PROJECT ID: **7373-00-70**

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 =

N

DESIGN DESIGNATION

A.A.D.T.	(2021)	=	1,410
A.A.D.T.	(2041)	=	2,100
D.H.V.	(2043)	=	189
D.D.		=	60/40
T.		=	10% (ASSUMED)
DESIGN SPEED		=	40 MPH (STA. 11+00 - STA. 15+32); 60 MPH (STA. 15+32 - STA. 115+26.95)
ESALS		=	440,000

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 (95.36)
- 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

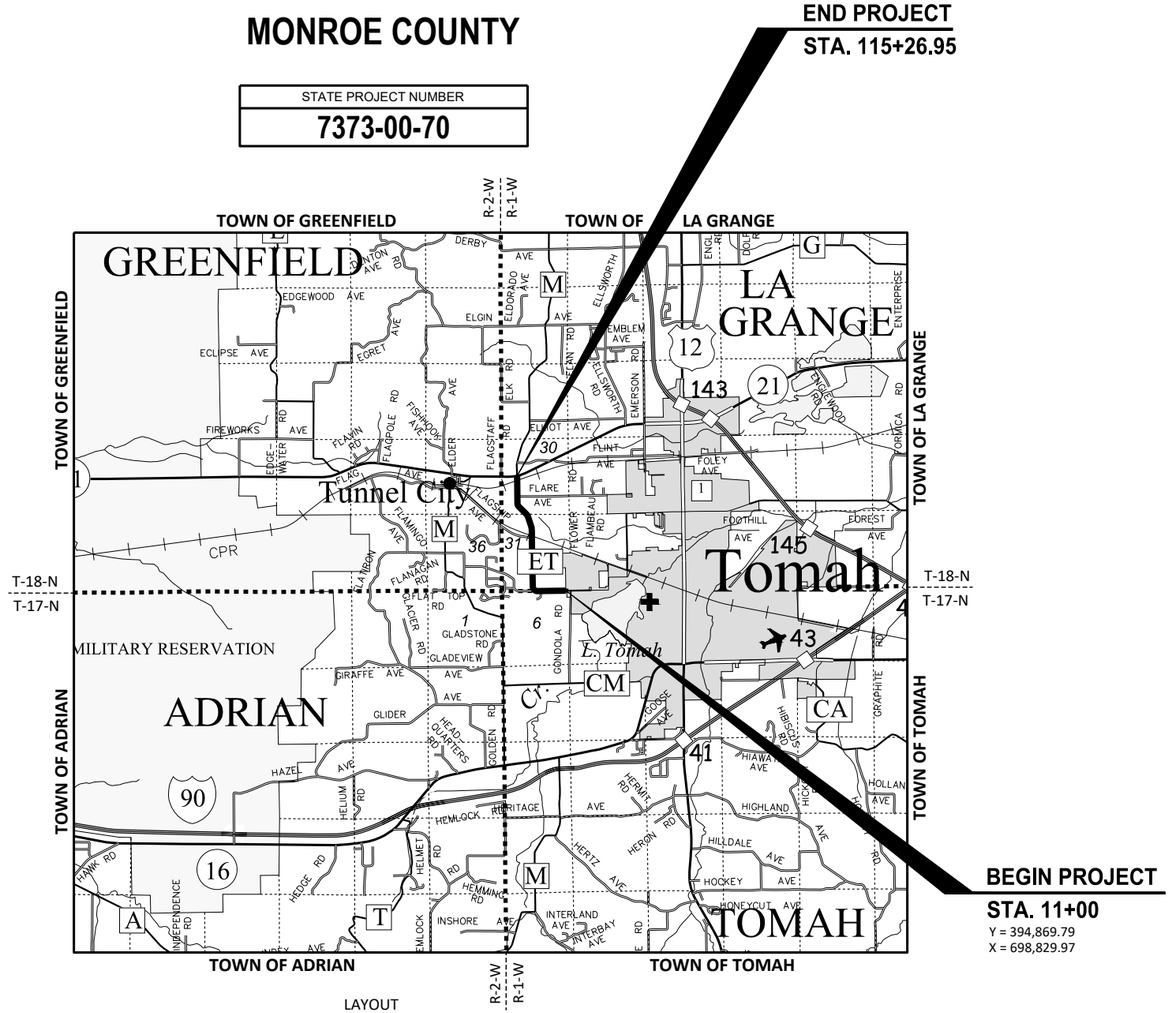
PLAN OF PROPOSED IMPROVEMENT

T OF TOMAH - T OF LA GRANGE

C OF TOMAH TO STH 21

CTH ET
MONROE COUNTY

STATE PROJECT NUMBER
7373-00-70



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 1.975 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, NAVD (2012).

NAVD88

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7373-00-70		

ACCEPTED FOR

COUNTY _____ of MONROE

_____ (Date) _____ (Highway Commissioner)

ORIGINAL PLANS PREPARED BY

JEWELL
associates engineers, inc
Engineers - Architects - Surveyors

_____ (Date) _____ (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	JEWELL ASSOCIATES ENGINEERS, INC
Designer	JEWELL ASSOCIATES ENGINEERS, INC
Project Manager	TRAVIS BUROS, P.E.
Regional Examiner	SW REGION
Regional Supervisor	OSCAR I. WINGER

APPROVED FOR THE DEPARTMENT

DATE:_____

_____ (Signature)

E

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), AND EROSION MATTED/MULCHED AS DIRECTED BY THE ENGINEER. DO NOT USE FERTILIZER IN WETLAND AREAS.

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 WERE 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.

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 115 LB/SY/IN. 4-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A 1 3/4-INCH UPPER LAYER HMA PAVEMENT 4LT58-28S AND A 2 1/4-INCH LOWER LAYER HMA PAVEMENT 3LT 58-28S.

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

STORM SEWER ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS AND CROSS SECTIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATIONS OF CONCRETE OR ASPHALT DRIVEWAYS, CONCRETE 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 AT STA. 95+50 - STA. 97+50, RT.

THE SOILS REPORT MAY BE OBTAINED FROM THE ENGINEER.

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

CONTACTS

DESIGN CONSULTANT:
JEWELL ASSOCIATES ENGINEERS, INC.
560 SUNRISE DRIVE
SPRING GREEN, WI 53588
ATTN: ELLERY SCHAFFER, P.E.
PH: (608) 459-6027
CELL: (608) 341-8159
EMAIL: ellery.schaffer@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:
WISDOT PROJECT MANAGER
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
ATTN:TRAVIS BUROS, P.E.
PH: (608) 789-5702
EMAIL: Travis.Buros@dot.wi.gov

MONROE COUNTY HIGHWAY DEPARTMENT:
DAVID OHNSTAD, COMMISSIONER
803 WASHINGTON STREET
SPARTA, WI 54656
PH: (608) 269-8740
CELL: (608) 487-6216
EMAIL: david.ohnstad@co.monroe.wi.us

TOWN OF LAGRANGE:
JOHN GUTHRIE, CHAIRMAN
27645 ENTITY AVE
TOMAH, WI 54660
PH: (608) 343-0775
EMAIL: townoflagrangeboardchair@gmail.com

TOWN OF TOMAH:
HOWARD HANSON, CHAIRMAN
22341 CTH CM
TOMAH, WI 54660
PH: (608) 372-5483
EMAIL: townoftomah@centrytel.net

UTILITIES

ELECTRICITY

ALLIANT ENERGY
ATTN: PATRICK MCINTYRE
528 INDUSTRIAL DRIVE
TOMAH, WI 54660
PH: (608) 844-9605
EMAIL: patrickmcintyre@alliantenergy.com

OAKDALE ELECTRIC COOPERATIVE
ATTN: ROY BOYLES
P.O. BOX 40
OAKDALE, WI 54649
PH: (608) 372-8851
EMAIL: rboyles@oakdalerec.com

GAS/PETROLEUM

NORTHERN NATURAL GAS COMPANY
ATTN: AUSTIN FEARNOW
1111 S. 103RD STREET
OMAHA, NE 68124
PH: (402) 398-7927
EMAIL: austin.fearnow@nngco.com

WE ENERGIES
ATTN: TRAVIS KAHL
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
PH: (715) 421-7256
EMAIL: travis.kahl@we-energies.com

COMMUNICATION LINE

CENTURYLINK
ATTN: BRIAN STELPHLUGH
333 N FRONT STREET
LA CROSSE, WI 54601
PH: (608) 796-5142
EMAIL: brian.stelplugh@centurylink.com

CHARTER COMMUNICATIONS
ATTN: PERRY McCLELLAN
1228 12TH AVENUE SOUTH
P.O. BOX 279
ONALASKA, WI 54650
PH: (608) 317-6213
EMAIL: perry.mcclellan@charter.com

ROGERS COMMUNICATIONS CANADA, INC.
ATTN: VICKIE MORAN
4804 N 40TH STREET
SHEBOYGAN, WI 53083
PH: (877) 459-2690
EMAIL: vmoran@gabes.com

RAILROAD

CANADIAN PACIFIC RAILROAD
ATTN: BRIAN OSBORNE
120 SOUTH 6TH STREET, SUITE 700
MINNEAPOLIS, MN 55402
PH: (612) 330-4555
EMAIL: brian_osborne@cpr.ca

UNION PACIFIC RAILROAD
ATTN: DAVID LAPLANTE
1400 DOUGLAS STREET
OMAHA, NE 68179
PH: (402) 544-8563
EMAIL: dclapante@up.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
- EROSION CONTROL PLAN
- STORM SEWER 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= 30.56 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 24.57 ACRES

2

N

FLAT IRON AVE.

BEGIN CONSTRUCTION
STA. 299'B'+90

FINISHED C/L 'B'-LINE
(FLAT IRON AVE.)

299'B'

302'B'

304'B'

R/W

35

SLOPE INTERCEPTS

40

45

50

55

60

65

END CONSTRUCTION
STA. 304'B'+95.32

END CONSTRUCTION
STA. 201'A'+18.35

FINISHED C/L 'A'-LINE
(GOLIATH RD.)

30

200'A'

201'A'

GOLIATH RD.

BEGIN CONSTRUCTION
STA. 200'A'+00.88

25

20

FINISHED C/L CTH ET

15

NICHOLAS ST.

BEGIN PROJECT
STA. 11+00

GONDOLA RD.

BEGIN CONSTRUCTION
STA. 400'C'+00

FLAGSHIP AVE.

PACIFIC RR

402'C'

404'C'

FINISHED C/L 'C'-LINE
(FLAGSHIP AVE.)

70

75

80

END CONSTRUCTION
STA. 404'C'+15.75

CANADIAN

WETLAND
DETERMINATION (TYP.)

MATCHLINE STA. 80+00

MATCHLINE STA. 80+00

N

BEGIN CONSTRUCTION
STA. 500'D'+18.00

SLOPE INTERCEPTS

95

100

105

110

115

FINISHED C/L CTH ET

90

85

80

END CONSTRUCTION
STA. 501'D'+50.00

FINISHED C/L 'D'-LINE
(FLARE AVE.)

501'D'

FLARE AVE.

BEGIN CONSTRUCTION
STA. 599'E'+60

STH 21

600'E'

622'E'

PACIFIC RR

UNION

END PROJECT
STA. 115+26.95

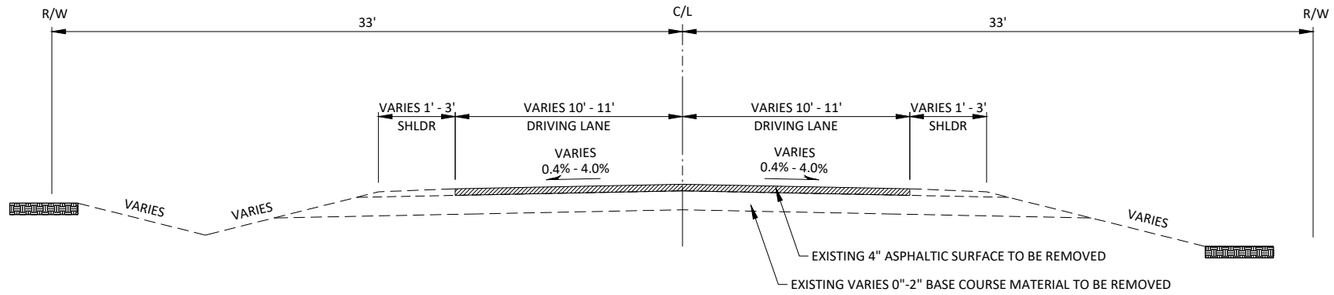
WETLAND
DETERMINATION (TYP.)

END CONSTRUCTION
STA. 603'E'+45

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PROJECT OVERVIEW	SHEET	E

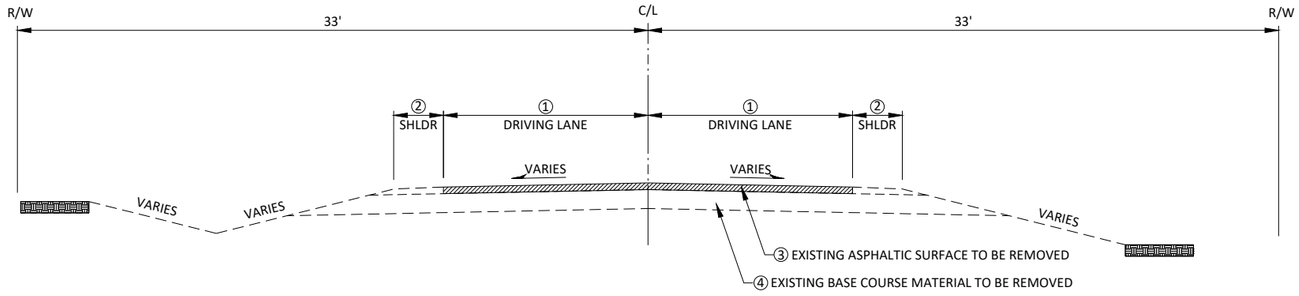
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PROJECT OVERVIEW.DWG PLOT DATE : 9/15/2020 1:22:58 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : PROJECT OVERVIEW

2



TYPICAL EXISTING SECTION

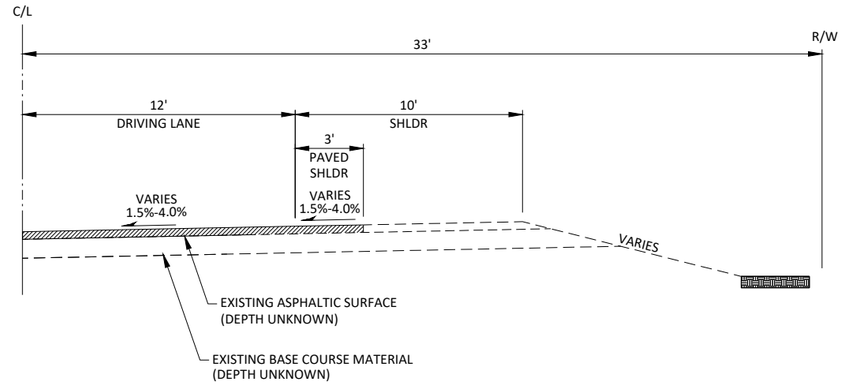
CTH ET
STA. 11+00 - STA. 115+26.95



TYPICAL EXISTING SECTION

SIDEROAD	LOCATION	① (FT.)	② (FT.)	③ (INCH)	④ (INCH)
'A'-LINE (GOLIATH RD.)	STA. 200'A'+00.88 - STA. 201'A'+18.35	9'	VARIES 0'-2'	DEPTH UNKNOWN	DEPTH UNKNOWN
'B'-LINE (FLAT IRON AVE.)	STA. 299'B'+90 - STA. 304'B'+95.32	10'	VARIES 0'-1'	4"	0"
'C'-LINE (FLAGSHIP AVE.)	STA. 400'C'+00 - STA. 404'C'+15.75	10'	VARIES 0'-2'	DEPTH UNKNOWN	DEPTH UNKNOWN
'D'-LINE (FLARE AVE.)	STA. 500'D'+18 - STA. 501'D'+50	10'	VARIES 2'-3'	DEPTH UNKNOWN	DEPTH UNKNOWN

2

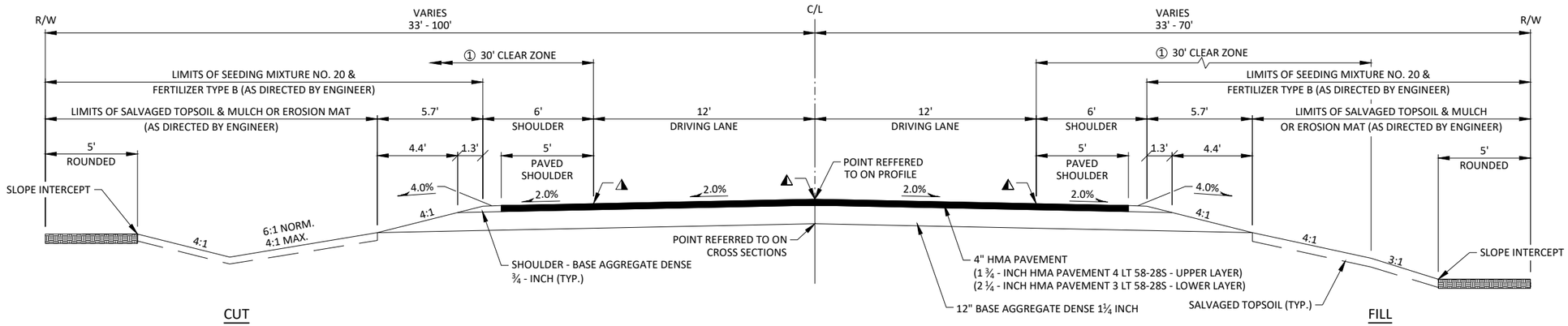


TYPICAL EXISTING SECTION

'E'-LINE (STH 21)
STA. 599'E'+60 - STA. 603'E'+45

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL EXISTING SECTIONS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\TYPICALS\73730070_TYPICALS.DWG PLOT DATE : 9/15/2020 1:23:01 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : TYPICAL EXISTING SECTIONS 2



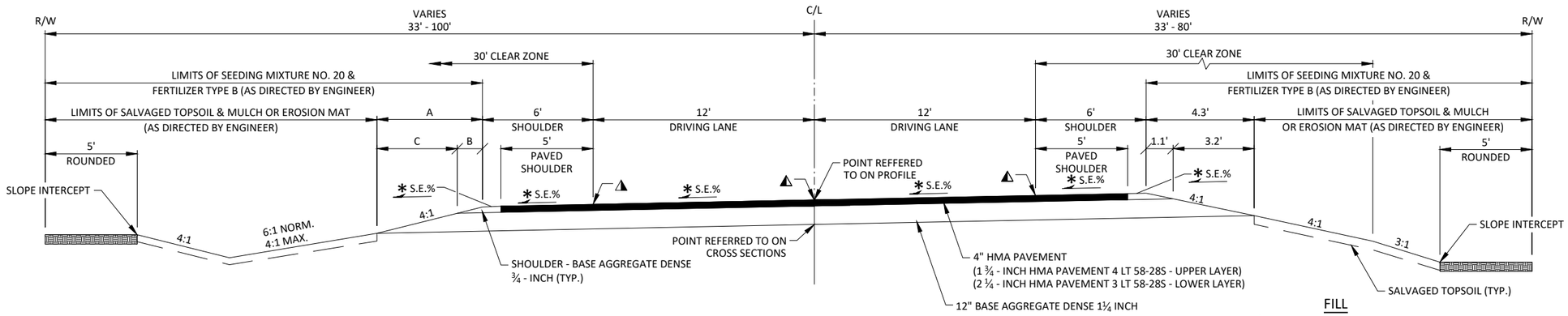
TYPICAL FINISHED SECTION

CTH ET

STA. 11+00 - STA. 11+80	STA. 37+98 - STA. 56+40, RT
STA. 16+00 - STA. 27+92, LT	STA. 59+40 - STA. 66+18, RT
STA. 15+50 - STA. 17+66, RT	STA. 80+40 - STA. 82+67
STA. 22+50 - STA. 27+92, RT	STA. 87+66 - STA. 91+88, RT
STA. 37+98 - STA. 44+50, LT	STA. 88+50 - STA. 91+88, LT
STA. 47+50 - STA. 68+43, LT	STA. 98+20 - STA. 111+25

① 14' CLEAR ZONE
- STA. 11+00 - STA. 11+80

⚠ ASPHALTIC CENTERLINE RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL & ASPHALTIC SHOULDER RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL REQ'D (EXCEPT STA 11+00 - STA. 15+32). SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS.



TYPICAL FINISHED SUPERELEVATED SECTION

CTH ET

STA. 27+92 - STA. 37+98	STA. 82+67 - STA. 87+66, RT
STA. 68+43 - STA. 69+77	STA. 82+67 - STA. 84+50, LT
STA. 71+50 - STA. 80+40, LT	STA. 91+88 - STA. 98+20
STA. 71+50 - STA. 77+50, RT	STA. 111+25 - STA. 111+35
STA. 79+50 - STA. 80+40, RT	

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

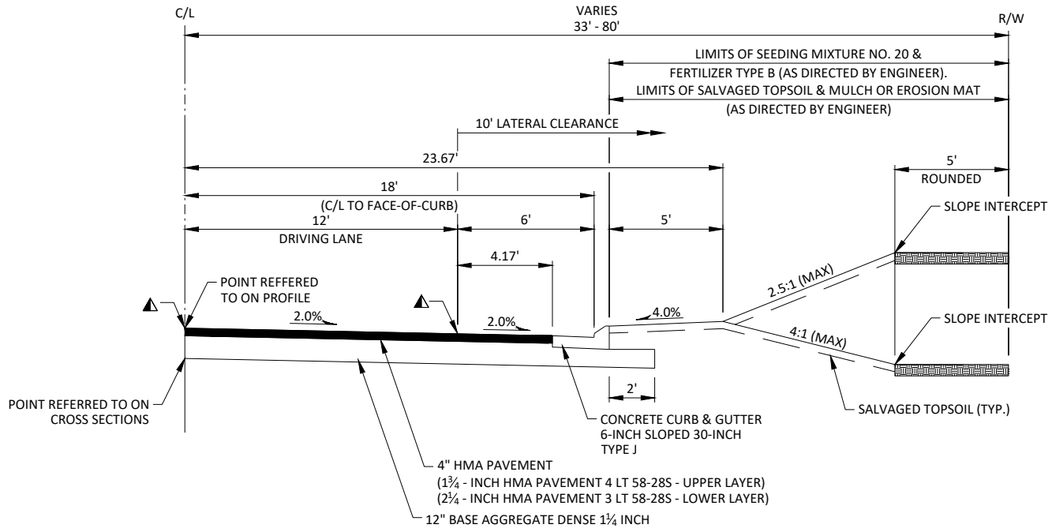
A/B/C - SEE SUPERELEVATION TABLE FOR DIMENSIONS

⚠ ASPHALTIC CENTERLINE RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL & ASPHALTIC SHOULDER RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL REQ'D (EXCEPT STA 11+00 - STA. 15+32). SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS.

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION 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 SECTION EQUALS THE SUPERELEVATION.

NOTE: 4:1 FORESLOPE/ 6:1 BACKSLOPE -
STA. 48+50 - STA. 51+50, LT
STA. 106+50 - STA. 109+50, LT

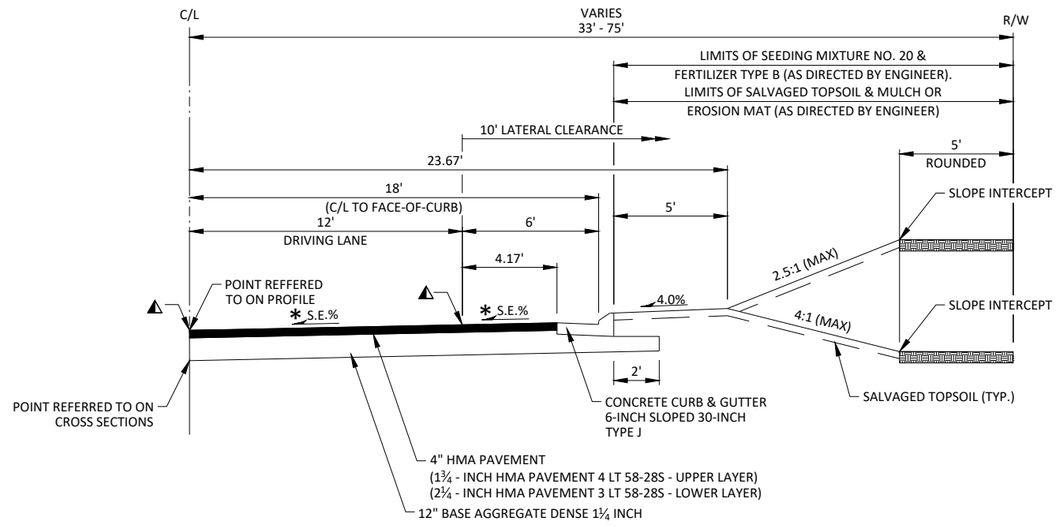
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET	E



TYPICAL FINISHED HALF URBAN SECTION

CTH ET
STA. 11+80 - STA. 16+00, LT
STA 11+80 - STA. 15+50, RT
STA. 17+73 - STA. 22+50, RT
STA. 44+50 - STA. 47+50, LT
STA. 56+40 - STA. 59+50, RT
STA. 66+18 - STA. 68+50, RT
STA. 87+66 - STA. 88+50, LT
STA. 112+85 - STA. 115+26.95

⚠ ASPHALTIC CENTERLINE RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL & ASPHALTIC SHOULDER RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL REQ'D (EXCEPT STA 11+00 - STA. 15+32). SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS.



TYPICAL FINISHED HALF SUPERELEVATED SECTION

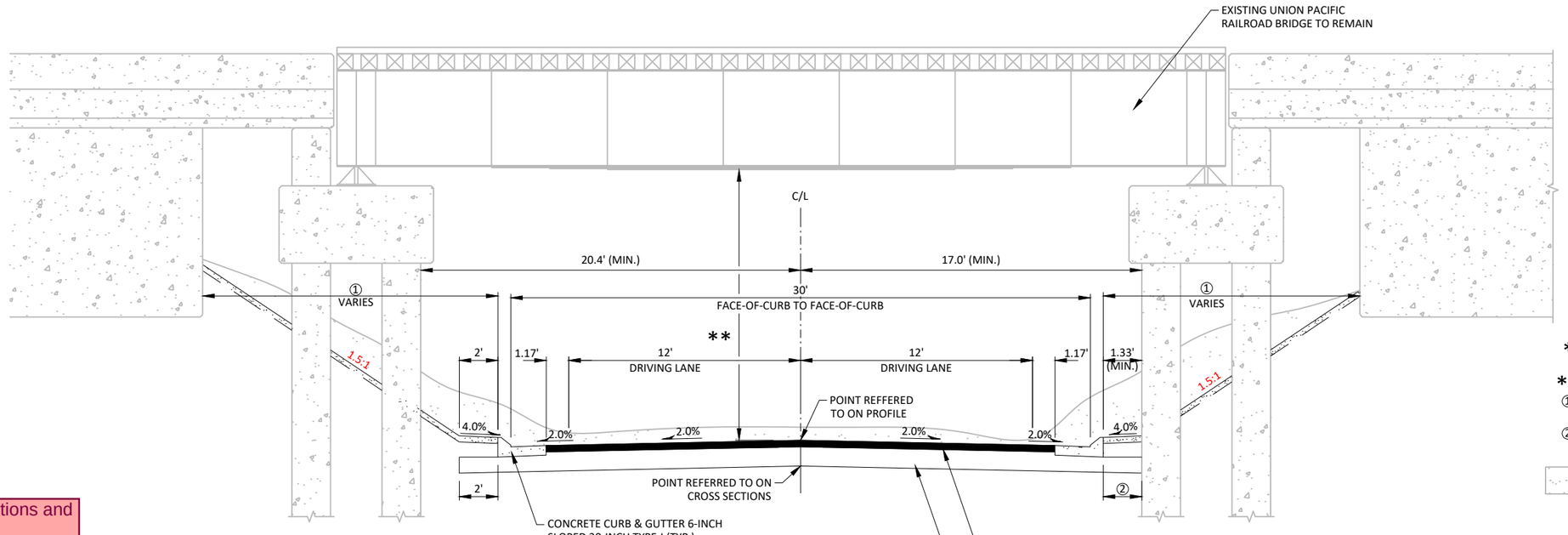
CTH ET
STA. 77+50 - STA. 79+50, RT
STA. 84+50 - STA. 87+66, LT

⚠ ASPHALTIC CENTERLINE RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL & ASPHALTIC SHOULDER RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL REQ'D (EXCEPT STA 11+00 - STA. 15+32). SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS.

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

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION
CTH ET
(AT UNION PACIFIC RAILROAD UNDERPASS)
STA. 111+35 - STA. 112+85

* SEE SUPERELEVATION TABLE
STA. 111+35 - STA. 112+11

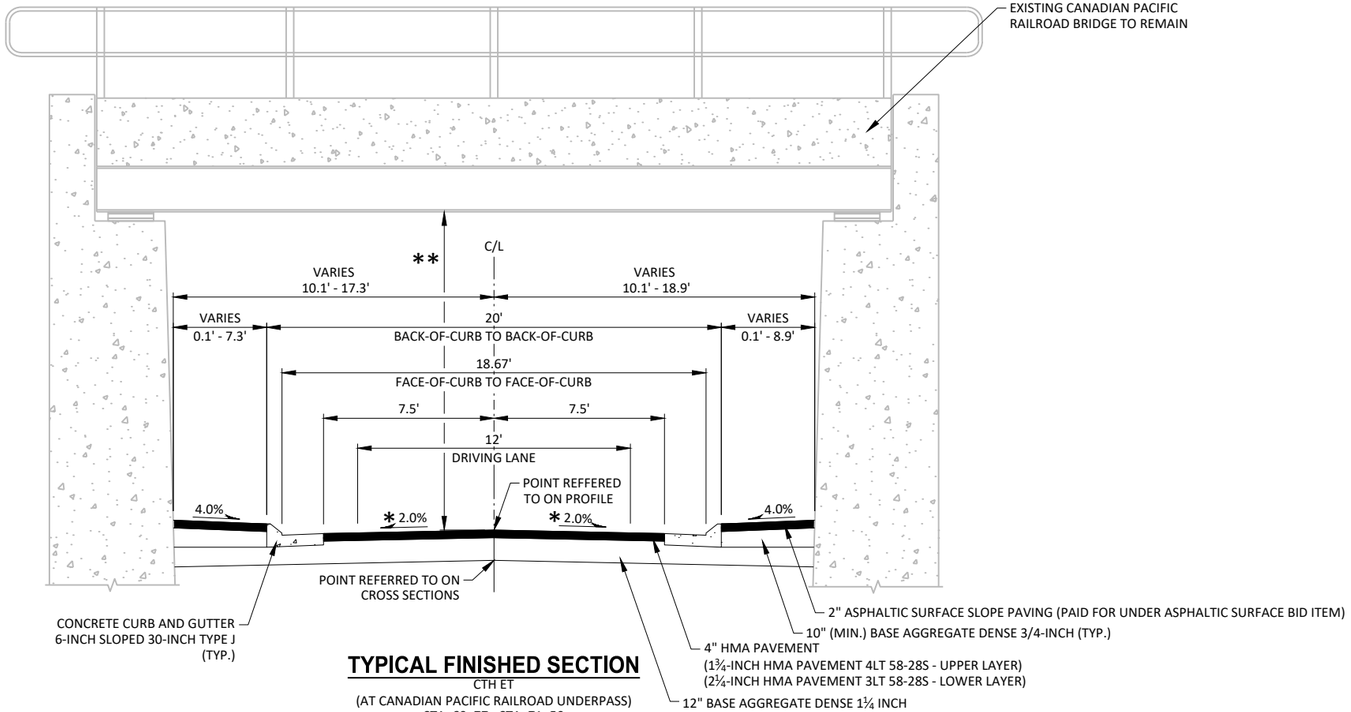
** 14.0' (MIN.) VERTICAL CLEARANCE

① LIMITS OF SLOPE PAVING
CRUSHED AGGREGATE REQ'D.

② 2' NORMAL (TYP.)
1.33' (MIN.)

LIMITS OF EXCAVATION COMMON (TO BE PAID FOR UNDER SLOPE PAVING CRUSHED AGGREGATE BID ITEM).

Update these cross-sections and estimate/bid items once statewide railroad engineer has approved.



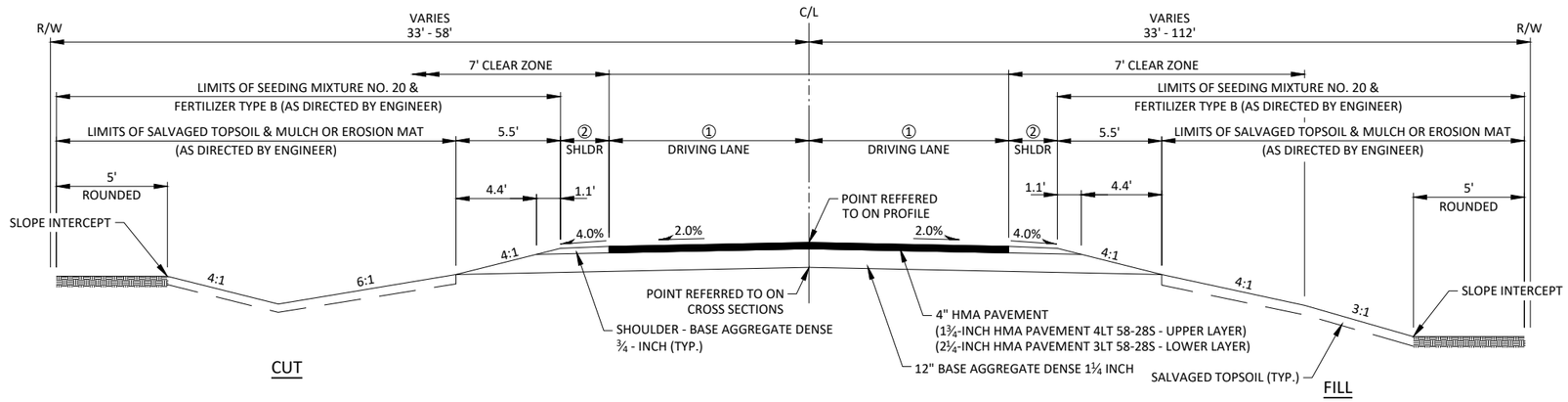
TYPICAL FINISHED SECTION
CTH ET
(AT CANADIAN PACIFIC RAILROAD UNDERPASS)
STA. 69+77 - STA. 71+50

* SEE SUPERELEVATION TABLE
STA. 69+77 - STA. 70+07
STA. 70+92 - STA. 71+50

** 14'-0" (MIN) VERTICAL CLEARANCE

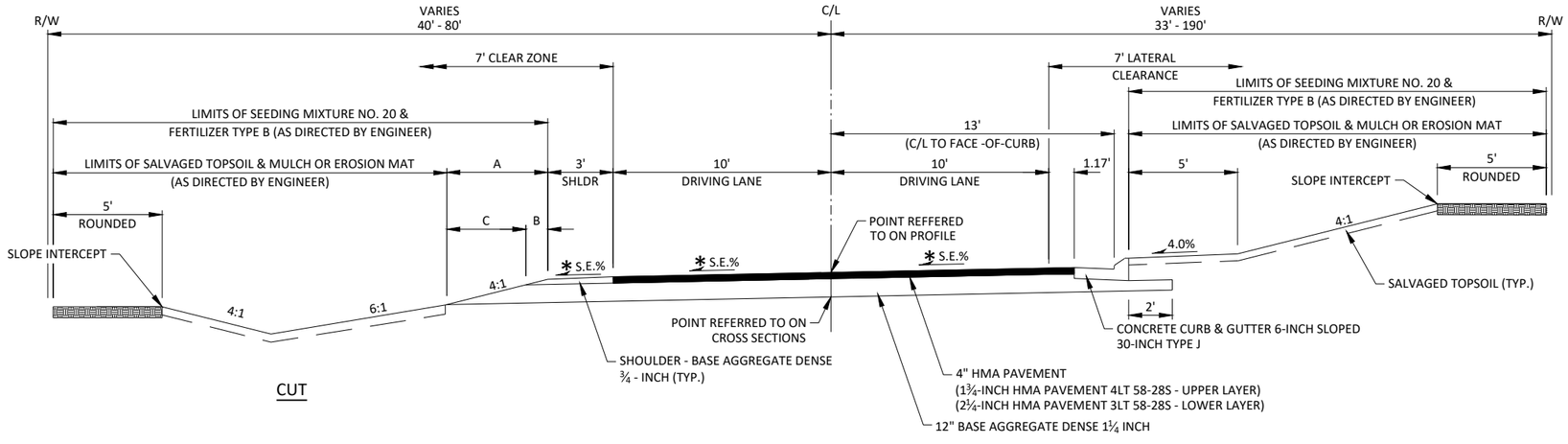
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

SIDEROAD NAME	(STATION - STATION)	① (FT.)	② (FT.)
'A'-LINE (GOLIATH RD)	STA. 200'A'+00.88 - STA. 201'A'+18.35	9	2
'D'-LINE (FLARE AVE.)	STA. 500'D'+18 - STA. 501'D'+50	10	3



TYPICAL FINISHED SUPERELEVATED SECTION

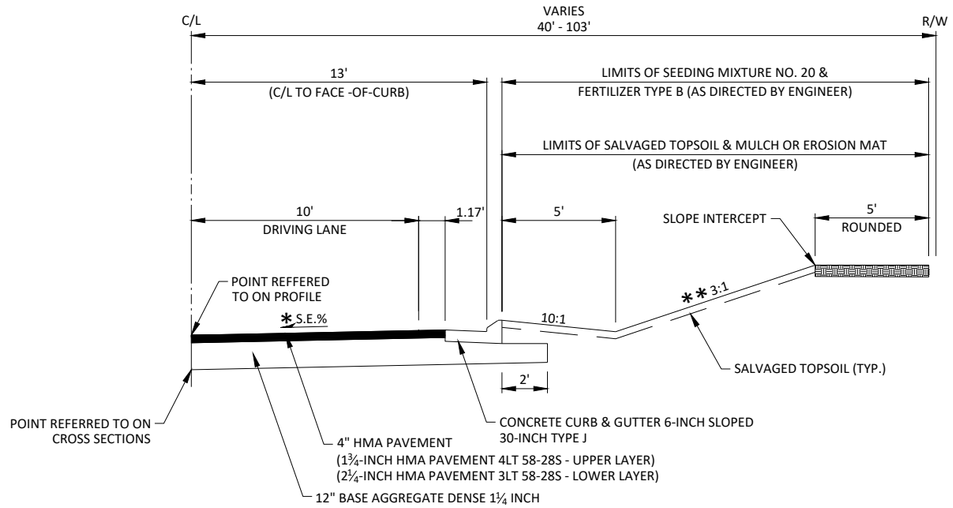
'B'-LINE (FLAT IRON AVE.)
STA. 300'B'+00 - STA. 304'B'+95.32, LT
STA. 300'B'+00 - STA. 302'B'+26,RT
STA. 303'B'+86 - STA. 304'B'+95.32,RT

✱ S.E. - SEE SUPERELEVATION TABLE FOR SUPERELEVATION RATES
NOTE:- STA. 300'B'+00 - STA. 301'B'+90 - NORMAL CROWN

A/B/C - SEE SUPERELEVATION TABLE FOR DIMENSIONS

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION 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 SECTION EQUALS THE SUPERELEVATION.

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET	E

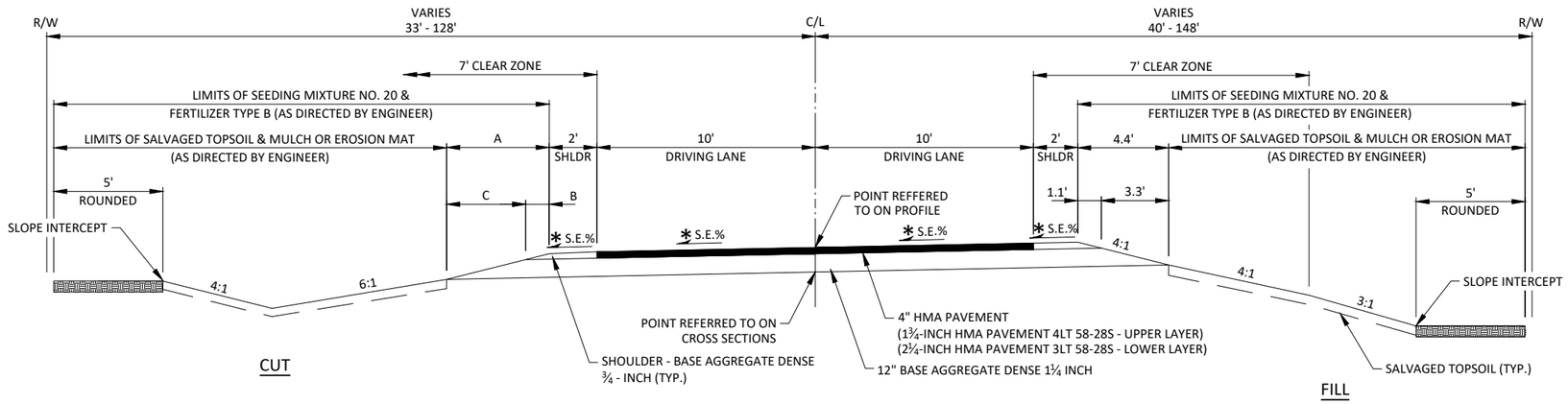


TYPICAL HALF FINISHED SUPERELEVATED URBAN SECTION WITH DITCH

STA. 302'B'+26 - STA. 303'B'+86, RT

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

** STA. 302'B'+75 - STA. 303'B'+25, RT - 2.0:1 (MAX)



TYPICAL FINISHED SECTION

'C'-LINE (FLAGSHIP AVE)
STA. 400'C'+00 - STA. 404'C'+15.75

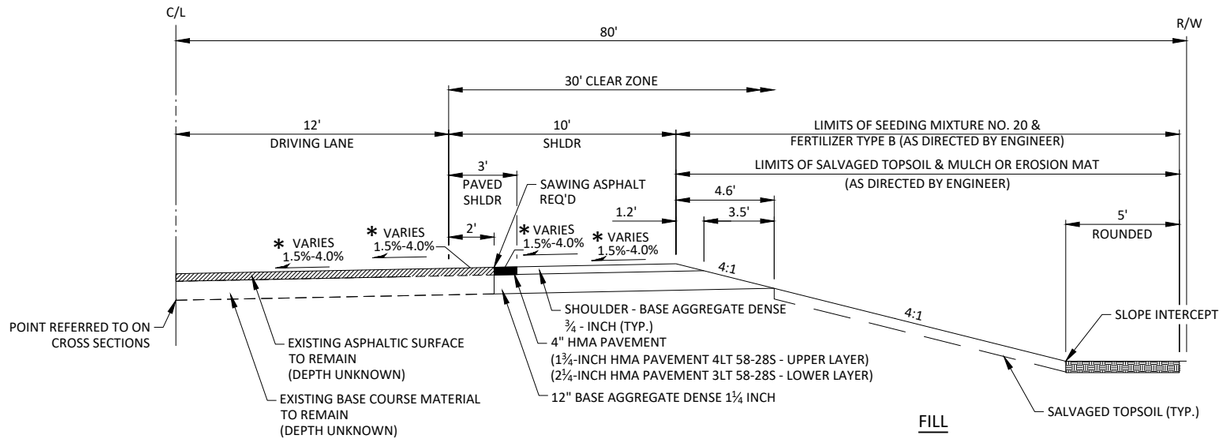
* S.E. - SEE SUPERELEVATION TABLE FOR SUPERELEVATION RATES

A/B/C - SEE SUPERELEVATION TABLE FOR DIMENSIONS

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION 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 SECTION EQUALS THE SUPERELEVATION.

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET	E

2



TYPICAL FINISHED SUPERELEVATED SECTION

'E'-LINE (STH 21)
STA. 599'E'+60 - STA. 603'E'+45, RT

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

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION 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 SECTION EQUALS THE SUPERELEVATION.

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TYPICAL FINISHED SECTIONS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\TYPICALS\73730070_TYPICALS.DWG PLOT DATE : 9/15/2020 1:23:04 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : TYPICAL FINISHED SECTIONS 6

SUPERELEVATION TABLE-CURVE 1

MAINTAIN NORMAL CROWN THROUGH CURVE 1

SUPERELEVATION TABLE-CURVE 2

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
27+92	◄ 2.0	► 2.0	5.7	1.3	4.4
28+00	◄ 1.6	► 2.0	5.7	1.3	4.4
28+50	► 0.8	► 2.0	5.7	1.3	4.4
29+00	► 3.2	► 3.2	6.1	1.5	4.6
29+50	► 5.6	► 5.6	6.9	1.7	5.2
29+57	► 6.0	► 6.0	7.0	1.7	5.3
FULL SUPERELEVATION					
36+33	► 6.0	► 6.0	7.0	1.7	5.3
36+50	► 5.2	► 5.2	6.7	1.7	5.0
37+00	► 2.8	► 2.8	6.0	1.5	4.5
37+50	► 0.3	► 2.0	5.7	1.3	4.4
37+98	◄ 2.0	► 2.0	5.7	1.3	4.4

SUPERELEVATION TABLE-CURVE 3

MAINTAIN NORMAL CROWN THROUGH CURVE 3

SUPERELEVATION TABLE-CURVE 4

MAINTAIN NORMAL CROWN THROUGH CURVE 4

SUPERELEVATION TABLE-CURVE 5

MAINTAIN NORMAL CROWN THROUGH CURVE 5

SUPERELEVATION TABLE-CURVE 6

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
68+43	◄ 2.0	► 2.0	5.7	1.3	4.4
68+50	◄ 1.7	► 2.0	5.7	1.3	4.4
69+00	► 0.7	► 2.0	5.7	1.3	4.4
69+25	► 2.0	► 2.0	5.7	1.3	4.4
69+50	► 0.8	► 2.0	5.7	1.3	4.4
70+00	◄ 1.7	► 2.0	5.7	1.3	4.4
70+07	◄ 2.0	► 2.0	5.7	1.3	4.4

— WINGWALL - CANADIAN PACIFIC RAILROAD BRIDGE

SUPERELEVATION TABLE-CURVE 7

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
70+92	◄ 2.0	► 2.0	5.7	1.3	4.4
71+00	◄ 2.0	► 1.7	5.7	1.3	4.4
71+50	◄ 2.0	◄ 0.2	5.7	1.3	4.4
71+97	◄ 2.0	◄ 2.0	5.7	1.3	4.4

— WINGWALL - CANADIAN PACIFIC RAILROAD BRIDGE

SUPERELEVATION TABLE-CURVE 8

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
71+97	◄ 2.0	◄ 2.0	5.7	1.3	4.4
72+00	◄ 2.1	◄ 2.1	5.7	1.3	4.4
72+50	◄ 3.9	◄ 3.9	6.3	1.6	4.7
73+00	◄ 5.8	◄ 5.8	6.9	1.7	5.2
73+05	◄ 6.0	◄ 6.0	7.0	1.7	5.3
FULL SUPERELEVATION					
74+22	◄ 6.0	◄ 6.0	7.0	1.7	5.3

SUPERELEVATION TABLE-CURVE 9

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
74+22	◄ 6.0	◄ 6.0	7.0	1.7	5.3
FULL SUPERELEVATION					
76+39	◄ 6.0	◄ 6.0	7.0	1.7	5.3
76+50	◄ 5.5	◄ 5.5	6.8	1.7	5.1
77+00	◄ 3.2	◄ 3.2	6.1	1.5	4.6
77+50	◄ 1.0	◄ 1.0	5.6	1.4	4.2
77+72	0.0	0.0	5.3	1.3	4.0

SUPERELEVATION TABLE-CURVE 10

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
77+72	0.0	0.0	5.3	1.3	4.0
78+00	► 1.0	► 1.0	5.6	1.4	4.2
78+50	► 2.9	► 2.9	6.0	1.5	4.5
78+79	► 4.2	► 4.2	6.4	1.6	4.8
79+00	► 3.2	► 3.2	6.1	1.5	4.6
79+50	► 1.4	► 2.0	5.7	1.3	4.4
80+00	◄ 0.5	► 2.0	5.7	1.3	4.4
80+40	◄ 2.0	► 2.0	5.7	1.3	4.4

SUPERELEVATION TABLE-CURVE 11

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
82+67	◄ 2.0	► 2.0	5.7	1.3	4.4
83+00	◄ 2.0	► 0.4	5.7	1.3	4.4
83+50	◄ 2.1	◄ 2.1	5.7	1.3	4.4
84+00	◄ 4.5	◄ 4.5	6.5	1.6	4.9
84+32	◄ 6.0	◄ 6.0	7.0	1.7	5.3
FULL SUPERELEVATION					
86+03	◄ 6.0	◄ 6.0	7.0	1.7	5.3
86+50	◄ 3.7	◄ 3.7	6.3	1.6	4.7
87+00	◄ 2.0	◄ 1.3	5.7	1.3	4.4
87+50	◄ 2.0	◄ 1.1	5.7	1.3	4.4
87+66	◄ 2.0	◄ 2.0	5.7	1.3	4.4

SUPERELEVATION TABLE-CURVE 12

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
91+88	◄ 2.0	► 2.0	5.7	1.3	4.4
92+00	◄ 1.4	► 2.0	5.7	1.3	4.4
92+50	► 1.0	► 2.0	5.7	1.3	4.4
93+00	► 3.4	► 3.4	6.1	1.5	4.6
93+50	► 5.9	► 5.9	7.0	1.7	5.3
93+53	► 6.0	► 6.0	7.0	1.7	5.3
FULL SUPERELEVATION					
96+55	► 6.0	► 6.0	7.0	1.7	5.3
97+00	► 3.8	► 3.8	6.3	1.6	4.7
97+50	► 1.4	► 2.0	5.7	1.3	4.4
98+00	◄ 1.0	► 2.0	5.7	1.3	4.4
98+20	◄ 2.0	► 2.0	5.7	1.3	4.4

SUPERELEVATION TABLE-CURVE 13

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
111+25	◄ 2.0	► 2.0	5.7	1.3	4.4
111+50	◄ 2.0	► 0.8	5.7	1.3	4.4
111+68	◄ 2.0	► 0.0	5.7	1.3	4.4
112+00	◄ 2.0	► 1.5	5.7	1.3	4.4
112+11	◄ 2.0	► 2.0	5.7	1.3	4.4

SUPERELEVATION TABLE-CURVE 14

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
301'B'+90	◄ 2.0	► 2.0	5.6	1.2	4.4
302'B'+00	◄ 2.0	► 1.4	5.6	1.2	4.4
302'B'+50	◄ 2.0	◄ 1.5	5.6	1.2	4.4
303'B'+00	◄ 4.4	◄ 4.4	6.5	1.6	4.9
303'B'+27	◄ 6.0	◄ 6.0	7.0	1.7	5.3
FULL SUPERELEVATION					
303'B'+58	◄ 6.0	◄ 6.0	7.0	1.7	5.3
304'B'+00	◄ 3.5	◄ 3.5	6.2	1.5	1.7
304'B'+50	► 0.3	► 0.3	5.4	1.3	4.1
304'B'+95.32	► 0.3	► 0.3	5.4	1.3	4.1

SUPERELEVATION TABLE-CURVE 15

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
400'C'+00	MATCH EXISTING	MATCH EXISTING			
400'C'+50	◄ 0.5	► 2.0	5.7	1.3	4.4
401'C'+00	► 0.9	► 2.0	5.7	1.3	4.4
401'C'+37	► 2.0	► 2.0	5.7	1.3	4.4
401'C'+50	► 1.7	► 1.7	5.7	1.3	4.4
402'C'+00	► 0.5	► 0.5	5.5	1.3	4.2
402'C'+20	0.0	0.0	5.3	1.3	4.0

SUPERELEVATION TABLE-CURVE 16

STATION	LEFT(%)	RIGHT(%)	A (FT)	B (FT)	C (FT)
402'C'+20	0.0	0.0	5.3	1.3	4.0
402'C'+50	◄ 1.5	◄ 1.5	5.7	1.4	4.3
403'C'+00	◄ 4.0	◄ 4.0	6.4	1.6	4.8
403'C'+23	◄ 5.1	◄ 5.1	6.7	1.7	5.0
403'C'+50	◄ 5.1	◄ 5.1	6.7	1.7	5.0
404'C'+00	◄ 5.1	◄ 5.1	6.7	1.7	5.0
404'C'+15.75	◄ 5.1	◄ 5.1	6.7	1.7	5.0

SUPERELEVATION TABLE-CURVE 17

STATION	LEFT(%)	RIGHT(%)
599'E'+60	--	MATCH EXISTING
600'E'+00	--	◄ 4.0
600'E'+50	--	◄ 4.0
601'E'+00	--	◄ 1.5
601'E'+50	--	◄ 2.0
602'E'+00	--	◄ 2.7
602'E'+50	--	◄ 2.7
603'E'+00	--	◄ 3.4
603'E'+45	--	MATCH EXISTING

SUPERELEVATION TABLE-CURVE 18

P.E. - MAINTAIN NORMAL CROWN THROUGH CURVE 18

SUPERELEVATION TABLE-CURVE 19

P.E. - MAINTAIN NORMAL CROWN THROUGH CURVE 19

SUPERELEVATION TABLE-CURVE 20

P.E. - MAINTAIN NORMAL CROWN THROUGH CURVE 20

2

SOIL BORING DATA

BORING	STATION	OFFSET	DEPTH	SUBSURFACE DATA (ASCENDING ORDER)
1	303'B'+00	2' LT	12'	0.3' - EXISTING ASPHALT 1.7' - FILL, SILTY SAND, FINE TO MEDIUM GRAINED, A LITTLE GRAVEL, BROWN, MOIST, WITH COBBLES (SM) 2' - CLAYEY SAND, FINE TO MEDIUM GRAINED, BROWN, MOIST (SC) 8' - SAND WITH SILT, FINE GRAINED, YELLOWISH BROWN AND BROWN, MOIST (SP-SM)
2	57+00	5' RT	7'	0.3' - EXISTING ASPHALT 0.9' - FILL, SAND WITH SILT, FINE GRAINED, ORANGISH BROWN, MOIST (SP-SM) 1.3' - CLAYEY SAND, DARK BROWN, MOIST, WITH LENSES OF LEAN CLAY (SC) 4.5' - SAND, FINE GRAINED, BROWN AND YELLOWISH BROWN, MOIST (SP)
3	403'C'+00	0' LT	15'	0.7' - LEAN CLAY WITH ORGANICS, DARK BROWN (OL) 3.3' - LEAN CLAY, BROWN WITH TRACE ROOTS (CL) 2.5' - LEAN CLAY, BROWN (CL) 5.5' - SAND, FINE GRAINED, YELLOW TO BROWN, MOIST (SP) 2' - SAND, FINE TO MEDIUM GRAINED, BROWN, MOIST (SP)
4	86+00	7' LT	8'	0.3' - EXISTING ASPHALT 0.2' - FILL, GRAVELY SAND WITH SILT, FINE TO COARSE GRAINED, OLIVE BROWN, MOIST (SP-SM) 0.8' - FILL, SAND WITH SILT, FINE TO MEDIUM GRAINED, BROWN, MOIST (SP-SM) 2.7' - SILTY SAND, FINE GRAINED, BROWN, MOIST (SM) 3' - SAND, FINE GRAINED, YELLOWISH BROWN, MOIST (SP) 1.5' - SAND, FINE TO MEDIUM GRAINED, YELLOWISH BROWN, MOIST (SP)

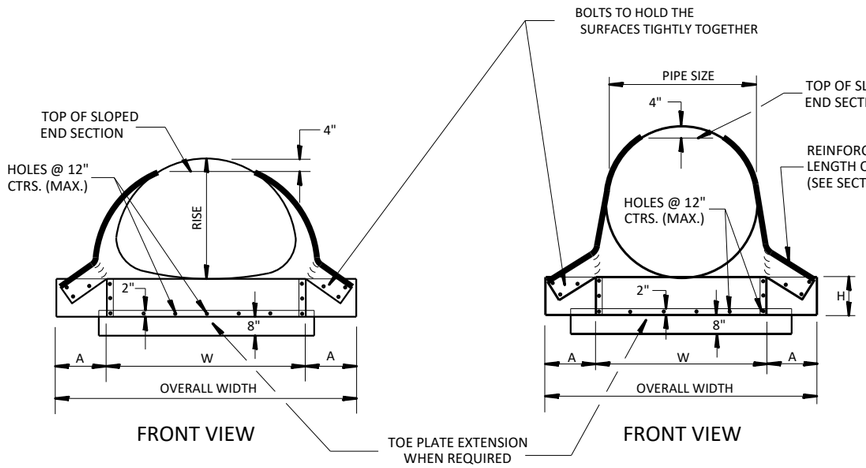
HILLSIDE ENBANKMENT CUTS

STATION	OFFSET	DEPTH	BEDROCK EXCAVATED (Y/N) - DEPTH
20+00	35' RT	6'	N - N/A
46+00	41' LT	8'	Y - 2'
78+00	36' RT	6'	Y - 3'
86+00	39' LT	10'	Y - 2'

CULVERT LAYOUT TABLE

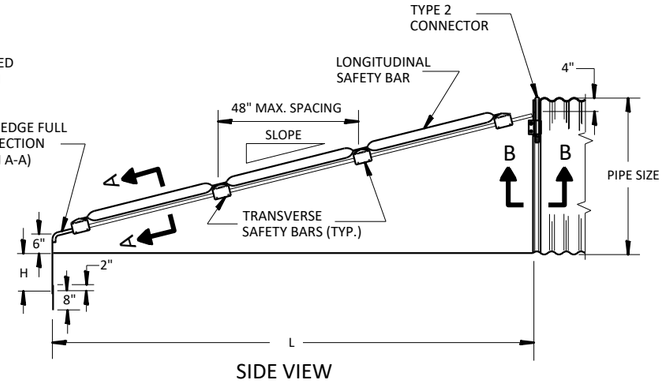
STATION	LOCATION	UPSTREAM				DOWNSTREAM			
		STATION	OFFSET	Y	X	STATION	OFFSET	Y	X
11+11	MAINLINE	11+13.78	23.86'	394,893.52	698,815.96	11+08.45	-25.85'	394,843.86	698,821.78
17+56	MAINLINE	17+56.69	40.00'	394,903.31	698,172.93	17+55.52	-50.00'	394,813.33	698,174.98
25+81	MAINLINE	25+80.50	27.00'	394,878.92	697,349.20	25+80.47	-29.00'	394,822.92	697,350.03
25+89	MAINLINE	25+88.83	27.00'	394,878.80	697,340.87	25+88.80	-29.00'	394,822.80	697,341.70
25+97	MAINLINE	25+97.16	27.00'	394,878.68	697,332.54	25+97.14	-29.00'	394,822.69	697,333.37
34+50	MAINLINE	34+61.82	-29.46'	395,103.70	696,546.07	34+35.10	30.93'	395,108.41	696,611.90
48+38	MAINLINE	48+40.21	-36.94'	396,486.30	696,459.75	48+35.00	50.91'	396,483.02	696,547.69
64+50	MAINLINE	64+52.07	-29.95'	398,098.15	696,441.38	64+48.28	35.94'	398,095.69	696,507.34
69+64	MAINLINE	69+75.02	-24.85'	398,623.56	696,431.67	69+50.62	27.83'	398,595.89	696,482.65
69+72	MAINLINE	69+82.43	-24.85'	398,631.30	696,432.43	69+58.87	28.21'	398,603.64	696,483.40
69+80	MAINLINE	69+90.19	-24.85'	398,639.02	696,433.24	69+67.10	28.52'	398,611.35	696,484.21
74+67	MAINLINE	74+68.77	-21.97'	399,112.77	696,435.06	74+65.60	31.95'	399,112.86	696,489.06
82+89	MAINLINE	82+87.57	-28.94'	399,891.41	696,209.97	82+91.82	36.92'	399,914.46	696,271.81
91+88	MAINLINE	91+90.85	-34.88'	400,568.09	695,660.70	91+85.02	34.88'	400,614.13	695,713.43
100+56	MAINLINE	100+54.32	-23.96'	401,379.47	695,423.97	100+57.37	29.95'	401,382.97	695,477.86
100+65	MAINLINE	100+64.09	-23.96'	401,389.24	695,423.89	100+67.36	33.95'	401,392.99	695,481.77
100+75	MAINLINE	100+73.85	-23.96'	401,399.00	695,423.81	100+77.36	37.94'	401,403.02	695,485.68
104+53	MAINLINE	104+52.98	-24.00'	401,778.13	695,420.66	104+52.57	30.00'	401,778.16	695,474.66
200'A'+80	GOLIATH RD	200'A'+75.65	-34.70'	394,785.72	697,043.05	200'A'+84.63	38.70'	394,798.15	697,116.00
403'C'+85	FLAGSHIP AVE	403'C'+85.28	34.00'	398,381.34	696,410.11	403'C'+86.25	-54.00'	398,469.13	696,416.15

2



FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

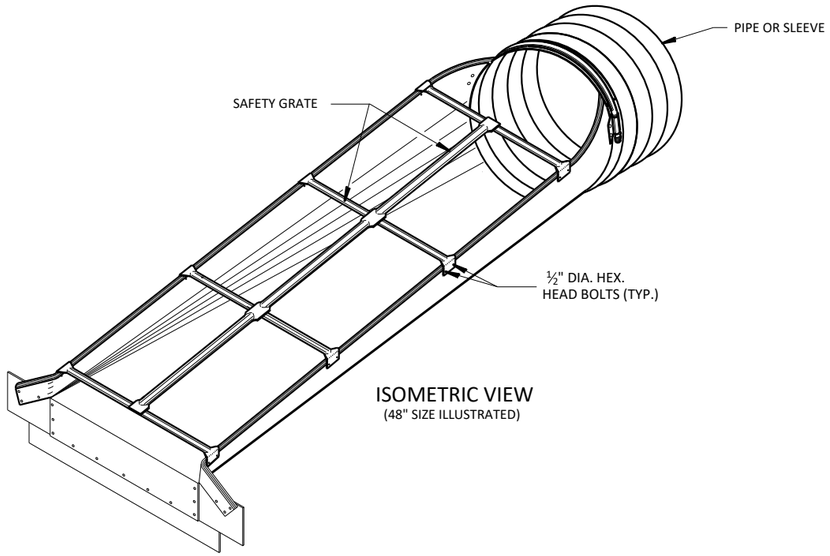
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

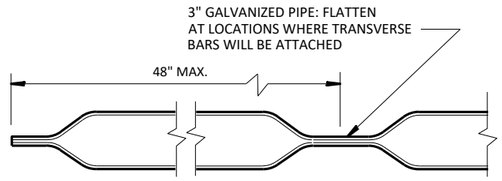
THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

2

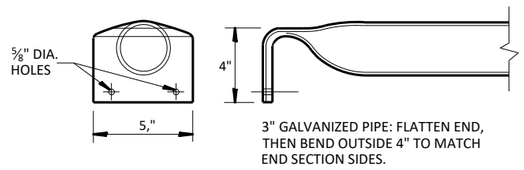


ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)

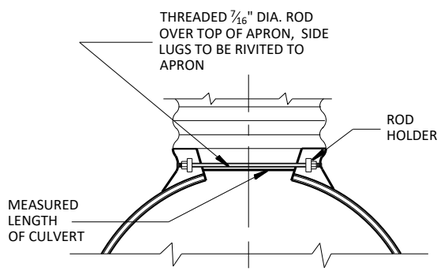


LONGITUDINAL SAFETY BAR

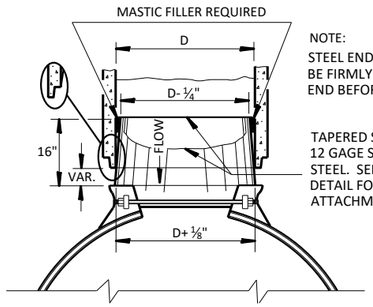
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS												
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
72	83	57	.109	12	16	12	89	121	4:1	188	6:1	282



TRANSVERSE SAFETY BAR



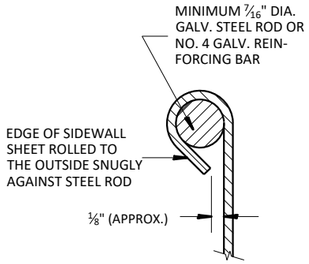
TYPE 2 CONNECTOR DETAIL



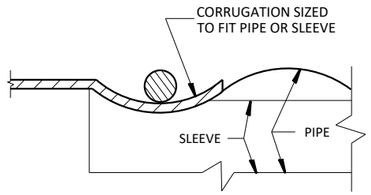
NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



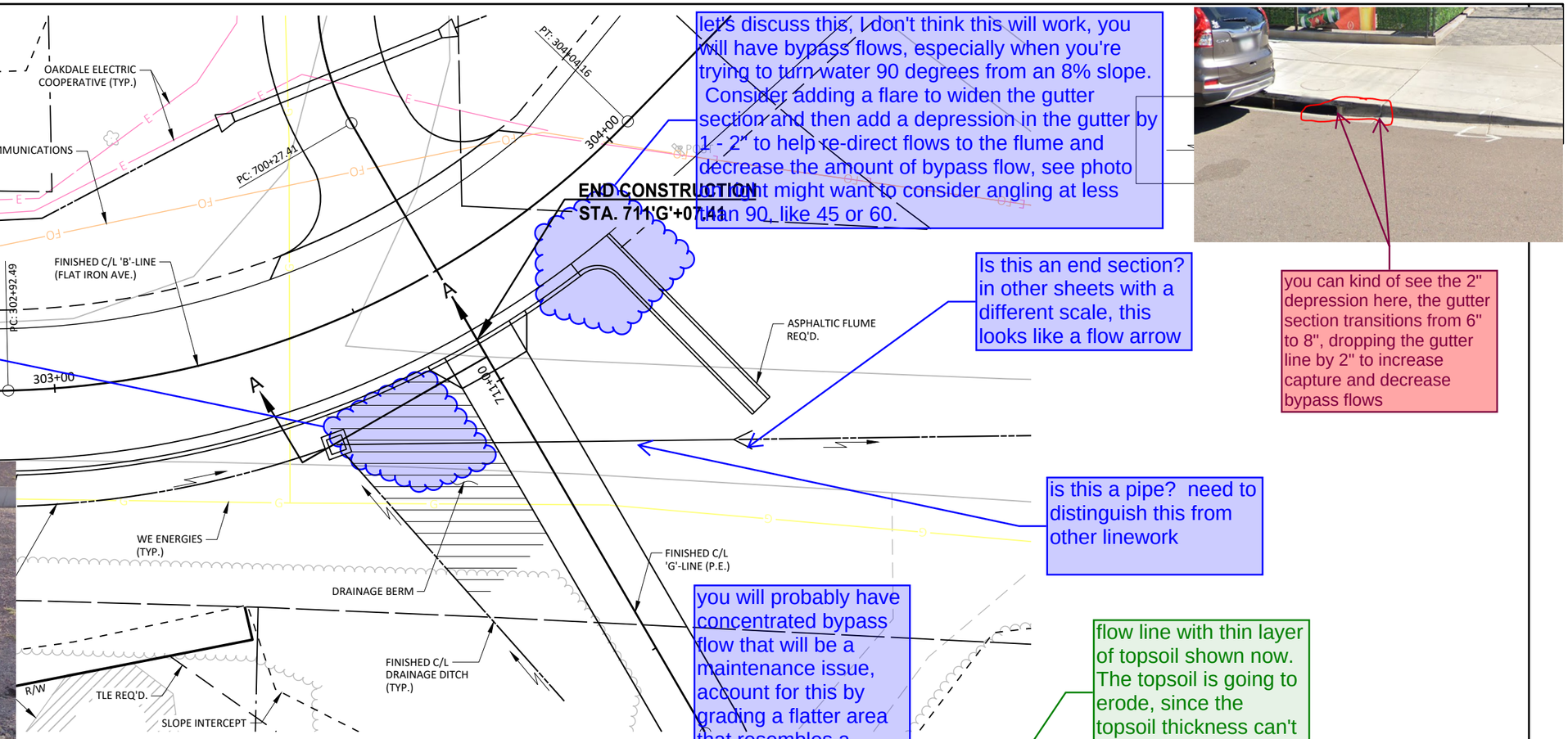
SECTION A-A



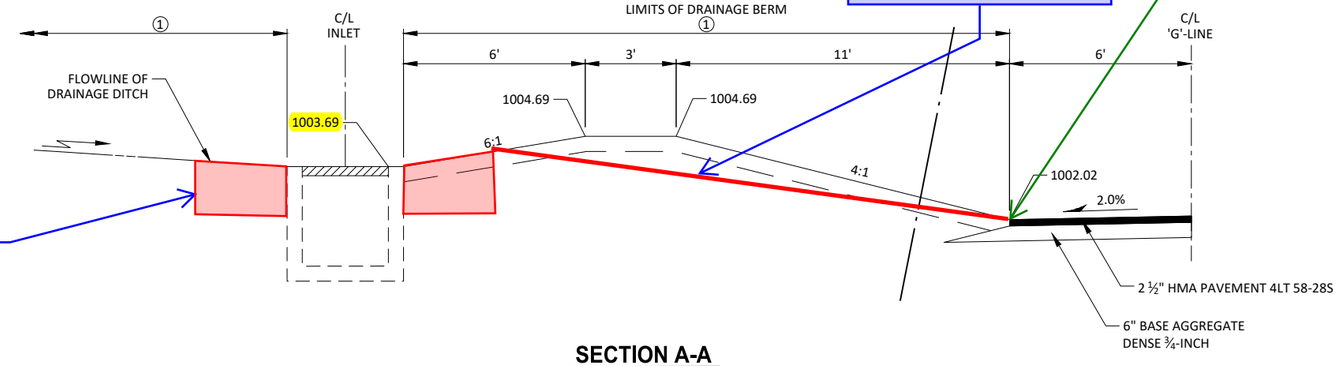
SECTION B-B

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS - APRON ENDWALLS FOR SLOPED CROSS DRAINS	SHEET	E

2



DRAINAGE BERM 'G'-LINE



SECTION A-A

① LIMITS OF SEEDING MIXTURE NO. 20, FERTILIZER TYPE B, MULCHING, AND SALVAGED TOPSOIL (AS DIRECTED BY ENGINEER)

was bypass flow taken into account? the drainage berm will probably create a maintenance issue.

let's discuss this, I don't think this will work, you will have bypass flows, especially when you're trying to turn water 90 degrees from an 8% slope. Consider adding a flare to widen the gutter section and then add a depression in the gutter by 1 - 2" to help re-direct flows to the flume and decrease the amount of bypass flow, see photo you might want to consider angling at less than 90, like 45 or 60.

you can kind of see the 2" depression here, the gutter section transitions from 6" to 8", dropping the gutter line by 2" to increase capture and decrease bypass flows

Is this an end section? in other sheets with a different scale, this looks like a flow arrow

is this a pipe? need to distinguish this from other linework

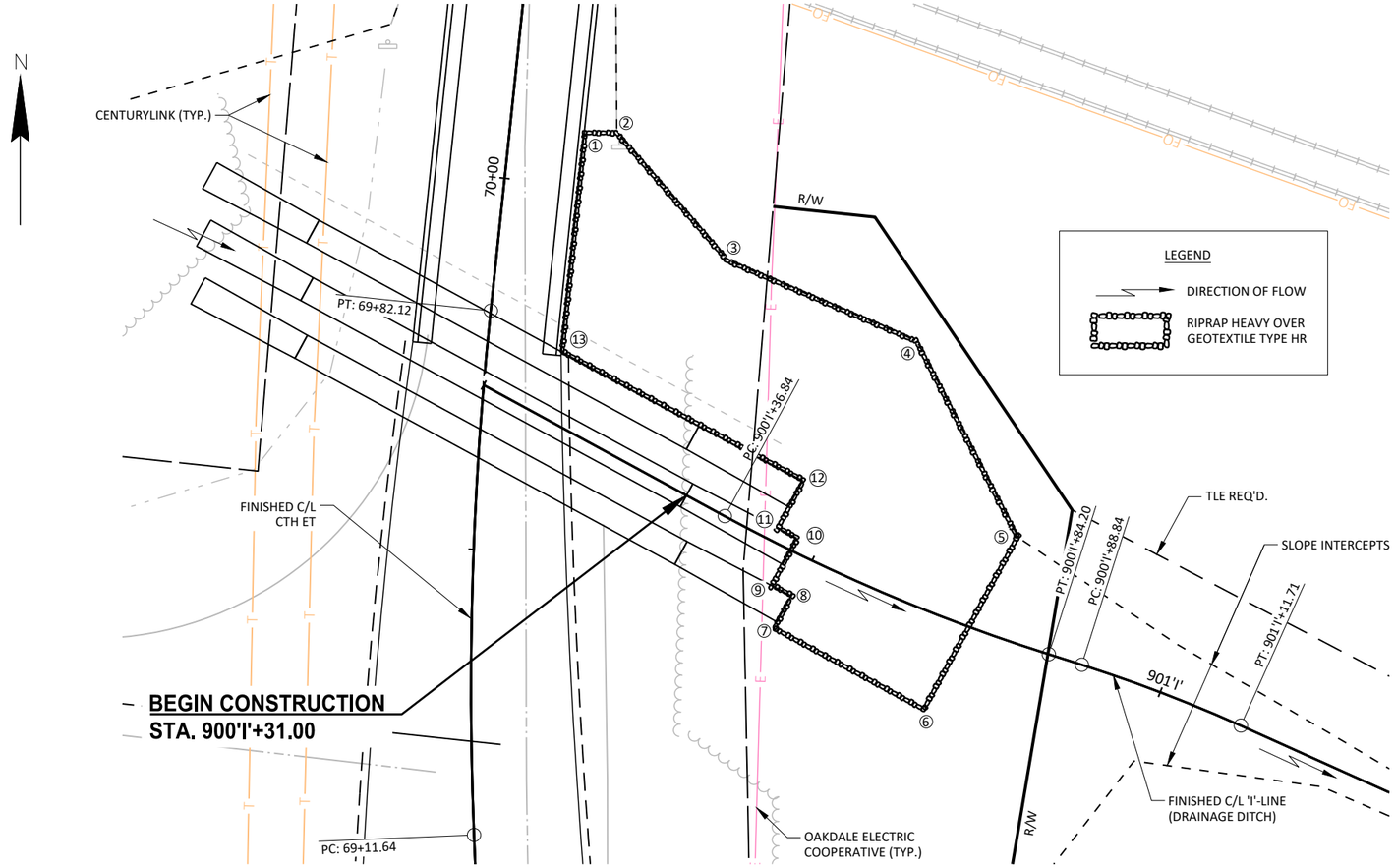
you will probably have concentrated bypass flow that will be a maintenance issue, account for this by grading a flatter area that resembles a swale so you can direct the bypass flow to the gutter line and then out the asphalt flume

flow line with thin layer of topsoil shown now. The topsoil is going to erode, since the topsoil thickness can't support seed growth.

the proposed roadway is on an 8% slope, do you have calcs for the ditch? There is going to be bypass flow, especially if a 50% clogging factor was used for the inlet, creating a maintenance issue with the berm. Instead of the drainage berm, consider a concrete apron or riprap around the inlet and eliminate the drainage berm if rates are > 6 fps entering the inlet, see screenshot above (ADOT area drain detail)

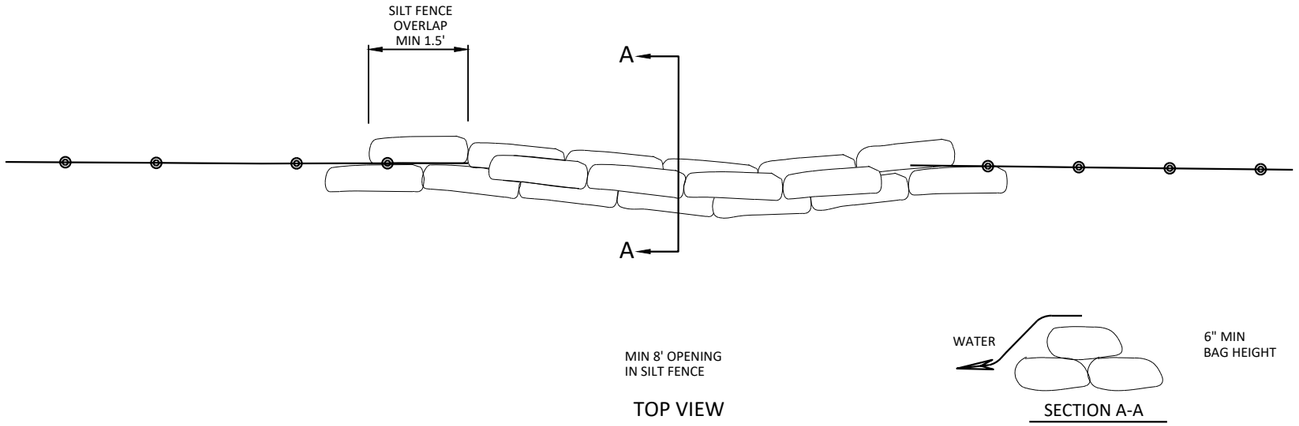
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS - DRAINAGE BERM	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_CONSTRUCTION DETAILS.DWG PLOT DATE : 9/15/2020 1:26:20 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : 'G'-LINE BERM



RIPRAP LAYOUT 'I'-LINE

POINT	STATION / OFFSET	NORTHING	EASTING
①	STA. 70+07.27, 10.0' RT.	398,652.37	696,469.69
②	STA. 70+07.73, 14.33' RT.	398,652.38	696,474.03
③	STA. 69+92.17, 31.02' RT.	398,635.16	696,489.01
④	STA. 69+84.05, 57.33' RT.	398,624.34	696,514.33
⑤	STA. 69+55.20, 72.95' RT.	398,597.99	696,527.91
⑥	STA. 69+27.94, 60.82' RT.	398,574.76	696,515.30
⑦	STA. 69+40.09, 40.52' RT.	398,585.74	696,495.06
⑧	STA. 69+44.96, 42.81' RT.	398,590.14	696,497.44
⑨	STA. 69+46.40, 40.08' RT.	398,591.54	696,494.76
⑩	STA. 69+53.48, 43.28' RT.	398,597.88	696,498.20
⑪	STA. 69+54.85, 40.59' RT.	398,599.25	696,495.57
⑫	STA. 69+61.99, 43.67' RT.	398,605.59	696,499.01
⑬	STA. 69+77.54, 10.0' RT.	398,622.90	696,466.61



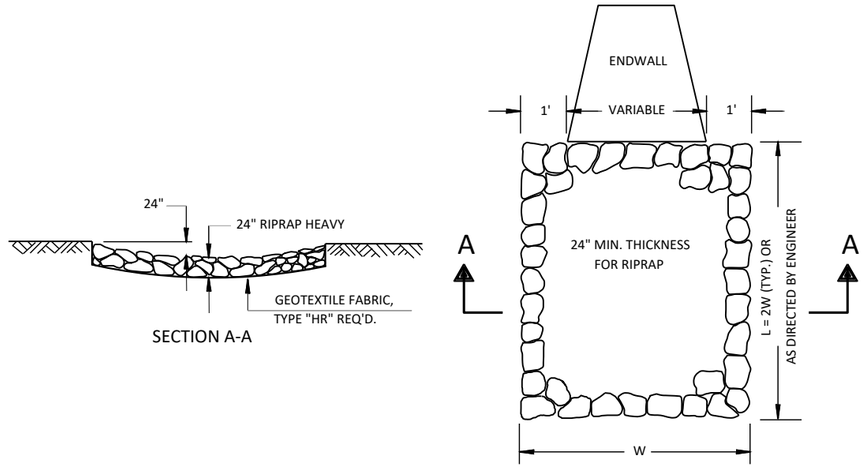
TOP VIEW

SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF

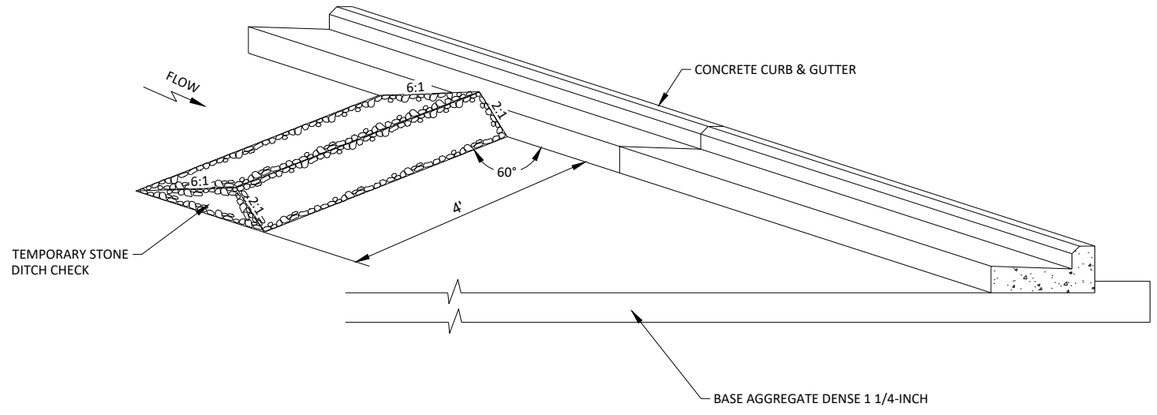
(ROCK BAGS INCIDENTAL TO SILT FENCE BID ITEM)

NOTE: LOCATION AND NUMBER OF ROCK BAGS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



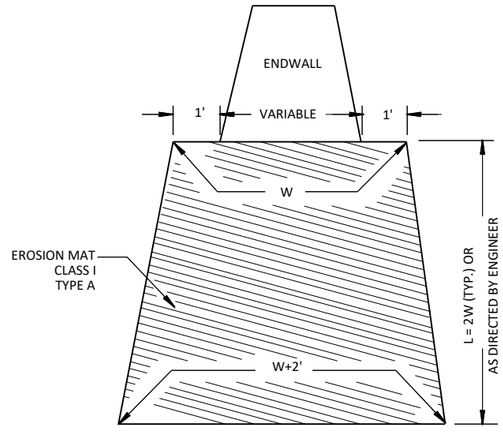
SECTION A-A

RIPRAP HEAVY TREATMENT AT CULVERTS



TEMPORARY STONE DITCH CHECKS

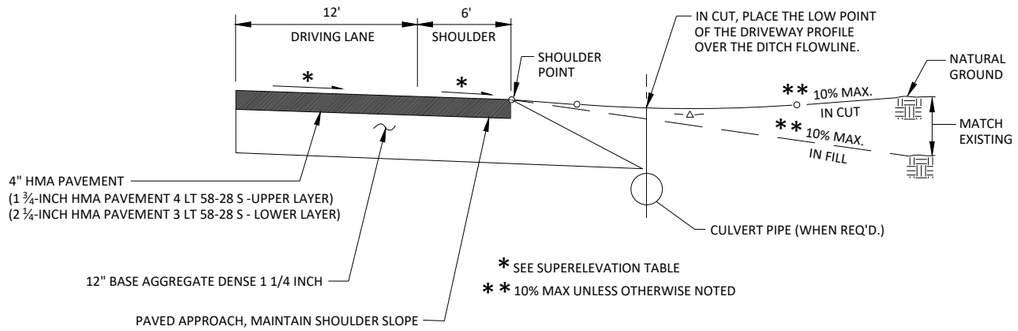
(SEE MISCELLANEOUS QUANTITIES SHEET FOR LOCATION)



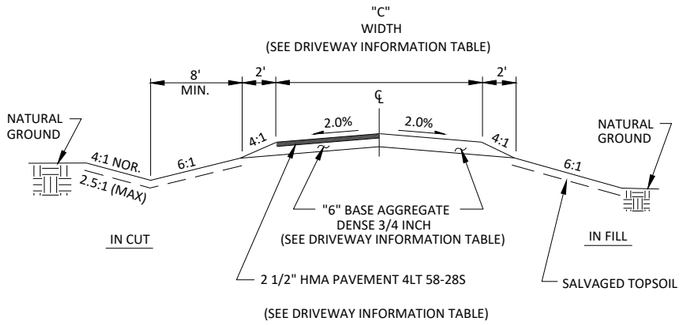
EROSION MAT CLASS I TYPE B TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN
SHEET FOR LOCATION AND DIMENSIONS

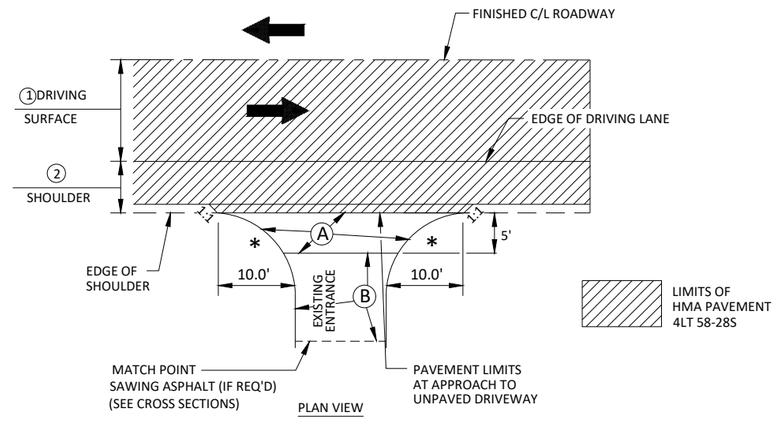
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS - EROSION CONTROL	SHEET	E



TYPICAL RURAL ENTRANCE PROFILES



TYPICAL CROSS-SECTION FOR RURAL ENTRANCE



* RADIUS = 10'

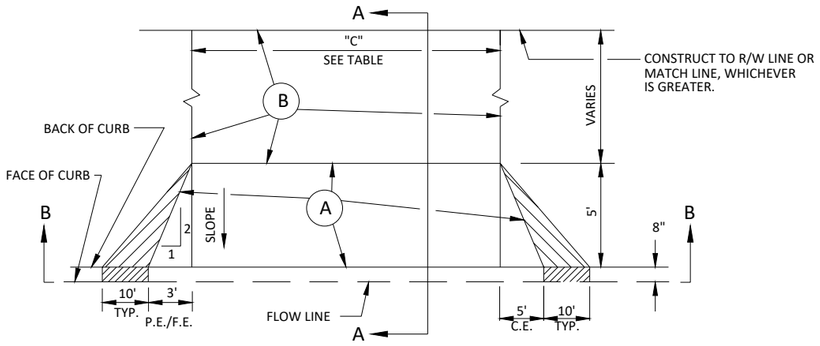
RURAL ENTRANCE DETAIL

ROADWAY	①	②
CTH ET	12'	6' (5' PAVED)
'B'-LINE (FLAT IRON AVE.)	10'	3' (0' PAVED)

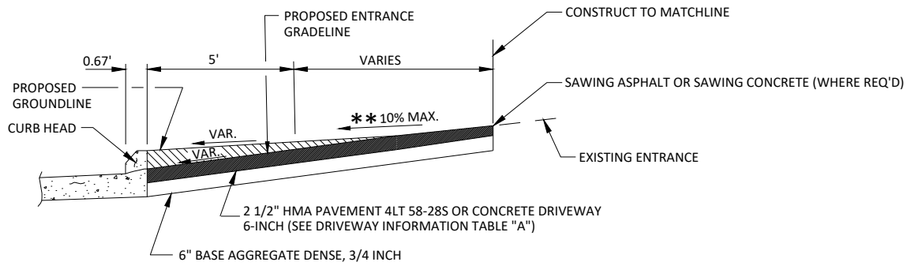
RURAL DRIVEWAY INFORMATION TABLE

ENTRANCE TYPE	STATION	TYPE	EXISTING PAVEMENT STRUCTURE	PROPOSED PAVEMENT STRUCTURE A	PROPOSED PAVEMENT STRUCTURE B	"C" WIDTH
RURAL	19+04, LT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20
RURAL	41+83, 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
RURAL	42+49, LT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	14
RURAL	45+17, RT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	18
RURAL	53+25, RT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	16
RURAL	54+11, LT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20
RURAL	54+99, RT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	18
RURAL	59+00, LT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20
RURAL	62+50, RT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20
RURAL	76+74, RT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20
RURAL	81+50, RT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	14
RURAL	81+54, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	22
RURAL	82+50, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	16
RURAL	92+34, LT.	P.E.	CONCRETE	CONCRETE DRIVEWAY 6-INCH OVER 6" B.A.D.	CONCRETE DRIVEWAY 6-INCH OVER 6" B.A.D.	10
RURAL	95+00, LT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	20
RURAL	100+92, LT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	12
RURAL	101+16, 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
RURAL	101+82, 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
RURAL	103+79, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10
RURAL	106+98, LT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	16
RURAL	303'B'+65, LT. ('F'-LINE)	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	18

2

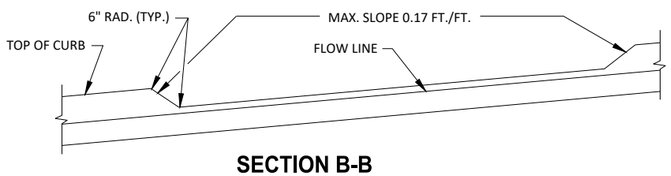


URBAN DRIVEWAY DETAIL



** 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
	CONCRETE	6" PROPOSED CONCRETE DRIVEWAY 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	11+90, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	14
URBAN	13+96, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	10
URBAN	14+50, RT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	54
URBAN	15+83, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	12
URBAN	17+87, RT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	24
URBAN	56+59, RT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	24
URBAN	66+38, RT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	18
URBAN	71+29, RT.	F.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	24
URBAN	113+28, LT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	14
URBAN	113+49, RT.	P.E.	B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	8 1/2" B.A.D.	12
URBAN	300'B'+35, RT.	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	24
URBAN	302'B'+20, RT.	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	303'B'+65, RT. ('G'-LINE)	P.E.	ASPHALT	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	2 1/2" HMA PAVEMENT OVER 6" B.A.D.	12

2

2

2

N

THOMAS H.
ZASTOUPIL

R/W

STA. 28+55.22 (CTH ET) =
STA. 201'A'+36.35 ('A'-LINE (GOLIATH ROAD))
TYPE C INTERSECTION REQ'D.

