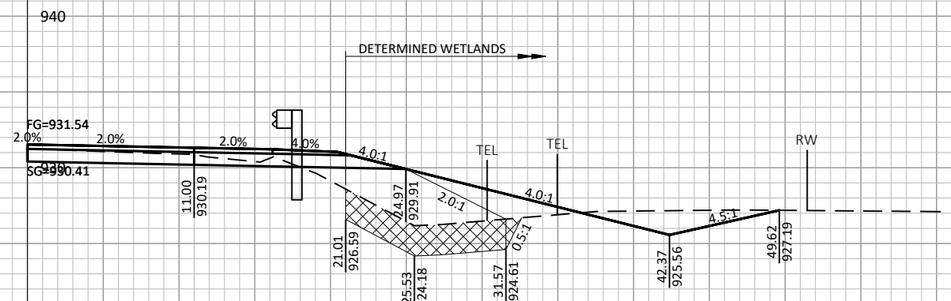
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:53:59 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 87

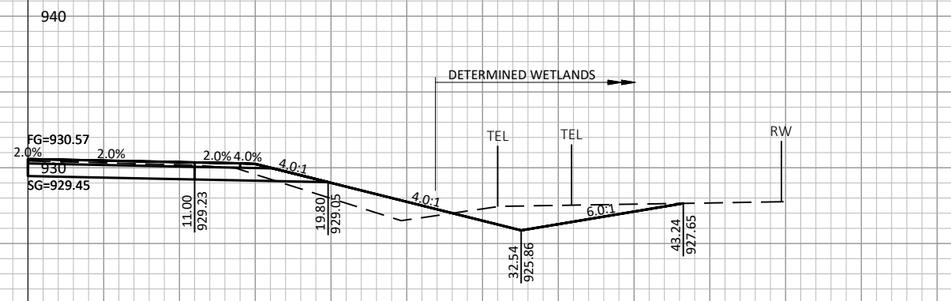
LEGEND

LIMITS OF EXCAVATION MARSH

POST 5



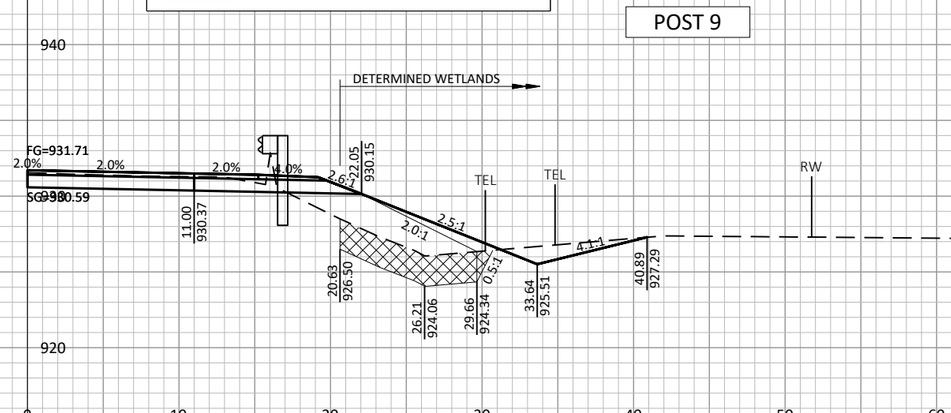
END TAPER



LEGEND

LIMITS OF EXCAVATION MARSH

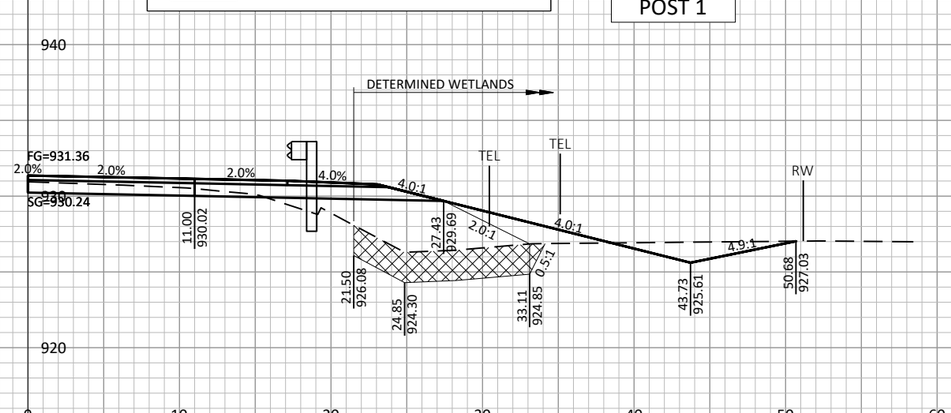
POST 9



LEGEND

LIMITS OF EXCAVATION MARSH

POST 1



9

9

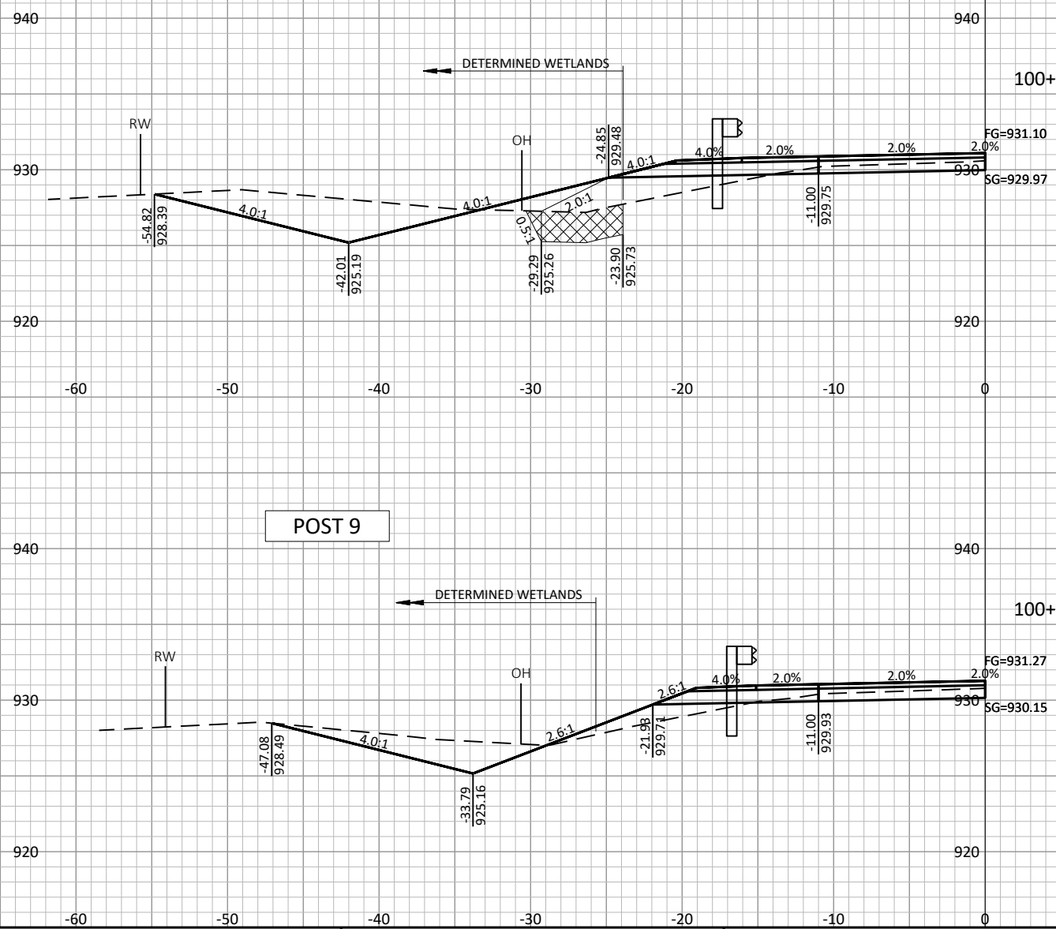
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:54:11 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 88

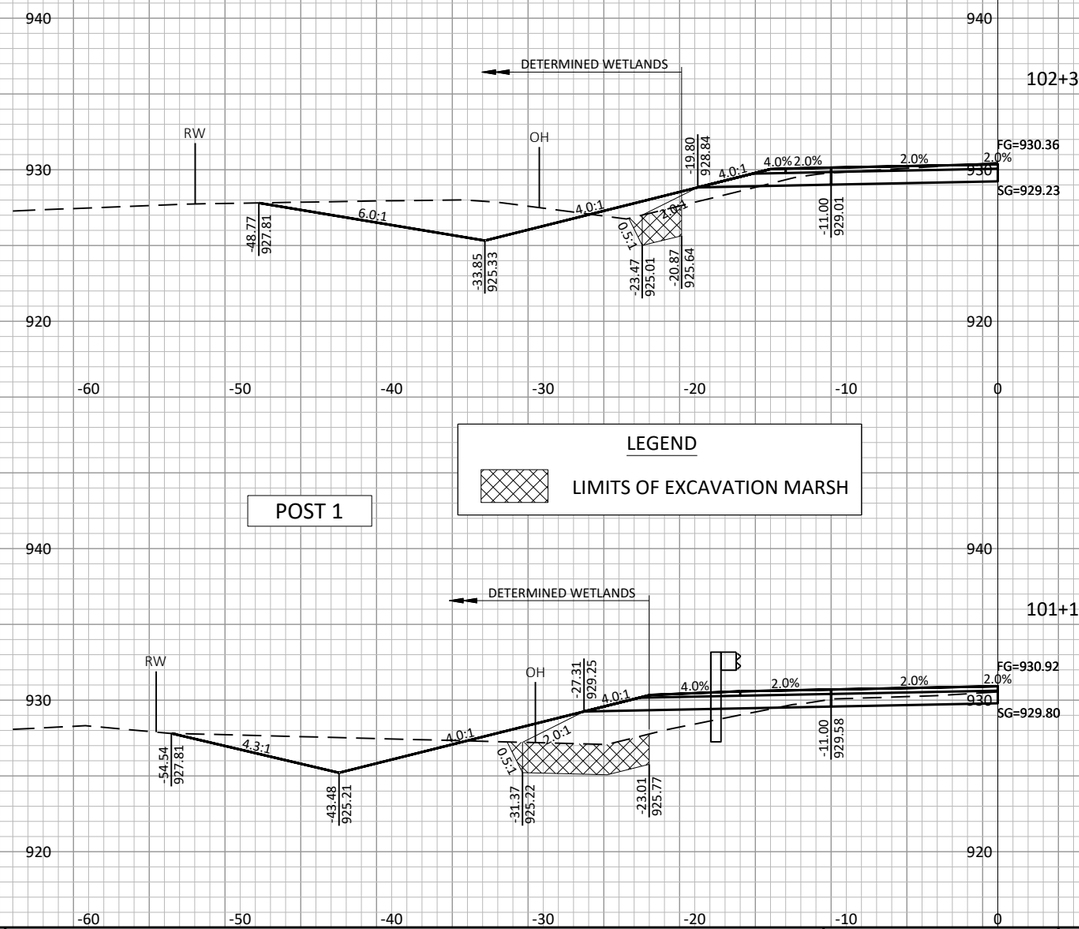
LEGEND

LIMITS OF EXCAVATION MARSH

POST 5



END TAPER



POST 9

LEGEND

LIMITS OF EXCAVATION MARSH

POST 1

9

9

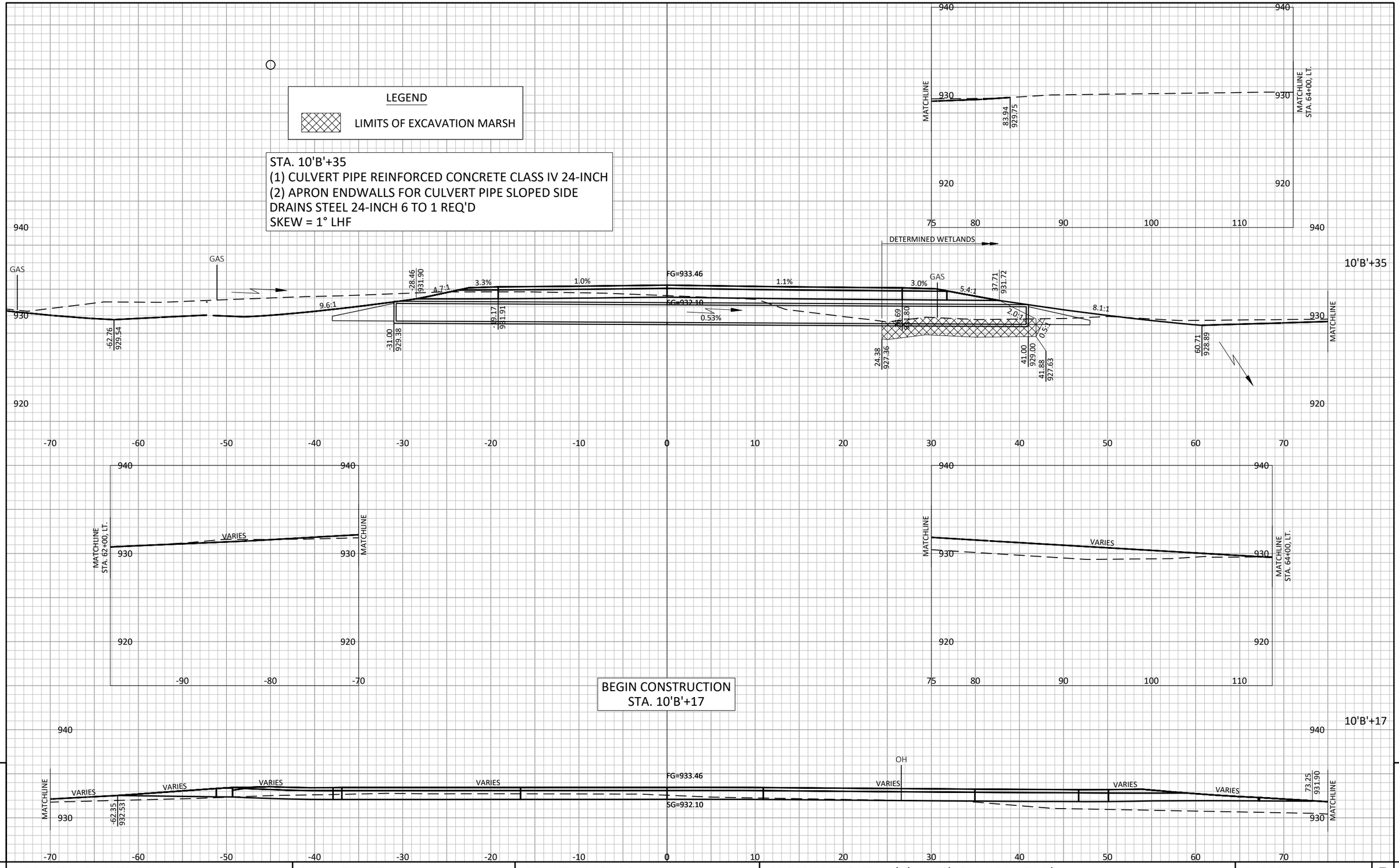
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE (MGS GUARDRAIL TERMINAL EAT)	SHEET 264	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:54:23 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 89

