

NO CHANGES

LFA94840271

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9484-02-71		

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 PLAN OF PROPOSED IMPROVEMENT
CTH U - CTH A
 TOWN OF STETTIN
CTH O
 MARATHON COUNTY

AS-BUILT PLAN
 PROJECT SUPERVISOR: Lynn Saeger
 PROJECT ENGINEER: Mike Novey - DAAR, Inc.
 PROJECT LEADER: John Mueller - FAA, Inc.
 PRIME CONTRACTOR: Marathon County Highway Department
 BEGIN CONSTRUCTION: 08/15/2011
 END CONSTRUCTION: 10/21/2011
 FINAL CONTRACT COST: \$241,590.34
 CONTRACT MOD'S: #1 & #2
 SUBCONTRACTORS: None
NO CHANGES

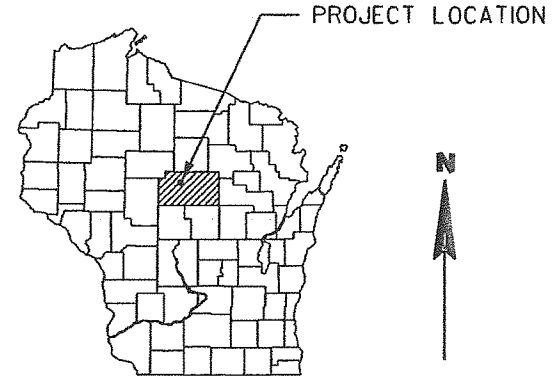
PROJECT ID: 9484-02-71
WITH: N/A

COUNTY: MARATHON

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile (incl. erosion control)
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 =

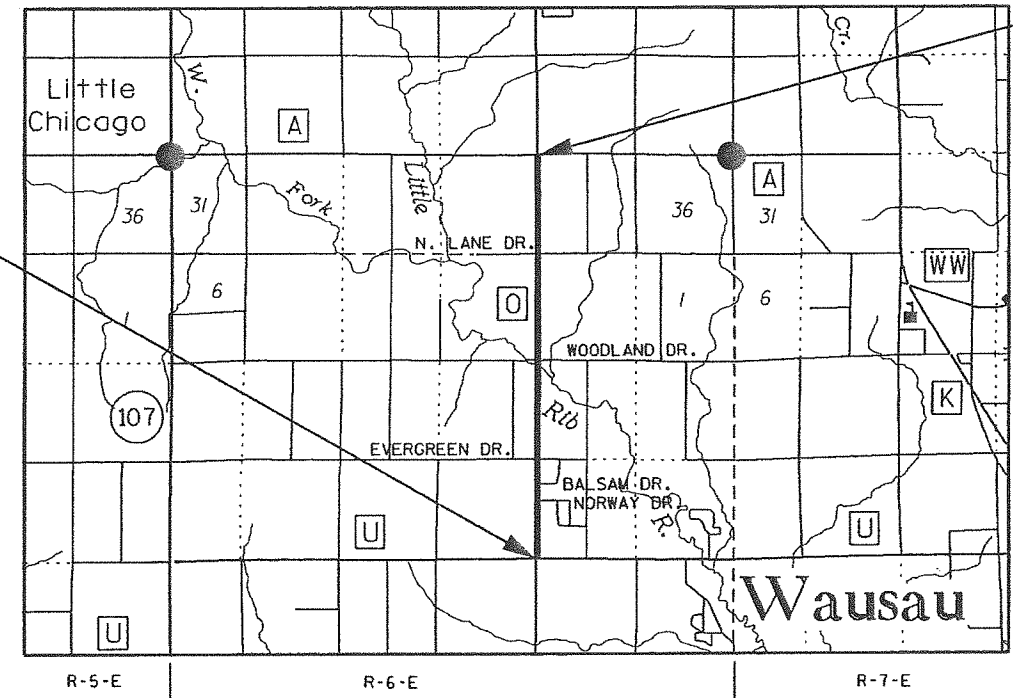


STATE PROJECT NUMBER
9484-02-71

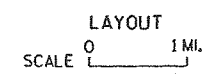
DESIGN DESIGNATION	CTH U - WOODLAND DR.	CTH A
A.A.D.T. 2011	= 800	1250
A.A.D.T. 2031	= 1050	1600
D.H.V.	= 48	48
D.D.	= 60/40	60/40
T.	= 3.6%	3.6%
DESIGN SPEED	= 60 MPH	60 MPH
ESALS	= 73,000	116,800

BEGIN PROJECT
 9484-02-71
 STA. 10+15
 Y = 212,322.15
 X = 245,538.25

END PROJECT
 9484-02-71
 STA. 225+79
 Y = 233,884.51
 X = 245,536.69



CONVENTIONAL SYMBOLS	PROFILE
PLAN	GRADE LINE
CORPORATE LIMITS	ORIGINAL GROUND
PROPERTY LINE	MARSH OR ROCK PROFILE (To be noted as such)
LOT LINE	SPECIAL DITCH
LIMITED HIGHWAY EASEMENT	GRADE ELEVATION
EXISTING RIGHT OF WAY	CULVERT (Profile View)
PROPOSED OR NEW R/W LINE	UTILITIES
SLOPE INTERCEPT	OVERHEAD
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE



TOTAL NET LENGTH OF CENTERLINE = 4.084 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), 'MARATHON' COUNTY.

ACCEPTED FOR MARATHON COUNTY
 DATE: *1/21/11* SIGNATURE: *James M. Suda*
 HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY:
MSA PROFESSIONAL SERVICES
 TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL
 1835 N. Stevens St. Rhineland, WI 54911
 715-362-3244 1-800-844-7854 Fax: 715-362-4116
 © MSA PROFESSIONAL SERVICES

WISCONSIN PROFESSIONAL ENGINEER
 QUIRIN R. KLINK
 E-30535 BARABOO WI
 DATE: *1/21/11* SIGNATURE: *Quirin R. Klink*

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
 PREPARED BY
 Surveyor: MSA Professional Services, Inc.
 Designer: MSA Professional Services, Inc.
 Management Consultant: CEDAR CORPORATION
 C.O. Examiner:

APPROVED FOR THE DEPARTMENT
 DATE: *4-1-11* SIGNATURE: *D. J. ...*
 (Management Consultant Signature)

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
<	ANGLE	GN	GRID NORTH	SECT	SECTION
ASPH	ASPHALTIC	HR	HANDICAP RAMP	SHLDR	SHOULDER
AC	ASPHALT CEMENT	HT	HEIGHT	SW	SIDEWALK
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	S	SOUTH
B & B	BALLED AND BURLAPPED	HYD	HYDRANT	SB	SOUTHBOUND
BM	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INL	INLET	SO	SQUARE
€ OR C/L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SO FT	SQUARE FEET
C-C	CENTER TO CENTER	I	INTERSECTION ANGLE	SY	SQUARE YARD
CONC	CONCRETE	I.E.	INVERT ELEVATION	SSPRC	STORM SEWER
CO	COUNTY	IP	IRON PIPE OR PIN		PIPE REINFORCED CONCRETE
CTH	COUNTY TRUNK HIGHWAY	JCT	JUNCTION	STD	STANDARD
CY	CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	LF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CP	CULVERT PIPE	LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	STORM SEWER
	REINFORCED CONCRETE	LS	LUMP SUM	T	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DIA OR Ø	DIAMETER	O.E.	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
X	EAST GRID COORDINATE	PAVT	PAVEMENT	T	TRUCKS (percent of)
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP.	TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL	UNCLASSIFIED
EL OR ELEV	ELEVATION	PI	POINT OF INTERSECTION	USH	UNITED STATES HIGHWAY
EMB	EMBANKMENT	PT	POINT OF TANGENCY	VAR	VARIABLE
EW	ENDWALL	PCC	PORTLAND CEMENT CONCRETE	VERT	VERTICAL
ESALS	EQUIVALENT SINGLE	LB	POUND	VC	VERTICAL CURVE
	AXLE LOADS	PE	PRIVATE ENTRANCE	VOL	VOLUME
EXC	EXCAVATION	R OR RAD	RADIUS	WM	WATER MAIN
EBS	EXCAVATION BELOW	RR	RAILROAD	WV	WATER VALVE
	SUBGRADE	R	RANGE	W	WEST
EXIST	EXISTING	Ø OR R/L	REFERENCE LINE	WB	WESTBOUND
EXP	EXPANSION	REQ'D.	REQUIRED	YD	YARD
F-F	FACE TO FACE	RT	RIGHT		
FERT	FERTILIZER	R/W	RIGHT-OF-WAY		
FE	FIELD ENTRANCE	RD	ROAD		