CHARTER COMMUNICATIONS
(TYP.)

CENTURYLINK
(TYP.)

OAKDALE ELECTRIC
COOPERATIVE (TYP.)

R/W

6' SHLDR
(5' PAVED)

FINISHED C/L CTH ET

88°7'38"

S89°10'49"W

12'
DRIVING
LANE

12'
DRIVING
LANE

CTH ET

31

30

29

28

27

26

EXISTING C/L CTH ET

17'

18'

STA. 29+41

15'

PC: 29+16.12

16.12

3'

R=50'

R/W

201'A'

N02°41'33"W

R=40'

3'

10'

STA. 27+88

18'

17'

6' SHLDR
(5' PAVED)

WE ENERGIES

801'H'

P.L.

15'

15'

10:1

10:1

GOLIATH ROAD

200'A'

SLOPE INTERCEPT
(TYP.)

R/W

STA. 27+98.29 58.0' LT (CTH ET) =
STA. 200'A'+76.52 55.0' RT ('A'-LINE (GOLIATH ROAD))
Y = 394,790.81
X = 697,132.65

STA. 29+26.10 78.0' LT (CTH ET) =
STA. 200+60.88 75.0' LT ('A'-LINE (GOLIATH ROAD))
Y = 394,769.09
X = 697,003.54

FINISHED C/L 'A'-LINE (GOLIATH ROAD)

FINISHED C/L 'H'-LINE
(DRAINAGE DITCH)

P.L.

JOHN J.
DA SILVA

TODD L.
GAVINSKI

TODD L.
GAVINSKI

THOMAS H.
ZASTOUPIL

EXISTING C/L 'A'-LINE (GOLIATH ROAD)

REMOVING SMALL PIPE CULVERTS
STA. 201'A'+11
REMOVE 18" CMP

STA. 200'A'+80
(1) CULVERT PIPE CLASS-III A 24-INCH
(2) APRON ENDWALLS CULVERT PIPE
24-INCH REQ'D.

LEGEND

- DIRECTION OF TRAVEL
- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT

① 9' DRIVING LANE

② VARIES 0'-2' SHOULDERS (0' PAVED)

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\INTERSECTION DETAILS.DWG
PLOT DATE : 9/15/2020 1:26:42 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : A LINE

2

LEGEND

DIRECTION OF TRAVEL

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

N

THOMAS H. ZASTOUPIL

EXISTING TRANSFORMERS & CONCRETE BASE TO REMAIN

EXISTING LIGHT POLE TO REMAIN

CURVE 14
PI STA. = 303'B'+51.30
Y = 394,864.70
X = 696,551.07
R = 144.00
D = 39°47'19"
DELTA = 44°25'49"
L = 111.67
T = 58.81
C = 108.89
PC STA. = 302'B'+92.49
Y = 394,863.39
X = 696,492.27
PT STA. = 304'B'+04.16
Y = 394,906.79
X = 696,592.14
SE = SEE SUPERELEVATION TABLE
RO = SEE SUPERELEVATION TABLE
SE TRANS = SEE SUPERELEVATION TABLE

XXXXXXXXX

HOUSE

STA. 33+62.80 78.0' LT (CTH ET) =
STA. 304'B'+40.35 75.0' LT ('B'-LINE (FLAT IRON AVE))
Y = 394,985.06
X = 696,563.73

FINISHED C/L 'F'-LINE (P.E.)

LARRY A. PITEL

STA. 303'B'+65, LT. CONSTRUCT P.E. (ASPHALT)

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J REQ'D.

FINISHED C/L DRAINAGE DITCH (TYP.)

OAKDALE ELECTRIC COOPERATIVE

R/W

CENTURYLINK

FINISHED C/L 'B'-LINE (FLAT IRON AVE)

302'B'

N88°43'28"E

303'B'

FLAT IRON AVE

PC: 302+92.49

1'

SHLDR

3'

CURVE 14

PT: 304+04.16

10:1

10:1

10:304'B'

11.17'

R/W

POST

35

FINISHED C/L CTH ET

CTH ET

34

STA. 33+78

17'

18'

15'

90°0'0"

R=60'

3'

305'B'

N44°17'39"E

15'

15'

3'

R=40'

18'

17'

10'

SLOPE INTERCEPT (TYP.)

STA. 32+98.00 (CTH ET) =
STA. 305'B'+13.32 ('B'-LINE (FLAT IRON AVE))
TYPE C INTERSECTION REQ'D.

33

32

STA. 32+39

ASPHALTIC FLUME REQ'D.

STA. 32+48.79 58.0' LT (CTH ET) =
STA. 304'B'+58.11 55.0' RT ('B'-LINE (FLAT IRON AVE))
Y = 394,907.00
X = 696,669.18

FINISHED C/L DRAINAGE DITCH (TYP.)

FINISHED C/L 'G'-LINE (P.E.)

STA. 303'B'+65, RT. CONSTRUCT P.E. (ASPHALT)

STA. 300'B'+00 - STA. 303'B'+83, RT. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J REQ'D.

THOMAS H. ZASTOUPIL

OAKDALE ELECTRIC COOPERATIVE (TYP.)

CHARTER COMMUNICATIONS (TYP.)

CENTURYLINK (TYP.)

6' SHLDR (5' PAVED)

12' DRIVING LANE

12' DRIVING LANE

31

6' SHLDR (5' PAVED)

EXISTING C/L CTH ET

30

WE ENERGIES (TYP.)

JOHN J. DA SILVA

TODD L. GAVINSKI

DAWN M. BURKHALTER

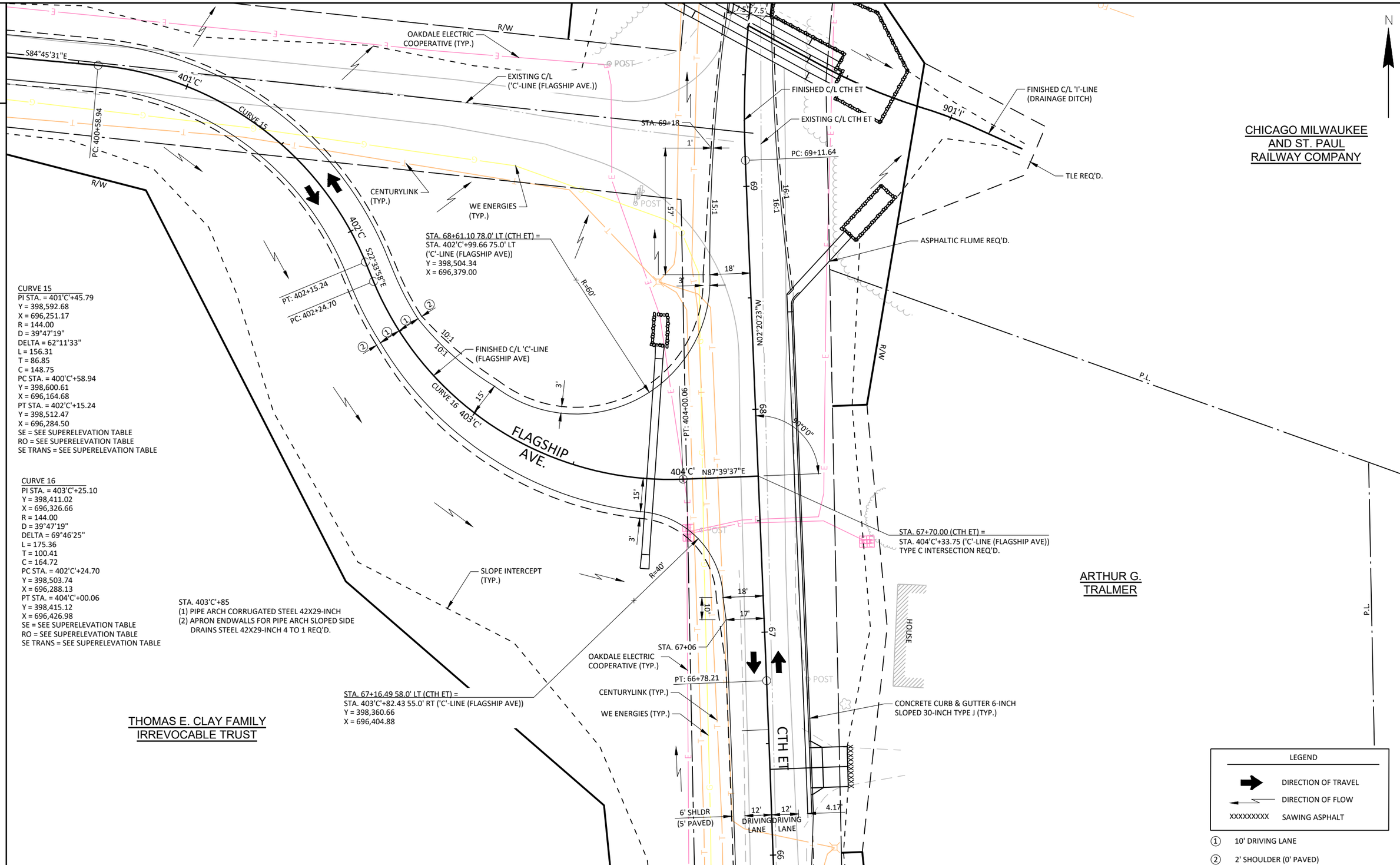
R/W

STA. 302'B'+20, RT. CONSTRUCT P.E. (ASPHALT)

BEVERLY J. BURKHALTER

EXISTING SEPTIC FIELD TO REMAIN

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET	E



CURVE 15
PI STA. = 401'C'+45.79
Y = 398,592.68
X = 696,251.17
R = 144.00
D = 39°47'19"
DELTA = 62°11'33"
L = 156.31
T = 86.85
C = 148.75
PC STA. = 400'C'+58.94
Y = 398,600.61
X = 696,164.68
PT STA. = 402'C'+15.24
Y = 398,512.47
X = 696,284.50
SE = SEE SUPERELEVATION TABLE
RO = SEE SUPERELEVATION TABLE
SE TRANS = SEE SUPERELEVATION TABLE

CURVE 16
PI STA. = 403'C'+25.10
Y = 398,411.02
X = 696,326.66
R = 144.00
D = 39°47'19"
DELTA = 69°46'25"
L = 175.36
T = 100.41
C = 164.72
PC STA. = 402'C'+24.70
Y = 398,503.74
X = 696,288.13
PT STA. = 404'C'+00.06
Y = 398,415.12
X = 696,426.98
SE = SEE SUPERELEVATION TABLE
RO = SEE SUPERELEVATION TABLE
SE TRANS = SEE SUPERELEVATION TABLE

STA. 403'C'+85
(1) PIPE ARCH CORRUGATED STEEL 42X29-INCH
(2) APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 42X29-INCH 4 TO 1 REQ'D.

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\INTERSECTION DETAILS.DWG PLOT DATE : 9/15/2020 1:26:46 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : C LINE

2

2

JAMES C.
PRESTWICH

KEVIN L.
RITTER

THOMAS E.
BAILEY

THOMAS E.
BAILEY

N

R/W

SLOPE INTERCEPT
(TYP.)

ALLIANT ENERGY
(TYP.)

FINISHED C/L
CTH ET

STA. 101+91

STA. 101+81.18 68.0' RT (CTH ET) =
STA. 500'D'+66.81 65.0' LT ('D'-LINE (FLARE AVE))
Y = 401,507.08
X = 695,514.89

WETLAND DETERMINATION
(TYP.)

STA. 101+17.42 (CTH ET) =
STA. 500'D'+00.00 ('D'-LINE (FLARE AVE))
TYPE C INTERSECTION REQ'D.

EXISTING C/L 'D'-LINE
(FLARE AVE)

CENTURYLINK
(TYP.)

S89°24'39"E

501'D'

91°33'36"

N00°28'14"W

FINISHED C/L 'D'-LINE
(FLARE AVE)

STA. 100+31

STA. 100+46.06 73.0' RT (CTH ET) =
STA. 500'D'+74.31 70.0' RT ('D'-LINE (FLARE AVE))
Y = 401,372.01
X = 695,521.00

OAKDALE ELECTRIC
COOPERATIVE (TYP.)

CENTURYLINK
(TYP.)

103
102
101
100

17'
18'
10'
3'
15'
33'
R=50'
R=55'

LEGEND

DIRECTION OF TRAVEL

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

① 10' DRIVING LANE

② 3' SHOULDER (0' PAVED)

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\INTERSECTION DETAILS.DWG PLOT DATE : 9/15/2020 1:26:48 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : D LINE

2

CURVE 17
PI STA. = 601'E'+73.34
Y = 402,864.41
X = 695,400.53
R = 2750.00
D = 2°05'01"
DELTA = 7°36'51"
L = 365.45
T = 183.00
C = 365.18
PC STA. = 599'E'+90.34
Y = 402,840.04
X = 695,219.16
PT STA. = 55.79'E'+55.79
Y = 402,912.60
X = 695,577.06
SE = SEE SUPERELEVATION TABLE
RO = SEE SUPERELEVATION TABLE
SE TRANS = SEE SUPERELEVATION TABLE

This is supposed to be 15* shoulder width - shown as 10' so 150' and the other side is 10* shoulder width which would be 100.

N

END CONSTRUCTION
STA. 603'E'+45
Y=402,909.78
X=695,566.64

BEGIN CONSTRUCTION
STA. 599'E'+60
Y=402,836.00
X=695,189.09

EXISTING C/L 'E'-LINE (STH 21)

PC: 599+90.34

FINISHED C/L 'E'-LINE (STH 21)

600'E'

601'E'

602'E'

603'E'

CURVE 17

98°24'56"

STA. 115+49.18 (CTH ET) =
STA. 601'E'+90.27 ('E'-LINE (STH 21))
TYPE D INTERSECTION (MOD.) REQ'D.

WE ENERGIES (TYP.)

STA. 603+19

74'

1' DRIVING LANE

10' SHLDR (3' PAVED)

15'

14'

12'

10'

STA. 600+18

91'

115

16.17'

10'

R=50'

R=55'

~AGRICULTURAL FIELD~

LIMITS OF CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

TIMOTHY E. LIDDANE REVOCABLE TRUST

STA. 114+86.76 66.17' RT (CTH ET) =
STA. 602'E'+45.15 72.0' RT ('E'-LINE (STH 21))
Y = 402,815.45
X = 695,485.92

STA. 114+77 - STA. 115+36, RT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 36-INCH TYPE D REQ'D.

TIMOTHY E. LIDDANE REVOCABLE TRUST

R/W

P.L.

ALLIANT ENERGY (TYP.)

STA. 114+62.05 71.17' LT (CTH ET) =
STA. 601+09.37 77.0' RT ('E'-LINE (STH 21))
Y = 402,782.64
X = 695,350.29

SLOPE INTERCEPT (TYP.)

EXISTING SATELLITE DISH TO REMAIN

STA. 114+52 - STA. 115+17, LT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 36-INCH TYPE D

RICHARD A. YARRINGTON

HOUSE

114

N03°24'14"W

CAROLEE LINENBERG

STA. 111+35 - STA. 114+52, LT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J REQ'D.

STA. 111+35 - STA. 114+77, RT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J REQ'D.

EXISTING C/L CTH ET

CENTURYLINK (TYP.)

ALLIANT ENERGY (TYP.)

OAKDALE ELECTRIC COOPERATIVE (TYP.)

STA. 113+30

STA. 113+28, LT.
CONSTRUCT P.E. (B.A.D.)

STA. 113+49, RT.
CONSTRUCT P.E. (B.A.D.)

16.17'

STA. 113+18

FINISHED C/L CTH ET

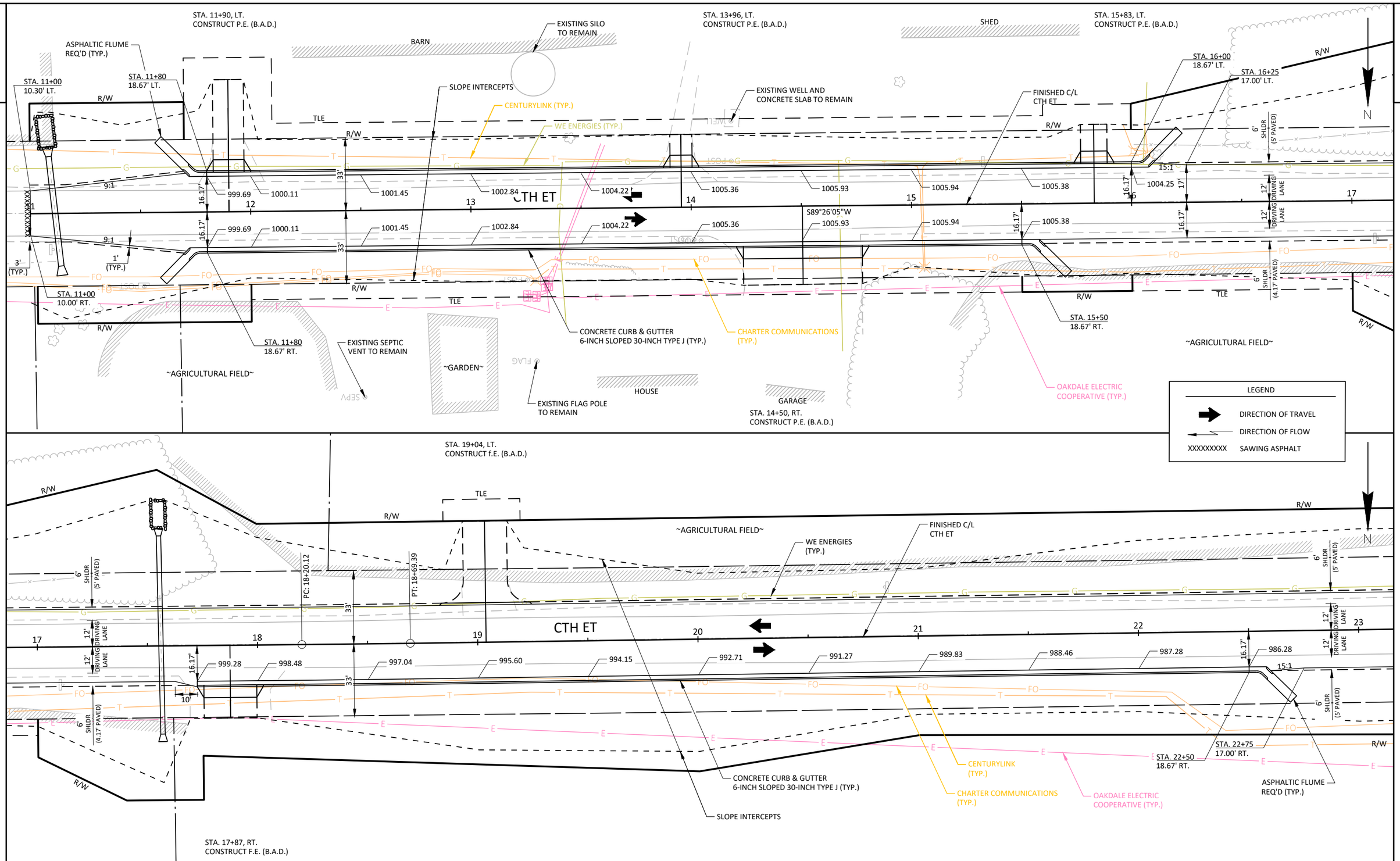
113

CHICAGO AND NORTH WESTERN RAILWAY

LEGEND
DIRECTION OF TRAVEL
DIRECTION OF FLOW
XXXXXXXXX SAWING ASPHALT

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	INTERSECTION DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\INTERSECTION DETAILS.DWG
PLOT DATE : 9/15/2020 1:26:51 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : STH 21



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PAVING DETAILS.DWG PLOT DATE : 9/15/2020 1:27:12 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 1

2

2

N

ASPHALTIC FLUME REQ'D (TYP.)

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J (TYP.)

FINISHED C/L CTH ET

STA. 47+75 17.00' LT.

STA. 47+50 18.67' LT.

WE ENERGIES (TYP.)

STA. 44+25 17.00' LT.

STA. 44+50 18.67' LT.

R/W

CENTURYLINK (TYP.)

6' SHLDR (5' PAVED)

12' DRIVING LANE

15:1

16.17'

33'

1026.67

1028.20

1029.62

1030.94

1032.24

1033.54

1034.84

43 44 45 46 47 48 49

N01°15'12"W

CTH ET

OAKDALE ELECTRIC COOPERATIVE (TYP.)

SLOPE INTERCEPTS

LEGEND

DIRECTION OF TRAVEL

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

STA. 45+17, RT.
CONSTRUCT F.E. (B.A.D.)

STA. 59+00, LT.
CONSTRUCT F.E. (B.A.D.)

OAKDALE ELECTRIC COOPERATIVE (TYP.)

FINISHED C/L CTH ET

WE ENERGIES (TYP.)

CENTURYLINK (TYP.)

PC: 60+17.83

PT: 60+99.36

55 56 57 58 59 60 61

N00°40'04"W

1046.59

1046.33

1044.84

1043.05

1040.98

1038.60

1035.94

1032.98

STA. 56+15 17.00' RT.

STA. 56+40 18.67' RT.

STA. 59+75 17.00' RT.

STA. 59+50 18.67' RT.

CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J (TYP.)

ASPHALTIC FLUME REQ'D (TYP.)

STA. 56+59, RT.
CONSTRUCT P.E. (B.A.D.)

TRAILER

GARAGE

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET	E

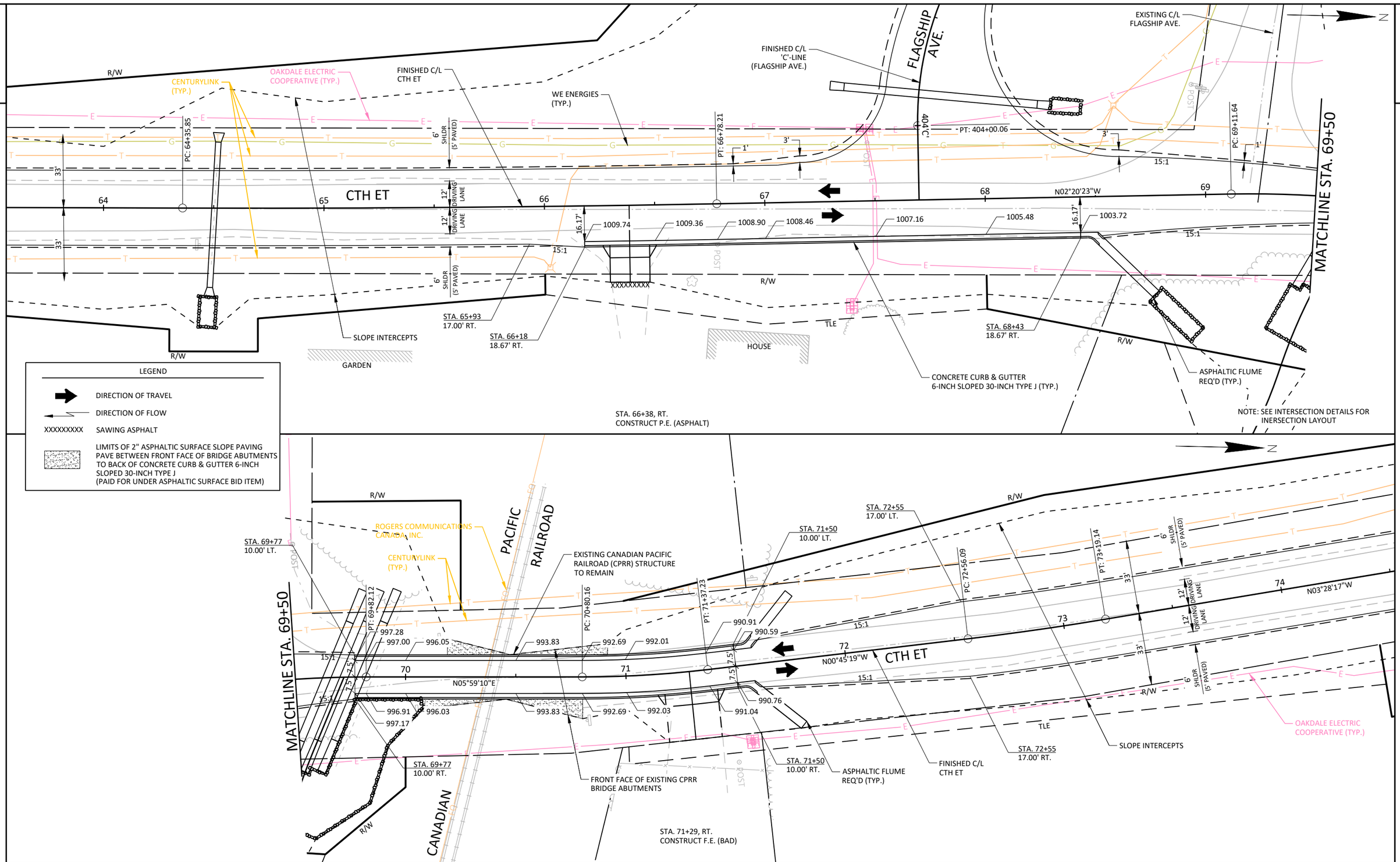
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PAVING DETAILS.DWG

PLOT DATE : 9/15/2020 1:27:16 PM

PLOT BY : JONAH DRAKE

PLOT SCALE : 1" = 1'

LAYOUT : LAYOUT 2



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PAVING DETAILS.DWG PLOT DATE : 9/15/2020 1:27:19 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 3

2

R/W

CENTURYLINK (TYP.)

PC: 75+24.71

33'

75

76

77

78

79

80

81

R/W

TLE

6' SHLDR (5' PAVED)

12' DRIVING LANE

PT: 77+24.13

PC: 78+20.15

PT: 79+24.29

CTH ET

N21°14'29"W

16.17'

15:1

990.96

991.35

991.50

991.67

992.08

992.35

992.58

STA. 77+50
18.67' RT.

STA. 77+25
17.00' RT.

STA. 79+75
17.00' RT.

STA. 79+50
18.67' RT.

FINISHED C/L
CTH ET

STA. 76+74, RT.
CONSTRUCT F.E. (B.A.D.)

OAKDALE ELECTRIC COOPERATIVE (TYP.)

ASPHALTIC FLUME REQ'D (TYP.)

SLOPE INTERCEPTS

CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J (TYP.)

EXISTING SEPTIC
TO REMAIN

SEPTIC

LEGEND

DIRECTION OF TRAVEL

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

STA. 84+25
17.00' LT.

ASPHALTIC FLUME REQ'D (TYP.)

STA. 84+50
18.67' LT.

PC: 83+90.18

84

85

86

87

88

89

992.94

993.56

994.22

994.88

995.86

995.75

996.67

997.10

997.44

997.69

CENTURYLINK (TYP.)

ALLIANT ENERGY (TYP.)

CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J (TYP.)

STA. 88+50
18.67' LT.

STA. 88+75
17.00' LT.

PT: 86+44.50

N45°53'52"W

SLOPE INTERCEPTS

OAKDALE ELECTRIC COOPERATIVE (TYP.)

FINISHED C/L
CTH ET

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PAVING DETAILS.DWG
PLOT DATE : 9/15/2020 1:27:23 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : LAYOUT 4

2

STA. 113+28, LT.
CONSTRUCT P.E. (B.A.D.)

PC: 599+90.54

~AGRICULTURAL FIELD~

ASPHALTIC FLUME
REQ'D (TYP.)

STA. 111+05
17.00' LT.

STA. 111+35
15.67' LT.

R/W

6' SHLDR (5' PAVED)

33'

12' DRIVING LANE

12' DRIVING LANE

33'

6' SHLDR (5' PAVED)

R/W

PC: 111+34.14

PT: 112+02.23

PACIFIC RAILROAD

OAKDALE ELECTRIC
COOPERATIVE (TYP.)

EXISTING UNION PACIFIC
RAILROAD (UPRR) STRUCTURE
TO REMAIN

STA. 112+85

STA. 113+18

TLE

WE ENERGIES
(TYP.)

R/W

STH 21

600'E

601'E

602'E

603'E

22'

14'

FINISHED C/L
'E'-LINE (STH 21)

ALLIANT ENERGY
(TYP.)

FINISHED C/L
CTH ET

10'

CTH ET

111

112

113

114

115

15:1

13.17'

16.17'

1001.63
1001.24
1001.30
1001.78
1003.01
1003.07
1004.53
1004.53
1005.68
1005.68
1006.16
1006.17
1006.76
1007.20
1007.94
1007.94
1009.86
1009.86
1011.80
1011.80
1011.88
1012.26
1012.83
1013.22

N03°24'14"W

STA. 111+35
15.67' RT.

STA. 111+05
17.00' RT.

CENTURYLINK
(TYP.)

CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J (TYP.)

FRONT FACE OF EXISTING
UPRR BRIDGE PIERS

UNION PACIFIC RAILROAD

TLE

STA. 112+85

STA. 113+30

HOUSE

SLOPE INTERCEPTS

R/W

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D (TYP.)

~AGRICULTURAL FIELD~

~AGRICULTURAL FIELD~

LEGEND

- DIRECTION OF TRAVEL
- DIRECTION OF FLOW
- XXXXXXXXX SAWING ASPHALT
- LIMITS OF SLOPE PAVING CRUSHED AGGREGATE REQ'D

STA. 113+49, RT.
CONSTRUCT P.E. (B.A.D.)

NOTE: SEE INTERSECTION DETAILS
FOR INTERSECTION LAYOUT

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PAVING DETAILS.DWG
PLOT DATE : 9/15/2020 1:27:25 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : LAYOUT 5

2

2

OAKDALE ELECTRIC COOPERATIVE (TYP.)

CHARTER COMMUNICATIONS (TYP.)

R/W

33'

33'

R/W

FLAT IRON AVE

WE ENERGIES (TYP.)

STA. 299'B'+90

FINISHED C/L 'B'-LINE (FLAT IRON AVE)

300'B'

301'B'

302'B'

303'B'

304'B'

305'B'

10'

11.17'

XXXXXXXXX

10'

1020.19

1019.95

1019.61

1017.75

1014.15

1010.49

1007.37

1006.81

1003.01

1000.55

PC: 302+92.49

PT: 304+04.16

10:1

15'

15'

STA. 300'B'+00
13.67' RT.

TLE

CONCRETE CURB & GUTTER
6-INCH SLOPED 30-INCH TYPE J (TYP.)

SLOPE INTERCEPTS

R/W

TLE

FINISHED C/L CTH ET

CENTURYLINK (TYP.)

CTH ET

ASPHALTIC FLUME REQ'D.

POST

GAS

LEGEND

DIRECTION OF TRAVEL

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

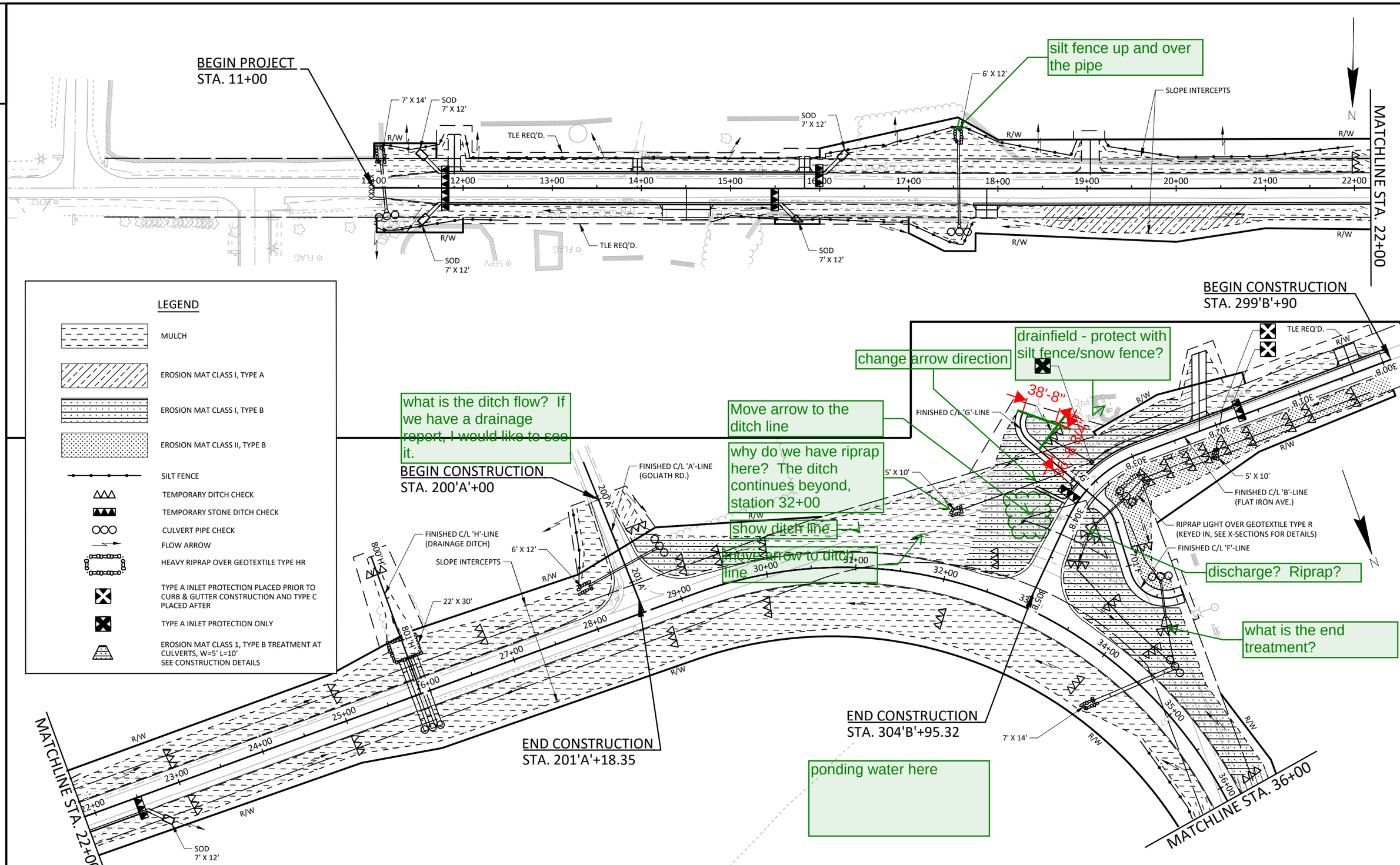
STA. 113+28, LT.
CONSTRUCT P.E. (B.A.D.)

STA. 113+49, RT.
CONSTRUCT P.E. (B.A.D.)

NOTE: SEE INTERSECTION DETAILS FOR INTERSECTION LAYOUT

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PAVING DETAILS	SHEET	E

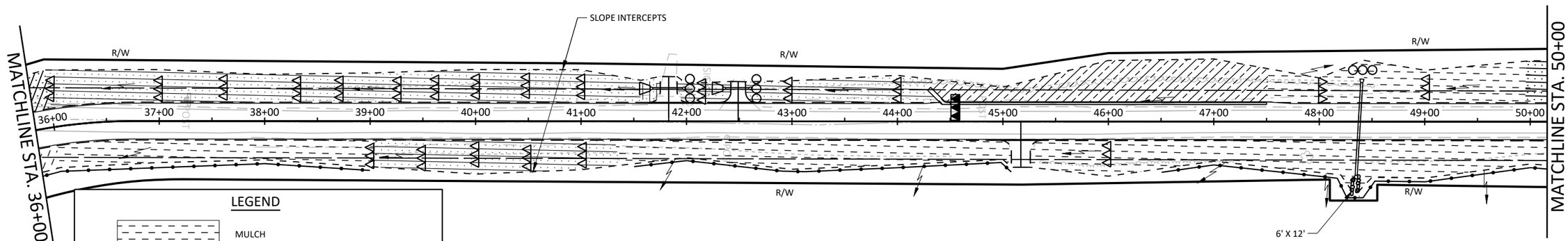
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_PAVING DETAILS.DWG PLOT DATE : 9/15/2020 1:27:27 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 6



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

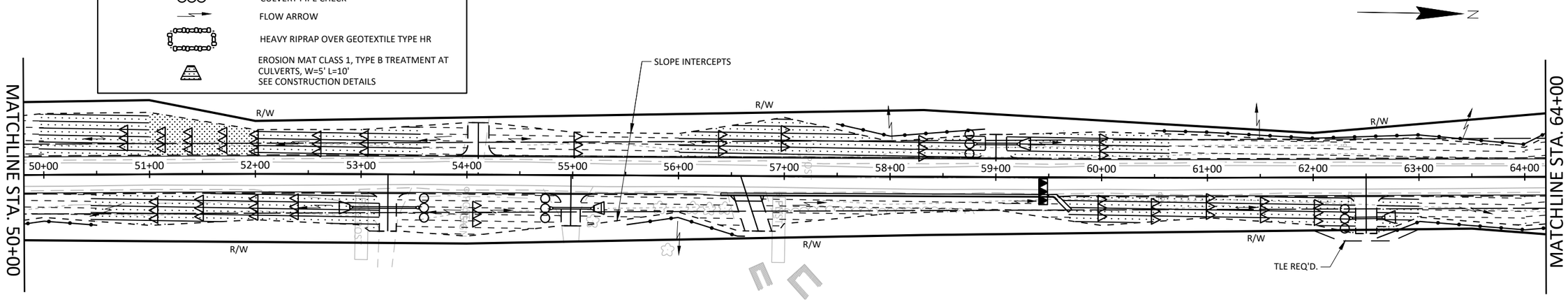
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_EROSION CONTROL.DWG
LAYOUT NAME - Layout 1
PLOT DATE : 9/15/2020 1:28 PM
PLOT BY : JONAH DRAKE
PLOT NAME :
PLOT SCALE : ###########
WISDOT/CADDS SHEET 44

2



LEGEND

- MULCH
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, 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



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_EROSION CONTROL.DWG
LAYOUT NAME - Layout 2
PLOT DATE : 9/15/2020 1:28 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########

2

BEGIN CONSTRUCTION
STA. 400'C'+00

END CONSTRUCTION
STA. 404'C'+15.75

MATCHLINE STA. 64+00

MATCHLINE STA. 79+00

MATCHLINE STA. 79+00

MATCHLINE STA. 94+00

FINISHED C/L 'C'-LINE
(FLAGSHIP AVE.)

FINISHED C/L 'I'-LINE
(DRAINAGE DITCH)

SLOPE INTERCEPTS

SLOPE INTERCEPTS

R/W

402'C

403'C

404'C

901'I

6' X 12'

7' X 14'

8' X 26'

SEE RIPRAP
LAYOUT DETAIL

SOD
7' X 12'

SOD
7' X 12'

SOD
7' X 12'

TLE REQ'D.

TLE REQ'D.

TLE REQ'D.

9' X 18'

6' X 12'

6' X 12'

64+00 65+00 66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00

79+00 80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00

LEGEND

- MULCH
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, 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

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	EROSION CONTROL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_EROSION CONTROL.DWG
LAYOUT NAME - Layout 3
PLOT DATE : 9/15/2020 1:28 PM
PLOT BY : JONAH DRAKE
PLOT NAME :
PLOT SCALE : ############

2

N

MATCHLINE STA. 94+00

94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+

MATCHLINE STA. 109+00

R/W

SLOPE INTERCEPTS

7' X 14'

TLE REQ'D.

8' X 16'

501'D'+

BEGIN CONSTRUCTION
STA. 500'D'+18

FINISHED C/L 'D'-LINE
(FLARE AVE.)

END CONSTRUCTION
STA. 501'D'+50

N

MATCHLINE STA. 109+00

109+00 110+00 111+00 112+00 113+00 114+00 115+00

SLOPE INTERCEPTS

SOD
7' X 12'

TLE REQ'D.

SOD
7' X 12'

TLE REQ'D.

600+00 601+00 602+00 603+00

BEGIN CONSTRUCTION
STA. 599'E'+60

EXISTING C/L 'E'-LINE
(STH 21)

END PROJECT
STA. 115+26.95

END CONSTRUCTION
STA. 603'E'+45

LEGEND

- MULCH
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE B
- EROSION MAT CLASS III, TYPE D
- 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

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	EROSION CONTOL PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_EROSION CONTROL.DWG
LAYOUT NAME - Layout 4
PLOT DATE : 9/15/2020 1:28 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ###########
WISDOT/CADDS SHEET 44

It would be easier for me if the profile direction was matching the layout of the erosion control sheets.

THOMAS H. ZASTOUPIL

Add north arrow

LARRY A. PITEL

OAKDALE ELECTRIC COOPERATIVE (TYP.)

CHARTER COMMUNICATIONS (TYP.)

R/W

SLOPE INTERCEPTS

PT: 304+04.16

N44°17'39"E

305'B'

304'B'

303'B'

302'B'

301'B'

300'B'

N88°43'28"E

PC: 302+92.49

FINISHED C/L 'B'-LINE (FLAT IRON AVE)

FINISHED C/L CTH ET

EW - 1
302'B'+06.64, -20.55' LT

P - 101

I - 100
301'B'+78.50, 11.17' RT.
RIM: 1015.79

P - 100

I - 101
301'B'+88.50, 11.17' RT
RIM: 1015.00

P - 102

I - 102
303'B'+40.00, 18.67' RT
RIM: 1003.69

EW - 2
303'B'+83.41, 47.34' RT

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

POST

FO

G

E

WELL

WE ENERGIES (TYP.)

BEGIN CONSTRUCTION
STA. 299'B'+90

DAWN M. BURKHALTER

BEVERLY J. BURKHALTER

JOHN J. DA SILVA

Is there riprap at the end of the pipe? is this a ditch

I - 100
P-100: 1013.12

I - 101
P-100: 1011.89
P-101: 1011.79

EW - 1
P-101: 1010.48

P - 100
10' of 12" RCP @ 18.74%

P - 101
38' of 18" RCP @ 3.63%

I - 102
P-102: 1001.31

EW - 2
P-102: 995.55

P - 102
60' of 18" RCP @ 9.89%

1022 1020 1018 1016 1014 1012 1010 1008 1006 1004 1002 1000 998 996 994 992 990 988 986 984

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	STORM SEWER PLAN	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\FLAT IRON AVE STORM SEWER.DWG
LAYOUT NAME - 'B'-LINE (FLAT IRON AVE) STORM SEWER

PLOT DATE : 9/15/2020 1:28 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########

2

BEGIN PROJECT
STA. 11+00

FINISHED C/L CTH ET

1-02 SPEED LIMIT 35 R2-1 24"X30"

1-03R SPEED LIMIT 35 REMOVE

1-00 SPEED LIMIT 35 R2-1 24"X30"

1-01R SPEED LIMIT 35 REMOVE

1-04 SPEED LIMIT 55 R2-1 24"X30"

1-05R END SPEED ZONE REMOVE

RC: 18+2012

RT: 18+6939

N

MATCHLINE STA. 20+00

LEGEND

- REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS/MOVING SIGNS TYPE II/MOVING SMALL SIGN SUPPORTS
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- Ⓐ PAVEMENT MARKING 4-INCH EPOXY (DOUBLE YELLOW)
- Ⓑ PAVEMENT MARKING 4-INCH EPOXY (WHITE EDGELINE)
- Ⓒ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
- Ⓓ MARKING LINE EPOXY 8-INCH
- ESTR EXISTING SIGN TO REMAIN
- (XXXX) DESIGNATES SIGN NUMBER

* VILLAGE 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.

2-00R SPEED LIMIT 35 REMOVE

2-01 SPEED LIMIT 35 W3-5 36"X36"

FINISHED C/L CTH ET

FINISHED C/L 'H'-LINE (DRAINAGE DITCH)

* GOLIATH RD
* COUNTY ET

801 LH

BEGIN CONSTRUCTION
STA. 200'A'+00

200'A'

FINISHED C/L 'A'-LINE (GOLIATH RD)

2-04 STOP R1-1 30"X30"

2-05R STOP REMOVE

201'A'

MATCHLINE STA. 20+00

MATCHLINE STA. 29+00

2-02 W1-2R 30"X30"

2-03 35 MPH W13-1 18"X18"

END CONSTRUCTION
STA. 201'A'+18.35

2-06R REMOVE

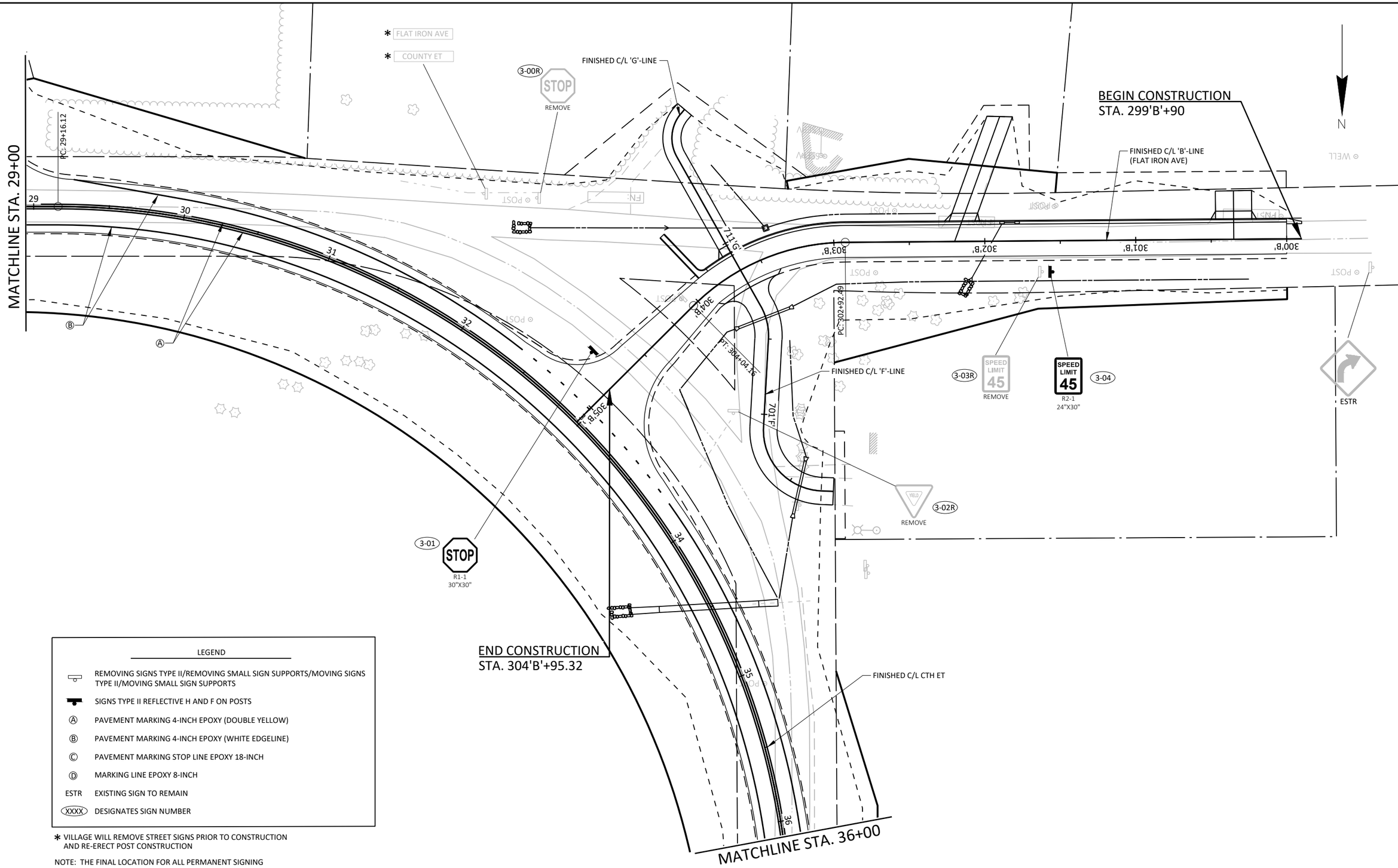
2-07R 35 MPH REMOVE

N

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG PLOT DATE : 9/15/2020 1:28:55 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT1

2



LEGEND

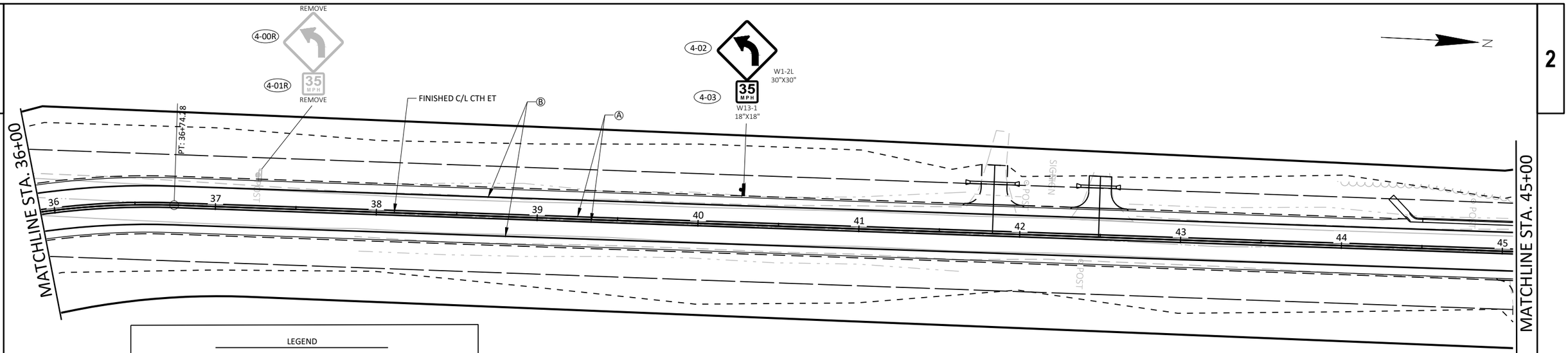
	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS/MOVING SIGNS TYPE II/MOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	PAVEMENT MARKING 4-INCH EPOXY (DOUBLE YELLOW)
Ⓑ	PAVEMENT MARKING 4-INCH EPOXY (WHITE EDGELINE)
Ⓒ	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
Ⓓ	MARKING LINE EPOXY 8-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

* VILLAGE 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: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

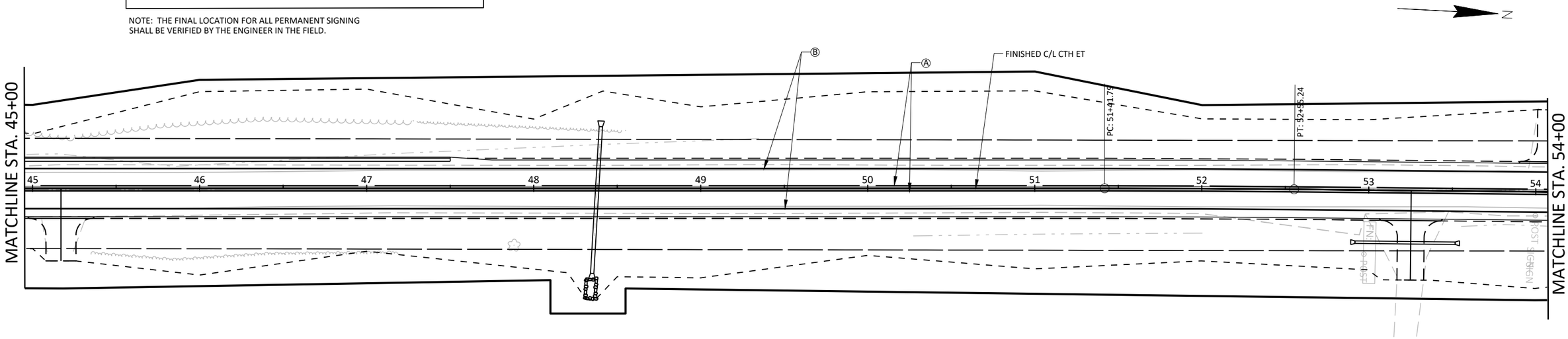
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG
PLOT DATE : 9/15/2020 1:28:57 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : LAYOUT 2



LEGEND

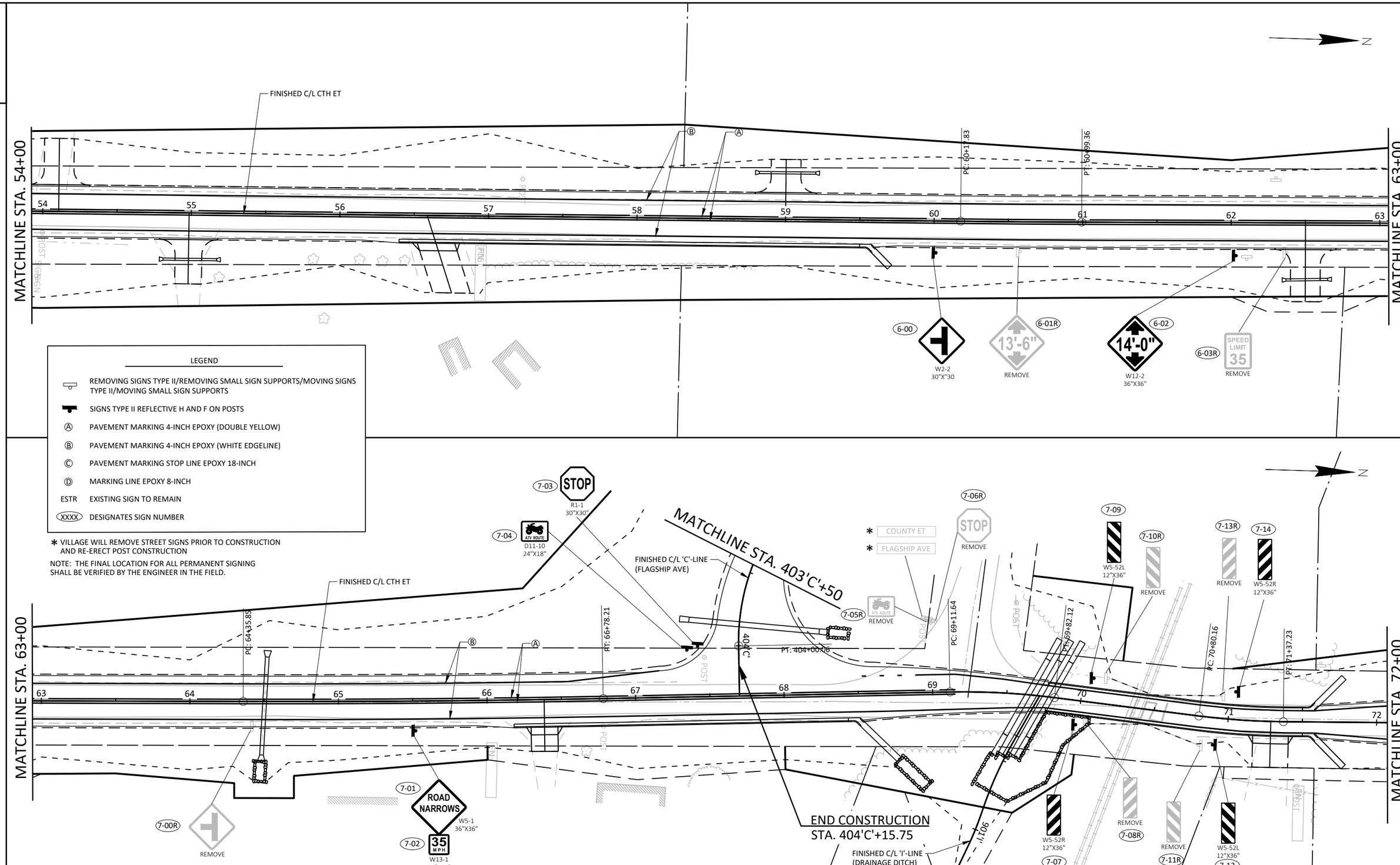
- REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS/MOVING SIGNS TYPE II/MOVING SMALL SIGN SUPPORTS
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- Ⓐ PAVEMENT MARKING 4-INCH EPOXY (DOUBLE YELLOW)
- Ⓑ PAVEMENT MARKING 4-INCH EPOXY (WHITE EDGELINE)
- Ⓒ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
- Ⓓ MARKING LINE EPOXY 8-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.



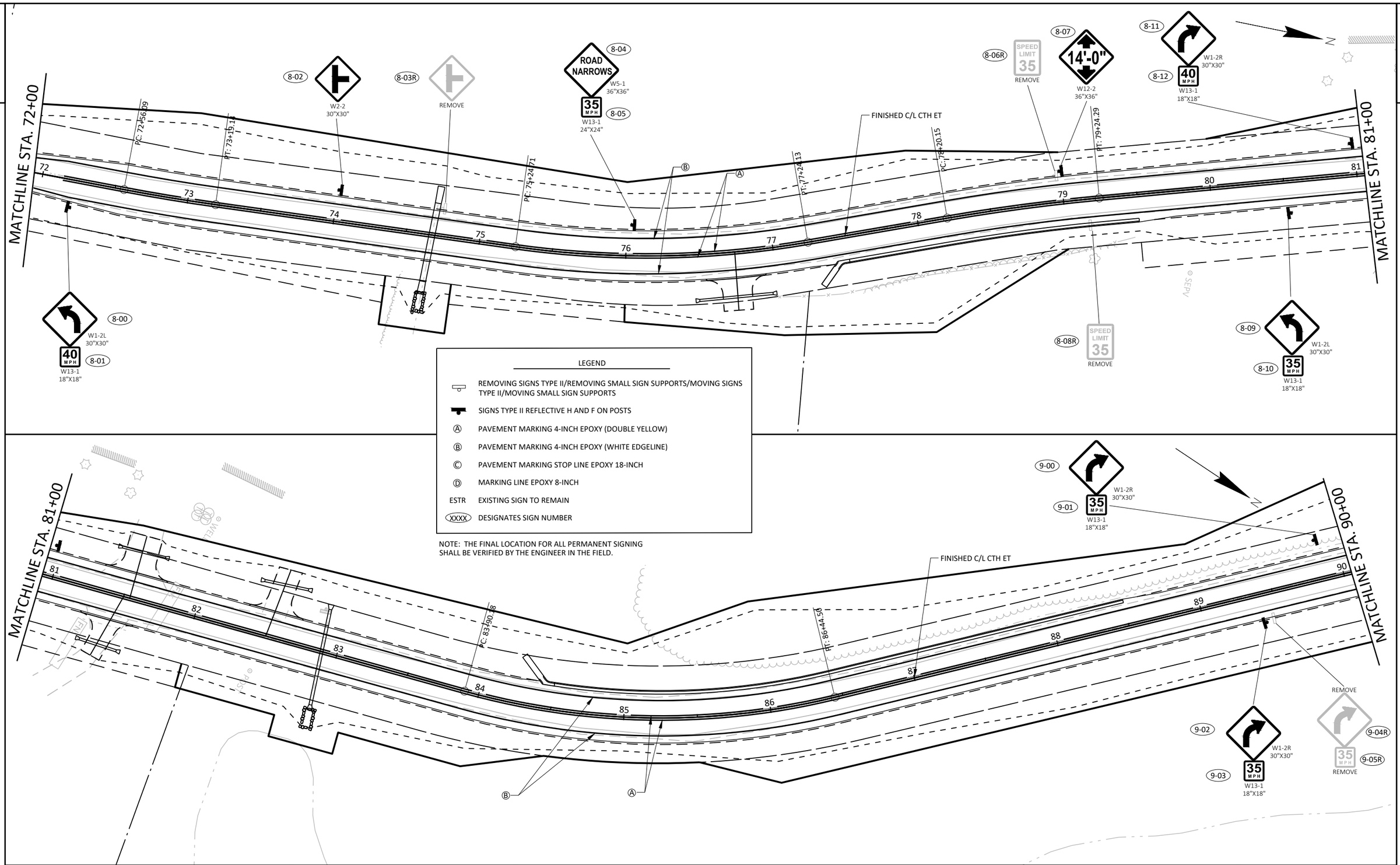
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG PLOT DATE : 9/15/2020 1:29:00 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 3



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG PLOT DATE : 9/15/2020 1:29:03 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 4



LEGEND

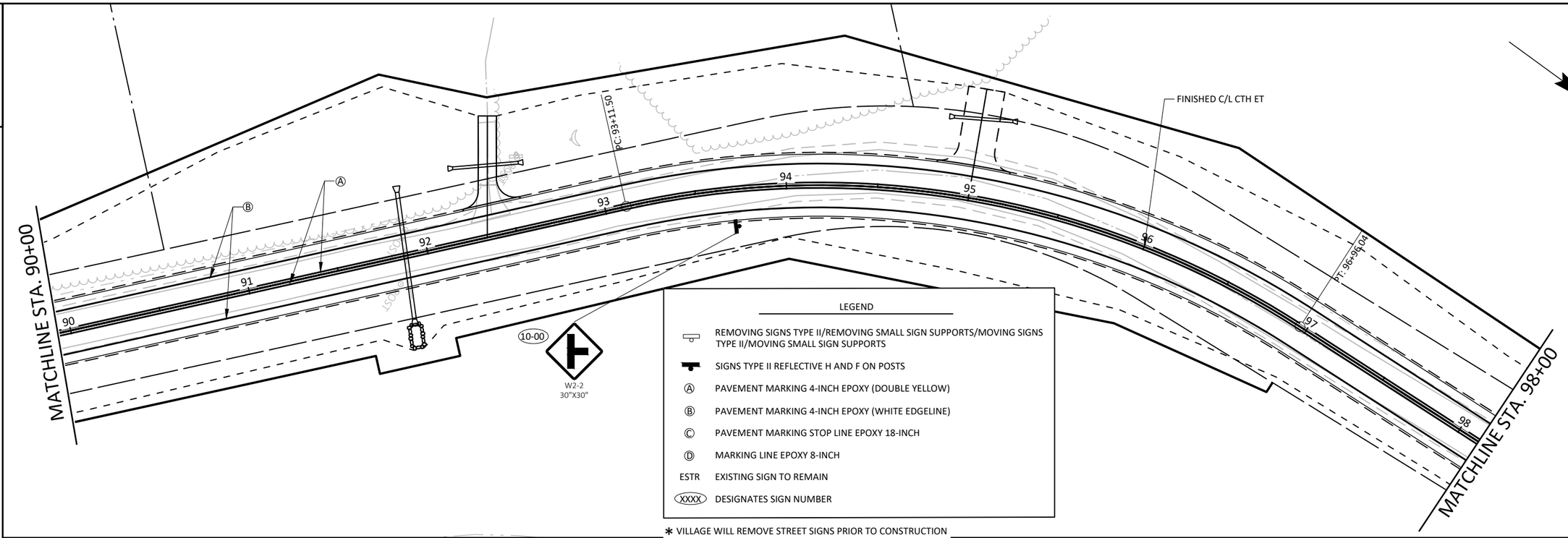
- REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS/MOVING SIGNS TYPE II/MOVING SMALL SIGN SUPPORTS
- SIGNS TYPE II REFLECTIVE H AND F ON POSTS
- Ⓐ PAVEMENT MARKING 4-INCH EPOXY (DOUBLE YELLOW)
- Ⓑ PAVEMENT MARKING 4-INCH EPOXY (WHITE EDGELINE)
- Ⓒ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
- Ⓓ MARKING LINE EPOXY 8-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: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG
PLOT DATE : 9/15/2020 1:29:07 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : LAYOUT 5

2

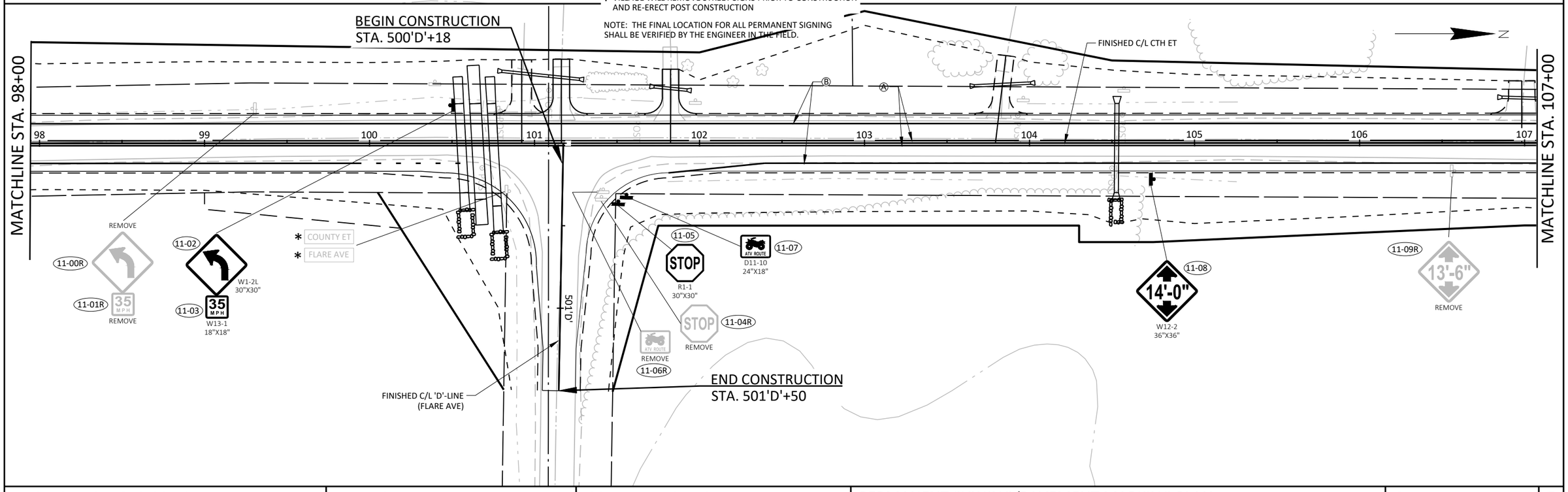


LEGEND

	REMOVING SIGNS TYPE II/REMOVING SMALL SIGN SUPPORTS/MOVING SIGNS TYPE II/MOVING SMALL SIGN SUPPORTS
	SIGNS TYPE II REFLECTIVE H AND F ON POSTS
Ⓐ	PAVEMENT MARKING 4-INCH EPOXY (DOUBLE YELLOW)
Ⓑ	PAVEMENT MARKING 4-INCH EPOXY (WHITE EDGELINE)
Ⓒ	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
Ⓓ	MARKING LINE EPOXY 8-INCH
ESTR	EXISTING SIGN TO REMAIN
XXXX	DESIGNATES SIGN NUMBER

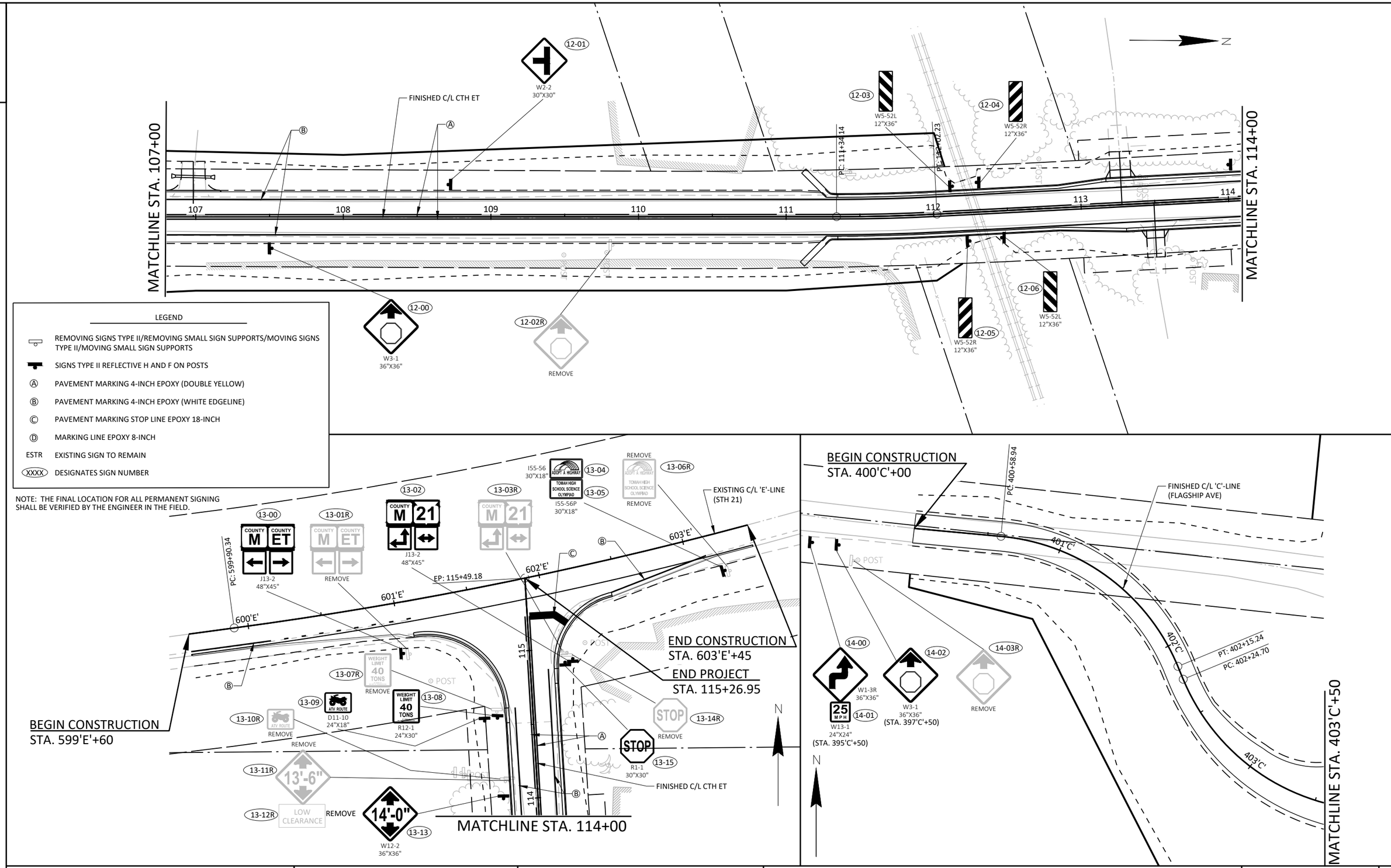
* VILLAGE WILL REMOVE STREET SIGNS PRIOR TO CONSTRUCTION AND RE-ERECT POST CONSTRUCTION

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



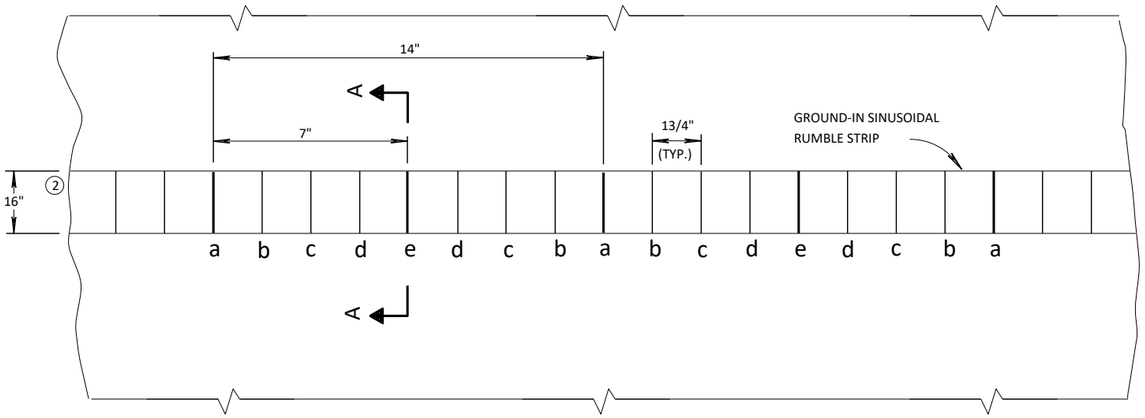
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG
PLOT DATE : 9/15/2020 1:29:10 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : LAYOUT 6



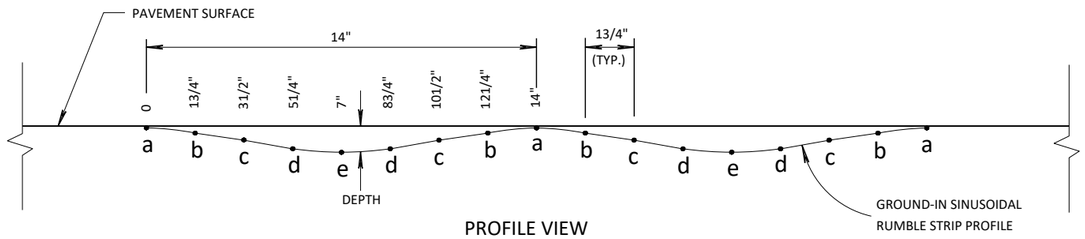
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PERMANENT SIGNING/PAVEMENT MARKING PLAN	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_SIGNING & PAVEMENT MARKING.DWG PLOT DATE : 9/15/2020 1:29:14 PM PLOT BY : JONAH DRAKE PLOT SCALE : 1" = 1' LAYOUT : LAYOUT 7



PLAN VIEW

CENTERLINE WITH GROUND-IN SINUSOIDAL RUMBLE STRIP



PROFILE VIEW

GROUND-IN SINUSOIDAL RUMBLE STRIP

LOCATION	DEPTH INCHES
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

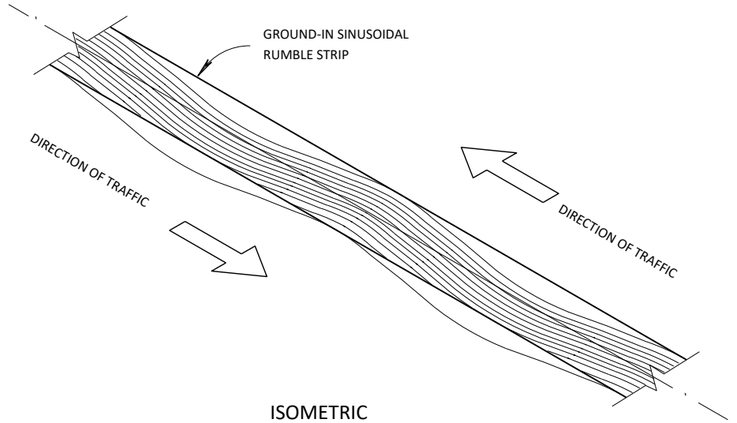
SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

THE WIDTH OF THE GROOVE WILL BE 16 INCHES.

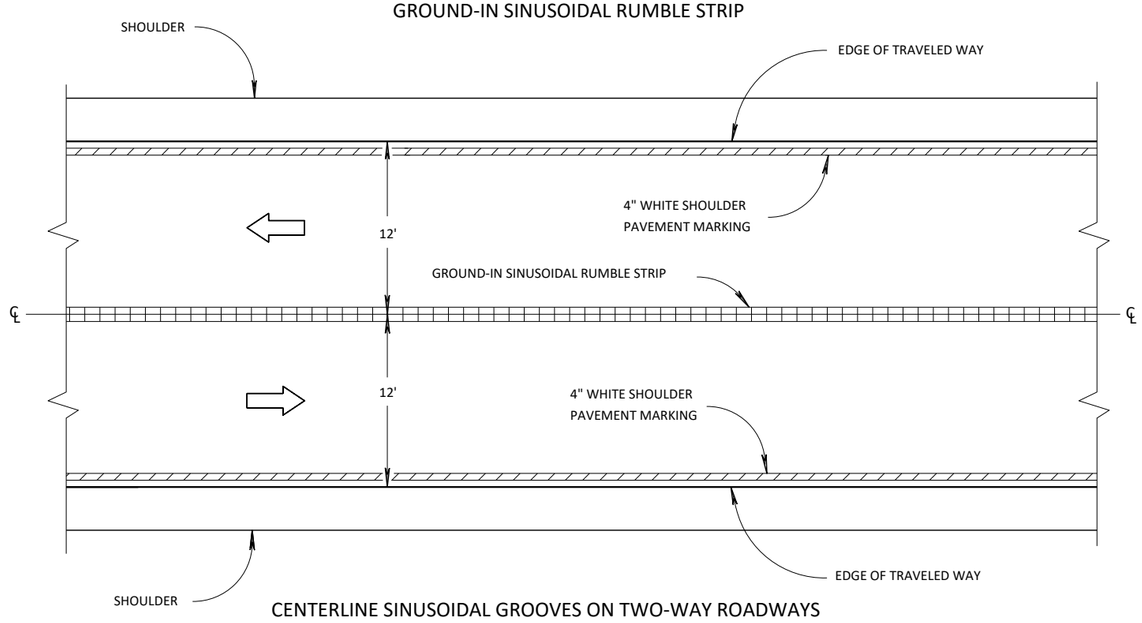
THE PAVEMENT MARKINGS WILL BE ENTIRELY INSIDE THE RUMBLE STRIP.

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

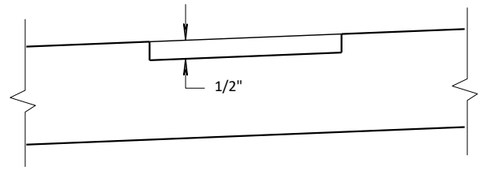
(2) SEE CONTRACT PLANS FOR SINUSOIDAL STRIP WIDTH.