LEGEND

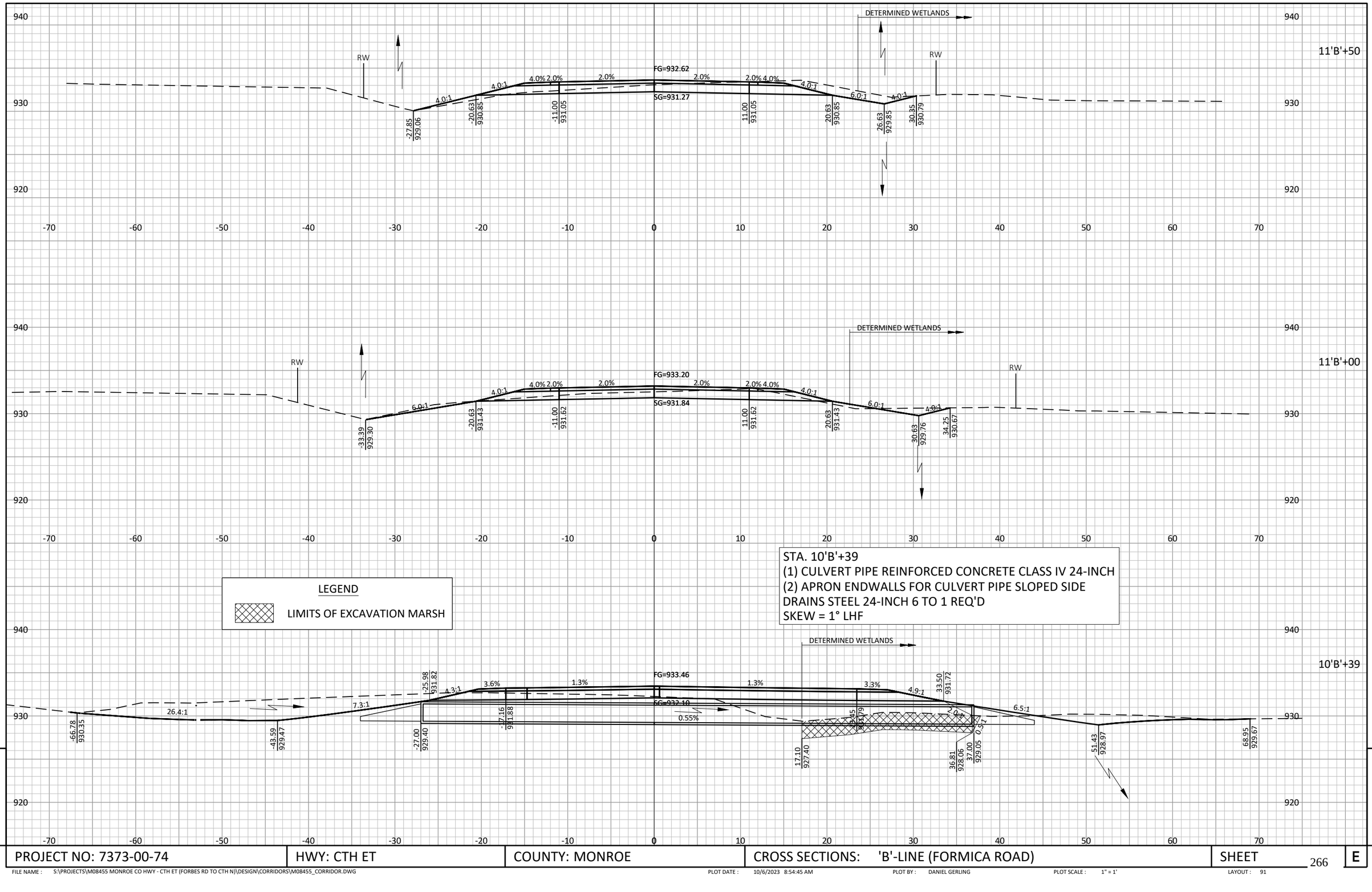
LIMITS OF EXCAVATION MARSH

STA. 10'B'+35
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 1° LHF



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FORMICA ROAD)	SHEET 265	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:54:34 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 90



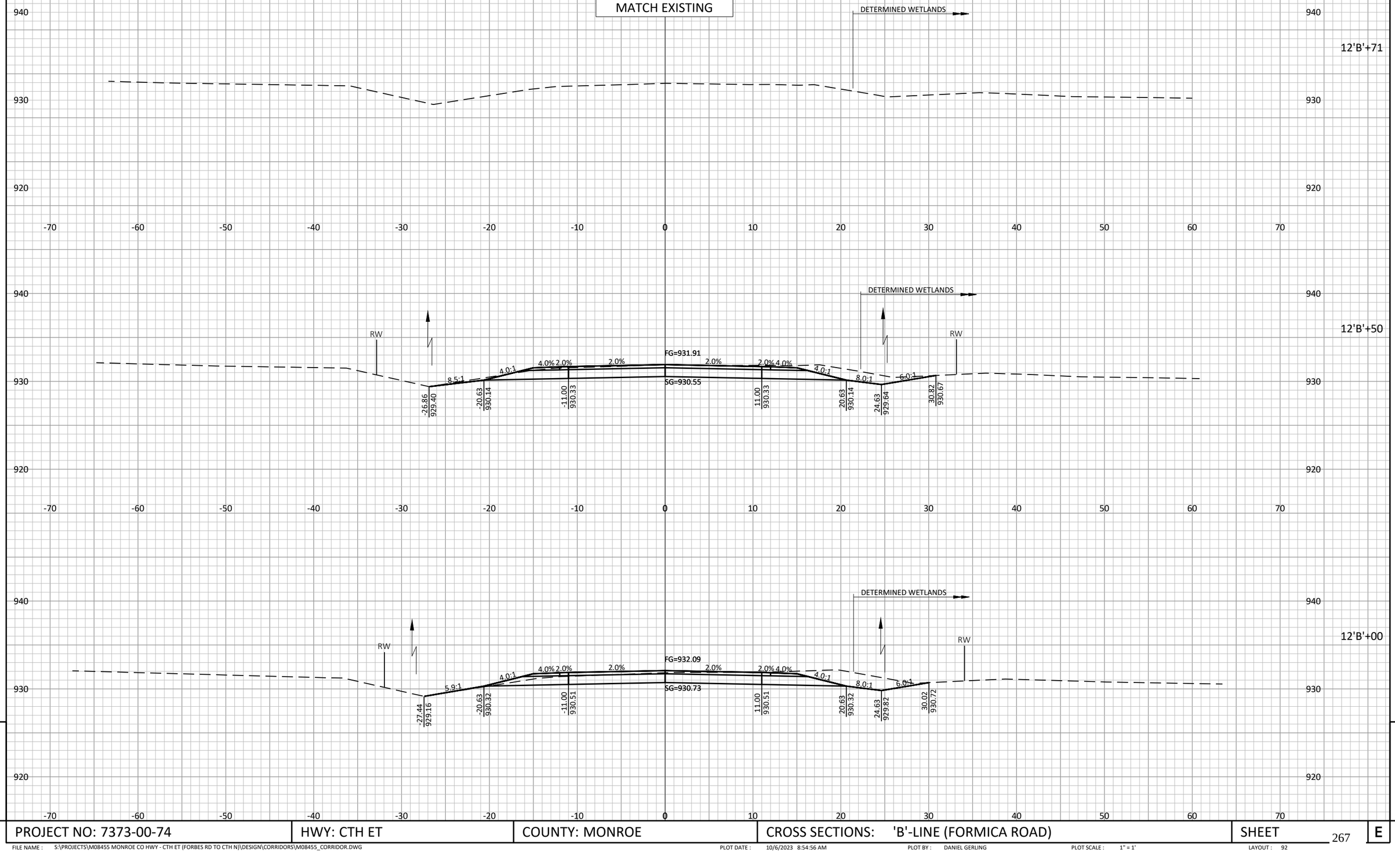
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FORMICA ROAD)	SHEET 266	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:54:45 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 91

END CONSTRUCTION
STA. 12'B'+71
MATCH EXISTING



9

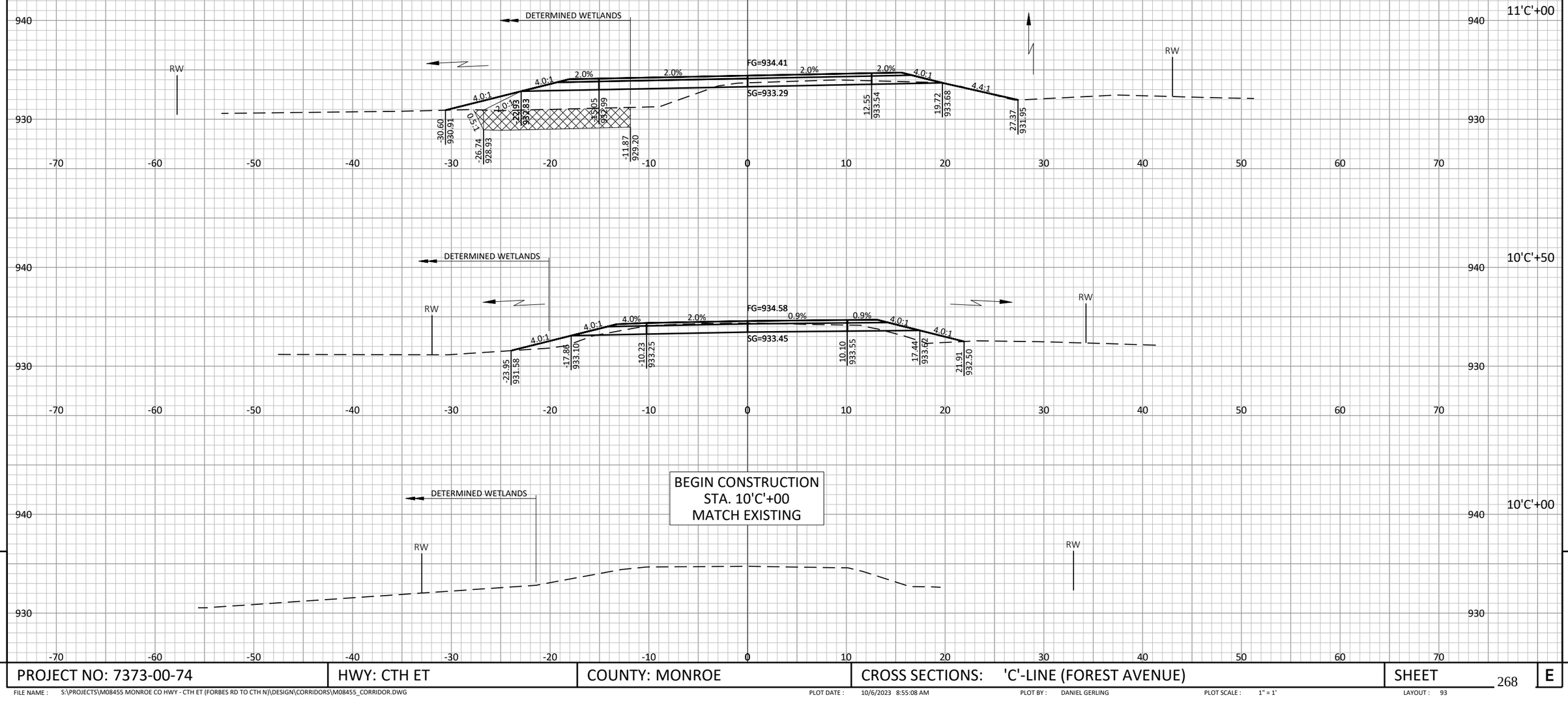
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FORMICA ROAD)	SHEET 267	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:54:56 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 92

LEGEND

LIMITS OF EXCAVATION MARSH



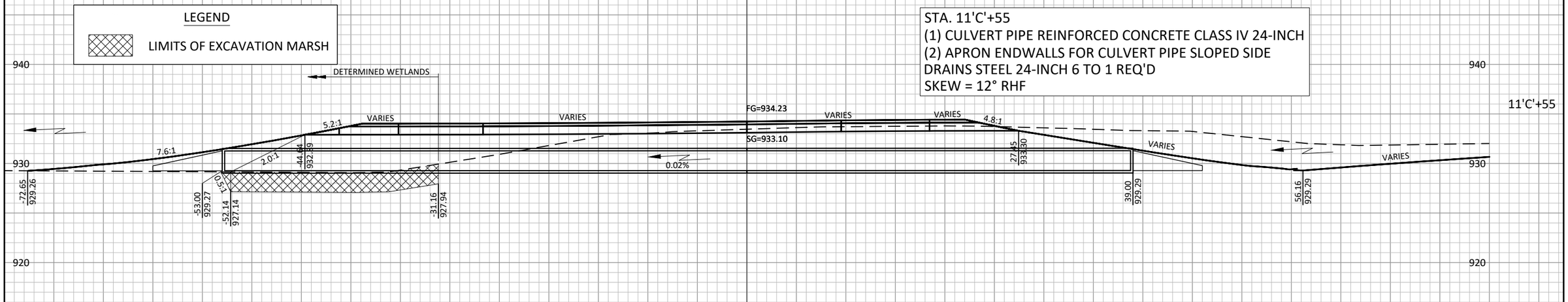
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FOREST AVENUE)	SHEET 268 E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:55:08 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 93