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC.
 ATTN: CHAD SCHROEDER
 1835 N. STEVENS STREET
 RHINELANDER, WI 54501-2163
 PHONE: 715-362-3244
 cschroeder@msa-ps.com

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
 ATTN: TONY FISCHER
 473 GRIFFITH DRIVE
 WISCONSIN RAPIDS, WI 54494
 PHONE: 715-421-7867
 anthony.fischer@dnr.state.wi.us

UTILITIES

BURIED ELECTRIC:
 OVERHEAD ELECTRIC:
 WISCONSIN PUBLIC SERVICE
 700 NORTH ADAMS STREET
 GREEN BAY, WI 54307-9001
 ATTN: LORIBURY
 LOCAL CONTACT: CLAY VIRCKS
 PHONE: 715-848-7317
 EMAIL: CHVIRCKS@wisconsinpublicservice.com

BURIED TELEPHONE:
 FRONTIER COMMUNICATIONS
 ATTN: DEB FRIEDRICHS
 118 DIVISION STREET
 PLYMOUTH, WI 53073

BURIED FIBER OPTIC:
 FRONTIER COMMUNICATIONS
 ATTN: DEB FRIEDRICHS
 118 DIVISION STREET
 PLYMOUTH, WI 53073

* - NOT A MEMBER
 OF DIGGERS HOTLINE.



Toll Free (800) 242-8511

Hearing Impaired TDD (800) 542-2289
 www.DiggersHotline.com

BORING LOG

STATION	OFFSET	BORING NO.	ASPHALT THICKNESS
18+01	CL	0-1	2.5"
55+85	CL	0-2	3"
72+95	CL	0-3	3.25"
108+04	CL	0-4	3"
123+15	CL	0-5	2.25"
165+99	CL	0-6	3.75"
179+91	CL	0-7	2.25"
190+27	7' RT.	0-8	3"
215+03	6' LT.	0-9	2.25"

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 15 LBS. PER 1000 SQUARE FEET.

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

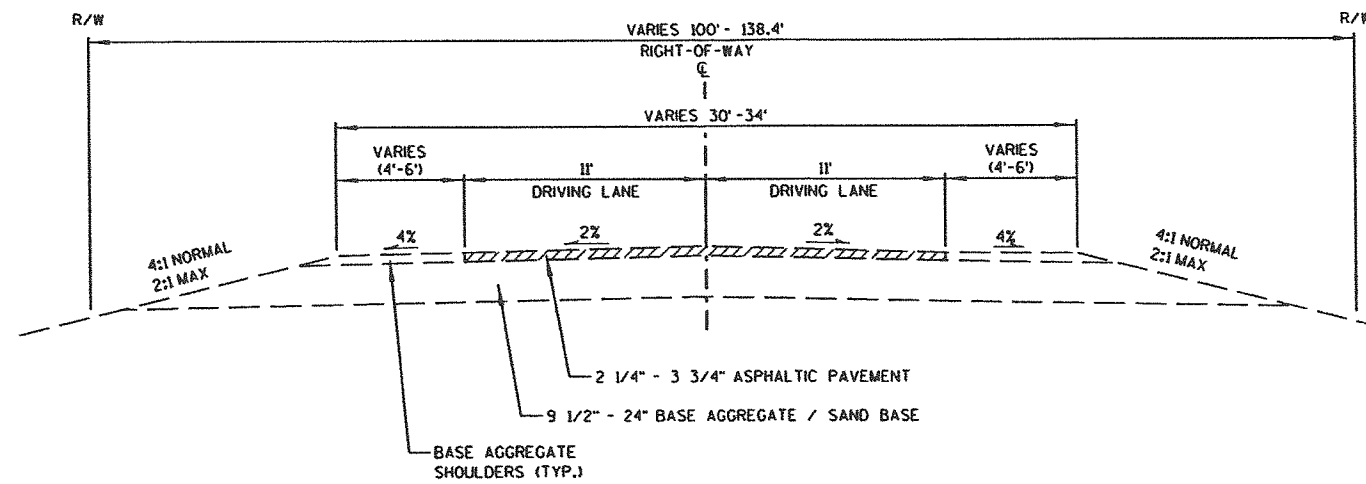
NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE 4" HMA PAVEMENT TYPE E-1 SHALL CONSIST OF A 1 3/4" UPPER LAYER AND A 2 1/4" LOWER LAYER.

WHEN THE QUANTITY OF THE ITEM OF BASE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

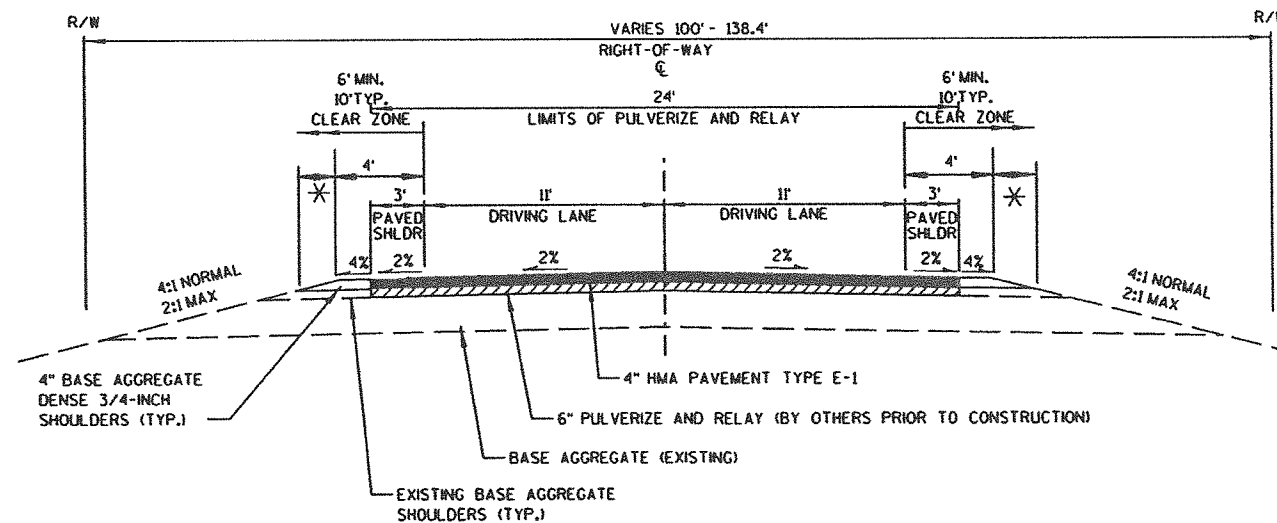
RUNOFF COEFFICIENT TABLE				
	HYDROLOGIC SOIL TABLE			
	A	B	C	D
	SLOPE RANGE %	SLOPE RANGE %	SLOPE RANGE %	SLOPE RANGE %
LAND USE:	6 & OVER	6 & OVER	6 & OVER	6 & OVER
SIDE SLOPE-TURF	.25	.27	.28	.30
	.32	.34	.36	.38
PAVEMENT:				
ASPHALT	.70 - .95			
CONCRETE	.80 - .95			
GRAVEL ROADS, SHOULDERS	.40 - .60			

THE RUNOFF COEFFICIENTS OF SURFACE DRAINAGE AT THE PROJECT SITES WILL NOT BE CHANGED FROM BEFORE TO AFTER CONSTRUCTION. THE TOTAL AREA OF THE PROJECT IS 57.30 ACRES. THE TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS 17.33 ACRES.