ISOMETRIC

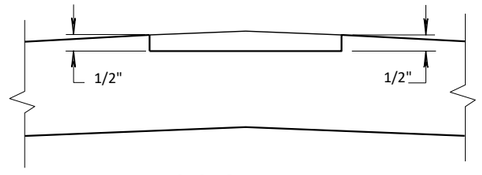


CENTERLINE SINUSOIDAL GROOVES ON TWO-WAY ROADWAYS



SECTION A-A

SUPERELEVATED ROADWAY



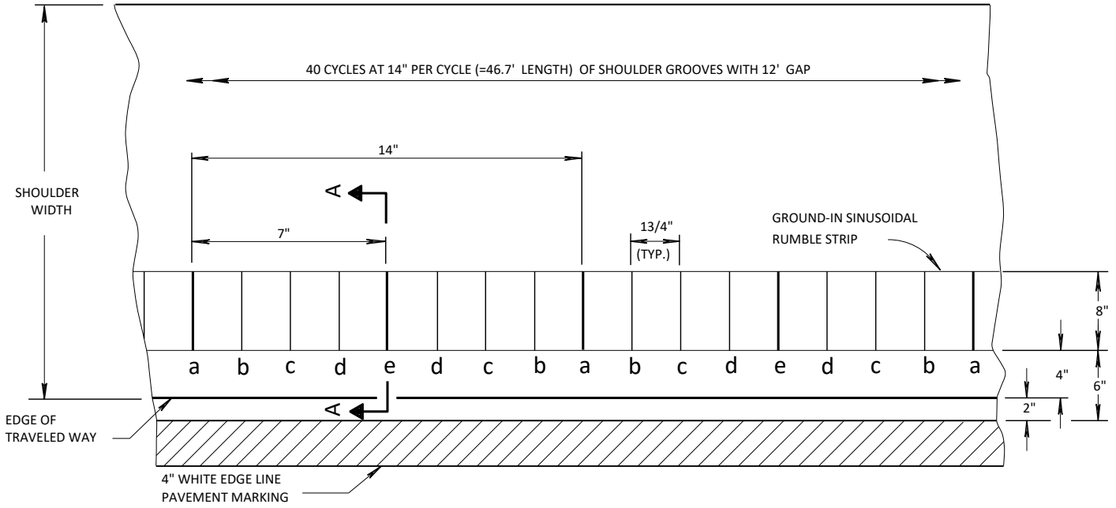
SECTION A-A

CROWNED ROADWAY

ASPHALTIC CENTERLINE RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL

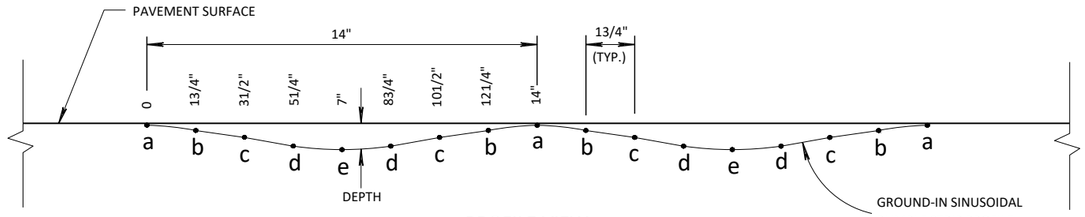
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS - CENTER LINE RUMBLE STRIPS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_CONSTRUCTION DETAILS.DWG
PLOT DATE : 9/15/2020 1:29:32 PM
PLOT BY : JONAH DRAKE
PLOT SCALE : 1" = 1'
LAYOUT : CL MUMBLE STRIPS



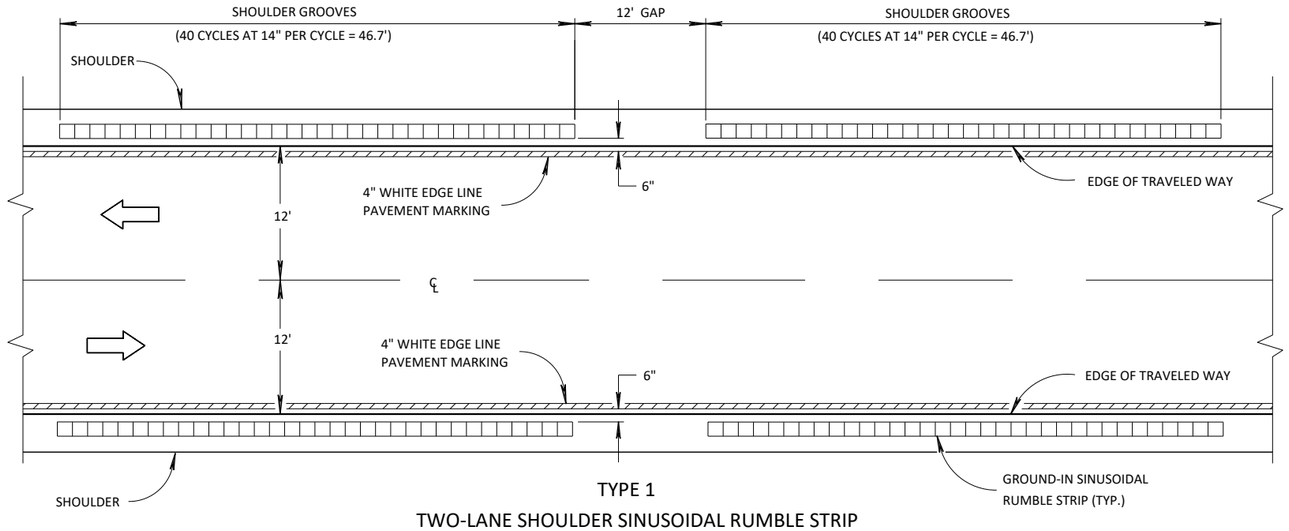
PLAN VIEW

SHOULDER WITH GROUND-IN SINUSOIDAL RUMBLE STRIP



PROFILE VIEW

GROUND-IN SINUSOIDAL RUMBLE STRIP



TYPE 1

TWO-LANE SHOULDER SINUSOIDAL RUMBLE STRIP

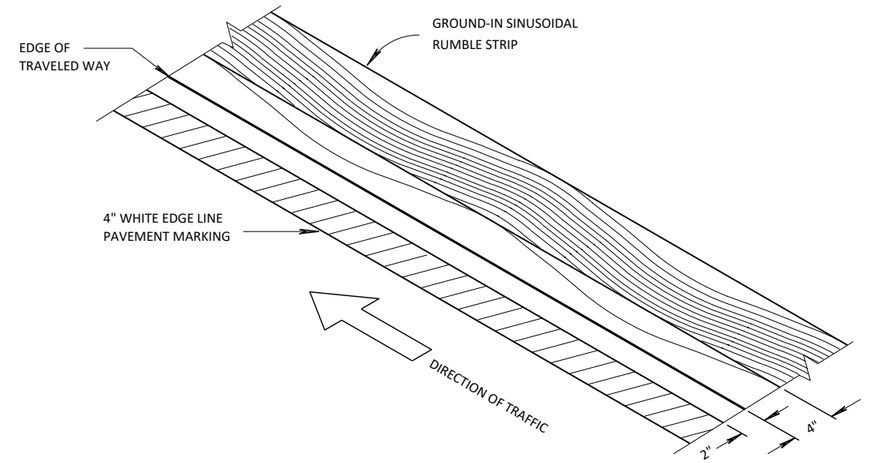
LOCATION	DEPTH INCHES
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

GENERAL NOTES

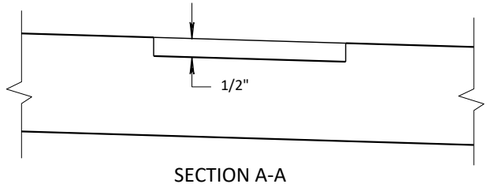
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



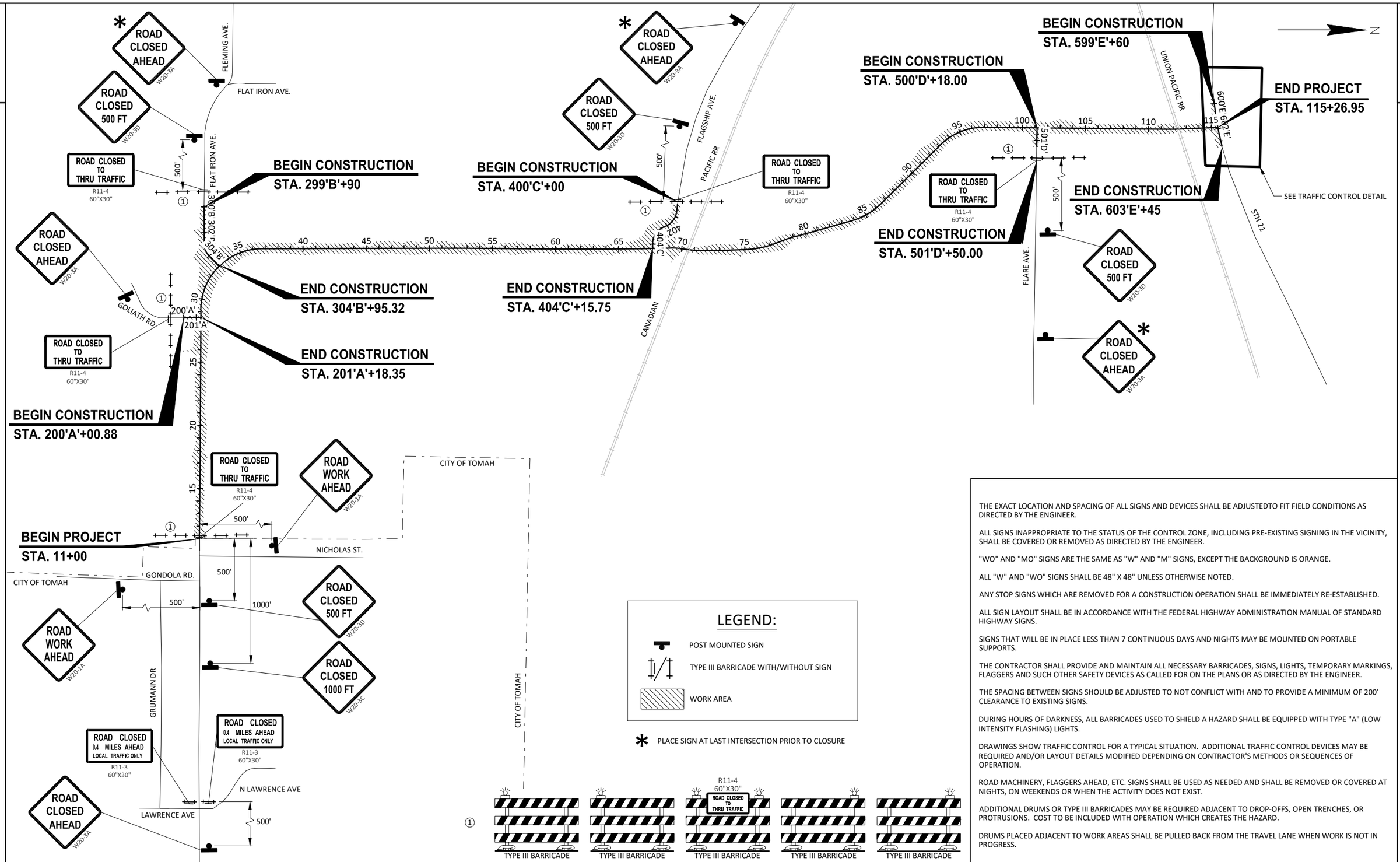
ISOMETRIC



SECTION A-A

ASPHALTIC SHOULDER RUMBLE STRIP, SINUSOIDAL, 2-LANE RURAL

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONSTRUCTION DETAILS - SHOULDER RUMBLE STRIPS	SHEET	E



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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED 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.

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

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.

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TRAFFIC CONTROL OVERVIEW	SHEET	E

2

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED 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.

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

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.

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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.

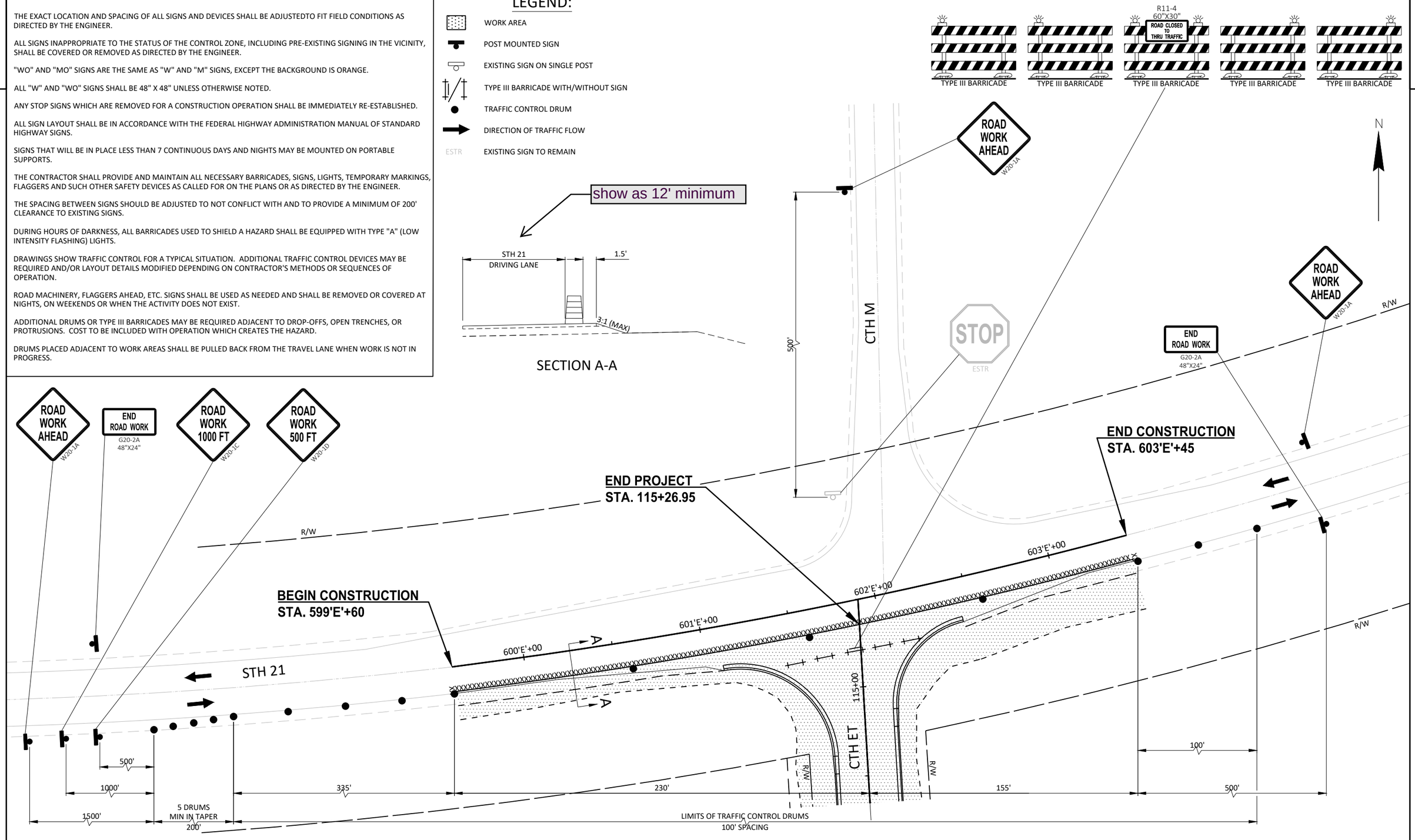
ADDITIONAL DRUMS OR TYPE III BARRICADES MAY BE REQUIRED ADJACENT TO DROP-OFFS, OPEN TRENCHES, OR PROTRUSIONS. COST TO BE INCLUDED WITH OPERATION WHICH CREATES THE HAZARD.

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

LEGEND:

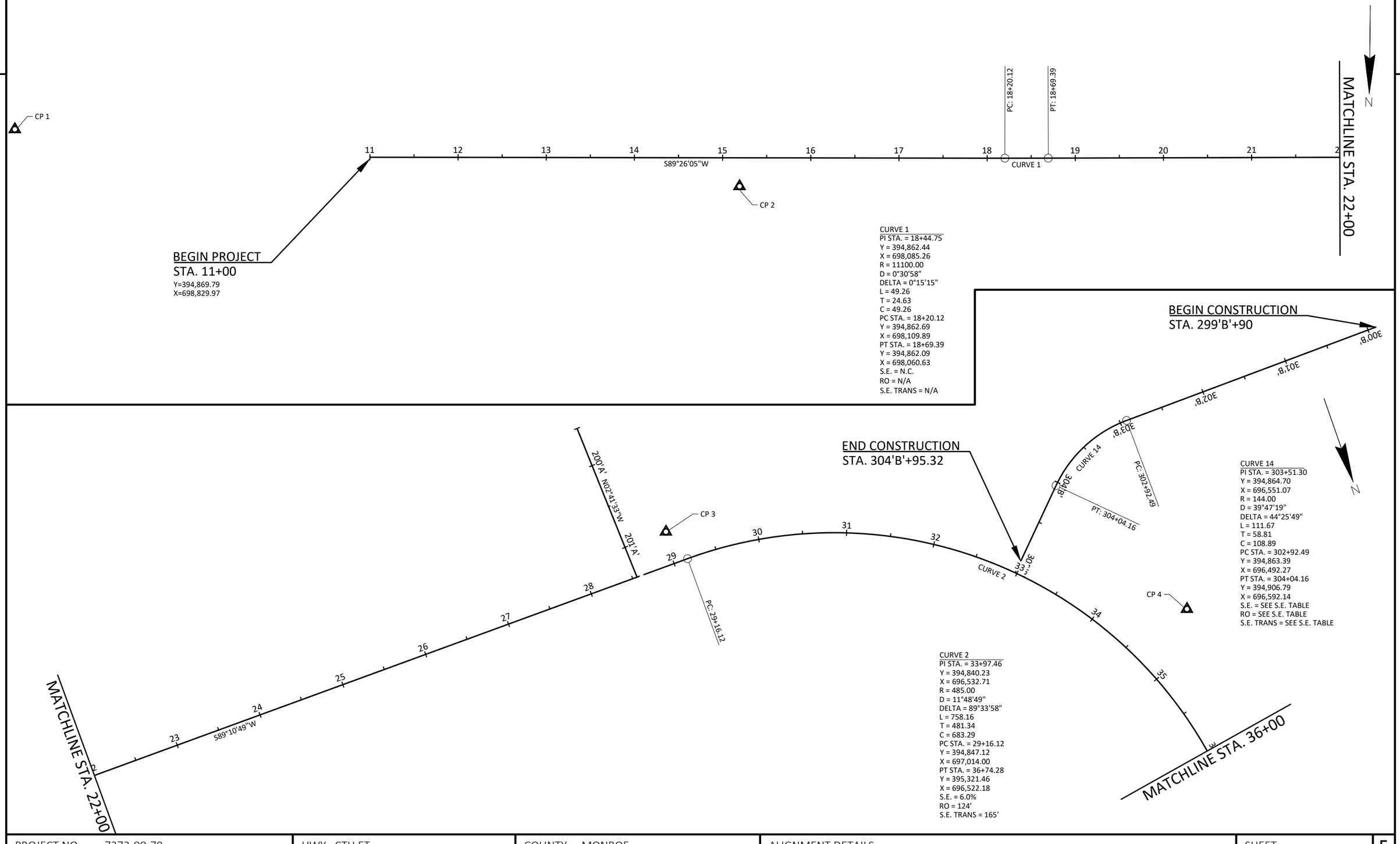
- WORK AREA
- POST MOUNTED SIGN
- EXISTING SIGN ON SINGLE POST
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC FLOW
- ESTR — EXISTING SIGN TO REMAIN

SECTION A-A



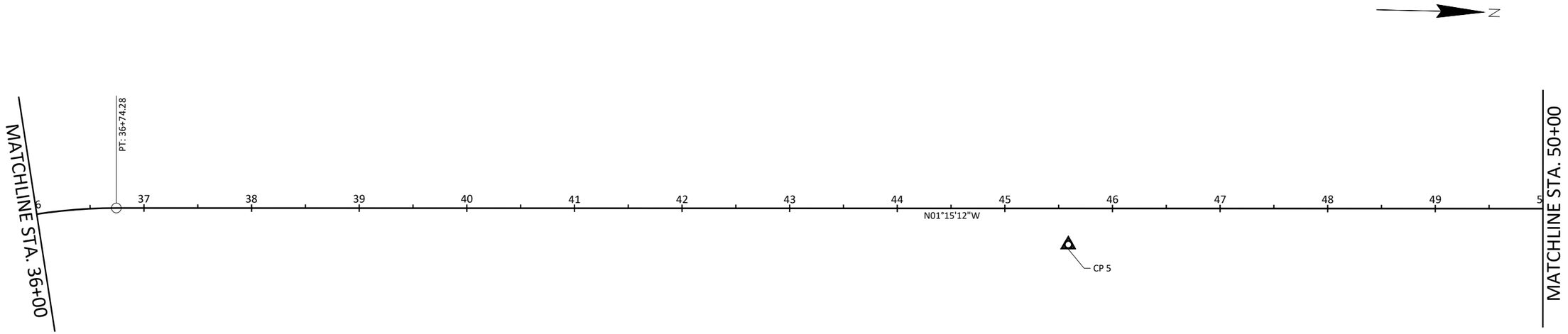
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	TRAFFIC CONTROL DETAIL	SHEET	E

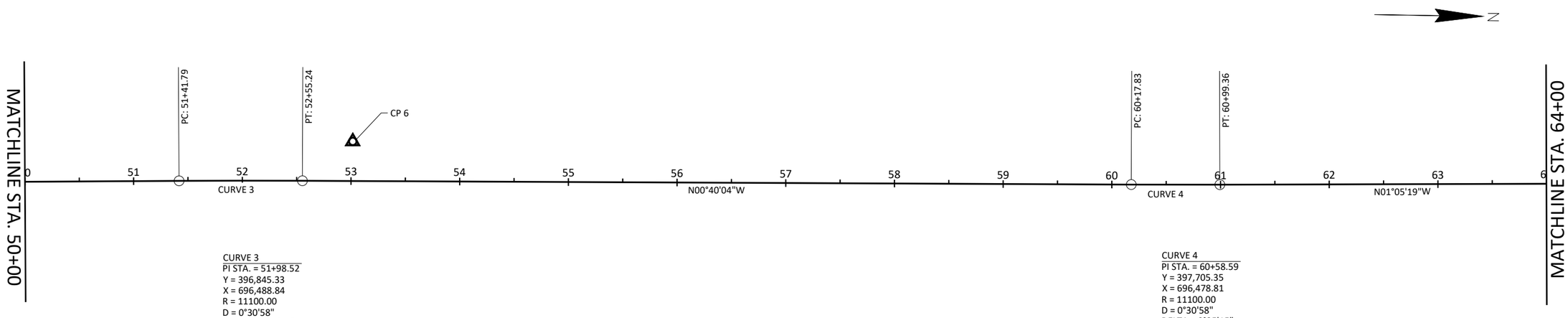
2



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET	E

2





CURVE 3
PI STA. = 51+98.52
Y = 396,845.33
X = 696,488.84
R = 11100.00
D = 0°30'58"
DELTA = 0°35'08"
L = 113.45
T = 56.72
C = 113.45
PC STA. = 51+41.79
Y = 396,788.62
X = 696,490.08
PT STA. = 52+55.24
Y = 396,902.05
X = 696,488.18
S.E. = N.C.
RO = N/A
S.E. TRANS = N/A

CURVE 4
PI STA. = 60+58.59
Y = 397,705.35
X = 696,478.81
R = 11100.00
D = 0°30'58"
DELTA = 0°25'15"
L = 81.53
T = 40.77
C = 81.53
PC STA. = 60+17.83
Y = 397,664.58
X = 696,479.29
PT STA. = 60+99.36
Y = 397,746.11
X = 696,478.04
S.E. = N.C.
RO = N/A
S.E. TRANS = N/A

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET	E

2

BEGIN CONSTRUCTION
STA. 400'C'+00

END CONSTRUCTION
STA. 404'C'+15.75

MATCHLINE STA. 64+00

MATCHLINE STA. 79+00

MATCHLINE STA. 94+00

CURVE 5
PI STA. = 65+57.03
Y = 398,203.70
X = 696,469.34
R = 11100.00
D = 0°30'58"
DELTA = 1°15'04"
L = 242.37
T = 121.19
C = 242.36
PC STA. = 64+35.85
Y = 398,082.53
X = 696,471.65
PT STA. = 66+78.21
Y = 398,324.78
X = 696,464.40
S.E. = N.C.
RO = N/A
S.E. TRANS = N/A

CURVE 16
PI STA. = 403+25.10
Y = 398,411.02
X = 696,326.66
R = 144.00
D = 39°47'19"
DELTA = 69°46'25"
L = 175.36
T = 100.41
C = 164.72
PC STA. = 402+24.70
Y = 398,503.74
X = 696,288.13
PT STA. = 404+00.06
Y = 398,415.12
X = 696,426.98
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CURVE 15
PI STA. = 401+45.79
Y = 398,592.68
X = 696,251.17
R = 144.00
D = 39°47'19"
DELTA = 62°11'33"
L = 156.31
T = 86.85
C = 148.75
PC STA. = 400+58.94
Y = 398,600.61
X = 696,164.68
PT STA. = 402+15.24
Y = 398,512.47
X = 696,284.50
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CURVE 6
PI STA. = 69+46.94
Y = 398,593.29
X = 696,453.43
R = 485.00
D = 11°48'49"
DELTA = 8°19'33"
L = 70.48
T = 35.30
C = 70.41
PC STA. = 69+11.64
Y = 398,558.02
X = 696,454.87
PT STA. = 69+82.12
Y = 398,628.40
X = 696,457.11
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CURVE 7
PI STA. = 71+08.73
Y = 398,754.32
X = 696,470.31
R = 485.00
D = 11°48'49"
DELTA = 6°44'29"
L = 57.07
T = 28.57
C = 57.03
PC STA. = 70+80.16
Y = 398,725.91
X = 696,467.33
PT STA. = 71+37.23
Y = 398,782.88
X = 696,469.93
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CURVE 8
PI STA. = 72+87.62
Y = 398,933.26
X = 696,467.95
R = 1330.00
D = 4°18'29"
DELTA = 2°42'58"
L = 63.05
T = 31.53
C = 63.04
PC STA. = 72+56.09
Y = 398,901.73
X = 696,468.37
PT STA. = 73+19.14
Y = 398,964.73
X = 696,466.04
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CURVE 9
PI STA. = 76+25.22
Y = 399,270.26
X = 696,447.51
R = 643.00
D = 8°54'39"
DELTA = 17°46'12"
L = 199.42
T = 100.52
C = 198.62
PC STA. = 75+24.71
Y = 399,169.92
X = 696,453.60
PT STA. = 77+24.13
Y = 399,363.95
X = 696,411.09
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CURVE 10
PI STA. = 78+72.25
Y = 399,502.00
X = 696,357.43
R = 1330.00
D = 4°18'29"
DELTA = 4°29'11"
L = 104.14
T = 52.10
C = 104.12
PC STA. = 78+20.15
Y = 399,453.44
X = 696,376.30
PT STA. = 79+24.29
Y = 399,551.89
X = 696,342.41
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

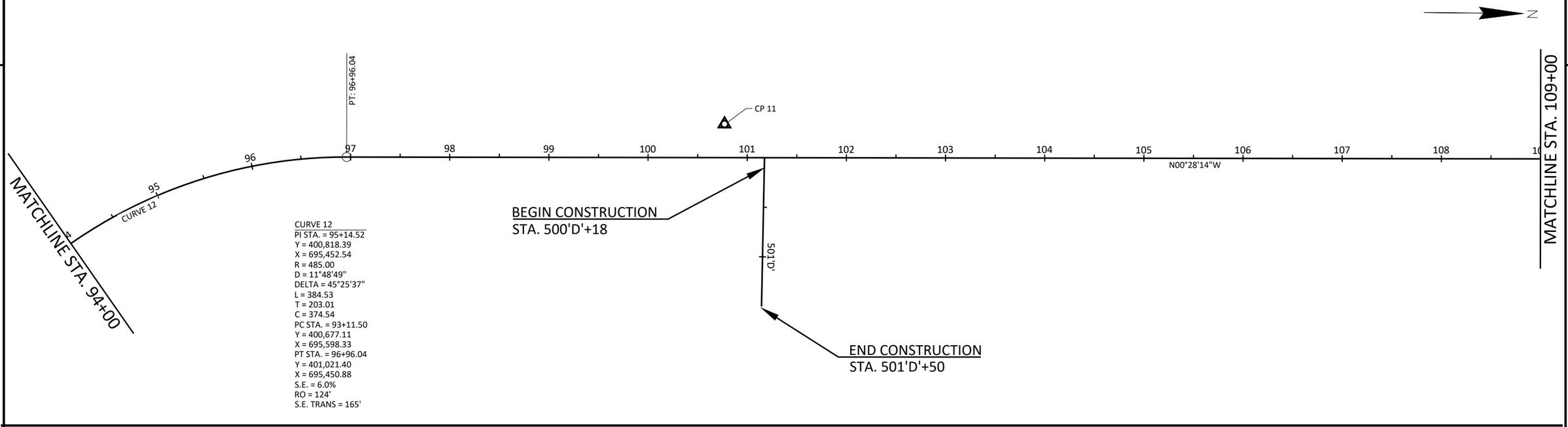
CURVE 11
PI STA. = 85+20.16
Y = 400,122.46
X = 696,170.63
R = 500.00
D = 11°27'33"
DELTA = 29°08'34"
L = 254.32
T = 129.97
C = 251.59
PC STA. = 83+90.18
Y = 399,998.00
X = 696,208.10
PT STA. = 86+44.50
Y = 400,212.91
X = 696,077.30
S.E. = 6.0%
RO = 124'
S.E. TRANS = 165'

CP 7
CP 8
CP 9
CP 10

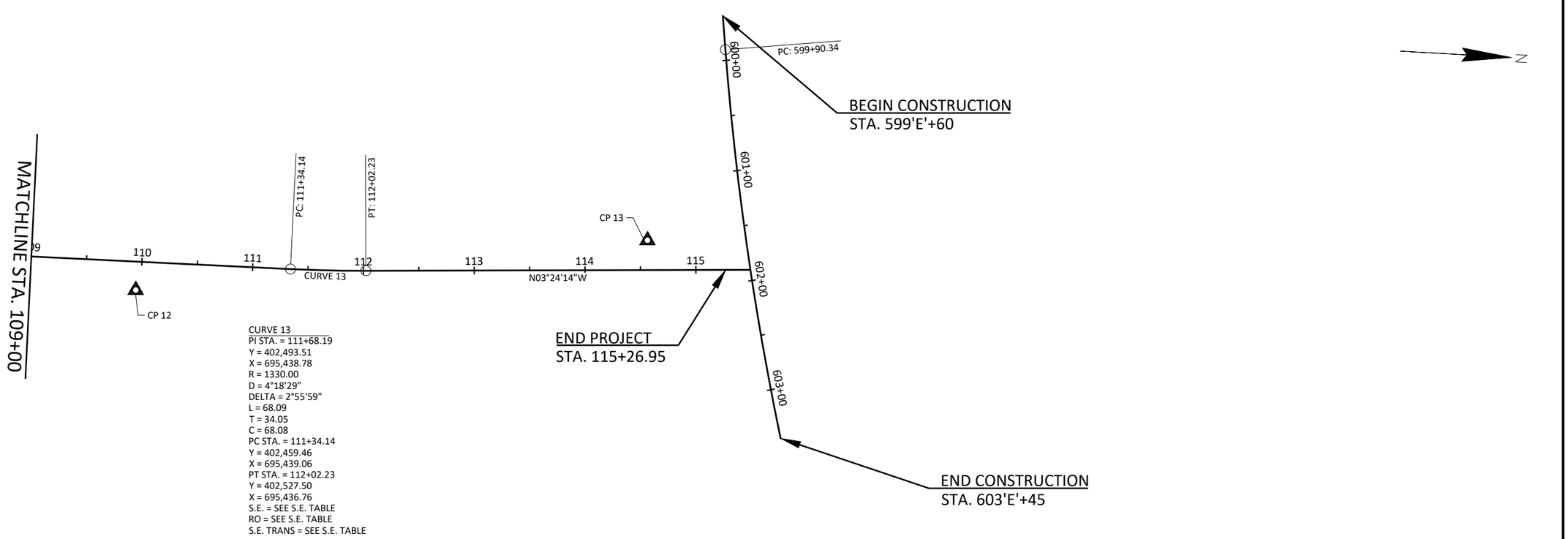
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_ALIGNMENT DETAILS.DWG
LAYOUT NAME - Layout 3
PLOT DATE : 9/15/2020 1:30 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ############

2



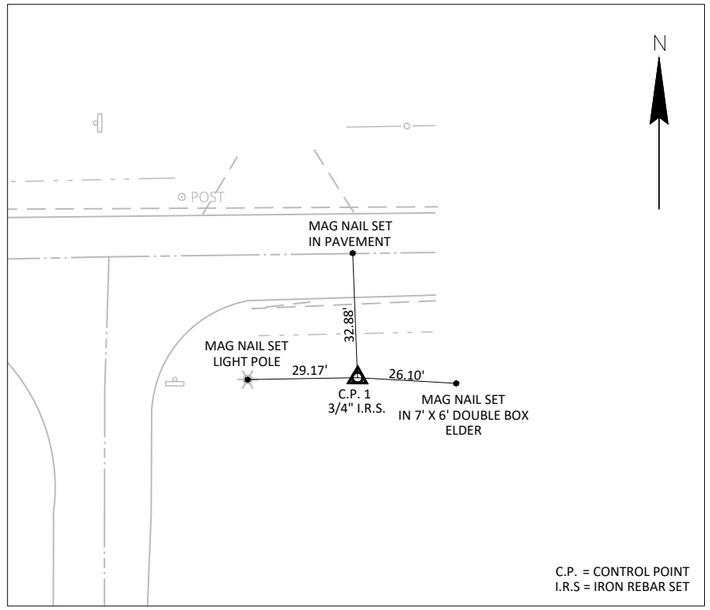
CURVE 12
PI STA. = 95+14.52
Y = 400,818.39
X = 695,452.54
R = 485.00
D = 11°48'49"
DELTA = 45°25'37"
L = 384.53
T = 203.01
C = 374.54
PC STA. = 93+11.50
Y = 400,677.11
X = 695,598.33
PT STA. = 96+96.04
Y = 401,021.40
X = 695,450.88
S.E. = 6.0%
RO = 124'
S.E. TRANS = 165'



CURVE 13
PI STA. = 111+68.19
Y = 402,493.51
X = 695,438.78
R = 1330.00
D = 4°18'29"
DELTA = 2°55'59"
L = 68.09
T = 34.05
C = 68.08
PC STA. = 111+34.14
Y = 402,459.46
X = 695,439.06
PT STA. = 112+02.23
Y = 402,527.50
X = 695,436.76
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

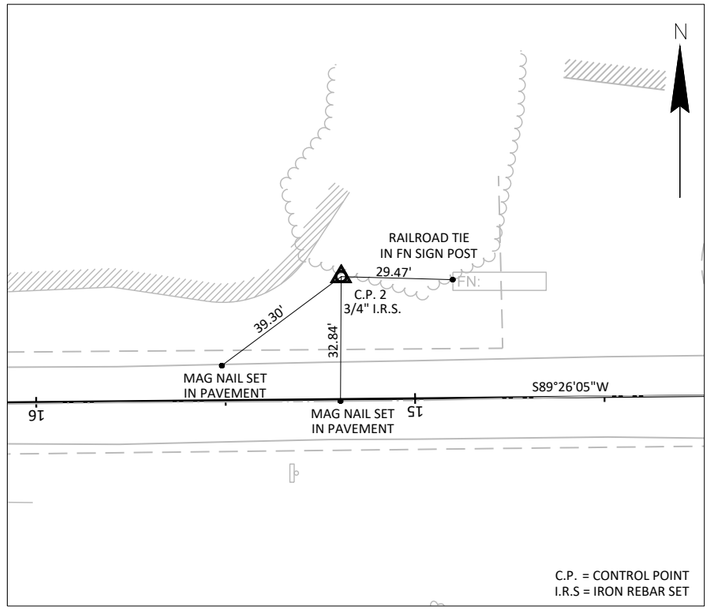
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	ALIGNMENT DETAILS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_ALIGNMENT DETAILS.DWG
LAYOUT NAME - Layout 4
PLOT DATE : 9/15/2020 1:30 PM
PLOT BY : JONAH DRAKE
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44



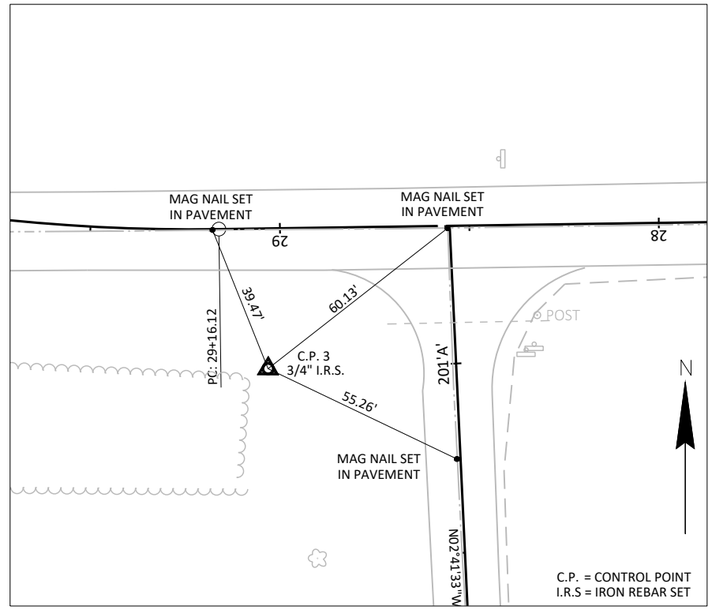
TIES TO C.P.#1

STA. 6+97.62, 32.75' LT
Y = 394,842.11
X = 699,232.77



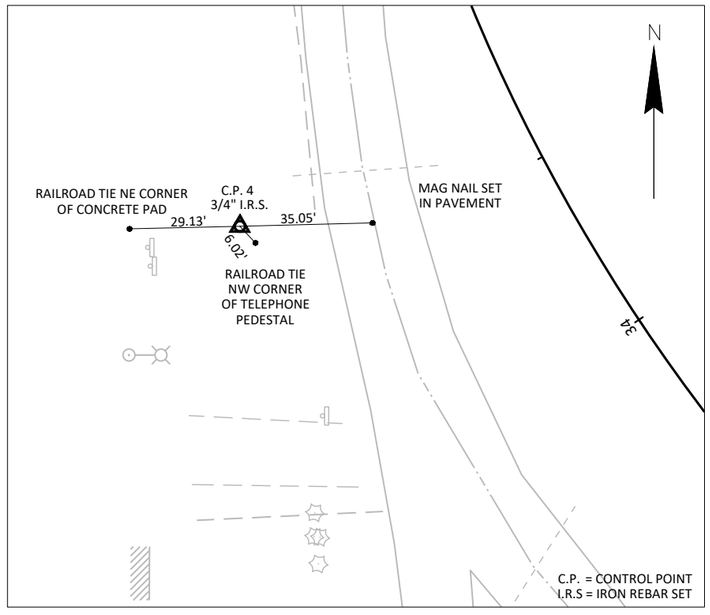
TIES TO C.P.#2

STA. 15+19.21, 32.38' RT
Y = 394,898.04
X = 698,410.47



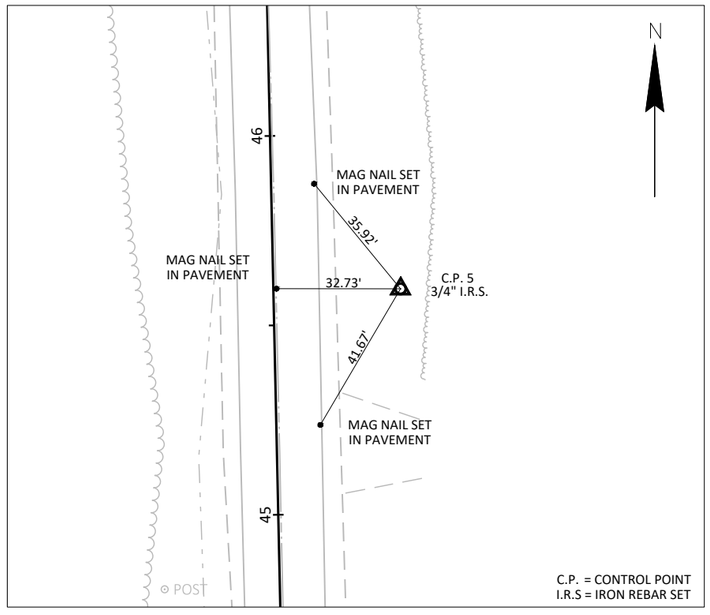
TIES TO C.P.#3

STA. 29+03.65, 36.99' LT
Y = 394,810.31
X = 697,027.00



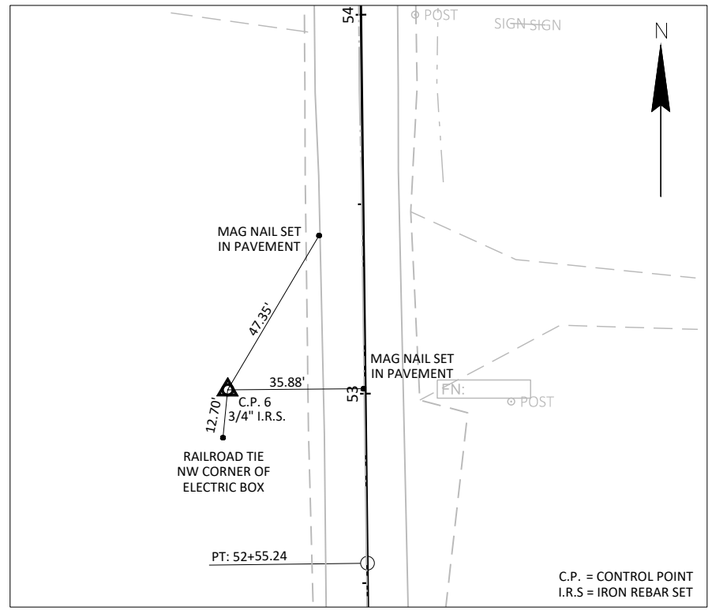
TIES TO C.P.#4

STA. 34+68.02, 79.56' LT
Y = 395,087.95
X = 696,498.02



TIES TO C.P.#5

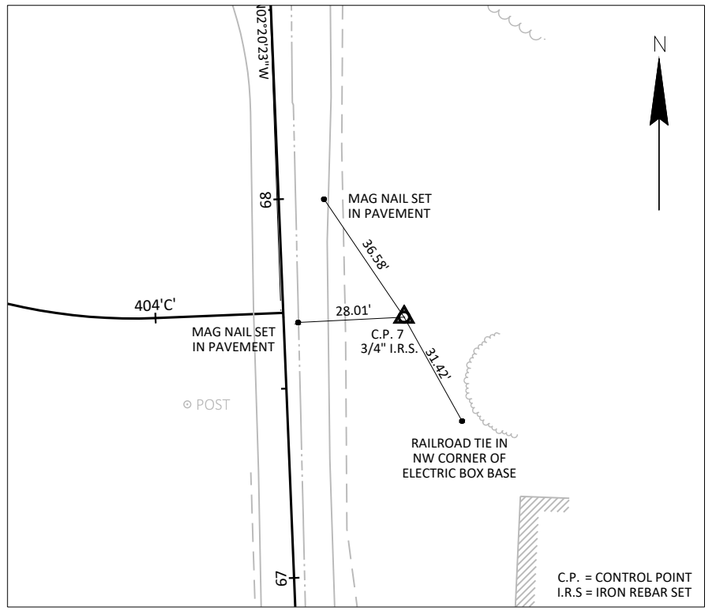
STA. 45+58.90, 33.57' RT
Y = 396,206.60
X = 696,536.39



TIES TO C.P.#6

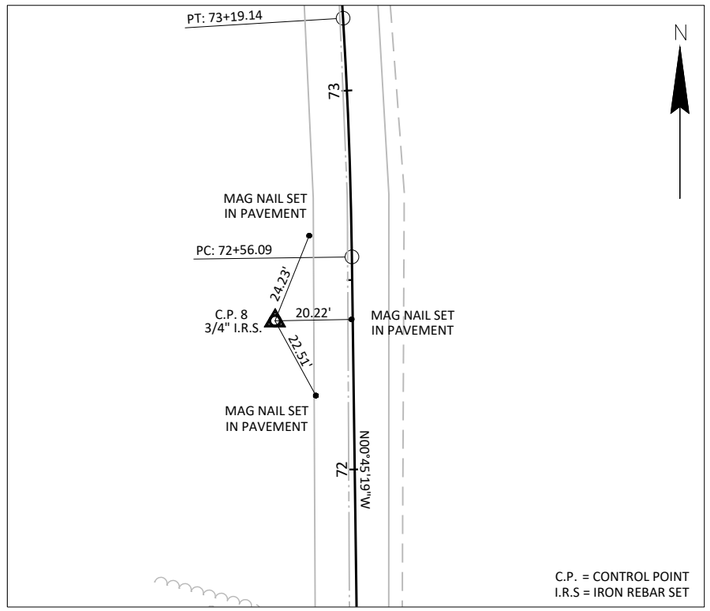
STA. 53+01.42, 36.35' LT
Y = 396,947.81
X = 696,451.29

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONTROL POINT TIES	SHEET	E



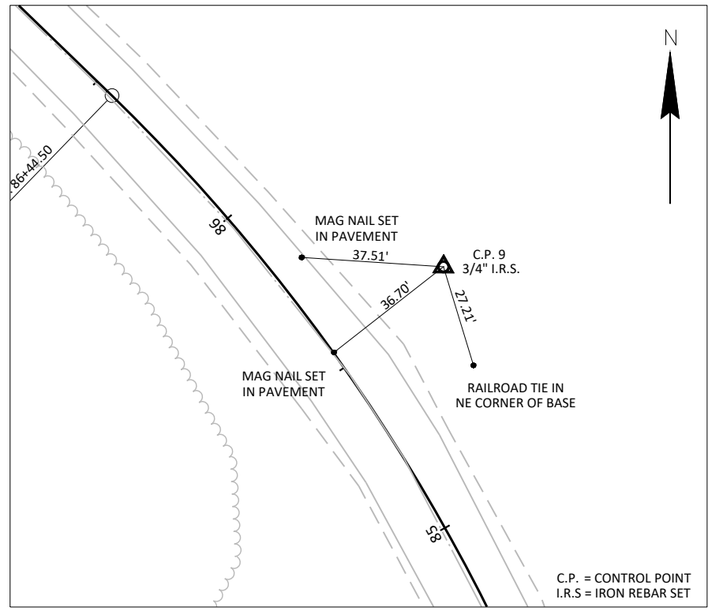
TIES TO C.P.#7

STA. 67+67.59, 31.80' RT
Y = 398,415.38
X = 696,492.52



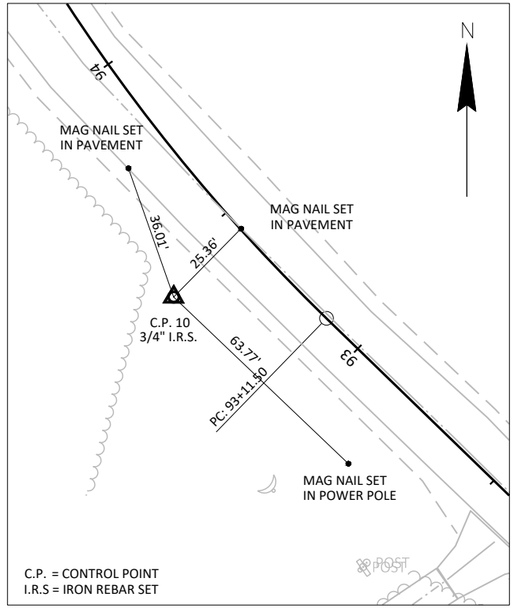
TIES TO C.P.#8

STA. 72+39.52, 20.52' LT
Y = 398,884.89
X = 696,448.07



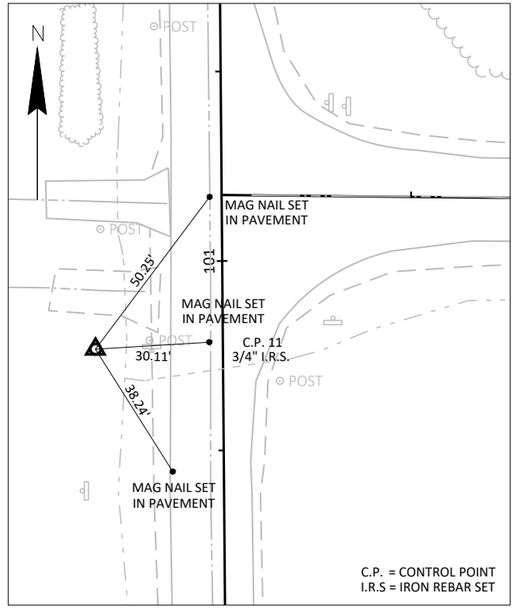
TIES TO C.P.#9

STA. 85+56.25, 36.83' RT
Y = 400,167.77
X = 696,164.82



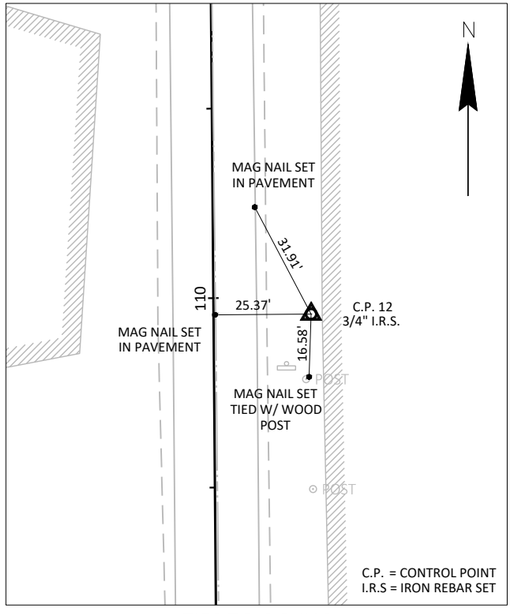
TIES TO C.P.#10

STA. 93+42.80, 25.12' LT
Y = 400,682.73
X = 695,557.97



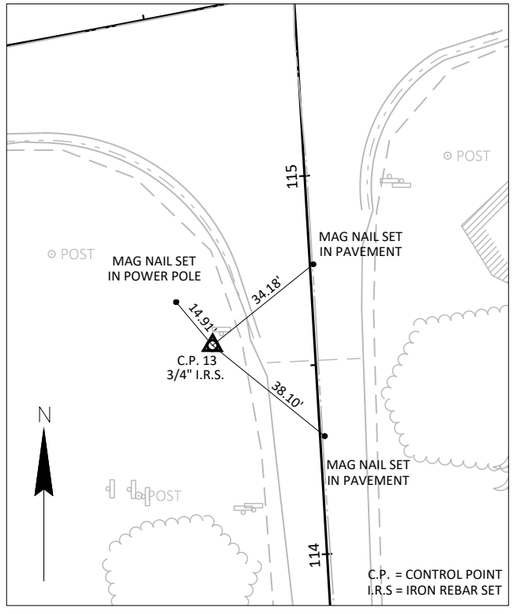
TIES TO C.P.#11

STA. 100+77.00, 33.65' LT
Y = 401,402.08
X = 695,414.10



TIES TO C.P.#12

STA. 109+95.56, 25.76' RT
Y = 402,321.09
X = 695,465.96



TIES TO C.P.#13

STA. 114+56.78, 26.93' LT
Y = 402,780.00
X = 695,394.76

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CONTROL POINT TIES	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\DETAILS\73730070_CONTROL POINTS.DWG
LAYOUT NAME - Layout 2
PLOT DATE : 9/15/2020 1:31 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########

3

CLEARING & GRUBBING

STATION - STATION	LOCATION	CLEARING 201.0105 (STA.)	CLEARING 201.0120 (ID)	GRUBBING 201.0205 (STA.)	GRUBBING 201.0220 (ID)
13+45	MAINLINE, LT.	-	36	-	36
15+00 - 16+00	MAINLINE, RT.	1	-	1	-
16+00 - 18+00	MAINLINE, LT.	2	-	2	-
25+00 - 26+00	MAINLINE, LT.	1	-	1	-
29+00 - 32+00	MAINLINE, LT. & RT.	3	-	3	-
44+00 - 48+00	MAINLINE, LT. & RT.	4	-	4	-
55+00 - 59+00	MAINLINE, RT.	4	-	4	-
66+66	MAINLINE, RT.	-	4	-	4
68+00 - 70+00	MAINLINE, RT.	2	-	2	-
71+00 - 72+00	MAINLINE, LT.	1	-	1	-
77+00 - 79+00	MAINLINE, RT.	2	-	2	-
85+00 - 95+00	MAINLINE, LT.	10	-	10	-
102+20	MAINLINE, LT.	-	9	-	9
102+38	MAINLINE, LT.	-	5	-	5
103+00 - 105+00	MAINLINE, LT. & RT.	2	-	2	-
105+00 - 106+00	MAINLINE, LT.	1	-	1	-
111+00 - 115+00	MAINLINE, LT. & RT.	4	-	4	-
200'A'+00 - 201'A'+00	GOLIATH RD, LT. & RT.	1	-	1	-
300'B'+00 - 302'B'+00	FLAT IRON AVE, LT.	1	-	1	-
302'B'+00 - 303'B'+00	FLAT IRON AVE, LT. & RT.	1	-	1	-
303'B'+00 - 304'B'+00	FLAT IRON AVE, RT.	1	-	1	-
400'C'+00 - 401'C'+00	FLAGSHIP AVE, LT.	1	-	1	-
500'D'+00 - 502'D'+00	FLARE AVE, LT.	2	-	2	-
700'F'+00 - 702'F'+00	F' LINE, LT.	2	-	2	-
	TOTALS =	46	54	46	54

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	DESCRIPTION	203.0100 EACH
11+11	MAINLINE	18" CMP; L=38'	1
17+56	MAINLINE	15" CMP; L=44'	1
33+65	MAINLINE	15" CMP; L=38'	1
34+68	MAINLINE	24" CMP; L=39'	1
41+83	MAINLINE, LT.	15" CMP; L=30'	1
42+50	MAINLINE, LT.	15" CMP; L=30'	1
48+38	MAINLINE	18" CMP; L=55'	1
64+50	MAINLINE	24" CMP; L=46'	1
69+85	MAINLINE	30" CMP; L=82'	1
74+67	MAINLINE	24" CMP; L=41'	1
81+50	MAINLINE, RT.	15" CMP; L=31'	1
82+89	MAINLINE	15" CMP; L=47'	1
91+88	MAINLINE	12" CMP; L=32'	1
100+72	MAINLINE	48" CMP; L=37'	1
100+92	MAINLINE, LT.	15" CMP; L=22'	1
101+16	MAINLINE, LT.	12" CMP; L=22'	1
104+53	MAINLINE	30" CMP; L=35'	1
201'A'+11	GOLIATH RD	18" CMP; L=43'	1
	TOTAL =		18

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 (LF)
114+58 - 115+16	MAINLINE, LT.	100
114+90 - 115+35	MAINLINE, RT.	66
	TOTAL =	166

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

REMOVING OLD STRUCTURE (STA. 25+89)

STATION	LOCATION	DESCRIPTION	203.0200 (LS)	COMMENTS
25+89	MAINLINE	REINFORCED CONCRETE BOX CUVLERT	1	4.2' x 3.2' x 32'
		TOTAL =	1	

REMOVING DELINEATORS AND MARKERS

STATION	LOCATION	204.0180 (EACH)
11+10	MAINLINE, LT.	1
11+12	MAINLINE, RT.	1
25+89	MAINLINE, RT.	1
25+89	MAINLINE, LT.	1
33+60	MAINLINE, LT.	1
33+71	MAINLINE, RT.	1
34+60	MAINLINE, RT.	1
34+73	MAINLINE, LT.	1
48+36	MAINLINE, RT.	1
48+40	MAINLINE, LT.	1
64+49	MAINLINE, RT.	1
64+52	MAINLINE, LT.	1
74+66	MAINLINE, RT.	1
74+69	MAINLINE, LT.	1
82+88	MAINLINE, LT.	1
82+91	MAINLINE, RT.	1
91+82	MAINLINE, RT.	1
91+91	MAINLINE, LT.	1
100+68	MAINLINE, RT.	1
100+79	MAINLINE, LT.	1
104+50	MAINLINE, RT.	1
104+56	MAINLINE, LT.	1
201'A'+10	GOLIATH RD, RT.	1
201'A'+11	GOLIATH RD, LT.	1
	TOTAL =	24

EARTHWORK SUMMARY

CATEGORY	STATION - STATION	LOCATION	(1) 205.0100 COMMON EXCAVATION CUT (2) (CY)	AVAILABLE MATERIAL (CY) (3)	205.0200 ROCK EXCAVATION (CY) (4)	EXPANDED ROCK (CY) FACTOR 1.1 (5)	UNEXPANDED FILL (CY)	EXPANDED FILL (CY) FACTOR 1.25 (6)	MASS ORDINATE +/- (CY) (7)	WASTE (CY)
010	11+00 - 115+27	MAINLINE	38390	38390	1480	1630	19699	22586	15804	15804
	200'A'+00 - 201'A'+18	GOLIATH RD	40	40	-	-	350	438	-398	-398
	299'B'+90 - 304'B'+95	FLAT IRON AVE	6715	6715	-	-	265	331	6384	6384
	400'C'+00 - 404'C'+16	FLAGSHIP AVE	16915	16915	-	-	25	31	16884	16884
	500'D'+18 - 501'D'+50	FLARE AVE	130	130	-	-	155	194	-64	-64
	599'E'+60 - 603'E'+45	STH 21	150	150	-	-	50	63	88	88
	700'F'+13 - 701'F'+80	'F' LINE	800	800	-	-	0	0	800	800
	710'G'+00 - 711'G'+07	'G' LINE	1035	1035	-	-	6	8	1028	1028
	800'H'+00 - 801'H'+35	'H' LINE	110	110	-	-	0	0	110	110
	900'I'+31 - 901'I'+35	'I' LINE	515	515	-	-	0	0	515	515
	SUBTOTALS =		64800	64800	1480	1630	20550	23650	41150	41150
	TOTALS =		64800	64800	1480	1630	20550	23650	41150	41150

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.) ROCK EXCAVATION. ITEM NUMBER 205.0200
5.) EXPANDED ROCK FACTOR = 1.1
6.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL - (ROCK *ROCK FACTOR))*1.25
7.) THE MASS ORDINATE+ OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY

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)
11+00 - 115+27	MAINLINE	920	34,370
200'A'+00 - 201'A'+18	GOLIATH RD	20	410
299'B'+90 - 304'B'+95	FLAT IRON AVE	60	1,360
400'C'+00 - 404'C'+16	FLAGSHIP AVE	75	1230
500'D'+18 - 501'D'+50	FLARE AVE	30	450
599'E'+60 - 603'E'+45	STH 21	40	370
700'F'+13 - 701'F'+80	'F' LINE	145	-
710'G'+00 - 711'G'+07	'G' LINE	65	-
-	P.E. / F.E.	875	-
	TOTALS =	2230	38,190

CONCRETE DRIVEWAY 6-INCH

STATION	LOCATION	416.0160 (SY)
92+34	MAINLINE, LT.	60
	TOTAL =	60

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 (SY)
11+80	MAINLINE, LT.	12
11+80	MAINLINE, RT.	11
15+50	MAINLINE, RT.	11
16+00	MAINLINE, LT.	12
22+50	MAINLINE, RT.	11
44+50	MAINLINE, LT.	11
59+50	MAINLINE, RT.	11
68+50	MAINLINE, RT.	20
71+50	MAINLINE, LT.	16
71+50	MAINLINE, RT.	16
77+50	MAINLINE, RT.	11
84+50	MAINLINE, LT.	12
111+20	MAINLINE, LT.	13
111+20	MAINLINE, RT.	13
303'B'+89	FLAT IRON AVE, RT.	18
	TOTAL =	198

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

HMA PAVEMENT

STATION - STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING (TON)	CATEGORY 010 455.0605 TACK COAT (GAL)	CATEGORY 020 455.0605 TACK COAT (GAL)	CATEGORY 010 460.5223 HMA PAVEMENT 3LT58-28S (TON)	CATEGORY 020 460.5223 HMA PAVEMENT 3LT58-28S (TON)	CATEGORY 010 460.5224 HMA PAVEMENT 4LT58-28S (TON)	CATEGORY 020 460.5224 HMA PAVEMENT 4LT58-28S (TON)	465.0105 ASPHALTIC SURFACE (TON)
11+00 - 115+27	MAINLINE	-	1565	-	3935	-	3061	-	6
11+00 - 115+27	MAINLINE SHOULDER	-	-	460	-	1165	-	905	-
200'A'+00 - 201'A'+18	GOLIATH RD	-	25	-	65	-	50	-	-
299'B'+90 - 304'B'+95	FLAT IRON AVE	-	72	-	180	-	143	-	-
400'C'+00 - 404'C'+16	FLAGSHIP AVE	-	68	-	170	-	133	-	-
500'D'+18 - 501'D'+50	FLARE AVE	-	28	-	65	-	54	-	-
599'E'+60 - 603'E'+45	STH 21	-	12	-	30	-	23	-	-
700'F'+13 - 701'F'+80	'F' LINE	-	-	-	-	-	53	-	-
710'G'+00 - 711'G'+07	'G' LINE	-	-	-	-	-	23	-	-
-	P.E. / F.E. / C.E.	-	-	-	-	-	55	-	-
-	PROJECT	2550	-	-	-	-	-	-	-
	SUBTOTALS =	2550	1770	460	4445	1165	3595	905	6
	TOTALS =	2550	2230		5610		4500		6

RUMBLE STRIPS

STATION - STATION	LOCATION	CATEGORY 020 SPV.0090.01 TWO LANE RURAL CENTER LINE, SINUSOIDAL, RUMBLE STRIP (LF)	CATEGORY 020 SPV.0090.02 TWO LANE RURAL SHOULDER, SINUSOIDAL, RUMBLE STRIP (LF)
15+32 - 69+15.45	MAINLINE	5383	-
15+32 - 114+62.05	MAINLINE, LT.	-	9930
15+32 - 114+86.76	MAINLINE, RT.	-	9954
72+14.07 - 115+23.75	MAINLINE	4309	-
	TOTALS=	9692	19884

SLOPE PAVING CRUSHED AGGREGATE

STATION - STATION	LOCATION	604.0500 (SY)
112+10 - 112+40	MAINLINE	180
	TOTAL =	180

CULVERT PIPE

STATION	LOCATION	520.3142 CULVERT PIPE CLASS III 42-INCH (LF)	520.3148 CULVERT PIPE CLASS III 48-INCH (LF)	520.3318 CULVERT PIPE CLASS III-A 18-INCH (LF)	520.3324 CULVERT PIPE CLASS III-A 24-INCH (LF)	520.3330 CULVERT PIPE CLASS III-A 30-INCH (LF)	520.4118 CULVERT PIPE CLASS IV 18-INCH (LF)	520.4130 CULVERT PIPE CLASS IV 30-INCH (LF)	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH (EACH)	520.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH (EACH)	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30-INCH (EACH)	521.0348 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 48-INCH 4 TO 1 (EACH)	521.0442 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 42-INCH 6 TO 1 (EACH)	521.0448 APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 48-INCH 6 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)
11+11*	MAINLINE	-	-	-	-	-	-	50	-	-	2	-	-	-	-	5	2	1
17+56	MAINLINE	-	-	-	90	-	-	-	-	2	-	-	-	-	-	3	2	1
34+50*	MAINLINE	-	66	-	-	-	-	-	-	-	-	1	-	1	-	10	2	1
41+83	MAINLINE, LT	-	-	30	-	-	-	-	2	-	-	-	-	-	-	2	-	-
42+49*	MAINLINE, LT.	-	-	-	-	-	22	-	2	-	-	-	-	-	-	2	-	-
48+38	MAINLINE	-	-	-	88	-	-	-	-	2	-	-	-	-	-	3	2	1
53+25	MAINLINE, RT	-	-	44	-	-	-	-	2	-	-	-	-	-	-	2	-	-
54+99	MAINLINE, RT	-	-	36	-	-	-	-	2	-	-	-	-	-	-	2	-	-
59+00	MAINLINE, LT	-	-	36	-	-	-	-	2	-	-	-	-	-	-	2	-	-
62+50	MAINLINE, RT	-	-	32	-	-	-	-	2	-	-	-	-	-	-	2	-	-
64+50	MAINLINE	-	-	-	-	66	-	-	-	-	2	-	-	-	-	5	2	1
69+64	MAINLINE	58	-	-	-	-	-	-	-	-	-	-	2	-	-	8	2	1
69+72	MAINLINE	58	-	-	-	-	-	-	-	-	-	-	2	-	-	8	2	1
69+80	MAINLINE	58	-	-	-	-	-	-	-	-	-	-	2	-	-	8	2	1
76+74	MAINLINE, RT	-	-	32	-	-	-	-	2	-	-	-	-	-	-	2	-	-
81+50	MAINLINE, RT	-	-	26	-	-	-	-	2	-	-	-	-	-	-	2	-	-
81+54	MAINLINE, LT	-	-	34	-	-	-	-	2	-	-	-	-	-	-	2	-	-
82+50	MAINLINE, LT	-	-	32	-	-	-	-	2	-	-	-	-	-	-	2	-	-
82+89	MAINLINE	-	-	-	66	-	-	-	-	2	-	-	-	-	-	3	2	1
91+88	MAINLINE	-	-	-	70	-	-	-	-	2	-	-	-	-	-	3	2	1
92+34	MAINLINE, LT	-	-	58	-	-	-	-	2	-	-	-	-	-	-	2	-	-
95+00	MAINLINE, LT	-	-	40	-	-	-	-	2	-	-	-	-	-	-	2	-	-
101+04	MAINLINE, LT.	-	-	54	-	-	-	-	2	-	-	-	-	-	-	2	-	-
101+82	MAINLINE, LT	-	-	28	-	-	-	-	2	-	-	-	-	-	-	2	-	-
103+79	MAINLINE, LT.	-	-	38	-	-	-	-	2	-	-	-	-	-	-	2	-	-
104+53	MAINLINE	-	-	-	-	54	-	-	-	-	2	-	-	-	-	5	2	1
106+98	MAINLINE, LT.	-	-	22	-	-	-	-	2	-	-	-	-	-	-	2	-	-
200'A'+80	GOLIATH RD	-	-	-	76	-	-	-	-	-	-	-	-	-	2	3	2	1
700'F'+35	'F' LINE	-	-	32	-	-	-	-	2	-	-	-	-	-	-	2	-	-
701'F'+57	'F' LINE	-	-	40	-	-	-	-	2	-	-	-	-	-	-	2	-	-
	UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-
	TOTALS =	174	66	614	390	120	22	50	36	8	6	1	6	1	2	127	24	12

PIPE SIZE	MINIMUM THICKNESS (INCHES) STEEL	ALUMIINUM
18-INCH	0.064	0.060
24-INCH	0.064	0.075
30-INCH	0.079	0.075
42-INCH	0.109	0.105
48-INCH	0.109	0.105

* REDUCED SUBGRADE COVER
**MORE LISTED ELSEWHERE

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	MISCELLANEOUS QUANTITIES	SHEET	E

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

PIPE ARCHES

STATION	LOCATION	521.0549 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 49X33-INCH 4 TO 1 (EACH)	521.0564 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 64X43-INCH 4 TO 1 (EACH)	521.0649 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 49X33-INCH 6 TO 1 (EACH)	521.0657 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 57X38-INCH 6 TO 1 (EACH)	521.0664 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 64X43-INCH 6 TO 1 (EACH)	521.1709 APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 42x29-INCH 4 TO 1 (EACH)	521.3742 PIPE ARCH CORRUGATED STEEL 42X29-INCH (LF)	521.3749 PIPE ARCH CORRUGATED STEEL 49X33-INCH (LF)	521.3757 PIPE ARCH CORRUGATED STEEL 57X38-INCH (LF)	521.3764 PIPE ARCH CORRUGATED STEEL 64X43-INCH (LF)	521.3783 PIPE ARCH CORRUGATED STEEL 83X57-INCH (LF)	SPV.0090.03 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 83X57-INCH 4 TO 1 (EACH)	SPV.0090.04 APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 83X57-INCH 6 TO 1 (EACH)	**628.7555 CULVERT PIPE CHECKS (EACH)	**633.5200 MARKERS CULVERT END (EACH)	**650.6000 CONSTRUCTION STAKING CULVERT PIPES (EACH)
25+81	MAINLINE	-	-	-	2	-	-	-	-	56	-	-	-	-	4	2	1
25+89	MAINLINE	-	-	-	2	-	-	-	-	56	-	-	-	-	5	2	1
25+97	MAINLINE	-	-	-	2	-	-	-	-	56	-	-	-	-	4	2	1
74+67	MAINLINE	1	-	1	-	-	-	-	54	-	-	-	-	-	10	2	1
100+56	MAINLINE	-	1	-	-	1	-	-	-	-	54	-	-	-	15	2	1
100+65	MAINLINE	-	-	-	-	-	-	-	-	-	-	58	-	-	19	2	1
100+75	MAINLINE	-	-	-	-	2	-	-	-	-	62	-	1	1	15	2	1
403'C'+85	FLAGSHIP AVE	-	-	-	-	-	2	88	-	-	-	-	-	-	13	2	1
	UNDISTRIBUTED	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-
	TOTALS =	1	1	1	6	3	2	88	54	168	116	58	1	1	107	16	8

**MORE LISTED ELSEWHERE

MINIMUM THICKNESS (INCHES)	
PIPE SIZE	STEEL
42X29-INCH	0.079
49X33-INCH	0.109
57X38-INCH	0.109
64X43-INCH	0.109
83X57-INCH	0.109

CONCRETE CURB & GUTTER

STATION-STATION	LOCATION	601.0415 6-INCH SLOPED 30-INCH TYPE J (LF)	650.5500 CONSTRUCTION STAKING CURB & GUTTER (LF)
11+80 - 16+00	MAINLINE, LT.	420	420
11+80 - 15+50	MAINLINE, RT.	370	370
17+73 - 22+50	MAINLINE, RT.	477	477
44+50 - 47+50	MAINLINE, LT.	300	300
56+40 - 59+50	MAINLINE, RT.	310	310
66+18 - 68+50	MAINLINE, RT.	232	232
69+77 - 71+50	MAINLINE, LT. & RT.	346	346
77+50 - 79+50	MAINLINE, RT.	200	200
84+50 - 88+50	MAINLINE, LT.	400	400
111+35 - 114+52	MAINLINE, LT.	317	317
111+35 - 114+77	MAINLINE, RT.	342	342
114+52 - 115+17	MAINLINE, LT.	90	90
114+77 - 115+36	MAINLINE, RT.	70	70
300'B'+00 - 303'B'+83	FLAT IRON, RT.	383	383
	TOTALS =	4257	4257

SLOPE PAVING CRUSHED AGGREGATE

STATION - STATION	LOCATION	604.0500 (SY)
112+10 - 112+40	MAINLINE	180
	TOTAL =	180

RIPRAP & GEOTEXTILE

STATION - STATION	LOCATION	606.0300 RIPRAP HEAVY (CY)	645.0120 GEOTEXTILE TYPE HR (SY)	606.0100 RIPRAP LIGHT (CY)	645.0130 GEOTEXTILE TYPE R (SY)
11+11	MAINLINE, LT.	7	22	-	-
17+56	MAINLINE, LT.	5	18	-	-
25+89	MAINLINE, LT.	50	100	-	-
34+50	MAINLINE, RT.	7	22	-	-
48+38	MAINLINE, RT.	5	18	-	-
64+50	MAINLINE, RT.	7	22	-	-
69+00	MAINLINE, RT.	15	40	-	-
69+72	MAINLINE, RT.	150	275	-	-
74+67	MAINLINE, RT.	12	32	-	-
82+89	MAINLINE, RT.	5	18	-	-
91+88	MAINLINE, RT.	5	18	-	-
100+56	MAINLINE, RT.	10	27	-	-
100+75	MAINLINE, RT.	10	27	-	-
104+53	MAINLINE, RT.	7	22	-	-
200'A'+80	GOLIATH RD, RT.	5	18	-	-
302'B'+20	FLAT IRON, LT	4	14	-	-
303'B'+00	FLAT IRON, LT	-	-	23	80
304'B'+50	FLAT IRON, RT	4	14	-	-
403'C'+85	FLAGSHIP AVE, LT.	5	18	-	-
	UNDISTRIBUTED	87	175	6	20
	TOTALS =	400	900	29	100

STORM SEWER PIPE

PIPE NUMBER	STRUCTUR	STRUCTURE	ELEVATION	ELEVATION	SLOPE (%)	608.0412 REINFORCED CONCRETE PIPE CLASS IV STORM SEWER 12-INCH (LF)	608.0418 REINFORCED CONCRETE PIPE CLASS IV STORM SEWER 18-INCH (LF)	608.0318 REINFORCED CONCRETE PIPE CLASS III STORM SEWER 18-INCH (LF)	INFORMATIONAL PURPOSES ONLY JOINT TIES (EACH)
P-100	I - 100	I - 101	1013.12	1011.89	18.74	10	-	-	-
P-101	I - 101	EW - 1	1011.79	1010.48	3.63	-	38	-	6
P102	I - 102	EW - 2	1001.31	995.55	9.89	-	-	60	6
		TOTALS =				10	38	60	12

NOTES:
PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURES.
ALL NEW CONCRETE PIPE SHALL HAVE JOINT TIES INSTALLED ON THE LAST TWO PIPE-TO-ENDWALL JOINT AT BOTH THE INLET AND DISCHARGE ENDS.
THE NUMBER OF TIES REQUIRED IS LISTED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES ARE A NON-BID ITEM; THE COST SHALL BE INCLUDED IN THE LINEAR FOOT OF PIPE.

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES

STRUCTURE NUMBER	STATION	LOCATION	RIM ELEVATION (FT.)	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH (EACH)	611.0630 INLET COVERS TYPE HM-GJ (EACH)	611.0645 INLET COVERS TYPE MS-A (EACH)	611.3230 INLETS 2x3-FT (LF)	611.3901 INLETS MEDIAN 1 GRATE (EACH)	STRUCTURE DEPTH (FT.)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)	650.4000 CONSTRUCTION STAKING STORM SEWER (EACH)
I - 100	301'B'+78.50	11.17 RT.	1015.79	-	1	-	1	-	1.67	1	1	1
I - 101	301'B'+88.50	11.17 RT.	1015.00	-	1	-	1	-	2.21	1	1	1
I - 102	303'B'+40	18.67 RT.	1003.69	-	-	1	-	1	2.38	1	-	1
EW - 1	302'B'+06.64	20.55 LT.	-	1	-	-	-	-	-	-	-	1
EW - 2	303'B'+83.41	47.34 RT.	-	1	-	-	-	-	-	-	-	1
		TOTALS =		2	2	1	2	1		3	2	5

NOTES:
STATION AND OFFSET OF CURB INLET STRUCTURES ARE MEASURED TO FLANGE OF GUTTER.
ALL RIM ELEVATIONS ARE MEASURED TO THE FLANGE OF THE INLET.
STRUCTURE DEPTH (INLETS 2x3-FT.) = RIM ELEVATION - INVERT LOWEST PIPE - 6 INCHES (RINGS) - 6 INCHES (CASTING HEIGHT)
STRUCTURE DEPTH (INLETS MEDIAN 1 GRATE) = RIM ELEVATION - INVERT LOWEST PIPE

SILT FENCE

STATION - STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)
11+11 - 12+50	MAINLINE, RT.	140	560
11+00 - 11+75	MAINLINE, LT	90	360
12+00 - 14+00	MAINLINE, LT	210	840
14+00 - 15+75	MAINLINE, LT	180	720
14+75 - 17+75	MAINLINE, RT.	325	1300
16+00 - 19+00	MAINLINE, LT	325	1300
19+00 - 22+00	MAINLINE, LT	290	1160
35+00 - 39+00	MAINLINE, RT.	385	1540
41+50 - 45+00	MAINLINE, RT.	365	1460
46+50 - 50+50	MAINLINE, RT.	425	1700
55+50 - 56+50	MAINLINE, RT.	120	480
57+50 - 59+00	MAINLINE, LT	140	560
60+50 - 64+50	MAINLINE, LT	420	1680
62+50 - 66+50	MAINLINE, RT.	390	1560
71+50 - 76+50	MAINLINE, RT.	555	2220
77+50 - 80+50	MAINLINE, LT	300	1200
81+50 - 101+00	MAINLINE, RT.	2025	8100
114+50 - 115+25	MAINLINE, LT	195	780
114+50 - 115+25	MAINLINE, RT.	195	780
200'A'+00 - 200'A'+75	GOLIATH RD, RT.	85	340
400'C'+00 - 404'C'+00	FLAGSHIP AVE, LT.	280	1120
	UNDISTIBUTED	1860	7440
	TOTALS =	9300	37200

FINISHING ITEMS

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	*629.0210 FERTILIZER TYPE B (CWT)	*630.0120 SEEDING MIXTURE NO. 20 (LB)	**630.0160 SEEDING MIXTURE NO. 60 (LB)	630.0200 SEEDING TEMPORARY (LB)	630.0500 SEED WATER (MGAL)
11+00 - 115+27	MAINLINE	67990	49600	49.0	2086	4	-	1733
200'A'+00 - 201'A'+18	GOLIATH RD	390	650	1.0	22	-	-	18
299'B'+90 - 304'B'+95	FLAT IRON AVE	3600	550	3.0	126	-	-	105
400'C'+00 - 404'C'+16	FLAGSHIP AVE	5010	4140	3.0	127	-	-	104
500'D'+18 - 501'D'+50	FLARE AVE	480	590	1.0	21	-	-	17
599'E'+60 - 603'E'+45	STH 21	300	530	1.0	18	-	-	15
700'F'+16 - 701'F'+80	'F' LINE	690	-	-	-	-	-	-
710'F'+00 - 711'F'+07	'G' LINE	580	-	-	-	-	-	-
UNDISTRIBUTED	PROJECT	19760	14020	15.0	600	1	750	498
	TOTALS=	98800	70080	73.0	3000	5	750	2490

* NOTE: 'F' AND 'G' LINE FERTILIZER TYPE B AND SEEDING MIXTURE NO. 20 QUANTITIES ARE INCLUDED IN FLAT IRON AVE QUANTIT
**NOTE: USE SEED MIXTURE NO. 60 IN AREAS ADJACENT TO EXISTING WETLAND (STA 95+50-97+50). DO NOT USE FERTILIZER IN WETLAND AREAS.