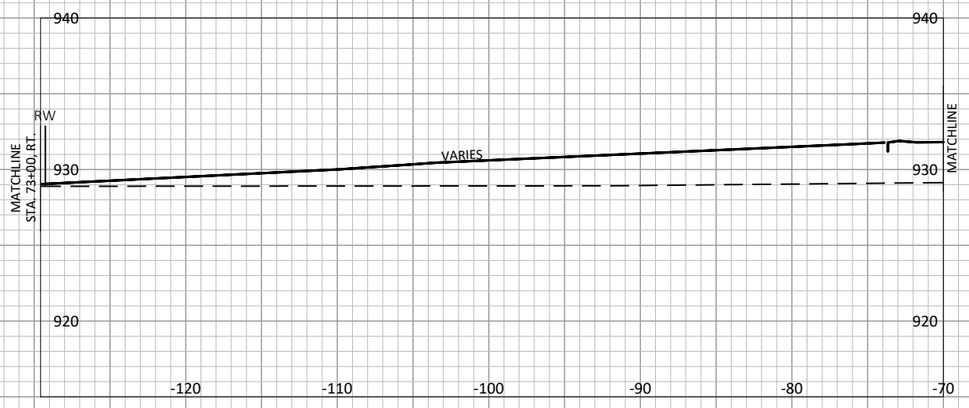
LEGEND

LIMITS OF EXCAVATION MARSH

STA. 11'C'+55
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 12° RHF

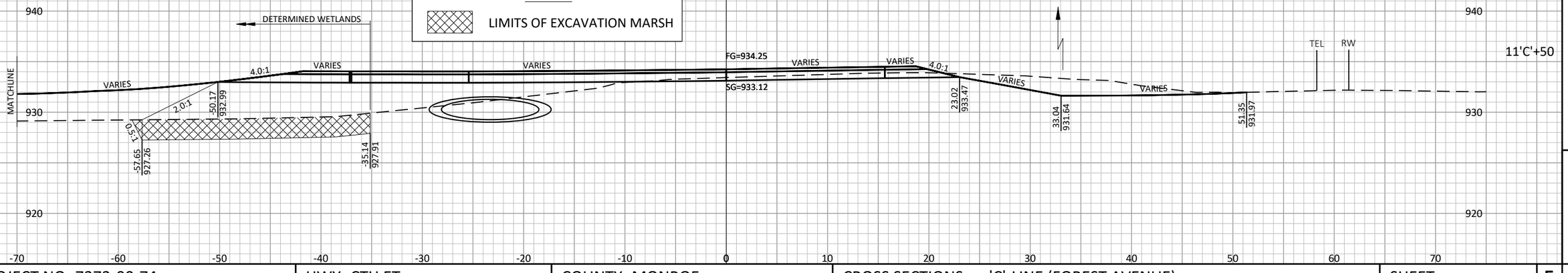


11'C'+55



LEGEND

LIMITS OF EXCAVATION MARSH



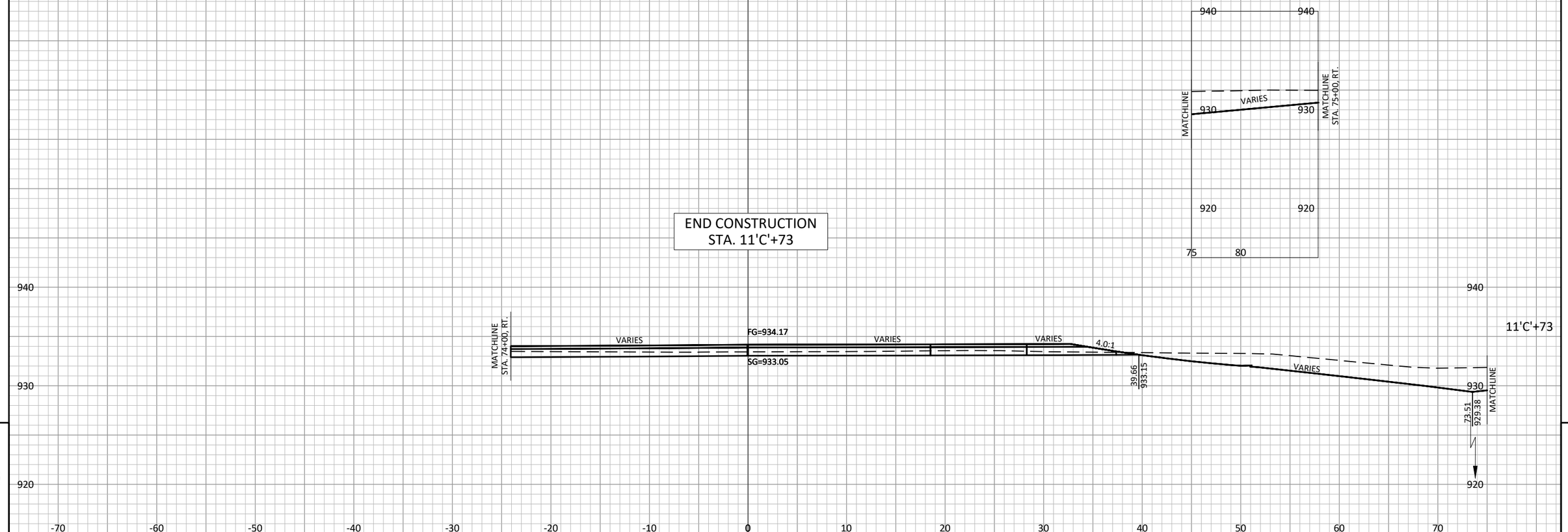
11'C'+50

9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FOREST AVENUE)	SHEET 269	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:55:19 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 94



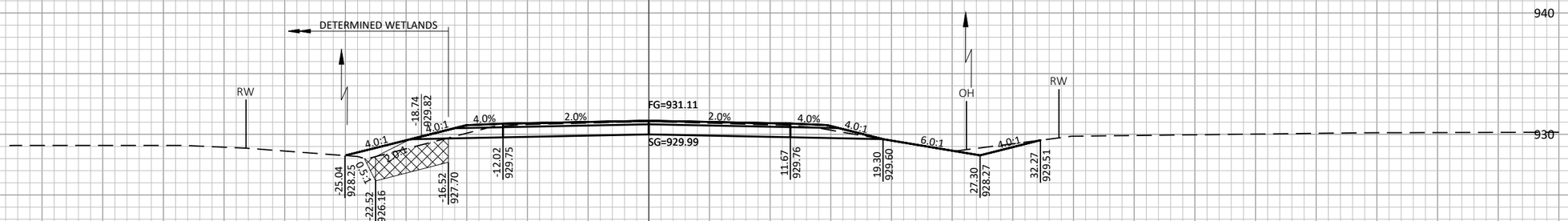
9

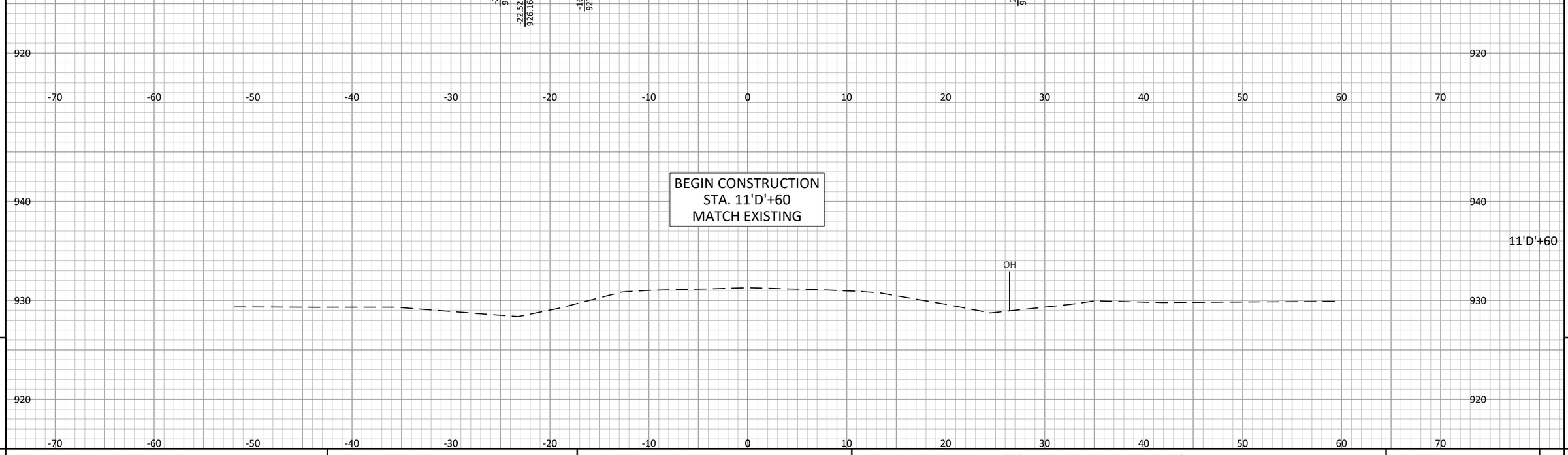
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FOREST AVENUE)	SHEET 270	E

LEGEND

LIMITS OF EXCAVATION MARSH





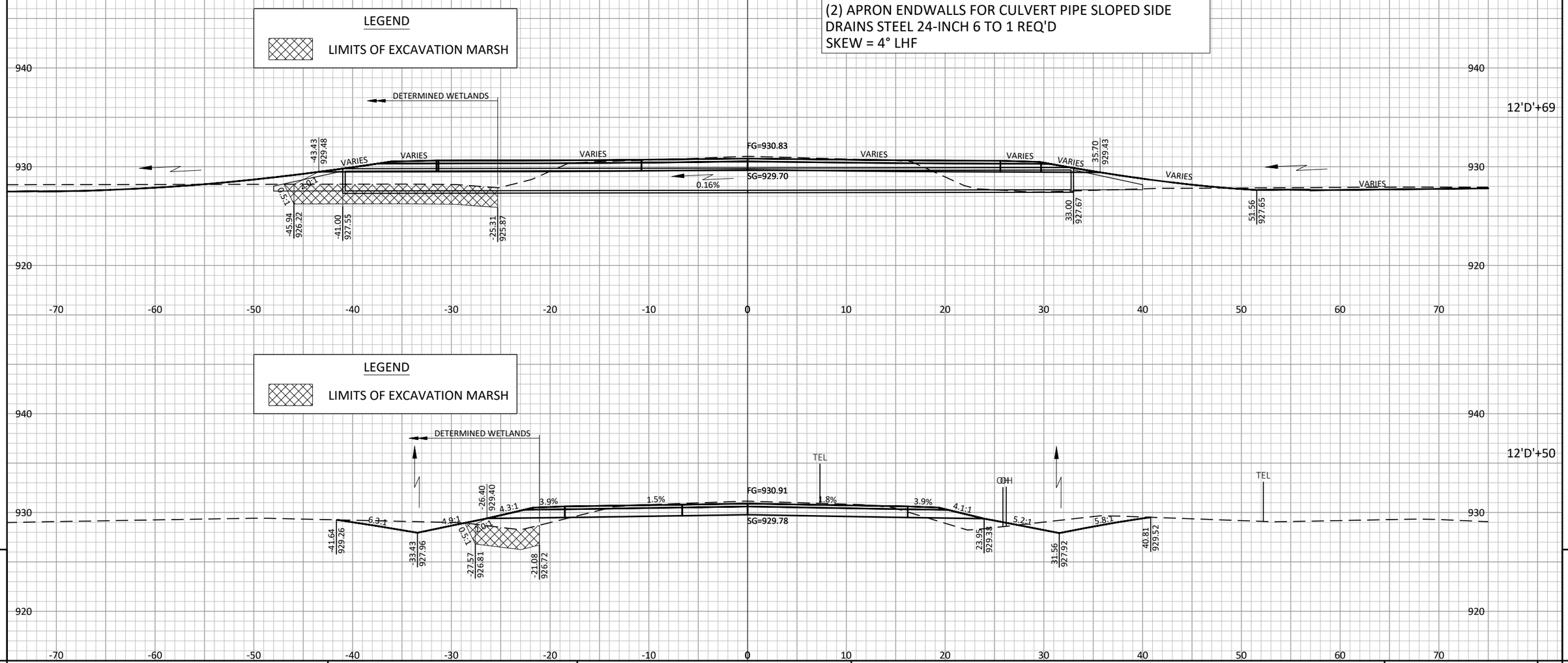
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'D'-LINE (FORTUNE ROAD)	SHEET 271 E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:55:41 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 96

STA. 12'D'+69
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW = 4° LHF

LEGEND

LIMITS OF EXCAVATION MARSH

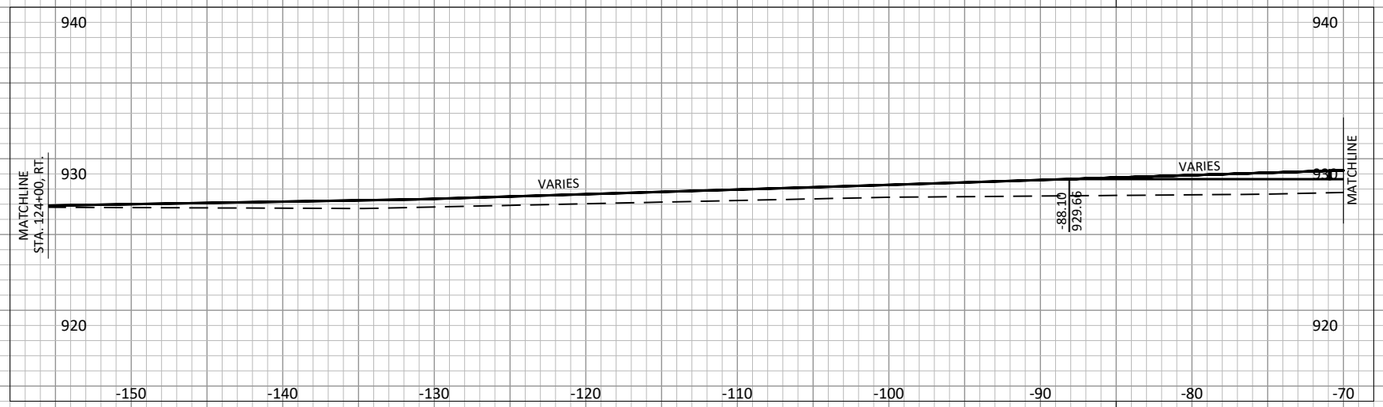


LEGEND

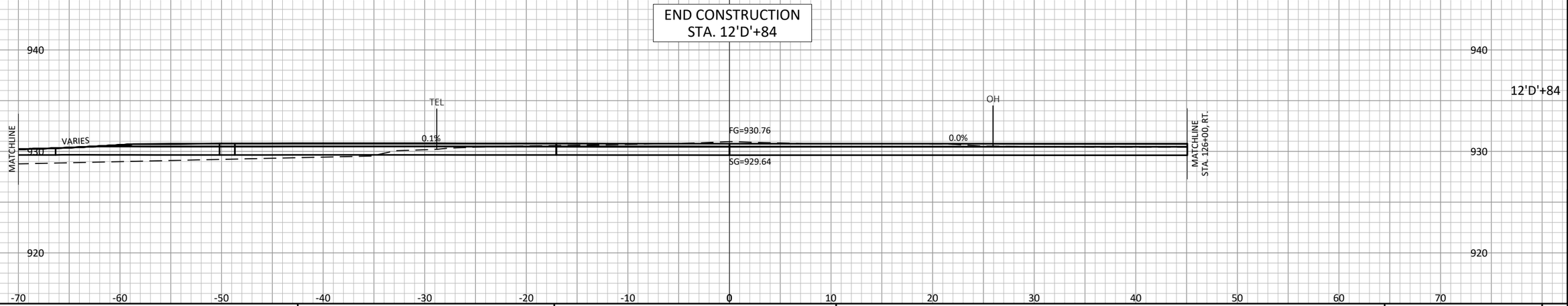
LIMITS OF EXCAVATION MARSH

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'D'-LINE (FORTUNE ROAD)	SHEET 272	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:55:52 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 97