TYPICAL EXISTING SECTION

CTH 0
STA. 10+15 - STA. 225+79

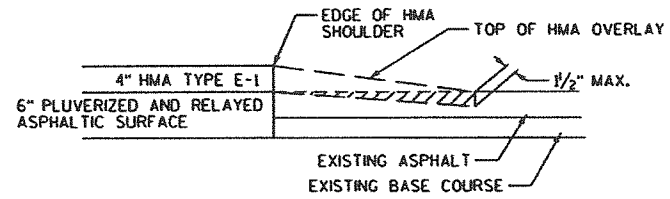


TYPICAL FINISHED SECTION

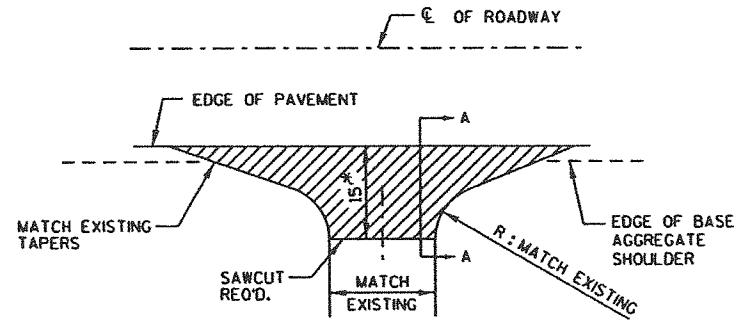
CTH 0
STA. 10+15 - STA. 225+79

* - LIMITS OF FERTILIZER TYPE B, SEEDING MIXTURE NO. 20 AND SEEDING TEMPORARY, DISTANCE WILL VARY TO MATCH EXISTING SHOULDER BREAK POINT, UTILIZE 4:1 SLOPE, MINIMUM TO EXISTING SHOULDER BREAK POINT.

2



SECTION A-A

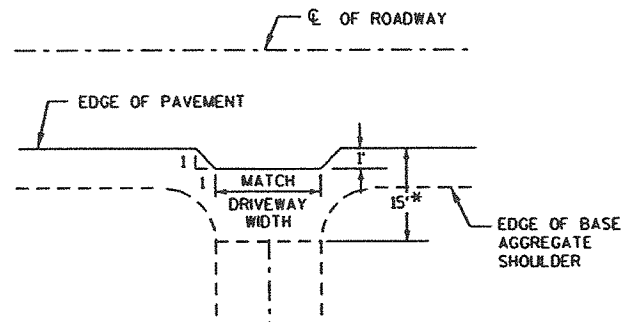


PLAN VIEW

REMOVING ASPHALTIC SURFACE MILLING BUTT JOINT

* - ADJUST AS REQUIRED IN FIELD TO MATCH EXISTING CONDITIONS

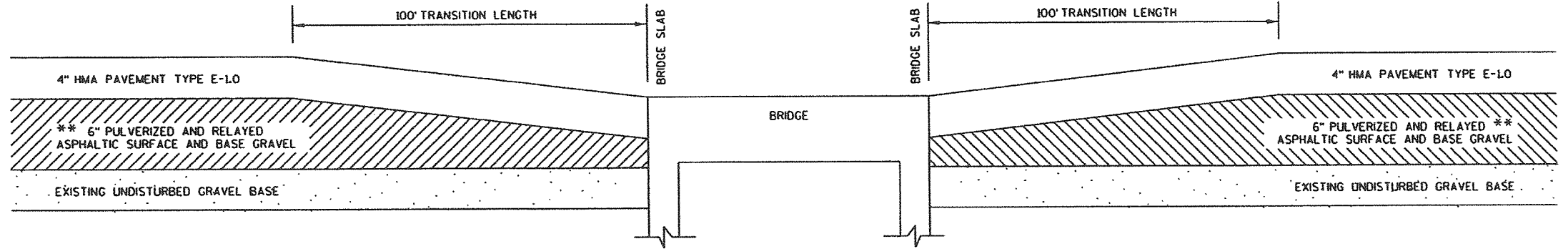
SIDEROAD/PAVED DRIVEWAY MATCH DETAILS



PLAN VIEW

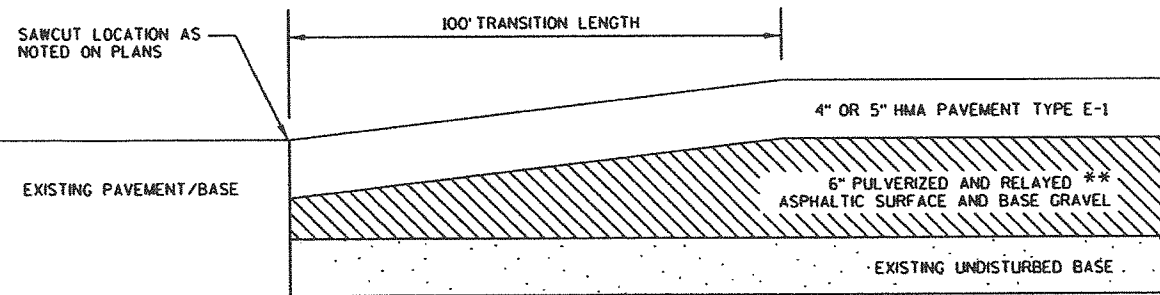
* - LIMITS OF BASE AGGREGATE DENSE PLACEMENT FOR DRIVEWAY MATCH. ADJUST AS REQUIRED IN FIELD TO MATCH EXISTING CONDITIONS

GRAVEL/UNPAVED DRIVEWAY PAVING DETAILS



AT B-37-151

** - BY OTHERS PRIOR TO CONSTRUCTION



AT CTH U

** - BY OTHERS PRIOR TO CONSTRUCTION

** - BY OTHERS PRIOR TO CONSTRUCTION

TRANSITION DETAILS - ELEVATION VIEWS

ADDITIONAL REMOVAL FOR TRANSITION OR OVERBURDEN INCLUDED IN ITEM "PREPARE FOUNDATION FOR ASPHALTIC PAVING"

204.0115 REMOVING ASPHALTIC SURFACE MILLING BUTT JOINTS

LOCATION	BUTT JOINTS SY
INTERSECTIONS	1250
DRIVEWAYS	250
PROJECT TOTALS:	1500

624.0100 WATER

LOCATION	MGAL
UNDISTRIBUTED	50
PROJECT TOTAL:	50

NOTE: FOR DUST CONTROL

305.0110 BASE AGGREGATE DENSE 3/4-INCH

STATION	STATION	LOCATION	TON
10+15	225+79	SHOULDERS	3600
	DRIVEWAYS		225
PROJECT TOTALS:			3825

628.1504 SILT FENCE
628.1520 SILT FENCE MAINTENANCE

LOCATION	FENCE LF	MAINT. LF
UNDISTRIBUTED	500	500
PROJECT TOTALS:	500	500

211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING 9484-02-71
455.0605 TACK COAT
SPV.0195.01 HMA PAVEMENT TYPE E-1 DELIVERED AND INSTALLED
SPV.0195.02 HMA PAVEMENT TYPE E-1 DELIVERED AND INSTALLED DRIVEWAYS

STATION	STATION	PREPARE FOUNDATION LS	TACK GAL	HMA TON	HMA DRIVEWAYS TON
10+15	225+79	1	1670	15340	--
	INTERSECTIONS	--	30	200	--
	DRIVEWAYS	--	--	--	50
PROJECT TOTALS:					50

643.0300 TRAFFIC CONTROL DRUMS
643.0420 TRAFFIC CONTROL BARRICADES TYPE III
643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A
643.0900 TRAFFIC CONTROL SIGNS