WATER

LOCATION	624.0100 (MGAL)
PROJECT	640
TOTALS =	640

MOBILIZATION EROSION CONTROL

PROJECT	628.1905 MOBILIZATION EROSION CONTROL (EACH)	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL (EACH)
5496-00-74	11	8
TOTALS =	11	8

SOD LAWN

STATION	LOCATION	631.1000 (SY)
11+80	MAINLINE, LT.	10
11+80	MAINLINE, RT.	10
15+50	MAINLINE, RT.	10
16+00	MAINLINE, LT.	10
22+50	MAINLINE, RT.	10
71+50	MAINLINE, LT.	10
71+50	MAINLINE, RT.	10
84+50	MAINLINE, LT.	10
111+20	MAINLINE, LT.	10
111+20	MAINLINE, RT.	10
	UNDISTRIBUTED	25
	TOTAL =	125

EROSION MAT

STATION - STATION	LOCATION	628.2002 EROSION MAT CLASS I TYPE A SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.2023 EROSION MAT CLASS II TYPE B SY
18+49 - 20+79	MAINLINE, RT.	855	-	-
28+71 - 30+06	MAINLINE, LT.	-	660	-
32+00 - 44+50	MAINLINE, LT.	-	4585	-
39+00 - 41+35	MAINLINE, RT.	-	885	-
44+25 - 47+50	MAINLINE, LT.	1230	-	-
50+00 - 51+00	MAINLINE, LT.	-	510	-
51+00 - 52+00	MAINLINE, LT.	-	-	415
50+50 - 53+17	MAINLINE, RT.	-	1045	-
52+00 - 53+57	MAINLINE, LT.	-	510	-
56+01 - 60+50	MAINLINE, LT.	-	1460	-
59+50 - 63+00	MAINLINE, RT.	-	1055	-
66+00 - 69+98	MAINLINE, LT.	-	1625	-
76+83 - 79+02	MAINLINE, RT.	965	-	-
82+45 - 93+12	MAINLINE, LT.	-	345	-
85+47 - 87+71	MAINLINE, LT.	1030	-	-
94+04 - 94+91	MAINLINE, LT.	-	495	-
300'B'+00 - 303'B'+65	FLAT IRON AVE, LT	-	-	1575
303B'+65 - 304'B'+50	FLAT IRON AVE, LT	-	715	-
301'B'+98 - 304'B'+50	FLAT IRON AVE, RT	-	790	-
	TREATMENT AT PE/FE CULVERTS	-	120	-
	UNDISTRIBUTED	1020	3700	500
	TOTALS =	5100	18500	2490

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	MISCELLANEOUS QUANTITIES	SHEET	E

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

3

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 (LF)
22+00	MAINLINE, LT	10
23+00	MAINLINE, LT.	10
23+00	MAINLINE, RT	10
25+00	MAINLINE, LT.	10
25+00	MAINLINE, RT.	10
28+75	MAINLINE, RT	10
29+00	MAINLINE, RT.	10
29+50	MAINLINE, LT	10
30+00	MAINLINE, LT.	10
30+00	MAINLINE, RT.	10
32+00	MAINLINE, RT	10
32+50	MAINLINE, LT.	10
34+00	MAINLINE, LT.	10
34+00	MAINLINE, RT	10
34+50	MAINLINE, LT.	10
36+00	MAINLINE, LT.	10
37+00	MAINLINE, LT.	10
37+50	MAINLINE, LT.	10
38+25	MAINLINE, LT.	10
38+75	MAINLINE, LT.	10
39+00	MAINLINE, RT	10
39+25	MAINLINE, LT.	10
39+50	MAINLINE, RT	10
39+25	MAINLINE, LT.	10
40+00	MAINLINE, LT.	10
40+00	MAINLINE, RT	10
40+50	MAINLINE, LT.	10
40+50	MAINLINE, RT.	10
41+00	MAINLINE, LT.	10
41+00	MAINLINE, RT	10
	SUBTOTAL =	300

STATION	LOCATION	628.7504 (LF)
42+00	MAINLINE, LT.	10
43+00	MAINLINE, LT.	10
44+00	MAINLINE, LT.	10
46+00	MAINLINE, RT	10
48+00	MAINLINE, LT.	10
49+00	MAINLINE, LT.	10
50+75	MAINLINE, LT.	10
51+00	MAINLINE, LT.	10
51+00	MAINLINE, RT	10
51+50	MAINLINE, LT.	10
51+50	MAINLINE, RT	10
51+75	MAINLINE, LT.	10
52+00	MAINLINE, LT.	10
52+00	MAINLINE, RT	10
52+50	MAINLINE, LT.	10
52+50	MAINLINE, RT	10
53+00	MAINLINE, LT.	10
54+00	MAINLINE, RT	10
55+00	MAINLINE, LT.	10
56+50	MAINLINE, LT.	10
57+00	MAINLINE, LT.	10
58+25	MAINLINE, LT.	10
60+00	MAINLINE, LT.	10
60+00	MAINLINE, RT	10
60+50	MAINLINE, RT.	10
61+00	MAINLINE, RT	10
62+00	MAINLINE, RT	10
66+00	MAINLINE, LT.	10
66+50	MAINLINE, LT.	10
67+00	MAINLINE, LT.	10
	SUBTOTAL =	300

STATION	LOCATION	628.7504 (LF)
68+75	MAINLINE, LT.	10
69+25	MAINLINE, LT.	10
69+50	MAINLINE, LT.	10
72+00	MAINLINE, LT.	10
73+00	MAINLINE, LT.	10
74+50	MAINLINE, RT.	10
76+50	MAINLINE, LT.	10
80+00	MAINLINE, RT	10
81+00	MAINLINE, LT.	10
83+00	MAINLINE, LT.	10
84+00	MAINLINE, LT.	10
89+00	MAINLINE, LT.	10
91+00	MAINLINE, LT.	10
93+00	MAINLINE, LT.	10
94+25	MAINLINE, LT.	10
94+75	MAINLINE, LT.	10
95+50	MAINLINE, LT.	10
97+00	MAINLINE, LT.	10
99+00	MAINLINE, LT.	10
100+50	MAINLINE, LT.	10
103+00	MAINLINE, LT.	10
103+50	MAINLINE, RT.	10
105+00	MAINLINE, LT.	10
105+00	MAINLINE, RT.	10
107+00	MAINLINE, RT.	10
108+00	MAINLINE, LT.	10
108+75	MAINLINE, RT.	10
110+00	MAINLINE, LT.	10
110+00	MAINLINE, RT.	10
111+00	MAINLINE, LT.	10
111+00	MAINLINE, RT.	10
	SUBTOTAL =	310

STATION	LOCATION	628.7504 (LF)
200'A'+50	GOLIATH RD, LT.	10
300'B'+50	FLAT IRON AVE, LT.	10
301'B'+00	FLAT IRON AVE, LT.	10
301'B'+25	FLAT IRON AVE, LT.	10
301'B'+75	FLAT IRON AVE, LT.	10
302'B'+00	FLAT IRON AVE, LT.	10
302'B'+25	FLAT IRON AVE, LT.	10
302'B'+50	FLAT IRON AVE, LT.	10
302'B'+75	FLAT IRON AVE, LT.	10
303'B'+00	FLAT IRON AVE, LT.	10
304'B'+00	FLAT IRON AVE, LT.	10
304'B'+50	FLAT IRON AVE, LT.	10
400'C'+50	FLAGSHIP AVE, RT.	10
402'C'+50	FLAGSHIP AVE, RT.	10
403'C'+50	FLAGSHIP AVE, RT.	10
501'D'+25	FLARE AVE, LT.	10
501'D'+25	FLARE AVE, RT.	10
701'F'+00	'F' LINE, LT.	10
710'G'+50	'G' LINE, LT.	10
	UNDISTRIBUTED	280
	SUBTOTAL =	470
	TOTAL =	1380

CONSTRUCTION STAKING

STATION - STATION	LOCATION	CONSTRUCTION STAKING 650.4500 SUBGRADE (LF)	650.5000 BASE (LF)	650.9910 SUPPLEMENTAL CONTROL (01.7373-00-70) (LS)	650.9920 SLOPE STAKES (LF)
11+00 - 115+27	MAINLINE	10427	10427	-	10427
200'A'+00 - 201'A'+18	GOLIATH RD	118	118	-	118
299'B'+90 - 304'B'+95	FLAT IRON AVE	505	505	-	505
400'C'+00 - 404'C'+16	FLAGSHIP AVE	416	416	-	416
500'D'+18 - 501'D'+50	FLARE AVE	132	132	-	132
599'E'+60 - 603'E'+45	STH 21	385	385	-	385
-	PROJECT	-	-	1	-
	TOTALS =	11983	11983	1	11983

TRAFFIC CONTROL

LOCATION	643.0300 DRUMS (DAY)	643.0420 BARRICADES TYPE III (DAY)	643.0705 WARNING LIGHTS TYPE A (DAY)	643.0900 SIGNS (DAY)	643.5000 TRAFFIC CONTROL (EACH)
MAINLINE	-	1000	1430	1150	-
GOLIATH RD	-	720	860	290	-
FLAT IRON AVE	-	720	860	430	-
FLAGSHIP AVE	-	720	860	430	-
FLARE AVE	-	720	860	430	-
STH 21	2150	720	860	1150	-
PROJECT	-	-	-	-	1
TOTALS =	2150	4600	5730	3880	1

TEMPORARY STONE DITCH CHECKS

STATION	LOCATION	SPV.0035.01 (CY)
11+80	MAINLINE, LT	0.6
11+80	MAINLINE, RT	0.6
15+50	MAINLINE, RT	0.6
16+00	MAINLINE, LT	0.6
22+50	MAINLINE, RT	0.6
44+50	MAINLINE, LT	0.6
59+50	MAINLINE, RT	0.6
68+40	MAINLINE, RT	0.6
71+50	MAINLINE, LT	0.6
71+50	MAINLINE, RT	0.6
77+50	MAINLINE, RT	0.6
84+50	MAINLINE, LT	0.6
111+35	MAINLINE, LT	0.6
111+35	MAINLINE, RT	0.6
301'B'+80	FLAT IRON AVE, RT	0.6
303'B'+80	FLAT IRON AVE, RT	0.6
-	UNDISTRIBUTED	2.4
	TOTAL =	12.0

PAVEMENT MARKING

STATION - STATION	LOCATION	DESCRIPTION	MARKING LINE 646.1020 EPOXY 4-INCH YELLOW SOLID (LF)	WHITE SOLID (LF)	WHITE DASHED (LF)	646.6120 STOP LINE EPOXY 18-INCH (LF)
11+00 - 69+15	MAINLINE	DOUBLE YELLOW	11630	-	-	-
72+14 -115+23	MAINLINE	DOUBLE YELLOW	8618	-	-	-
11+00 - 99+95	MAINLINE, RT.	WHITE EDGELINE	-	8875	-	-
99+95 - 100+55	MAINLINE, RT.	WHITE EDGELINE	-	-	15	-
101+81 - 114+87	MAINLINE, RT.	WHITE EDGELINE	-	1306	-	-
11+00 - 27+98	MAINLINE, LT.	WHITE EDGELINE	-	1699	-	-
29+26 - 32+40	MAINLINE, LT.	WHITE EDGELINE	-	322	-	-
32+40 - 33+78	MAINLINE, LT.	WHITE EDGELINE	-	-	36	-
33+78 - 67+16	MAINLINE, LT.	WHITE EDGELINE	-	3346	-	-
68+52 - 68+88	MAINLINE, LT.	WHITE EDGELINE	-	-	9	-
68+88 - 114+62	MAINLINE, LT.	WHITE EDGELINE	-	4574	-	-
115+23	MAINLINE, RT.	STOP BAR	-			27
		SUBTOTALS =	20248	20122	60	27
		TOTALS=		40430		27

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 SAWING ASPHALT (LF)	COMMENTS
11+00	MAINLINE	20	
41+83	MAINLINE, LT	14	
42+49	MAINLINE, LT	11	
66+38	MAINLINE, RT	17	
101+16	MAINLINE, LT	10	
101+82	MAINLINE, LT	10	
200'A'+00	GOLIATH RD	18	
300'B'+00	FLAT IRON AVE	32	
300'B'+35	FLAT IRON AVE, RT	24	
302'B'+20	FLAT IRON AVE, RT	17	
303'B'+65	FLAT IRON AVE, LT ('F' LINE)	18	701'F'+80
303'B'+65	FLAT IRON AVE, RT ('G' LINE)	12	710'G'+00
400'C'+00	FLAGSHIP AVE	20	
501'D'+50	FLARE AVE	20	
599'E'+60 - 603'E'+45	STH 21, RT.	390	SAWCUT AT THE END OF CTH ET AND RIGHT EDGE OF STH 21
	TOTAL=	633	

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
8-08R	79+20	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	-	-	-	-	-	-	1	1	-
8-09	80+40	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
8-10	80+40	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	8-09
8-11	81+00	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
8-12	81+00	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	40	18X18	-	2.25	-	-	-	-	-	8-11
9-00	90+00	MAINLINE	LEFT	W1-2R	RIGHT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
9-01	90+00	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	9-00
9-02	89+50	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
9-03	89+50	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	9-02
9-04R	89+50	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	-	-	-	-	-	-	1	1	-
9-05R	89+50	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	-	-	9-04R
10-00	93+60	MAINLINE	RIGHT	W2-2	T - INTERSECTION	-	30X30	-	6.25	-	1	-	-	-	-
11-00R	99+30	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	-	-	-	-	-	-	1	1	-
11-01R	99+30	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	1	-	11-00R
11-02	100+50	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
11-03	100+50	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	11-02
11-04R	500'D'+30	FLARE AVE	LEFT	R1-1	STOP	-	-	-	-	-	-	-	1	1	-
11-05	500'D'+30	FLARE AVE	LEFT	R1-1	STOP	-	30X30	5.18	-	-	1	-	-	-	-
11-06R	500'D'+25	FLARE AVE	LEFT	D11-10	ATV ROUTE	-	-	-	-	-	-	-	1	1	-
11-07	500'D'+30	FLARE AVE	LEFT	D11-10	ATV ROUTE	-	24X18	3.00	-	1	-	-	-	-	-
11-08	104+75	MAINLINE	RIGHT	W12-2	LOW CLEARANCE	14'0"	36X36	-	9.00	-	-	1	-	-	-
11-09R	106+60	MAINLINE	RIGHT	W12-2	LOW CLEARANCE	13'6"	-	-	-	-	-	-	1	1	-
12-00	107+50	MAINLINE	RIGHT	W3-1	STOP AHEAD	-	36X36	-	9.00	-	-	1	-	-	-
12-01	108+75	MAINLINE	LEFT	W2-2	T - INTERSECTION	-	30X30	-	6.25	-	1	-	-	-	-
12-02R	109+85	MAINLINE	RIGHT	W3-1	STOP AHEAD	-	-	-	-	-	-	-	1	1	-
12-03	112+10	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
12-04	112+30	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
12-05	112+20	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
12-06	112+45	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
13-00	601'E'+05	STH 21	RIGHT	J13-2	M1-5A, M6-1; M1-5A, M6-1	M, LEFT ARROW; ET, RIGHT ARROW	48X45	15.00	-	-	-	1	-	-	-
13-01R	601'E'+05	STH 21	RIGHT	J13-2	M1-5A, M6-1; M1-5A, M6-2	M, LEFT ARROW; ET, RIGHT ARROW	-	-	-	-	-	-	1	1	-
13-02	114+95	MAINLINE	RIGHT	J13-2	M1-5A, M6-6L; M1-6, M6-4	M, LEFT AND UP ARROW; 21, LEFT AND RIGHT ARROW	48X45	15.00	-	-	-	1	-	-	-
13-03R	114+95	MAINLINE	RIGHT	J13-2	M1-5A, M6-6L; M1-6, M6-4	M, LEFT AND UP ARROW; 21, LEFT AND RIGHT ARROW	-	-	-	-	-	-	1	1	-
13-04	603'E'+25	STH 21	RIGHT	I55-56	ADPOT-A-HIGHWAY	-	30X18	3.75	-	-	1	-	-	-	-
13-05	603'E'+25	STH 21	RIGHT	I55-56P	ADOPT-A-HIGHWAY SPONSOR NAME	TOMAH HIGH SCHOOL SCIENCE OLYMPIAD	30X18	3.75	-	-	-	-	-	-	13-04
13-06R	603'E'+25	STH 21	RIGHT	I55-56	ADPOT-A-HIGHWAY	TOMAH HIGH SCHOOL SCIENCE OLYMPIAD	-	-	-	-	-	-	1	1	-
13-07R	114+60	MAINLINE	LEFT	R12-1	WEIGHT LIMIT	40 TONS	-	-	-	-	-	-	1	1	-
13-08	114+60	MAINLINE	LEFT	R12-1	WEIGHT LIMIT	40 TONS	24X30	5.00	-	1	-	-	-	-	-
13-09	114+60	MAINLINE	LEFT	D11-10	ATV ROUTE	-	24X18	3.00	-	1	-	-	-	-	-
13-10R	114+15	MAINLINE	LEFT	D11-10	ATV ROUTE	-	-	-	-	-	-	-	1	1	-
13-11R	114+15	MAINLINE	LEFT	W12-2	LOW CLEARANCE	13'6"	-	-	-	-	-	-	1	1	-
13-12R	114+15	MAINLINE	LEFT		SUPPLEMENTAL PLAQUE	LOW CLEARANCE	-	-	-	-	-	-	-	-	13-11R
13-13	114+10	MAINLINE	LEFT	W12-2	LOW CLEARANCE	14'0"	36X36	-	9.00	-	-	1	-	-	-
13-14R	115+00	MAINLINE	RIGHT	R1-1	STOP	-	-	-	-	-	-	-	1	1	-
13-15	115+00	MAINLINE	RIGHT	R1-1	STOP	-	30X30	5.18	-	1	-	-	-	-	-
14-00	395'C'+50	FLAGSHIP AVE	RIGHT	W1-3R	REVERSE CURVE RIGHT	-	36X36	-	9.00	-	-	1	-	-	-
14-01	395'C'+50	FLAGSHIP AVE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	25	24X24	-	4.00	-	-	-	-	-	14-00
14-02	397'C'+50	FLAGSHIP AVE	RIGHT	W3-1	STOP AHEAD	-	36X36	-	9.00	-	1	-	-	-	-
14-03R	399'C'+60	FLAGSHIP AVE	RIGHT	W3-1	STOP AHEAD	-	-	-	-	-	-	-	1	1	-
						SHEET TOTALS =		58.86	116.00	8	5	11	16	15	
						PROJECT TOTALS =		97.40	219.00	14	14	18	37	36	

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
1-00	11+00	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	24X30	5.00	-	-	1	-	-	-	-
1-01R	11+10	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	-	-	-	-	-	-	1	1	-
1-02	15+25	MAINLINE	LEFT	R2-1	SPEED LIMIT	35	24X30	5.00	-	1	-	-	-	-	-
1-03R	15+30	MAINLINE	LEFT	R2-1	SPEED LIMIT	35	-	-	-	-	-	-	1	1	-
1-04	17+00	MAINLINE	RIGHT	R2-1	SPEED LIMIT	55	24X30	5.00	-	-	1	-	-	-	-
1-05R	17+10	MAINLINE	RIGHT		END SPEED ZONE	-	-	-	-	-	-	-	1	1	-
2-00R	20+80	MAINLINE	LEFT	W3-5	REDUCED SPEED LIMIT AHEAD	-	-	-	-	-	-	-	1	1	
2-01	21+00	MAINLINE	LEFT	W3-5	REDUCED SPEED LIMIT AHEAD	35	36X36	-	9.00	-	-	1	-	-	-
2-02	25+50	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	30X30	-	6.25	-	1	-	-	-	-
2-03	25+50	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	2-02
2-04	201'A'+00	GOLIATH RD	RIGHT	R1-1	STOP	-	30X30	5.18	-	-	1	-	-	-	-
2-05R	201'A'+03	GOLIATH RD	RIGHT	R1-1	STOP	-	-	-	-	-	-	-	1	1	-
2-06R	28+40	MAINLINE	RIGHT	W1-2R	RIGHT CURVE	-	-	-	-	-	-	-	1	1	-
2-07R	28+40	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	-	-	2-06R
3-00R	31+95	MAINLINE	LEFT	R1-1	STOP	-	-	-	-	-	-	-	1	1	-
3-01	304'B'+75	FLAT IRON AVE	RIGHT	R1-1	STOP	-	30X30	5.18	-	-	1	-	-	-	-
3-02R	33+55	MAINLINE	LEFT	R1-2	YIELD	-	-	-	-	-	-	-	1	1	-
3-03R	301+60	FLAT IRON AVE	LEFT	R2-1	SPEED LIMIT	45	-	-	-	-	-	-	1	1	-
3-04	301+50	FLAT IRON AVE	LEFT	R2-1	SPEED LIMIT	45	24X30	5.00	-	-	1	-	-	-	-
4-00R	37+25	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	-	-	-	-	-	-	1	1	-
4-01R	37+25	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	-	-	-	-	-	-	-	-	4-00R
4-02	40+25	MAINLINE	LEFT	W1-2L	LEFT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
4-03	39+00	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	18X18	-	2.25	-	-	-	-	-	4-02
6-00	60+00	MAINLINE	RIGHT	W2-2	T - INTERSECTION	-	30X30	-	6.25	-	1	-	-	-	-
6-01R	60+50	MAINLINE	RIGHT	W12-2	LOW CLEARANCE	13'6"	-	-	-	-	-	-	1	1	-
6-02	62+00	MAINLINE	RIGHT	W12-2	LOW CLEARANCE	14'0"	36X36	-	9.00	-	-	1	-	-	-
6-03R	62+30	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	-	-	-	-	-	-	1	1	-
7-00R	64+40	MAINLINE	RIGHT	W2-2	T - INTERSECTION	-	-	-	-	-	-	-	1	1	-
7-01	65+50	MAINLINE	RIGHT	W5-1	ROAD NARROWS	-	36X36	-	9.00	-	-	1	-	-	-
7-02	65+50	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	35	24X24	-	4.00	-	-	-	-	-	7-01
7-03	404'C'+00	FLAGSHIP AVE	RIGHT	R1-1	STOP	-	30X30	5.18	-	-	1	-	-	-	-
7-04	404'C'+00	FLAGSHIP AVE	RIGHT	D11-10	ATV ROUTE	-	24X18	3.00	-	1	-	-	-	-	-
7-05R	69+00	MAINLINE	LEFT	D11-10	ATV ROUTE	-	-	-	-	-	-	-	1	1	-
7-06R	69+00	MAINLINE	LEFT	R1-1	STOP	-	-	-	-	-	-	-	1	1	-
7-07	70+05	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
7-08R	70+05	MAINLINE	RIGHT	W5-52R	BRIDGE HASH MARKS	-	-	-	-	-	-	-	1	1	-
7-09	70+15	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
7-10R	70+15	MAINLINE	LEFT	W5-52L	BRIDGE HASH MARKS	-	-	-	-	-	-	-	1	1	-
7-11R	70+85	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS	-	-	-	-	-	-	-	1	1	-
7-12	70+85	MAINLINE	RIGHT	W5-52L	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
7-13R	70+95	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS	-	-	-	-	-	-	-	1	1	-
7-14	70+95	MAINLINE	LEFT	W5-52R	BRIDGE HASH MARKS	-	12X36	-	3.00	1	-	-	-	-	-
8-00	72+25	MAINLINE	RIGHT	W1-2L	LEFT CURVE	-	30X30	-	6.25	-	-	1	-	-	-
8-01	72+25	MAINLINE	RIGHT	W13-1	ADVISORY SPEED PLAQUE	40	18X18	-	2.25	-	-	-	-	-	8-00
8-02	74+50	MAINLINE	LEFT	W2-2	T - INTERSECTION	-	30X30	-	6.25	-	1	-	-	-	-
8-03R	74+00	MAINLINE	LEFT	W2-2	T - INTERSECTION	-	-	-	-	-	-	-	1	1	-
8-04	76+05	MAINLINE	LEFT	W5-1	ROAD NARROWS	-	36X36	-	9.00	-	-	1	-	-	-
8-05	76+05	MAINLINE	LEFT	W13-1	ADVISORY SPEED PLAQUE	35	24X24	-	4.00	-	-	-	-	-	8-04
8-06R	78+95	MAINLINE	LEFT	R2-1	SPEED LIMIT	35	-	-	-	-	-	-	1	1	-
8-07	79+00	MAINLINE	LEFT	W12-2	LOW CLEARANCE	14'0"	36X36	-	9.00	-	-	1	-	-	-
					SHEET TOTALS =			38.54	103.00	6	9	7	21	21	

3

3

MARKERS ROW

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW EACH
100	11+00.00	MAINLINE, LT.	32.92	1
101	11+00.00	MAINLINE, LT.	50.00	1
102	11+70.00	MAINLINE, LT.	50.00	1
103	11+70.00	MAINLINE, LT.	32.97	1
104	16+00.00	MAINLINE, LT.	33.29	1
105	16+00.00	MAINLINE, LT.	45.00	1
106	17+55.00	MAINLINE, LT.	80.00	1
107	18+00.00	MAINLINE, LT.	55.00	1
108	24+00.00	MAINLINE, LT.	55.03	1
109	24+00.00	MAINLINE, RT.	48.75	1
110	21+00.00	MAINLINE, RT.	45.00	1
111	20+00.00	MAINLINE, RT.	60.00	1
112	17+75.00	MAINLINE, RT.	50.00	1
113	17+75.00	MAINLINE, RT.	70.00	1
114	17+40.00	MAINLINE, RT.	70.00	1
115	17+00.00	MAINLINE, RT.	50.00	1
116	17+00.00	MAINLINE, RT.	32.63	1
117	16+00.00	MAINLINE, RT.	32.71	1
118	16+00.00	MAINLINE, RT.	40.00	1
119	15+50.00	MAINLINE, RT.	40.00	1
120	15+50.00	MAINLINE, RT.	32.74	1
121	12+00.00	MAINLINE, RT.	33.01	1
122	12+00.00	MAINLINE, RT.	50.00	1
123	11+03.00	MAINLINE, RT.	50.00	1
124	11+03.00	MAINLINE, RT.	33.08	1
125	25+00.00	MAINLINE, LT.	55.00	1
126	26+00.00	MAINLINE, LT.	70.00	1
127	28+00.00	MAINLINE, LT.	65.00	1
128	29+00.00	MAINLINE, LT.	85.00	1
129	30+65.00	MAINLINE, LT.	57.34	1
130	303'B'+48.66	FLAT IRON AVE, RT.	52.91	1
131	303'B'+22.00	FLAT IRON AVE, RT.	39.53	1
132	303'B'+22.00	FLAT IRON AVE, RT.	45.00	1
133	302'B'+50.00	FLAT IRON AVE, RT.	55.00	1
134	301'B'+51.71	FLAT IRON AVE, RT.	45.00	1
135	301'B'+52.99	FLAT IRON AVE, RT.	31.84	1
136	300'B'+00.00	FLAT IRON AVE, RT.	33.88	1
137	300'B'+00.00	FLAT IRON AVE, LT.	32.12	1
138	300'B'+00.00	FLAT IRON AVE, LT.	40.00	1
139	301'B'+65.00	FLAT IRON AVE, LT.	45.00	1
140	303'B'+10.00	FLAT IRON AVE, LT.	79.13	1
141	35+00.00	MAINLINE, LT.	67.02	1
142	35+00.00	MAINLINE, RT.	70.05	1
143	28+93.12	MAINLINE, RT.	69.90	1

SUBTOTAL 1 = 44

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW EACH
144	25+90.00	MAINLINE, RT.	65.35	1
145	25+00.00	MAINLINE, RT.	50.00	1
146	35+17.37	MAINLINE, LT.	60.00	1
147	36+00.00	MAINLINE, LT.	65.00	1
148	41+00.00	MAINLINE, LT.	55.00	1
149	45+00.00	MAINLINE, LT.	50.00	1
150	45+20.22	MAINLINE, LT.	53.03	1
151	45+18.27	MAINLINE, RT.	60.00	1
152	37+21.65	MAINLINE, RT.	55.25	1
153	46+00.00	MAINLINE, LT.	65.00	1
154	51+00.00	MAINLINE, LT.	70.00	1
155	52+00.00	MAINLINE, LT.	50.00	1
156	58+31.50	MAINLINE, LT.	63.00	1
157	58+29.92	MAINLINE, RT.	55.00	1
158	54+00.00	MAINLINE, RT.	65.00	1
159	48+55.00	MAINLINE, RT.	60.00	1
160	48+55.00	MAINLINE, RT.	75.00	1
161	48+10.00	MAINLINE, RT.	75.00	1
162	48+10.00	MAINLINE, RT.	55.00	1
163	62+00.00	MAINLINE, LT.	42.00	1
164	66+25.00	MAINLINE, LT.	75.00	1
165	403'C'+00.00	FLAGSHIP AVE, RT.	95.00	1
166	401'C'+00.00	FLAGSHIP AVE, RT.	50.00	1
167	400'C'+00.00	FLAGSHIP AVE, RT.	40.00	1
168	400'C'+00.00	FLAGSHIP AVE, RT.	30.94	1
169	400'C'+00.00	FLAGSHIP AVE, LT.	35.06	1
170	69+61.05	MAINLINE, LT.	80.00	1
171	70+25.00	MAINLINE, LT.	80.00	1
172	70+25.00	MAINLINE, LT.	30.31	1
173	70+70.66	MAINLINE, LT.	31.31	1
174	71+00.00	MAINLINE, LT.	34.02	1
175	71+58.86	MAINLINE, LT.	42.64	1
176	71+58.14	MAINLINE, RT.	31.10	1
177	70+75.01	MAINLINE, RT.	34.61	1
178	70+00.00	MAINLINE, RT.	36.25	1
179	70+00.00	MAINLINE, RT.	50.00	1
180	69+60.00	MAINLINE, RT.	80.00	1
181	68+00.00	MAINLINE, RT.	50.00	1
182	68+00.00	MAINLINE, RT.	34.52	1
183	66+00.00	MAINLINE, RT.	30.63	1
184	66+00.00	MAINLINE, RT.	40.00	1
185	64+70.00	MAINLINE, RT.	50.00	1
186	64+70.00	MAINLINE, RT.	65.00	1
187	64+30.00	MAINLINE, RT.	65.00	1

SUBTOTAL 2 = 44

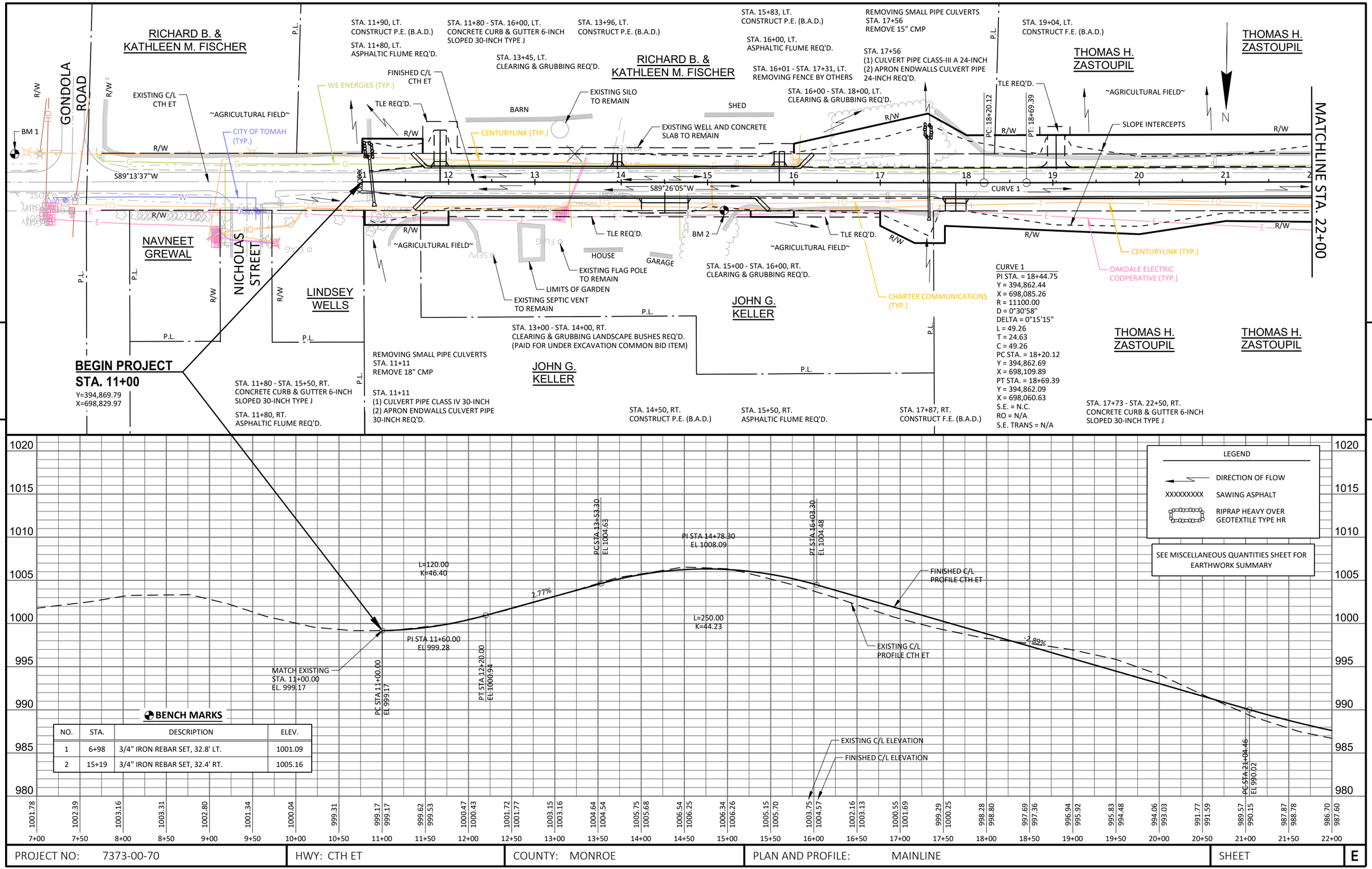
PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW EACH
188	64+30.00	MAINLINE, RT.	55.00	1
189	63+50.00	MAINLINE, RT.	48.66	1
190	73+00.00	MAINLINE, LT.	60.00	1
191	76+00.00	MAINLINE, LT.	50.00	1
192	78+00.00	MAINLINE, LT.	50.00	1
193	78+91.94	MAINLINE, LT.	34.00	1
194	80+00.00	MAINLINE, LT.	33.26	1
195	81+50.00	MAINLINE, LT.	50.00	1
196	85+00.00	MAINLINE, LT.	50.00	1
197	85+94.90	MAINLINE, LT.	75.00	1
198	85+16.55	MAINLINE, RT.	30.76	1
199	84+50.00	MAINLINE, RT.	31.72	1
200	84+00.00	MAINLINE, RT.	50.00	1
201	83+15.00	MAINLINE, RT.	50.00	1
202	83+15.00	MAINLINE, RT.	65.00	1
203	82+70.00	MAINLINE, RT.	65.00	1
204	82+70.00	MAINLINE, RT.	50.00	1
205	82+00.00	MAINLINE, RT.	50.00	1
206	82+00.00	MAINLINE, RT.	33.35	1
207	79+00.00	MAINLINE, RT.	32.21	1
208	78+00.00	MAINLINE, RT.	75.00	1
209	77+00.00	MAINLINE, RT.	60.00	1
210	76+00.00	MAINLINE, RT.	45.00	1
211	76+00.00	MAINLINE, RT.	33.09	1
212	75+60.73	MAINLINE, RT.	31.58	1
213	74+85.00	MAINLINE, RT.	31.27	1
214	74+85.00	MAINLINE, RT.	65.00	1
215	74+40.00	MAINLINE, RT.	65.00	1
216	74+40.00	MAINLINE, RT.	31.71	1
217	73+03.63	MAINLINE, RT.	33.12	1
218	89+00.00	MAINLINE, LT.	45.00	1
219	91+95.00	MAINLINE, LT.	100.00	1
220	92+50.00	MAINLINE, LT.	75.00	1
221	94+30.00	MAINLINE, LT.	82.00	1
222	96+25.00	MAINLINE, LT.	70.00	1
223	102+00.00	MAINLINE, LT.	55.00	1
224	102+00.00	MAINLINE, RT.	50.00	1
225	101+75.00	MAINLINE, RT.	50.00	1
226	501'D'+50.00	FLARE AVE, LT.	32.66	1
227	501'D'+50.00	FLARE AVE, RT.	33.34	1
228	100+05.00	MAINLINE, RT.	29.85	1
229	99+28.34	MAINLINE, RT.	29.45	1
230	96+00.00	MAINLINE, RT.	45.00	1
231	94+00.00	MAINLINE, RT.	40.00	1

SUBTOTAL 3 = 44

PT #	STATION	LOCATION	OFFSET FROM FINISHED C/L FT	633.5100 MARKERS ROW EACH
232	92+05.00	MAINLINE, RT.	50.00	1
233	92+05.00	MAINLINE, RT.	60.00	1
234	91+60.00	MAINLINE, RT.	60.00	1
235	91+60.00	MAINLINE, RT.	50.00	1
236	86+00.00	MAINLINE, RT.	50.00	1
237	85+50.00	MAINLINE, RT.	30.69	1
238	103+00.00	MAINLINE, LT.	80.00	1
239	104+50.00	MAINLINE, LT.	50.00	1
240	108+00.00	MAINLINE, LT.	42.00	1
241	112+03.00	MAINLINE, LT.	55.00	1
242	112+09.00	MAINLINE, LT.	31.82	1
243	113+03.64	MAINLINE, LT.	31.42	1
244	114+64.07	MAINLINE, LT.	32.39	1
245	114+73.29	MAINLINE, RT.	33.55	1
246	113+04.04	MAINLINE, RT.	34.58	1
247	112+18.00	MAINLINE, RT.	34.30	1
248	112+00.00	MAINLINE, RT.	45.00	1
249	111+00.00	MAINLINE, RT.	50.00	1
250	107+00.00	MAINLINE, RT.	50.00	1
251	104+75.00	MAINLINE, RT.	60.00	1
252	104+30.00	MAINLINE, RT.	60.00	1
253	104+30.00	MAINLINE, RT.	50.00	1
254	97+00.00	MAINLINE, RT.	33.87	1
255	97+00.00	MAINLINE, RT.	40.00	1
256	69+25.00	MAINLINE, RT.	135.00	1
257	69+00.00	MAINLINE, RT.	125.00	1
258	68+80.00	MAINLINE, RT.	66.85	1

SUBTOTAL 4= 27

PROJECT TOTAL = 159

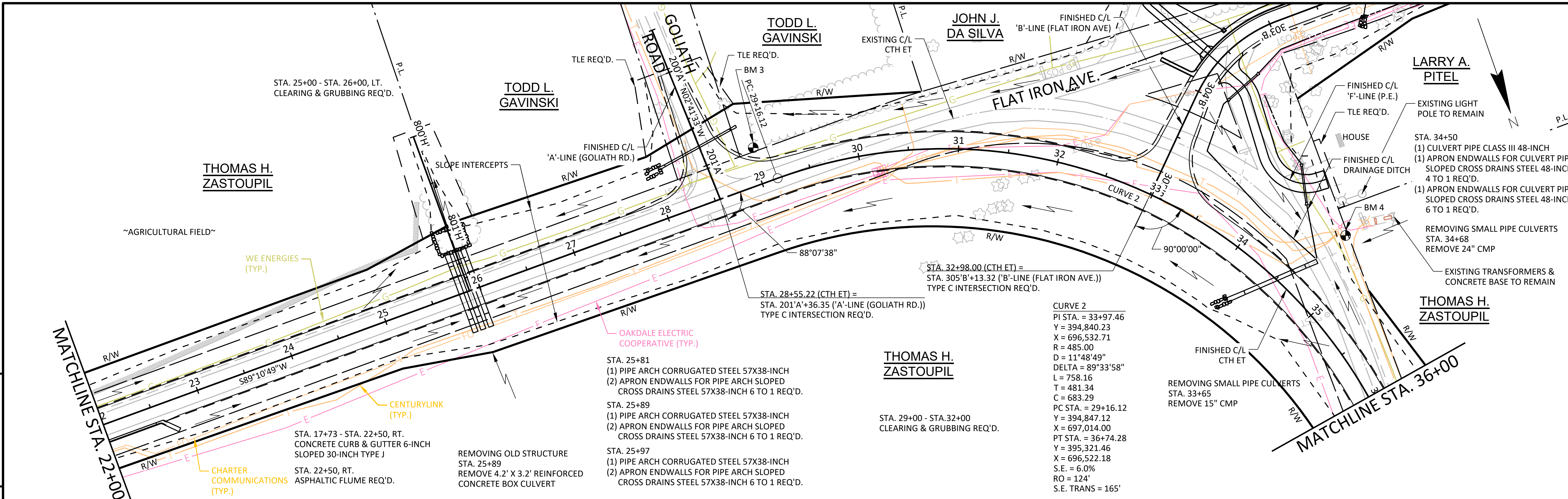


BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	6+98	3/4" IRON REBAR SET, 32.8' LT.	1001.09
2	15+19	3/4" IRON REBAR SET, 32.4' RT.	1005.16

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P 60MPH PROFILE.DWG
LAYOUT NAME - P&P 1
PLOT DATE : 9/15/2020 1:31 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:100 FT



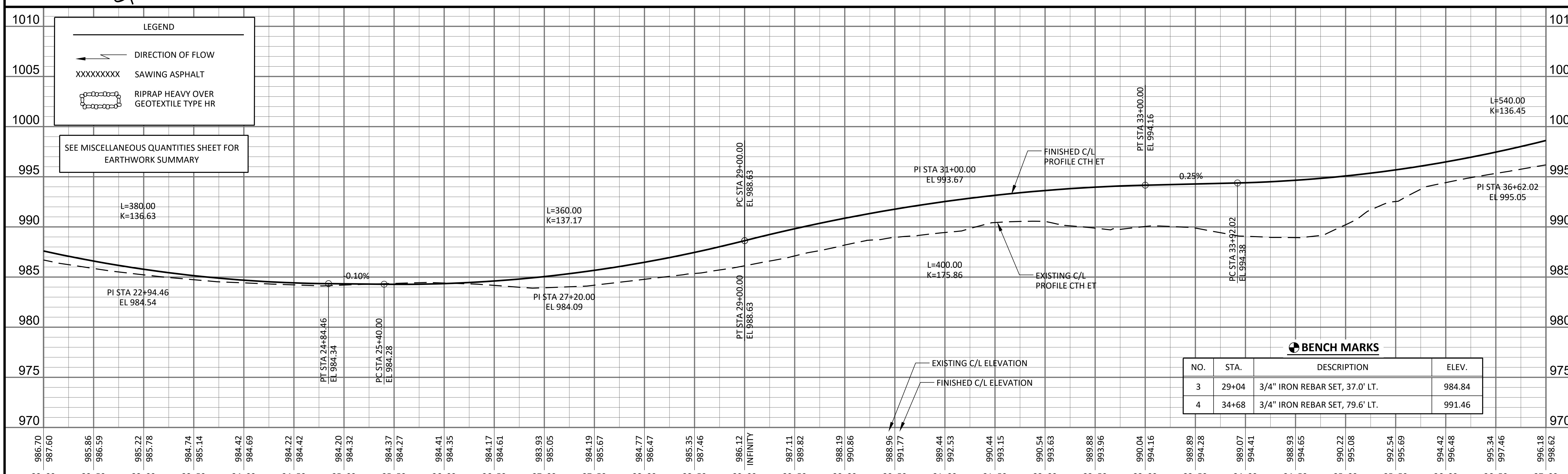
LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY



BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
3	29+04	3/4" IRON REBAR SET, 37.0' LT.	984.84
4	34+68	3/4" IRON REBAR SET, 79.6' LT.	991.46

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET	E

REMOVING SMALL PIPE CULVERTS
STA. 41+83, LT.
REMOVE 15" CMP

STA. 42+19, LT.
REMOVING SIGNS BY OTHERS

STA. 41+83, LT.
CONSTRUCT P.E. (ASPHALT)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

REMOVING SMALL PIPE CULVERTS
STA. 42+50, LT.
REMOVE 15" CMP

STA. 42+49, LT.
CONSTRUCT P.E. (ASPHALT)
(1) CULVERT PIPE CLASS IV 18-INCH
(2) APRON ENDWALLS REQ'D.

STA. 44+50 - STA. 47+50, LT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J

STA. 44+50, LT.
ASPHALTIC FLUME REQ'D.

STA. 44+00 - STA. 48+00
CLEARING & GRUBBING REQ'D.

STA. 48+00 - STA. 49+00
CLEARING & GRUBBING BUSHES REQ'D.
(PAID FOR UNDER EXCAVATION
COMMON BID ITEM)

THOMAS H. ZASTOUPIL

THOMAS H. ZASTOUPIL

THOMAS H. ZASTOUPIL

THOMAS H. ZASTOUPIL

CENTURYLINK (TYP.)

SLOPE INTERCEPTS

FINISHED C/L CTH ET

WE ENERGIES (TYP.)

MATCHLINE STA. 36+00

MATCHLINE STA. 50+00

PT: 36+74.28

R/W

N01°15'12"W

BM 5

EXISTING C/L CTH ET

OAKDALE ELECTRIC COOPERATIVE (TYP.)

STA. 45+17, RT.
CONSTRUCT F.E. (B.A.D.)

STA. 48+38
(1) CULVERT PIPE CLASS-III A 24-INCH
(2) APRON ENDWALLS CULVERT PIPE
24-INCH REQ'D.

REMOVING SMALL PIPE CULVERTS
STA. 48+38
REMOVE 18" CMP

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

PI STA 36+62.02
EL 995.05

L=540.00
K=136.45

4.20%

PT STA 39+32.02
EL 1006.40

PC STA 42+20.00
EL 1018.50

PI STA 44+00.00
EL 1026.06

L=360.00
K=224.42

FINISHED C/L PROFILE CTH ET

EXISTING C/L PROFILE CTH ET

EXISTING C/L ELEVATION

FINISHED C/L ELEVATION

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
5	45+59	3/4" IRON REBAR SET, 33.6' RT.	1032.56

PT STA 45+80.00
EL 1030.74

2.60%

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	42+50	43+00	43+50	44+00	44+50	45+00
994.42	995.34	996.18	997.25	998.54	1000.06	1002.13	1004.87	1008.11	1011.36	1013.81	1015.58	1016.79	1017.85	1018.81	1020.28	1022.58	1025.37	1028.41
996.48	997.46	998.62	999.96	1001.48	1003.19	1005.09	1007.15	1009.25	1011.35	1013.46	1015.56	1017.66	1019.74	1021.72	1023.59	1025.34	1026.99	1028.52

45+00	45+50	46+00	46+50	47+00	47+50	48+00	48+50	49+00	49+50	50+00
1028.41	1030.86	1032.77	1034.13	1035.20	1035.95	1036.49	1037.04	1037.59	1038.36	1039.76
1028.52	1029.94	1031.26	1032.56	1033.86	1035.16	1036.46	1037.76	1039.06	1040.36	1041.66

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P 60MPH PROFILE.DWG
LAYOUT NAME - P&P 3

PLOT DATE : 9/15/2020 1:31 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

STA. 54+11, LT.
CONSTRUCT F.E. (B.A.D.)

STA. 57+50, LT.
RELOCATE F.E. (B.A.D.)

STA. 59+00, LT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

THOMAS H. ZASTOUPIL

THOMAS E. CLAY FAMILY IRREVOCABLE TRUST

N

CENTURYLINK (TYP.)

WE ENERGIES (TYP.)

R/W

PC: 51+41.79

PT: 52+55.24

BM 6

TLE REQ'D.

SLOPE INTERCEPTS

FINISHED C/L CTH ET

71°57'54"

PC: 60+17.83

PT: 60+99.36

NORTHERN NATURAL GAS COMPANY

MATCHLINE STA. 50+00

MATCHLINE STA. 64+00

CURVE 3

N00°40'04"W

CURVE 4

N01°05'19"W

EXISTING C/L CTH ET

OAKDALE ELECTRIC COOPERATIVE (TYP.)

TRAILER

GARAGE

P.L.

CURVE 3
PI STA. = 51+98.52
Y = 396,845.33
X = 696,488.84
R = 11100.00
D = 0°30'58"
DELTA = 0°35'08"
L = 113.45
T = 56.72
C = 113.45
PC STA. = 51+41.79
Y = 396,788.62
X = 696,490.08
PT STA. = 52+55.24
Y = 396,902.05
X = 696,488.18
S.E. = N.C.
RO = N/A
S.E. TRANS = N/A

STA. 53+97, RT.
REMOVING SIGN BY OTHERS

THOMAS H. ZASTOUPIL

STA. 53+25, RT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

STA. 55+00 - STA. 59+00, RT.
CLEARING & GRUBBING REQ'D.

STA. 54+99, RT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

STA. 56+59, RT.
CONSTRUCT P.E. (B.A.D.)

STA. 56+40 - STA. 59+50, RT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J

STA. 59+50, RT.
ASPHALTIC FLUME REQ'D.

THOMAS H. ZASTOUPIL

CURVE 4
PI STA. = 60+58.59
Y = 397,705.35
X = 696,478.81
R = 11100.00
D = 0°30'58"
DELTA = 0°25'15"
L = 81.53
T = 40.77
C = 81.53
PC STA. = 60+17.83
Y = 397,664.58
X = 696,479.29
PT STA. = 60+99.36
Y = 397,746.11
X = 696,478.04
S.E. = N.C.
RO = N/A
S.E. TRANS = N/A

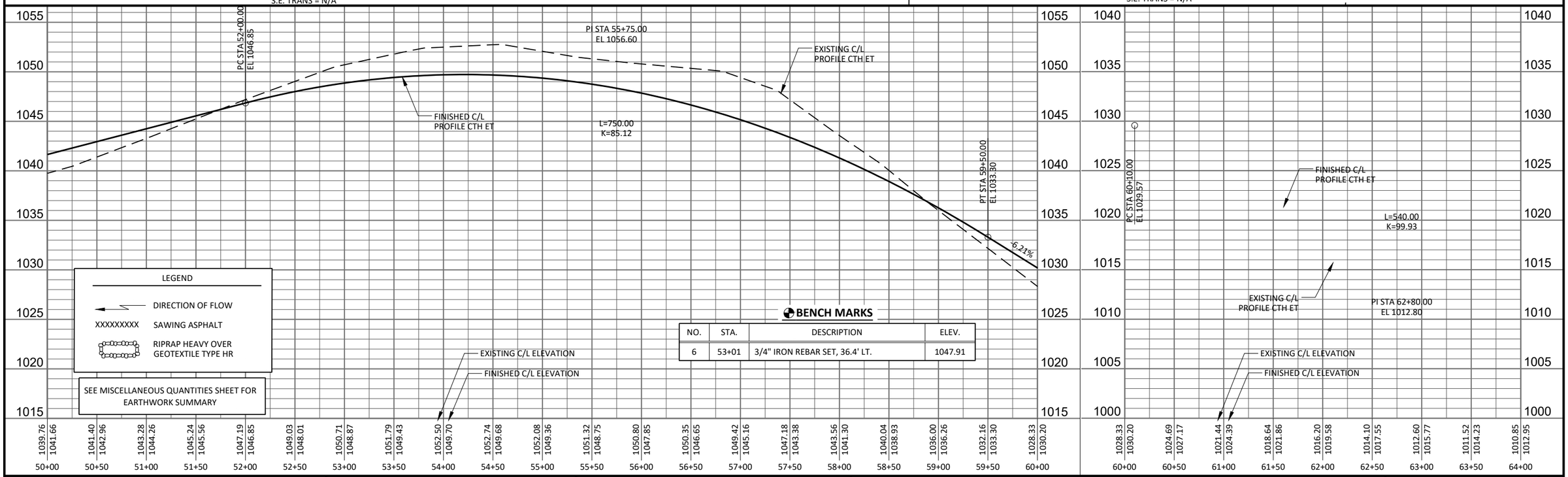
TLE REQ'D.

ARTHUR G. TRALMER

STA. 62+50, RT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

5

5



LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

BENCH MARKS

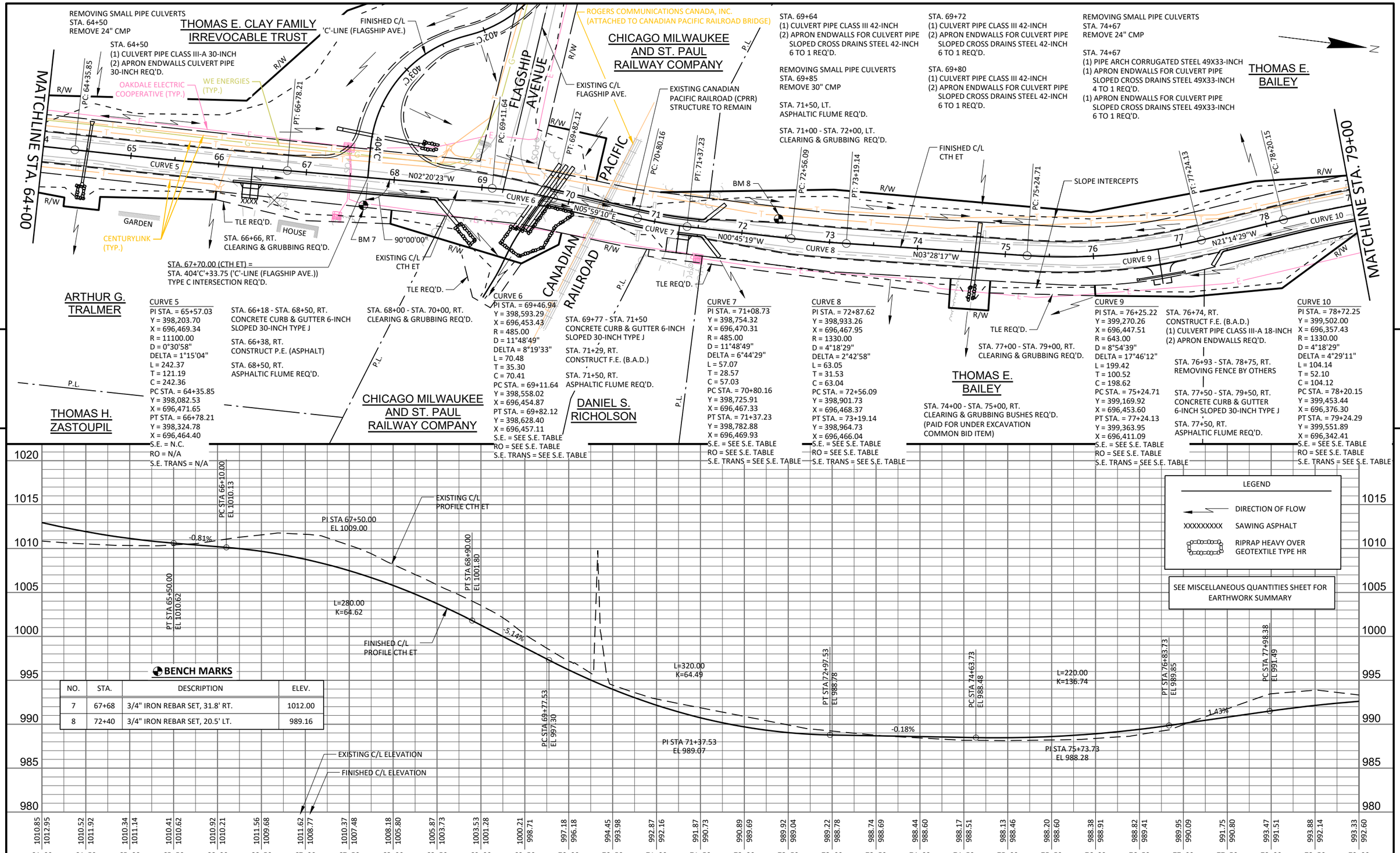
NO.	STA.	DESCRIPTION	ELEV.
6	53+01	3/4" IRON REBAR SET, 36.4' LT.	1047.91

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P 60MPH PROFILE.DWG
LAYOUT NAME - P&P 4

PLOT DATE : 9/15/2020 1:32 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P 60MPH PROFILE.DWG
LAYOUT NAME - P&P 5
PLOT DATE : 9/15/2020 1:32 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : Custom

STA. 80+70, LT.
REMOVE P.E. (B.A.D.)

STA. 81+54, LT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

STA. 82+50, LT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

CURVE 11
PI STA. = 85+20.16
Y = 400,122.46
X = 696,170.63
R = 500.00
D = 11°27'33"
DELTA = 29°08'34"
L = 254.32
T = 129.97
C = 251.59
PC STA. = 83+90.18
Y = 399,998.00
X = 696,208.10
PT STA. = 86+44.50
Y = 400,212.91
X = 696,077.30
S.E. = 6.0%
RO = 124'
S.E. TRANS = 165'

STA. 84+50 - STA. 88+50, LT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J

STA. 84+50, LT.
ASPHALTIC FLUME REQ'D.

STA. 85+00 - STA. 95+00, LT.
CLEARING & GRUBBING REQ'D.

STA. 92+34, LT.
CONSTRUCT P.E. (CONCRETE)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

THOMAS E. BAILEY

JEFFERY J. RAESE

THOMAS J. BAILEY

MATCHLINE STA. 79+00

MATCHLINE STA. 94+00

PT: 79+24.29

EXISTING ABOVE GROUND STORAGE TANKS TO REMAIN

EXISTING WELL TO REMAIN

HOUSE

SHED

EXISTING SATELLITE DISH TO BE REMOVED BY OTHERS

PC: 93+11.50

BM 10

R/W

P.L.

N16°45'18"W

N45°53'52"W

PC: 83+90.18

PT: 86+44.50

CENTURYLINK (TYP.)

ALLIANT ENERGY (TYP.)

EXISTING C/L CTH ET

EXISTING SEPTIC TO REMAIN

TLE REQ'D.

104°20'57"

95°29'08"

102°34'03"

CURVE 11

BM 9

SLOPE INTERCEPTS

FINISHED C/L CTH ET

OAKDALE ELECTRIC COOPERATIVE (TYP.)

WETLAND DETERMINATION (TYP.)

STA. 79+25 - STA. 79+46, RT.
REMOVING FENCE BY OTHERS

STA. 77+50 - STA. 79+50, RT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J

STA. 81+50, RT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

REMOVING SMALL PIPE CULVERTS
STA. 81+50, RT.
REMOVE 15" CMP

STA. 82+89
(1) CULVERT PIPE CLASS-III A 24-INCH
(2) APRON ENDWALLS CULVERT PIPE
24-INCH REQ'D.

REMOVING SMALL PIPE CULVERTS
STA. 82+89
REMOVE 15" CMP

STA. 91+88
(1) CULVERT PIPE CLASS-III A 24-INCH
(2) APRON ENDWALLS CULVERT PIPE
24-INCH REQ'D.

REMOVING SMALL PIPE CULVERTS
STA. 91+88
REMOVE 12" CMP

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

WETLANDS

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
9	85+56	3/4" IRON REBAR SET, 36.8' RT.	994.79
10	93+43	3/4" IRON REBAR SET, 25.1' LT.	1002.33

PI STA 79+15.88
EL 993.17

PT STA 80+33.38
EL 993.04

L=235.00
K=152.53

-0.11%

PC STA 82+35.99
EL 992.81

PI STA 83+58.49
EL 992.67

L=245.00
K=171.73

1.31%

PT STA 84+80.99
EL 994.28

PC STA 86+00.00
EL 995.85

PI STA 87+50.00
EL 997.82

L=300.00
K=279.19

EXISTING C/L PROFILE CTH ET

PT STA 89+00.00
EL 998.18

FINISHED C/L PROFILE CTH ET

0.24%

PC STA 93+00.00
EL 999.14

EXISTING C/L ELEVATION

FINISHED C/L ELEVATION

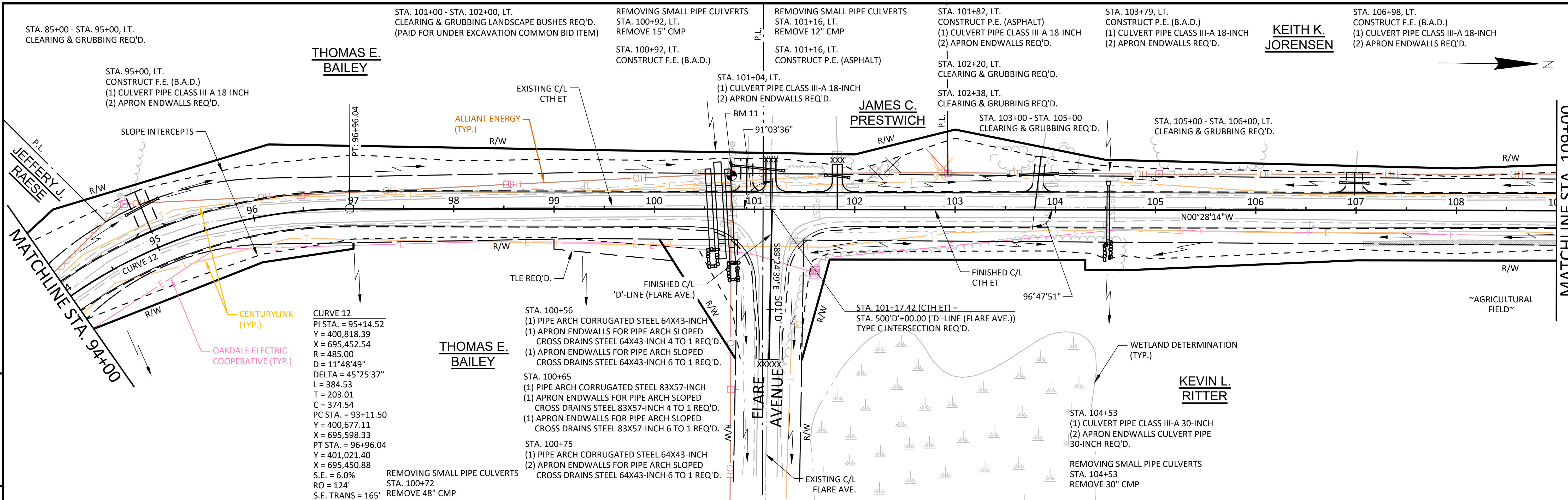
79+00	79+50	80+00	80+50	81+00	81+50	82+00	82+50	83+00	83+50	84+00	84+50	85+00	85+50	86+00	86+50	87+00	87+50	88+00	88+50	89+00	89+50	90+00	90+50	91+00	91+50	92+00	92+50	93+00	93+50	94+00
993.33	992.86	992.56	992.46	992.33	991.40	990.47	990.10	990.11	990.74	991.94	993.90	996.44	998.94	1000.49	1000.45	998.61	996.87	995.92	995.64	995.63	995.60	995.43	995.28	995.18	995.42	995.78	996.42	998.06	999.74	999.57
992.60	992.90	993.04	993.02	992.96	992.91	992.85	992.80	992.86	993.06	993.41	993.90	994.53	995.19	995.85	996.46	996.98	997.42	997.76	998.02	998.18	998.30	998.42	998.54	998.66	998.78	998.90	999.02	999.14	999.21	999.17

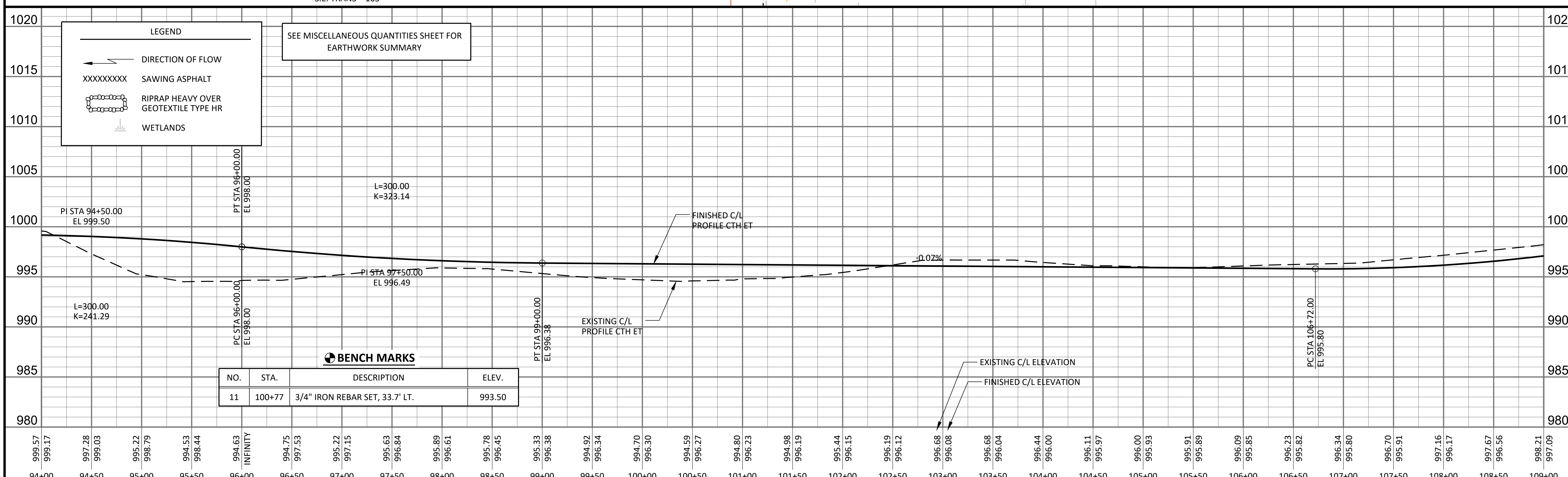
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P 60MPH PROFILE.DWG
LAYOUT NAME - P&P 6

PLOT DATE : 9/15/2020 1:32 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





LEGEND

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

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
11	100+77	3/4" IRON REBAR SET, 33.7' LT.	993.50

STATION	EXISTING C/L ELEVATION	FINISHED C/L ELEVATION
94+00	999.57	999.17
94+50	997.28	999.03
95+00	995.22	998.79
95+50	994.53	998.44
96+00	994.63	INFINITY
96+50	994.75	997.53
97+00	995.22	997.15
97+50	995.63	996.84
98+00	995.89	996.61
98+50	995.78	996.45
99+00	995.33	996.38
99+50	994.92	996.34
100+00	994.70	996.30
100+50	994.59	996.27
101+00	994.80	996.23
101+50	994.98	996.19
102+00	995.44	996.15
102+50	996.19	996.12
103+00	996.68	996.08
103+50	996.68	996.04
104+00	996.44	996.00
104+50	996.11	995.97
105+00	996.00	995.93
105+50	995.91	995.89
106+00	996.09	995.85
106+50	996.23	995.82
107+00	996.34	995.80
107+50	996.70	995.91
108+00	997.16	996.17
108+50	997.67	996.56
109+00	998.21	997.09

PROJECT NO: 7373-00-70 | HWY: CTH ET | COUNTY: MONROE | PLAN AND PROFILE: MAINLINE | SHEET E

STA. 111+00 - STA. 115+00
CLEARING & GRUBBING REQ'D.

STA. 111+35 - STA. 114+52, LT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J

STA. 111+20, LT.
ASPHALTIC FLUME REQ'D.

STA. 113+28, LT.
CONSTRUCT P.E. (B.A.D.)

BEGIN CONSTRUCTION
STA. 599'E'+60

PC: 599+90.34

STA. 114+58 - STA. 115+16, LT.
REMOVING CURB & GUTTER REQ'D.

STA. 114+52 - STA. 115+17, LT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 36-INCH TYPE D

STA. 115+49.18 (CTH ET) =
STA. 601'E'+90.27 ('E'-LINE (STH 21))
TYPE D INTERSECTION (MOD.) REQ'D.

98°24'56"

EXISTING C/L
'E'-LINE (STH 21)

END PROJECT
STA. 115+26.95
Y=402,851.64
X=695,417.48

STA. 114+77 - STA. 115+36, RT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 36-INCH TYPE D

END CONSTRUCTION
STA. 603'E'+45

STA. 111+35 - STA. 114+77, RT.
CONCRETE CURB & GUTTER 6-INCH
SLOPED 30-INCH TYPE J

STA. 111+92 - STA. 111+94, RT.
REMOVING FENCE BY OTHERS

STA. 111+20, RT.
ASPHALTIC FLUME REQ'D.

STA. 113+49, RT.
CONSTRUCT P.E. (B.A.D.)

STA. 114+90 - STA. 115+35, RT.
REMOVING CURB & GUTTER REQ'D.

CURVE 13
PI STA. = 111+68.19
Y = 402,493.51
X = 695,438.78
R = 1330.00
D = 4°18'29"
DELTA = 2°55'59"
L = 68.09
T = 34.05
C = 68.08
PC STA. = 111+34.14
Y = 402,459.46
X = 695,439.06
PT STA. = 112+02.23
Y = 402,527.50
X = 695,436.76
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

CHICAGO AND NORTH WESTERN RAILWAY

CAROLEE LINENBERG

KEITH K. JORENSEN

THOMAS E. BAILEY

KEVIN L. RITTER

RICHARD A. YARRINGTON

TIMOTHY E. LIDDANE REVOCABLE TRUST

TIMOTHY E. LIDDANE REVOCABLE TRUST

TIMOTHY E. LIDDANE REVOCABLE TRUST

ALLIANT ENERGY (TYP.)

OAKDALE ELECTRIC COOPERATIVE (TYP.)

CENTURYLINK (TYP.)

WE ENERGIES (TYP.)

SLOPE INTERCEPTS

FINISHED C/L CTH ET

EXISTING C/L CTH ET

~AGRICULTURAL FIELD~

MATCHLINE STA. 109+00

PACIFIC

UNION RAILROAD

CHICAGO AND NORTH WESTERN RAILWAY

STH 21

R/W

TLE REQ'D.

BM 12

BM 13

CURVE 13

N03°24'14"W

HOUSE

EXISTING SATELLITE DISH TO REMAIN

PC: 111+34.14

PT: 112+02.23

600+00

601+00

602+00

603+00

109

110

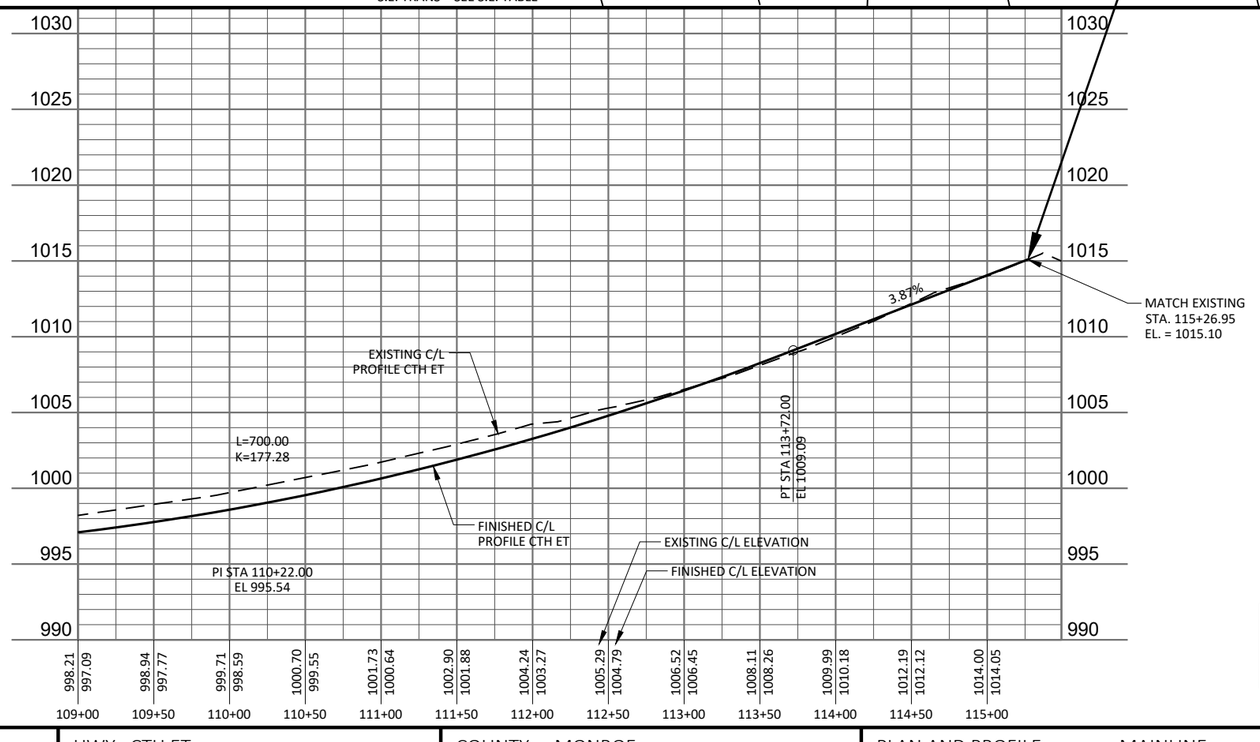
111

112

113

114

115



LEGEND

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

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
12	109+96	3/4" IRON REBAR SET, 25.8' RT.	997.67
13	114+57	3/4" IRON REBAR SET, 26.9' LT.	1011.99

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P 60MPH PROFILE.DWG
LAYOUT NAME - P&P 8
PLOT DATE : 9/15/2020 1:32 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:100 FT

REMOVING SMALL PIPE CULVERTS
STA. 201'A'+11
REMOVE 18" CMP

STA. 200'A'+80
(1) CULVERT PIPE CLASS-III A 24-INCH
(2) APRON ENDWALLS CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D.

STA. 200'A'+00 - STA. 201'A'+00
CLEARING & GRUBBING REQ'D.

TODD L. GAVINSKI

P.L.

BM 3

EXISTING C/L 'A'-LINE (GOLIATH RD.)

PC: 29+16.12

STA. 28+55.22 (CTH ET) =
STA. 201'A'+36.35 ('A'-LINE (GOLIATH RD.))
TYPE C INTERSECTION REQ'D.

WE ENERGIES (TYP.)

R/W

TLE REQ'D.

88°07'38"

THOMAS H. ZASTOUPIL

200'A'

201'A'

N02°41'33"W

CENTURYLINK (TYP.)

TLE REQ'D.

SLOPE INTERCEPTS

FINISHED C/L 'A'-LINE (GOLIATH RD.)

OAKDALE ELECTRIC COOPERATIVE (TYP.)

BEGIN CONSTRUCTION
STA. 200'A'+00.00
Y=394,711.89
X=697,081.30

TODD L. GAVINSKI

EXISTING C/L CTH ET

FINISHED C/L CTH ET

END CONSTRUCTION
STA. 201'A'+18.35
Y=394,830.01
X=697,075.74

30 29 28 27 26

N

PI STA. = 201'A'+18.35
EL. = 987.76

0.07%

-1.05%

MATCH EXISTING
STA. 200'A'+00.00
EL. = 987.68

FINISHED C/L PROFILE 'A'-LINE (GOLIATH RD.)

EXISTING C/L PROFILE 'A'-LINE (GOLIATH RD.)

EXISTING C/L ELEVATION 'A'-LINE

FINISHED C/L ELEVATION 'A'-LINE

987.68 987.68 986.72 987.71 985.57 987.75

LEGEND

DIRECTION OF FLOW

XXXXXXXXX SAWING ASPHALT

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
3	29+04	3/4" IRON REBAR SET, 37.0' LT.	984.84

1005 1000 995 990 985 980 975 970 965

194'A'+50 195'A'+00 195'A'+50 196'A'+00 196'A'+50 197'A'+00 197'A'+50 198'A'+00 198'A'+50 199'A'+00 199'A'+50 200'A'+00 200'A'+50 201'A'+00 201'A'+50 202'A'+00 202'A'+50 203'A'+00 203'A'+50 204'A'+00 204'A'+50 205'A'+00 205'A'+50 206'A'+00 206'A'+50 207'A'+00 207'A'+50 208'A'+00 208'A'+50

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'A'-LINE (GOLIATH ROAD)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P_GOLIATH RD.DWG
LAYOUT NAME - 'A'-LINE (GOLIATH ROAD)

PLOT DATE : 9/15/2020 1:32 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########

STA. 300'B'+00 - STA. 303'B'+83, RT.
CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J REQ'D.

STA. 303'B'+89, RT.
ASPHALTIC FLUME REQ'D.

STA. 301'B'+00 - STA. 302'B'+00, LT.
CLEARING & GRUBBING REQ'D.

EXISTING TRANSFORMERS AND CONCRETE BASE TO REMAIN

EXISTING LIGHT POLE TO REMAIN

BM 4

STA. 32+98.00 (CTH ET) =
STA. 305'B'+13.32 ('B'-LINE (FLAT IRON AVE.))
TYPE C INTERSECTION REQ'D.

THOMAS H. ZASTOUPIL

THOMAS H. ZASTOUPIL

N

STA. 303'B'+65, LT.
CONSTRUCT P.E. (ASPHALT)

LARRY A. PITEL

HOUSE

FINISHED C/L 'F'-LINE

FINISHED C/L CTH ET

90°00'00"

OAKDALE ELECTRIC COOPERATIVE (TYP.)

CHARTER COMMUNICATIONS (TYP.)

CENTURYLINK (TYP.)

FINISHED C/L DRAINAGE DITCH

PT: 304+04.16

PC: 302+92.49

305'B'

304'B'

N44°17'39"E

110°16'30"

TLE REQ'D.

FINISHED C/L 'B'-LINE (FLAT IRON AVE)

EXISTING C/L 'B'-LINE (FLAT IRON AVE.)

R/W

PC: 29+16.12

CURVE 14
PI STA. = 303'B'+51.30
Y = 394,864.70
X = 696,551.07
R = 144.00
D = 39°47'19"
DELTA = 44°25'49"
L = 111.67
T = 58.81
C = 108.89
PC STA. = 302'B'+92.49
Y = 394,863.39
X = 696,492.27
PT STA. = 304'B'+04.16
Y = 394,906.79
X = 696,592.14
S.E. = SEE S.E. TABLE
RO = SEE S.E. TABLE
S.E. TRANS = SEE S.E. TABLE

33'
33'
(ASPHALT)

308'B' 301'B' 302'B' 303'B'

CURVE 14

N88°43'28"E

WE ENERGIES (TYP.)

TLE REQ'D.

EXISTING WELL TO REMAIN

TLE REQ'D.

SLOPE INTERCEPTS

FINISHED C/L 'G'-LINE

TLE REQ'D.

EXISTING SEPTIC FIELD TO REMAIN

EXISTING C/L CTH ET

FINISHED C/L DRAINAGE DITCH

BM 3

BEGIN CONSTRUCTION
STA. 299'B'+90
Y=394,856.65
X=696,189.86

END CONSTRUCTION
STA. 304'B'+95.32
Y=394,972.04
X=696,655.80

STA. 300'B'+35, RT.
CONSTRUCT P.E. (ASPHALT)

DAWN M. BURKHALTER

STA. 302'B'+20, RT.
CONSTRUCT P.E. (ASPHALT)

BEVERLY J. BURKHALTER

STA. 303'B'+65, RT.
CONSTRUCT P.E. (ASPHALT)

JOHN J. DA SILVA

TODD L. GAVINSKI

TODD L. GAVINSKI

STA. 302'B'+00 - STA. 303'B'+00
CLEARING & GRUBBING REQ'D.

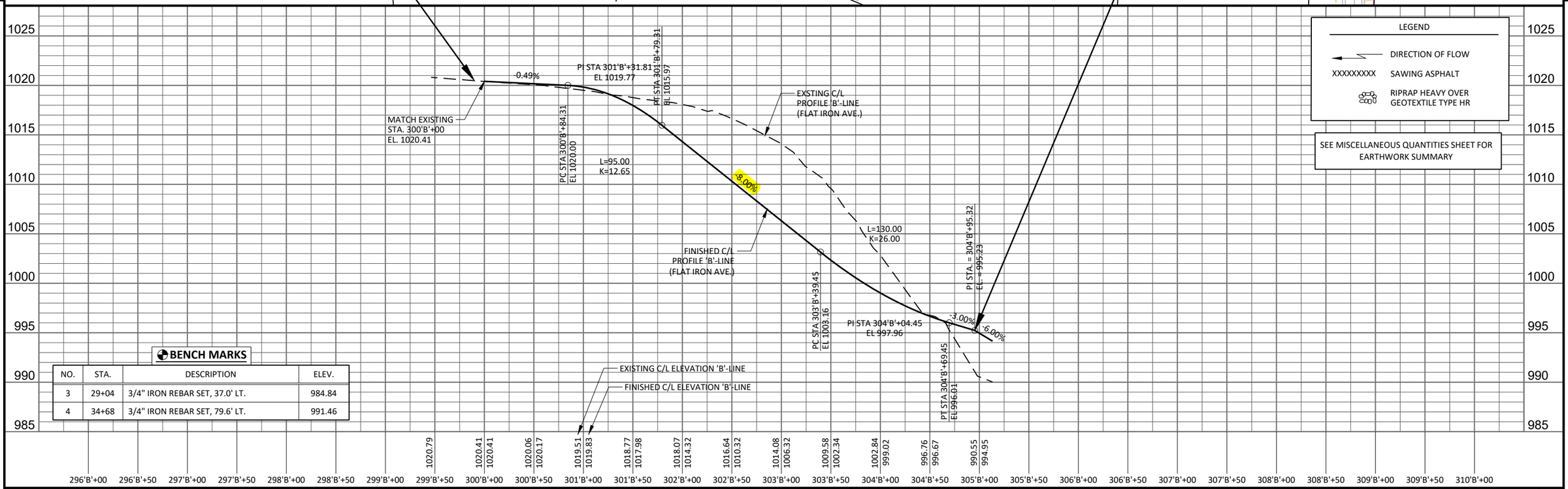
STA. 303'B'+00 - STA. 304'B'+00, RT.
CLEARING & GRUBBING REQ'D.

201'A'

FINISHED C/L 'A'-LINE (GOLIATH RD.)

5

5



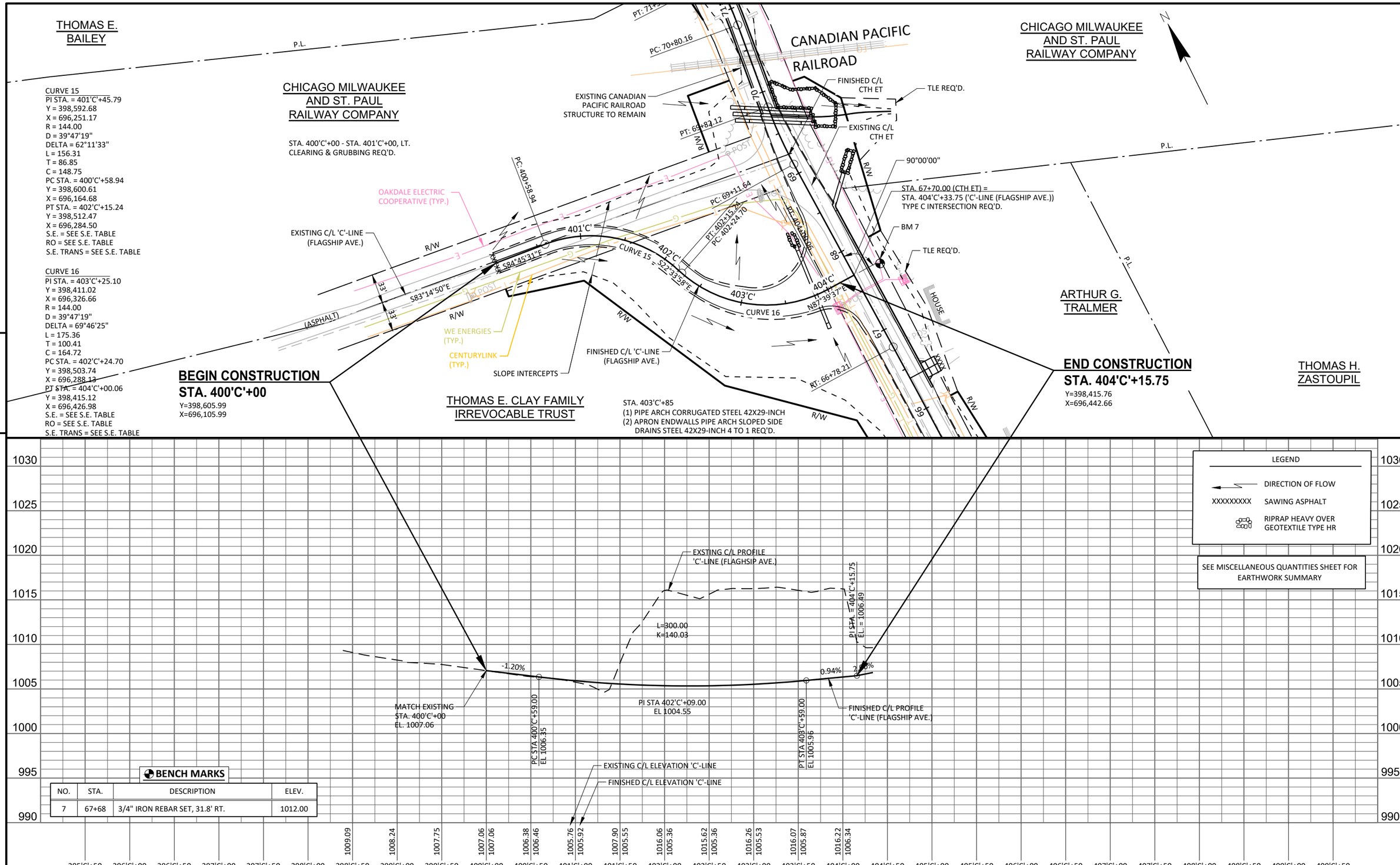
BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
3	29+04	3/4" IRON REBAR SET, 37.0' LT.	984.84
4	34+68	3/4" IRON REBAR SET, 79.6' LT.	991.46

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'B'-LINE (FLAT IRON AVE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P_FLAT IRON AVE.DWG
LAYOUT NAME - 'B'-LINE (FLAT IRON AVE)

PLOT DATE : 9/15/2020 1:32 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ########### WISDOT/CADDS SHEET 44



BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
7	67+68	3/4" IRON REBAR SET, 31.8' RT.	1012.00

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'C'-LINE (FLAGSHIP AVE)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P_FLAGSHIP AVE.DWG
LAYOUT NAME - 'C'-LINE (FLAGSHIP AVE)
PLOT DATE : 9/15/2020 1:33 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

KEITH K. JORENSEN

ETHAN D. SCHUH

JAMES C. PRESTWICH

KEVIN L. RITTER

THOMAS E. BAILEY

THOMAS E. BAILEY

THOMAS E. BAILEY

P.L.

R/W

FINISHED C/L CTH ET

EXISTING C/L CTH ET

STA. 500'D'+00 - STA. 502'D'+00, LT. CLEARING & GRUBBING REQ'D.

CENTURYLINK (TYP.)

EXISTING C/L 'D'-LINE (FLARE AVE.)

WETLAND DETERMINATION (TYP.)

STA. 101+17.42 (CTH ET) = STA. 500'D'+00.00 ('D'-LINE (FLARE AVE.)) TYPE C INTERSECTION REQ'D.

91°03'36"

501'D'

S89°24'39"E

BM 11

(ASPHALT)

33'

FINISHED C/L 'D'-LINE (FLARE AVE.)

SLOPE INTERCEPTS

ALLIANT ENERGY (TYP.)

TLE REQ'D.

OAKDALE ELECTRIC COOPERATIVE (TYP.)

BEGIN CONSTRUCTION
STA. 500'D'+18
Y=401,442.59
X=695,465.41

END CONSTRUCTION
STA. 501'D'+50.00
Y=401,441.23
X=695,597.41

N

5

5

PI STA. = 500'D'+18.00
EL. = 995.85

FINISHED C/L PROFILE 'D'-LINE (FLARE AVE.)

L=80.00
K=27.69

-2.00%

-3.00%

-0.11%

EXSTING C/L PROFILE 'D'-LINE (FLARE AVE.)