END CONSTRUCTION
STA. 12'D'+84



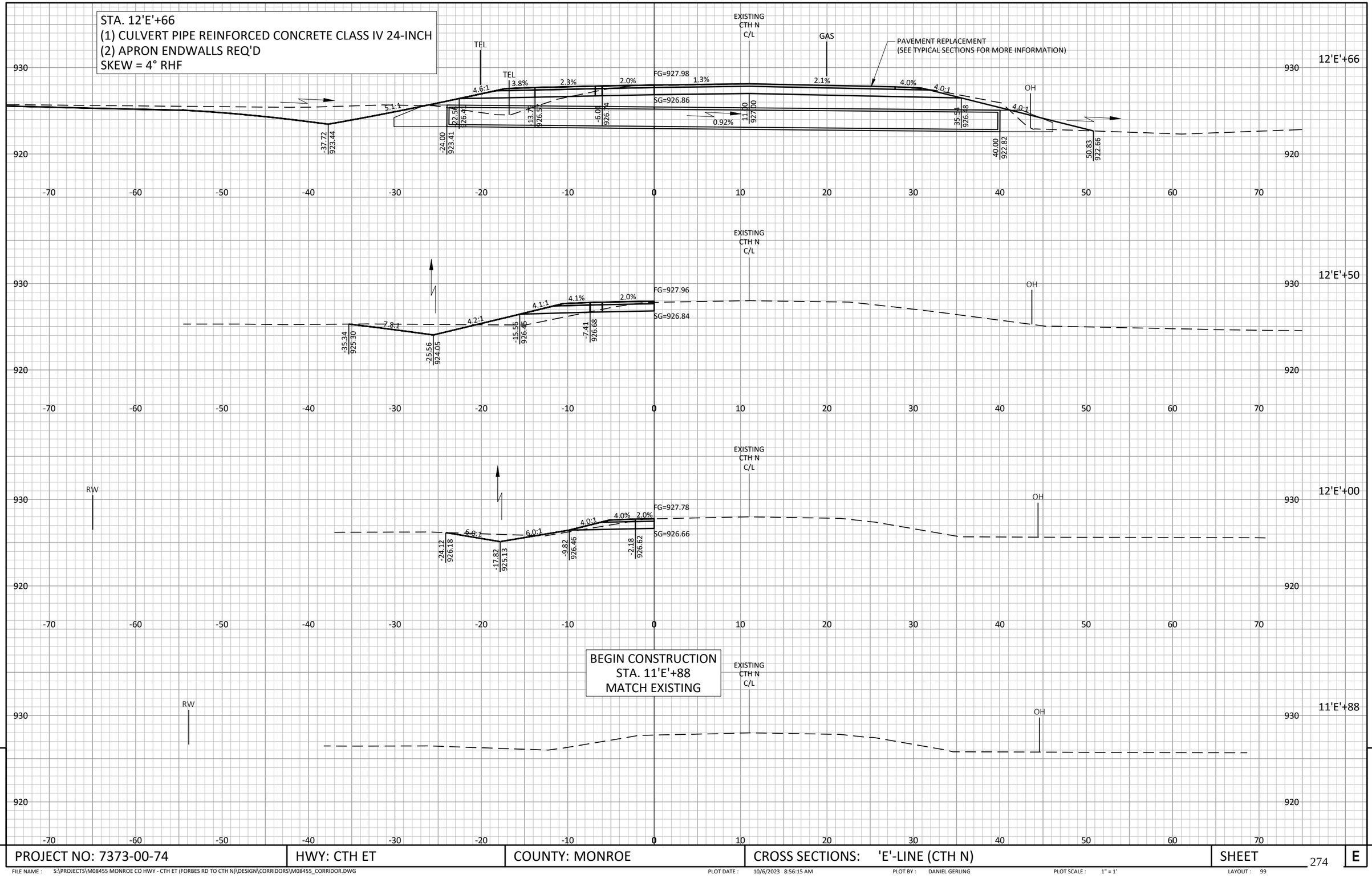
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'D'-LINE (FORTUNE ROAD)	SHEET 273	E

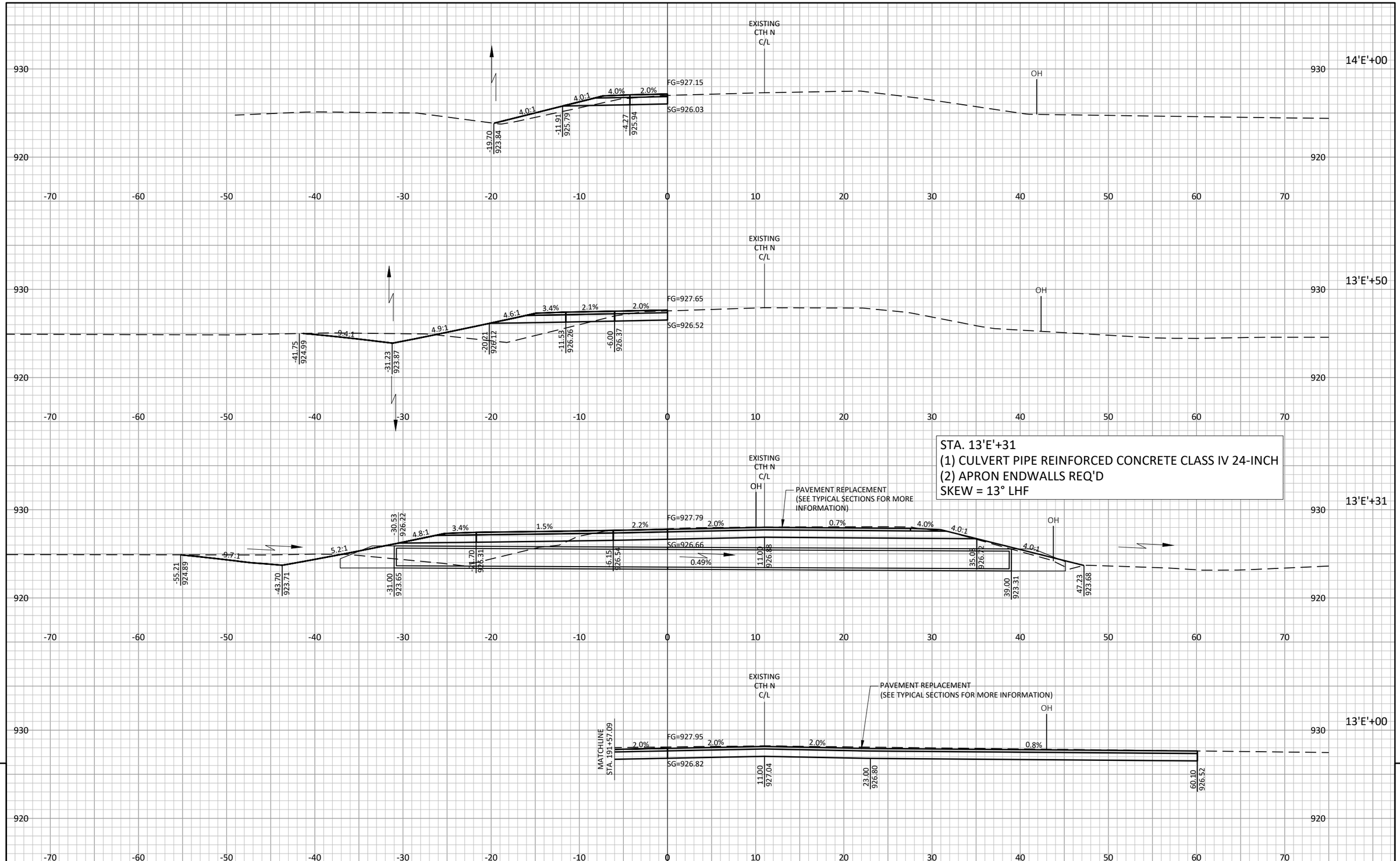
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:56:03 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 98

STA. 12'E'+66
(1) CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW = 4° RHF



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'E'-LINE (CTH N)	SHEET 274	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:56:15 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 99



PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'E'-LINE (CTH N)	SHEET 275

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:56:26 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 100

END CONSTRUCTION
STA. 14'E'+50
MATCH EXISTING

EXISTING
CTH N
C/L

RW

OH

14'E'+50

930

920

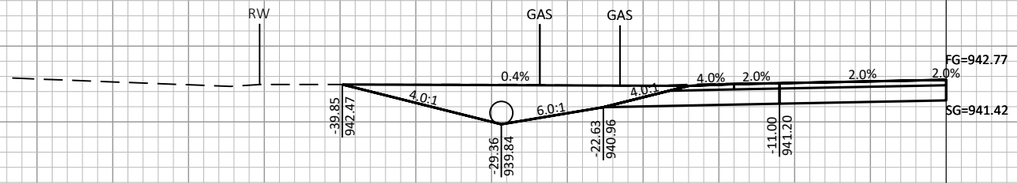
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

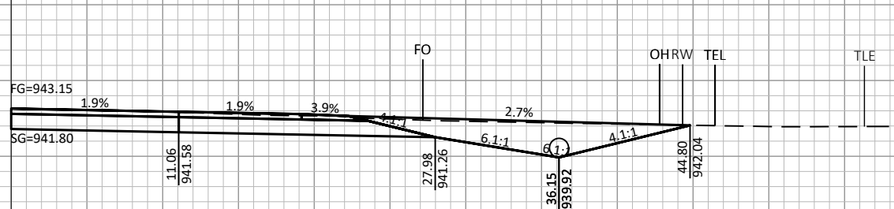
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'E'-LINE (CTH N)	SHEET 276	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:56:38 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 101



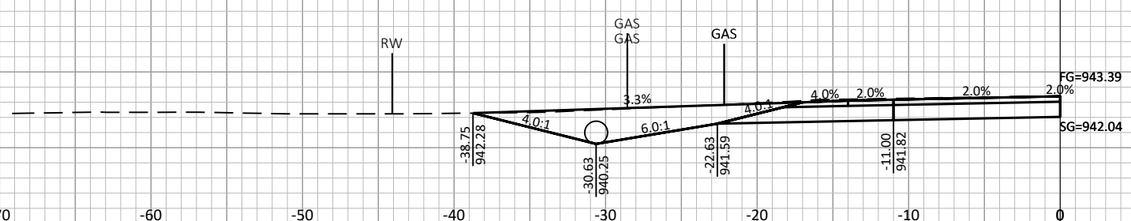
15+28

STA. 15+28, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



14+38

STA. 14+38, RT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 15-INCH
(2) APRON ENDWALLS REQ'D



13+96

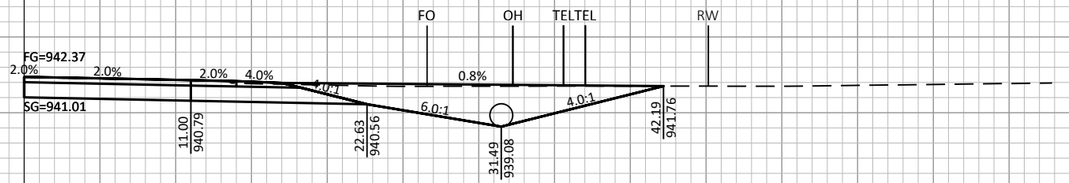
STA. 13+96, LT.
P.E. REQ'D (B.A.D)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

9

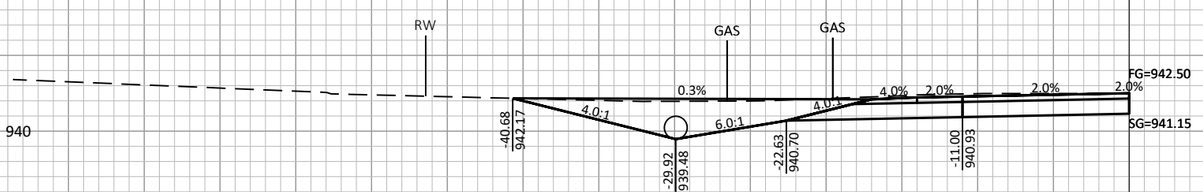
9

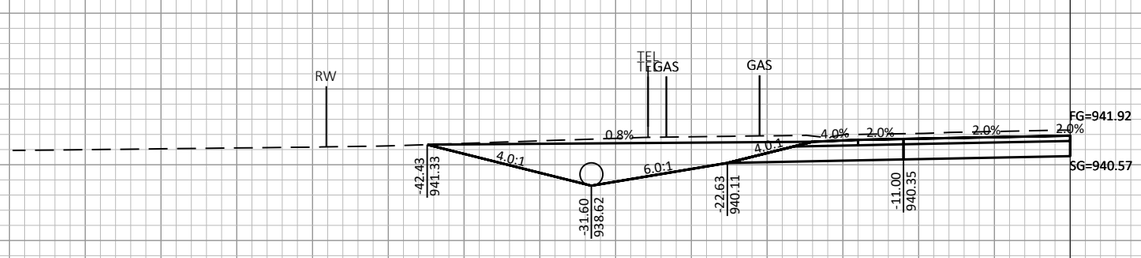
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 277	E

STA. 17+15, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



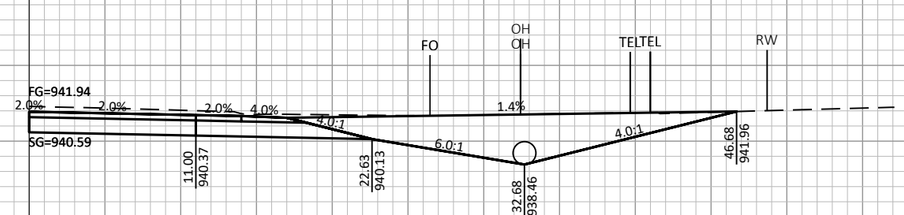
STA. 16+47, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D