STATION	STATION	DRUMS DAYS	BAR. TYPE III DAYS	LIGHTS DAYS	SIGNS DAYS
10+15	225+79	--	400	480	720
	SIDEROAD CLOSURES (2)	--	1600	1600	2400
	UNDISTRIBUTED	200	--	--	--
PROJECT TOTALS:					3120

(1) - UTILIZE UNDISTRIBUTED DRUMS AT INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

(2) - UTILIZE DETAIL 4 ON SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

465.0315 ASPHALTIC FLUMES

LOCATION	SY
UNDISTRIBUTED	50
PROJECT TOTAL:	50

646.0106 PAVEMENT MARKING EPOXY 4-INCH
647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH

STATION	STATION	LOCATION	4-INCH LF	STOP LINE LF
10+15	225+79	YELLOW CL	17300	--
10+15	225+79	WHITE EDGE LINE	41950	--
10+15	225+79	CTH U AND CTH A	--	60
PROJECT TOTALS:			59250	60

629.0210 FERTILIZER TYPE B
630.0120 SEEDING MIXTURE NO. 20
630.0200 SEEDING TEMPORARY

STATION	STATION	FERTILIZER CWT.	SEEDING *20 LB.	SEEDING TEMPORARY LB.
10+15	225+79	15	640	320
	UNDISTRIBUTED	1	20	10
PROJECT TOTALS:				
		16	660	330

650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

PROJECT	LS
9484-02-71	1
PROJECT TOTAL:	1

NOTE: ALL ITEMS LISTED ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 9484-02-71

HWY: CTH 0

COUNTY: MARATHON

MISCELLANEOUS QUANTITIES

SHEET

E

FILE NAME : \$\$....designfile....\$\$

PLOT DATE : \$\$...plottingdate...\$\$ PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADD SHEET 43

648.0100 LOCATING NO PASSING ZONES
 650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE

STATION	STATION	NO PASSING ZONES MI	RESURFACE REFERENCE L.F. (1)
10+15	225+79	4.0	21305
PROJECT TOTALS:		4.0	21305

NOTE: QUANTITY OMIITS EXCEPTION TO NET CENTERLINE LENGTHS

690.0150 SAWING ASPHALT

LOCATION	L.F.
CTH U	130
INTERSECTIONS	150
DRIVEWAYS	90
PROJECT TOTALS:	370

NOTE: ALL ITEMS LISTED ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 9484-02-71

HWY: CTH 0

COUNTY: MARATHON

MISCELLANEOUS QUANTITIES

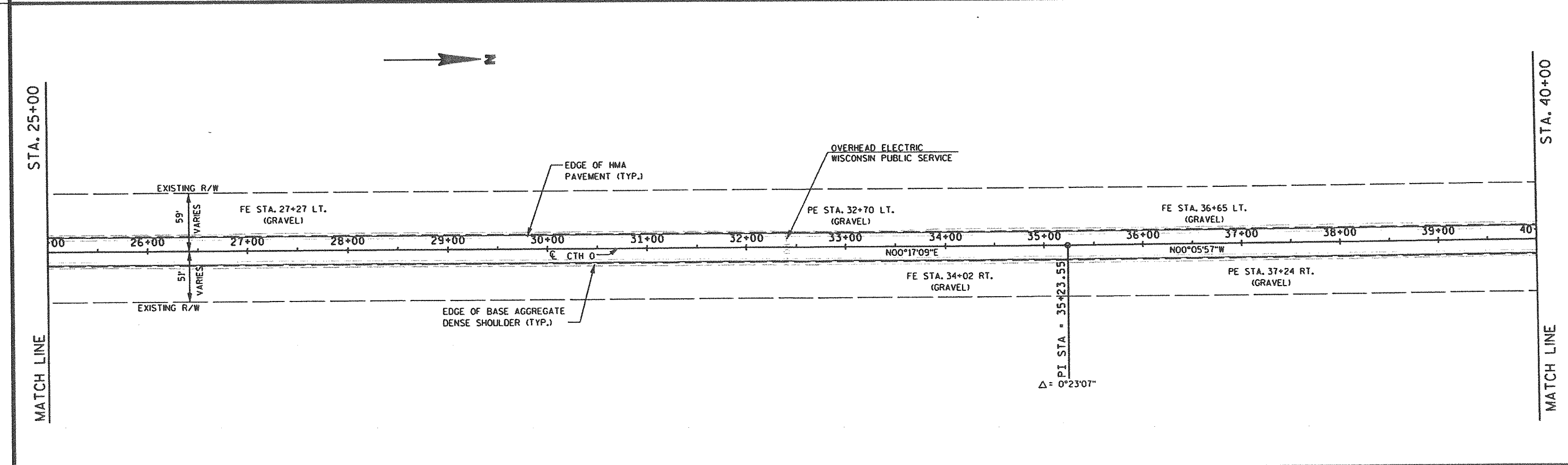
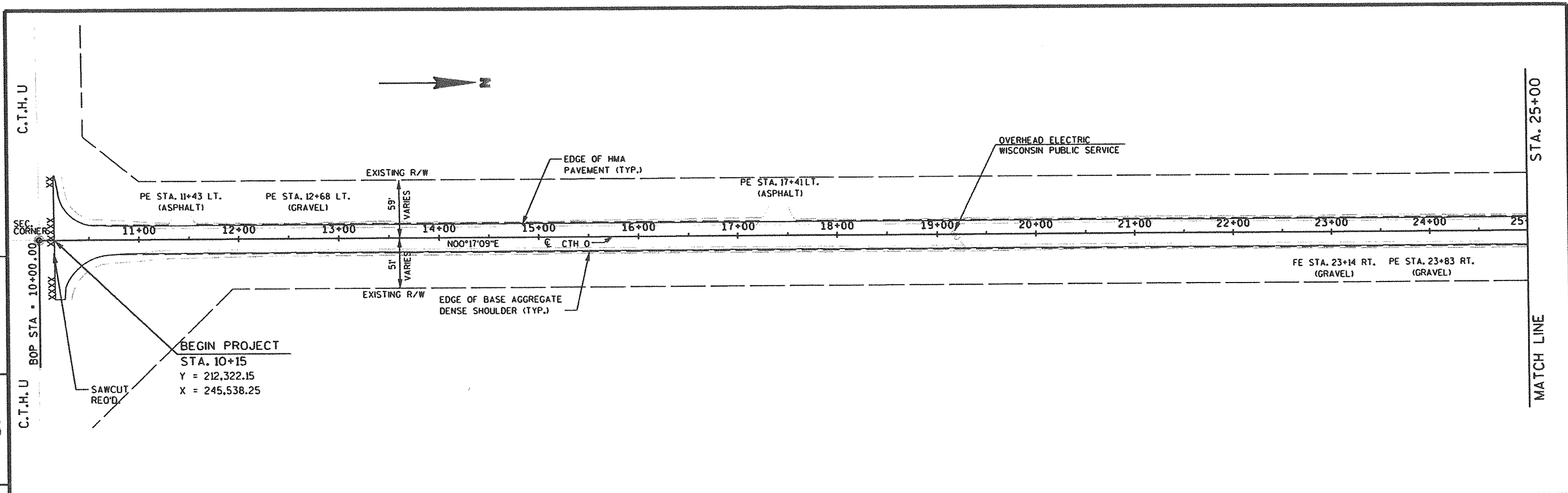
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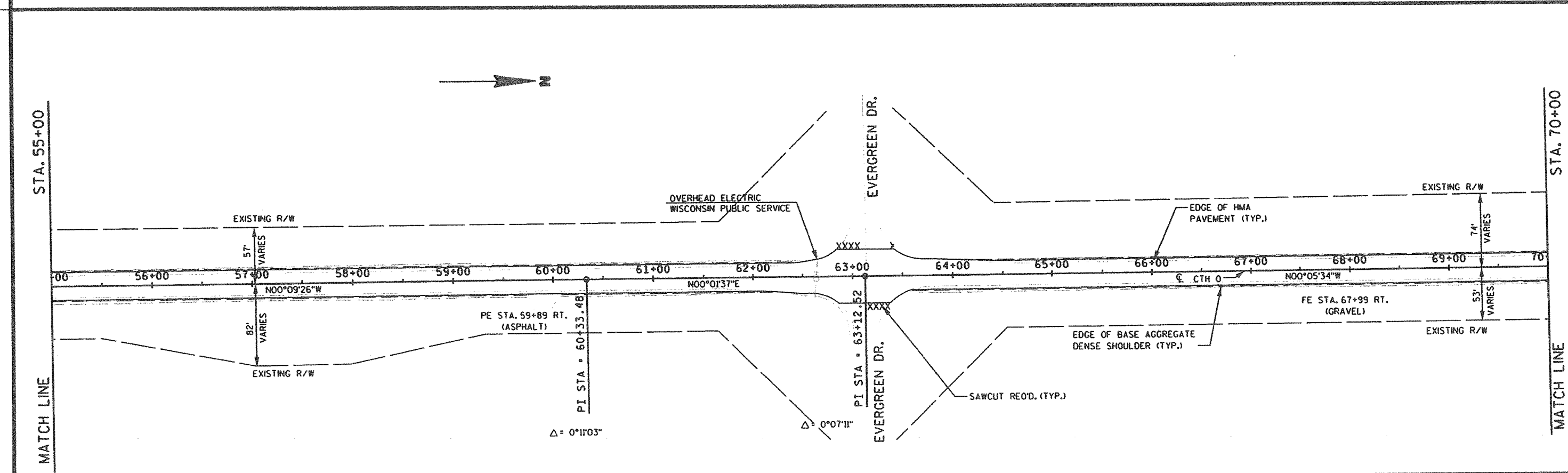
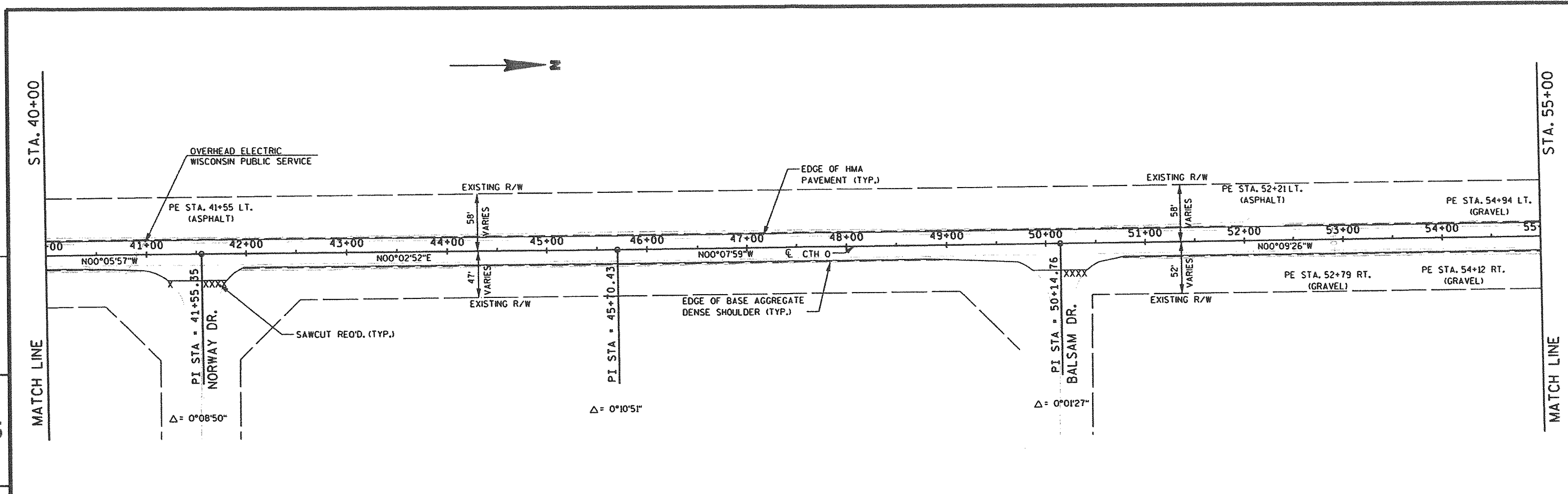
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PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADD SHEET 43