PI STA 501'D'+08.77
EL 993.13

MATCH EXISTING STA. 501'D'+50 EL. 993.09

PC STA 500'D'+68.77
EL 994.33

PT STA 501'D'+48.77
EL 993.09

EXISTING C/L ELEVATION 'D'-LINE

FINISHED C/L ELEVATION 'D'-LINE

994.82
996.21

994.11
994.89

993.34
993.57

993.09
993.09

992.93

992.70

LEGEND

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

SEE MISCELLANEOUS QUANTITIES SHEET FOR EARTHWORK SUMMARY

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
11	100+77	3/4" IRON REBAR SET, 33.7' LT.	993.50

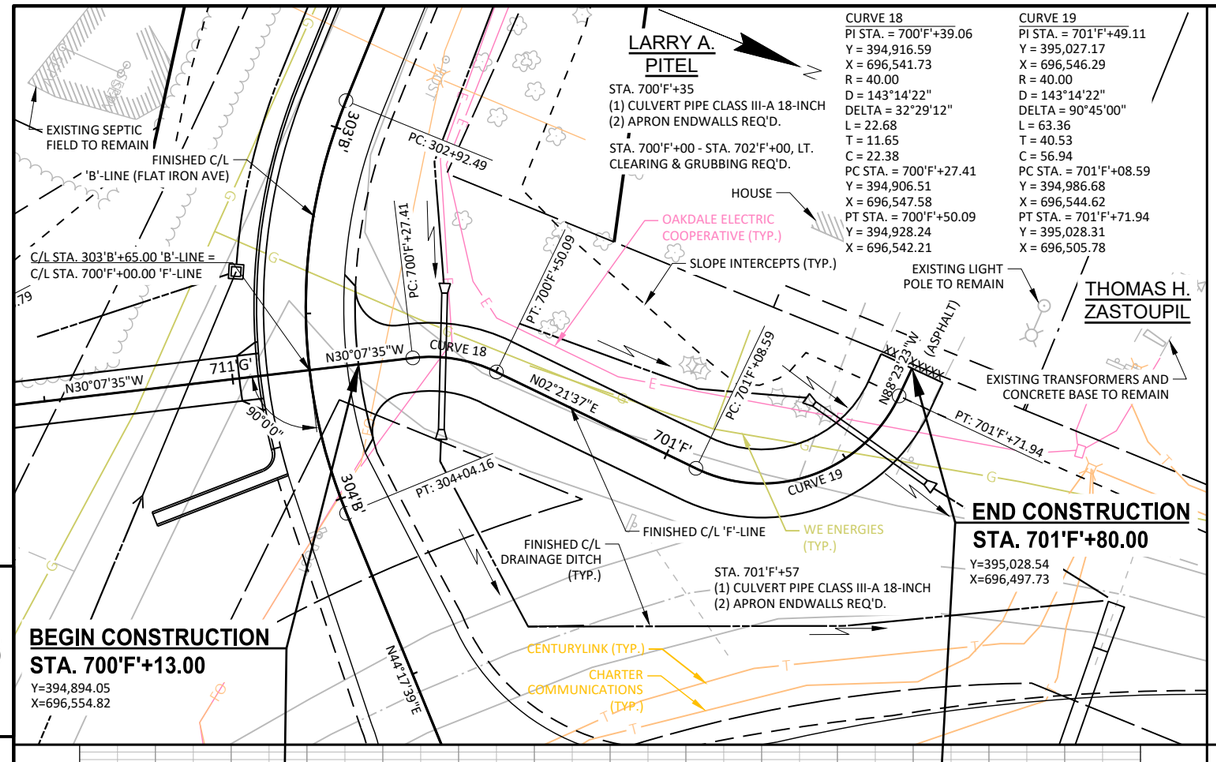
1010 1005 1000 995 990 985 980 975 970

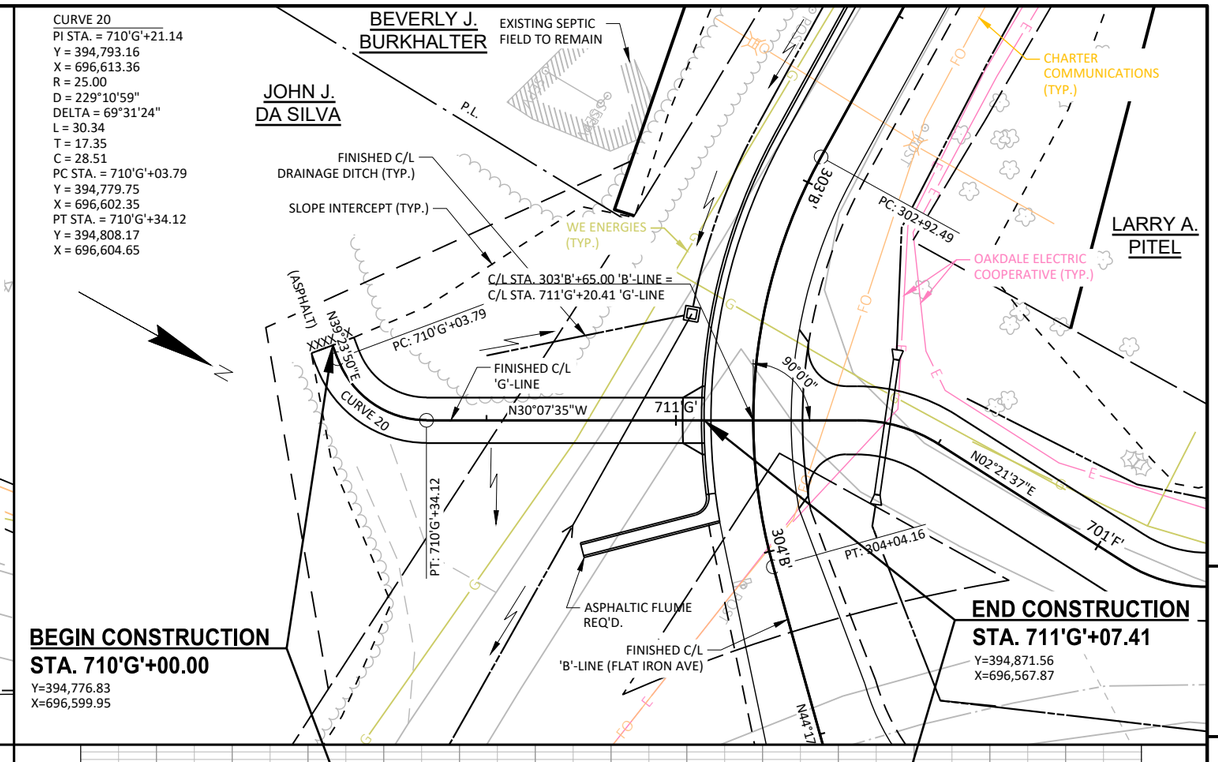
495'D'+50 496'D'+00 496'D'+50 497'D'+00 497'D'+50 498'D'+00 498'D'+50 499'D'+00 499'D'+50 500'D'+00 500'D'+50 501'D'+00 501'D'+50 502'D'+00 502'D'+50 503'D'+00 503'D'+50 504'D'+00 504'D'+50 505'D'+00 505'D'+50 506'D'+00 506'D'+50 507'D'+00 507'D'+50 508'D'+00 508'D'+50 509'D'+00 509'D'+50

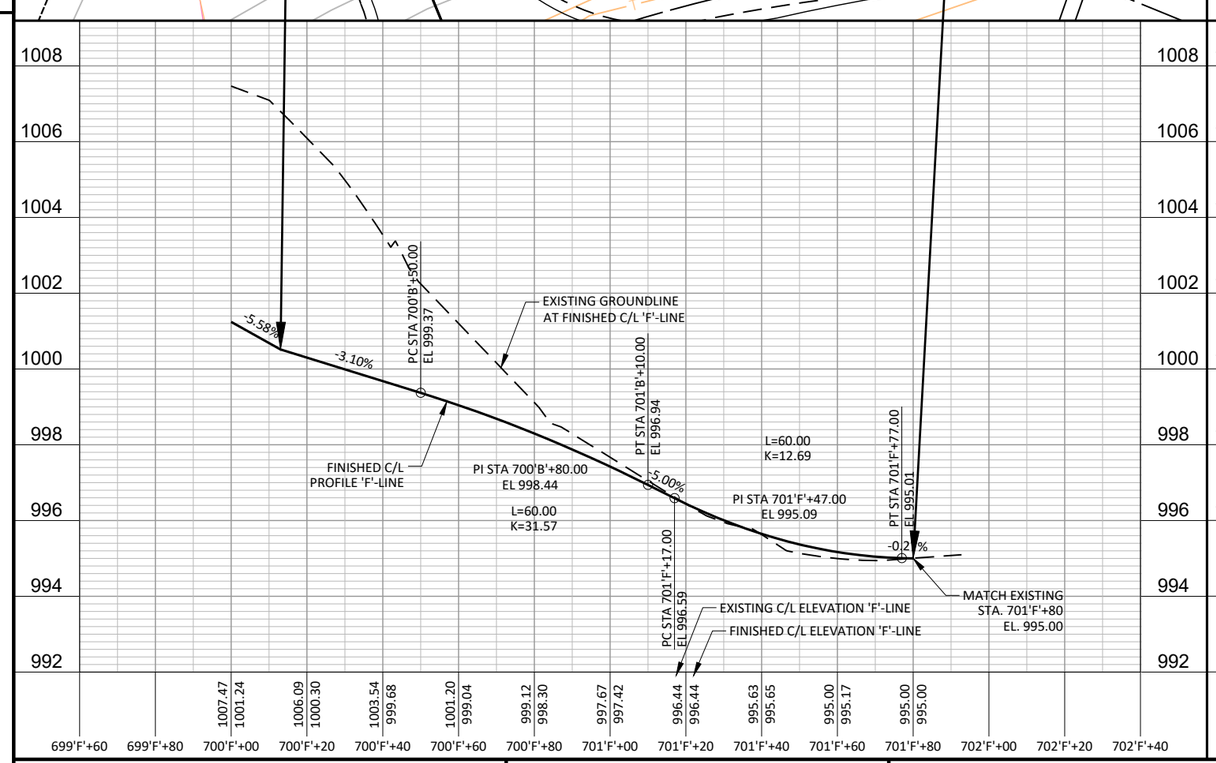
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'D'-LINE (FLARE AVE)	SHEET E

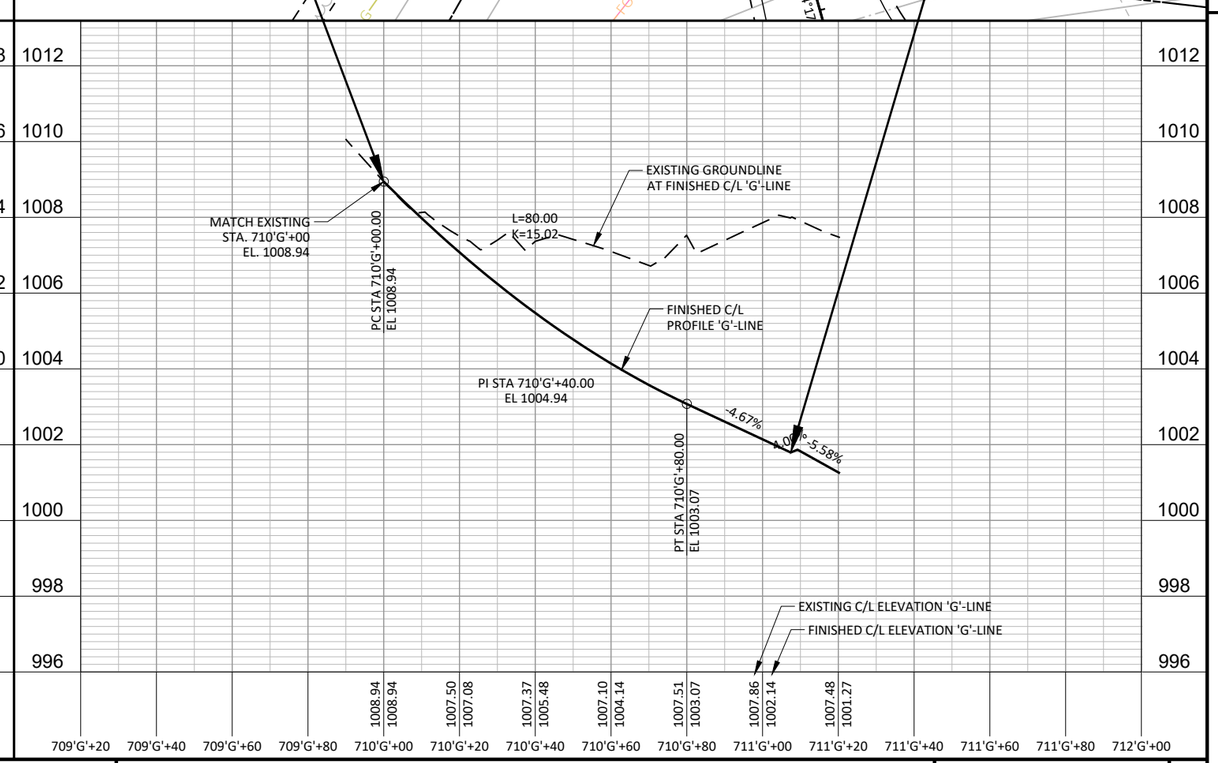
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P_FLARE AVE.DWG
LAYOUT NAME - 'D'-LINE (FLARE AVE)

PLOT DATE : 9/15/2020 1:33 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########









PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'F'-LINE (P.E.) & 'G'-LINE (P.E.)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\SHEETSPLAN\PLAN & PROFILE SHEETS\P&P_FLAT IRON AVE.DWG
LAYOUT NAME - 'F'-LINE (P.E.) 'G'-LINE (P.E.)
PLOT DATE : 9/15/2020 1:33 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : ##########

STA. 800'H'+00 - STA. 801'H'+00
CLEARING & GRUBBING REQ'D.

TODD L. GAVINSKI

WE ENERGIES

OAKDALE ELECTRIC COOPERATIVE

FINISHED C/L CTH ET

R/W

SLOPE INTERCEPTS

FINISHED C/L 'H'-LINE (DRAINAGE DITCH)

30'x30'

C/L STA. 25+88.87 MAINLINE =
C/L STA. 801'H'+63.65 'H'-LINE
(DRAINAGE DITCH)

90°5'6"

800'H'

N00°44'04"W

801'H'

TLE REQ'D.

CENTURYLINK

CHARTER COMMUNICATIONS

END CONSTRUCTION
STA. 801'H'+34.65
Y=394,822.80
X=697,341.59

BEGIN CONSTRUCTION
STA. 800'H'+00
Y=394,688.17
X=697,343.31

THOMAS H. ZASTOUPIL

5

N

PC: 70+80.10

CENTURYLINK (TYP.)

CHICAGO MILWAUKEE AND ST. PAUL RAILWAY COMPANY

FINISHED C/L CTH ET

R/W

112°32'11"

PC: 900'I'+36.84

PT: 69+82.12

CURVE 21

PT: 900'I'+84.20

PC: 900'I'+88.84

PT: 901'I'+11.71

901'I'

CURVE 22

SLOPE INTERCEPTS (TYP.)

TLE REQ'D.

C/L STA. 69+72.10 MAINLINE =
C/L STA. 900'I'+00.00 'I'-LINE

FINISHED C/L 'I'-LINE (DRAINAGE DITCH)

STA. 900'I'+31 - STA. 901'I'+35
CLEARING & GRUBBING REQ'D.

OAKDALE ELECTRIC COOPERATIVE (TYP.)

8'x26'

PC: 69+11.64

BEGIN CONSTRUCTION
STA. 900'I'+31.00
Y=398,603.62
X=696,483.40

END CONSTRUCTION
STA. 901'I'+35.00
Y=398,563.15
X=696,579.04

ARTHUR G. TRALMER

5

CURVE 21	CURVE 22
PI STA. = 900'I'+60.59	PI STA. = 901'I'+00.29
Y = 398,589.49	Y = 398,577.40
X = 696,509.40	X = 696,547.36
R = 250.00	R = 200.00
D = 22°55'06"	D = 28°38'52"
DELTA = 10°51'15"	DELTA = 6°33'04"
L = 47.36	L = 22.87
T = 23.75	T = 11.45
C = 47.29	C = 22.86
PC STA. = 900'I'+36.84	PC STA. = 900'I'+88.84
Y = 398,600.83	Y = 398,580.87
X = 696,488.53	X = 696,536.46
PT STA. = 900'I'+84.20	PT STA. = 901'I'+11.71
Y = 398,582.28	Y = 398,572.70
X = 696,532.03	X = 696,557.80

EXISTING GROUNDLINE AT FINISHED C/L 'H'-LINE

~ (3) PIPE ARCH CORRUGATED STEEL 57x38-INCH ~

0.52%

MATCH EXISTING STA. 800'H'+00 EL. 978.00

FINISHED C/L PROFILE 'H'-LINE (DRAINAGE DITCH)

STA. 801'H'+34.65 = STA. 25+88.87, 29.0' LT. EL. 978.70

EXISTING C/L ELEVATION 'H'-LINE (DRAINAGE DITCH)

FINISHED C/L ELEVATION 'H'-LINE (DRAINAGE DITCH)

EXISTING GROUNDLINE AT FINISHED C/L 'I'-LINE (DRAINAGE DITCH)

~ (3) CULVERT PIPE CLASS III-A 42-INCH ~

-0.60%

STA. 900'I'+31.00 = STA. 69+58.84, 28.20' RT. EL. 990.59

FINISHED C/L PROFILE 'I'-LINE (DRAINAGE DITCH)

MATCH EXISTING STA. 901'I'+35.00 EL. 989.97

EXISTING C/L ELEVATION 'I'-LINE (DRAINAGE DITCH)

FINISHED C/L ELEVATION 'I'-LINE (DRAINAGE DITCH)

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	PLAN AND PROFILE: 'H'-LINE (DRAINAGE DITCH) & 'I'-LINE (DRAINAGE DITCH)	SHEET E

EARTHWORK - MAINLINE

	AREA (SF)			INCREMENTAL VOLUME (CY)					CUMULATIVE VOLUME (CY)				
STATION	CUT	ROCK CUT	FILL	CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
11+00	0	0	0	0	0	0	0	0	0	0	0	0	0
12+00	44	0	57	81	0	106	0	133	81	0	106	133	-52
13+00	64	0	7	200	0	119	0	149	281	0	225	282	-1
14+00	75	0	0	257	0	13	0	16	538	0	238	298	240
15+00	49	0	15	230	0	28	0	35	768	0	266	333	435
16+00	15	0	37	119	0	96	0	120	887	0	362	453	434
17+00	4	0	161	35	0	367	0	459	922	0	729	912	10
18+00	28	0	82	59	0	450	0	563	981	0	1179	1475	-494
19+00	166	0	0	359	0	152	0	190	1340	0	1331	1665	-325
20+00	194	0	0	667	0	0	0	0	2007	0	1331	1665	342
21+00	23	0	24	402	0	44	0	55	2409	0	1375	1720	689
22+00	12	0	69	65	0	172	0	215	2474	0	1547	1935	539
23+00	52	0	32	119	0	187	0	234	2593	0	1734	2169	424
24+00	67	0	24	220	0	104	0	130	2813	0	1838	2299	514
25+00	67	0	14	248	0	70	0	88	3061	0	1908	2387	674
26+00	73	0	31	259	0	83	0	104	3320	0	1991	2491	829
27+00	53	0	43	233	0	137	0	171	3553	0	2128	2662	891
28+00	41	0	93	174	0	252	0	315	3727	0	2380	2977	750
28+00	35	0	53	0	0	0	0	0	3727	0	2380	2977	750
29+00	42	0	160	143	0	394	0	493	3870	0	2774	3470	400
29+00	69	0	160	0	0	0	0	0	3870	0	2774	3470	400
30+00	78	0	94	272	0	470	0	588	4142	0	3244	4058	84
31+00	118	0	86	363	0	333	0	416	4505	0	3577	4474	31
32+00	386	0	91	933	0	328	0	410	5438	0	3905	4884	554
32+50	77	0	155	429	0	228	0	285	5867	0	4133	5169	698
32+50	70	0	126	0	0	0	0	0	5867	0	4133	5169	698
33+00	64	0	129	124	0	236	0	295	5991	0	4369	5464	527
33+50	51	0	151	106	0	259	0	324	6097	0	4628	5788	309
33+50	119	0	202	0	0	0	0	0	6097	0	4628	5788	309
34+00	75	0	223	180	0	394	0	493	6277	0	5022	6281	-4
35+00	27	0	190	189	0	765	0	956	6466	0	5787	7237	-771
36+00	6	0	123	61	0	580	0	725	6527	0	6367	7962	-1435
37+00	1	0	135	13	0	478	0	598	6540	0	6845	8560	-2020
38+00	7	0	114	15	0	461	0	576	6555	0	7306	9136	-2581
39+00	28	0	86	65	0	370	0	463	6620	0	7676	9599	-2979
40+00	146	0	0	322	0	159	0	199	6942	0	7835	9798	-2856
41+00	175	0	0	594	0	0	0	0	7536	0	7835	9798	-2262
42+00	17	0	22	356	0	41	0	51	7892	0	7876	9849	-1957
43+00	6	0	138	43	0	296	0	370	7935	0	8172	10219	-2284
44+00	12	0	101	33	0	443	0	554	7968	0	8615	10773	-2805
45+00	61	0	0	135	0	187	0	234	8103	0	8802	11007	-2904
46+00	315	90	0	696	167	0	184	-230	8799	184	8802	10777	-1978
47+00	224	38	0	998	237	0	261	-326	9797	445	8802	10451	-654
48+00	53	0	79	513	70	146	77	86	10310	522	8948	10537	-227
49+00	4	0	153	106	0	430	0	538	10416	522	9378	11075	-659
50+00	6	0	165	19	0	589	0	736	10435	522	9967	11811	-1376
51+00	27	0	93	61	0	478	0	598	10496	522	10445	12409	-1913
52+00	70	0	26	180	0	220	0	275	10676	522	10665	12684	-2008
53+00	221	0	0	539	0	48	0	60	11215	522	10713	12744	-1529
54+00	404	0	0	1157	0	0	0	0	12372	522	10713	12744	-372
55+00	278	0	0	1263	0	0	0	0	13635	522	10713	12744	891
56+00	201	0	0	887	0	0	0	0	14522	522	10713	12744	1778
57+00	444	0	0	1194	0	0	0	0	15716	522	10713	12744	2972
58+00	157	0	0	1113	0	0	0	0	16829	522	10713	12744	4085
59+00	79	0	7	437	0	13	0	16	17266	522	10726	12760	4506
60+00	71	0	33	278	0	74	0	93	17544	522	10800	12853	4691
61+00	11	0	86	152	0	220	0	275	17696	522	11020	13128	4568
62+00	6	0	127	31	0	394	0	493	17727	522	11414	13621	4106
63+00	0	0	141	11	0	496	0	620	17738	522	11910	14241	3497
64+00	0	0	112	0	0	469	0	586	17738	522	12379	14827	2911
65+00	61	0	30	113	0	263	0	329	17851	522	12642	15156	2695

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - ROCK CUT	ROCK EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - ROCK (10%)	(ROCK CUT)*1.10
5 - FILL (25%)	(UNEXPANDED FILL)*1.25
6 - MASS ORDINATE	CUT + ROCK (10%) - FILL (25%)

EARTHWORK-MAINLINE CONTINUED

66+00	185	0	0	456	0	56	0	70	18307	522	12698	15226	3081
67+00	1051	0	0	2289	0	0	0	0	20596	522	12698	15226	5370
67+00	221	0	0	0	0	0	0	0	20596	522	12698	15226	5370
68+00	181	0	0	744	0	0	0	0	21340	522	12698	15226	6114
69+00	221	0	0	744	0	0	0	0	22084	522	12698	15226	6858
69+00	1182	0	0	0	0	0	0	0	22084	522	12698	15226	6858
69+50	355	0	0	1423	0	0	0	0	23507	522	12698	15226	8281
70+00	218	0	0	531	0	0	0	0	24038	522	12698	15226	8812
71+00	53	0	0	502	0	0	0	0	24540	522	12698	15226	9314
72+00	149	0	0	374	0	0	0	0	24914	522	12698	15226	9688
73+00	147	0	24	548	0	44	0	55	25462	522	12742	15281	10181
74+00	82	0	47	424	0	131	0	164	25886	522	12873	15445	10441
75+00	71	0	48	283	0	176	0	220	26169	522	13049	15665	10504
76+00	52	0	37	228	0	157	0	196	26397	522	13206	15861	10536
77+00	97	20	0	276	37	69	41	35	26673	563	13275	15896	10777
78+00	237	67	0	619	161	0	177	-221	27292	740	13275	15675	11617
79+00	70	0	2	569	124	4	136	-165	27861	876	13279	15510	12351
80+00	41	0	8	206	0	19	0	24	28067	876	13298	15534	12533
81+00	39	0	6	148	0	26	0	33	28215	876	13324	15567	12648
82+00	9	0	95	89	0	187	0	234	28304	876	13511	15801	12503
83+00	7	0	163	30	0	478	0	598	28334	876	13989	16399	11935
84+00	39	0	53	85	0	400	0	500	28419	876	14389	16899	11520
85+00	148	0	0	346	0	98	0	123	28765	876	14487	17022	11743
86+00	323	183	0	872	339	0	373	-466	29637	1249	14487	16556	13081
87+00	148	0	22	872	339	41	373	-415	30509	1622	14528	16141	14368
88+00	0	0	118	274	0	259	0	324	30783	1622	14787	16465	14318
89+00	4	0	122	7	0	444	0	555	30790	1622	15231	17020	13770
90+00	16	0	166	37	0	533	0	666	30827	1622	15764	17686	13141
91+00	68	0	176	156	0	633	0	791	30983	1622	16397	18477	12506
92+00	116	0	159	341	0	620	0	775	31324	1622	17017	19252	12072
93+00	95	0	41	391	0	370	0	463	31715	1622	17387	19715	12000
94+00	102	0	3	365	0	81	0	101	32080	1622	17468	19816	12264
95+00	17	0	196	220	0	369	0	461	32300	1622	17837	20277	12023
96+00	3	0	181	37	0	698	0	873	32337	1622	18535	21150	11187
97+00	20	0	71	43	0	467	0	584	32380	1622	19002	21734	10646
98+00	31	0	20	94	0	169	0	211	32474	1622	19171	21945	10529
99+00	33	0	23	119	0	80	0	100	32593	1622	19251	22045	10548
100+00	11	0	54	81	0	143	0	179	32674	1622	19394	22224	10450
100+00	11	0	30	0	0	0	0	0	32674	1622	19394	22224	10450
101+00	13	0	20	44	0	93	0	116	32718	1622	19487	22340	10378
102+00	43	0	0	104	0	37	0	46	32822	1622	19524	22386	10436
102+00	57	0	2	0	0	0	0	0	32822	1622	19524	22386	10436
103+00	220	0	0	513	0	4	0	5	33335	1622	19528	22391	10944
104+00	98	0	8	589	0	15	0	19	33924	1622	19543	22410	11514
105+00	63	0	17	298	0	46	0	58	34222	1622	19589	22468	11754
106+00	86	0	2	276	0	35	0	44	34498	1622	19624	22512	11986
107+00	94	0	0	333	0	4	0	5	34831	1622	19628	22517	12314
108+00	112	0	0	381	0	0	0	0	35212	1622	19628	22517	12695
109+00	122	0	0	433	0	0	0	0	35645	1622	19628	22517	13128
110+00	153	0	0	509	0	0	0	0	36154	1622	19628	22517	13637
111+00	166	0	0	591	0	0	0	0	36745	1622	19628	22517	14228
112+00	146	0	1	578	0	2	0	3	37323	1622	19630	22520	14803
113+00	65	0	1	391	0	4	0	5	37714	1622	19634	22525	15189
114+00	69	0	4	248	0	9	0	11	37962	1622	19643	22536	15426
115+00	101	0	13	315	0	31	0	39	38277	1622	19674	22575	15702
115+27	137	0	20	119	0	16	0	20	38396	1622	19690	22595	15801
	MAINLINE COLUMN SUBTOTALS =			38396	1474	19690	1622	22595	38396	1622	19690	22595	15801

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - ROCK CUT	ROCK EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - ROCK (10%)	(ROCK CUT)*1.10
5 - FILL (25%)	(UNEXPANDED FILL)*1.25
6 - MASS ORDINATE	CUT + ROCK (10%) - FILL (25%)

EARTHWORK - GOLIATH RD

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
200'A'+00	0	0	0	0	0	0	0	0	0	0	0	0	0
200'A'+50	22	0	26	20	0	24	0	30	20	0	24	30	-10
201'A'+00	0	0	194	20	0	204	0	255	40	0	228	285	-245
201'A'+18	0	0	165	0	0	122	0	153	40	0	350	438	-398
COLUMN SUBTOTALS =				40	0	350	0	438	40	0	350	438	-398

EARTHWORK - FLAT IRON AVE

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
299'B'+90	0	0	0	0	0	0	0	0	0	0	0	0	0
300'B'+00	0	0	0	0	0	0	0	0	0	0	0	0	0
300'B'+50	74	0	1	69	0	1	0	1	69	0	1	1	68
301'B'+00	61	0	13	125	0	13	0	16	194	0	14	17	177
301'B'+50	124	0	0	171	0	12	0	15	365	0	26	32	333
302'B'+00	343	0	0	432	0	0	0	0	797	0	26	32	765
302'B'+50	591	0	0	865	0	0	0	0	1662	0	26	32	1630
303'B'+00	584	0	0	1088	0	0	0	0	2750	0	26	32	2718
303'B'+50	638	0	0	1131	0	0	0	0	3881	0	26	32	3849
304'B'+00	720	0	0	1257	0	0	0	0	5138	0	26	32	5106
304'B'+50	515	0	0	1144	0	0	0	0	6282	0	26	32	6250
304'B'+95	0	0	285	432	0	239	0	299	6714	0	265	331	6383
COLUMN SUBTOTALS =				6714	0	265	0	331	6714	0	265	331	6383

EARTHWORK - FLAGSHIP AVE

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
400'C'+00	0	0	0	0	0	0	0	0	0	0	0	0	0
400'C'+50	47	0	13	44	0	12	0	15	44	0	12	15	29
401'C'+00	82	0	0	119	0	12	0	15	163	0	24	30	133
401'C'+50	299	0	0	353	0	0	0	0	516	0	24	30	486
402'C'+00	1359	0	0	1535	0	0	0	0	2051	0	24	30	2021
402'C'+50	1804	0	0	2929	0	0	0	0	4980	0	24	30	4950
403'C'+00	2083	0	0	3599	0	0	0	0	8579	0	24	30	8549
403'C'+50	2128	0	0	3899	0	0	0	0	12478	0	24	30	12448
404'C'+00	1827	0	0	3662	0	0	0	0	16140	0	24	30	16110
404'C'+16	786	0	0	762	0	0	0	0	16902	0	24	30	16872
COLUMN SUBTOTALS =				16902	0	24	0	30	16902	0	24	30	16872

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - ROCK CUT	ROCK EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - ROCK (10%)	(ROCK CUT)*1.10
5 - FILL (25%)	(UNEXPANDED FILL)*1.25
6 - MASS ORDINATE	CUT + ROCK (10%) - FILL (25%)

EARTHWORK - FLARE AVE

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
500'D'+18	0	0	157	0	0	0	0	0	0	0	0	0	0
500'D'+50	34	0	33	20	0	113	0	141	20	0	113	141	-121
501'D'+00	42	0	6	70	0	36	0	45	90	0	149	186	-96
501'D'+50	0	0	0	39	0	6	0	8	129	0	155	194	-65
COLUMN SUBTOTALS =				129	0	155	0	194	129	0	155	194	-65

EARTHWORK - STH 21

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
599'E'+60	9	0	1	0	0	0	0	0	0	0	0	0	0
600'E'+00	11	0	0	15	0	1	0	1	15	0	1	1	14
600'E'+50	12	0	0	21	0	0	0	0	36	0	1	1	35
601'E'+00	20	0	0	30	0	0	0	0	66	0	1	1	65
601'E'+00	4	0	0	0	0	0	0	0	66	0	1	1	65
601'E'+50	4	0	0	7	0	0	0	0	73	0	1	1	72
602'E'+00	14	0	0	17	0	0	0	0	90	0	1	1	89
602'E'+50	14	0	0	26	0	0	0	0	116	0	1	1	115
602'E'+50	16	0	20	0	0	0	0	0	116	0	1	1	115
603'E'+00	9	0	16	23	0	33	0	41	139	0	34	42	97
603'E'+45	0	0	0	8	0	13	0	16	147	0	47	58	89
COLUMN SUBTOTALS =				147	0	47	0	58	147	0	47	58	89

EARTHWORK - 'F' LINE

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
700'F'+13	324	0	0	0	0	0	0	0	0	0	0	0	0
700'F'+50	217	0	0	371	0	0	0	0	371	0	0	0	371
701'F'+00	53	0	0	250	0	0	0	0	621	0	0	0	621
701'F'+50	87	0	0	130	0	0	0	0	751	0	0	0	751
701'F'+80	0	0	0	48	0	0	0	0	799	0	0	0	799
COLUMN SUBTOTALS =				799	0	0	0	0	799	0	0	0	799

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - ROCK CUT	ROCK EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - ROCK (10%)	(ROCK CUT)*1.10
5 - FILL (25%)	(UNEXPANDED FILL)*1.25
6 - MASS ORDINATE	CUT + ROCK (10%) - FILL (25%)

EARTHWORK - 'G' LINE

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
710'G'+00	27	0	0	0	0	0	0	0	0	0	0	0	0
710'G'+50	337	0	3	337	0	3	0	4	337	0	3	4	333
711'G'+00	316	0	0	605	0	3	0	4	942	0	6	8	934
711'G'+07	363	0	0	93	0	0	0	0	1035	0	6	8	1027
COLUMN SUBTOTALS =				1035	0	6	0	8	1035	0	6	8	1027

EARTHWORK - 'H' LINE

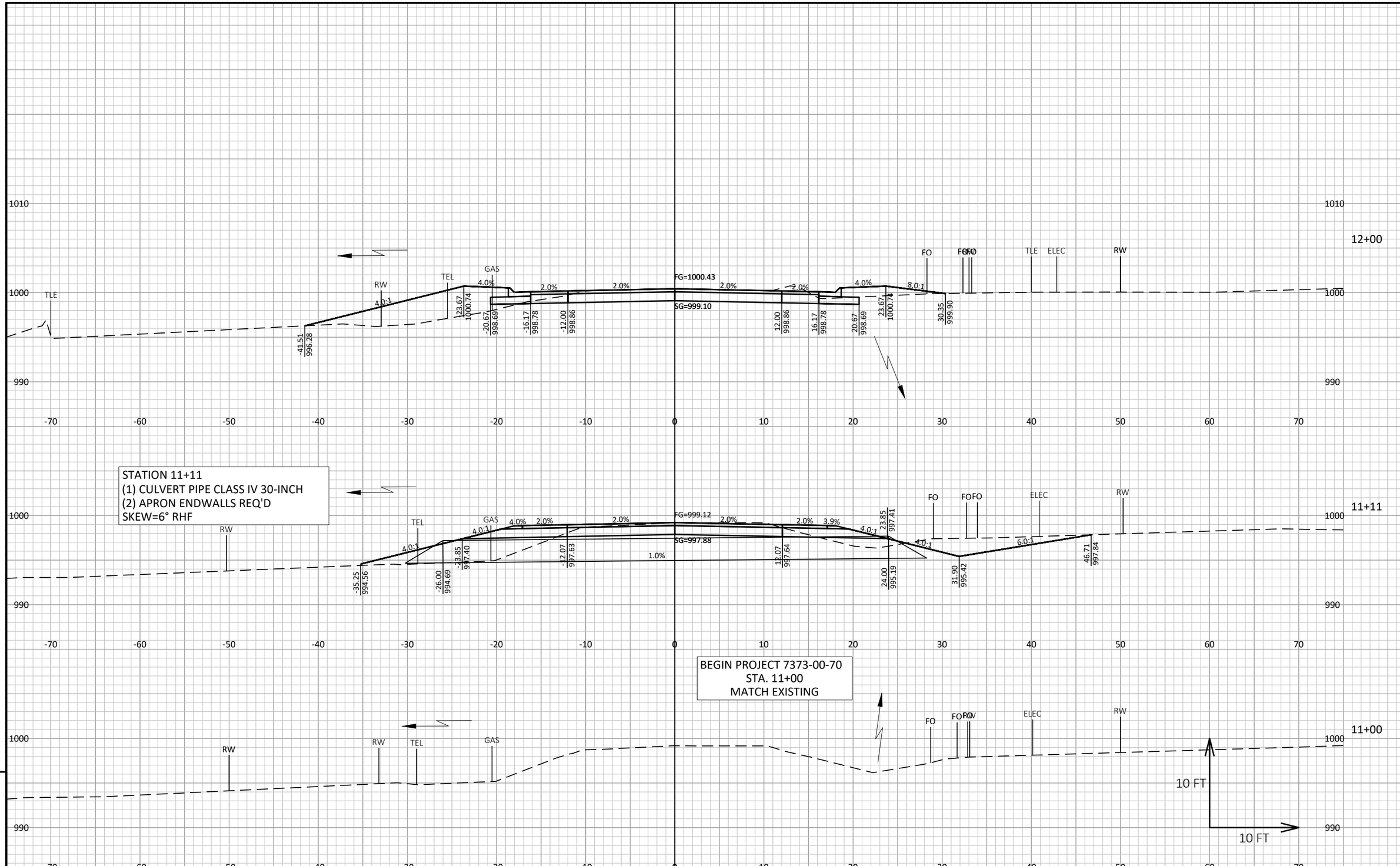
STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
800'H'+00	0	0	0	0	0	0	0	0	0	0	0	0	0
800'H'+25	3	0	0	1	0	0	0	0	1	0	0	0	1
800'H'+50	6	0	0	4	0	0	0	0	5	0	0	0	5
800'H'+75	14	0	0	9	0	0	0	0	14	0	0	0	14
801'H'+00	38	0	0	24	0	0	0	0	38	0	0	0	38
801'H'+25	66	0	0	48	0	0	0	0	86	0	0	0	86
801'H'+35	71	0	0	25	0	0	0	0	111	0	0	0	111
COLUMN SUBTOTALS =				111	0	0	0	0	111	0	0	0	111

EARTHWORK - 'I' LINE

STATION	AREA (SF) CUT	ROCK CUT	FILL	INCREMENTAL VOLUME (CY) CUT NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	ROCK (10%) NOTE 4	FILL (25%) NOTE 5	CUMULATIVE VOLUME (CY) CUT 1.00 NOTE 1	ROCK CUT NOTE 2	FILL NOTE 3	FILL (25%) NOTE 5	MASS ORDINATE NOTE 6
900'H'+31	266	0	0	0	0	0	0	0	0	0	0	0	0
900'H'+50	425	0	0	243	0	0	0	0	243	0	0	0	243
900'H'+75	65	0	0	227	0	0	0	0	470	0	0	0	470
901'H'+00	17	0	0	38	0	0	0	0	508	0	0	0	508
901'H'+25	1	0	0	8	0	0	0	0	516	0	0	0	516
901'H'+35	0	0	0	0	0	0	0	0	516	0	0	0	516
COLUMN SUBTOTALS =				516	0	0	0	0	516	0	0	0	516

MAINLINE	38396	1474	19690	1622	22595	38396	1622	19690	22595	15801
GOLIATH RD	40	0	350	0	438	38436	1622	20040	23033	15403
FLAT IRON AVE	6714	0	265	0	331	45150	1622	20305	23364	21786
FLAGSHIP AVE	16902	0	24	0	30	62052	1622	20329	23394	38658
FLARE AVE	129	0	155	0	194	62181	1622	20484	23588	38593
STH 21	147	0	47	0	58	62328	1622	20531	23646	38682
'F' LINE	799	0	0	799	799	63127	1622	20531	23646	39481
'G' LINE	1035	0	6	0	8	64162	1622	20537	23654	40508
'H' LINE	111	0	0	0	0	64273	1622	20537	23654	40619
'I' LINE	516	0	0	0	0	64789	1622	20537	23654	41135

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - ROCK CUT	ROCK EXCAVATION
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - ROCK (10%)	(ROCK CUT)*1.10
5 - FILL (25%)	(UNEXPANDED FILL)*1.25
6 - MASS ORDINATE	CUT + ROCK (10%) - FILL (25%)

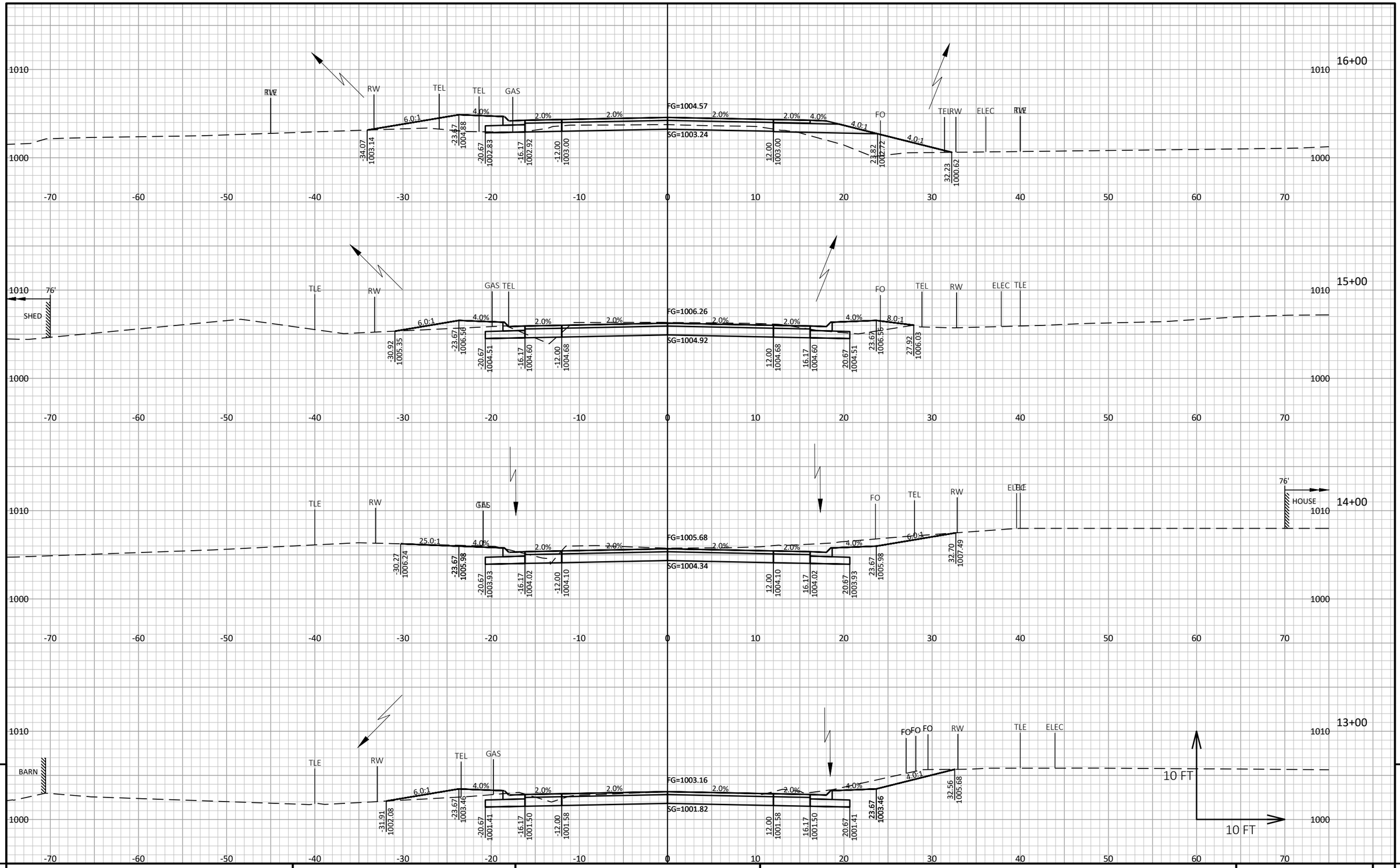


9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 1
PLOT DATE : 9/15/2020 1:35 PM
PLOT BY : JONAH DRAKE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



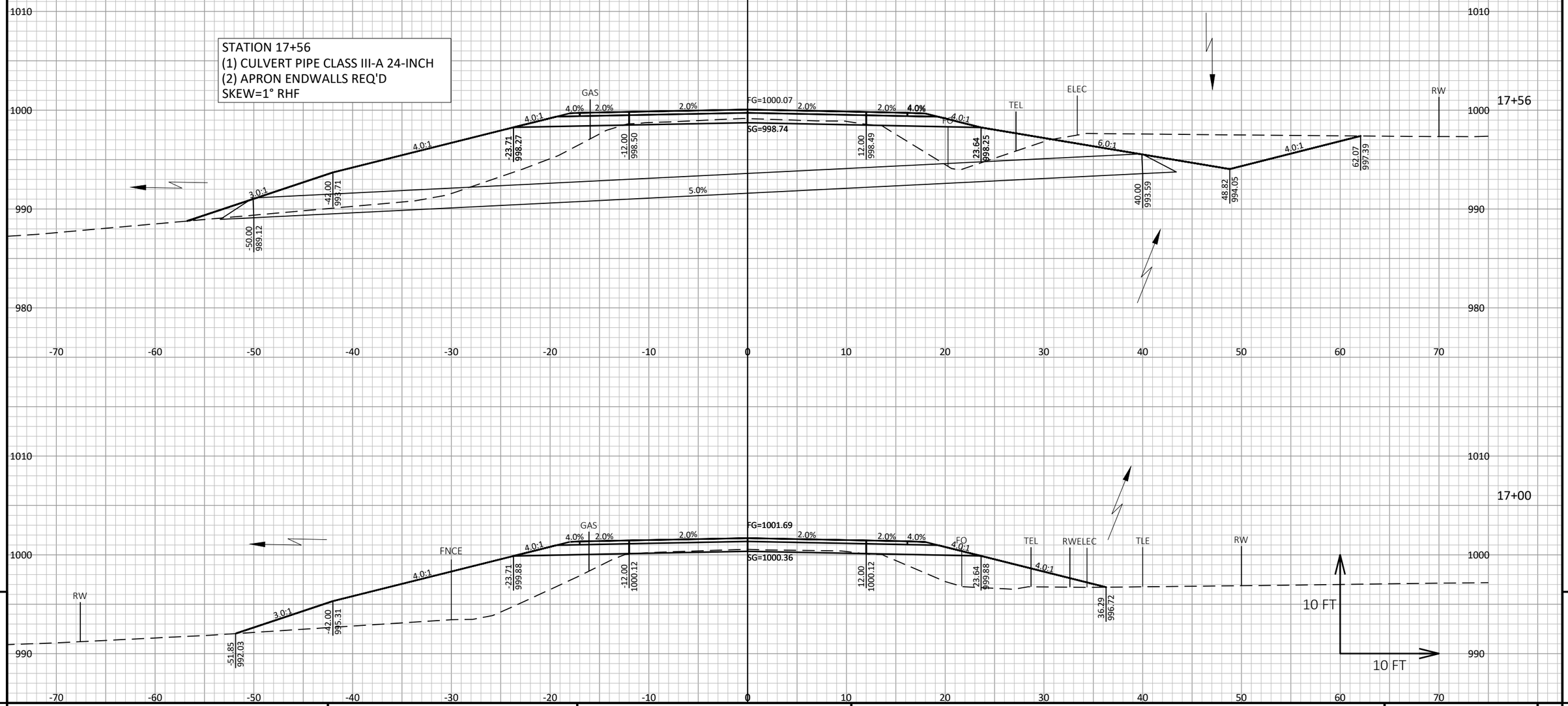
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 2

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 17+56
(1) CULVERT PIPE CLASS III-A 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW=1° RHF

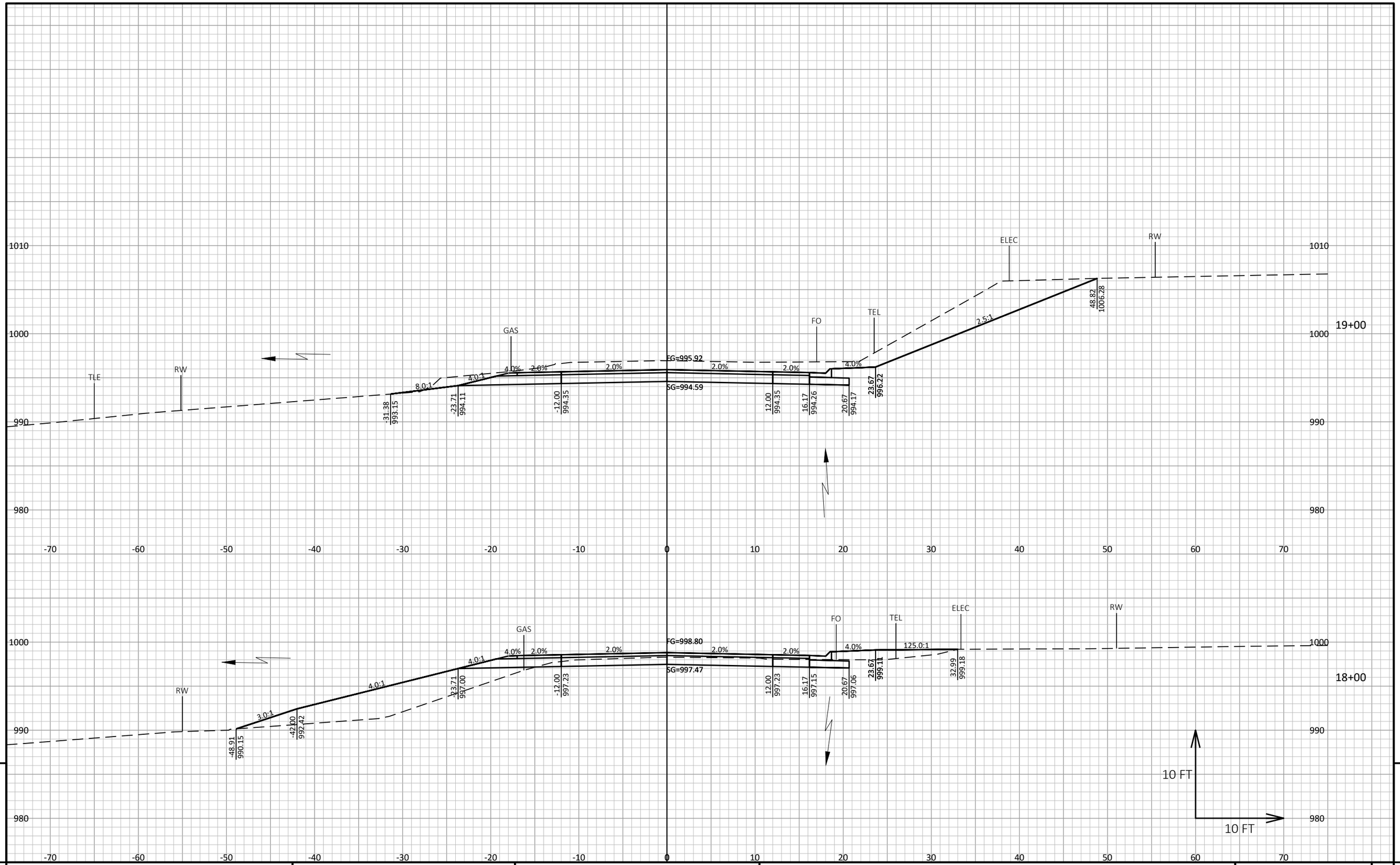


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 3

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

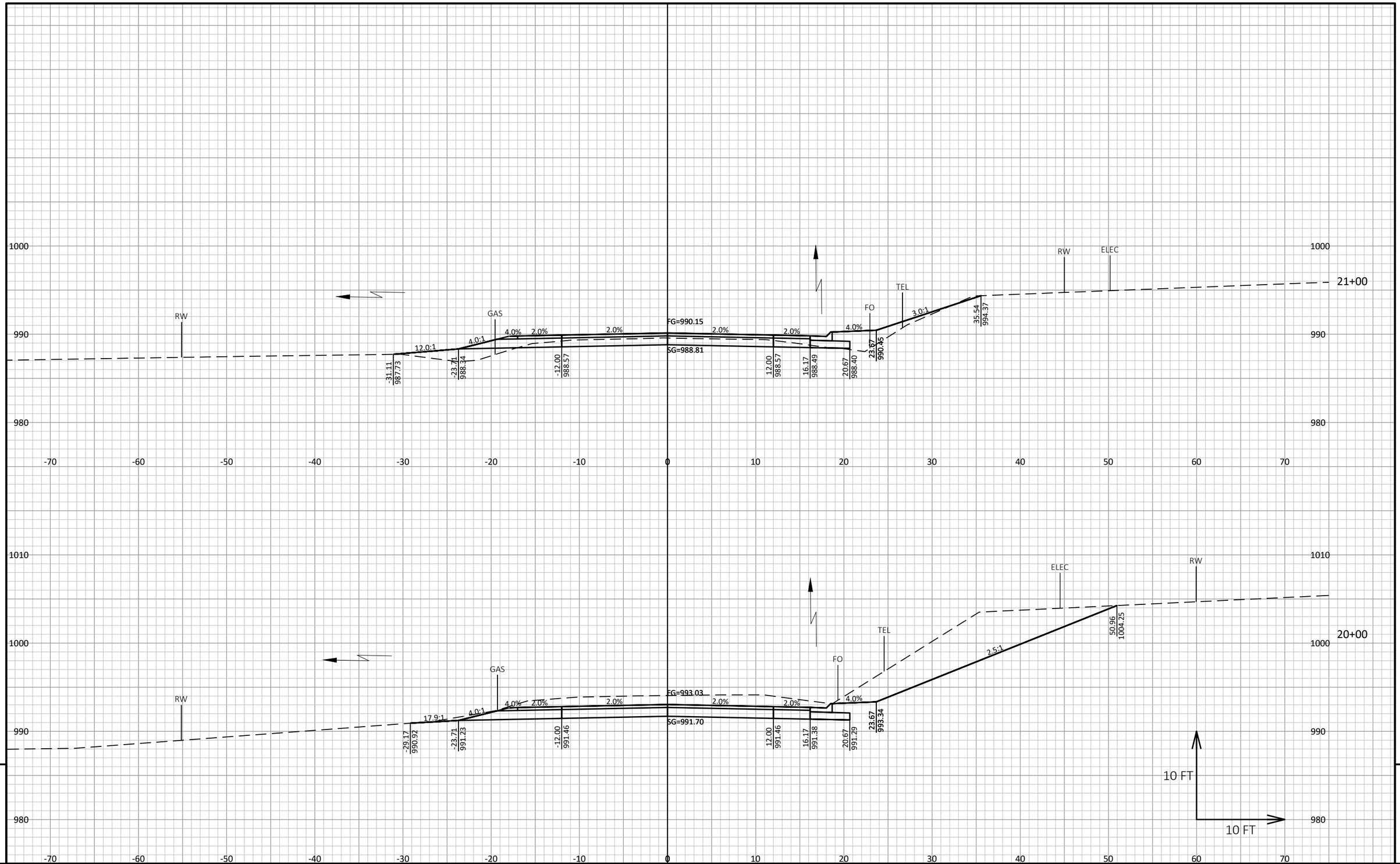


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 4

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

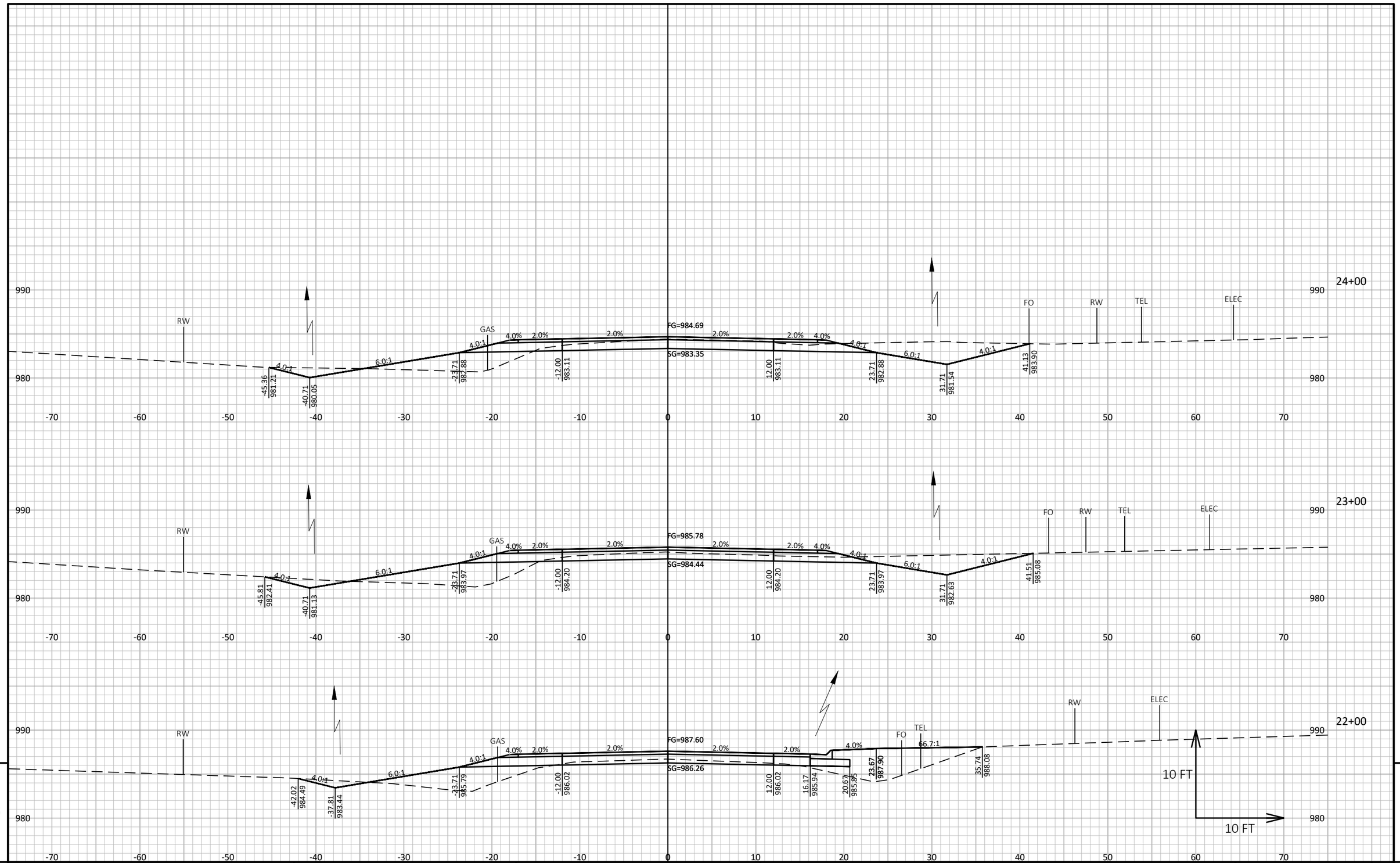


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 5

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 6

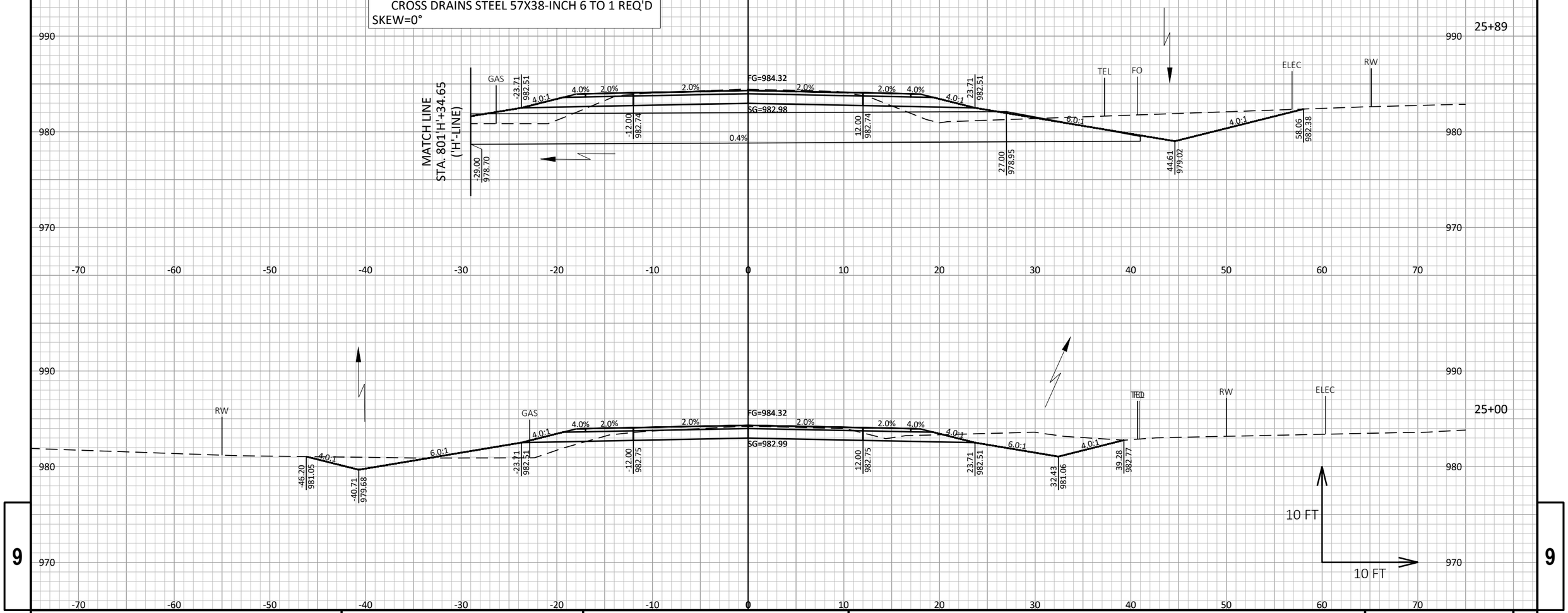
PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 25+81
(1) PIPE ARCH CORRUGATED STEEL 57X38-INCH
(2) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 57X38-INCH 6 TO 1 REQ'D
SKEW=0°

STATION 25+89
(1) PIPE ARCH CORRUGATED STEEL 57X38-INCH
(2) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 57X38-INCH 6 TO 1 REQ'D
SKEW=0°

STATION 25+97
(1) PIPE ARCH CORRUGATED STEEL 57X38-INCH
(2) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 57X38-INCH 6 TO 1 REQ'D
SKEW=0°

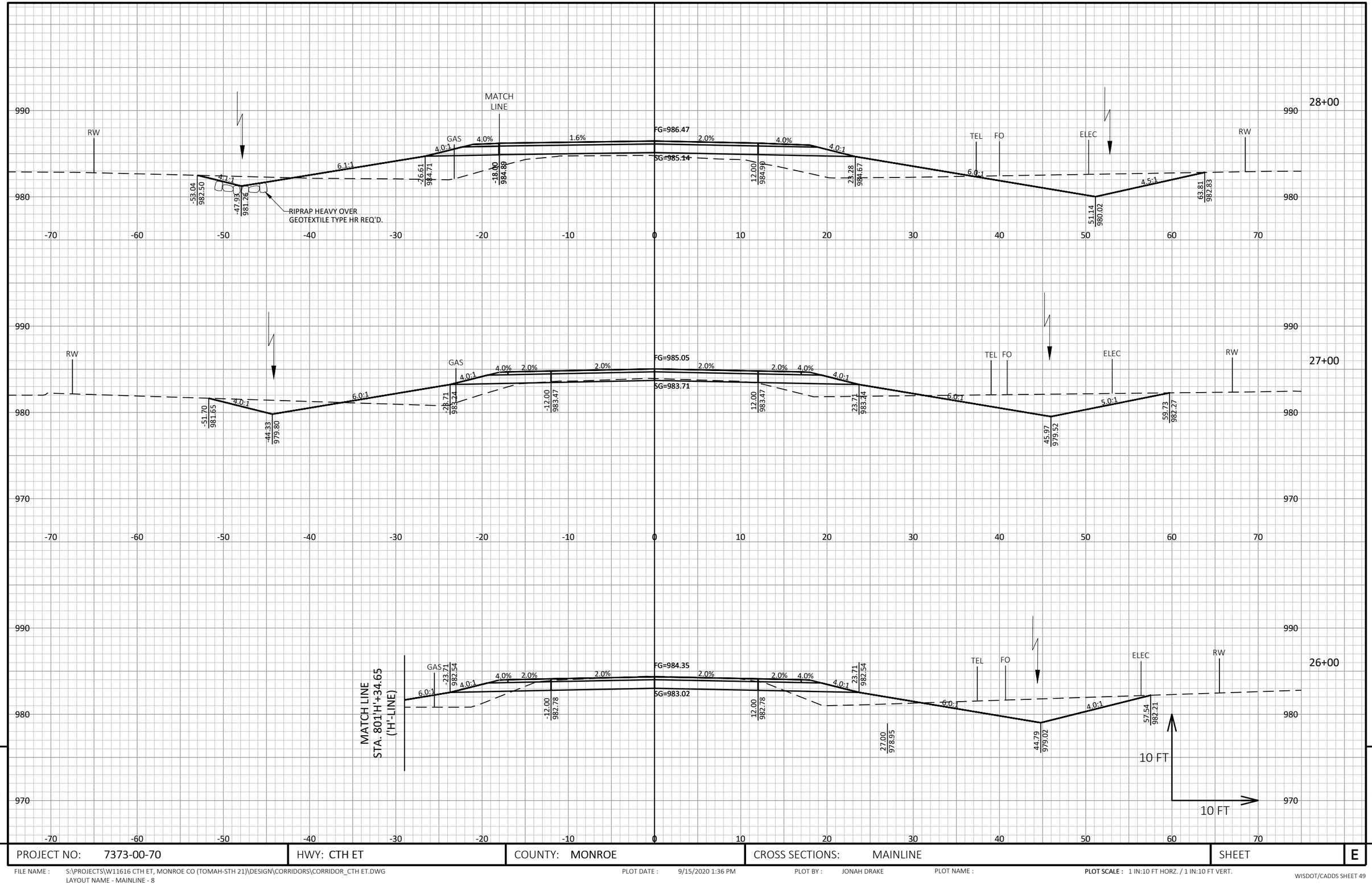


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 7

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

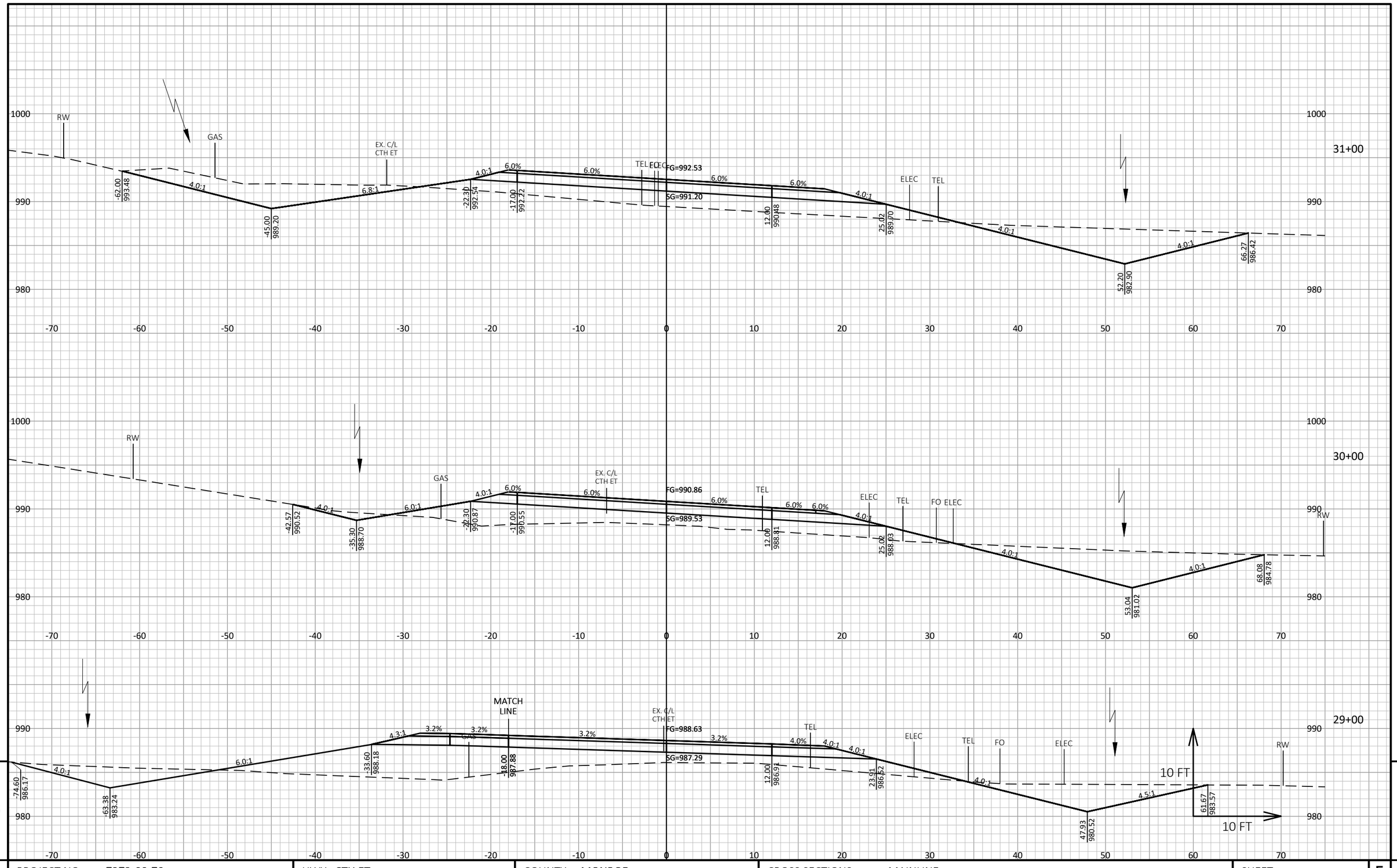


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 8

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

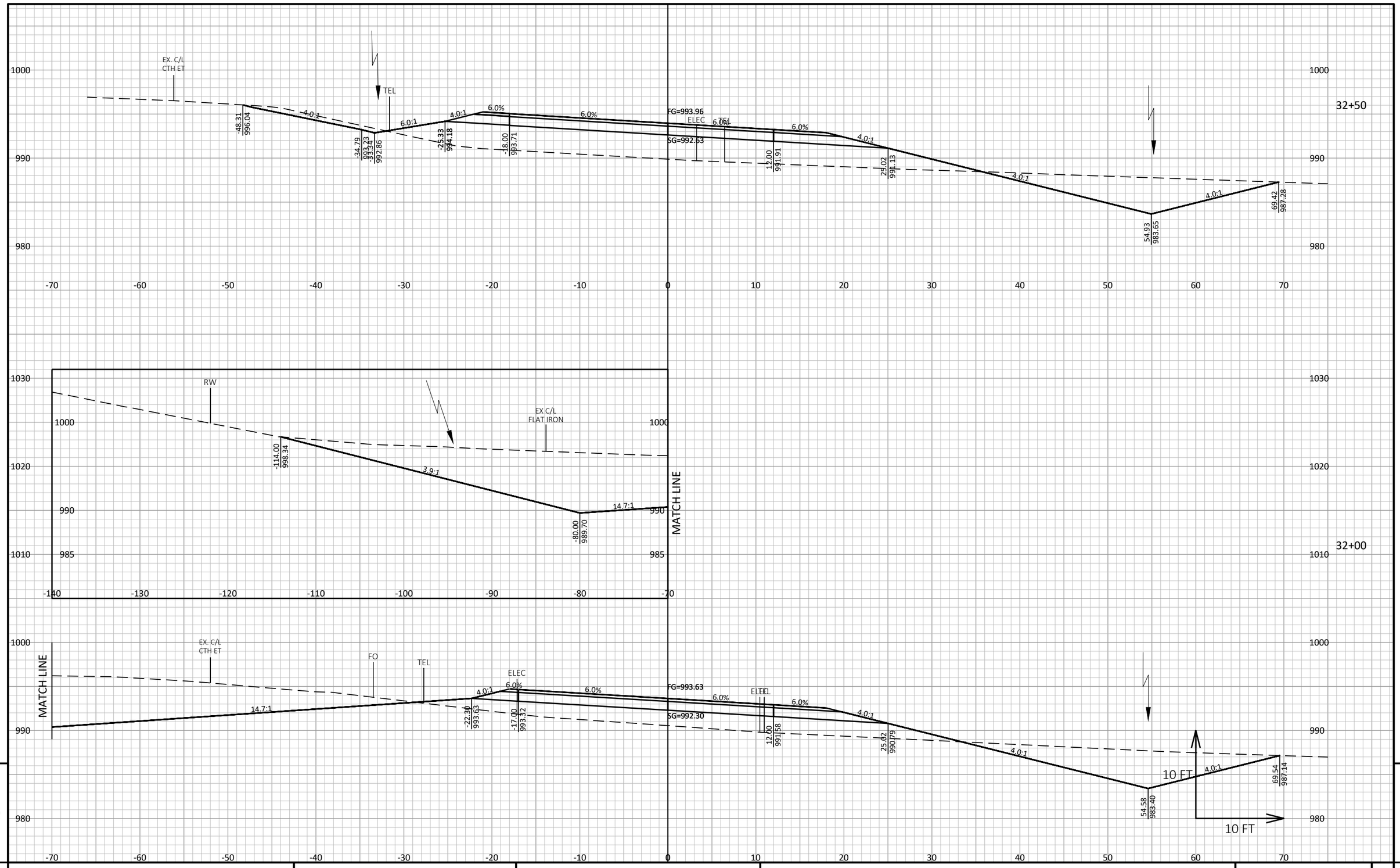
WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 9

PLOT DATE : 9/15/2020 1:36 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

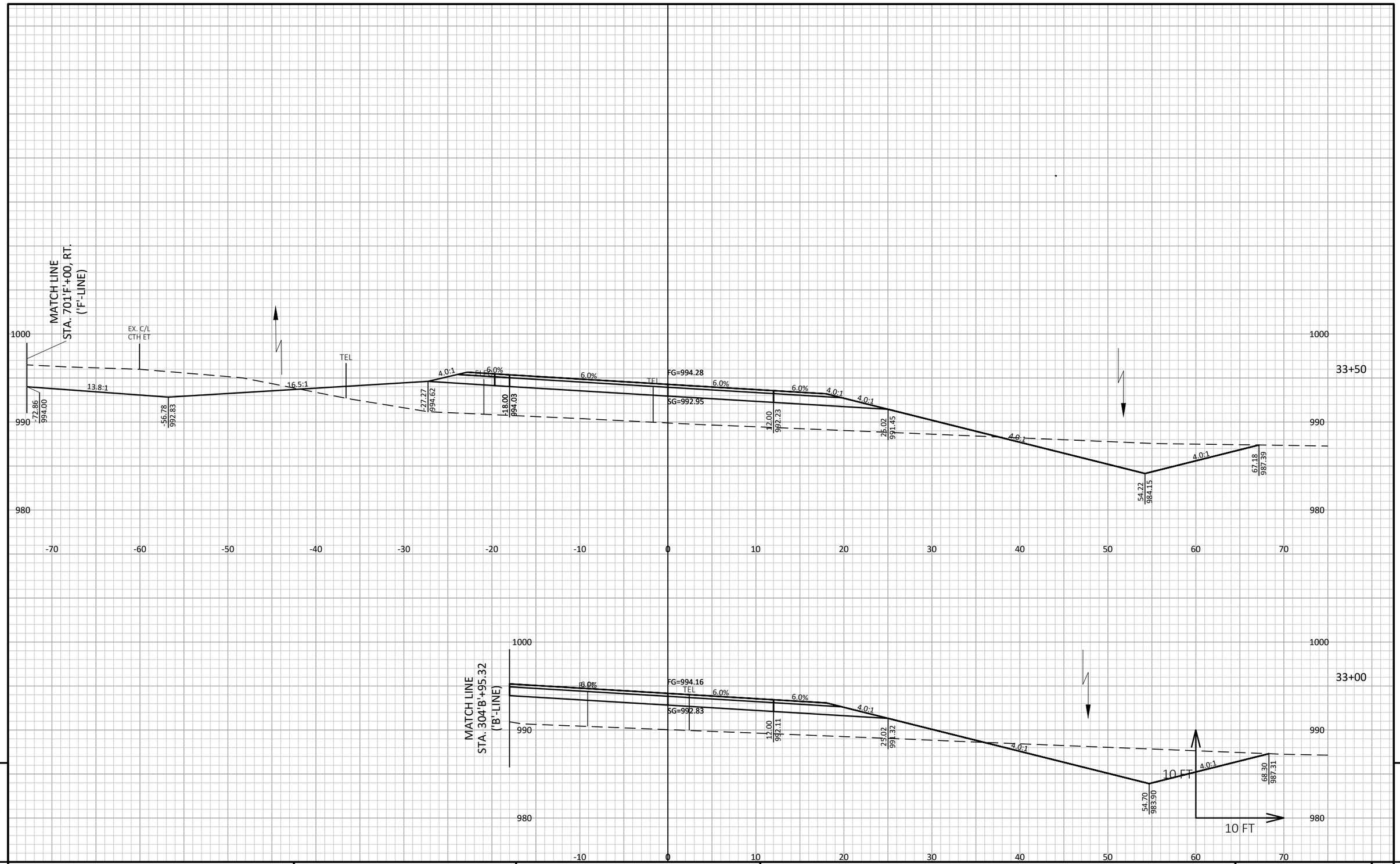


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 10

PLOT DATE : 9/15/2020 1:37 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 11

PLOT DATE : 9/15/2020 1:37 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 34+50
(1) CULVERT PIPE CLASS III 48-INCH
(1) APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 48-INCH 4 TO 1 REQ'D.
(1) APRON ENDWALLS FOR CULVERT PIPE SLOPED CROSS DRAINS STEEL 48-INCH 6 TO 1 REQ'D.
SKEW=24° LHF

34+50

GAS
EX. C/L CTH ET
14.7:1
4.0:1
4.4:1
5.8%
5.8%
FG=994.64
5.7%
5.7%
FLEC
SG=993.31
3.3%
4.4:1
6.5:1
3.6:1
-69.00 991.01
-45.39 989.40
-32.00 988.97
-24.20 994.72
-13.05 994.07
13.26 992.56
27.63 991.75
34.00 986.82
65.10 986.00
70.86 987.58

34+00

'F'-LINE (P.E.) C/L
MATCH LINE STA. 701'F'+50 ('F'-LINE)
6.0:1
2.7%
1.5%
SG=995.10
-103.93 993.46
-93.71 994.86
-75.30 994.97
MATCH LINE

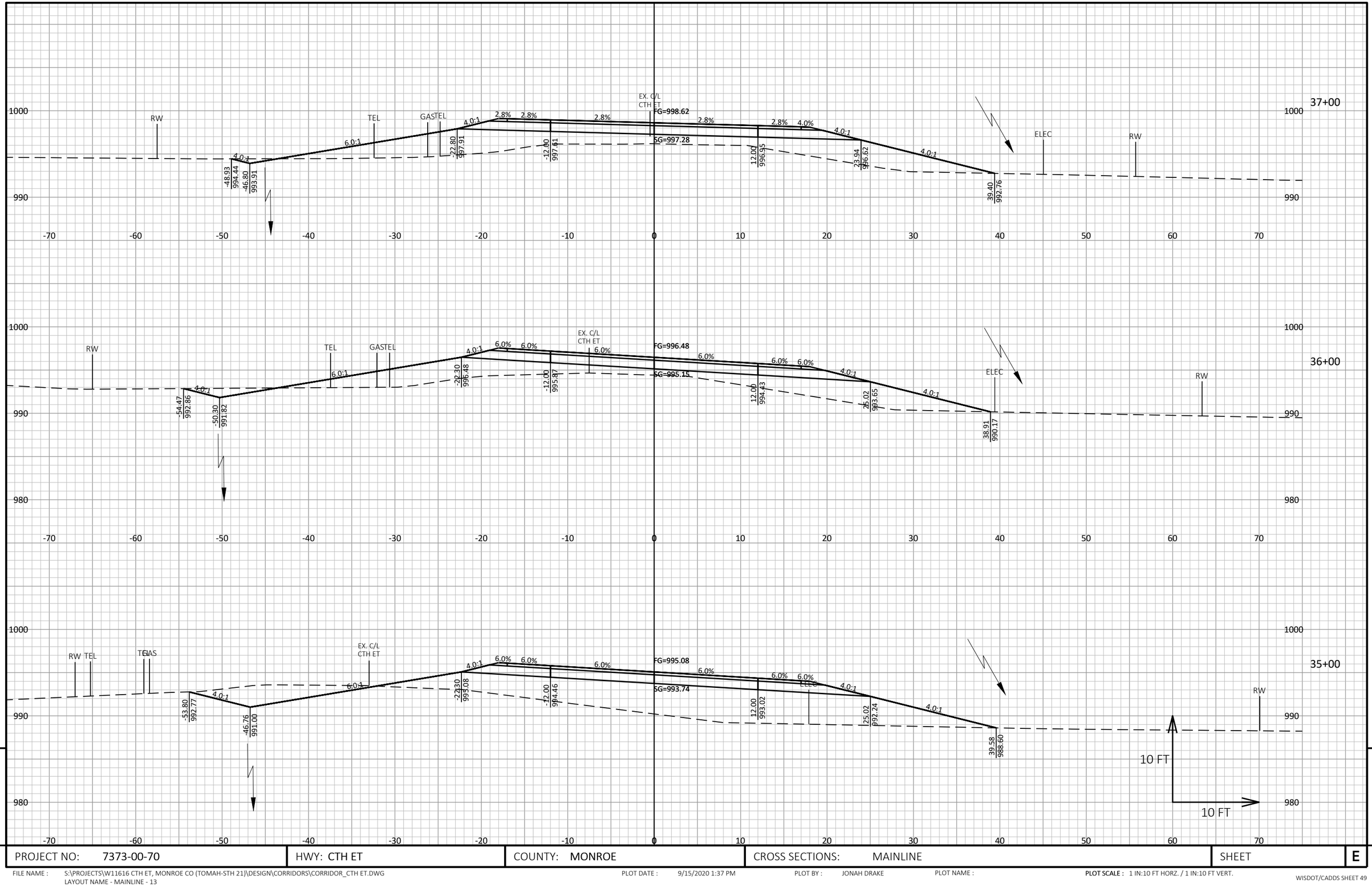
FOR INFORMATION ONLY
EARTHWORK QUANTITIES INCLUDED IN 'F'-LINE (P.E.) QUANTITIES

MATCH LINE
EX. C/L CTH ET
TEL
8.2:1
6.0:1
4.0:1
6.0%
6.0%
FG=994.41
6.0%
6.0%
FLEC TEL
SG=993.07
4.0:1
4.0:1
4.0:1
RW
10 FT
10 FT
-43.47 991.00
-22.83 994.44
-15.52 994.00
12.00 992.35
25.02 991.57
53.72 984.40
66.33 987.55

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 12
PLOT DATE : 9/15/2020 1:37 PM
PLOT BY : JONAH DRAKE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

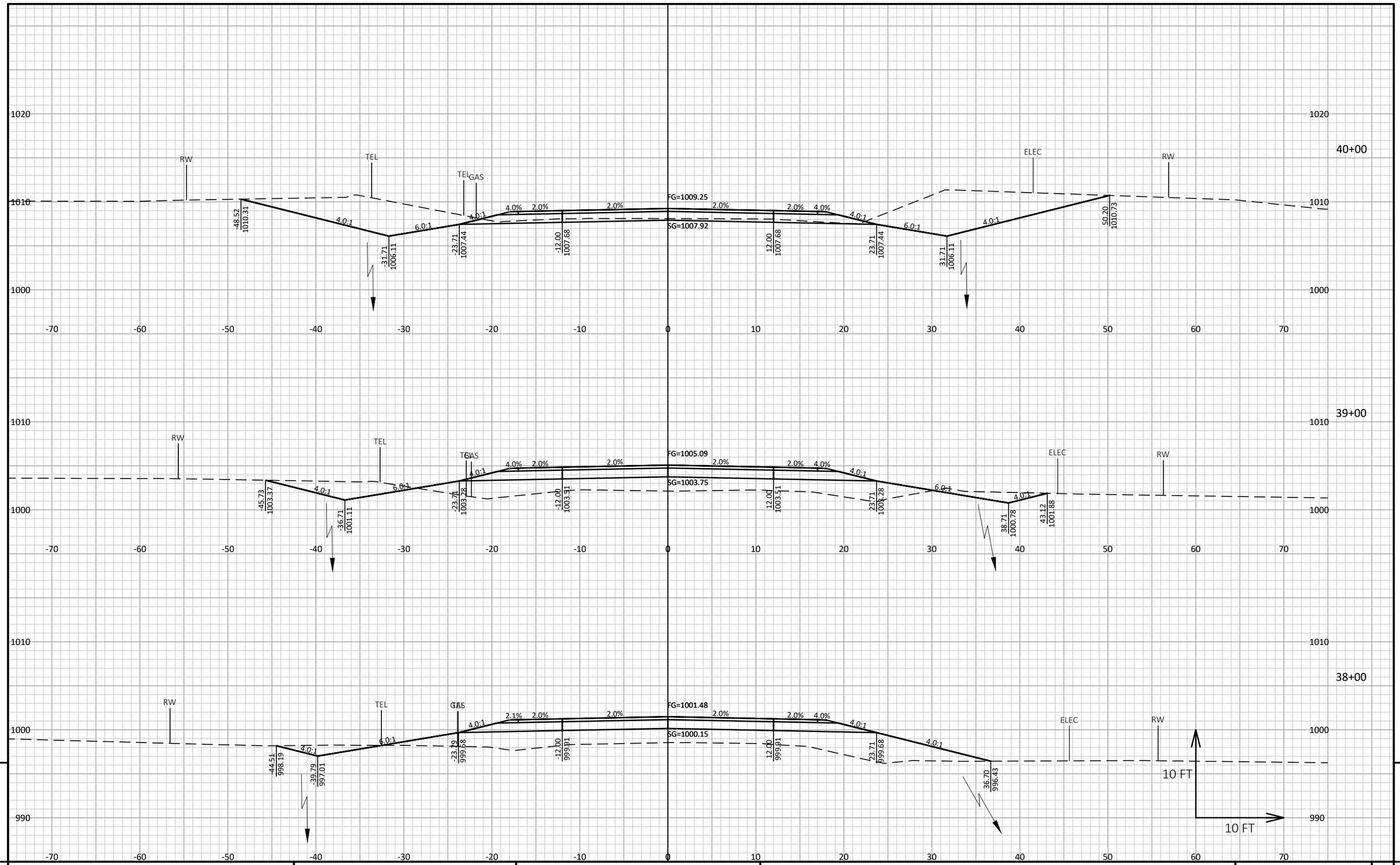
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 13