STA. 19+32, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

19+32



STA. 19+24, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

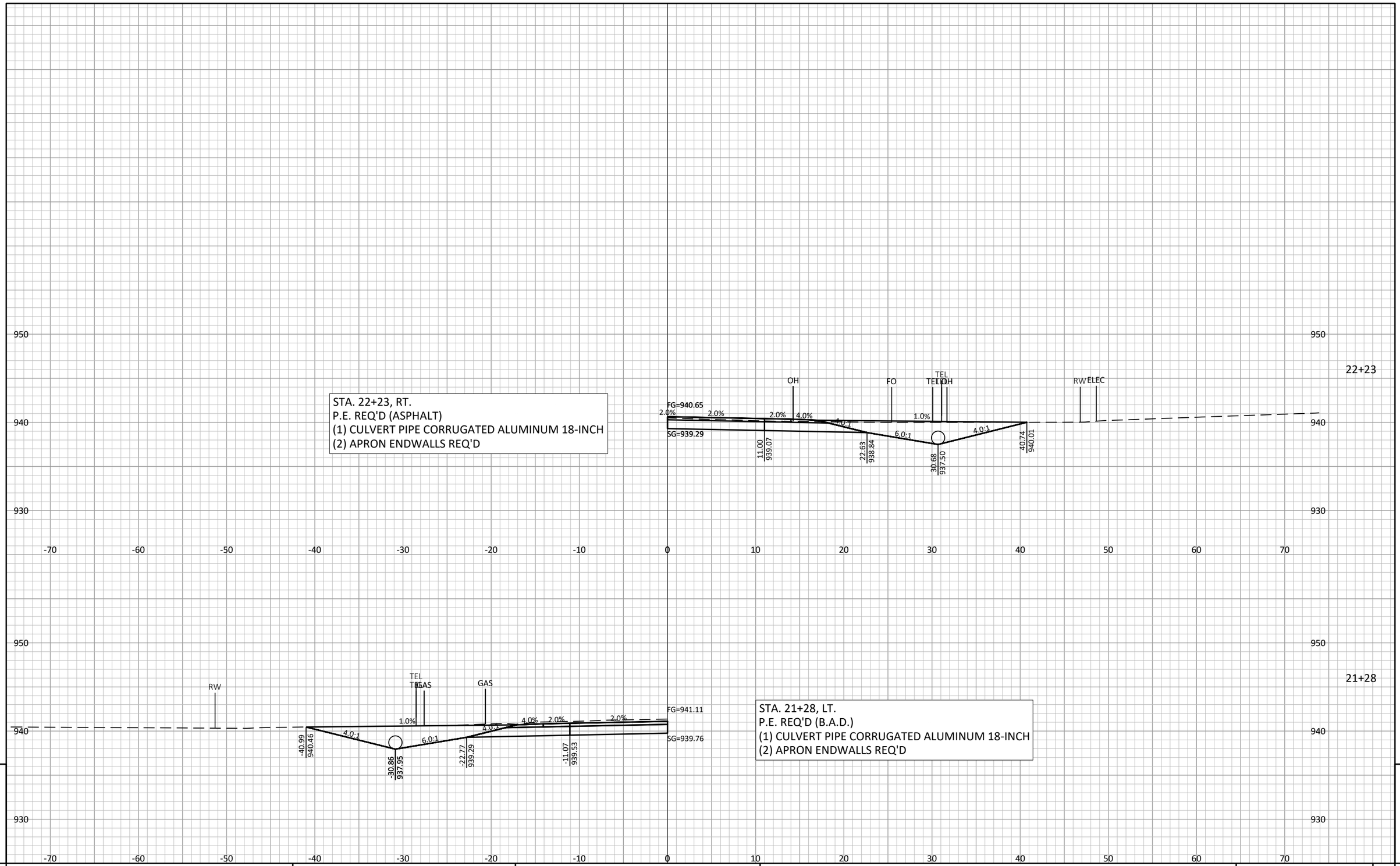
19+24

950
940
930
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 279	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG PLOT DATE : 10/6/2023 8:57:12 AM PLOT BY : DANIEL GERLING PLOT SCALE : 1" = 1' LAYOUT : 104



STA. 22+23, RT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

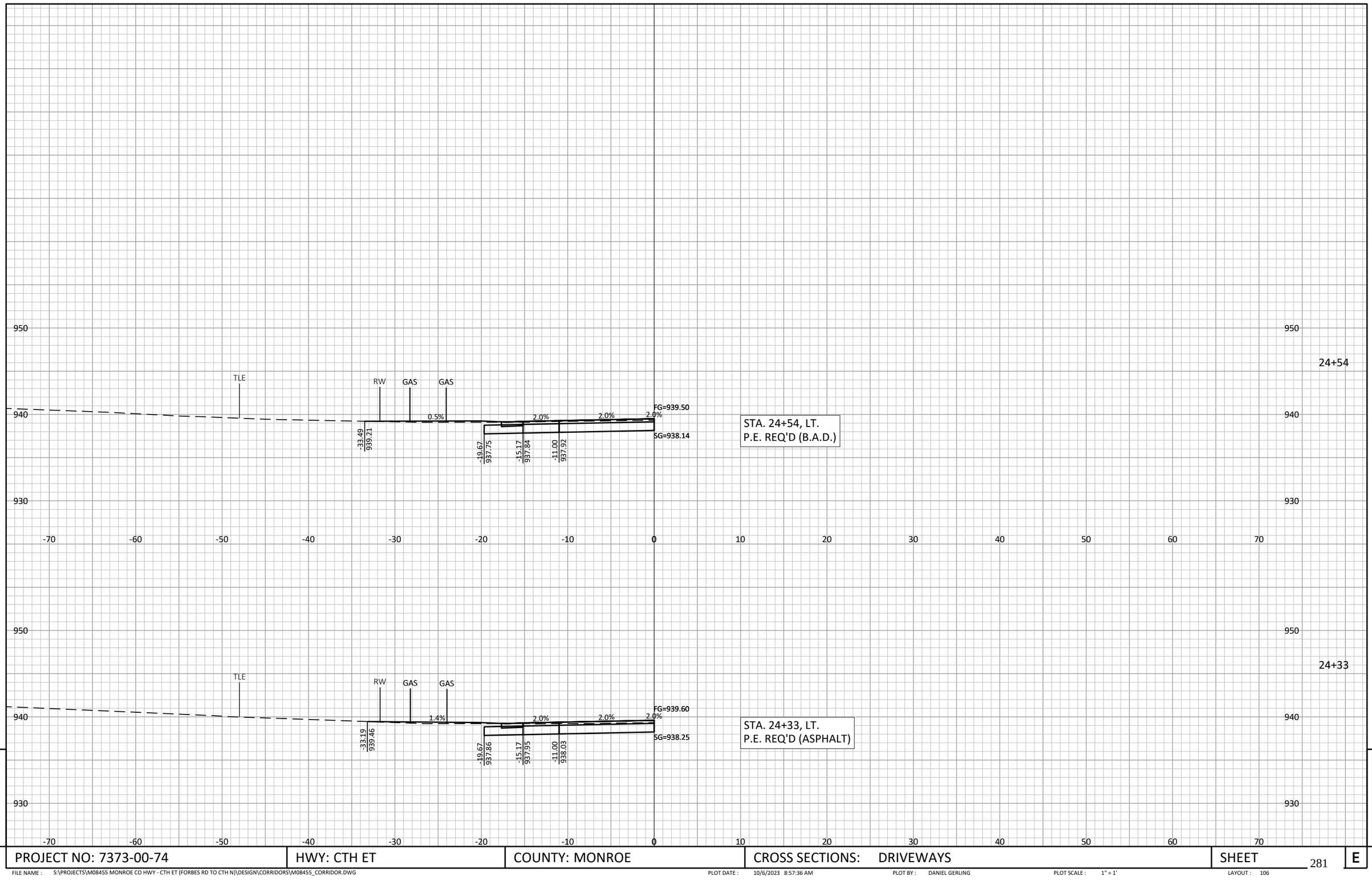
STA. 21+28, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 280	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:57:24 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 105



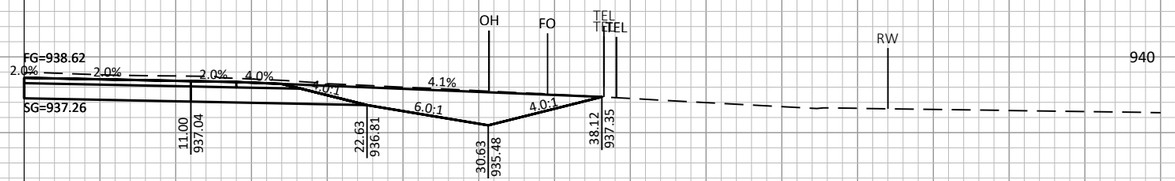
9

9

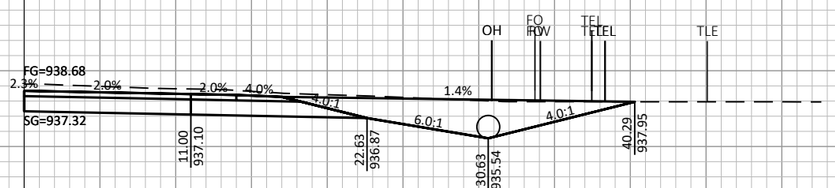
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 281	E

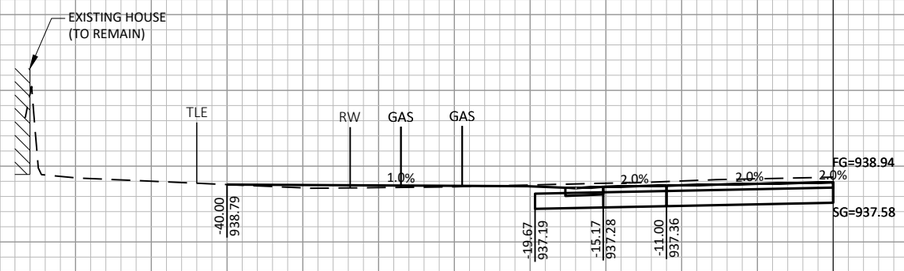
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:57:36 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 106

STA. 26+68, RT.
F.E. REQ'D (B.A.D.)



STA. 26+25, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D





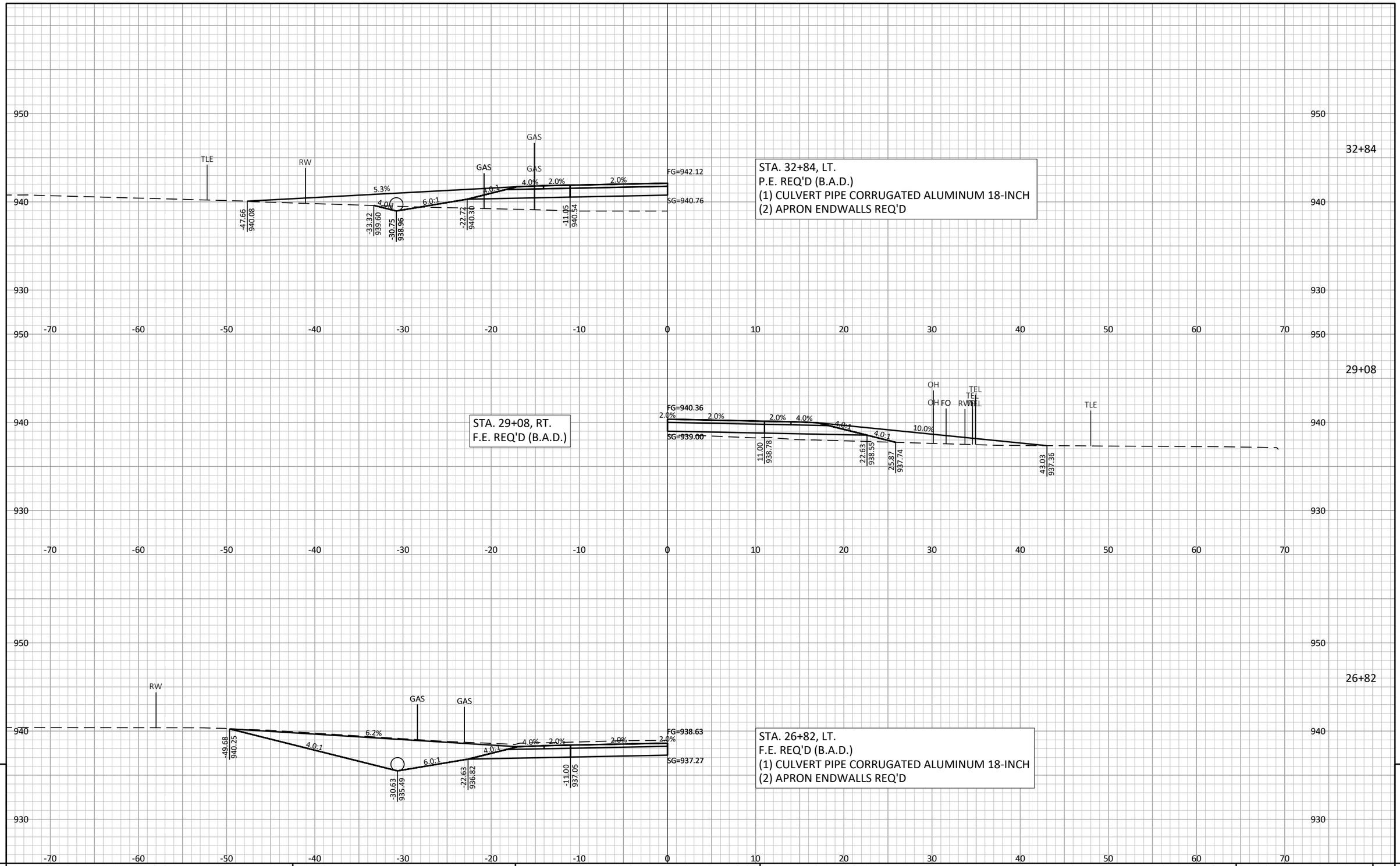
STA. 25+67, LT.
P.E. REQ'D (ASPHALT)

9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 282	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:57:48 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 107