PROJECT NO: 9484-02-71	HWY: CTH 0	COUNTY: MARATHON	PLAN SHEET - CTH 0
SHEET			E

FILE NAME : \$\$....designfile....\$\$ PLOT DATE : \$\$...plottingdate...\$\$ PLOT BY : \$\$...plotuser...\$\$ PLOT NAME : PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADD SHEET 40



PROJECT NO: 9484-02-71

HWY: CTH 0

COUNTY: MARATHON

PLAN SHEET - CTH 0

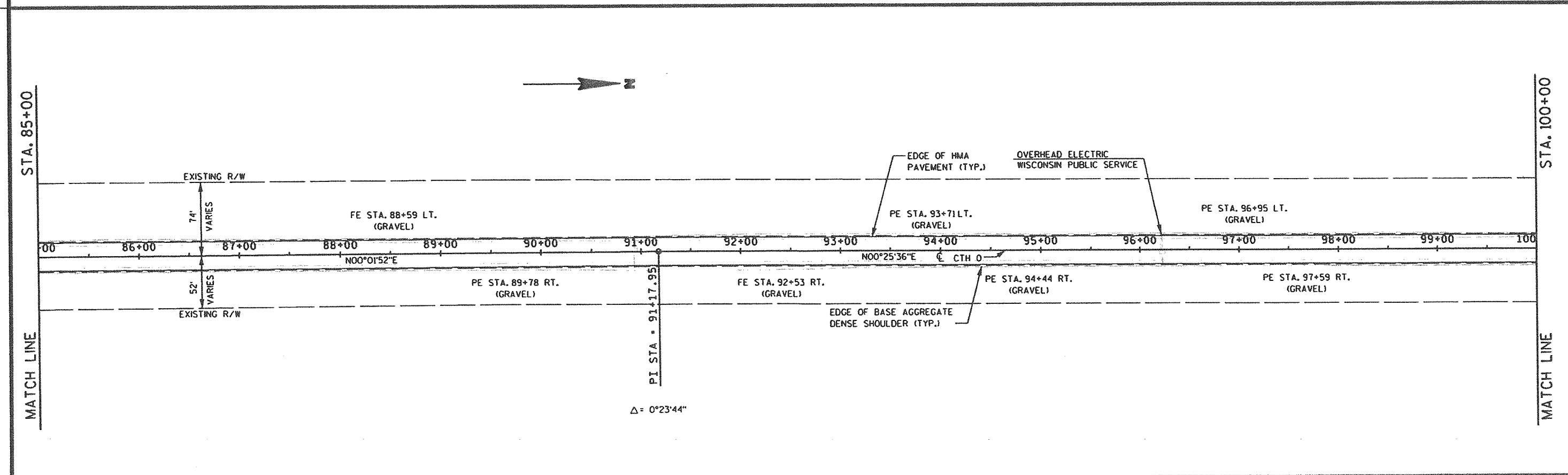
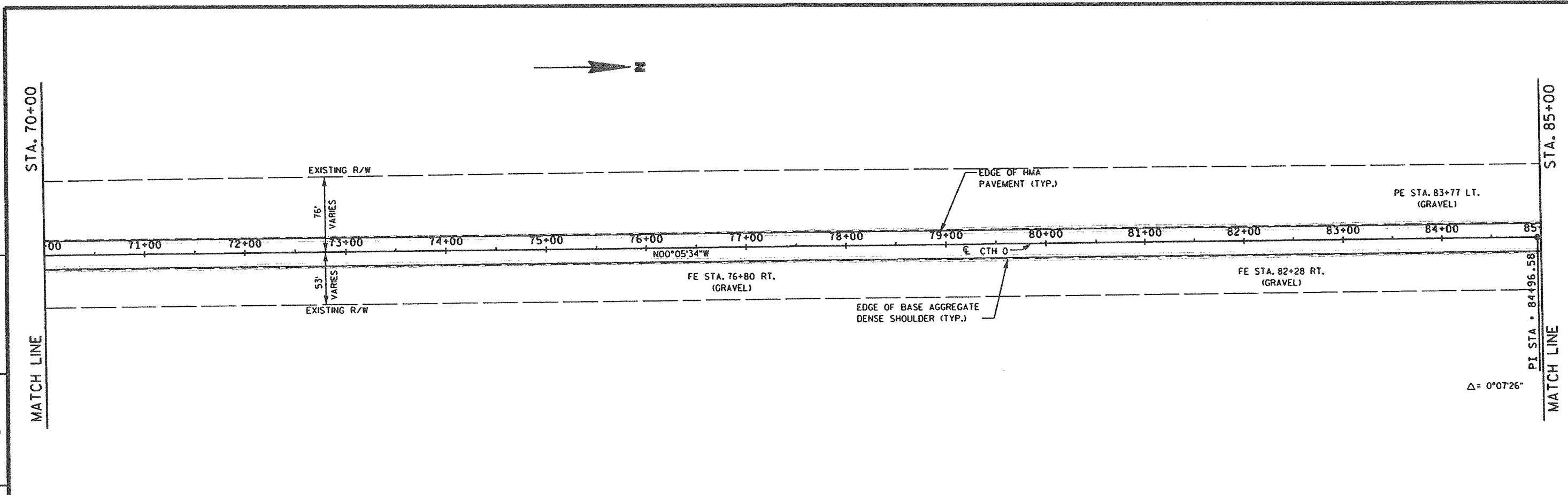
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PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADD SHEET 40