PLOT DATE : 9/15/2020 1:37 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

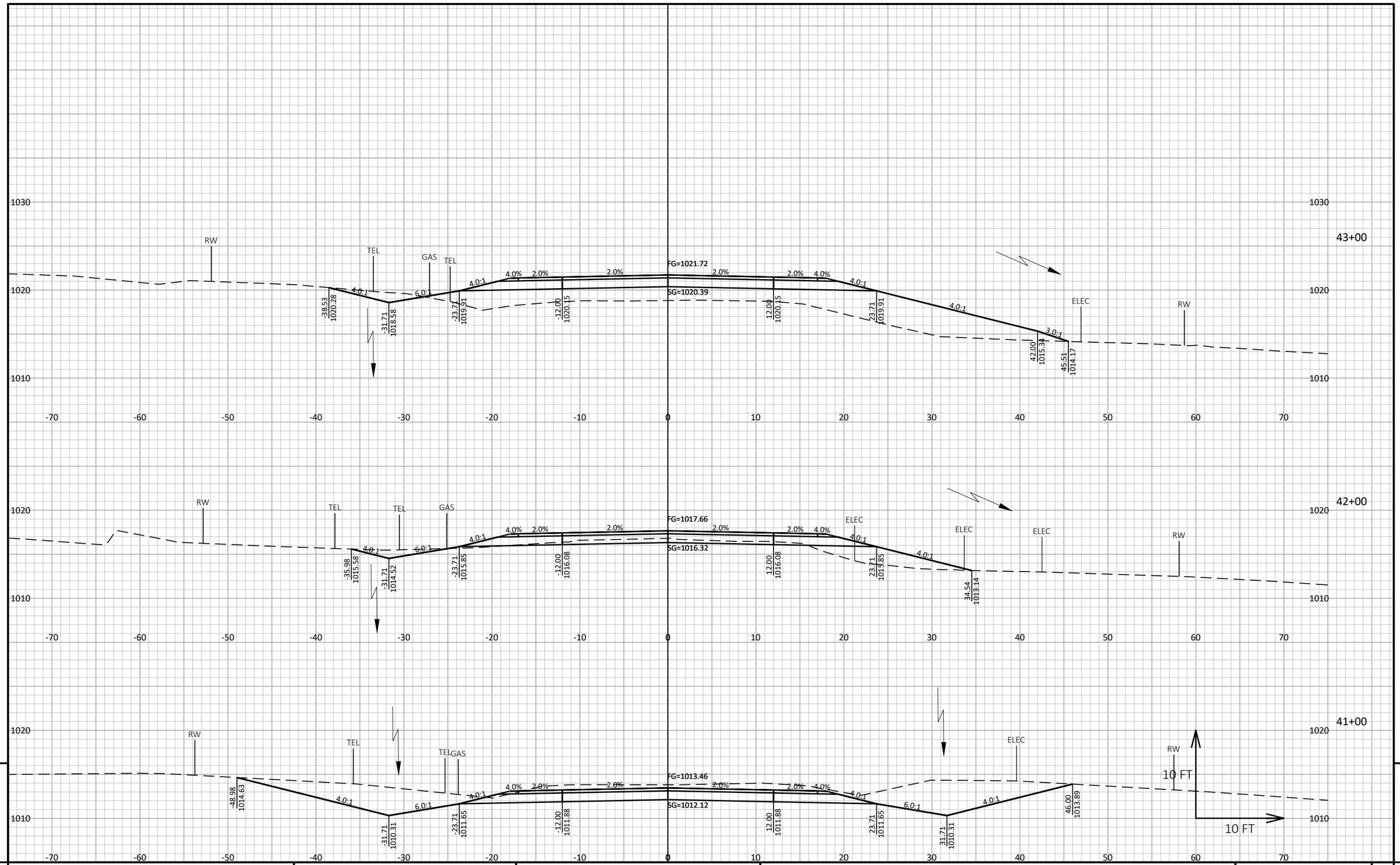


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 14

PLOT DATE : 9/15/2020 1:37 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



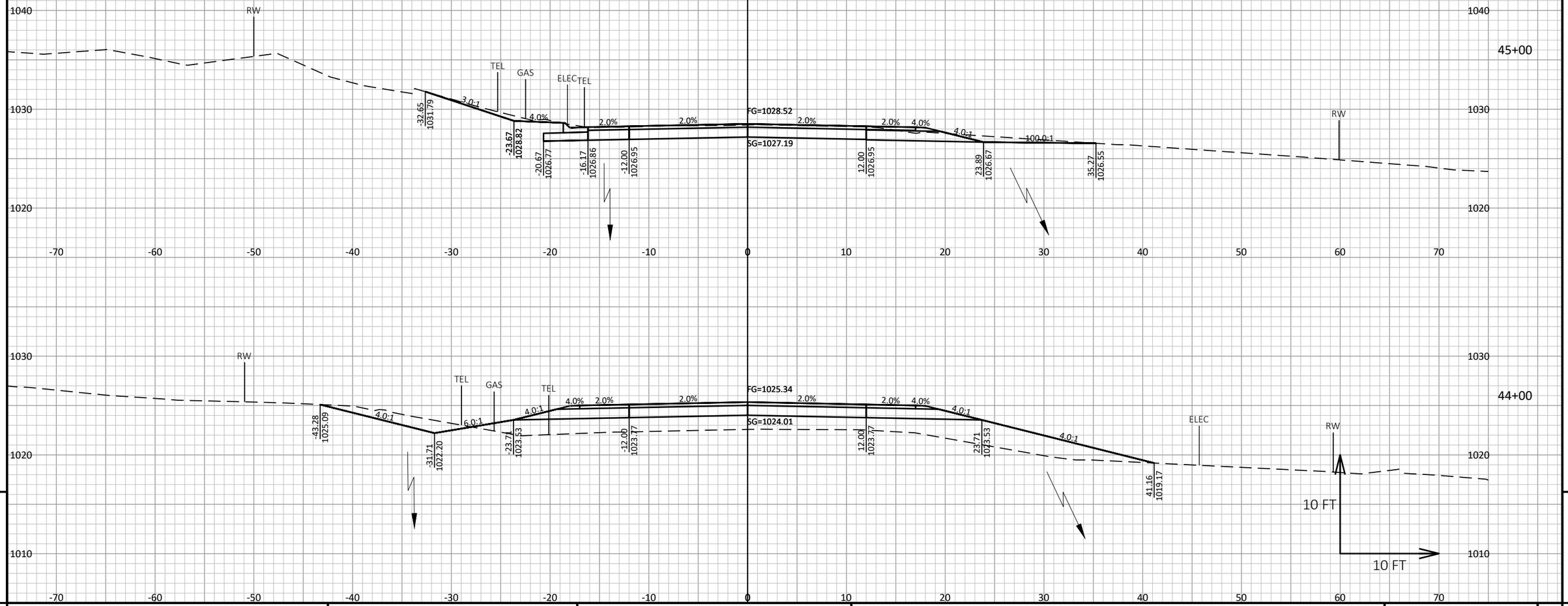
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 15

PLOT DATE : 9/15/2020 1:37 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 16

PLOT DATE : 9/15/2020 1:37 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

LIMITS OF EXCAVATION ROCK

RW

-60.50
1046.32

3.0:1

TEL

GAS

ELEC

TEL

4.0%

2.0%

2.0%

2.0%

2.0%

4.0%

4.0:1

10.0:1

FG=1033.86

SG=1032.53

-23.67
1034.16

-20.67
1032.11

-16.17
1032.20

-12.00
1032.29

12.00
1032.29

23.89
1032.01

40.88
1030.31

RW

47+00

1050
1040
1030
1020

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

LIMITS OF EXCAVATION ROCK

RW

-53.29
1043.41

3.5:1

TEL

ELEC

GAS

TEL

4.0%

2.0%

2.0%

2.0%

2.0%

4.0%

4.0:1

6.0:1

6.0:1

FG=1031.26

SG=1029.93

-23.67
1031.56

-20.67
1029.52

-16.17
1029.60

-12.00
1029.69

12.00
1029.69

23.89
1029.41

31.89
1028.08

51.95
1031.43

RW

10 FT

10 FT

46+00

1050
1040
1030
1020

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 17

PLOT DATE : 9/15/2020 1:37 PM

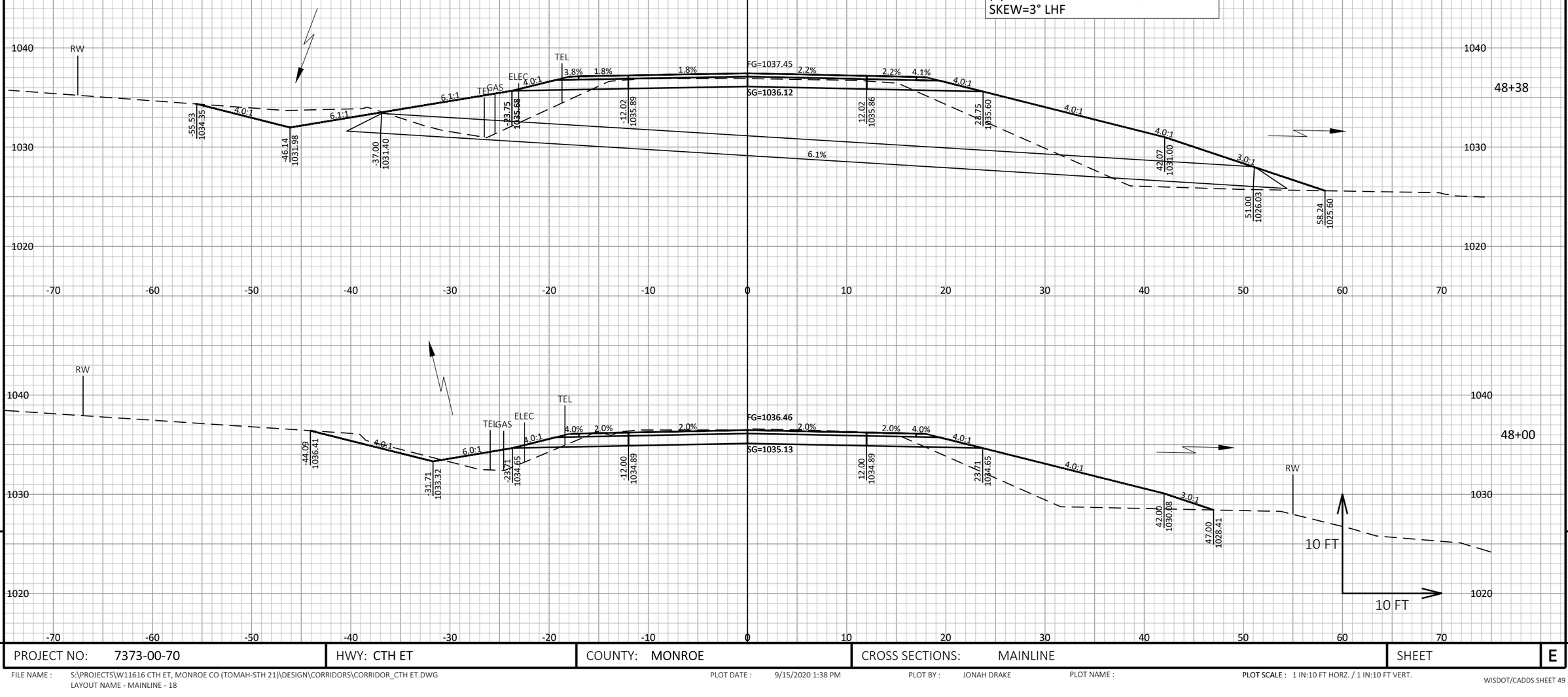
PLOT BY : JONAH DRAKE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

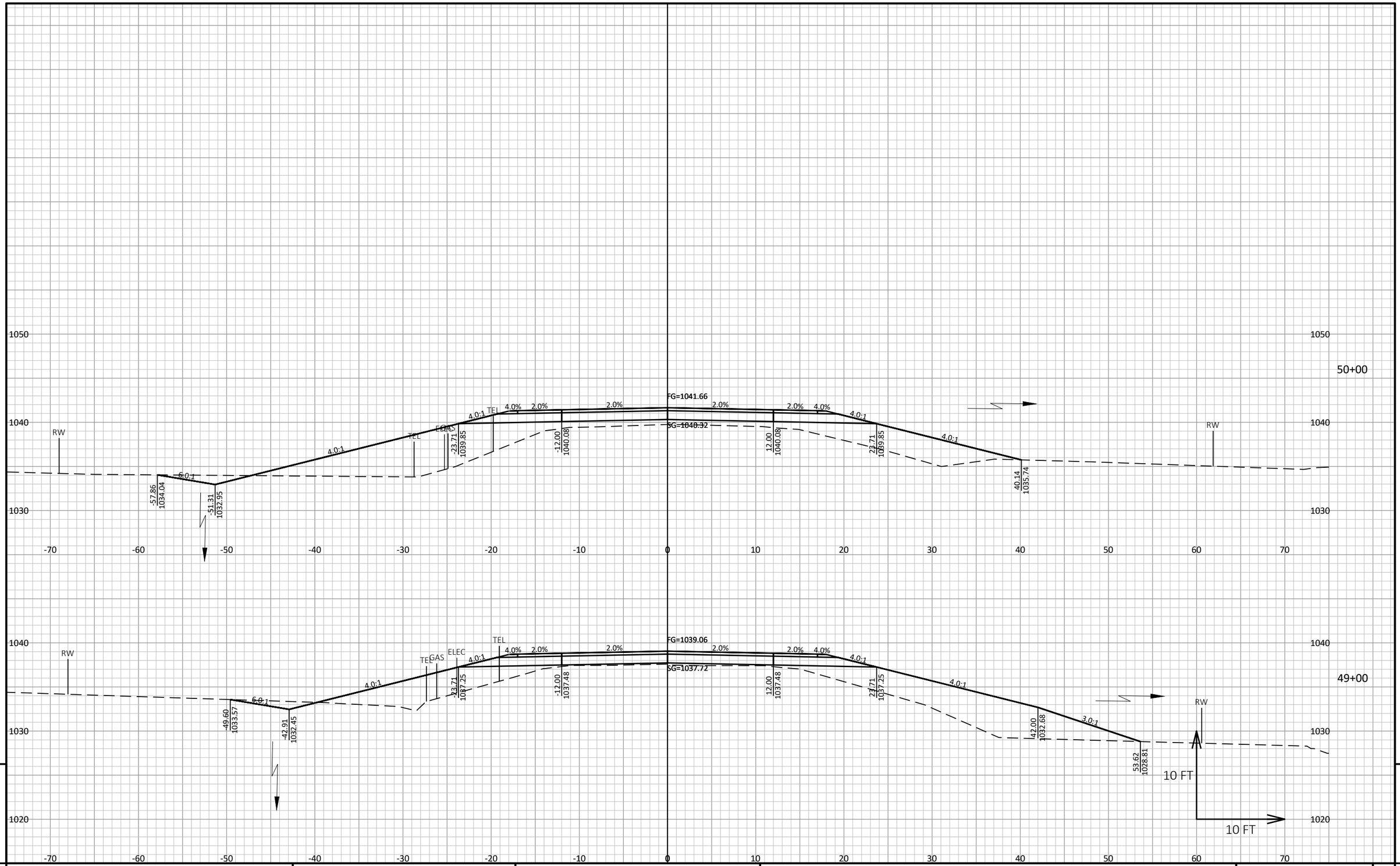
STATION 48+38
(1) CULVERT PIPE CLASS III-A 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW=3° LHF



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 18

PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



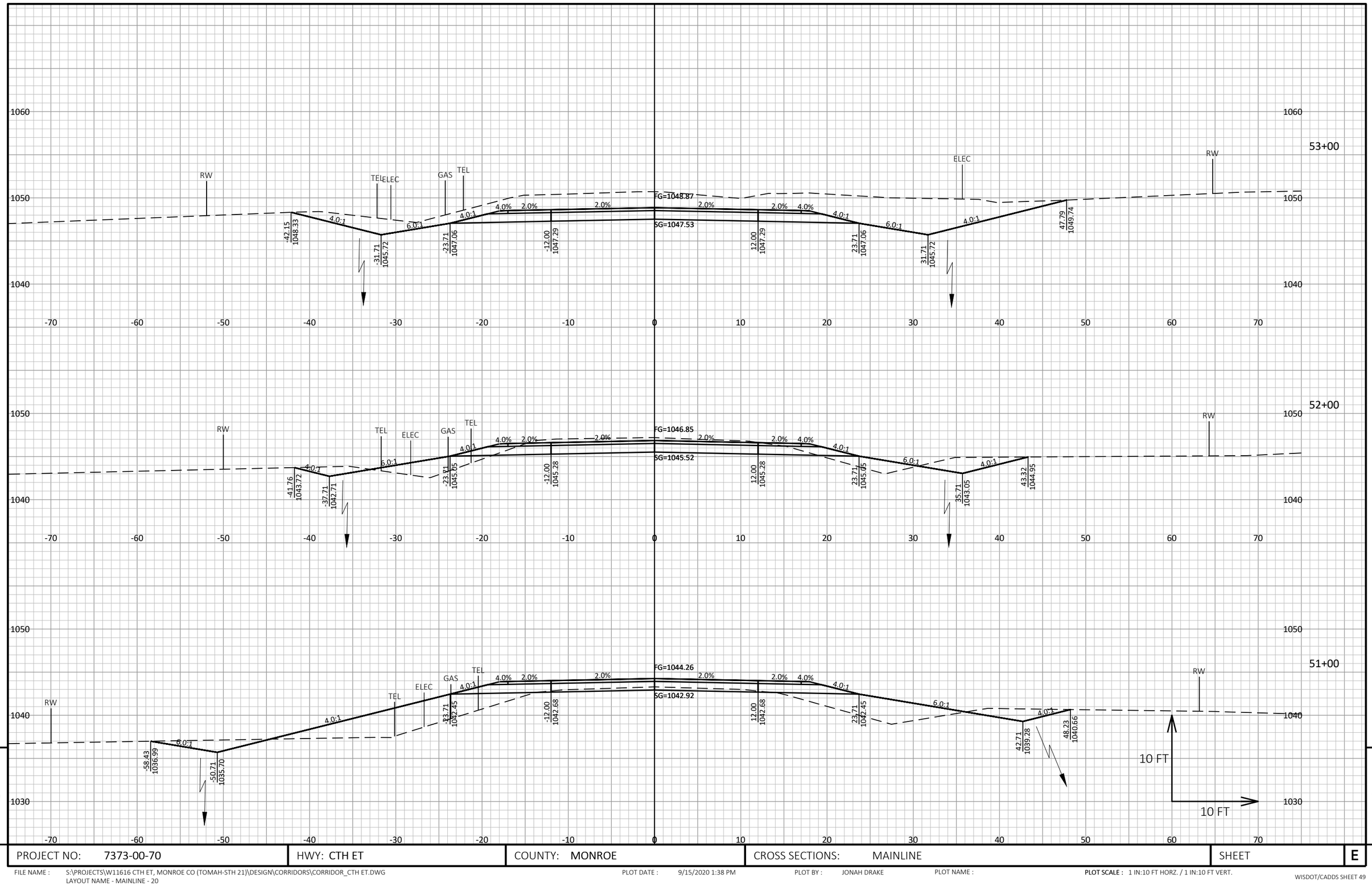
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 19

PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

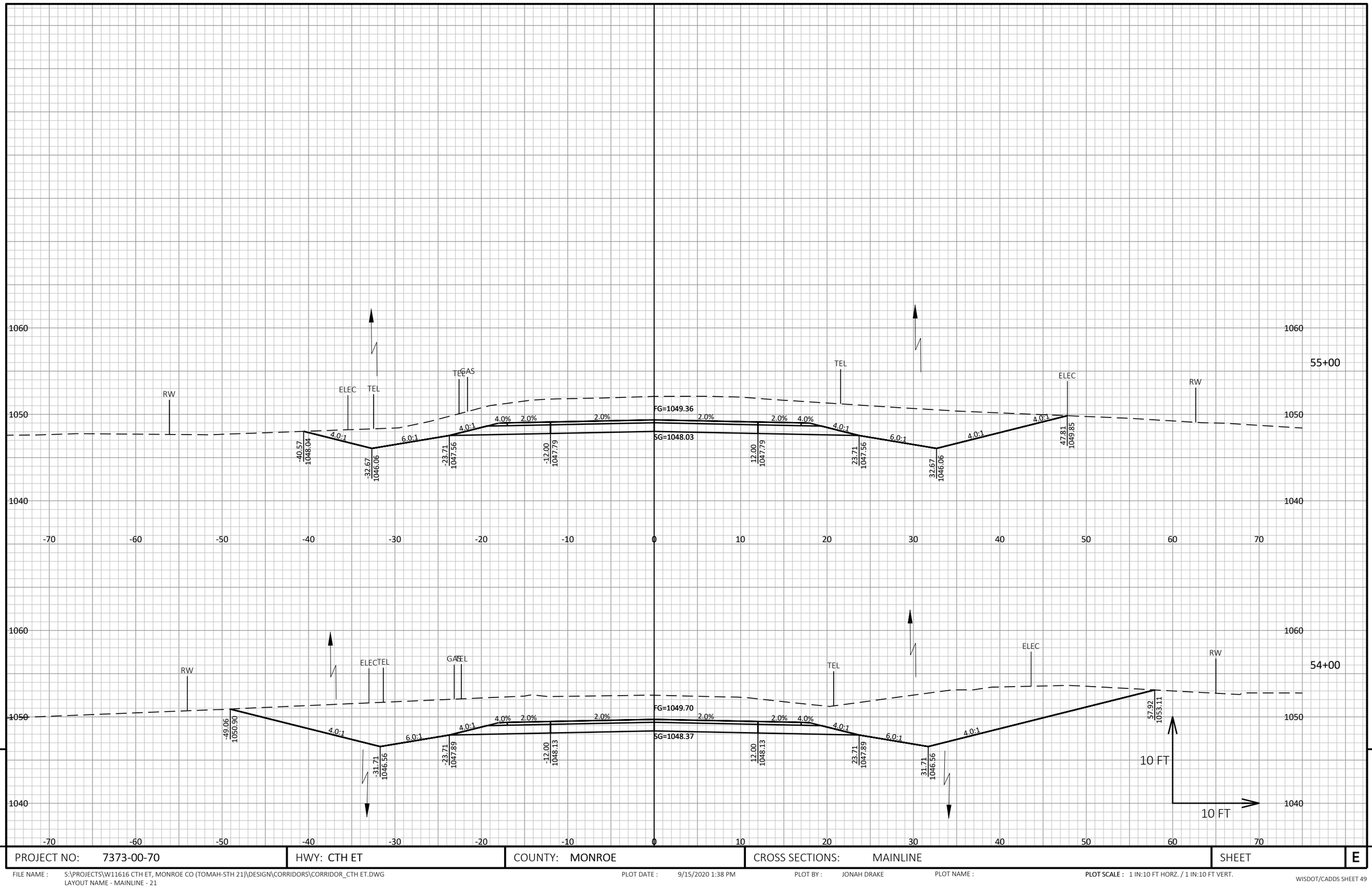


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 20

PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

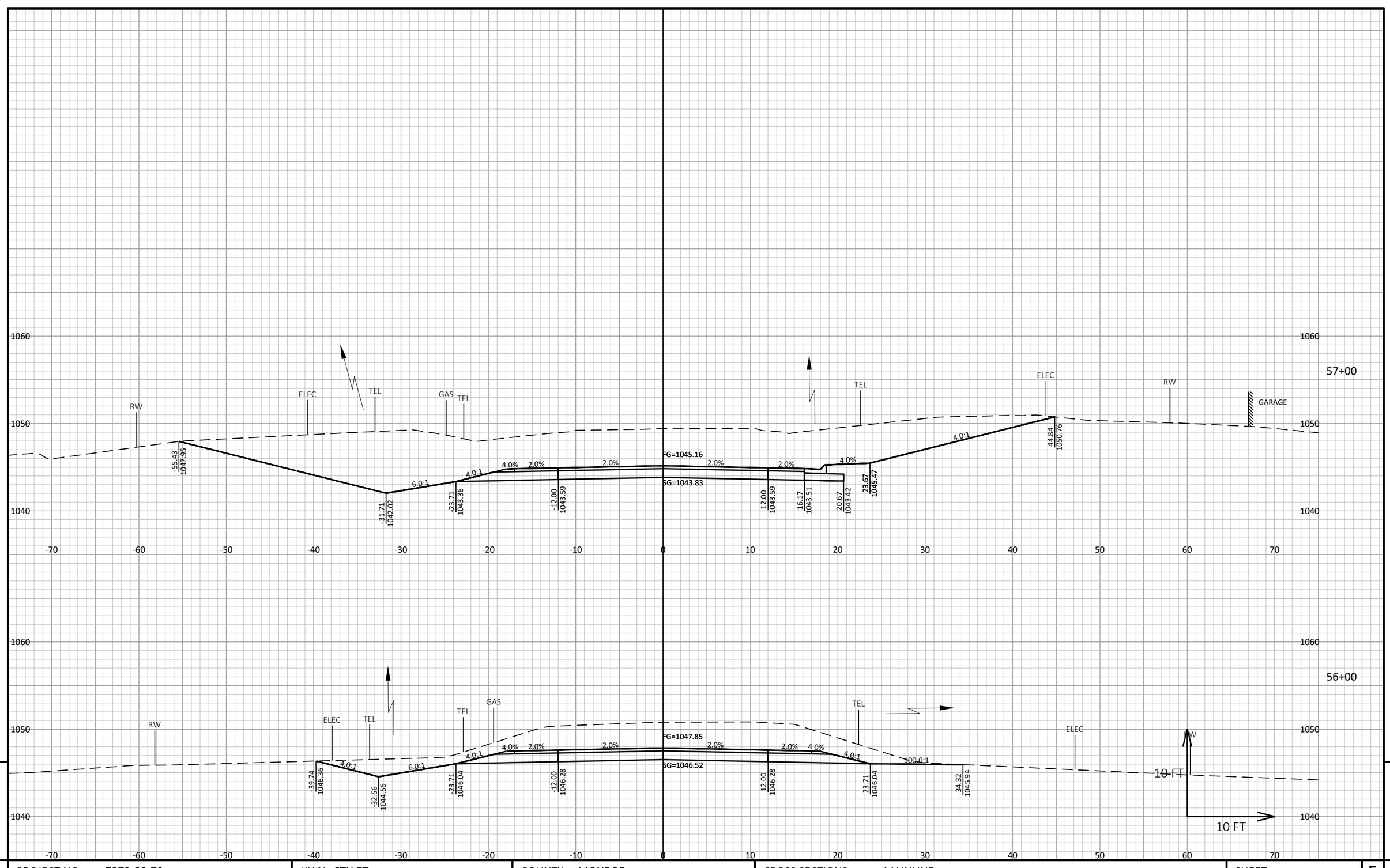


9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 21

PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



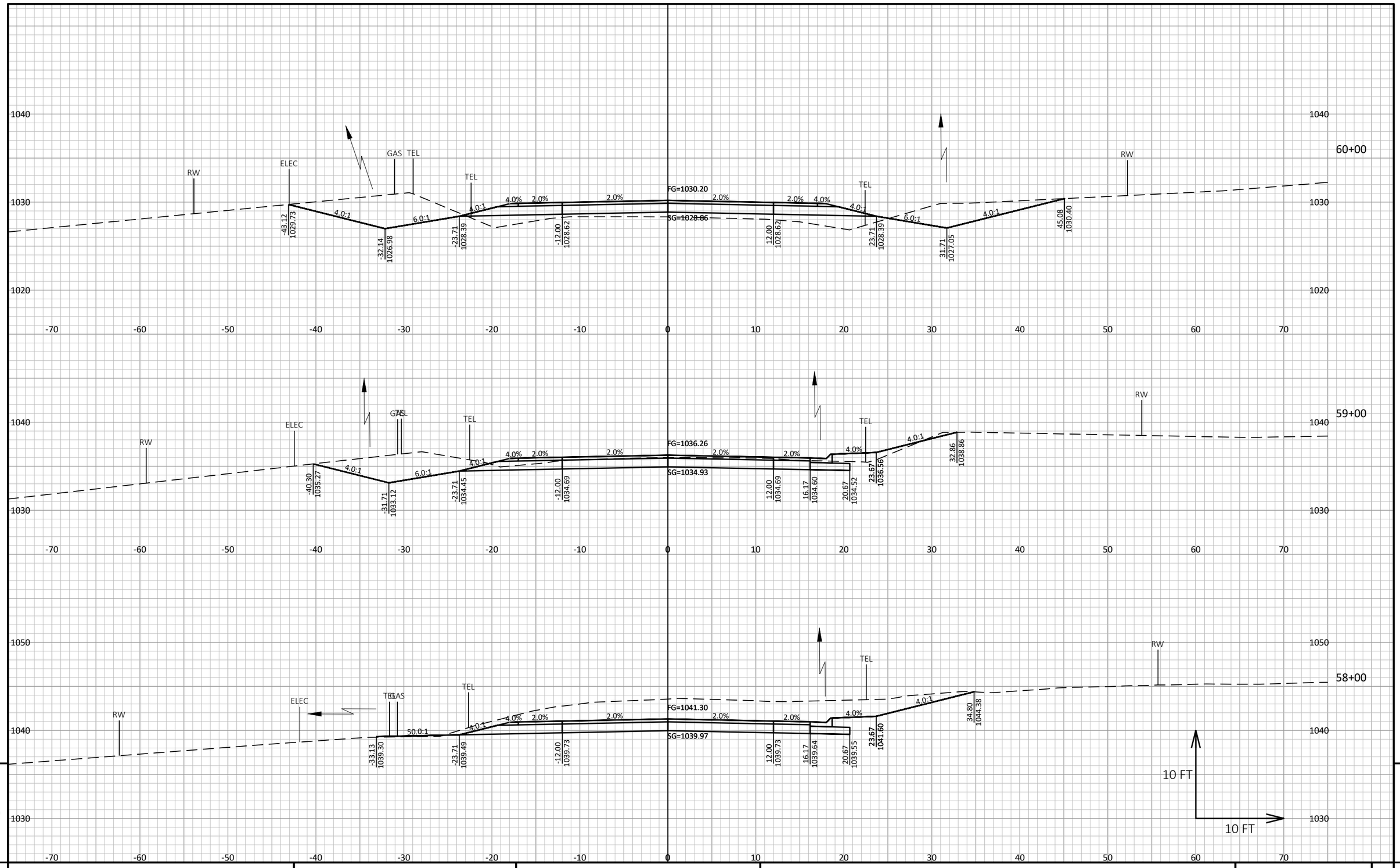
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 22

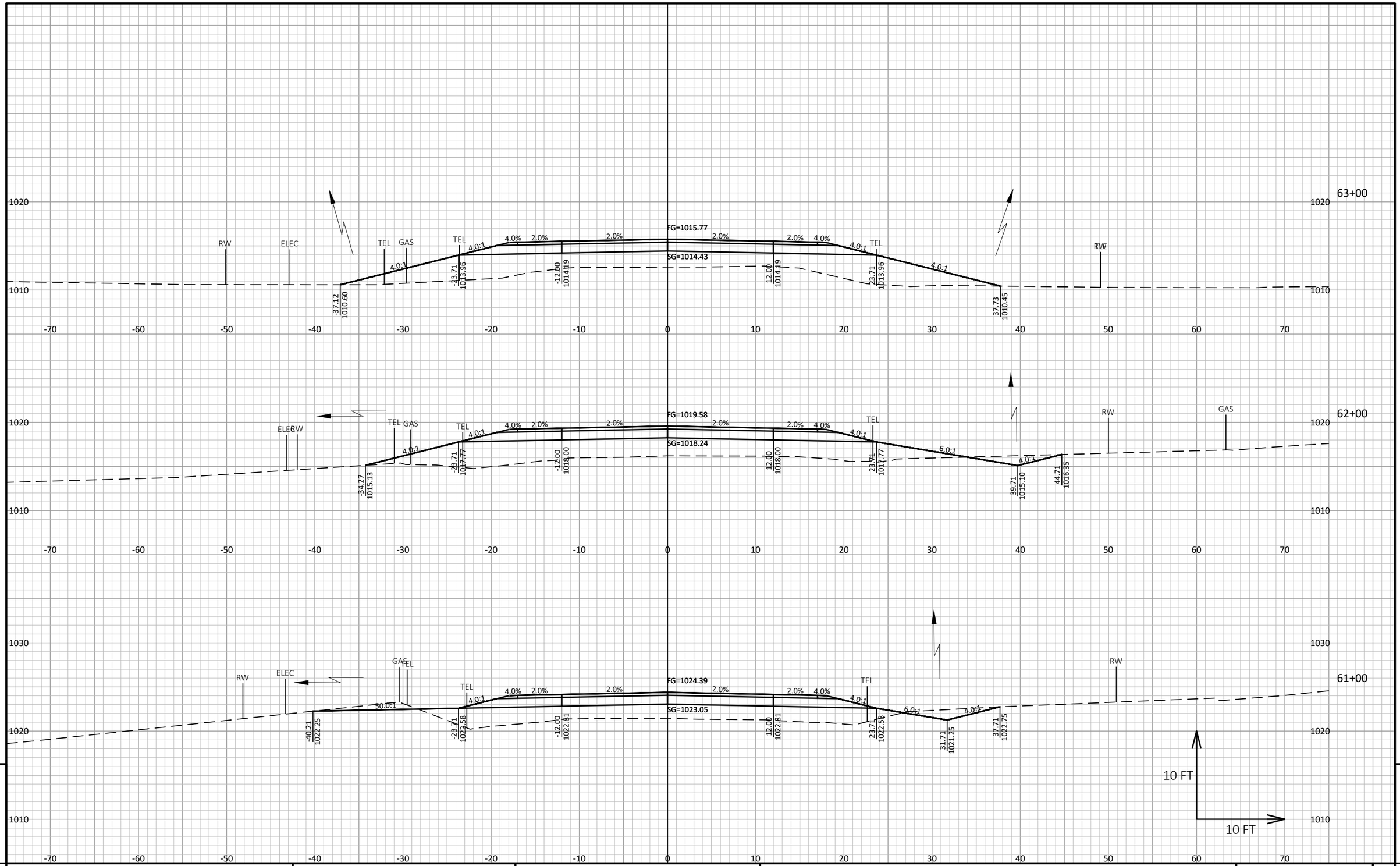
PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 23

PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



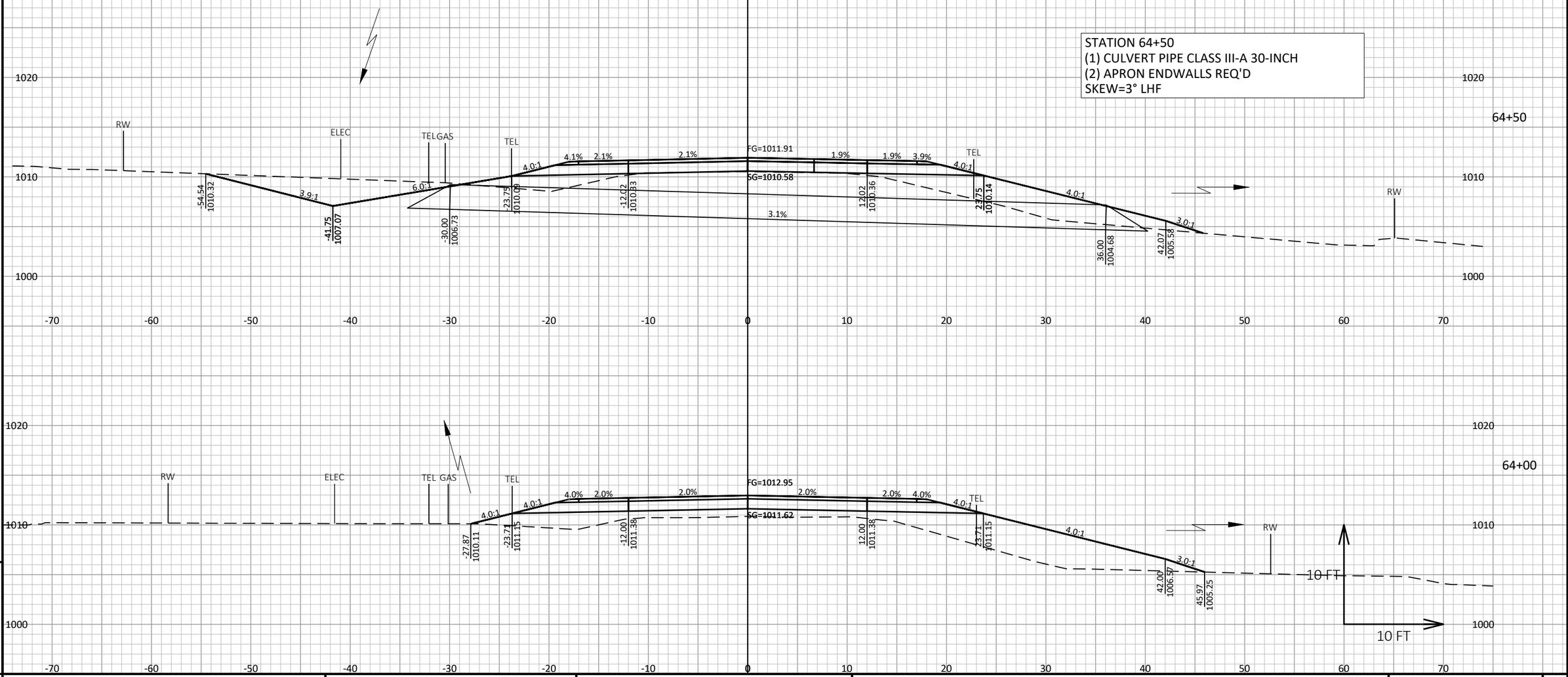
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 24

PLOT DATE : 9/15/2020 1:38 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 64+50
(1) CULVERT PIPE CLASS III-A 30-INCH
(2) APRON ENDWALLS REQ'D
SKEW=3° LHF

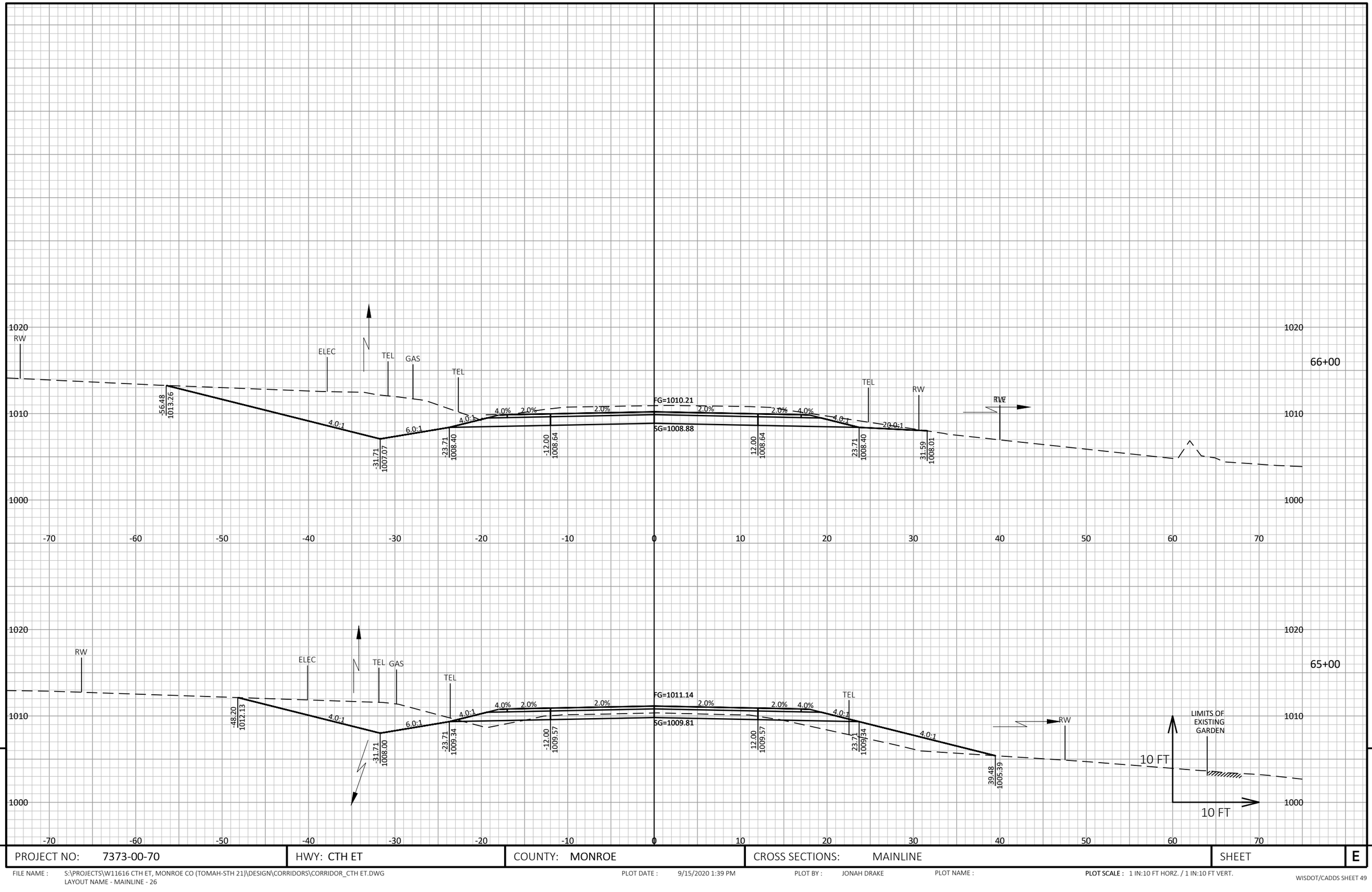


9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 25

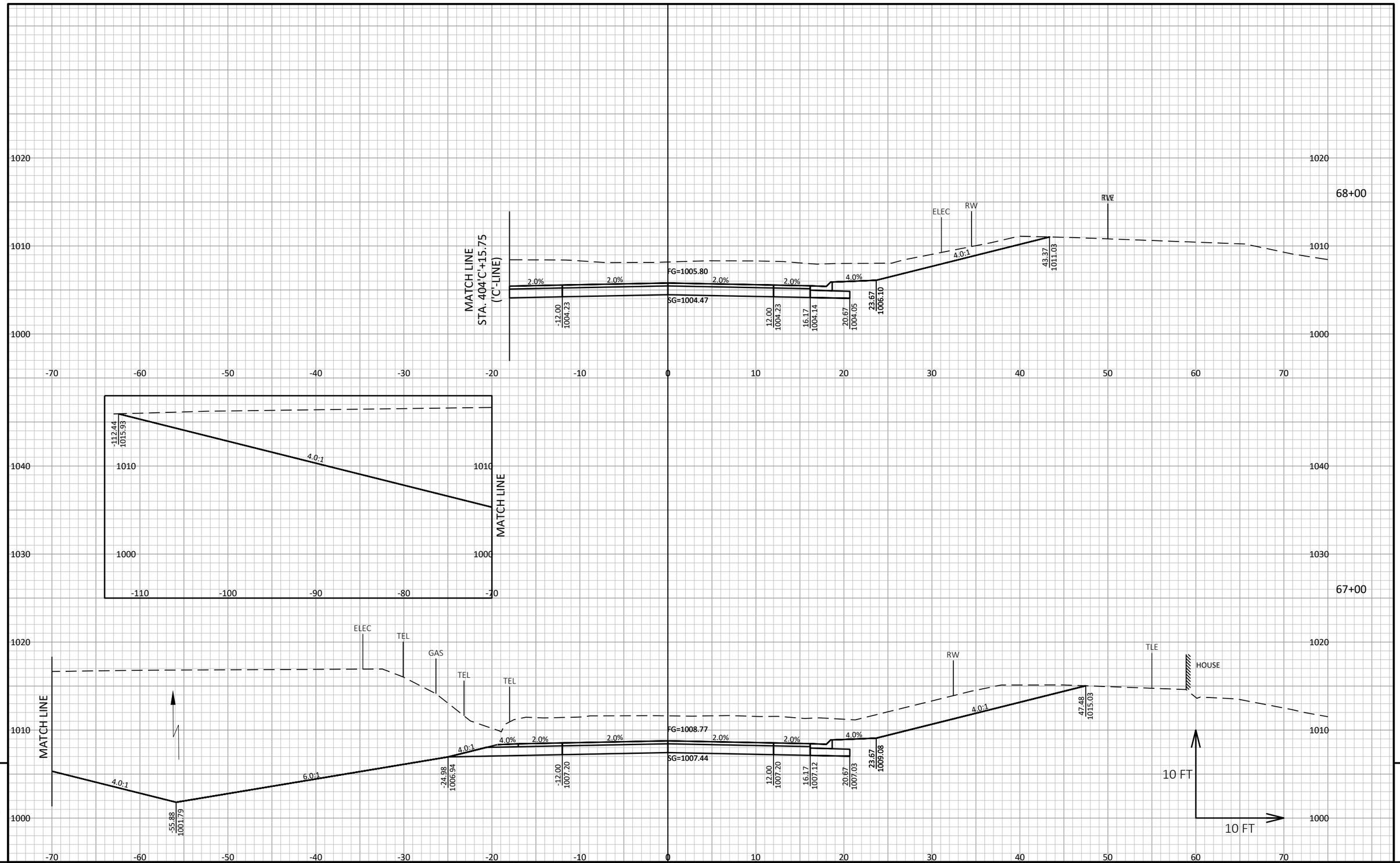
PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 26

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

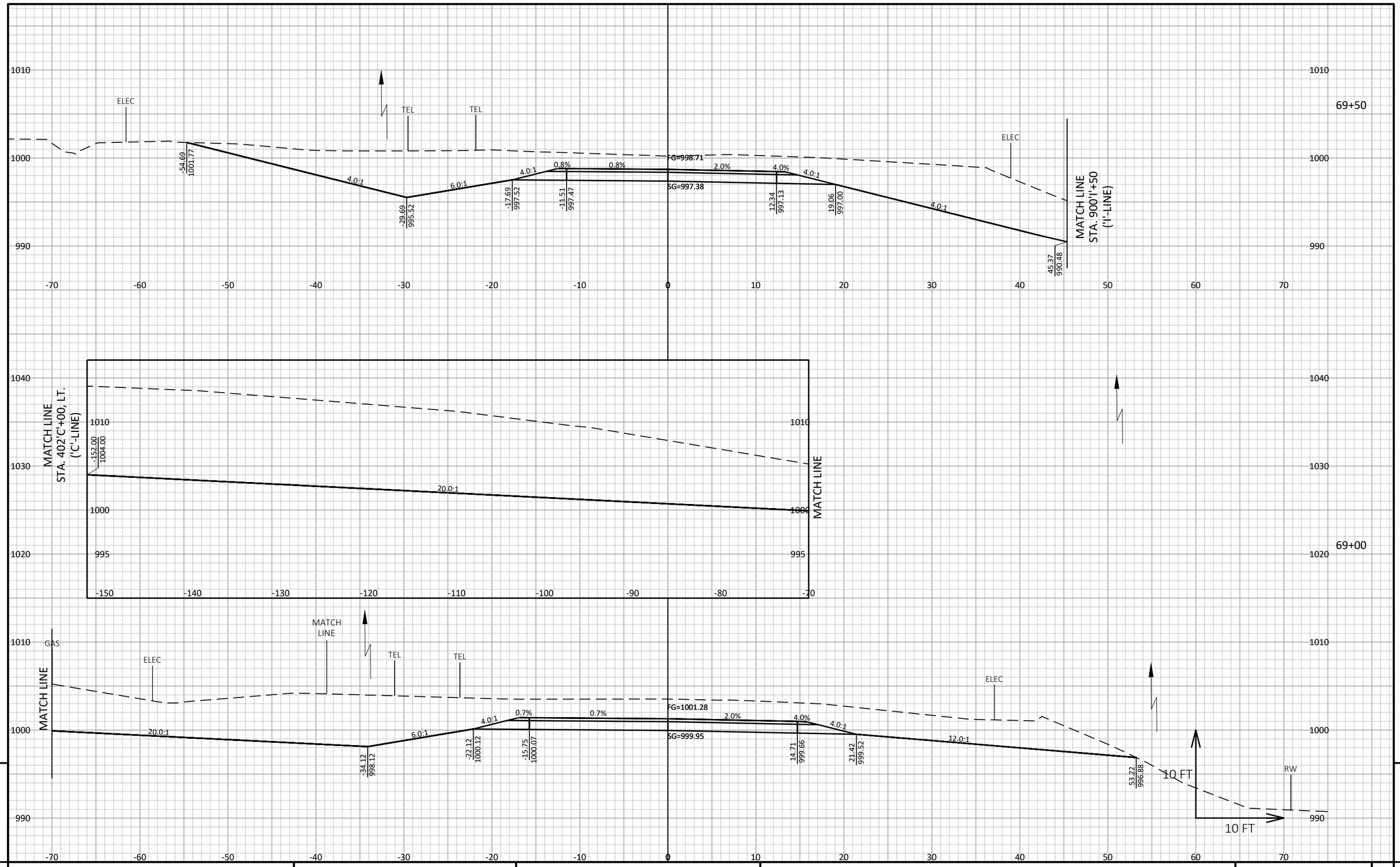


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 27

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

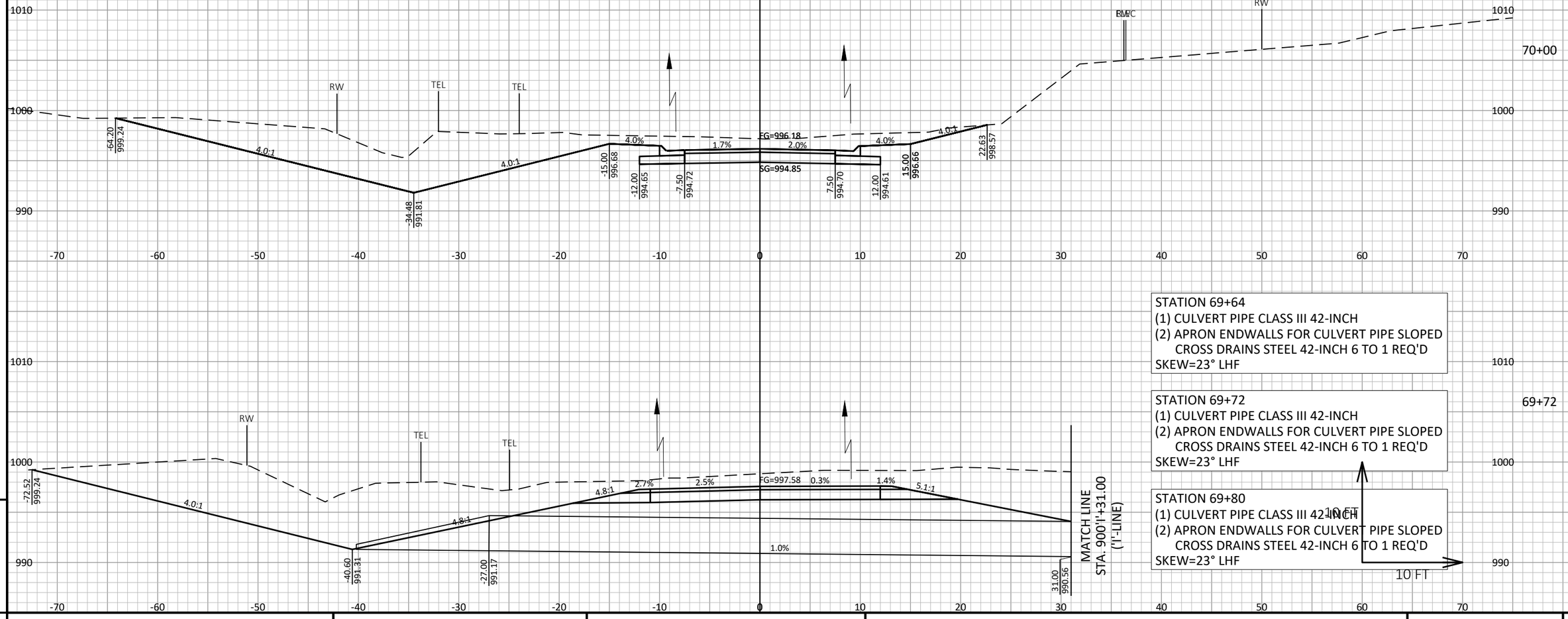


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 28

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



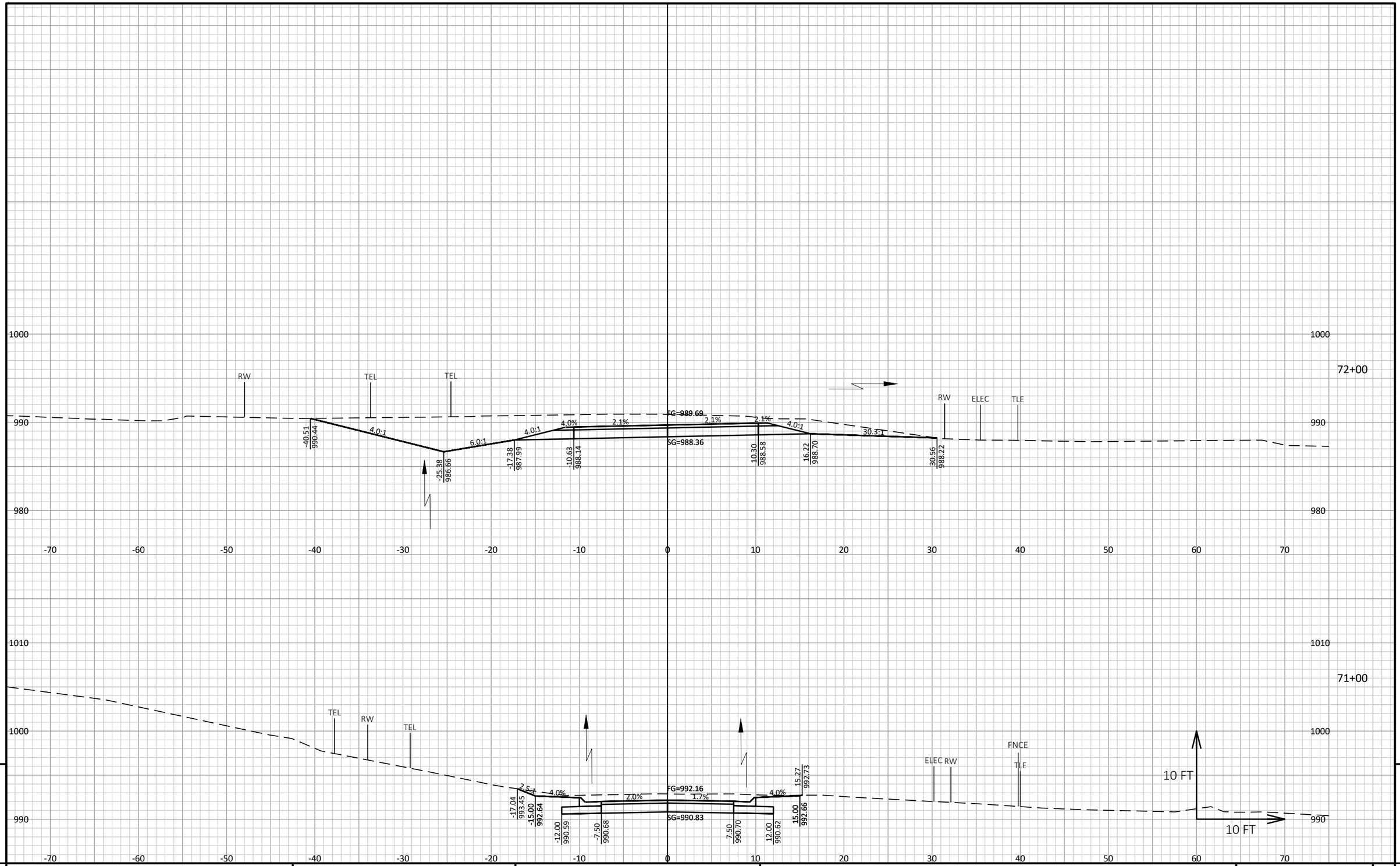
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 29

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

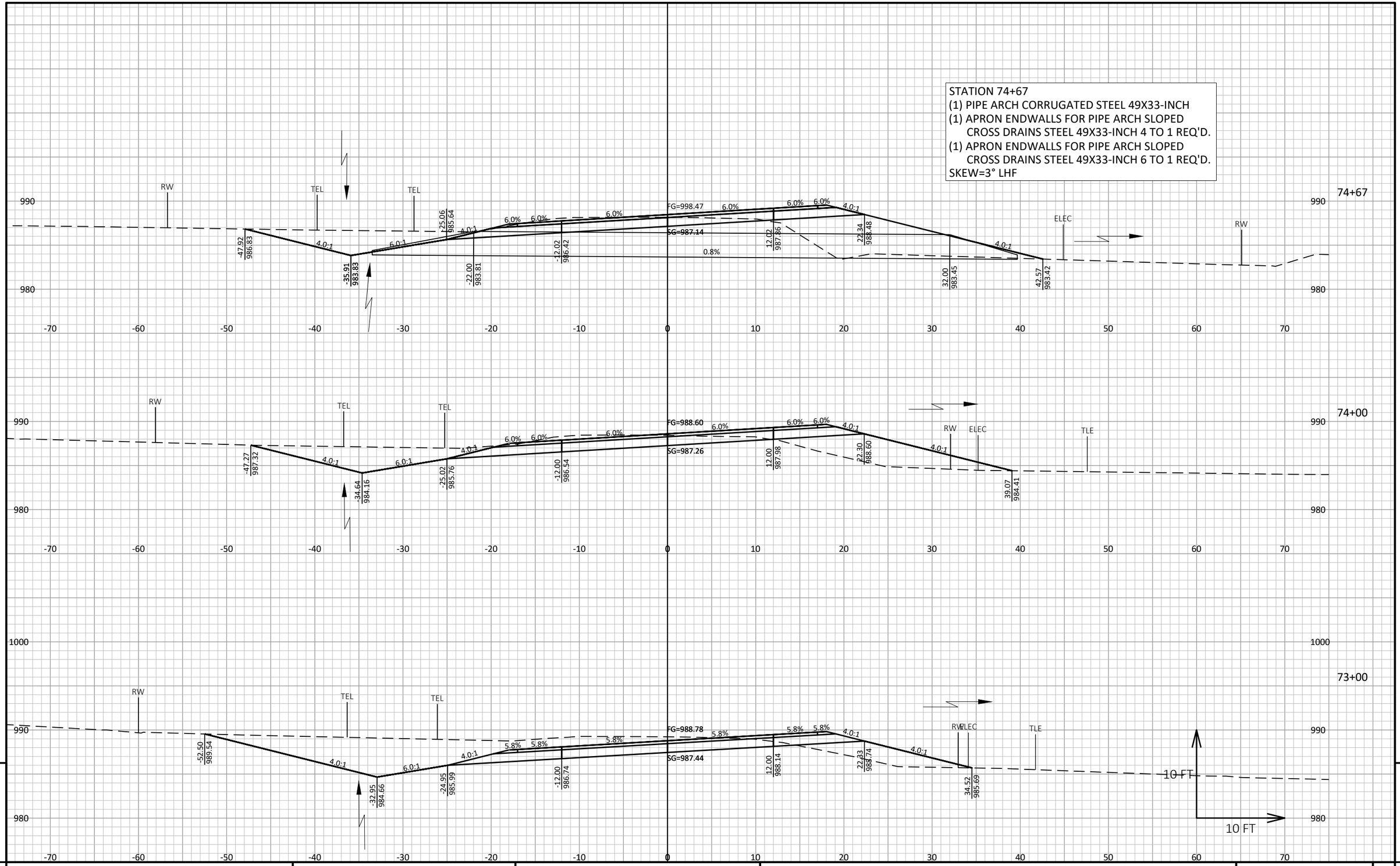
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 30

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

STATION 74+67
(1) PIPE ARCH CORRUGATED STEEL 49X33-INCH
(1) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 49X33-INCH 4 TO 1 REQ'D.
(1) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 49X33-INCH 6 TO 1 REQ'D.
SKEW=3° LHF



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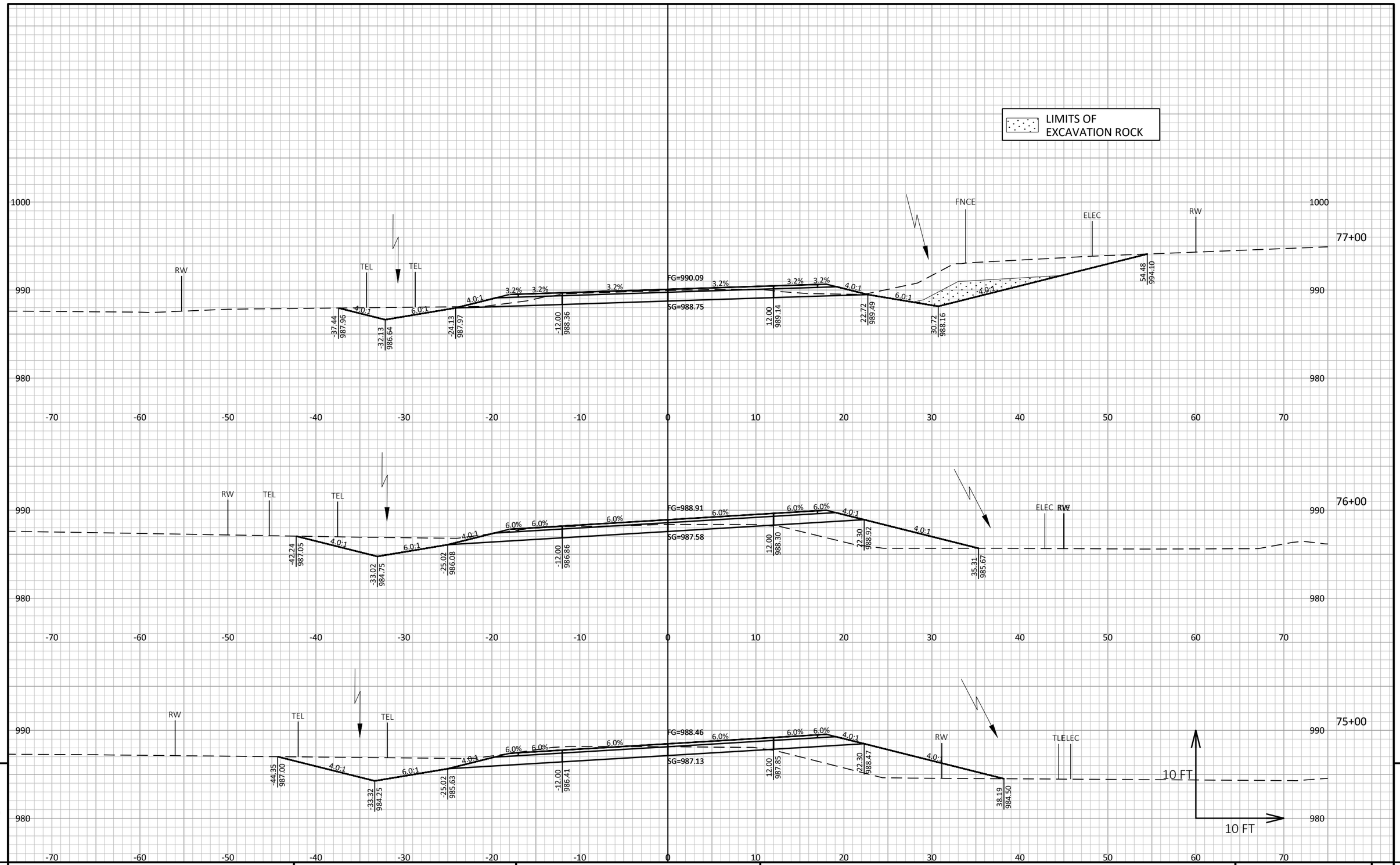
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 31

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

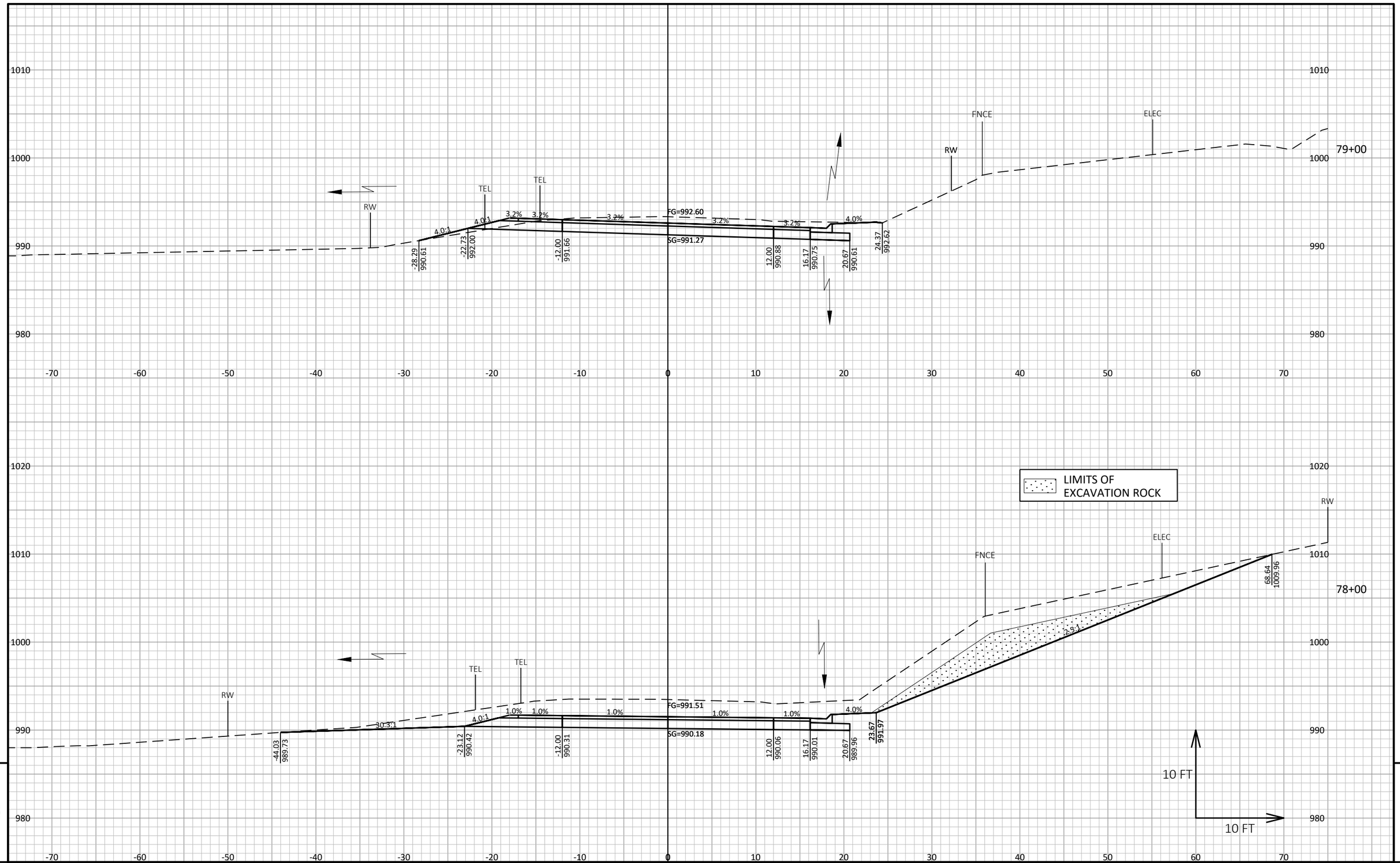


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 32

PLOT DATE : 9/15/2020 1:39 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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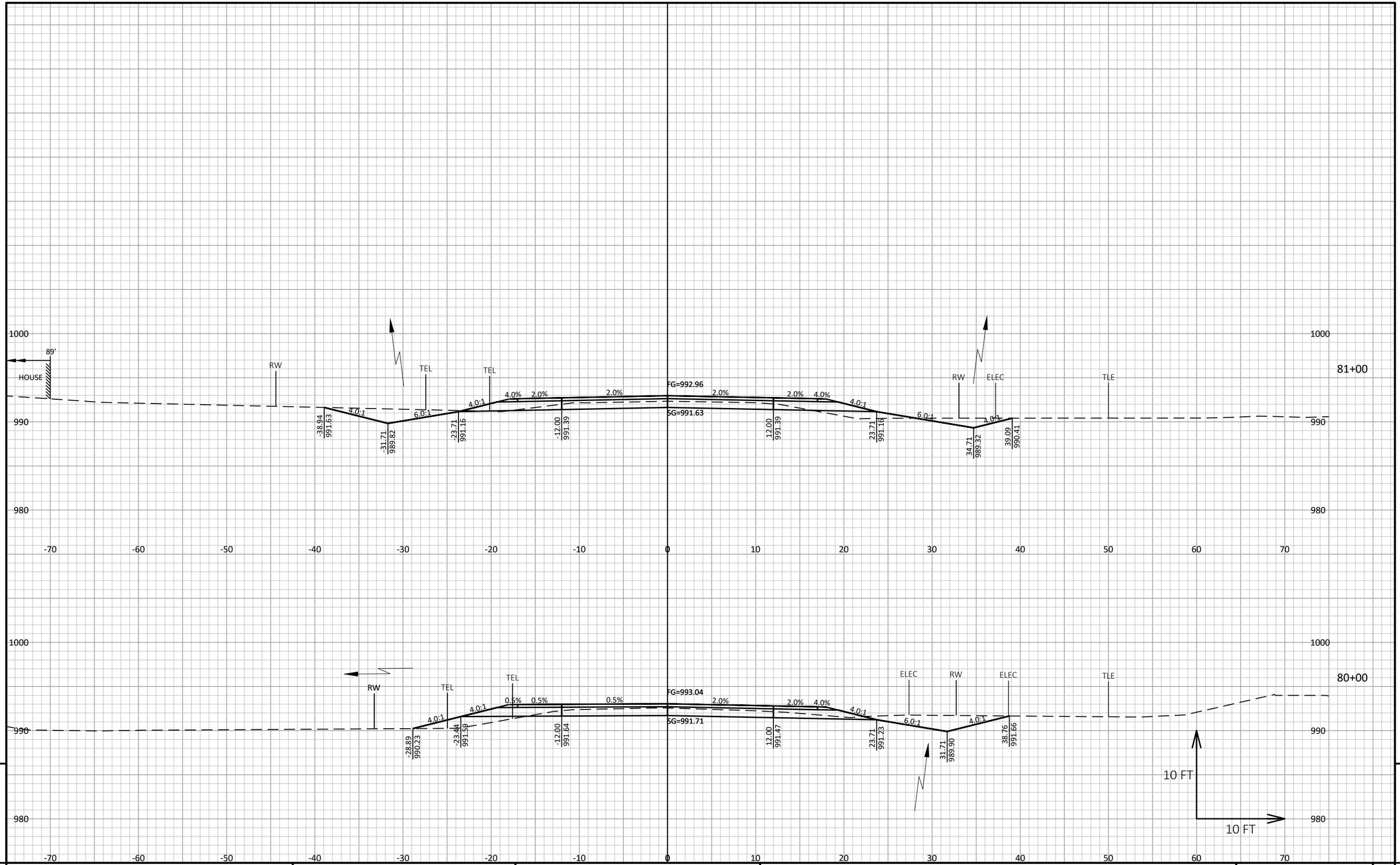
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 33

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

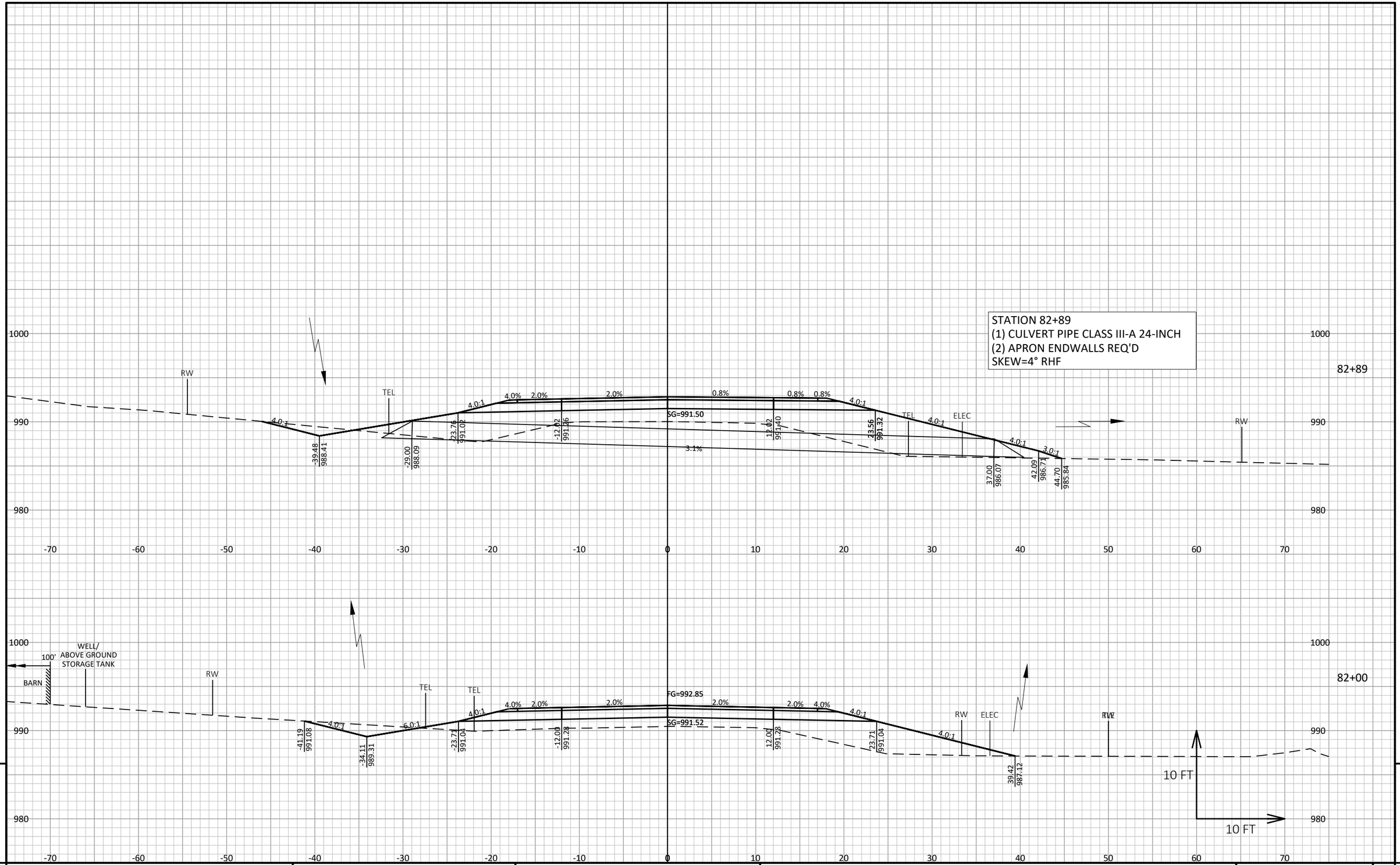
WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 34

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

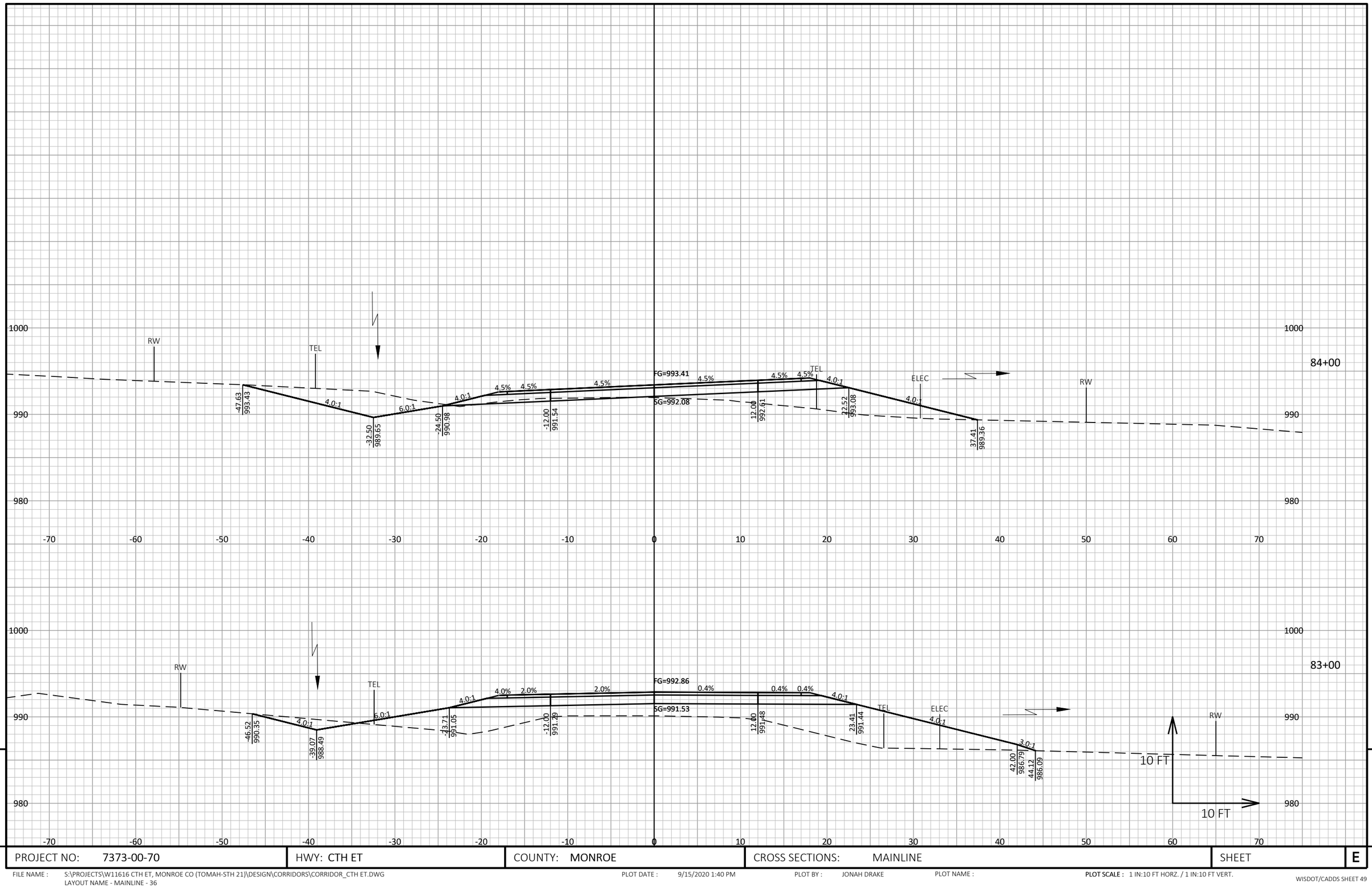


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 35

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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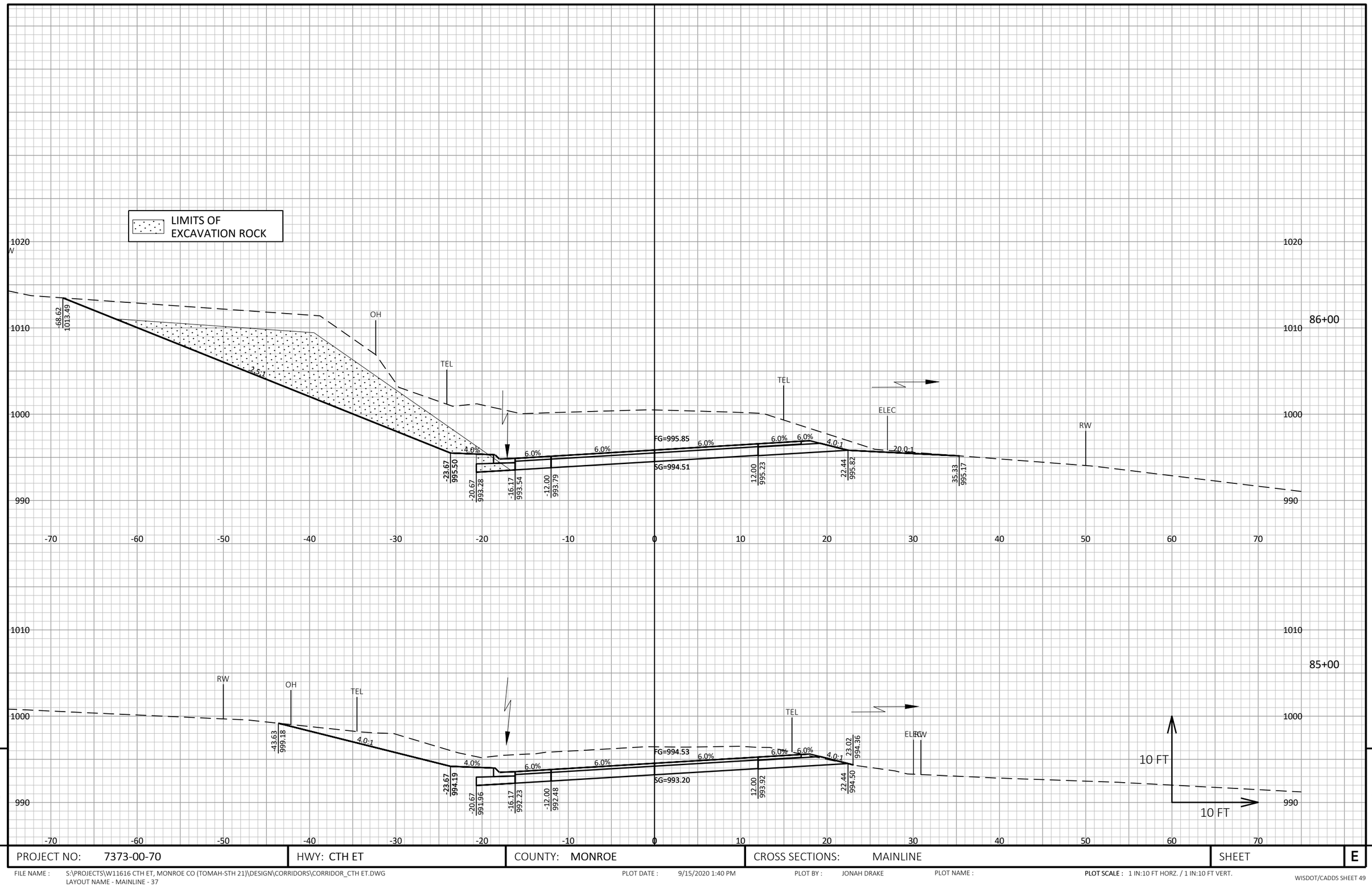
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 36