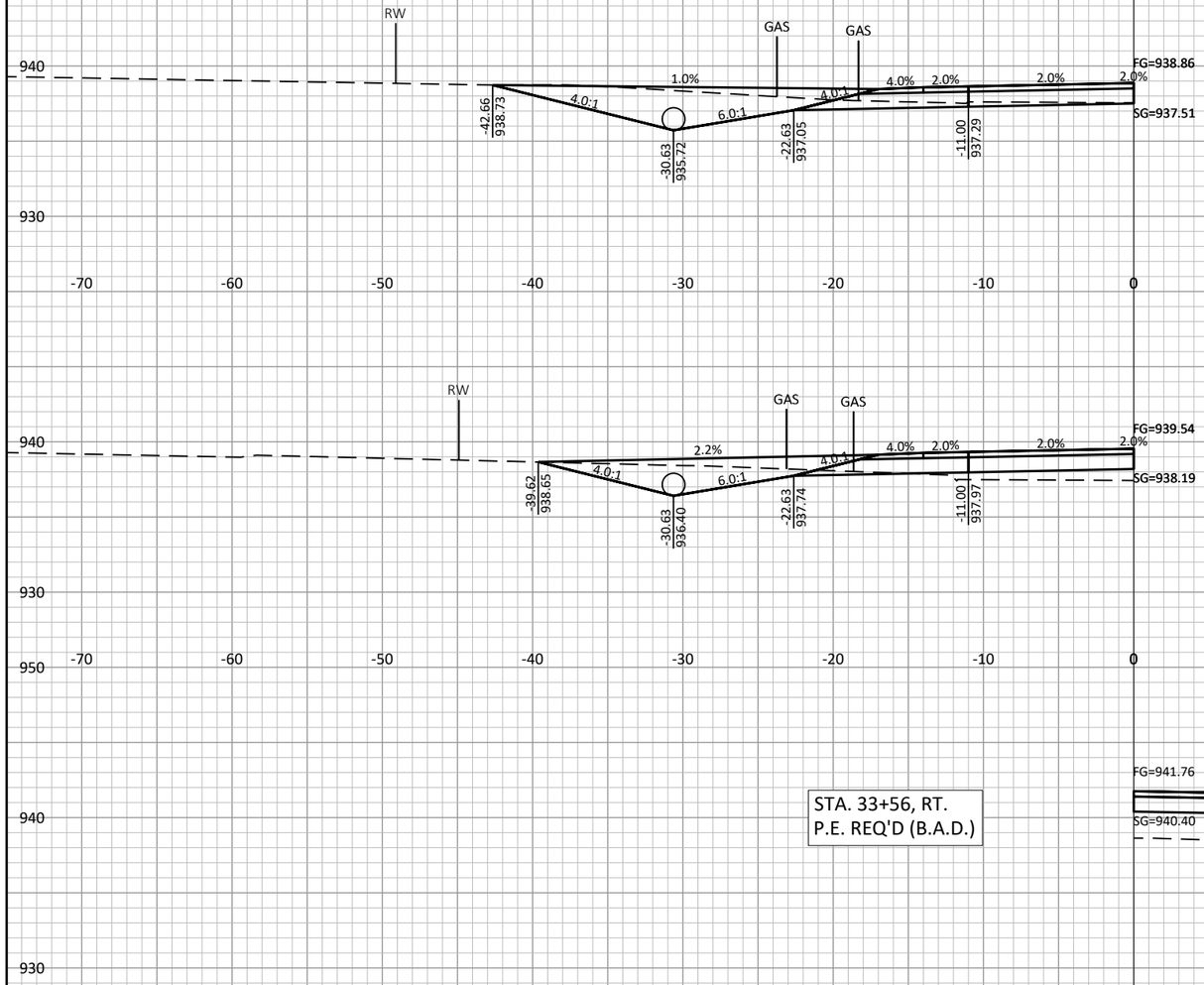


9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 283	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:58:00 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 108



39+40

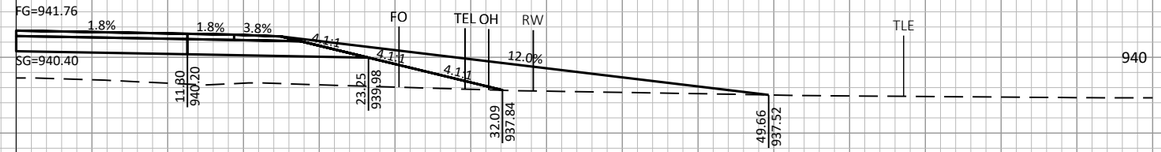
STA. 39+40, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

38+02

STA. 38+02, LT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

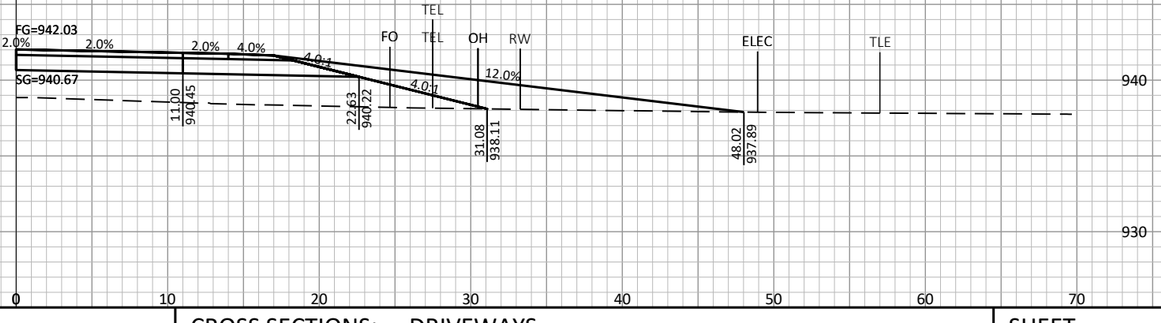
33+56

STA. 33+56, RT.
P.E. REQ'D (B.A.D.)



33+02

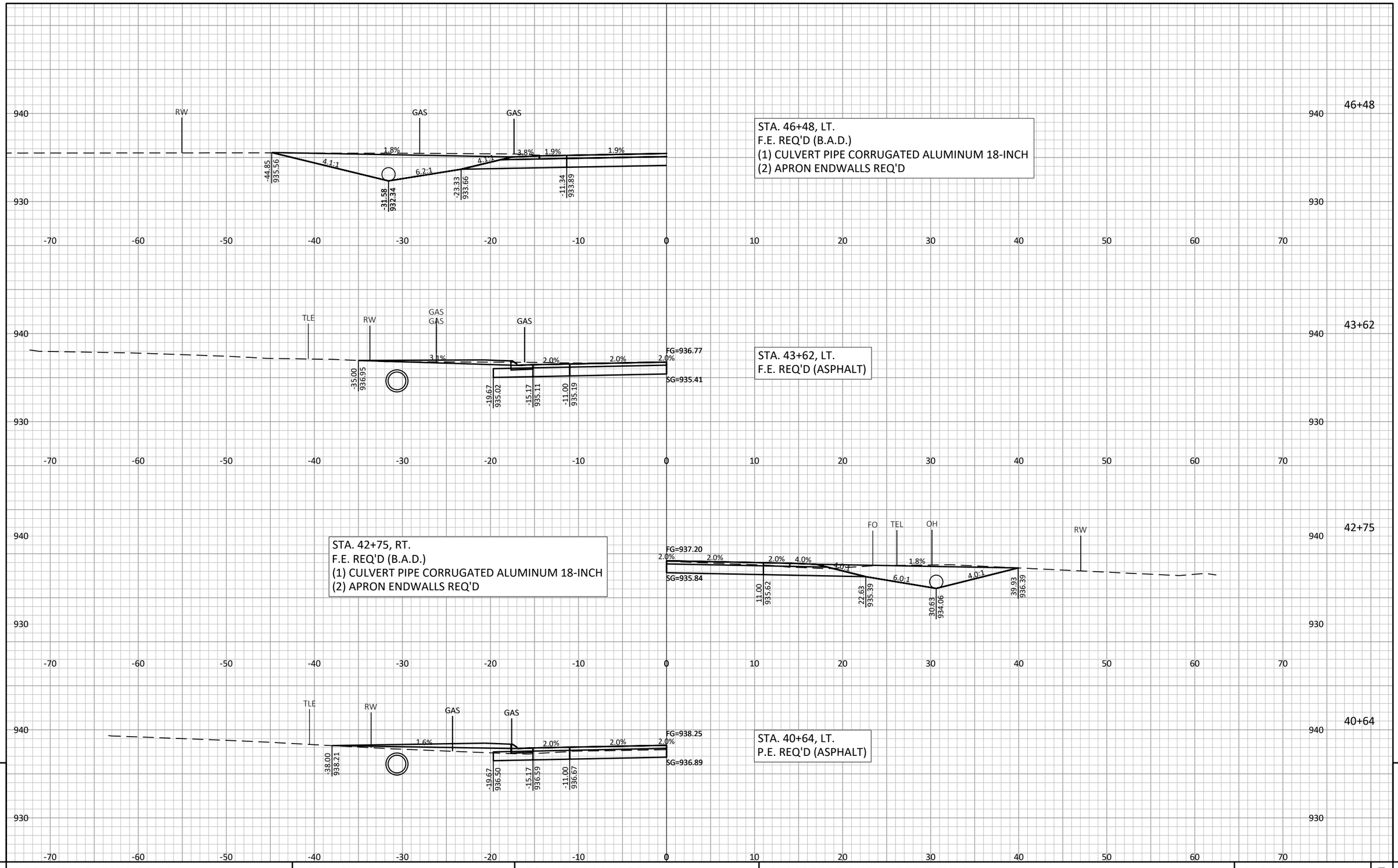
STA. 33+02, RT.
F.E. REQ'D (B.A.D.)



9

9

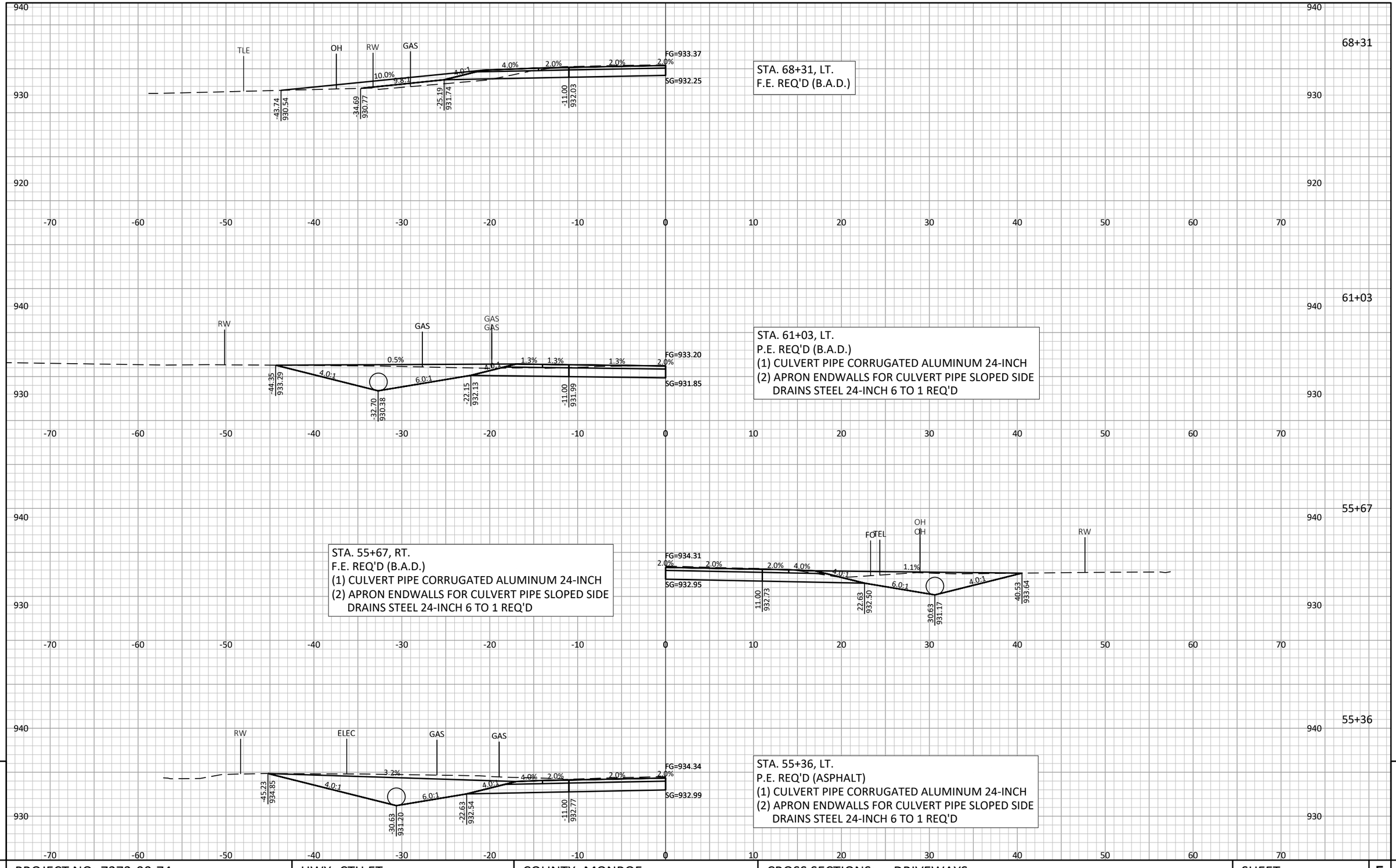
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 284	E



9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 285	E

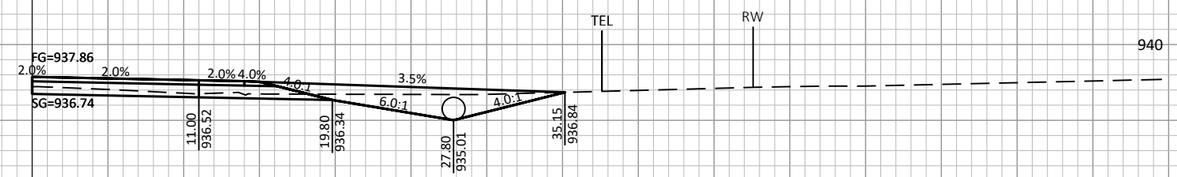


9

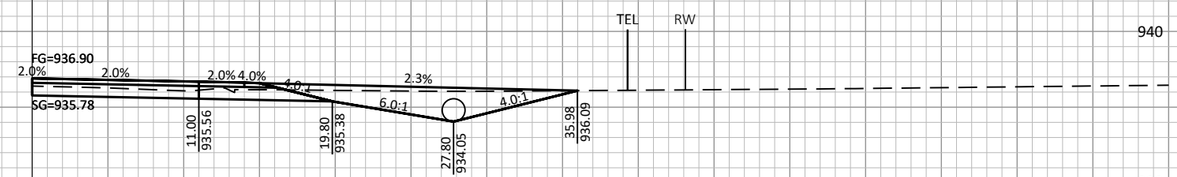
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 286	E