PROJECT NO: 9484-02-71

HWY: CTH 0

COUNTY: MARATHON

PLAN SHEET - CTH 0

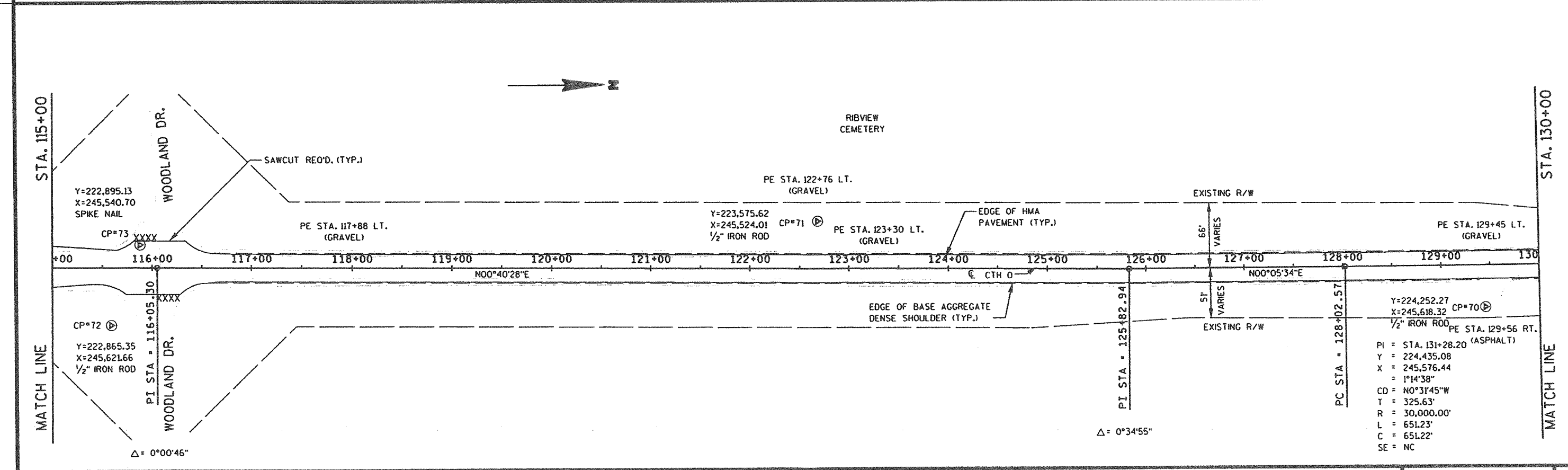
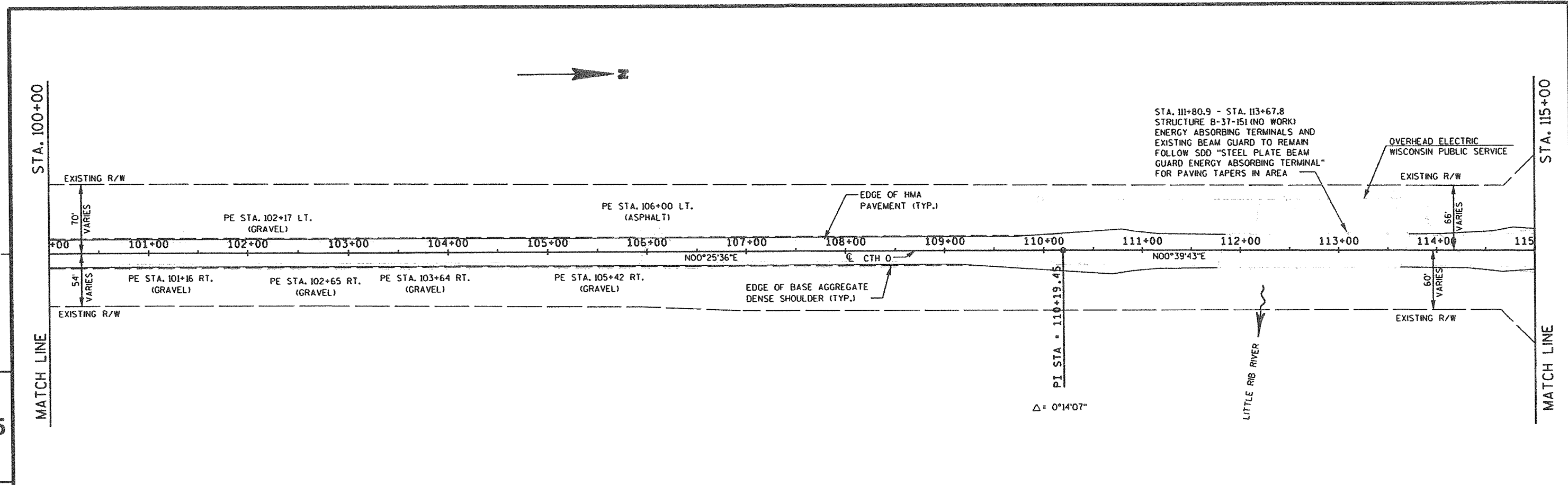
SHEET