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

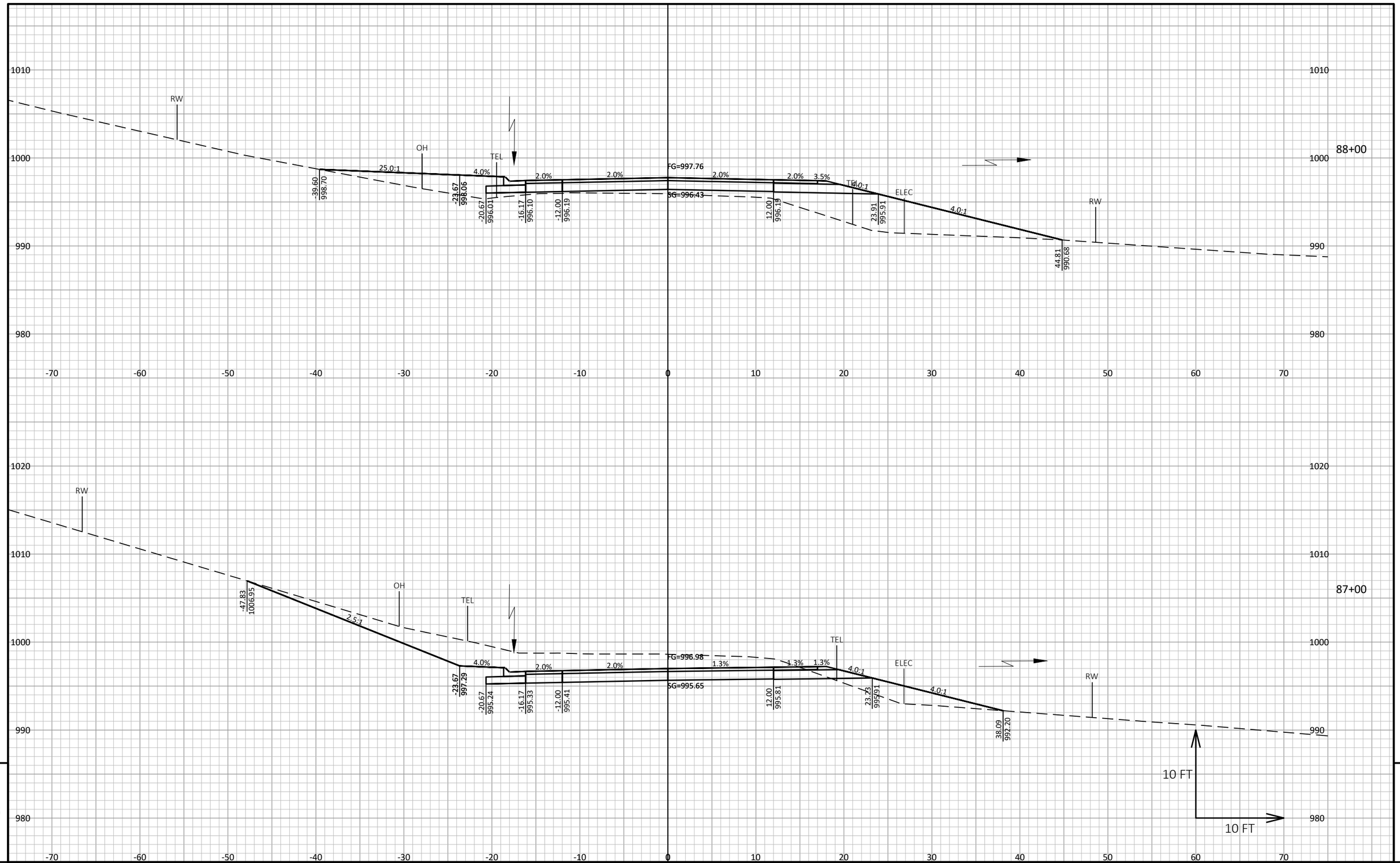


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 37

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

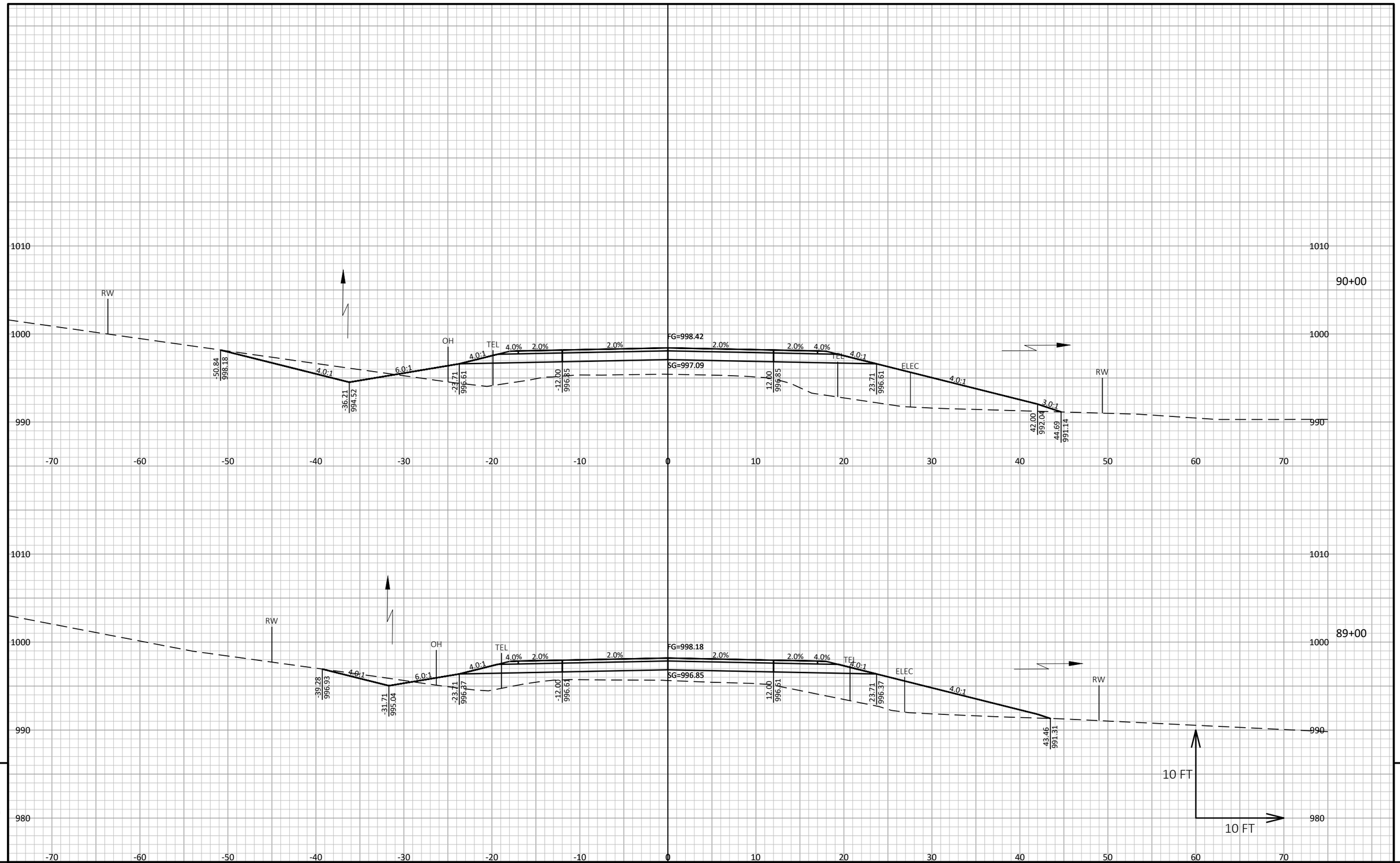


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 38

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

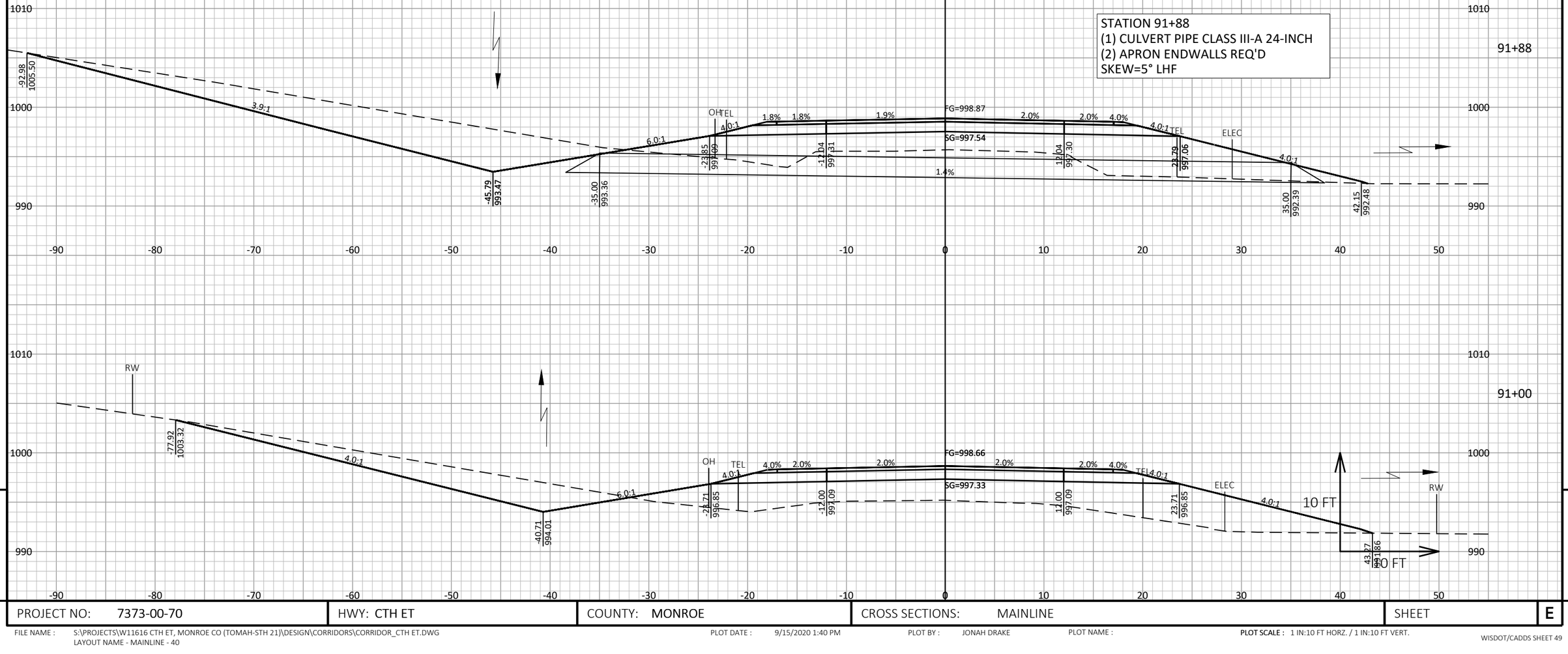


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 39

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

STATION 91+88
(1) CULVERT PIPE CLASS III-A 24-INCH
(2) APRON ENDWALLS REQ'D
SKEW=5° LHF



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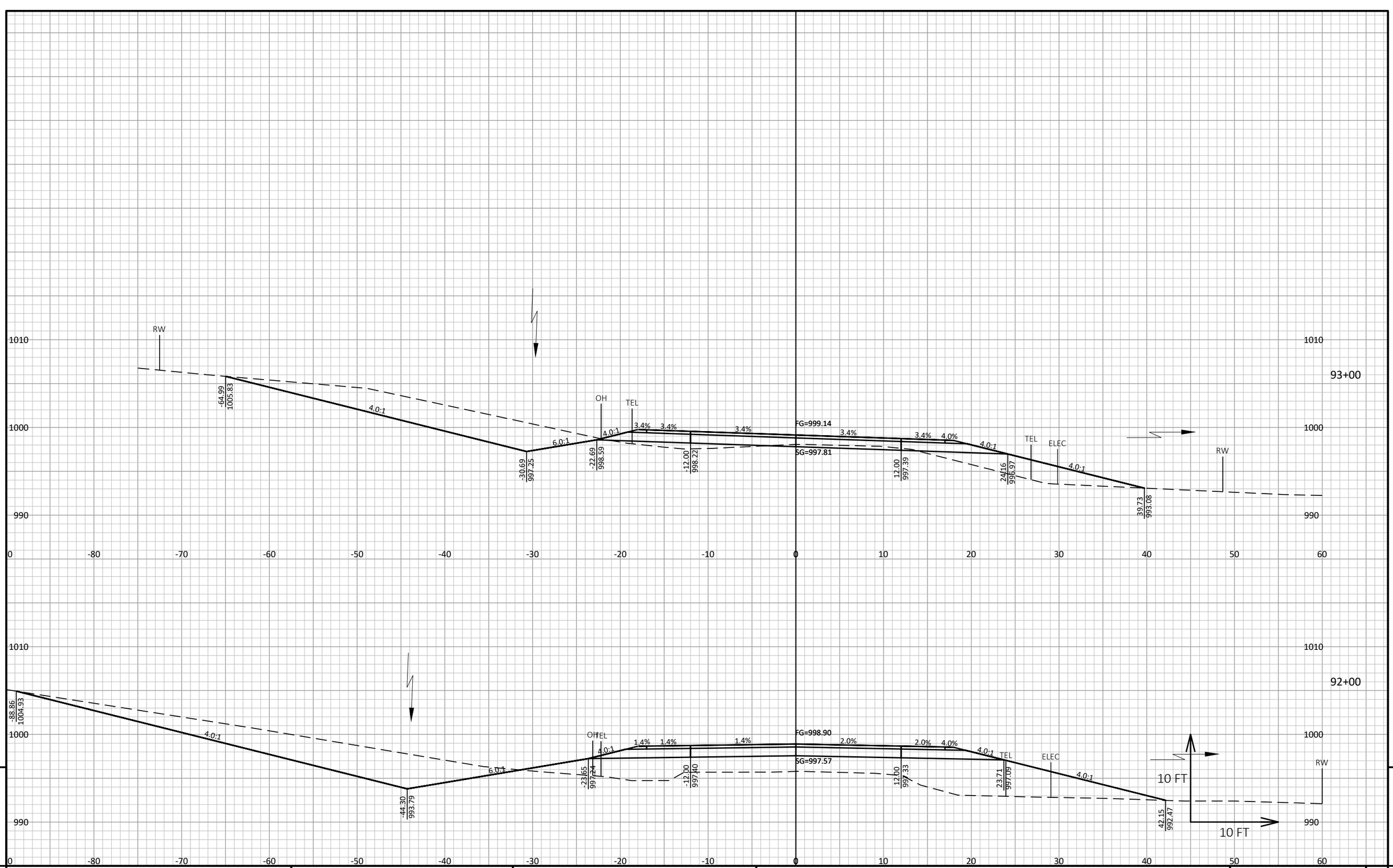
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 40

PLOT DATE : 9/15/2020 1:40 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

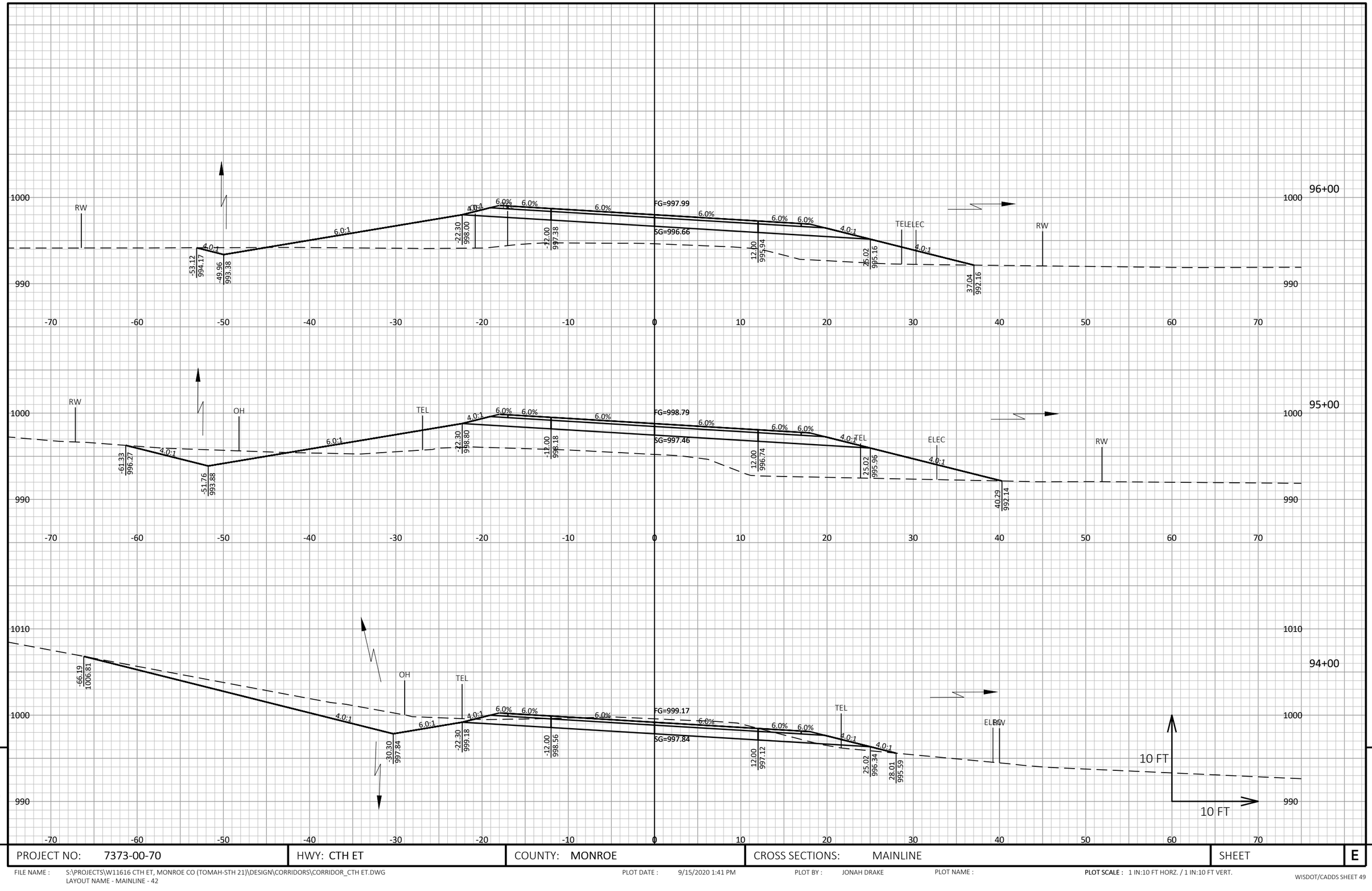


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 41

PLOT DATE : 9/15/2020 1:41 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

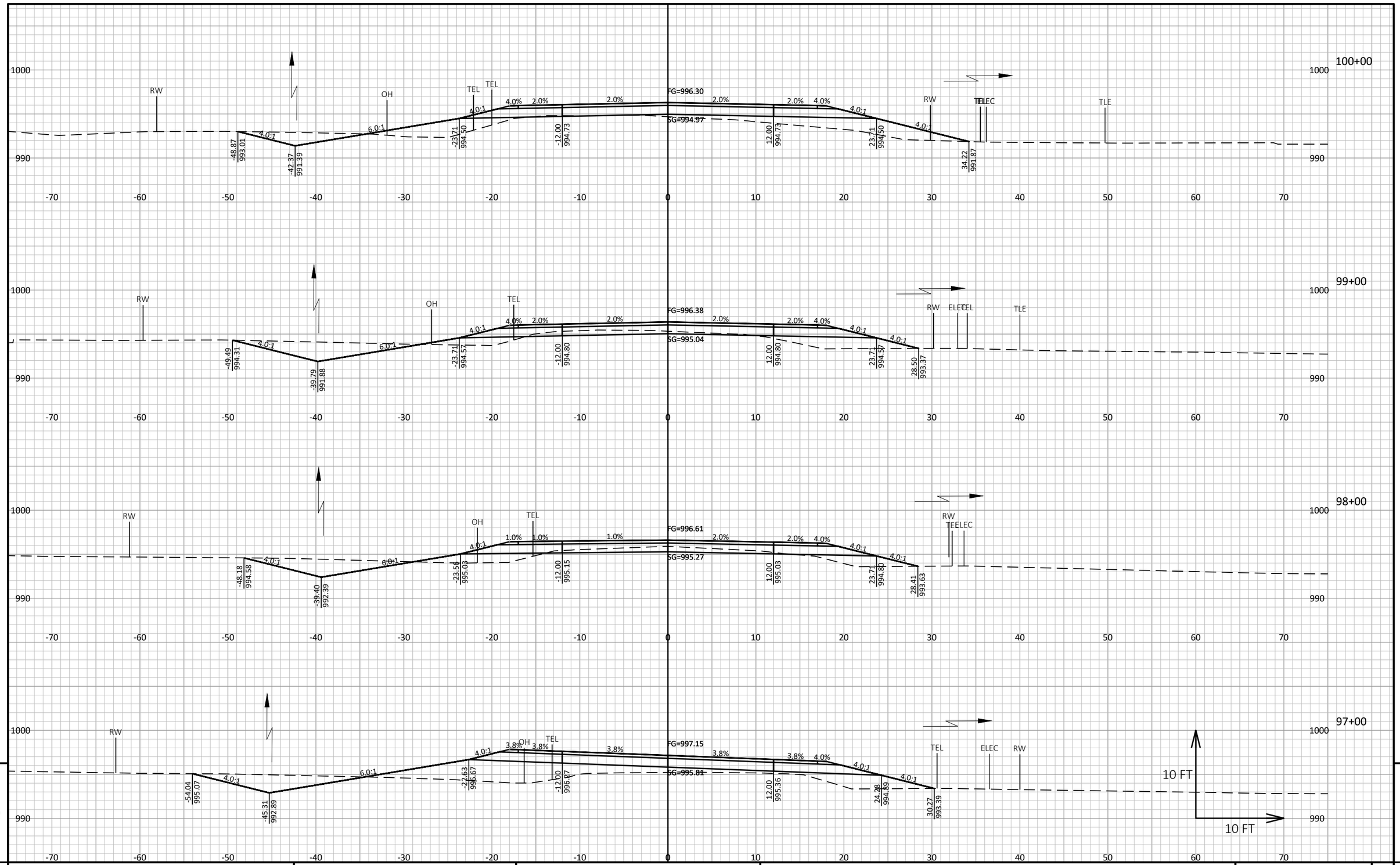


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 42

PLOT DATE : 9/15/2020 1:41 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

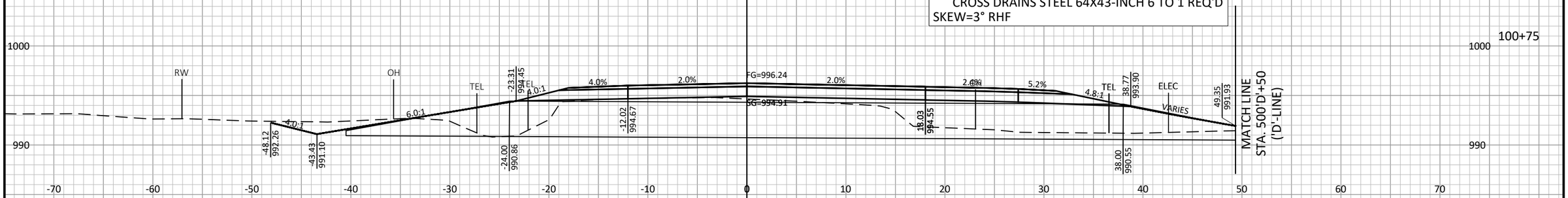
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 43

PLOT DATE : 9/15/2020 1:41 PM PLOT BY : JONAH DRAKE PLOT NAME :

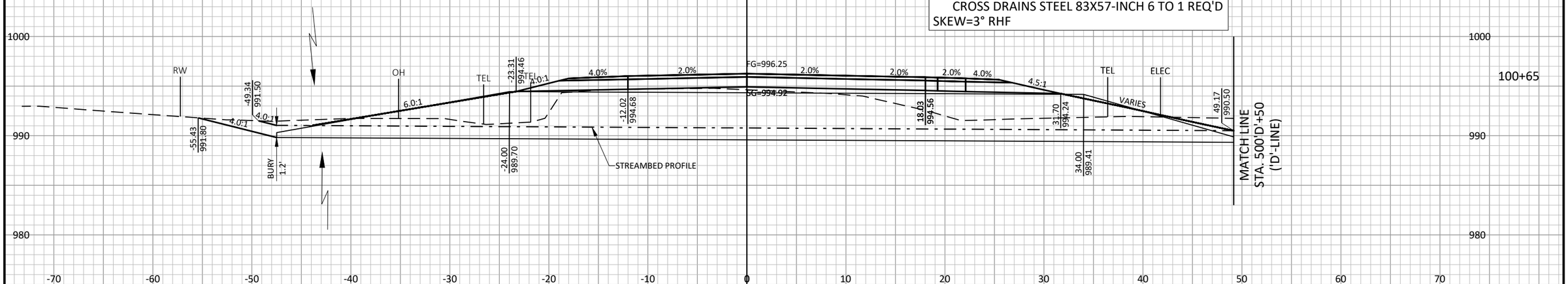
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 100+75
(1) PIPE ARCH CORRUGATED STEEL 64X43-INCH
(2) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 64X43-INCH 6 TO 1 REQ'D
SKEW=3° RHF



STATION 100+65
(1) PIPE ARCH CORRUGATED STEEL 83X57-INCH
(1) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 83X57-INCH 4 TO 1 REQ'D
(1) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 83X57-INCH 6 TO 1 REQ'D
SKEW=3° RHF

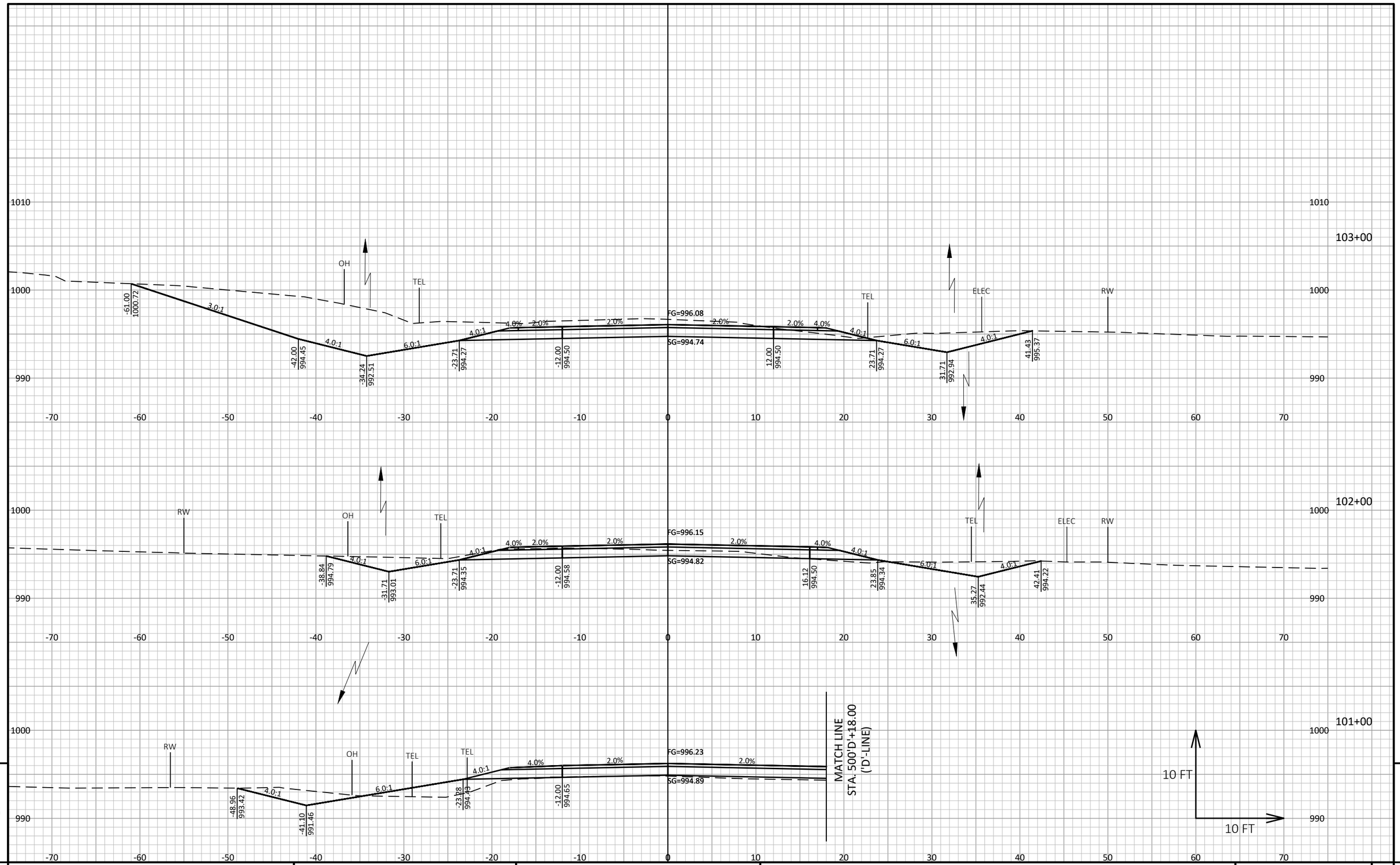


STATION 100+56
(1) PIPE ARCH CORRUGATED STEEL 64X43-INCH
(1) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 64X43-INCH 4 TO 1 REQ'D
(1) APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS STEEL 64X43-INCH 6 TO 1 REQ'D
SKEW=3° RHF

9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 44
PLOT DATE : 9/15/2020 1:41 PM
PLOT BY : JONAH DRAKE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 45

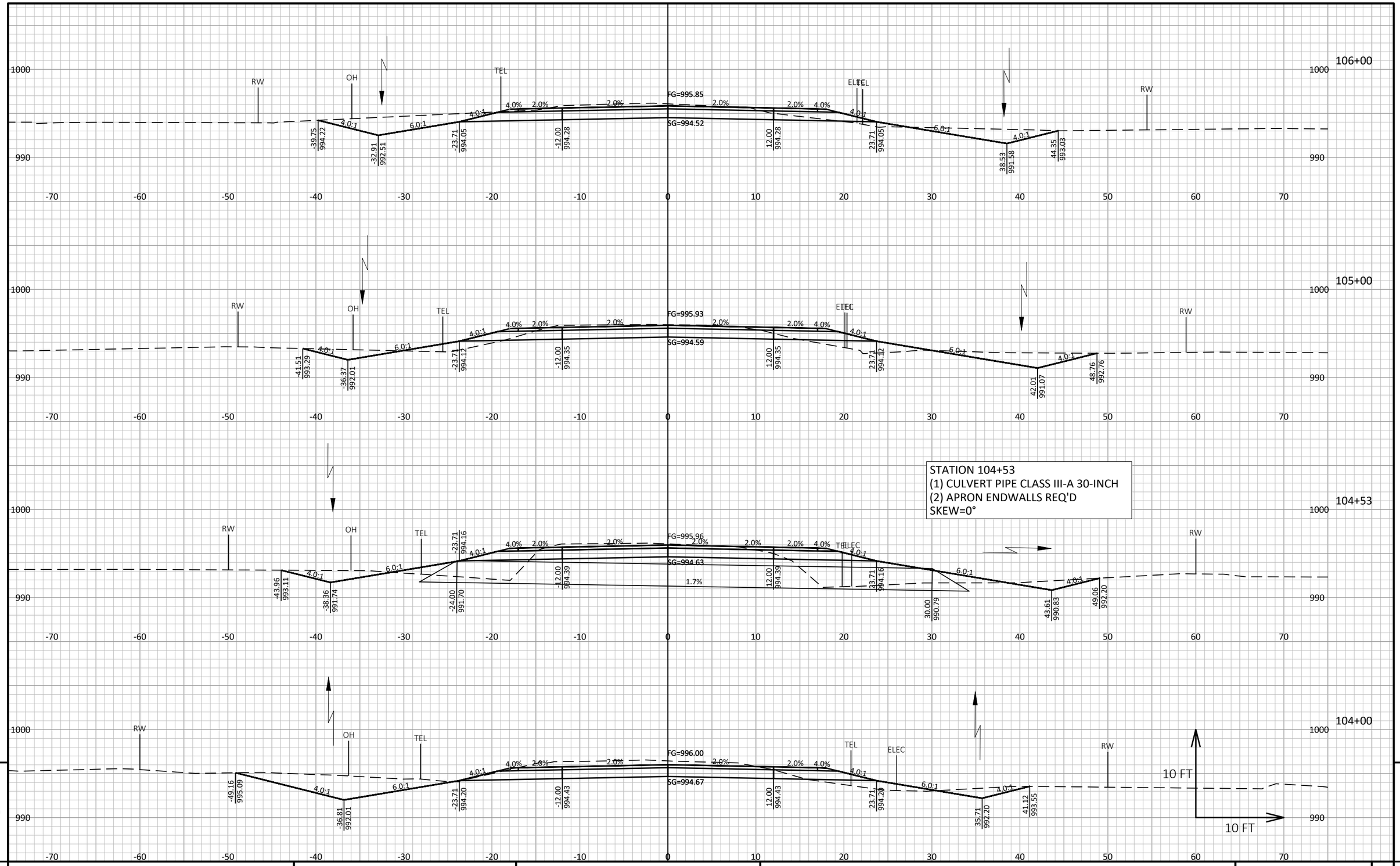
PLOT DATE : 9/15/2020 1:41 PM

PLOT BY : JONAH DRAKE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 46

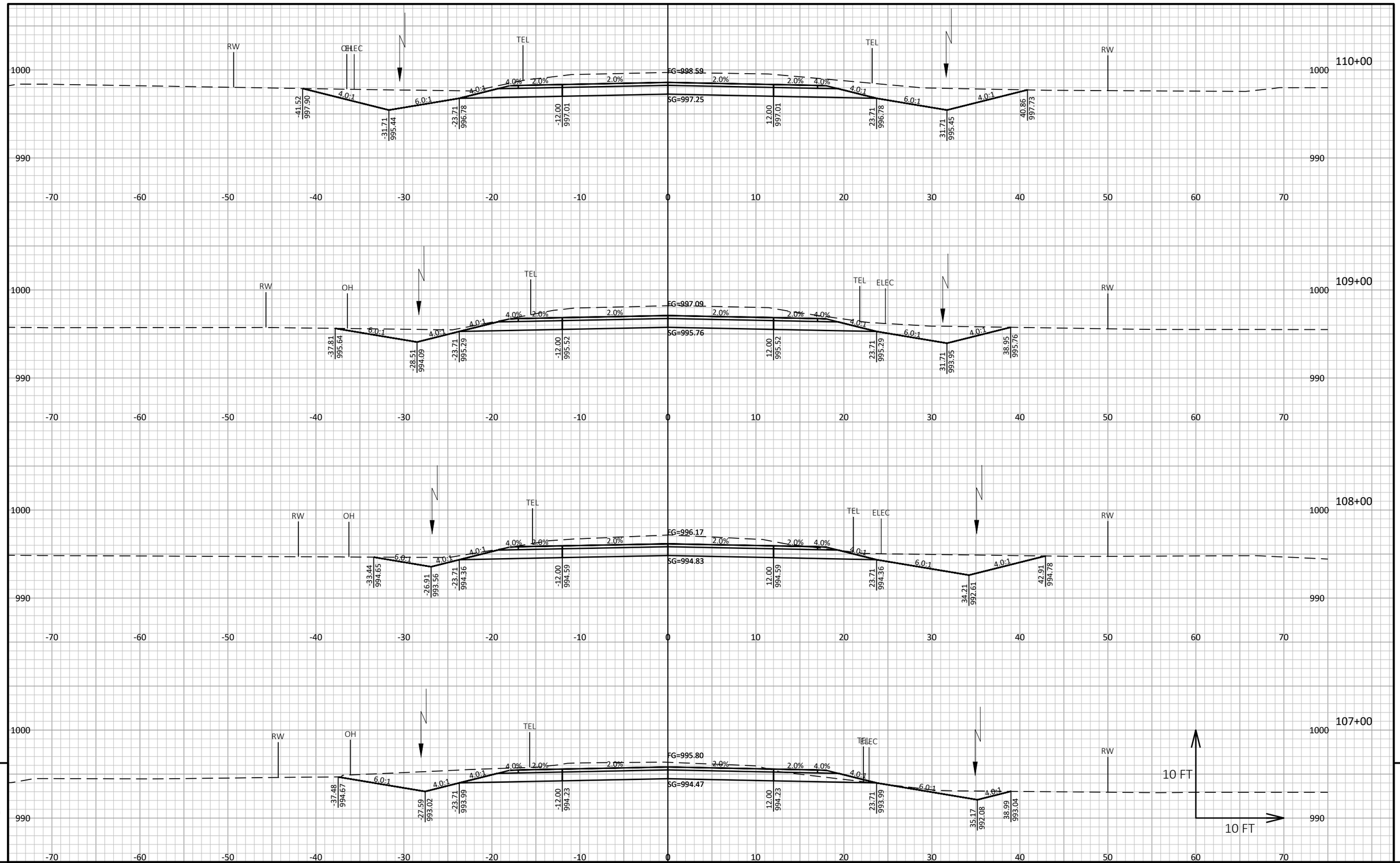
PLOT DATE : 9/15/2020 1:41 PM

PLOT BY : JONAH DRAKE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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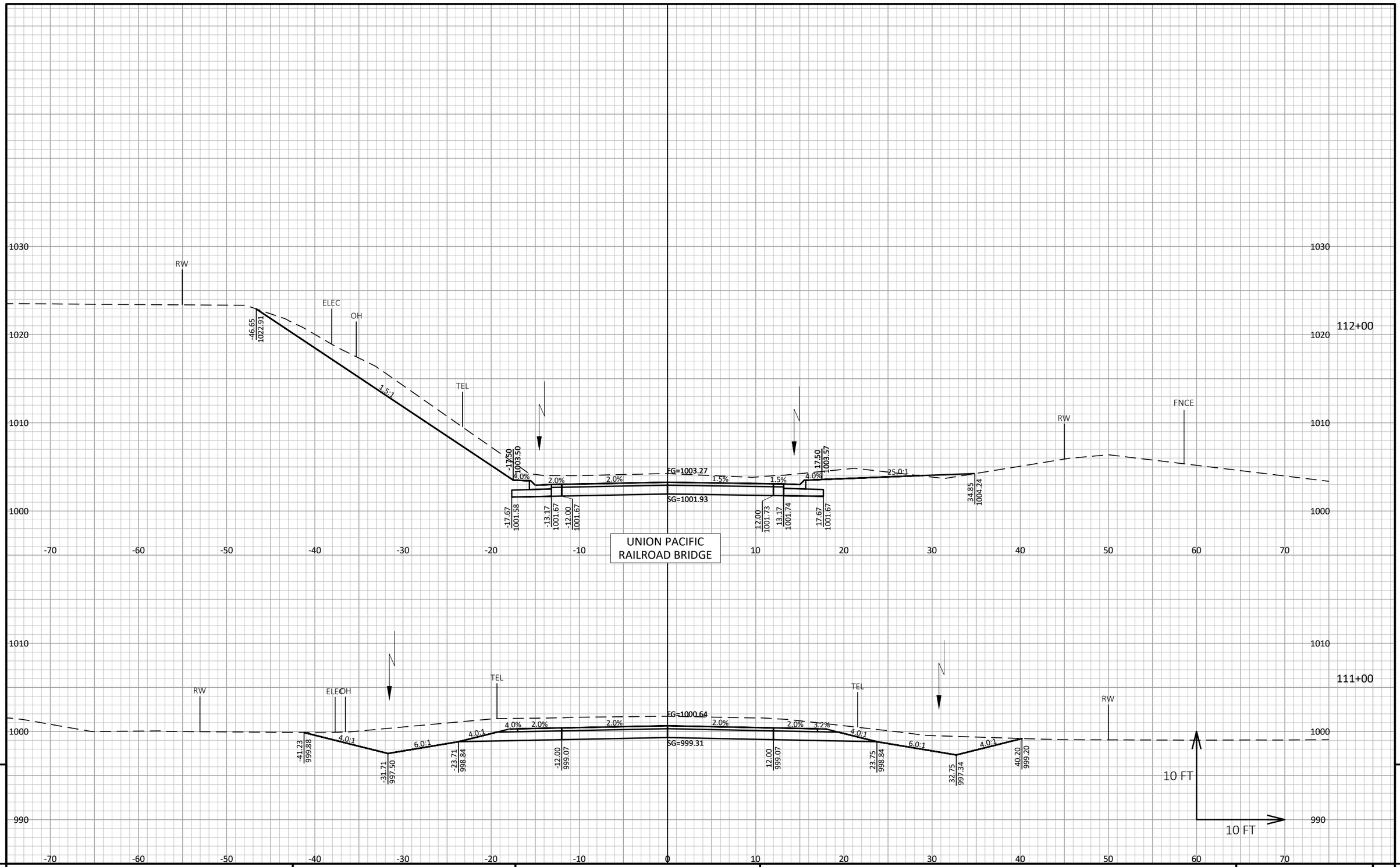
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 47

PLOT DATE : 9/15/2020 1:41 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

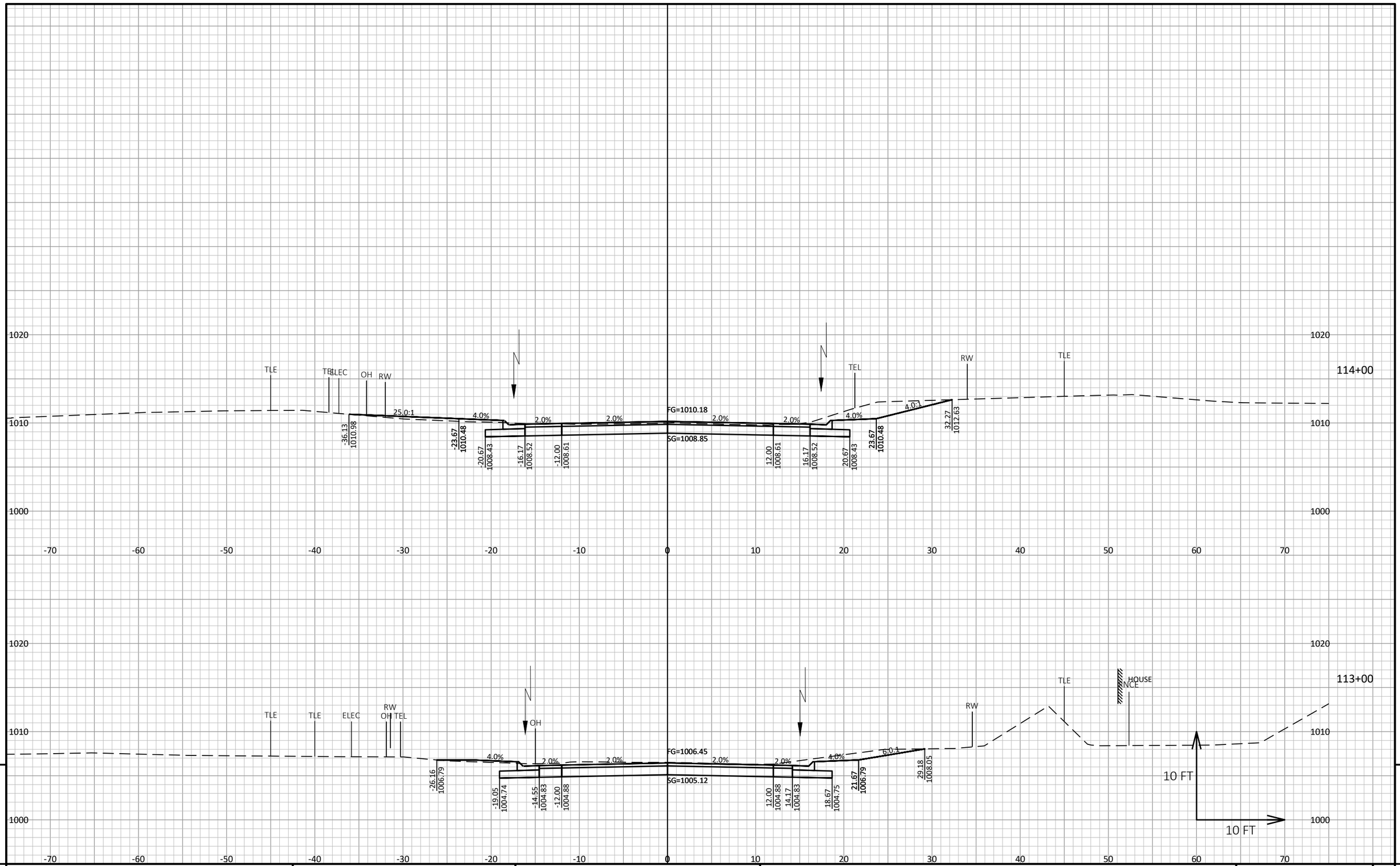


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 48

PLOT DATE : 9/15/2020 1:41 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



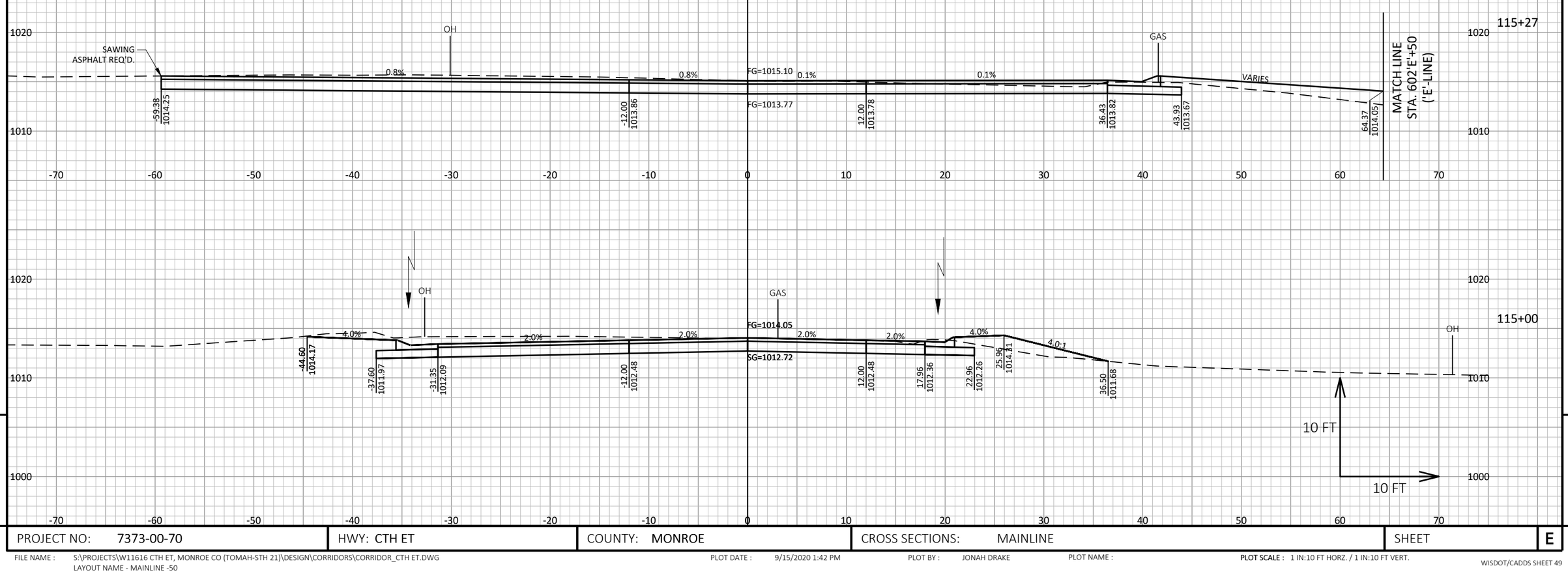
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE - 49

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

END PROJECT 7373-00-70
STA. 115+26.95
MATCH 'E'-LINE (STH 21)



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PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - MAINLINE -50

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 200'A'+80
(1) CULVERT PIPE CLASS III-A 24-INCH
(2) APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 REQ'D
SKEW=7° RHF

200'A'+80

MATCH LINE STA. 29+00, LT. (MAINLINE)

MATCH LINE STA. 28+00, LT. (MAINLINE)

GAS VARIES VARIES VARIES FG=987.72 VARIES VARIES TEL ELEC VARIES

VARIES VARIES FG=986.39 2.0%

-47.18 983.27 -35.00 983.00 -25.43 986.92 24.40 985.76 39.00 981.50 53.17 981.30

200'A'+50

RWTLE GAS 4.0% 2.0% FG=987.71 2.0% 4.0% TEL ELEC RW TLE

4.0:1 6.0:1 SG=986.38 6.0:1

-37.94 986.44 -30.55 984.59 -22.55 985.93 -14.00 986.10 12.92 986.12 21.47 985.85 38.58 983.10

200'A'+00

RWS GAS TEL ELEC RW TLE

BEGIN CONSTRUCTION
STA. 200'A'+00
MATCH EXISTING

10 FT 10 FT

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'A'-LINE (GOLIATH ROAD)	SHEET E

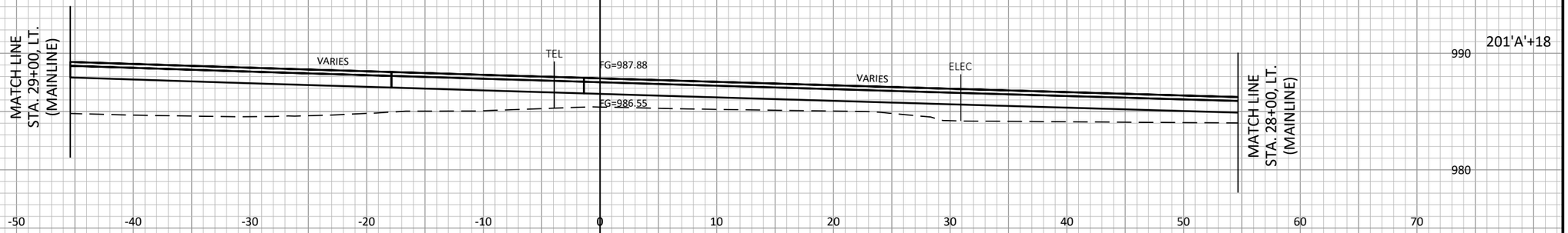
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - GOLIATH1

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

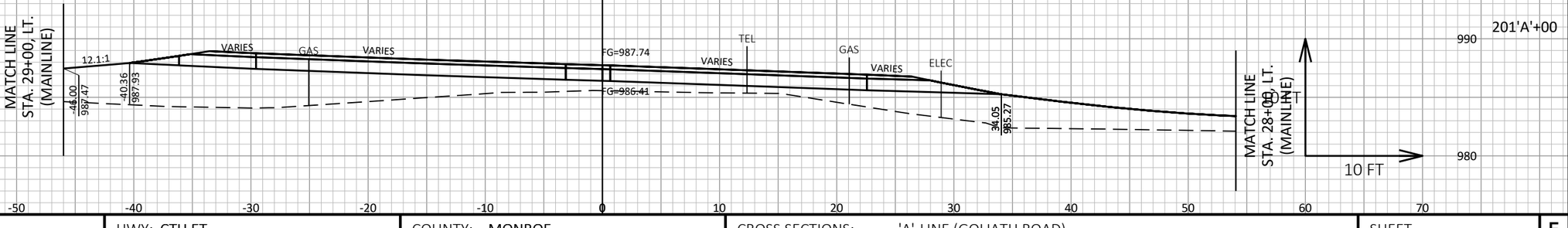
WISDOT/CADDS SHEET 49

9 9

END CONSTRUCTION
STA. 201'A'+18.35



201'A'+18



201'A'+00

9

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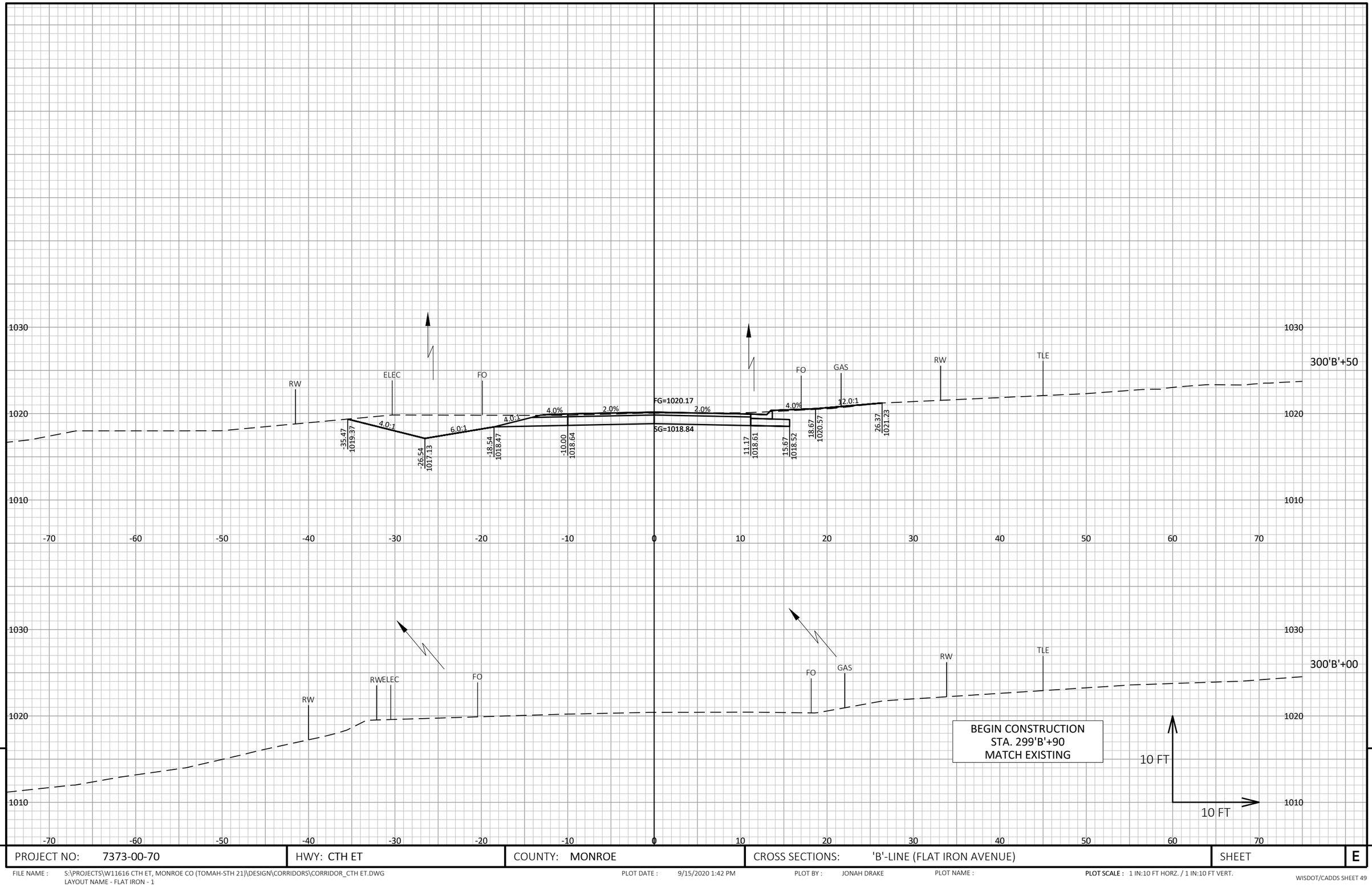
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'A'-LINE (GOLIATH ROAD)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - GOLIATH2

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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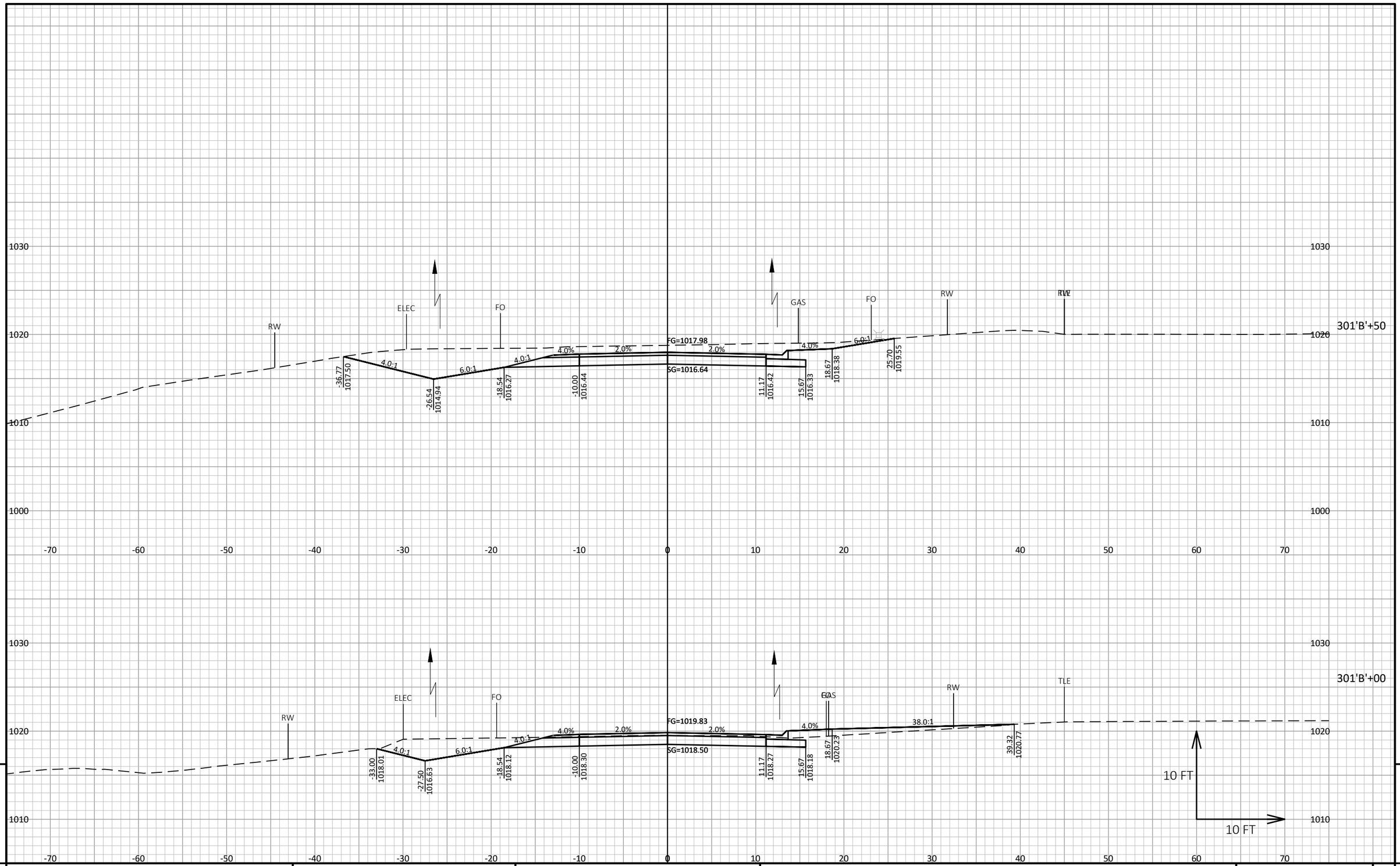
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FLAT IRON AVENUE)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON - 1

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

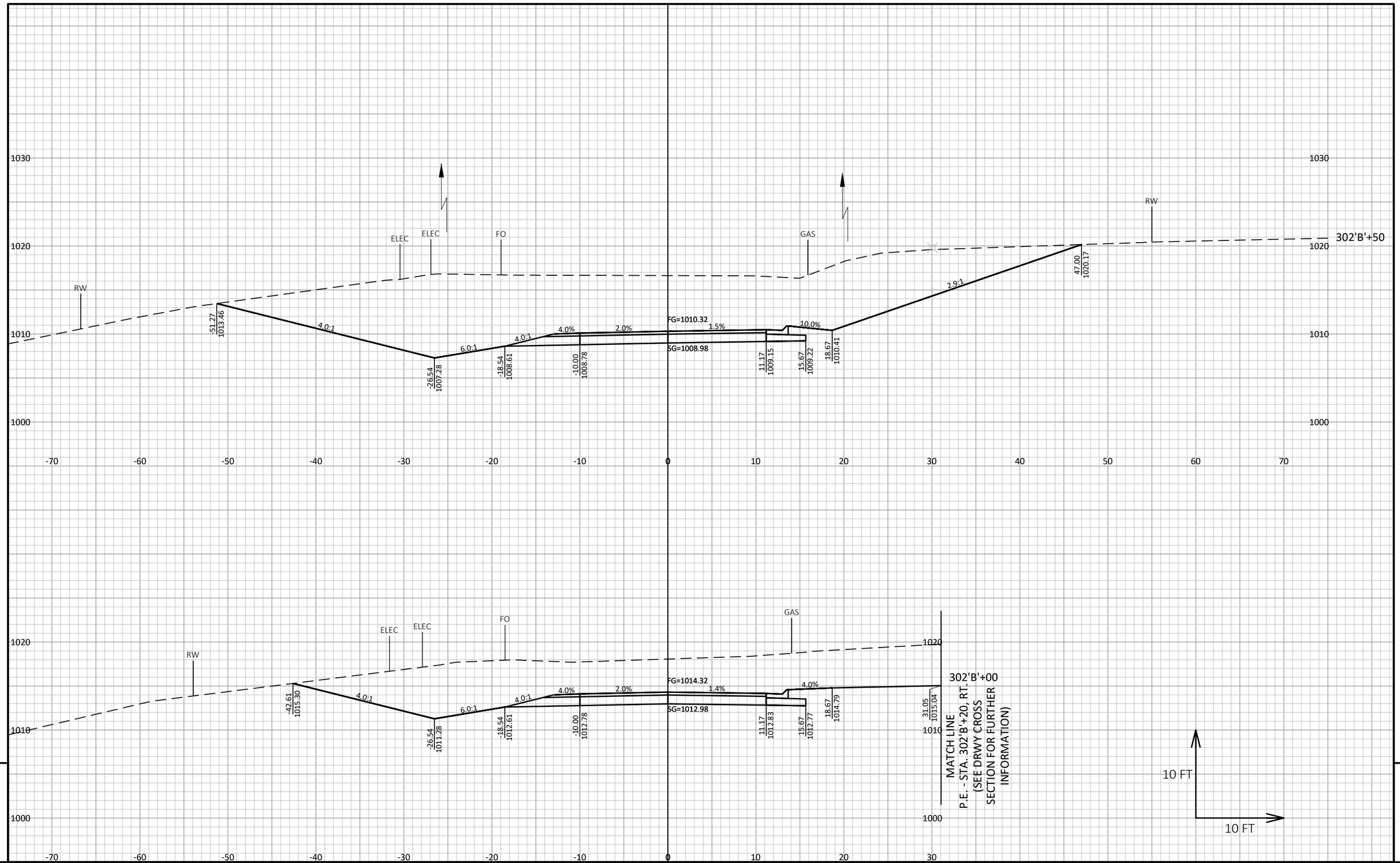


9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FLAT IRON AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON - 2

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

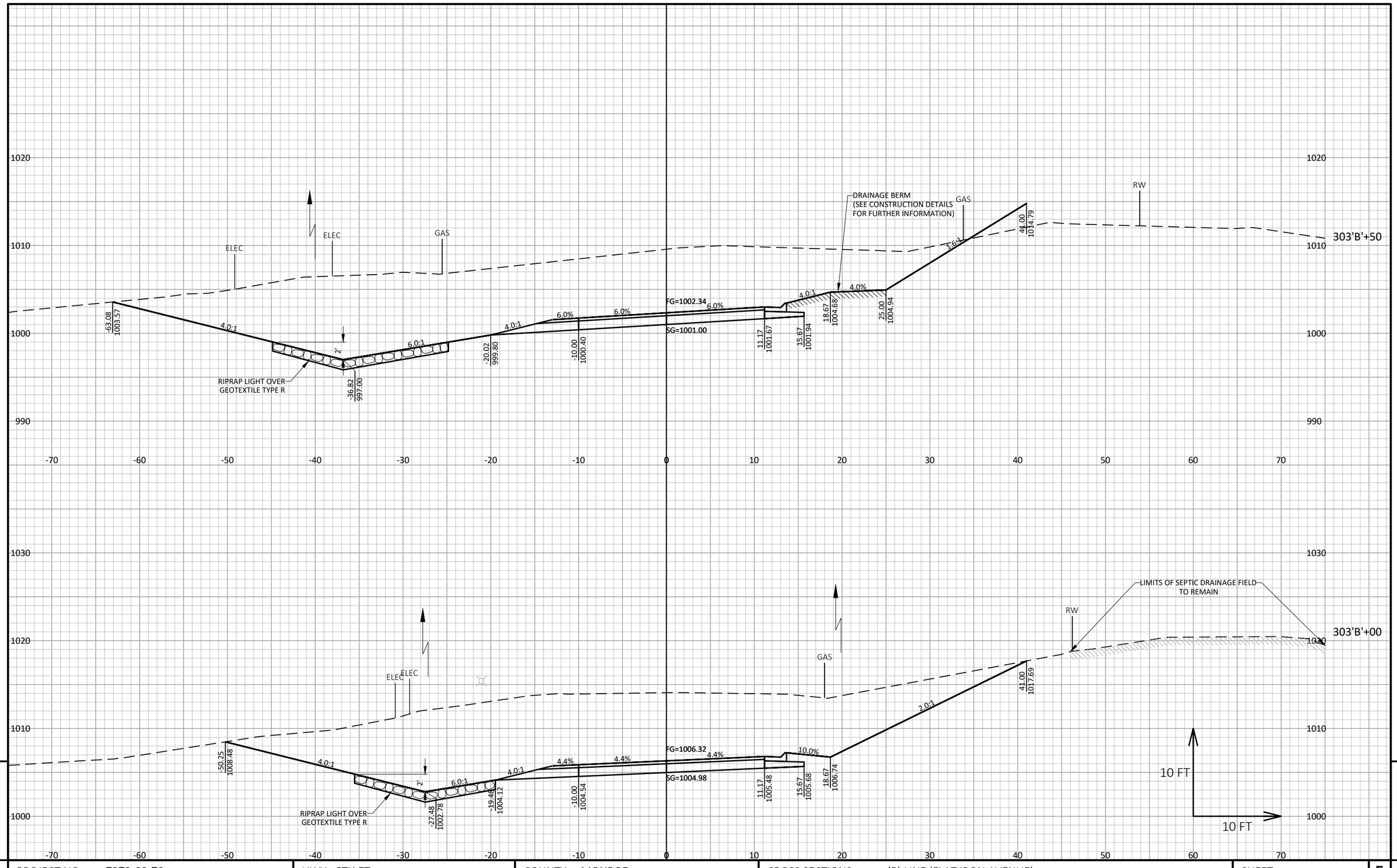


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FLAT IRON AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON - 3

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



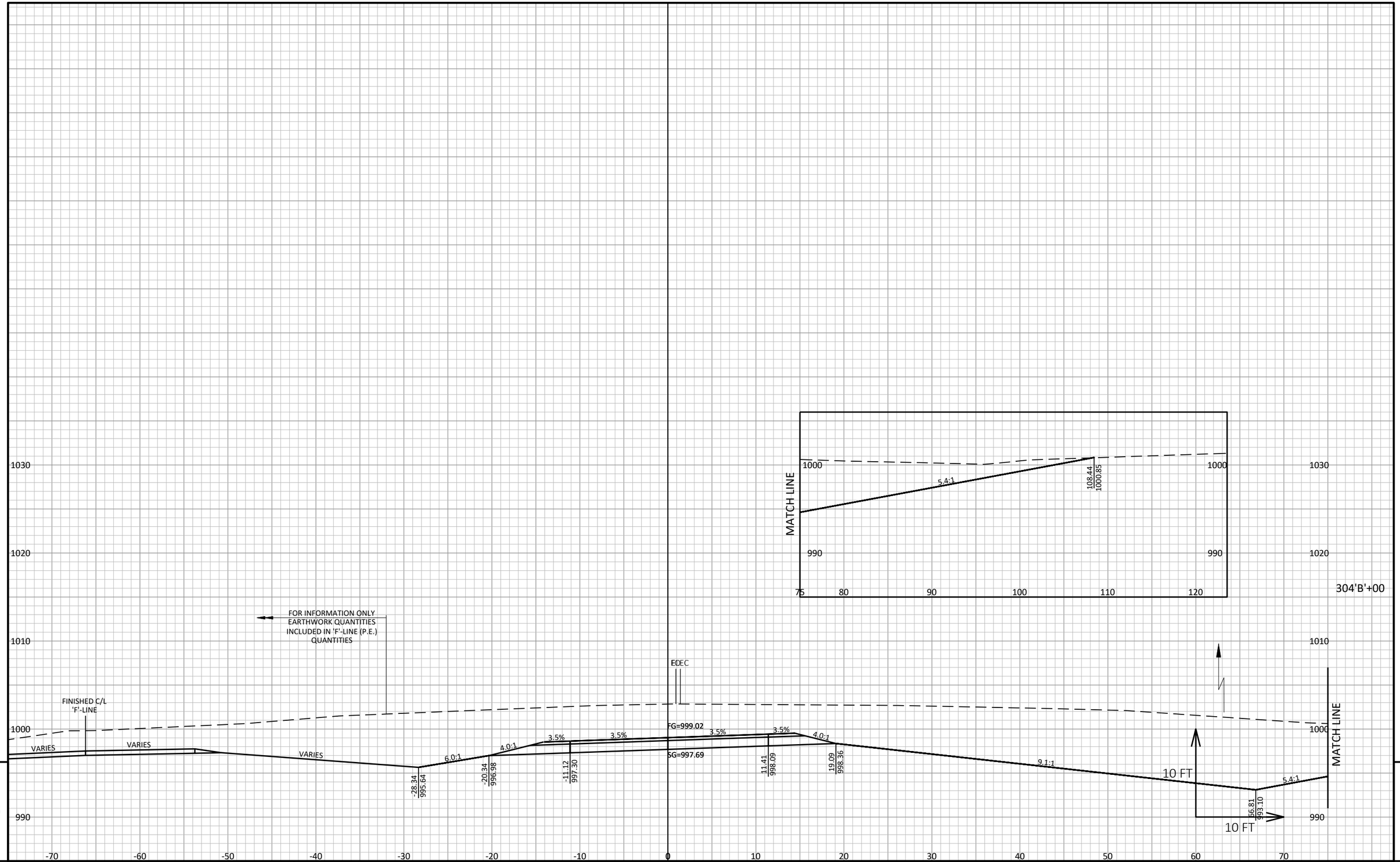
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FLAT IRON AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON - 4

PLOT DATE : 9/15/2020 1:42 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FLAT IRON AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON - 5

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA. 304'B'+95.32

MATCH LINE
STA. 33+50, LT.
(MAINLINE)

ELEC

VARIES

FG=995.23

SG=993.90

0.00
993.90

VARIES

SG=993.98

MATCH LINE
STA. 32+50, LT.
(MAINLINE)

304'B'+95

MATCH LINE

1000
990

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

MATCH LINE

1000
990

75 80 90 100 110

112.33
990.00

17.5:1

MATCH LINE
STA. 32+00, LT.
(MAINLINE)

304'B'+50

MATCH LINE
STA. 33+50, LT.
(MAINLINE)

1020
1010
1000
990
980

-59.00
994.00

69.2:1

-34.54
993.65

6.0:1

-24.15
995.40

4.0:1

0.3%

0.3%

FG=996.67

0.3%

0.3%

4.0:1

SG=995.33

14.49
995.29

22.90
995.26

17.5:1

ELEC

MATCH LINE

10 FT

10 FT

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

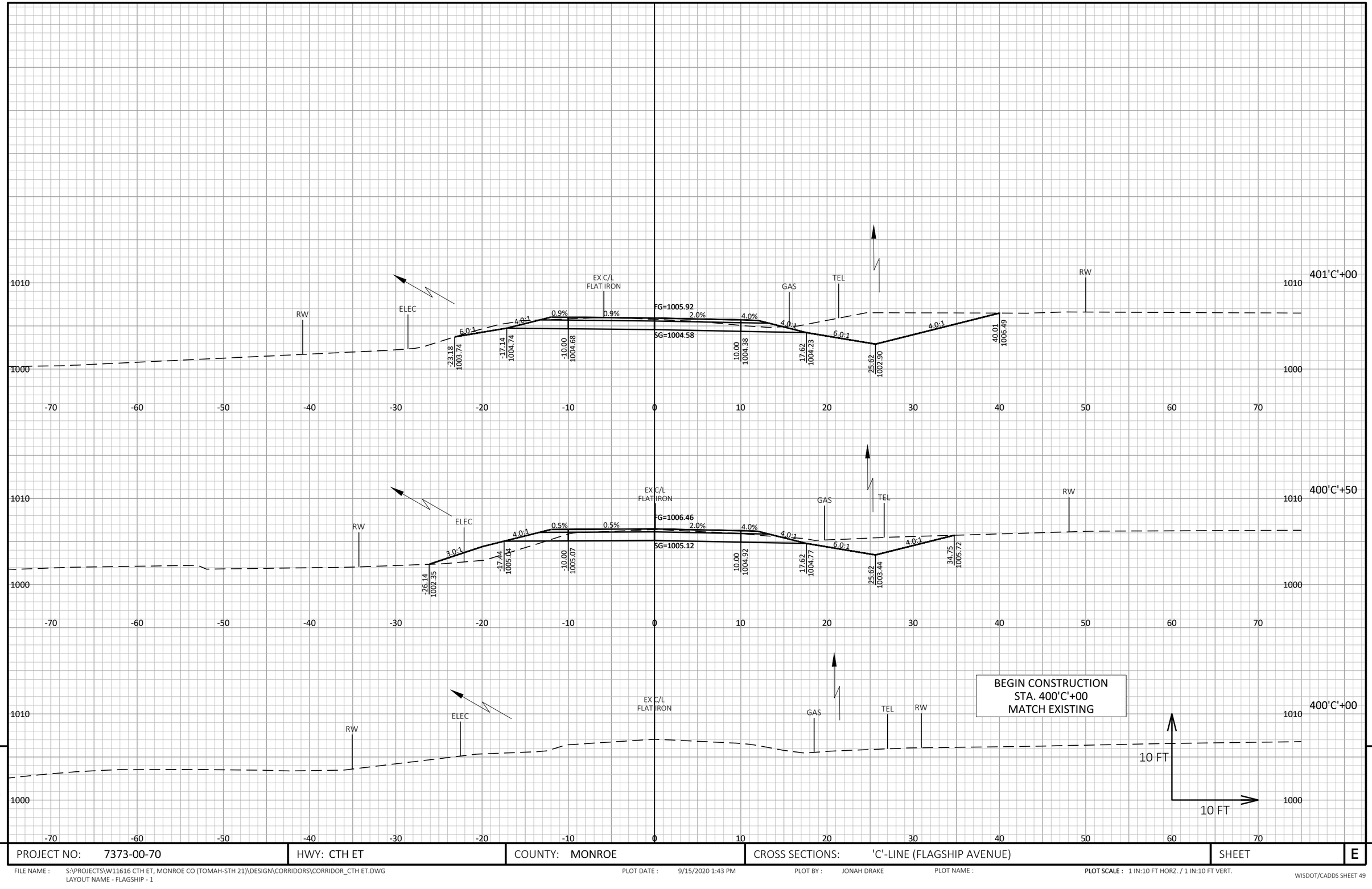
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'B'-LINE (FLAT IRON AVENUE)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON - 6

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

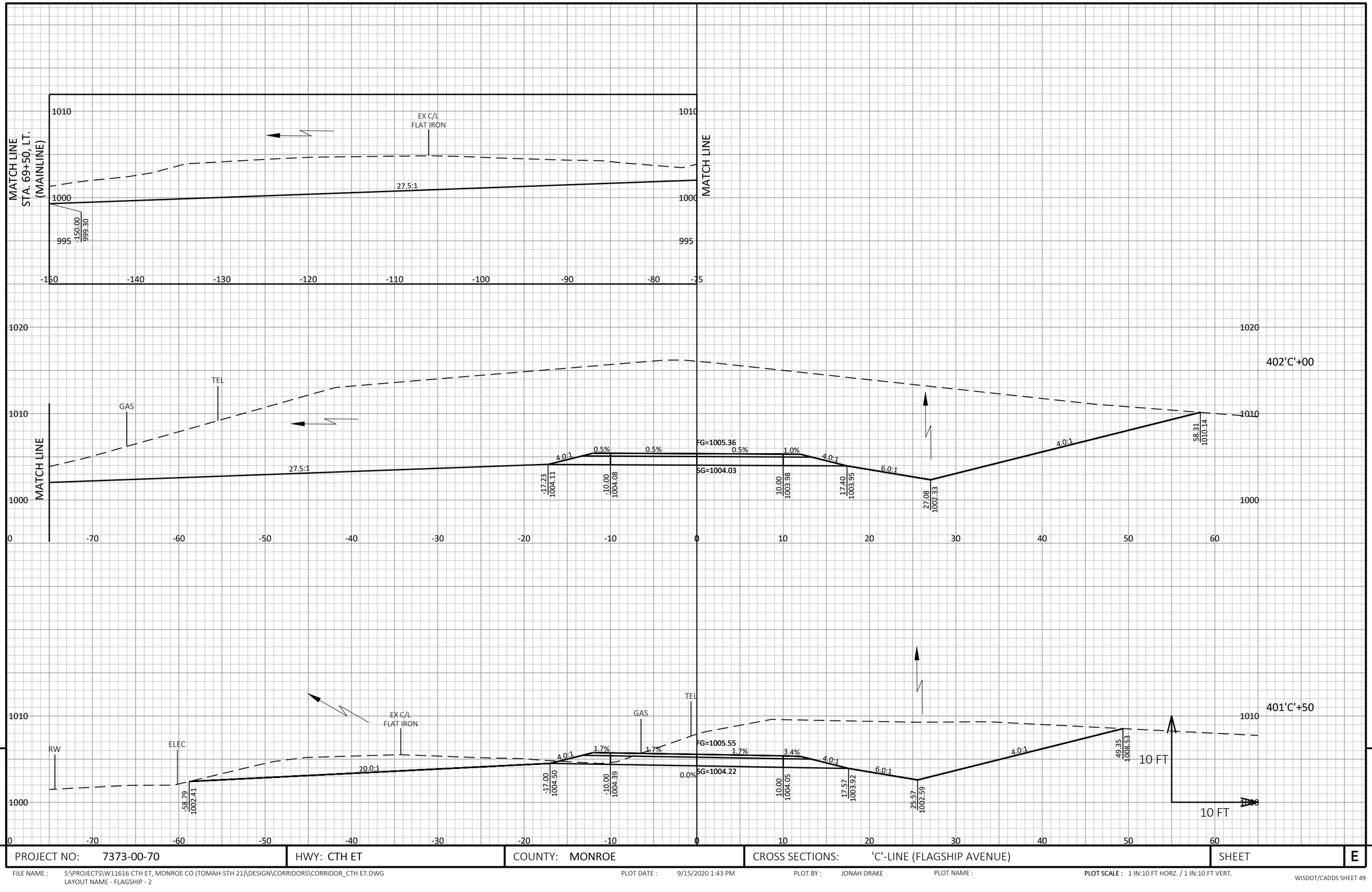


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FLAGSHIP AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAGSHIP - 1

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

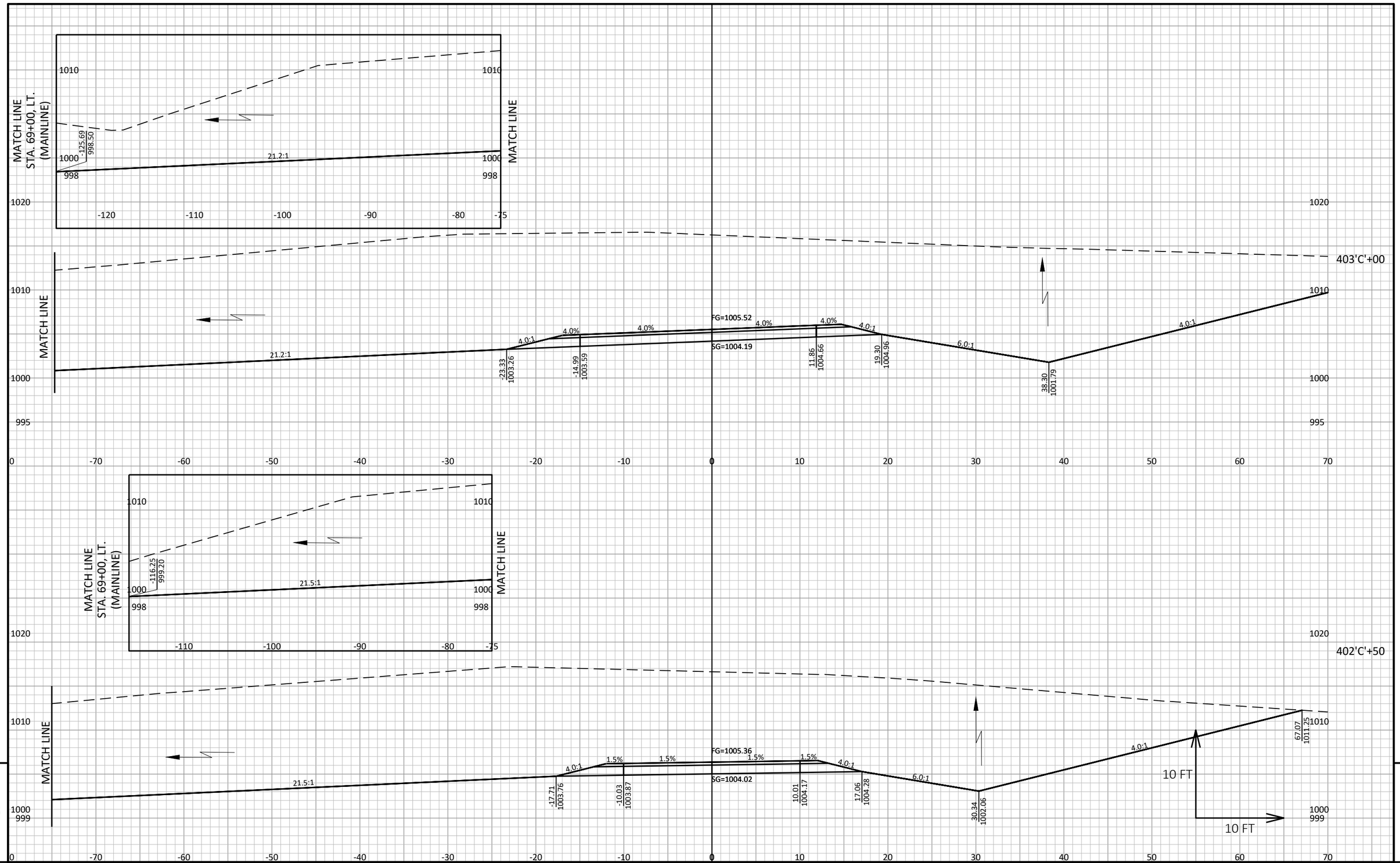


PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FLAGSHIP AVENUE)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAGSHIP - 2

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



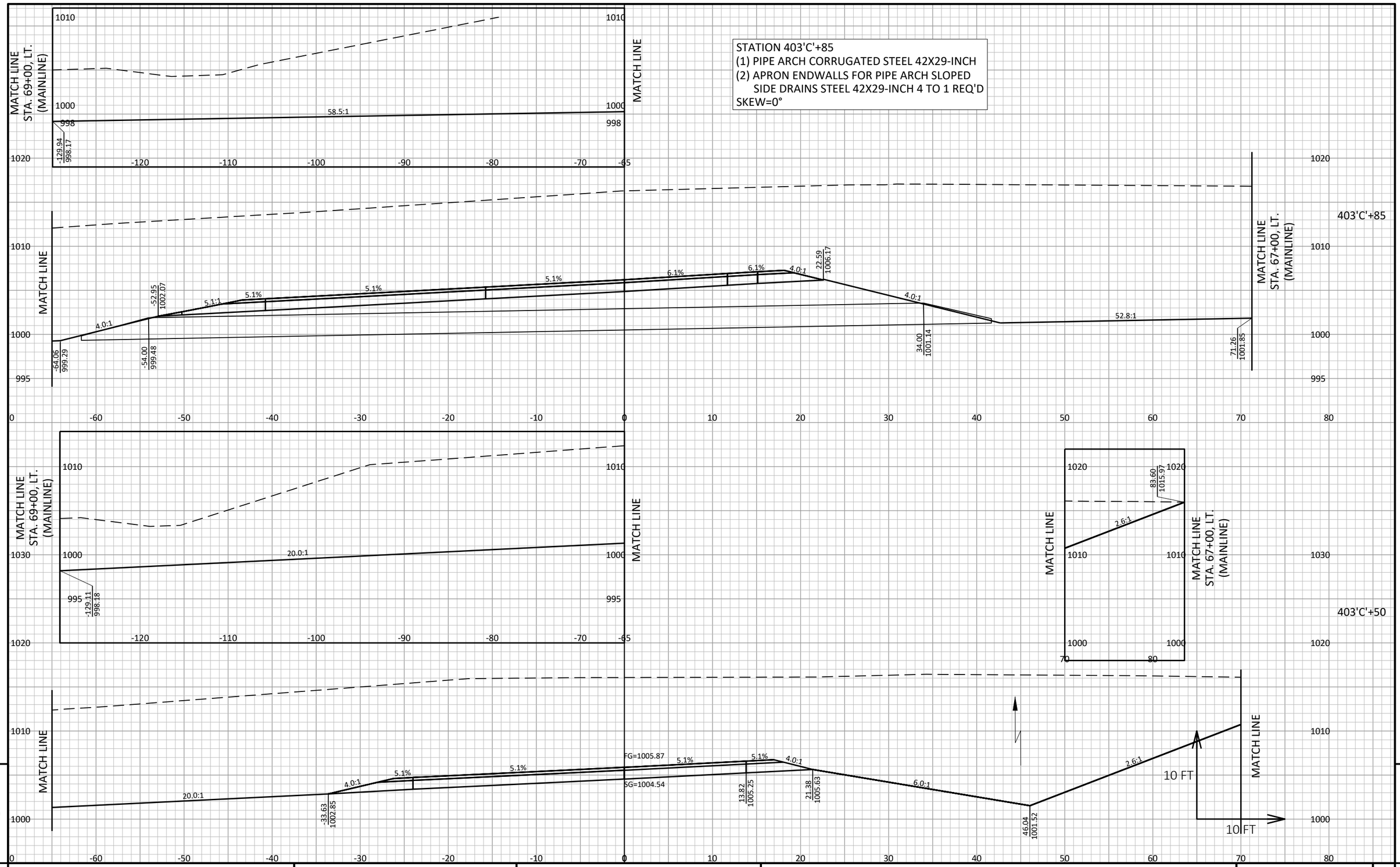
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FLAGSHIP AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAGSHIP - 3