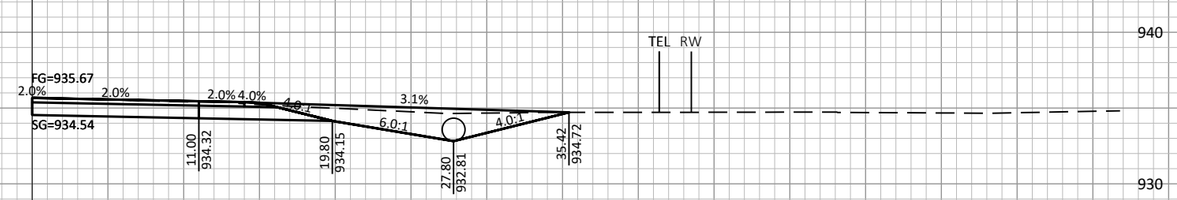
STA. 82+40, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

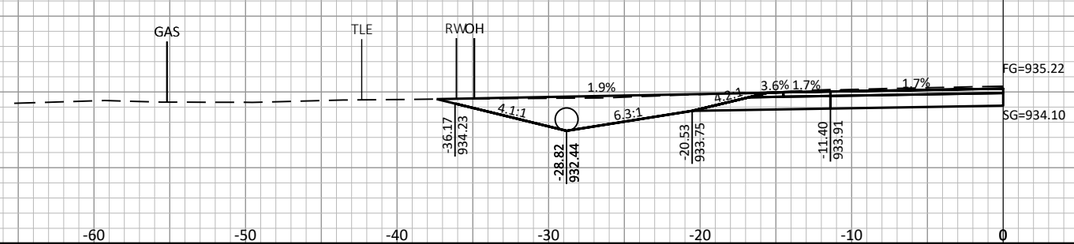


STA. 81+38, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



STA. 80+11, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D





STA. 79+65, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

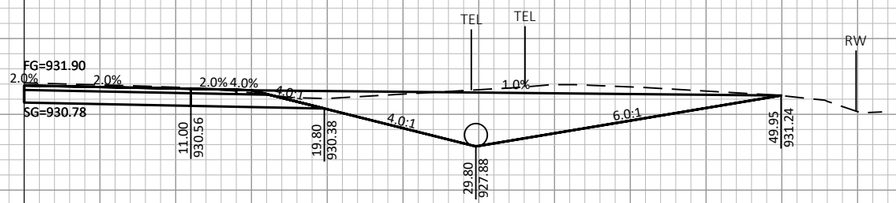
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 287	E

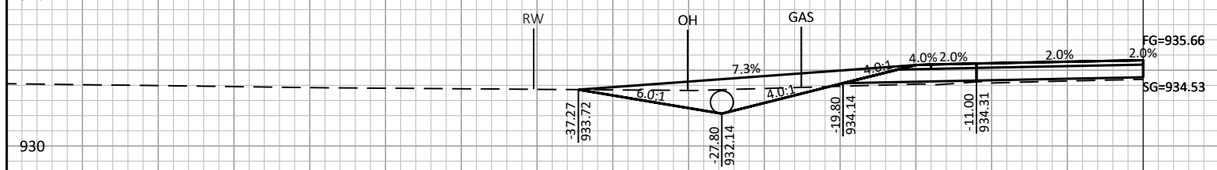
93+50

STA. 93+50, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



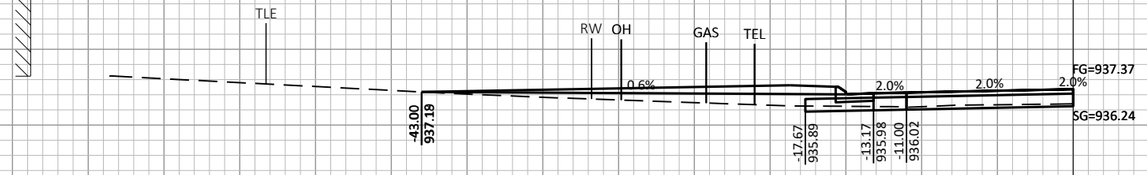
86+14

STA. 86+14, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



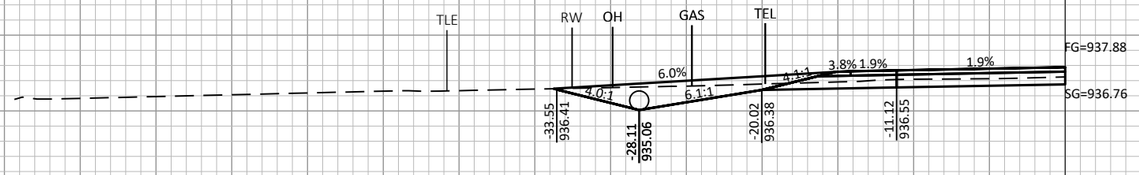
84+58

STA. 84+58, LT.
P.E. REQ'D (ASPHALT)



82+44

STA. 82+44, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 15-INCH
(2) APRON ENDWALLS REQ'D



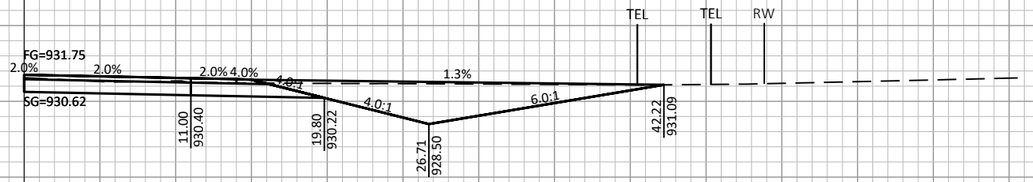
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 288	E

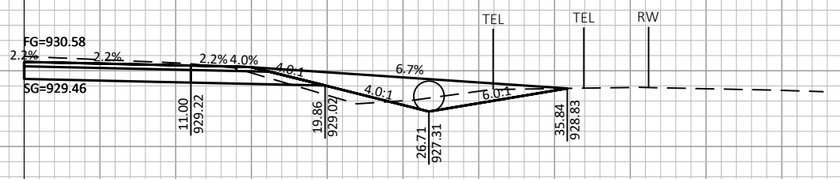
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH NJ)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:59:00 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 113

STA. 114+50, RT.
P.E. REQ'D (ASPHALT)



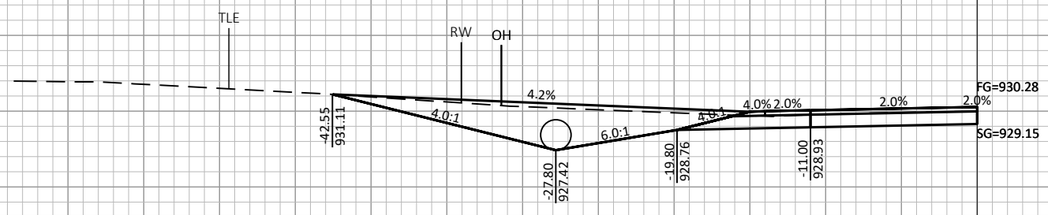
114+50

STA. 108+75, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D



108+75

STA. 97+40, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

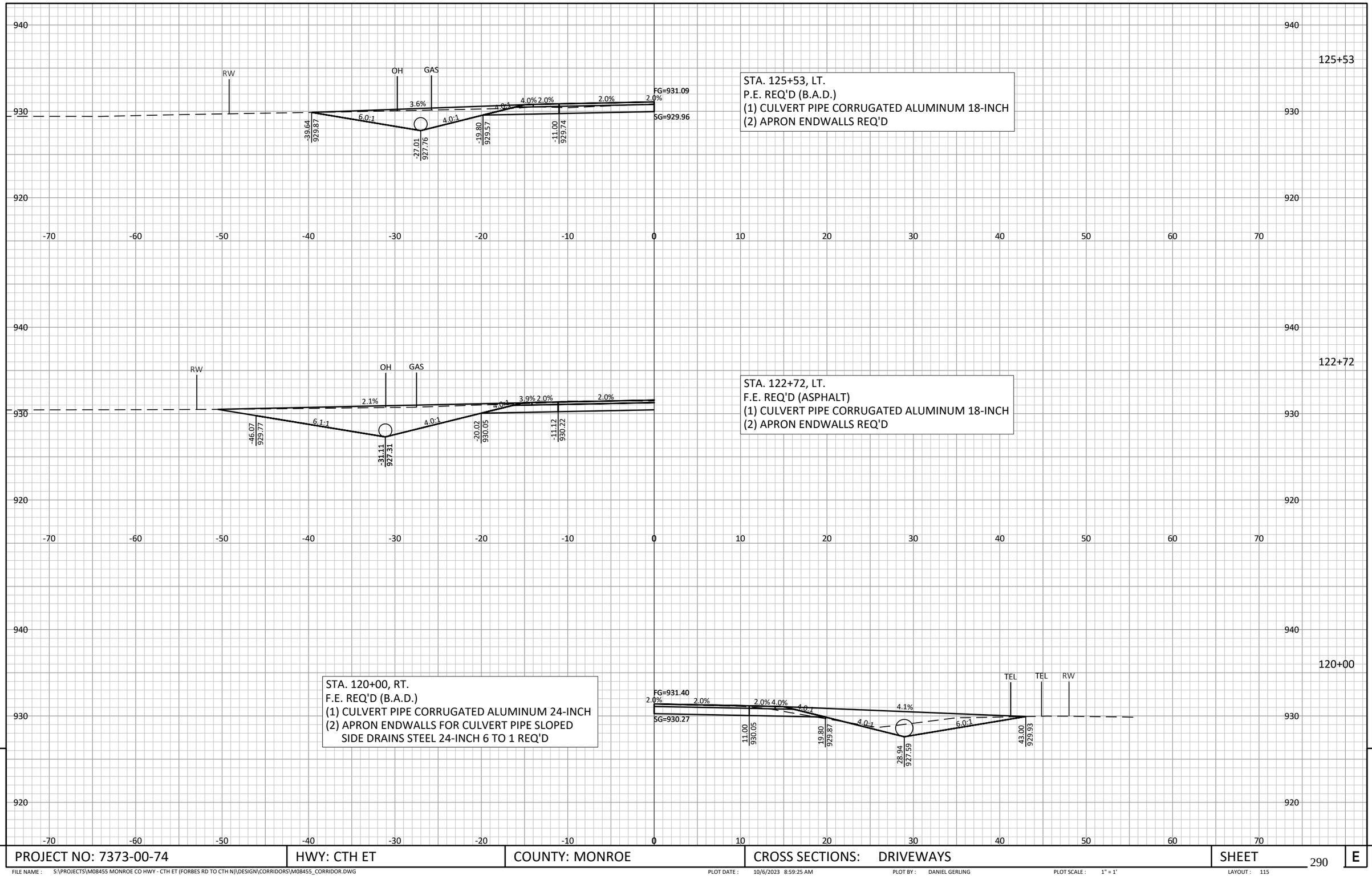


97+40

9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 289	E



STA. 125+53, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 122+72, LT.
F.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 120+00, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D

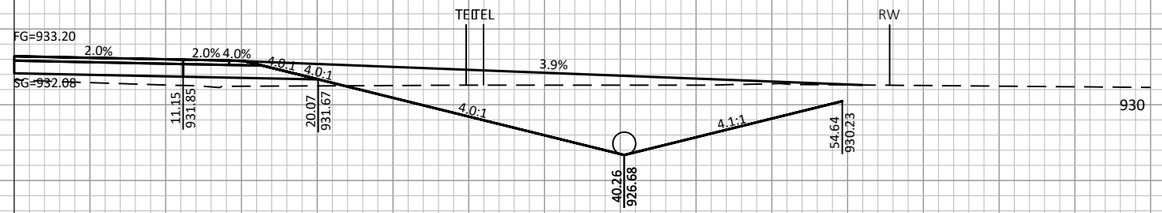
9

9

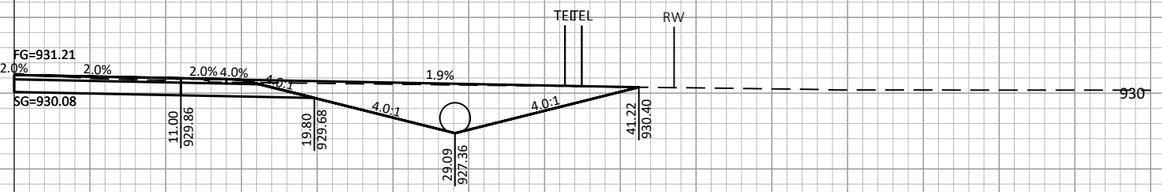
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 290	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:59:25 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 115

STA. 149+47, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



STA. 132+26, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D



9

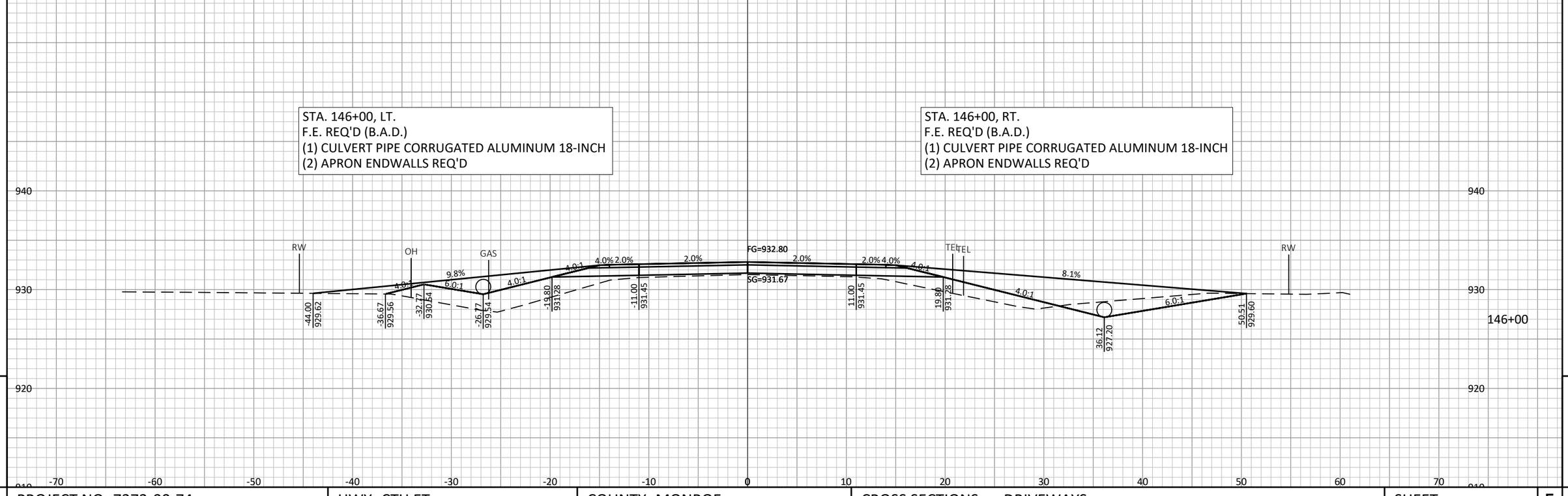
9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:59:36 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 116

STA. 146+00, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

STA. 146+00, RT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



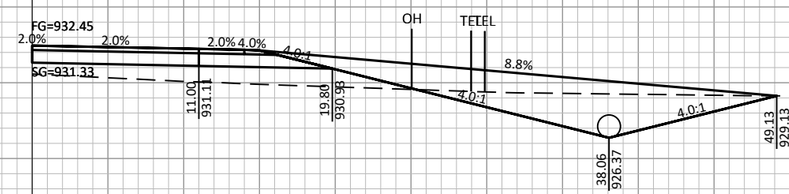
9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 292	E

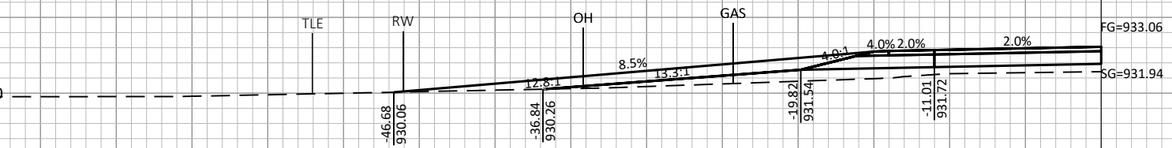
FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:59:47 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 15B

STA. 151+63, RT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



151+63

STA. 149+89, LT.
P.E. REQ'D (B.A.D.)