E

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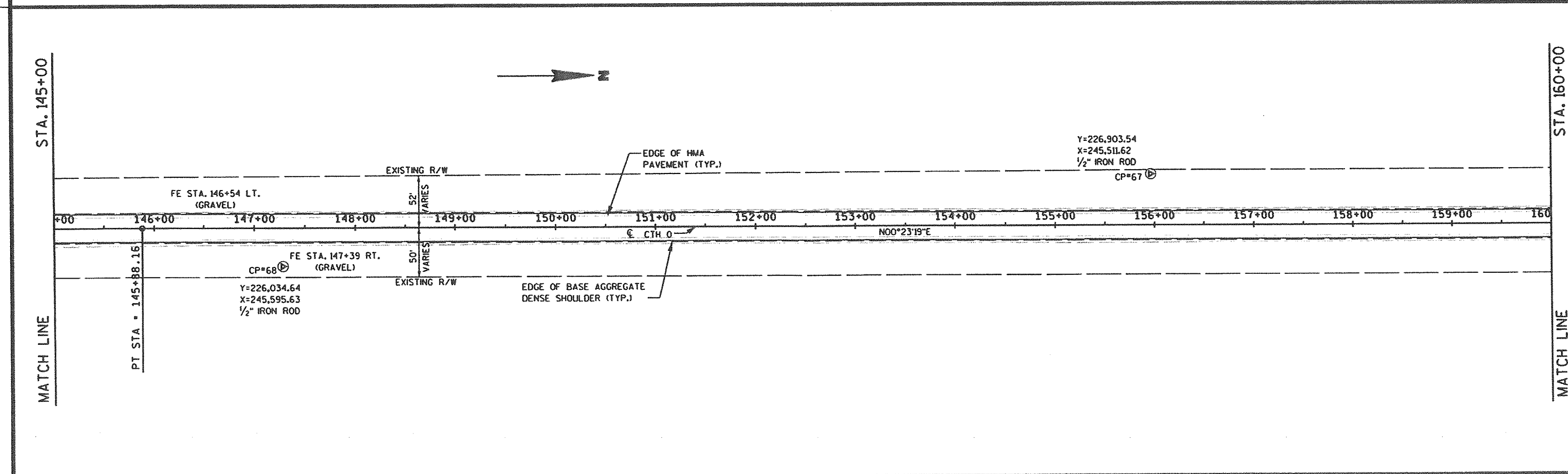
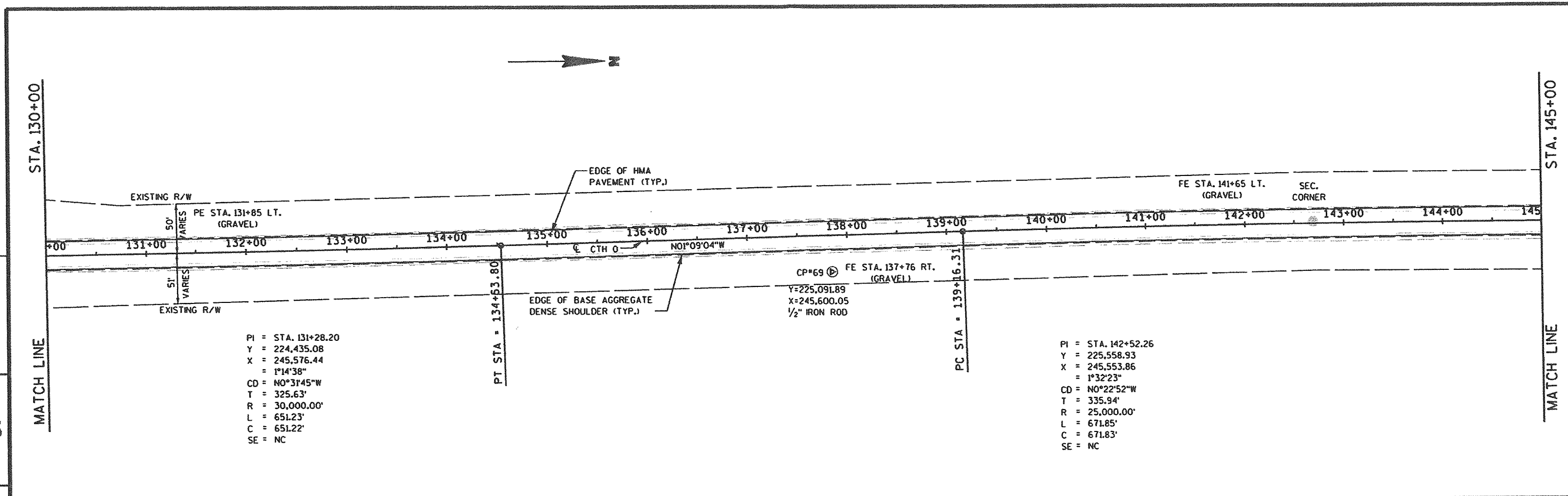
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PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 40



PROJECT NO: 9484-02-71 HWY: CTH 0 COUNTY: MARATHON PLAN SHEET - CTH 0 SHEET E

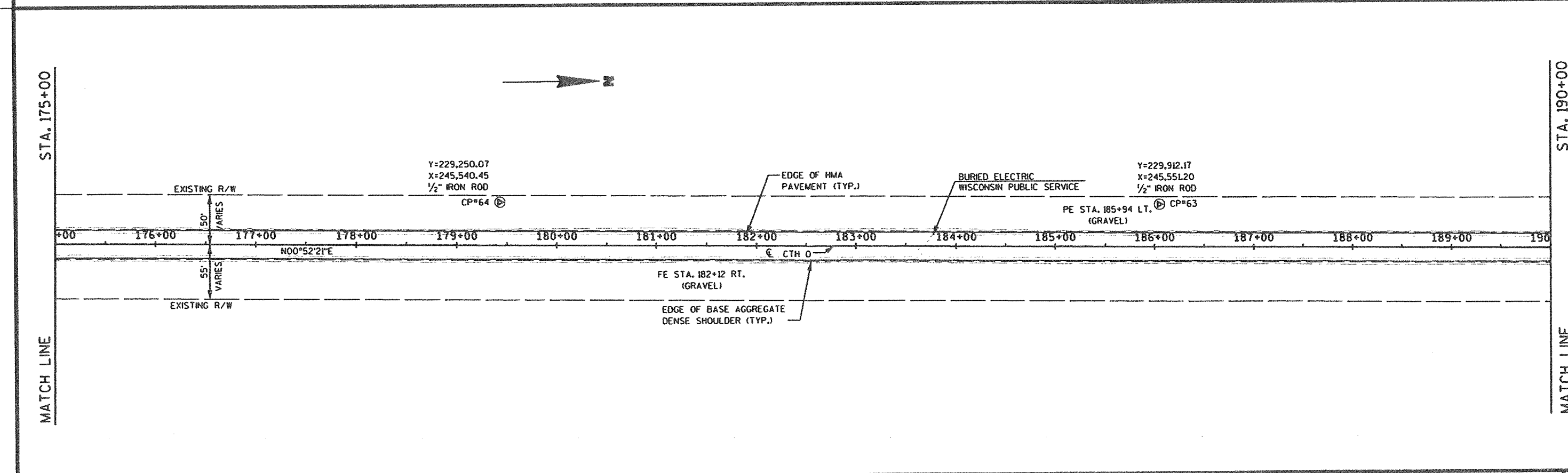
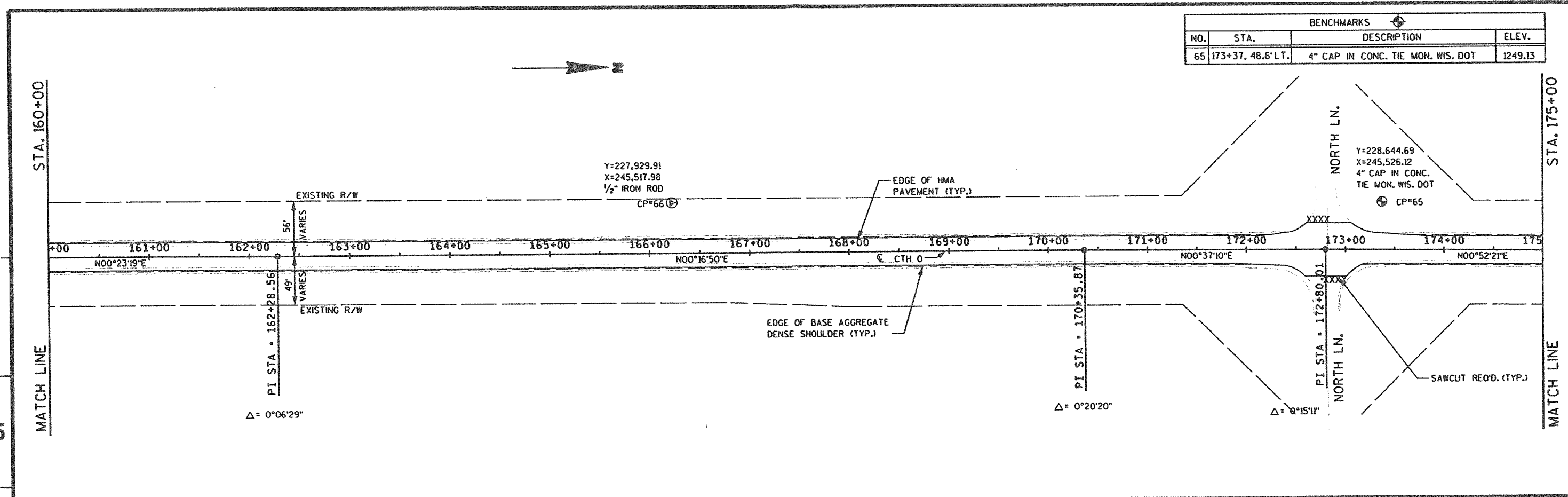
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PROJECT NO: 9484-02-71	HWY: CTH 0	COUNTY: MARATHON	PLAN SHEET - CTH 0	SHEET	E
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plan05.dgn 12/3/2010 11:13:11 AM philk

BENCHMARKS			
NO.	STA.	DESCRIPTION	ELEV.
65	173+37, 48.6' LT.	4" CAP IN CONC. TIE MON. WIS. DOT	1249.13



PROJECT NO: 9484-02-71	HWY: CTH 0	COUNTY: MARATHON	PLAN SHEET - CTH 0	SHEET	E
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STA. 190+00

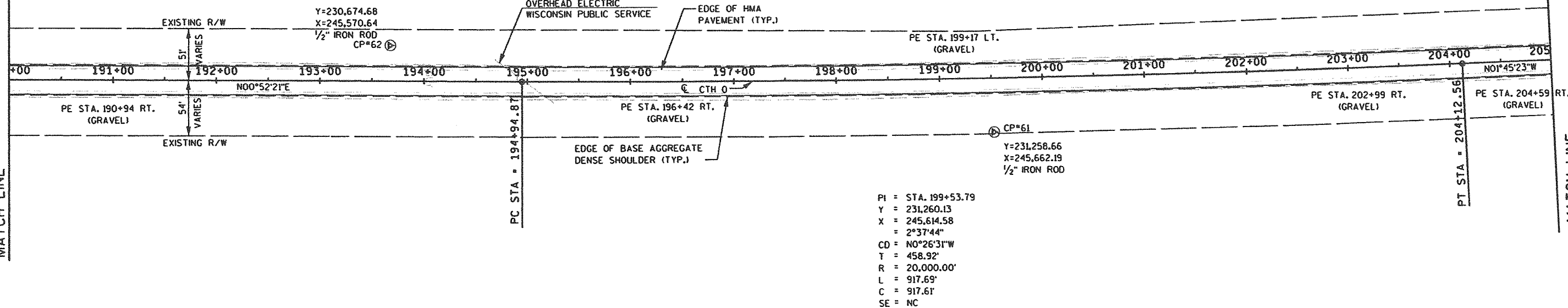
STA. 205+00

MATCH LINE

MATCH LINE

5

5



STA. 205+00

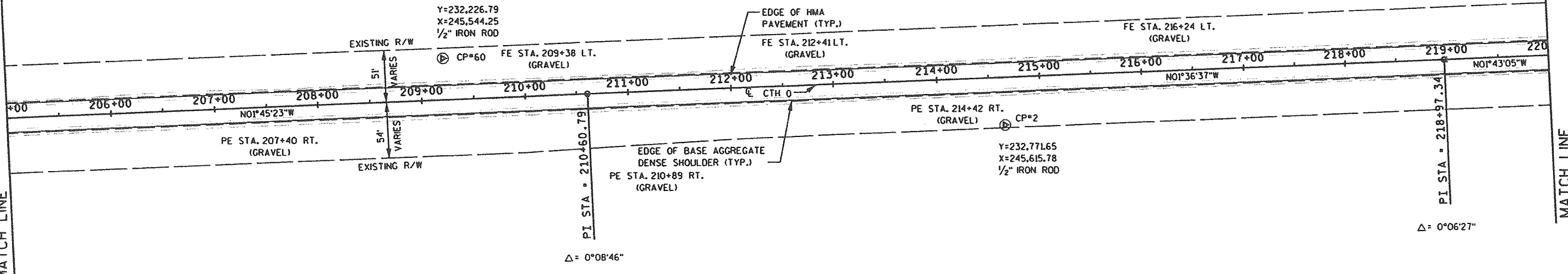
STA. 220+00

MATCH LINE

MATCH LINE

5

5



PROJECT NO: 9484-02-71

HWY: CTH 0

COUNTY: MARATHON

PLAN SHEET - CTH 0

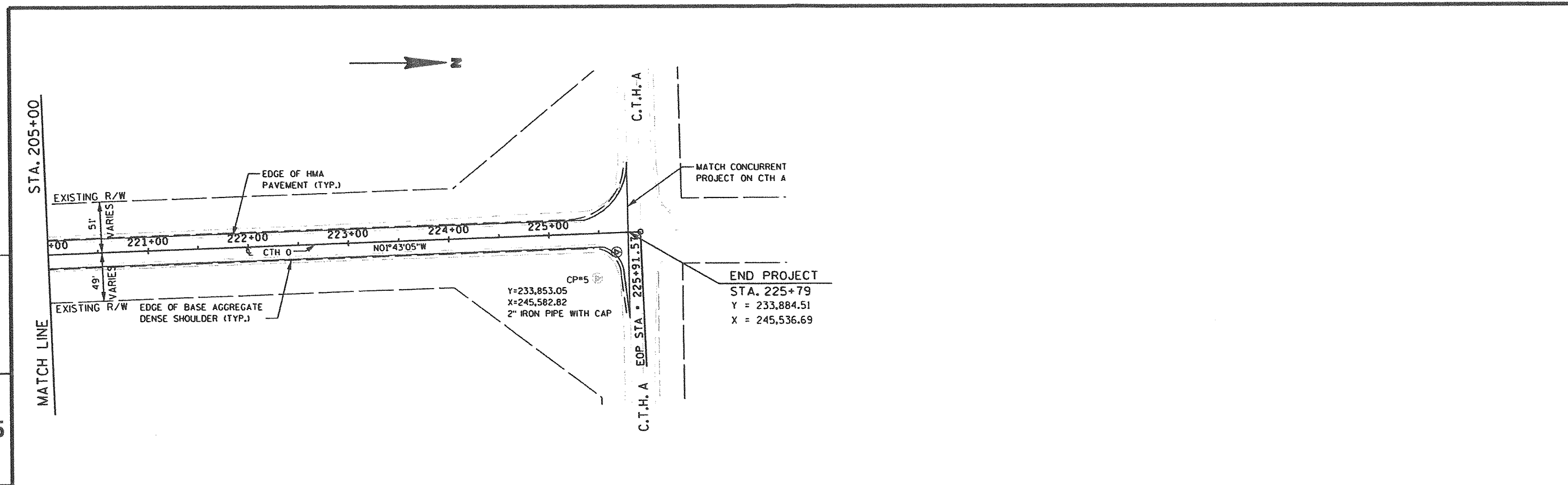
SHEET

E

FILE NAME : \$\$.....designfile.....\$\$

PLOT DATE : \$\$...plottingdate...\$\$ PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADD SHEET 40



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PROJECT NO: 9484-02-71	HWY: CTH 0	COUNTY: MARATHON	PLAN SHEET - CTH 0	SHEET	E
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FILE NAME : \$\$...designfile...\$\$ PLOT DATE : \$\$...plottingdate...\$\$ PLOT BY : \$\$...plotuser...\$\$ PLOT NAME : PLOT SCALE : \$\$...plotscale...\$\$ WISDOT/CADD SHEET 40