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STATION 403'C'+85
(1) PIPE ARCH CORRUGATED STEEL 42X29-INCH
(2) APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS STEEL 42X29-INCH 4 TO 1 REQ'D
SKEW=0°



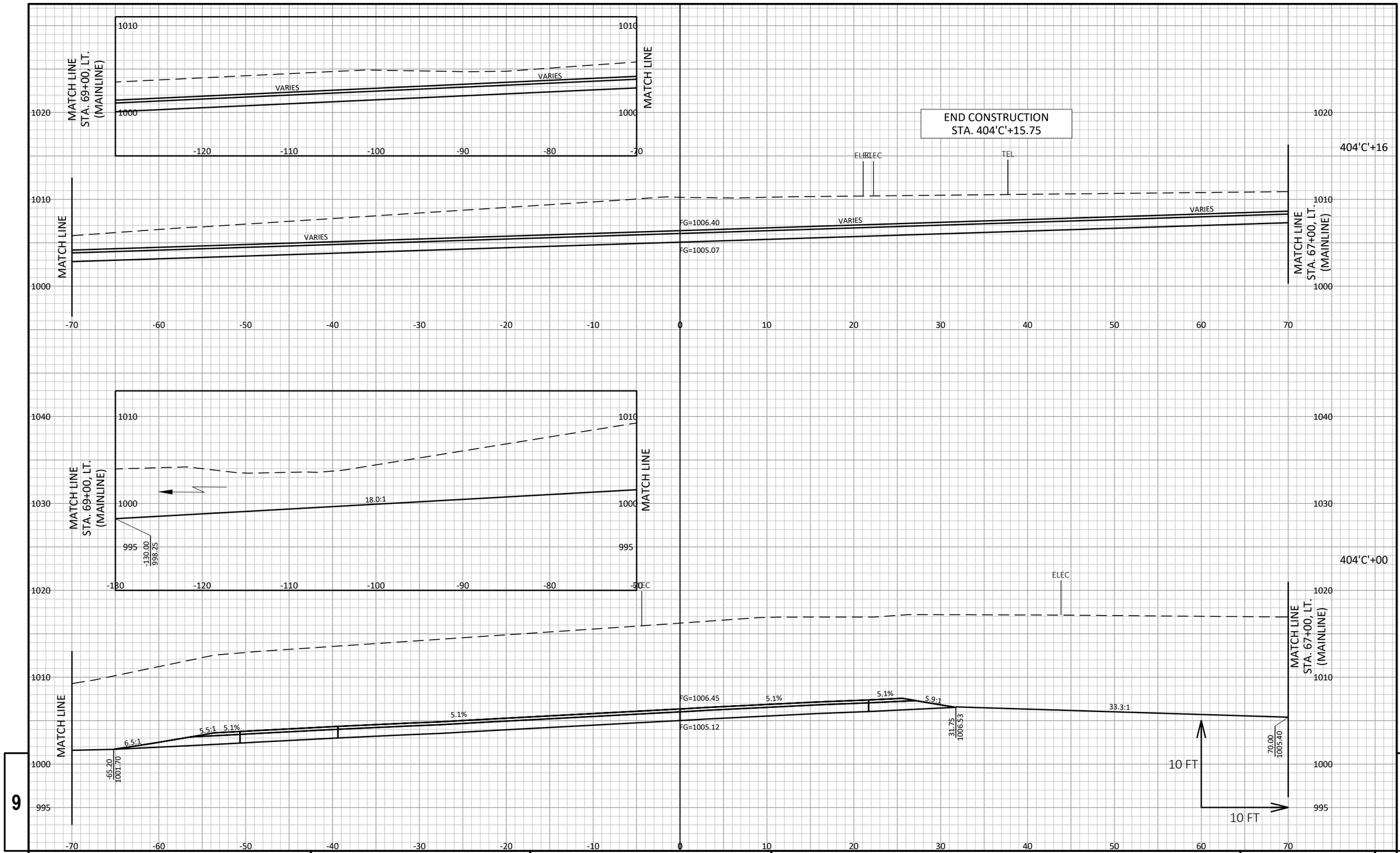
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FLAGSHIP AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAGSHIP - 4

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'C'-LINE (FLAGSHIP AVENUE)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAGSHIP - 5

PLOT DATE : 9/15/2020 1:43 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA. 501'D'+50
MATCH EXISTING

501'D'+50

RW TEL RW OH

501'D'+00

RW OH RW

-34.21 991.92 | -28.56 990.51 | -20.66 991.82 | -12.12 991.99 | FG=993.57 | SG=992.24 | 12.43 991.99 | 20.98 991.82 | 30.40 990.25 | 38.26 991.56

4.0:1 6.0:1 4.0% 2.0% 2.0% 4.0%

500'D'+50

RW ELEC ELEC OH

-41.73 992.98 | -36.27 991.76 | -27.30 993.05 | -17.92 993.14 | FG=994.89 | FG=993.56 | 20.72 993.38 | 30.45 993.37 | 48.28 990.50 | 53.46 991.65

4.0:1 6.0:1 4.0% 2.0% 2.0% 4.0%

MATCH LINE STA. 100+00, RT. (MAINLINE)

VARIES VARIES 0.1% VARIES 0.1%

BEGIN CONSTRUCTION
STA. 500'D'+18

500'D'+18

MATCH LINE STA. 102+00, RT. (MAINLINE)

VARIES VARIES VARIES VARIES

FG=995.85 | FG=994.52

OH 10 FT 10 FT

MATCH LINE

-80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 65 70 80 90 100 110

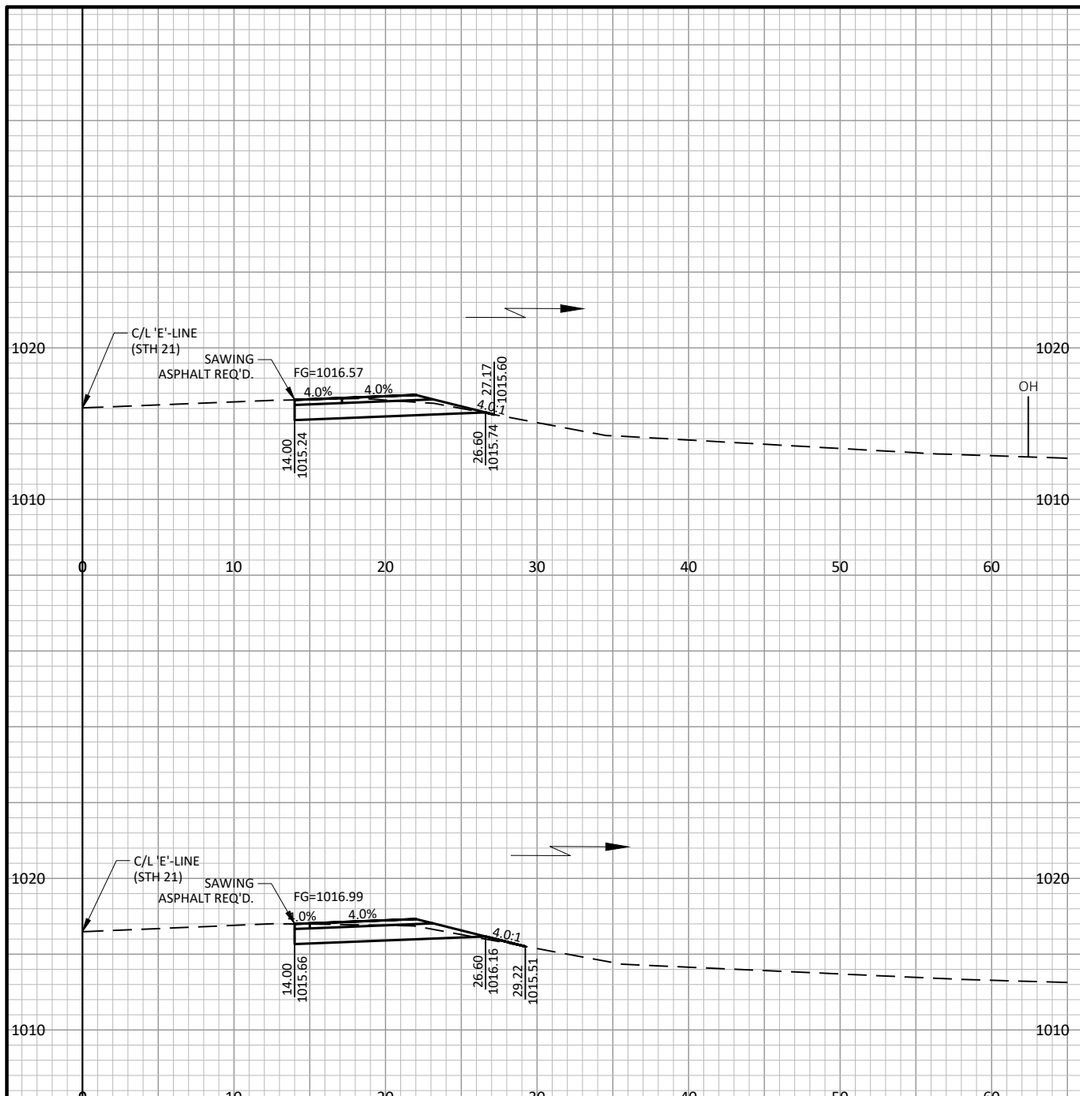
1000 990

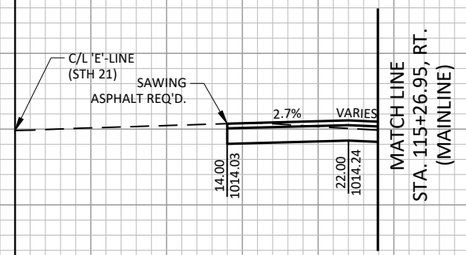
9 9

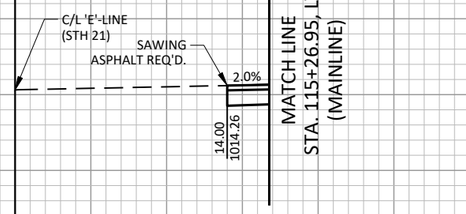
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'D'-LINE (FLARE AVENUE)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLARE1

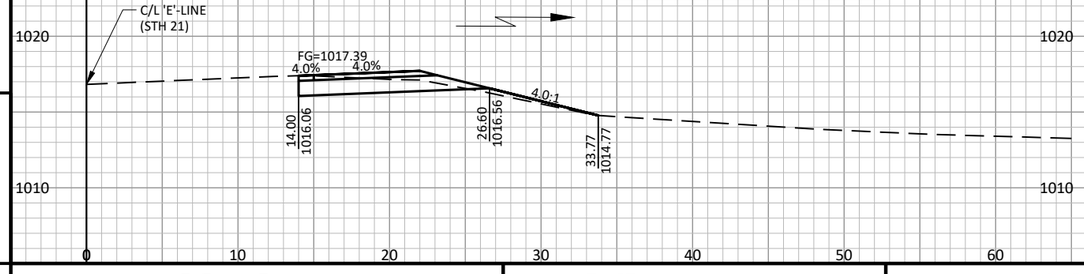
PLOT DATE : 9/15/2020 1:44 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

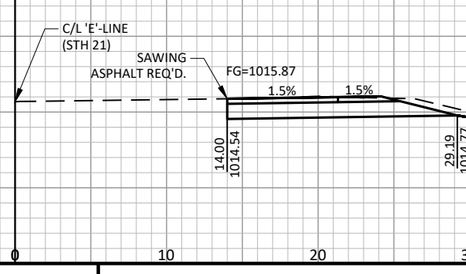


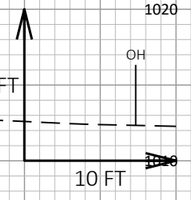




BEGIN CONSTRUCTION
STA. 599'E'+60







9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'E'-LINE (STH 21)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - STH 21 - 1

PLOT DATE : 9/15/2020 1:44 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA. 603'E'+45

603'E'+45

C/L 'E'-LINE
(STH 21)

1020
1010
1000

0 10 20 30 40 50 60

603'E'+00

C/L 'E'-LINE
(STH 21)
SAWING
ASPHALT REQ'D.
FG=1014.53
3.4%
3.4%
4.0:1
OH
14.00
1013.19
26.69
1013.68
41.30
1009.97

602'E'+50

C/L 'E'-LINE
(STH 21)
SAWING
ASPHALT REQ'D.
FG=1014.88
2.7%
2.7%
4.0:1
GAS
14.00
1013.54
32.13
1014.03
46.66
1010.40

10 FT
10 FT

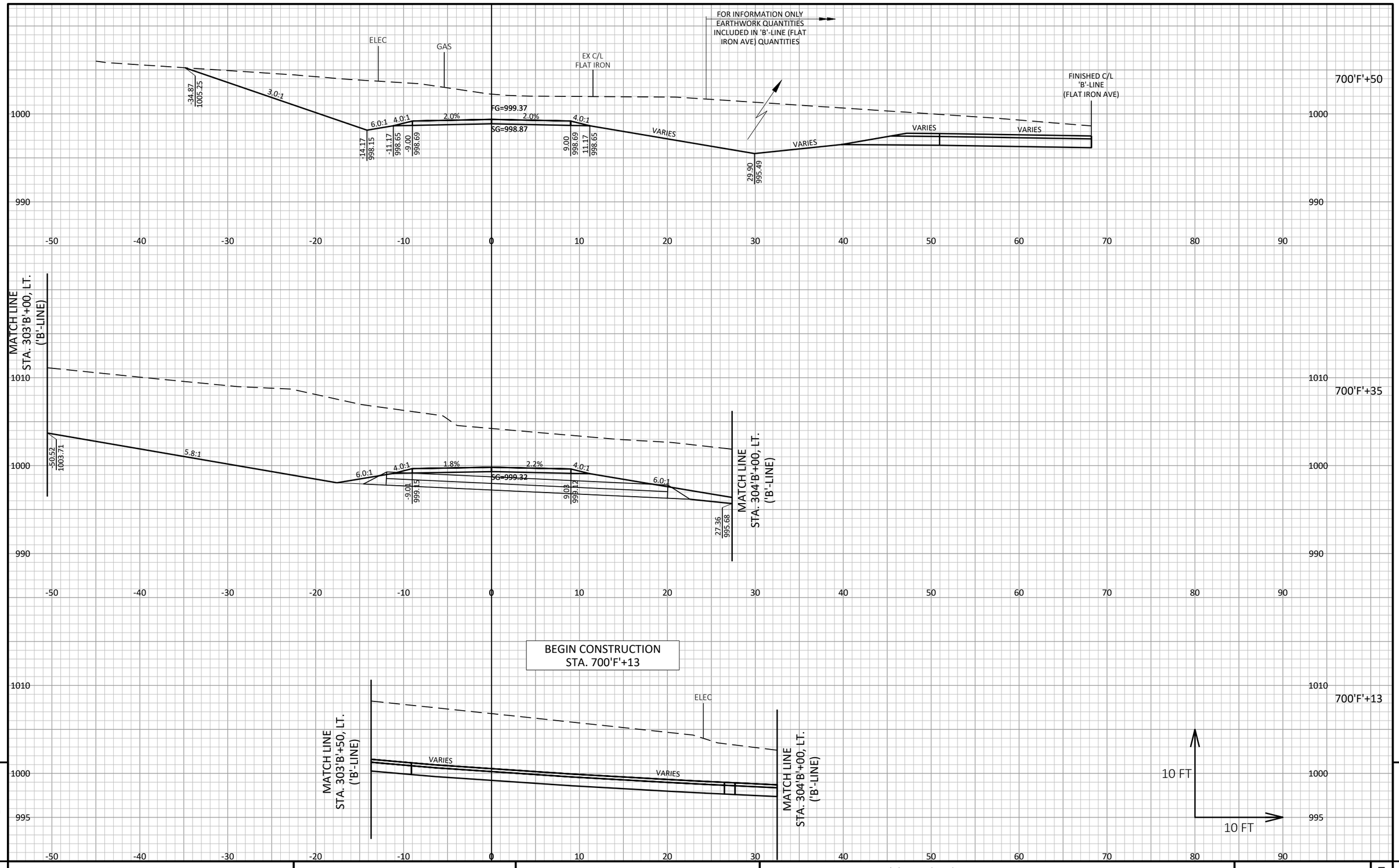
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'E'-LINE (STH 21)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - STH 21 - 2

PLOT DATE : 9/15/2020 1:44 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'F'-LINE (P.E.)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DW FLAT IRON LT - 1

PLOT DATE : 9/15/2020 1:44 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA. 701'F'+80
MATCH EXISTING

701'F'+80

RW

1010
1000
990

-30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110

FOR INFORMATION ONLY
EARTHWORK QUANTITIES
INCLUDED IN MAINLINE
QUANTITIES

FINISHED C/L
MAINLINE
(CTH ET)

ELEC
GAS
EX. C/L
CTH ET
TEL

FG=995.37
SG=994.87

2.5:1
6.0:1
4.0:1
2.0%
2.0%
4.0:1

-26.64
996.29
-19.17
993.31
-11.17
994.85
-9.00
994.69
9.00
994.69
11.17
994.65
39.40
991.00

VARIES
VARIES
VARIES
VARIES
TEL

701'F'+50

1010
1000
990
980

-30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110

FOR INFORMATION ONLY
EARTHWORK QUANTITIES
INCLUDED IN MAINLINE
QUANTITIES

FINISHED C/L
'B'-LINE
(FLAT IRON AVE)

ELEC
GAS
EX C/L
FLAT IRON

FG=997.42
SG=996.92

2.5:1
6.0:1
4.0:1
2.0%
2.0%
4.0:1

-23.00
996.89
-19.17
995.36
-11.17
996.70
-9.00
996.74
9.00
996.74
11.17
996.70
50.18
993.22

VARIES
VARIES
VARIES
VARIES
TEL

10 FT
10 FT

701'F'+00

1010
1000
990

-30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110

9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'F'-LINE (P.E.)	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DW FLAT IRON LT - 2

PLOT DATE : 9/15/2020 1:44 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

TLE

-43.08
1012.95

2.5:1

-17.08
1002.55

6.0:1

-9.08
1003.89

-6.00
1003.95

2.0%

FG=1004.78

2.0%

SG=1004.07

6.00
1003.95

9.08
1003.89

RW

6.7:1

53.17
997.28

MATCH LINE
STA. 304'B'+00, RT.
('B'-LINE)

710'G'+50

does this match line work? 710+50G

MATCH LINE
STA. 710'G'+50, LT.
('G'-LINE)

-43.35
1009.50

-21.26
1009.30

three foot cut at the beginning of a station.

BEGIN CONSTRUCTION
STA. 710'G'+00
MATCH EXISTING

TLE

710'G'+00

10 FT

10 FT

1020
1010
1000
990

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'G'-LINE (P.E.)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DW FLAT IRON RT - 1

PLOT DATE : 9/15/2020 1:44 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA. 711'G'+07.41

711'G'+07

MATCH LINE
STA. 303'B'+50, RT.
('B'-LINE)

MATCH LINE
STA. 304'B'+00, RT.
('B'-LINE)

VARIES

VARIES

FG=1001.79

FG=1000.46

-16.50
1001.15

38.92
998.15

711'G'+00

DRAINAGE BERM
(SEE CONSTRUCTION DETAILS
FOR FURTHER INFORMATION)

EX C/L
FLAT IRON

MATCH LINE
STA. 303'B'+50, RT.
('B'-LINE)

MATCH LINE
STA. 304'B'+00, RT.
('B'-LINE)

-16.68
1004.69

4.0:1

2.0%

2.0%

FG=1002.14

SG=1001.43

9.8:1

-6.00
1001.31

6.00
1001.31

9.08
1001.25

40.77
998.01

10 FT

10 FT

1010

1000

990

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'G'-LINE (P.E.)	SHEET	E

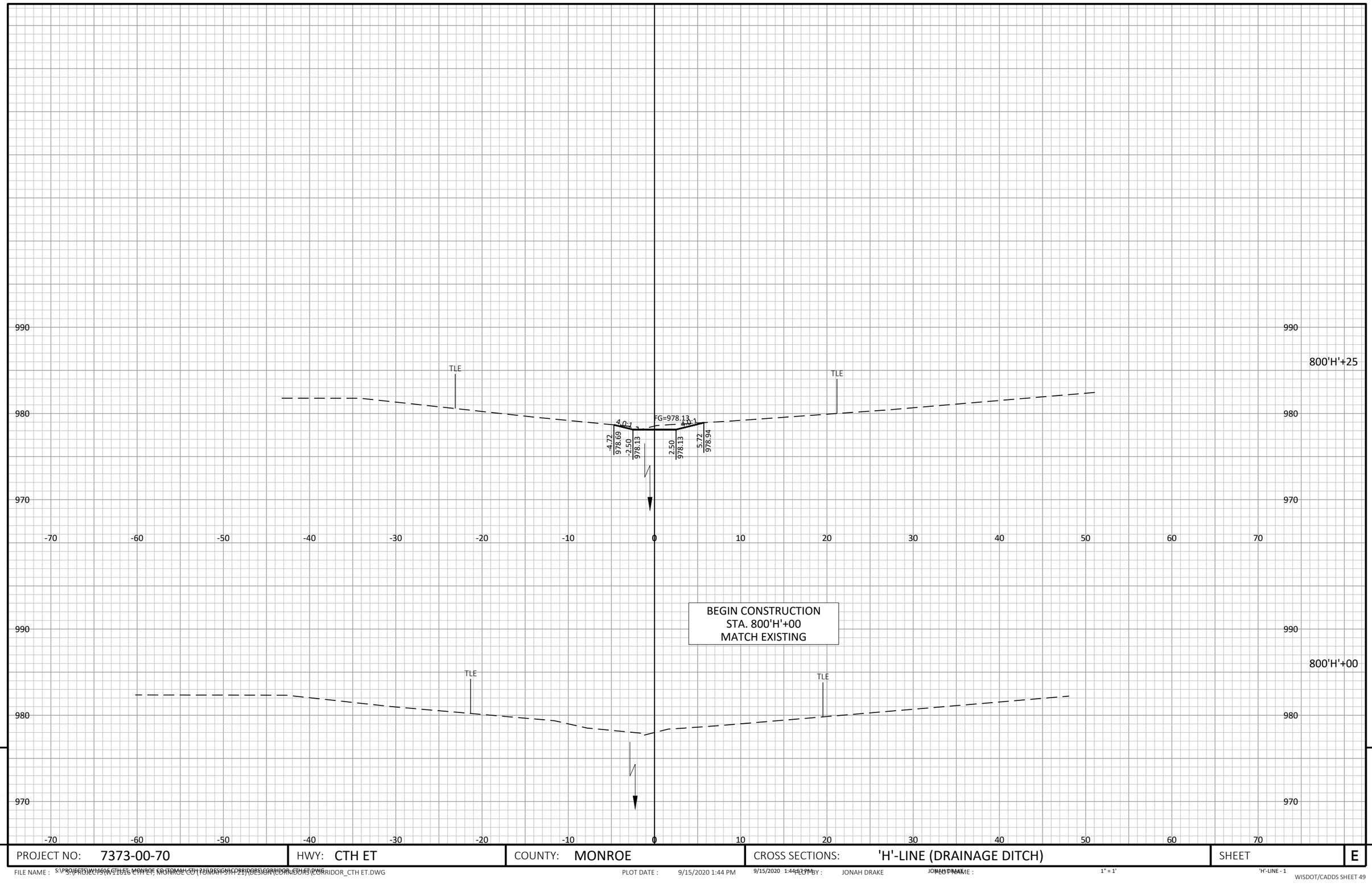
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DW FLAT IRON RT - 2

PLOT DATE : 9/15/2020 1:44 PM

PLOT BY : JONAH DRAKE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

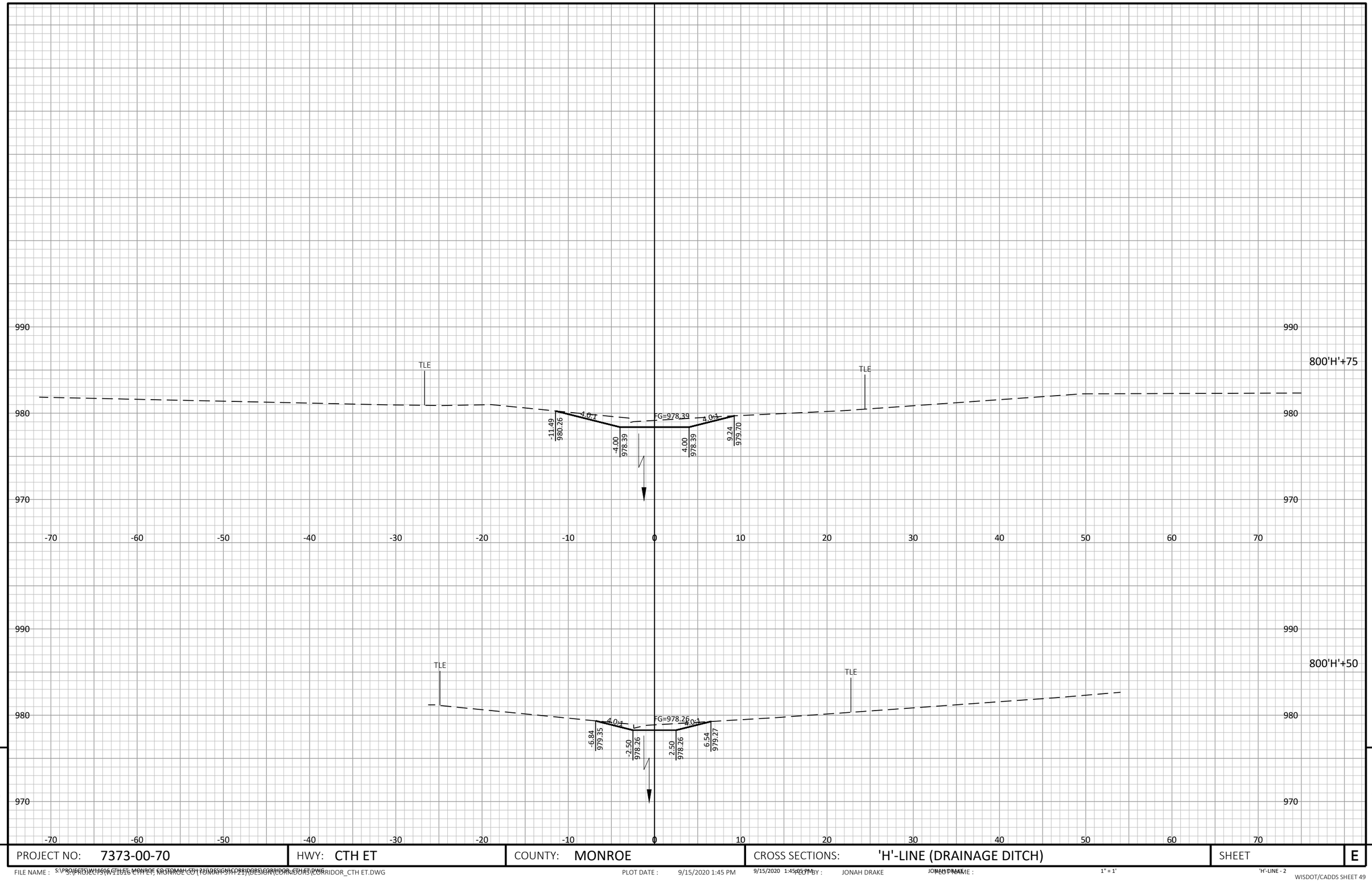


9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'H'-LINE (DRAINAGE DITCH)	SHEET	E

FILE NAME : S:\PROJECTS\W1616\CTH ET, MONROE CO (TOMAH-CTH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
PLOT DATE : 9/15/2020 1:44 PM
9/15/2020 1:44:57 PM
PLOT BY : JONAH DRAKE
JONAH DRAKE
PLOT NAME :
1" = 1'
'H'-LINE - 1
WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'H'-LINE (DRAINAGE DITCH)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-SPT 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
PLOT DATE : 9/15/2020 1:45 PM
9/15/2020 1:45:05 PM
PLOT BY : JONAH DRAKE
JONAH DRAKE
1" = 1'
'H'-LINE - 2
WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA. 801'H'+34.65

801'H'+35

990
980
970

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

FG=978.70
4.0:1
4.0:1
-21.77
980.39
-15.00
978.70
15.00
978.70
24.48
981.07

801'H'+25

990
980
970

FG=978.65
4.0:1
4.0:1
-21.89
980.37
-15.00
978.65
15.00
978.65
23.57
980.79

801'H'+00

990
980
970

RW

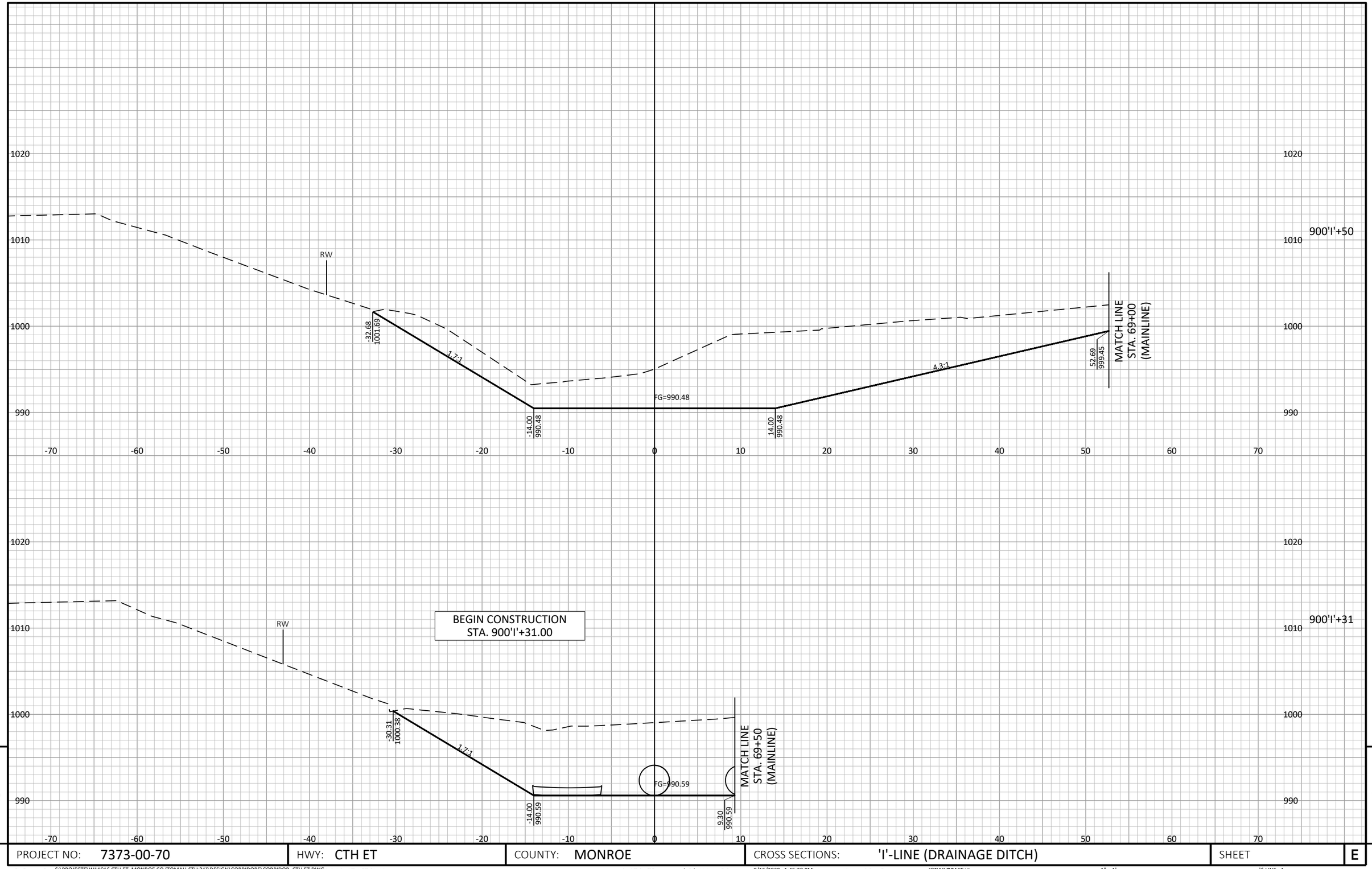
FG=978.52
4.0:1
4.0:1
-18.32
980.73
-9.50
978.52
9.50
978.52
15.65
980.06

9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'H'-LINE (DRAINAGE DITCH)	SHEET	E

FILE NAME : S:\PROJECTS\1W1616 CTH ET, MONROE CO (TOMAH-CTH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
PLOT DATE : 9/15/2020 1:45 PM
9/15/2020 1:45:12 PM
PLOT BY : JONAH DRAKE
JONAH DRAKE
PLOT NAME :
1" = 1'
'H'-LINE - 3

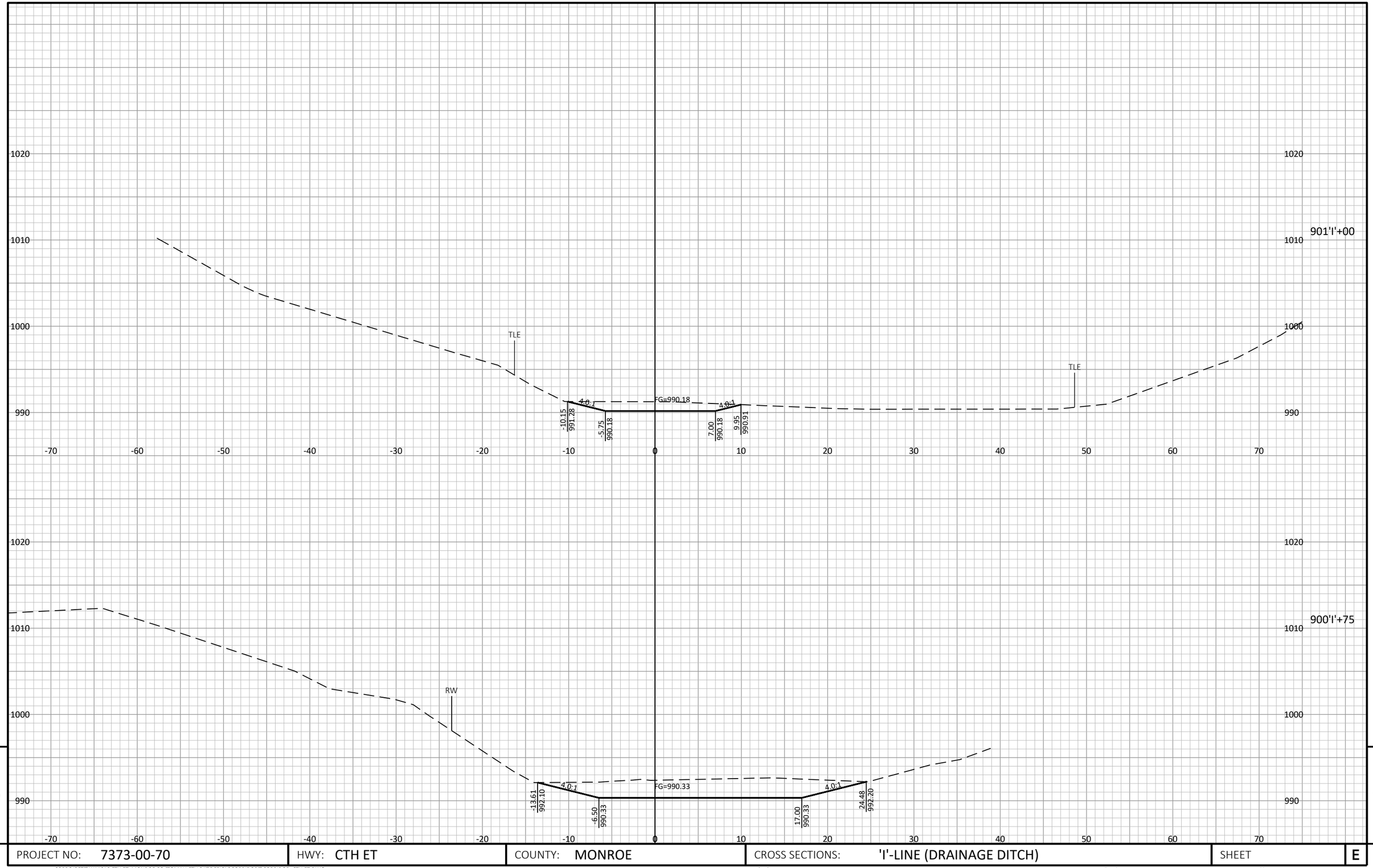


9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'I'-LINE (DRAINAGE DITCH)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
PLOT DATE : 9/15/2020 1:45 PM
9/15/2020 1:45:20 PM PLOT BY : JONAH DRAKE
JONAH DRAKE PLOT NAME : 1" = 1' 'I'-LINE - 1

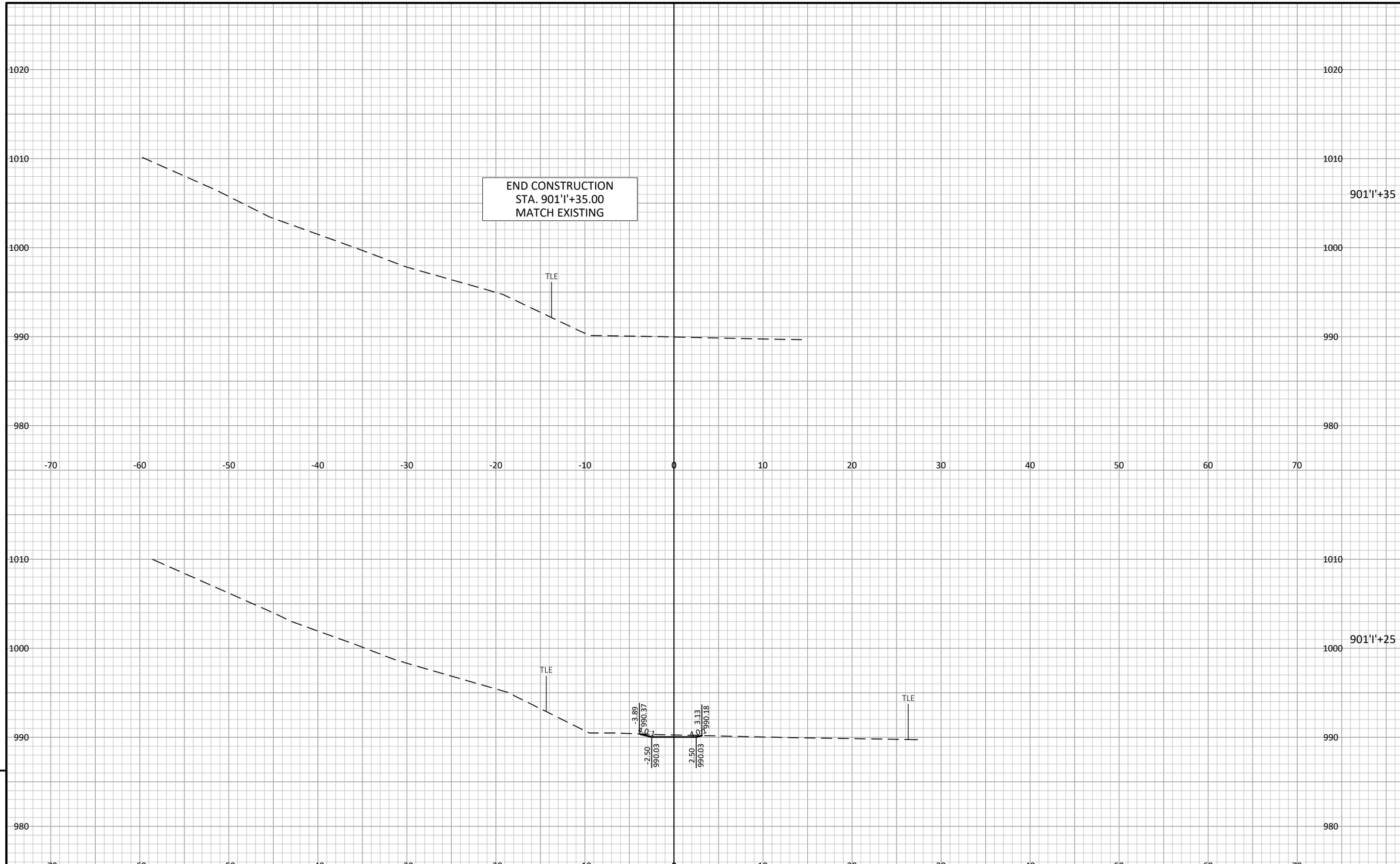


9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'I'-LINE (DRAINAGE DITCH)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
PLOT DATE : 9/15/2020 1:45 PM
9/15/2020 1:45:28 PM PLOTTED BY : JONAH DRAKE
JONAH DRAKE PLOT NAME : 1" = 1'
'I'-LINE - 2



9

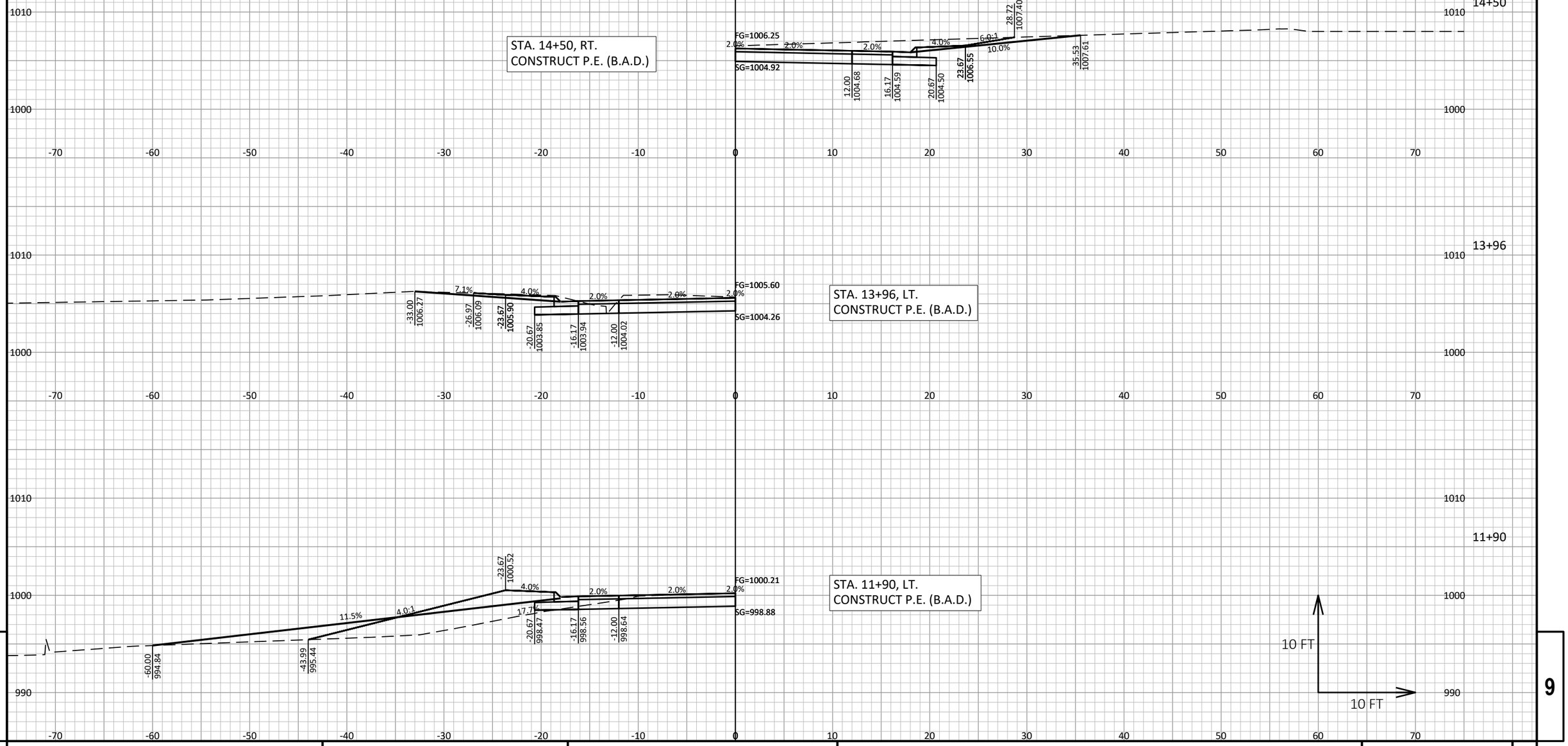
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: 'I'-LINE (DRAINAGE DITCH)	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG PLOT DATE : 9/15/2020 1:45 PM 9/15/2020 1:45:36 PM PLOT BY : JONAH DRAKE JONAH DRAKE PLOT NAME : 1" = 1' 'I'-LINE - 3

WISDOT/CADDS SHEET 49

STA. 14+50, RT.
CONSTRUCT P.E. (B.A.D.)



STA. 13+96, LT.
CONSTRUCT P.E. (B.A.D.)

STA. 11+90, LT.
CONSTRUCT P.E. (B.A.D.)

9

9

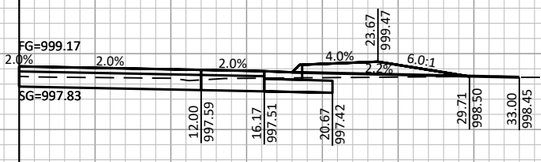
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 1

PLOT DATE : 9/15/2020 1:45 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

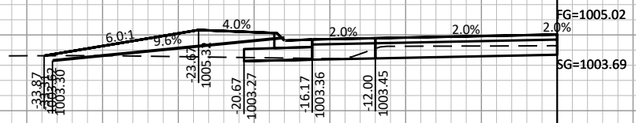
WISDOT/CADDS SHEET 49

STA. 17+87, RT.
CONSTRUCT F.E. (B.A.D.)



17+87

STA. 15+83, LT.
CONSTRUCT P.E. (B.A.D.)



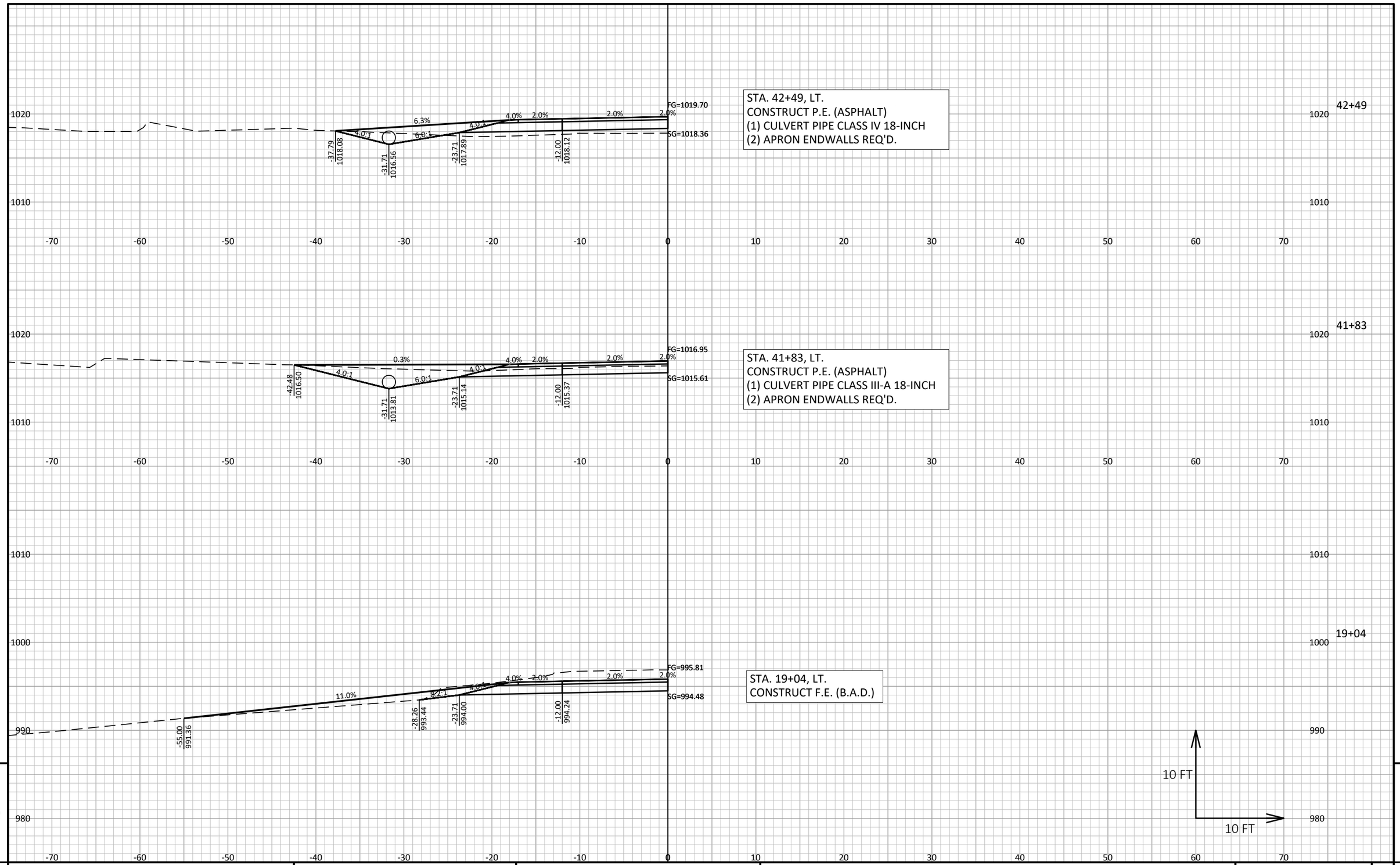
15+83

10 FT
10 FT

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 2

PLOT DATE : 9/15/2020 1:45 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



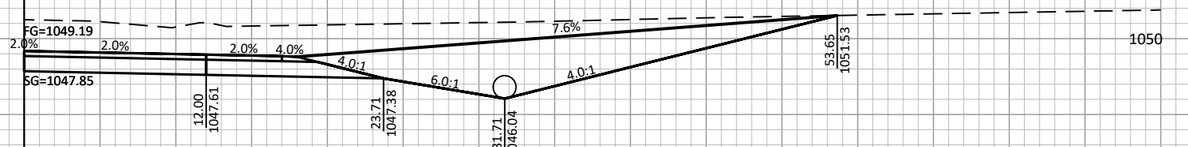
9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 3

PLOT DATE : 9/15/2020 1:45 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

STA. 53+25, RT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 45+17, RT.
CONSTRUCT F.E. (B.A.D.)

9

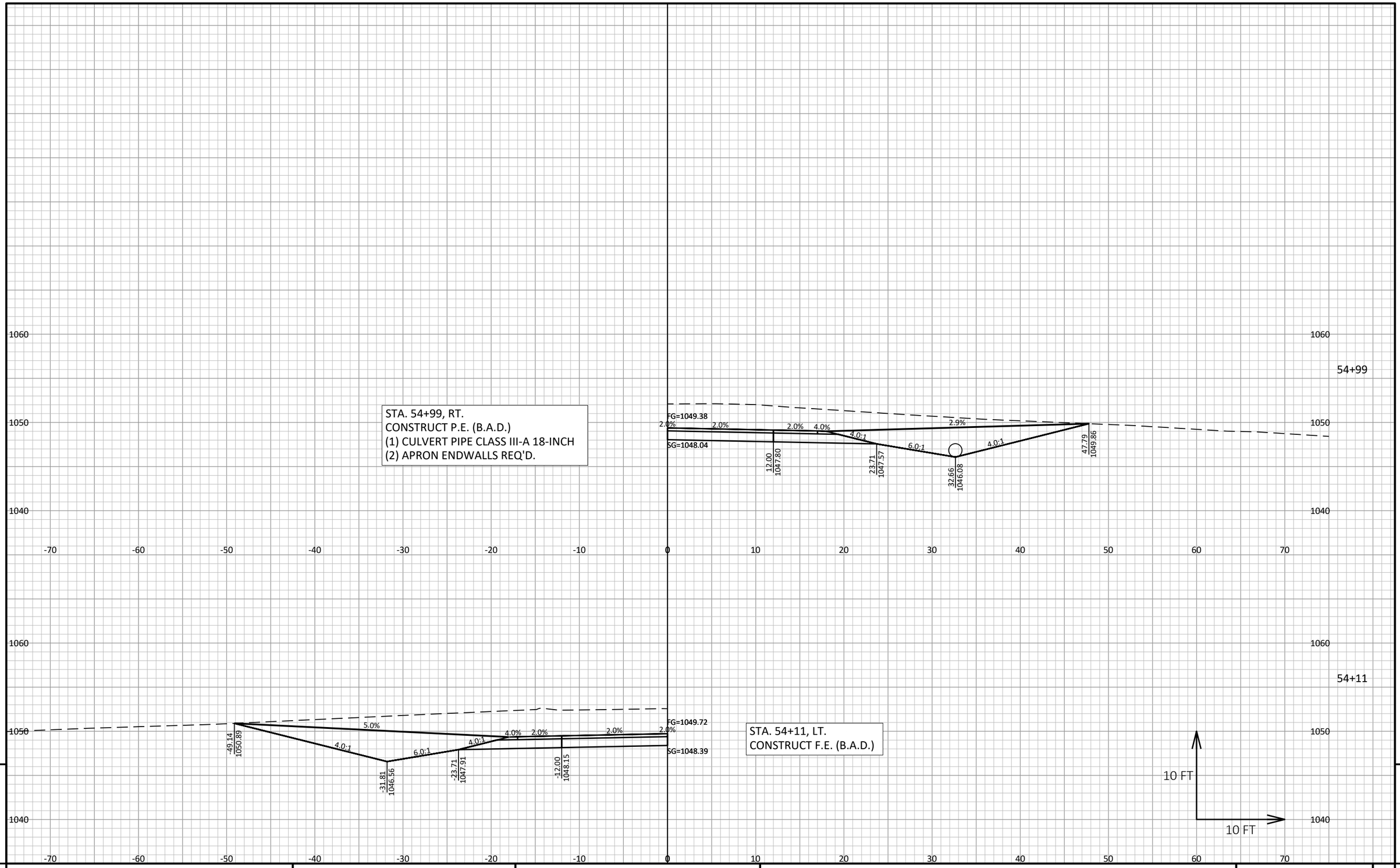
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 4

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

STA. 54+99, RT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 54+11, LT.
CONSTRUCT F.E. (B.A.D.)

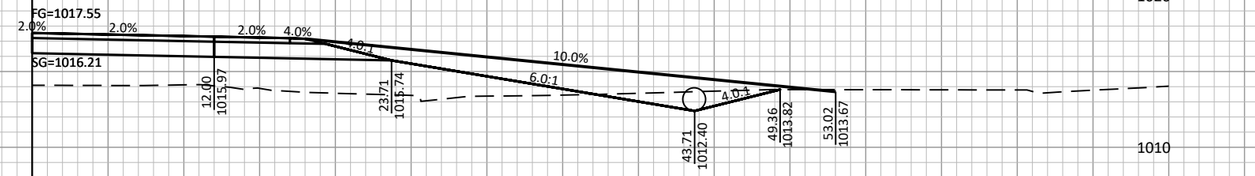
9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET E

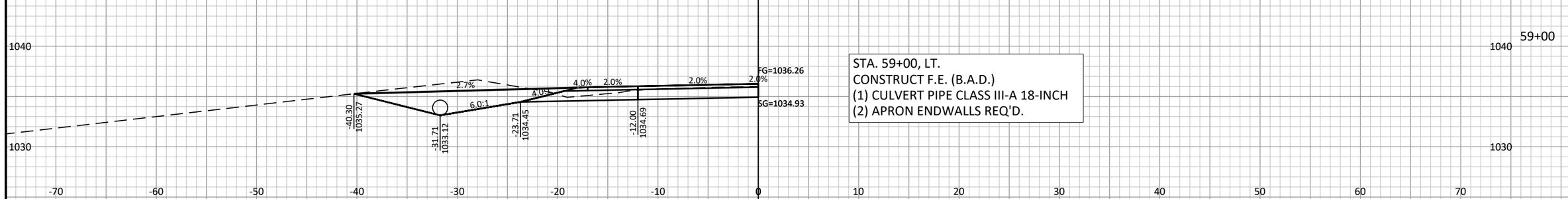
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 5

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

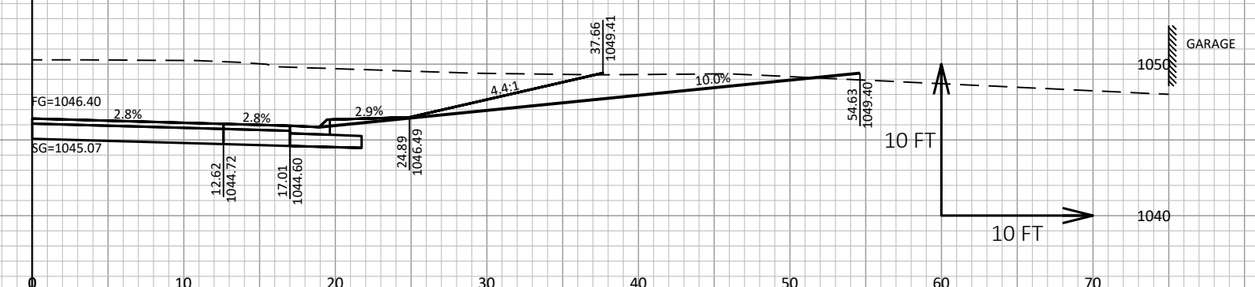
STA. 62+50, RT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 59+00, LT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 56+59, RT.
CONSTRUCT P.E. (B.A.D.)



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET E

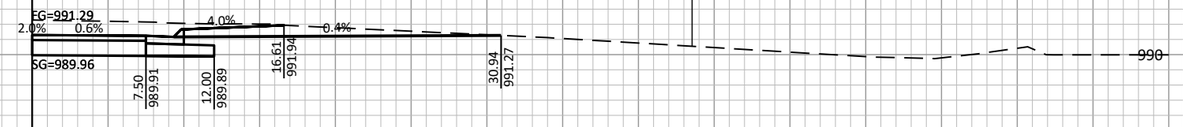
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 6

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME :

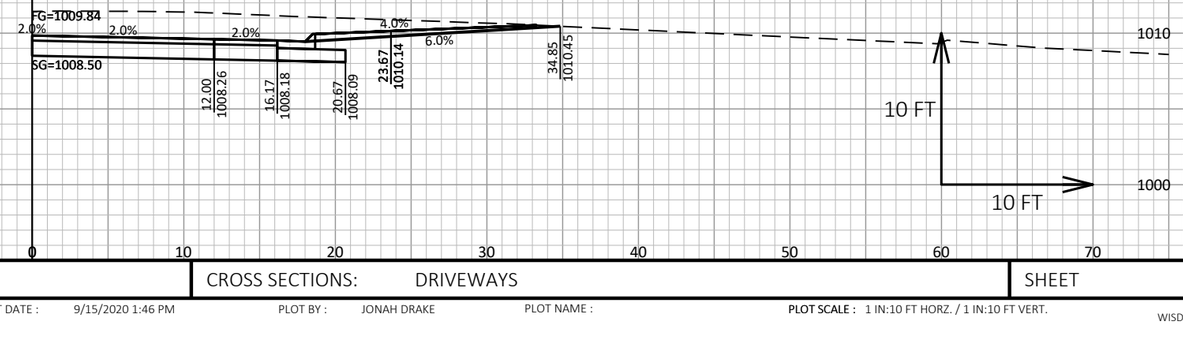
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STA. 71+29, RT.
CONSTRUCT F.E. (B.A.D.)



STA. 62+38, RT.
CONSTRUCT P.E. (ASPHALT)



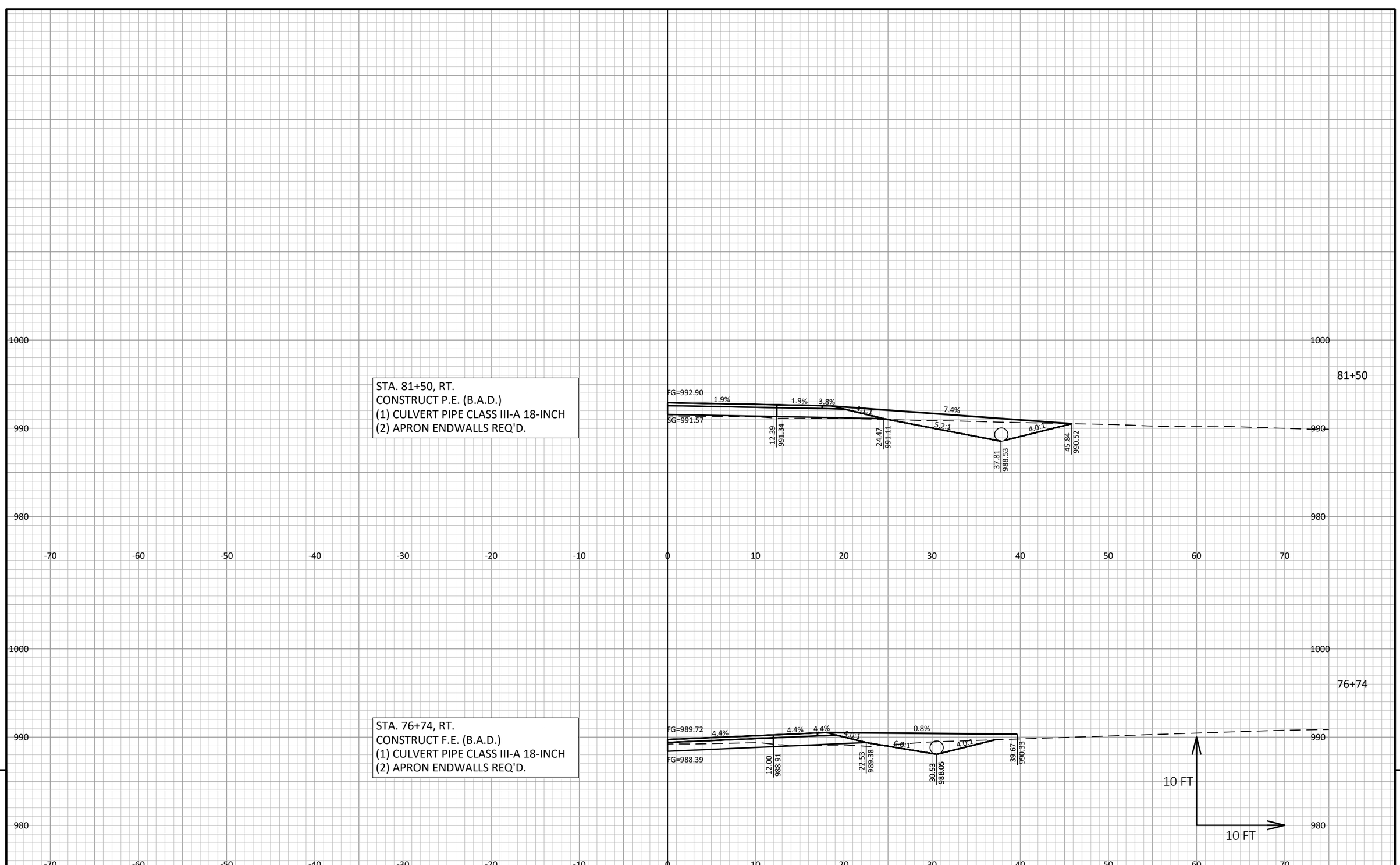
PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 7

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STA. 81+50, RT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 76+74, RT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

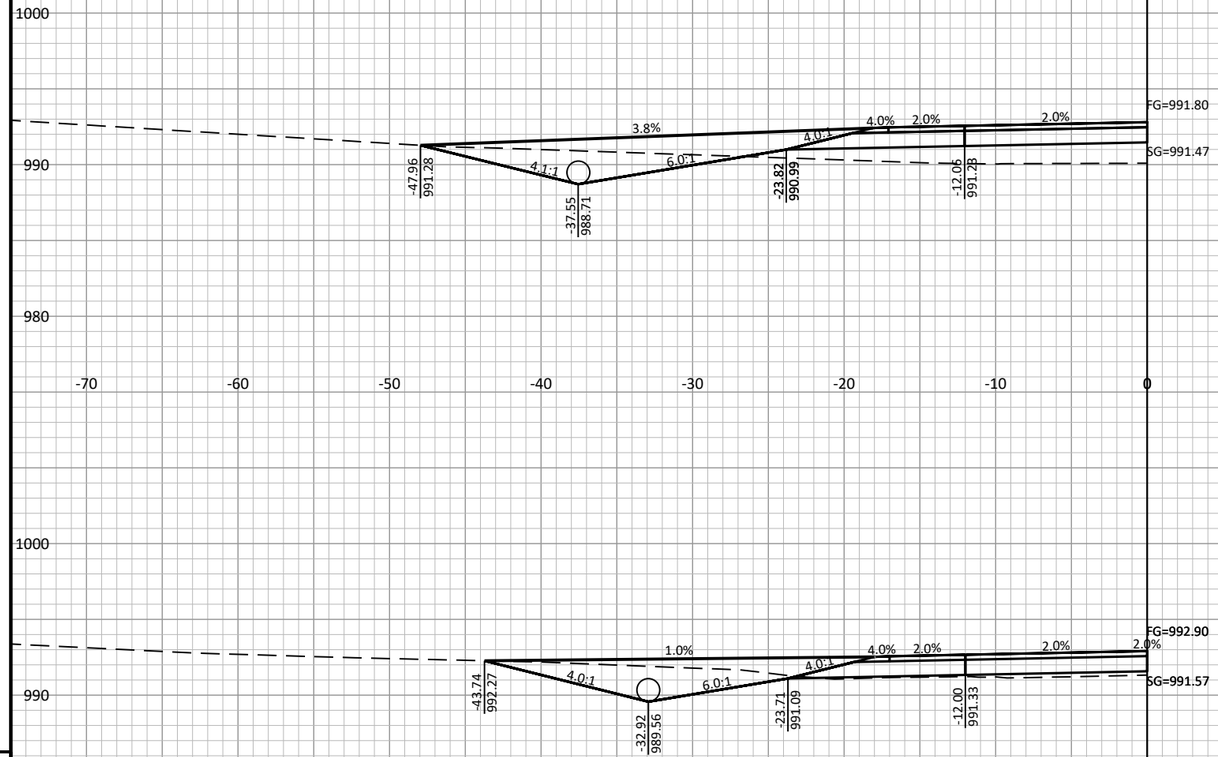
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 8

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



STA. 82+50, LT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

STA. 81+54, LT.
CONSTRUCT P.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.

9

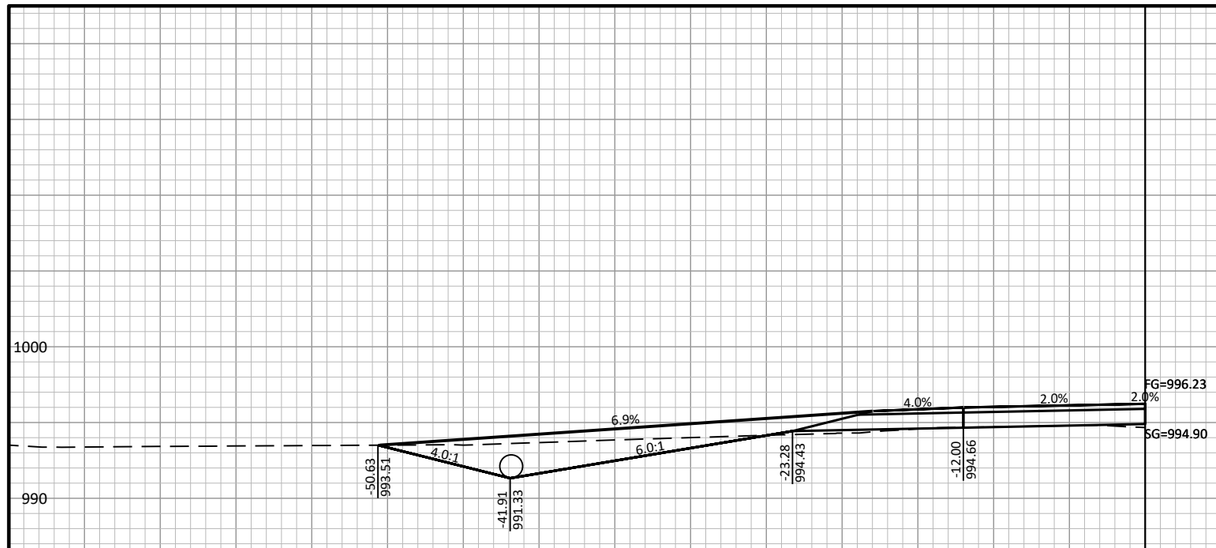
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

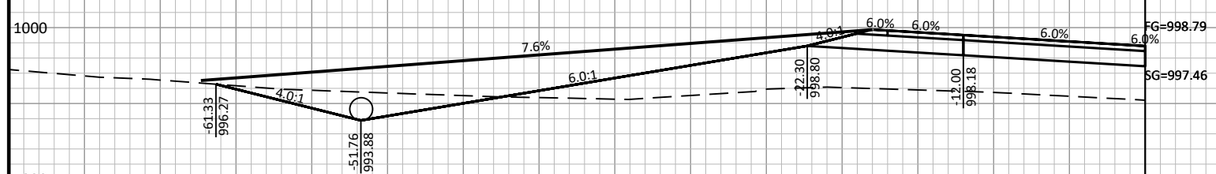
FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 9

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

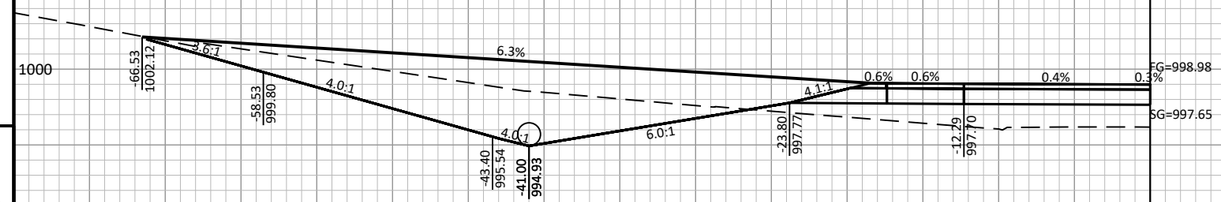
WISDOT/CADDS SHEET 49



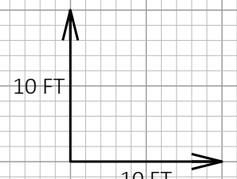
STA. 100+92, LT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 95+00, LT.
CONSTRUCT F.E. (B.A.D.)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



STA. 92+34, LT.
CONSTRUCT P.E. (CONCRETE)
(1) CULVERT PIPE CLASS III-A 18-INCH
(2) APRON ENDWALLS REQ'D.



100+92

95+00

92+34

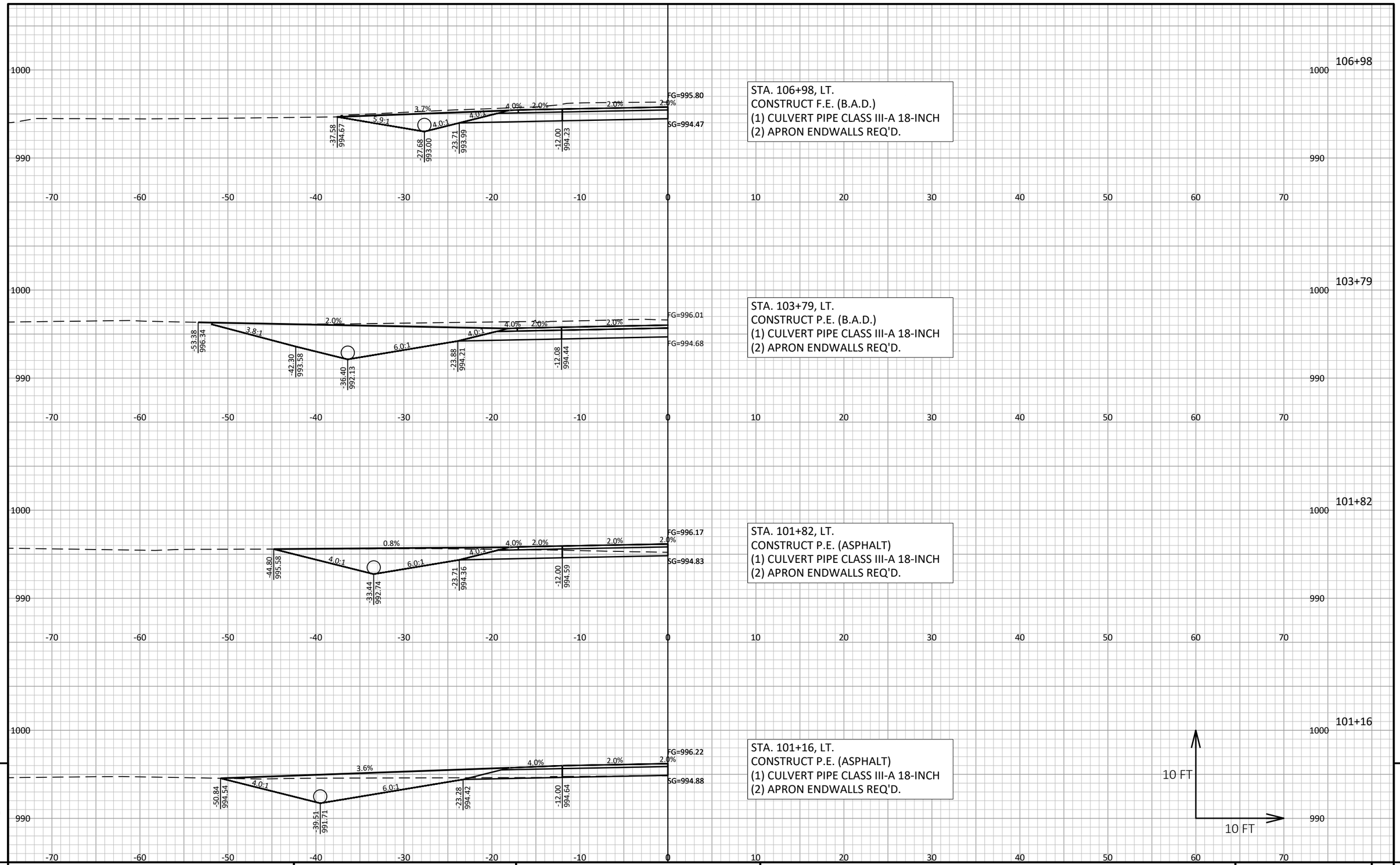
9

9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 10

PLOT DATE : 9/15/2020 1:46 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



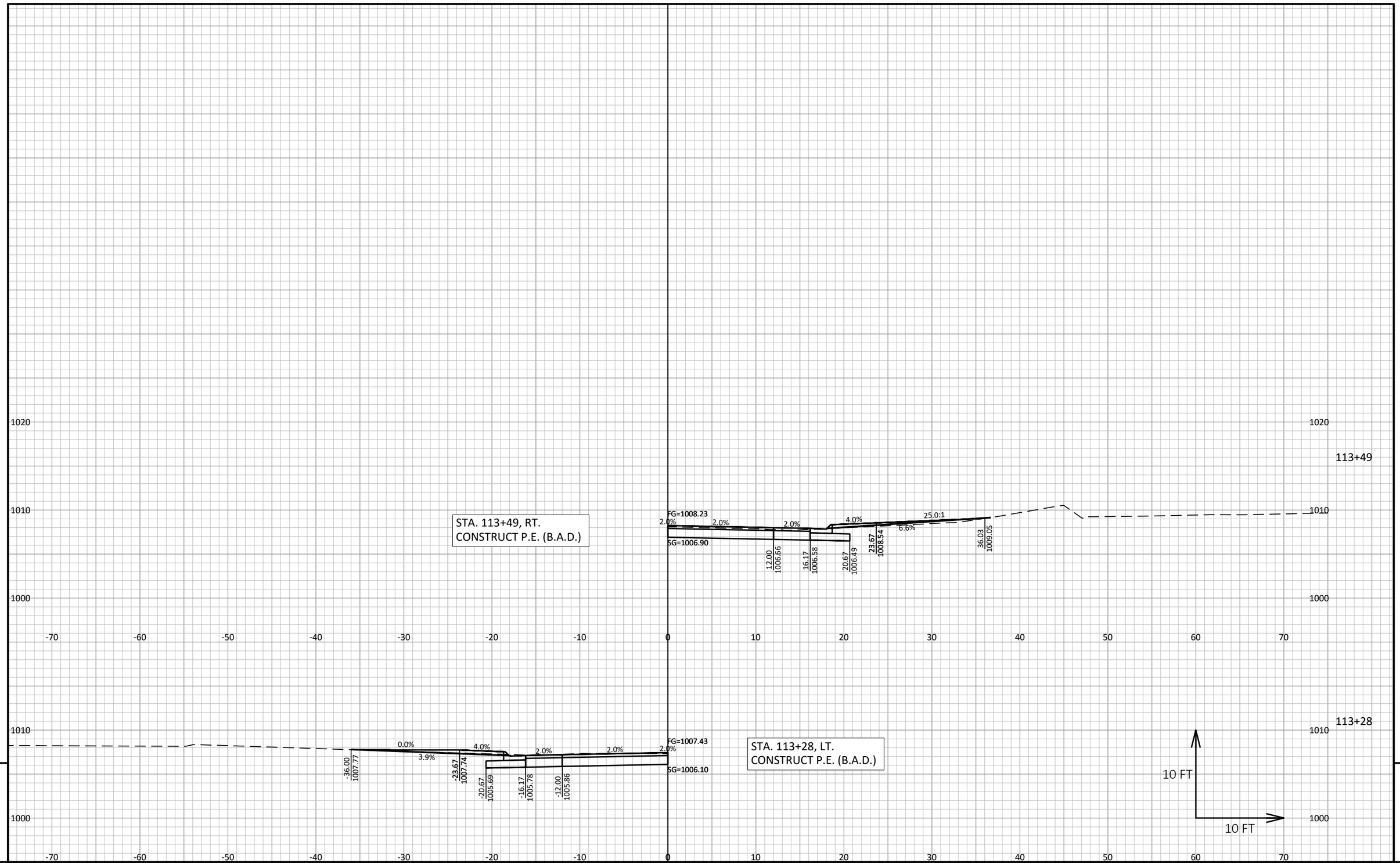
9 9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 11

PLOT DATE : 9/15/2020 1:47 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

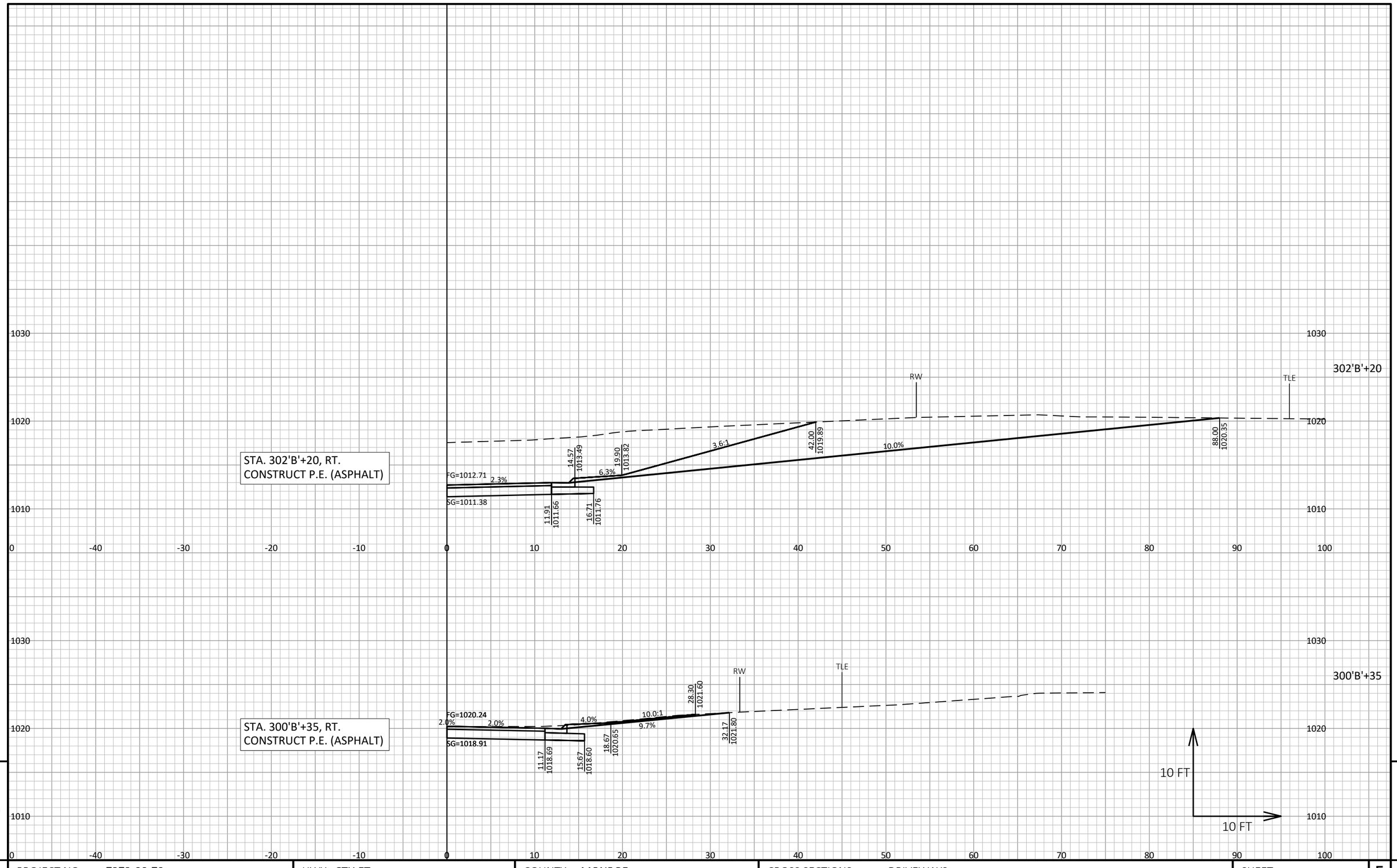
9

PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - DRIVEWAY - 12

PLOT DATE : 9/15/2020 1:47 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 7373-00-70	HWY: CTH ET	COUNTY: MONROE	CROSS SECTIONS: DRIVEWAYS	SHEET	E

FILE NAME : S:\PROJECTS\W11616 CTH ET, MONROE CO (TOMAH-STH 21)\DESIGN\CORRIDORS\CORRIDOR_CTH ET.DWG
LAYOUT NAME - FLAT IRON DWS 1

PLOT DATE : 9/15/2020 1:47 PM PLOT BY : JONAH DRAKE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49