149+89

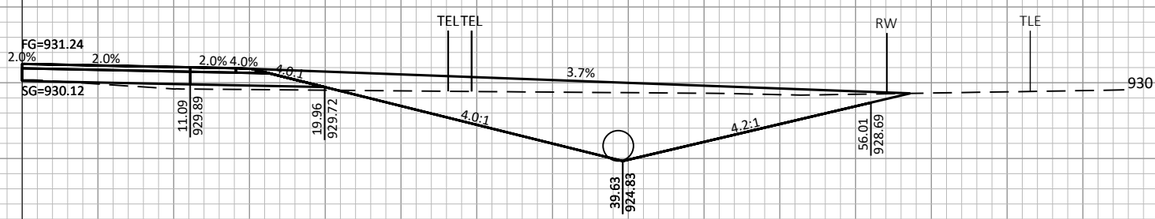
940
930
920
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

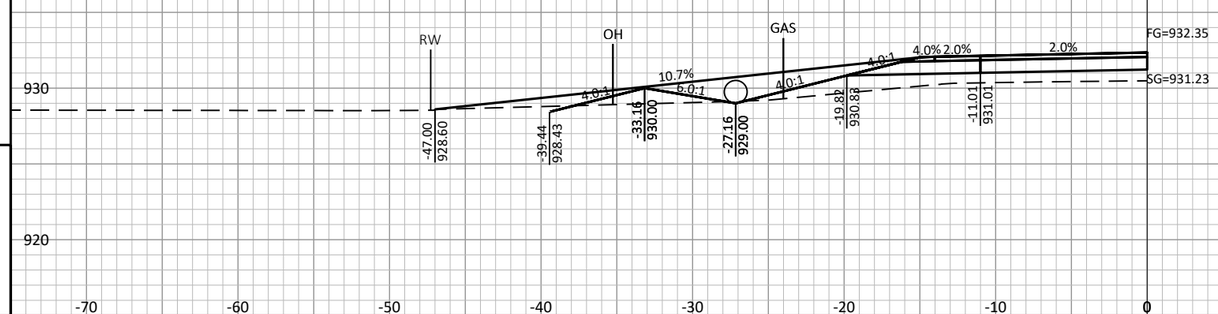
PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 8:59:59 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 117

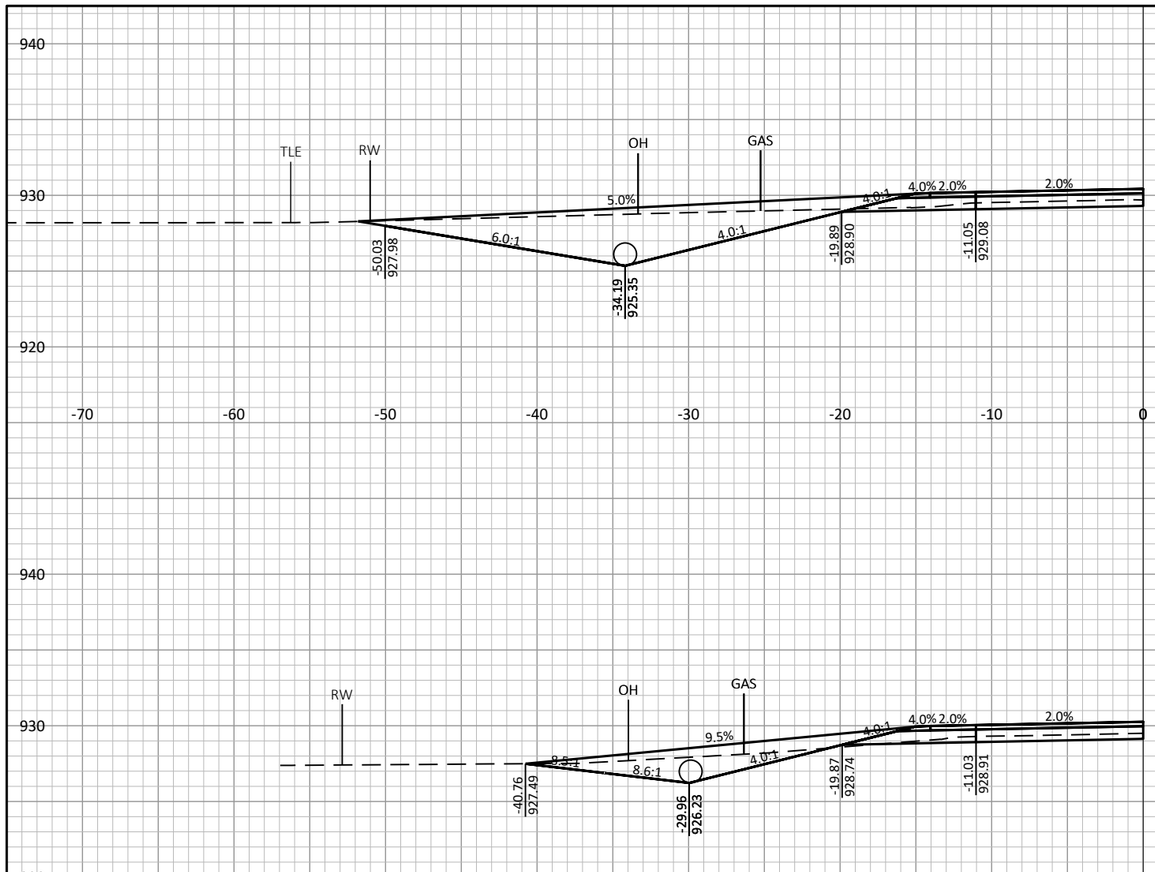
STA. 164+77, RT.
P.E. REQ'D (ASPHALT)
(1) CULVERT PIPE CORRUGATED ALUMINUM 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D



STA. 152+13, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 9:00:10 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 118

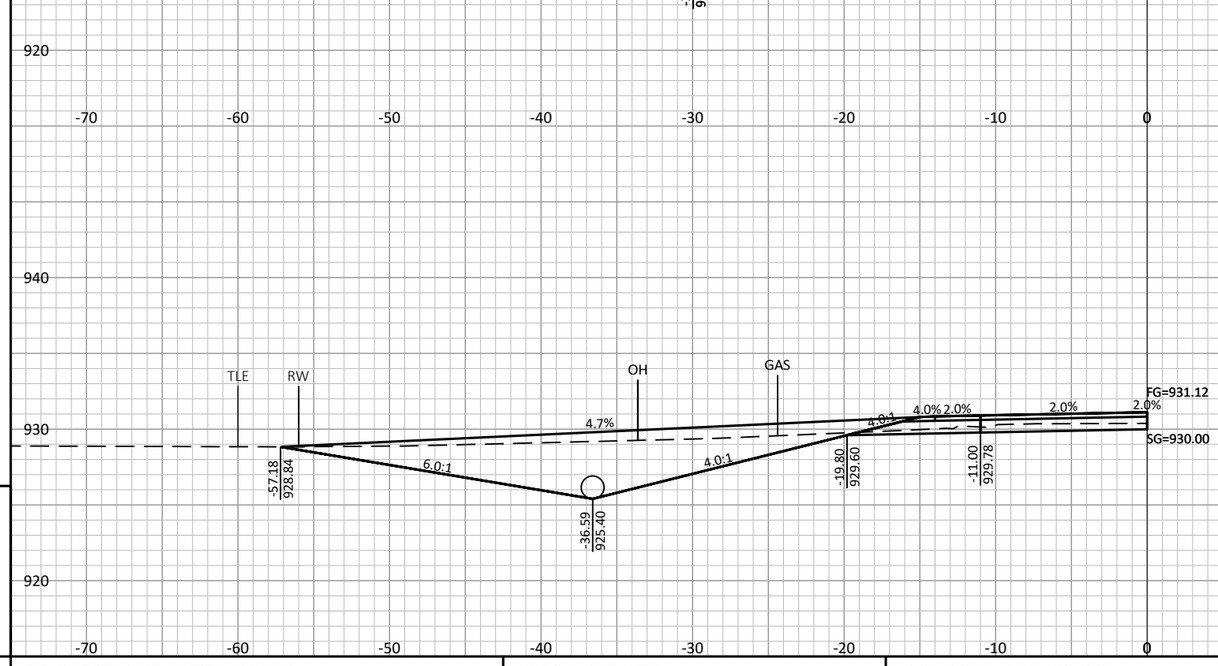


172+55

STA. 172+55, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

168+53

STA. 168+53, LT.
F.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D



165+23

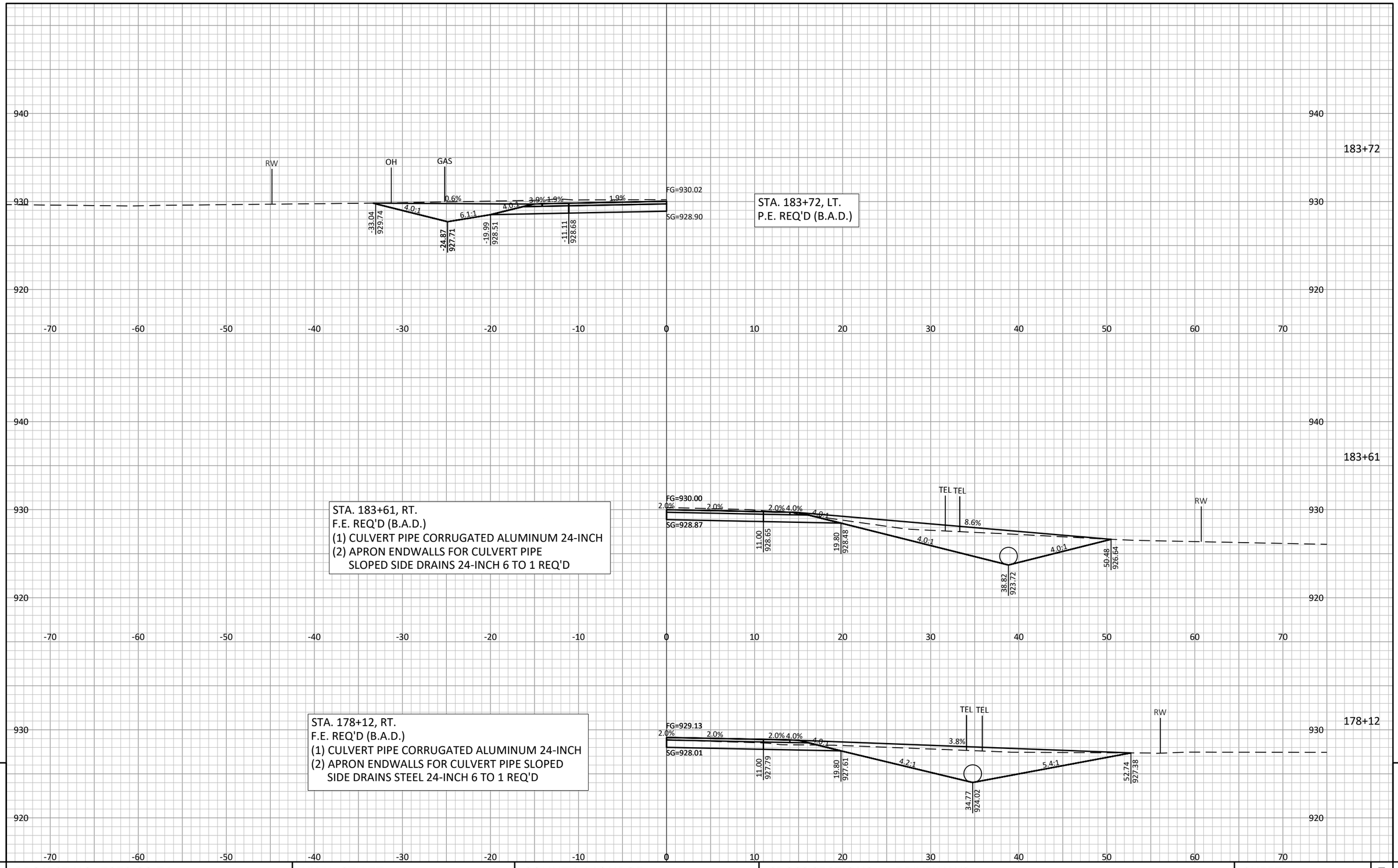
STA. 165+23, LT.
P.E. REQ'D (B.A.D.)
(1) CULVERT PIPE CORRUGATED ALUMINUM 18-INCH
(2) APRON ENDWALLS REQ'D

9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 9:00:22 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 119



9

9

PROJECT NO: 7373-00-74	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET 296	E

FILE NAME : S:\PROJECTS\M08455 MONROE CO HWY - CTH ET (FORBES RD TO CTH N)\DESIGN\CORRIDORS\M08455_CORRIDOR.DWG
PLOT DATE : 10/6/2023 9:00:33 AM
PLOT BY : DANIEL GERLING
PLOT SCALE : 1" = 1'
LAYOUT : 120

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov