WIS JUN 08

AS BUILT PLAN

PROJECT ID: 1166-09-77

WITH: 1166-09-79, 1166-11-75, 1166-11-76, 1166-11-79, 6999-09-73

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1166-09-77	STP 2008353	1
1166-09-79		
6999-09-73	STP 2008363	1

ORDER OF SHEETS

SUPERVISOR: Robin Stafford
PROJECT MANAGER: Dan Holloway
CONTRACTOR: Zenith Tech., Inc
DATE STARTED: 7/31/2008
DATE COMPLETED: 9/16/2010

Erosion
lans)

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 = 394

USH 51/STH 29 CORRIDOR-WAUSAU STEWART AVENUE

STEWART AVE., 26TH AVE. TO 24TH AVE.
LOCAL STREET
MARATHON COUNTY

STATE PROJECT NUMBER
1166-09-77

28TH AVE., SHERMAN ST. TO STEWART AVE.
LOCAL STREET
MARATHON COUNTY

STATE PROJECT NUMBER
1166-09-79

32ND AVE. TO 26TH AVE.
LOCAL STREET
MARATHON COUNTY

STATE PROJECT NUMBER
6999-09-73

31

COUNTY: MARATHON

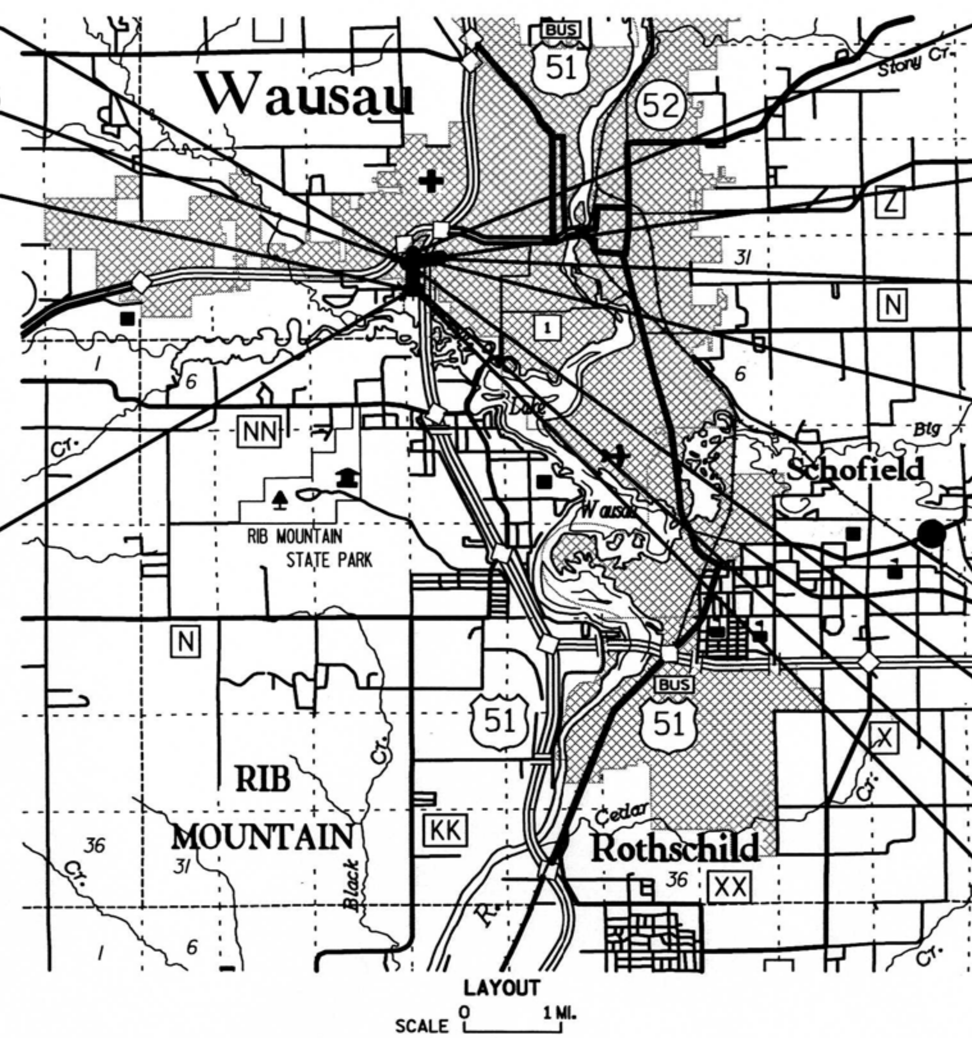
N

BEGIN PROJECT 6999-09-73
STA. 35+00.00 ST

BEGIN CONSTRUCTION 6999-09-73
STA. 32+58.62 ST

BEGIN CONSTRUCTION 1166-09-79
STA. 25+06.84 SH

BEGIN CONSTRUCTION 1166-09-79
STA. 52+48.01 W



END CONSTRUCTION 6999-09-73
STA. 78+72.01 W

END CONSTRUCTION 1166-09-77
STA. 58+73.27 ST

END PROJECT 1166-09-77
STA. 56+69.00 ST

END PROJECT 6999-09-73
BEGIN PROJECT 1166-09-77
STA. 47+50.00 ST
Y=201300.02
X=271343.23

END PROJECT 1166-09-79
BEGIN CONSTRUCTION 6999-09-73
STA. 70+00.00 W
Y=200749.62
X=270672.79

END CONSTRUCTION 1166-09-79
STA. 35+76.29 SH

BEGIN PROJECT 1166-09-79
STA. 53+68.06 W
Y=199118.64
X=270695.90

DESIGN DESIGNATION		STEWART AVE. (WEST OF 28TH AVE.)	STEWART AVE. (EAST OF 28TH AVE.)	28TH AVE.	SHERMAN ST.
A.D.T. (2010)	=	6,100	3,600	11,600	8,000
A.D.T. (2030)	=	8,300	4,900	15,700	10,700
D.H.V.	=	415	855	1,570	1,230
D.D.	=	50/50	50/50	50/50	50/50
T.	=	5.4%	5.4%	5.4%	5.4%
DESIGN SPEED	=	40 MPH	35 MPH	35 MPH	35 MPH
ESALS	=	1,971,000	2,752,100	2,752,100	1,211,800

CONSTRUCTION STAFF
Adam Osypowski / Project Leader
Eric Johnson / Project Leader
Tom Gatzke / Assistant Project Leader
Michelle Guoin / Inspector
Keith Klebenow / Inspector
Matthew Spindler / Inspector
Tom Marschke / Inspector
Tom Willmarth / Inspector
Dave Julson / Inspector
Al Smith / Inspector
Dan Detert / Inspector
Erik Lundwall / Inspector
Jesse Roberge / Surveyor
Adam Budnik / Surveyor
Jeff Strunk / Surveyor

E	
ROUND	
ROCK PROFILE noted as such)	ROCK
ITCH	LABEL
EVATION	95.36
(Profile View)	
	E
IC	FO
	G (size)
SEWER	SAN
WER	SS
E	T
	W
EDESTAL	
LE	
E POLE	

PROJECT	NET LENGTH OF CENTERLINE
PROJECT 1166-09-77	NET LENGTH OF CENTERLINE = 0.174 MI.
PROJECT 1166-09-79	NET LENGTH OF CENTERLINE = 0.309 MI.
PROJECT 6999-09-73	NET LENGTH OF CENTERLINE = 0.237 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.720 MI.

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

ACCEPTED FOR

CITY OF WAUSAU

1/18/08 James E. Tipple
(Date) (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY:

STRAND ASSOCIATES, INC.

WISCONSIN
NED R. GRADY
E-36610
MADISON
WI
PROFESSIONAL ENGINEER

1/10/08

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	STRAND ASSOCIATES
Designer	STRAND ASSOCIATES
Project Manager	DAN HOLLOWAY
Regional Examiner	ADAM OSYPOWSKI
Regional Supervisor	MATTHEW BRONSON
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 1/23/08 (Signature)

E

GENERAL NOTES

MISCELLANEOUS

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

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

RADIUS DIMENSIONS ON CURB AND GUTTER ARE TO THE FLANGE OF CURB UNLESS OTHERWISE NOTED.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

REMOVALS

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON THE PLANS, OR SAWED AS DETERMINED BY THE ENGINEER.

CONFLICTING SIGNS SHALL BE COVERED OR REMOVED.

GRADING/EROSION CONTROL

TOPSOIL, SEEDING, MULCHING, AND FERTILIZER HAVE BEEN COMPUTED BY A DIRECT MEASUREMENT ON THE CROSS SECTIONS PLUS FIVE (5) FEET BEYOND THE TOE OF SLOPE.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENT CONSTRUCTED FROM BORROW. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.25. ACTUAL EXPANSION FACTOR MAY VARY.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.

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 EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

TOPSOIL DEPTH IN URBAN AREAS SHALL BE 6-INCHES.

STORM DRAINAGE

CROSS DRAIN PIPE INVERT ELEVATIONS AS SHOWN ON THE CROSS SECTIONS MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS

PAVING

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

THE LOCATION AND WIDTH OF DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

5-INCH HMA PAVEMENT SHALL BE CONSTRUCTED WITH AN 2-INCH UPPER LAYER AND 3-INCH LOWER LAYER.

5.5-INCH HMA PAVEMENT SHALL BE CONSTRUCTED WITH AN 2.5-INCH UPPER LAYER AND 3-INCH LOWER LAYER.

UTILITIES

UTILITY OR MUNICIPALITY	ADDRESS	CONTACT	UTILITY TYPE
*CHARTER COMMUNICATIONS	853 MCINTOSH STREET P.O. BOX 1818 WAUSAU, WI 54402-1818	MR. JEFF KULAF 715-842-3910 EXT. 256	CABLE TV
*VERIZON NORTH, INC.	521 FOURTH STREET WAUSAU, WI 54403-4869	MR. KEVIN SCHEDLBAUER 715-847-1501	TELEPHONE
*WISCONSIN PUBLIC SERVICE CORPORATION	1700 SHERMAN STREET P.O. BOX 1166 WAUSAU, WI 54402-1166	MR. RICH REPKA 715-848-7471	GAS
*WISCONSIN PUBLIC SERVICE CORPORATION	1700 SHERMAN STREET P.O. BOX 1166 WAUSAU, WI 54402-1166	MR. CLAYTON VIRCKS 715-848-7317	ELECTRIC
*WISCONSIN PUBLIC SERVICE CORPORATION	700 NORTH ADAMS STREET P.O. BOX 19001 GREEN BAY, WI 54307-9001	MR. GREG STANO 920-433-1701	SUB-TRANSMISSION LINE
CITY OF WAUSAU PUBLIC WORKS	407 GRANT STREET WAUSAU, WI 54403-4783	MR. BRAD MARQUARDT, P.E. 715-261-6740	STORM SEWER, STREET LIGHTING, TRAFFIC SIGNALS
CITY OF WAUSAU WAUSAU WATER WORKS	407 GRANT STREET WAUSAU, WI 54403-4783	MR. JOSEPH GEHIN 715-261-6530	SANITARY SEWER AND WATERMAIN
CANADIAN NATIONAL RAILWAY COMPANY	1625 DEPOT STREET STEVENS POINT, WI 54481	MR. TERRY LEE 715-345-2503	RAILROAD

*MEMBER OF DIGGERS HOTLINE

DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ABBREVIATIONS

ABUT.	ABUTMENT	MIN.	MINIMUM
A.D.T.	AVERAGE DAILY TRAFFIC	NORM.	NORMAL
B.F.	BACK FACE	O.H.	OVERHEAD POWER LINE
B.M.	BENCH MARK	P.O.L.	POINT ON LINE
CTR.	CENTER	REQ'D.	REQUIRED
C.L.	CENTERLINE	RDWY.	ROADWAY
D.	LANE DISTRIBUTION	R.H.F.	RIGHT HAND FORWARD
D.H.V.	DESIGN HOURLY VOLUME	S.E.	SUPERELEVATION
DIA.	DIAMETER	SPA.	SPACE
DIM.	DIMENSION	STA.	STATION
EL. OR ELEV.	ELEVATION	SYM.	SYMMETRICAL
EXC.	EXCAVATION	T.	PERCENT OF TRUCKS
F.F.	FRONT FACE	T.O.S.	TOP OF STRUCTURE
MAX.	MAXIMUM	TYP.	TYPICAL
		V.	DESIGN SPEED

WISDNR CONTACT

TONY FISCHER
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
WEST CENTRAL REGION
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
PH: (715) 421-7867

DESIGN CONSULTANT

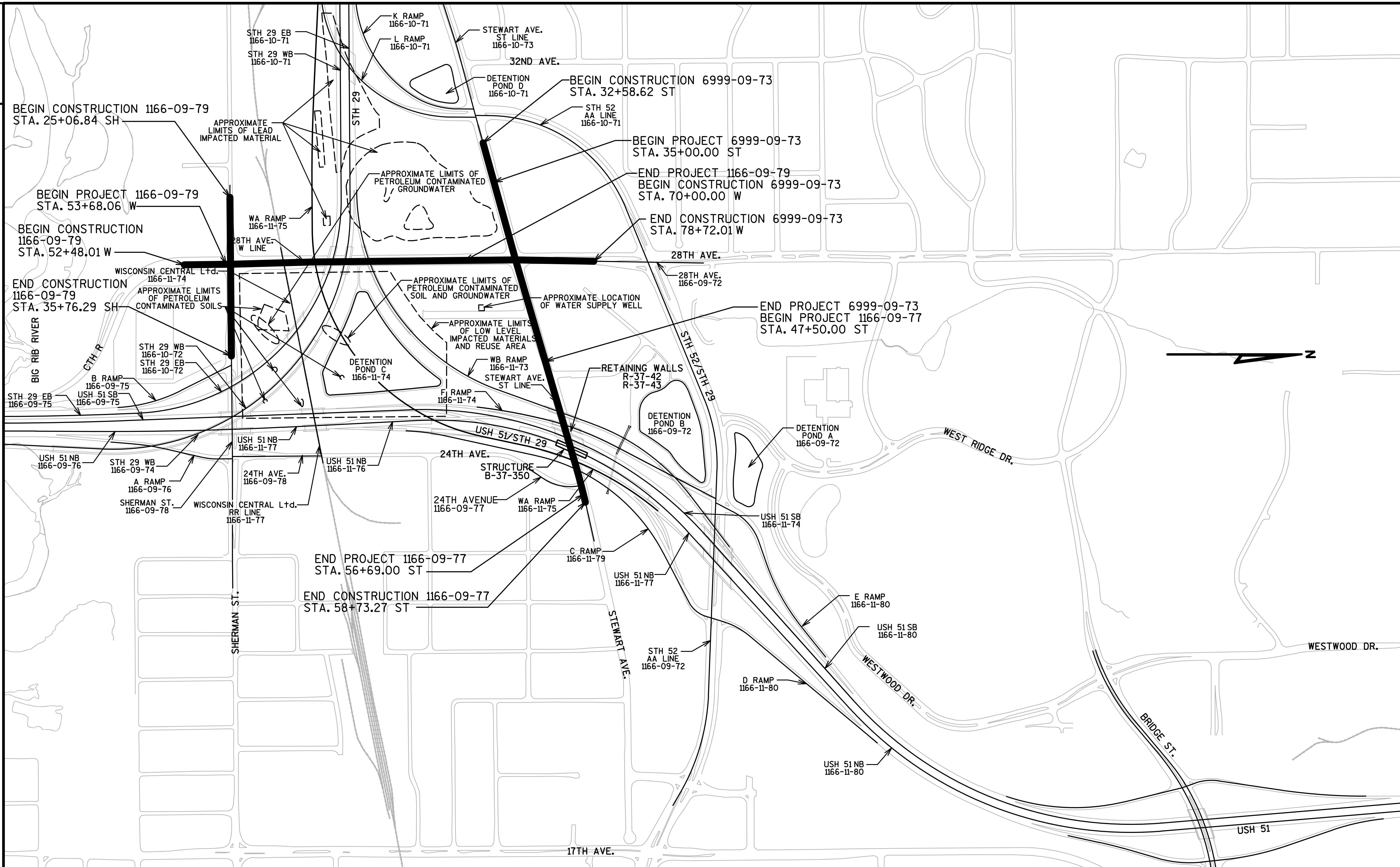
NED GRADY
STRAND ASSOCIATES
910 W. WINGRA DRIVE
MADISON, WI 53715
PH: (608) 251-4843

REGION CONTACT

DAN HOLLOWAY
1681 2ND AVE S.
WISCONSIN RAPIDS, WI 54495
PH: (715) 421-7305

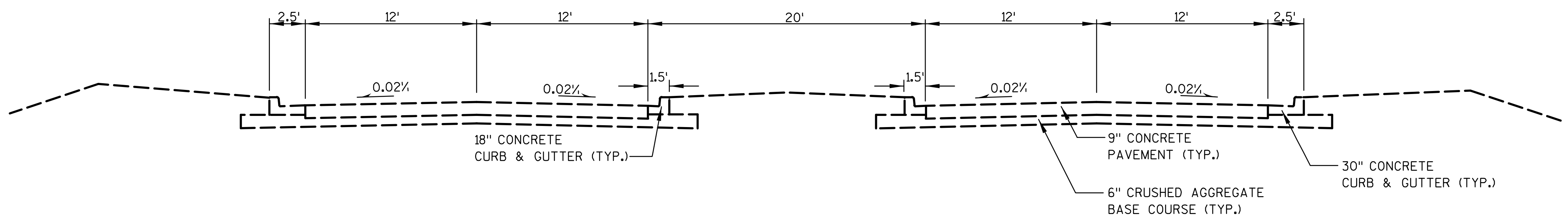
CITY CONTACT

BRAD MARQUARDT
407 GRANT STREET
WAUSAU, WI 54403-4783
PH: (715) 261-6740

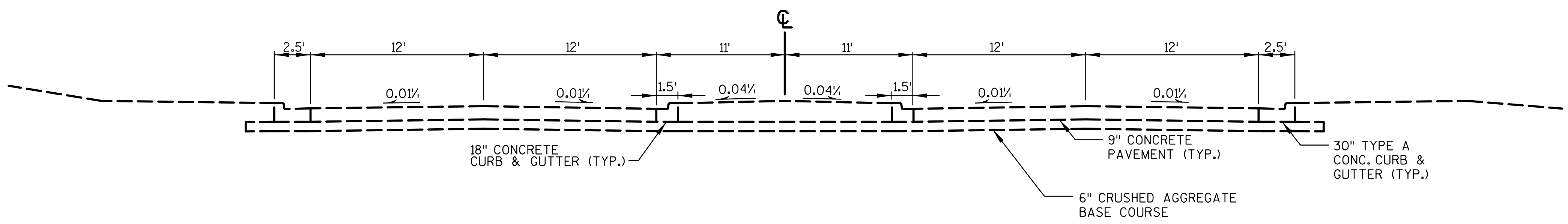


PROJECT NO: 1166-09-77, 1166-09-79, 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PROJECT OVERVIEW	SCALE, FEET 0 300 600	SHEET 3	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\020201_po.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

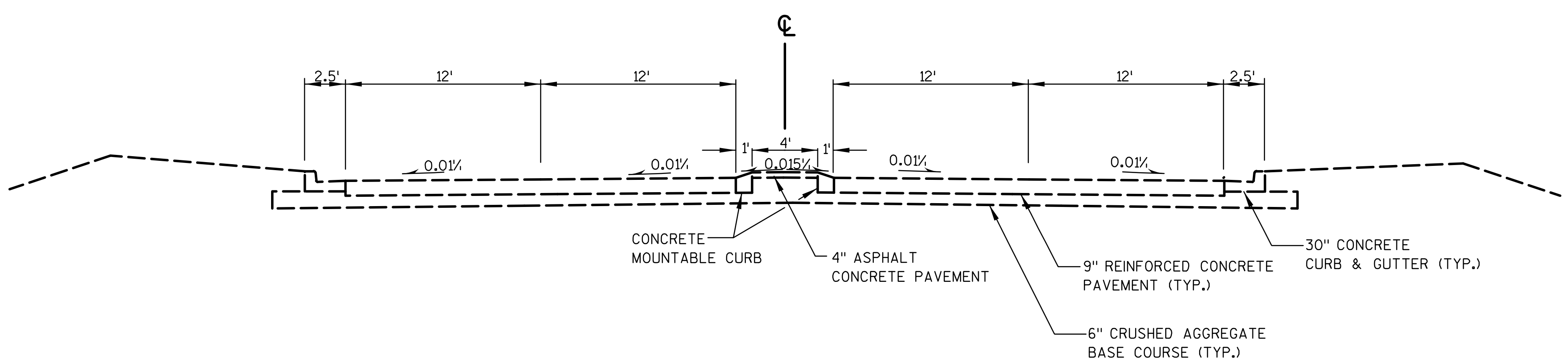


EXISTING TYPICAL SECTION - 28TH AVENUE



EXISTING TYPICAL SECTION - STEWART AVENUE

WEST OF 28TH AVENUE



EXISTING TYPICAL SECTION - STEWART AVENUE

EAST OF 28TH AVENUE

2

① MEDIAN WIDTH VARIES
STA. 55+22.00 W 34.4'
STA. 56+11.82 W 37.0'
STA. 58+10.61 W 37.0'
STA. 60+91.25 W 20.0'
STA. 64+09.39 W 20.0'
STA. 64+23.99 W 22.0'

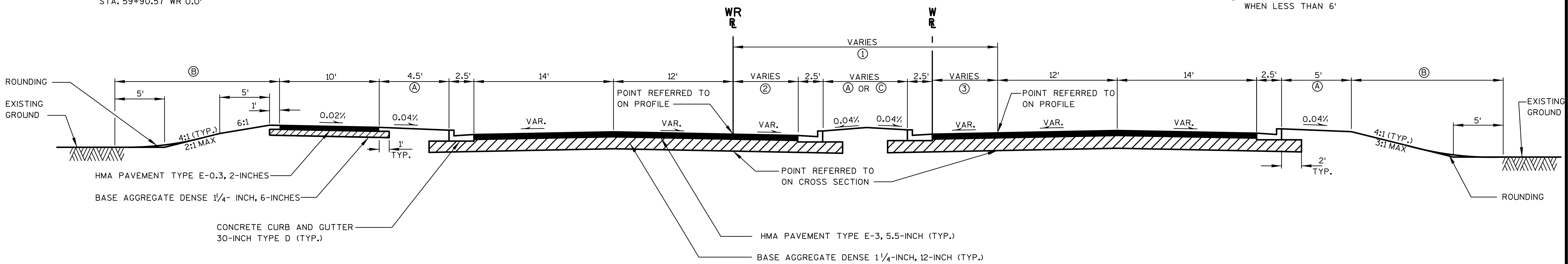
② PAVEMENT WIDTH VARIES
STA. 55+19.01 WR 24.0'
STA. 58+10.57 WR 24.0'
STA. 59+90.57 WR 0.0'

③ PAVEMENT WIDTH VARIES
STA. 65+93.29 W 0.0'
STA. 67+13.29 W 12.0'
STA. 68+63.29 W 12.0'
STA. 69+88.18 W 0.0'

Ⓐ TOPSOIL; FERTILIZER FOR LAWN TYPE TURF; SEEDING MIXTURE NO. 30; SEEDING TEMPORARY; PREPARING TOPSOIL FOR LAWN TYPE TURF EROSION MAT URBAN CLASS I TYPE A

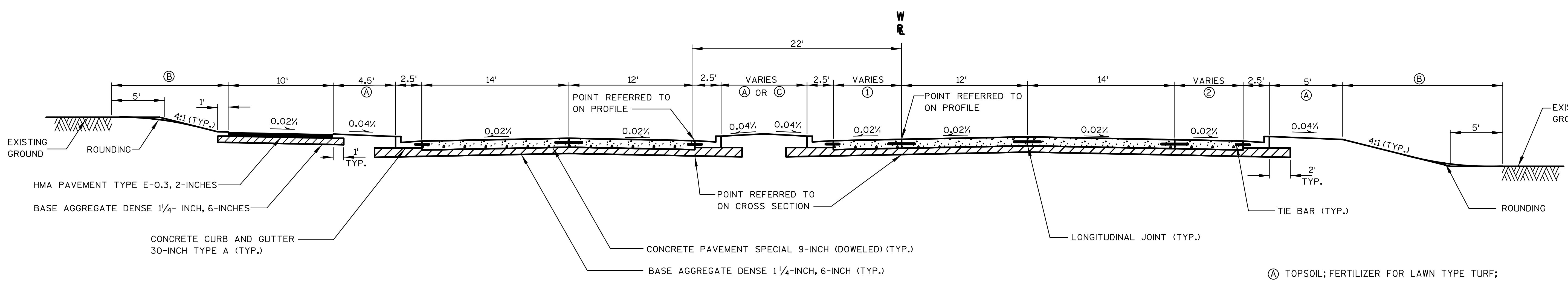
Ⓑ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING

Ⓒ CONCRETE SIDEWALK 5-INCH WHEN LESS THAN 6'



TYPICAL FINISHED SECTION - 28TH AVENUE

STA. 53+68.06 WR TO STA. 60+91.00 WR
STA. 60+91.00 W TO STA. 70+00.00 W
STA. 53+68.06 W TO STA.70+00.00 W



① PAVEMENT WIDTH VARIES
STA. 70+00.76 W 0.0'
STA. 71+20.76 W 12.0'
STA. 72+70.76 W 12.0'

② PAVEMENT WIDTH VARIES
STA. 70+33.82 W 0.0'
STA. 71+53.82 W 12.0'
STA. 73+03.82 W 12.0'

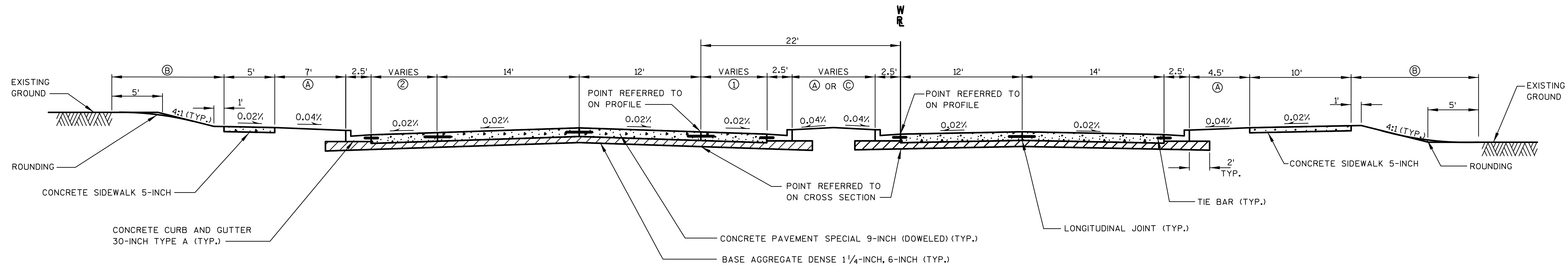
TYPICAL FINISHED SECTION - 28TH AVENUE

STA. 70+00.00 W TO STA. 74+35.40 W

Ⓐ TOPSOIL; FERTILIZER FOR LAWN TYPE TURF; SEEDING MIXTURE NO. 30; SEEDING TEMPORARY; PREPARING TOPSOIL FOR LAWN TYPE TURF EROSION MAT URBAN CLASS I TYPE A

Ⓑ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING

Ⓒ CONCRETE SIDEWALK 5-INCH WHEN LESS THAN 6'



(A) TOPSOIL; FERTILIZER FOR LAWN TYPE TURF; SEEDING MIXTURE NO. 30; SEEDING TEMPORARY; PREPARING TOPSOIL FOR LAWN TYPE TURF EROSION MAT URBAN CLASS I TYPE A

(B) TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING

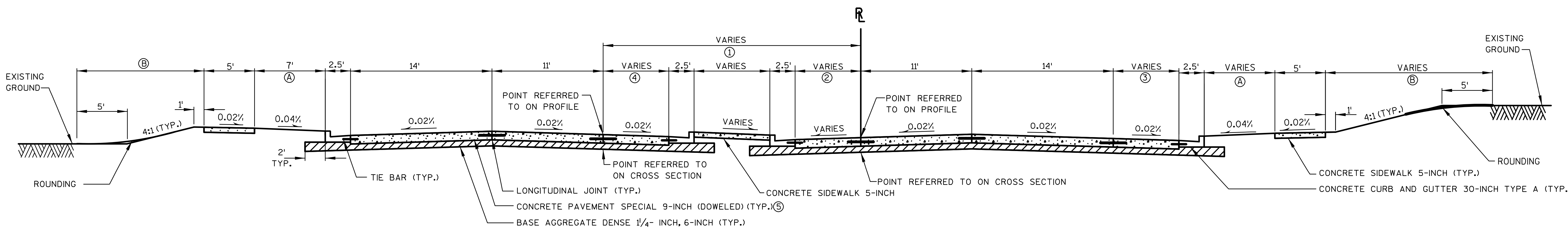
(C) CONCRETE SIDEWALK 5-INCH WHEN LESS THAN 6'

(1) PAVEMENT WIDTH VARIES
STA. 74+49.39 W 12.0'
STA. 75+49.39 W 12.0'
STA. 76+69.39 W 0.0'

(2) PAVEMENT WIDTH VARIES
STA. 74+16.54 W 12.0'
STA. 75+16.54 W 12.0'
STA. 76+36.54 W 0.0'

TYPICAL FINISHED SECTION - 28TH AVENUE

STA. 74+35.40 W TO STA. 76+84.39 W



(1) MEDIAN WIDTH VARIES
STA. 35+00.00 ST 22.0'
STA. 35+74.78 ST 22.0'
STA. 36+35.83 ST 20.0'

(2) PAVEMENT WIDTH VARIES
STA. 35+00.00 ST 12.0'
STA. 35+24.54 ST 12.0'

STA. 36+46.56 ST 0.0'
STA. 37+82.88 ST 0.0'
STA. 38+57.88 ST 10.0'
STA. 39+57.88 ST 10.0'

(3) PAVEMENT WIDTH VARIES
STA. 37+17.33 ST 0.0'
STA. 38+27.33 ST 11.0'
STA. 39+27.33 ST 11.0'

(4) PAVEMENT WIDTH VARIES
STA. 36+46.56 ST 12.0'
STA. 37+82.35 ST 12.0'
STA. 38+72.35 ST 0.0'

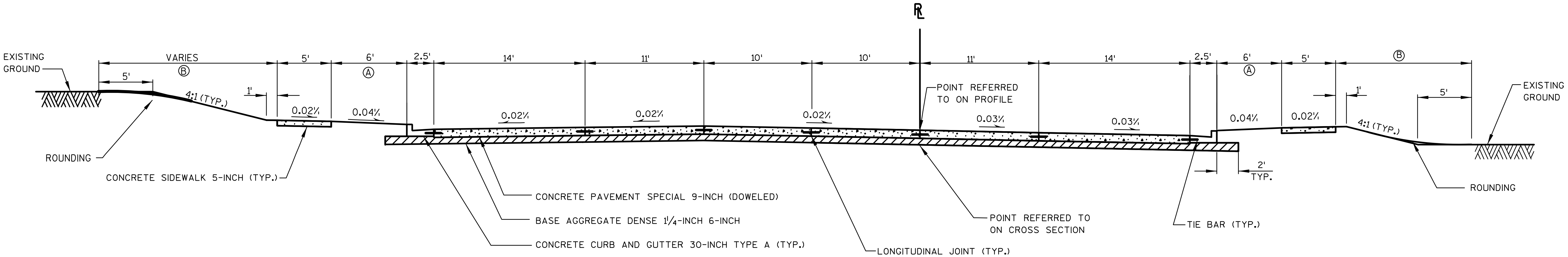
STA. 41+19.63 ST 10.0'
STA. 42+72.19 ST 10.0'
STA. 43+43.24 ST 0.0'

TYPICAL FINISHED SECTION - STEWART AVENUE

STA. 35+00.00 ST TO STA. 43+85.81 ST

(A) TOPSOIL; FERTILIZER FOR LAWN TYPE TURF; SEEDING MIXTURE NO. 30; SEEDING TEMPORARY; PREPARING TOPSOIL FOR LAWN TYPE TURF EROSION MAT URBAN CLASS I TYPE A

(B) TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING

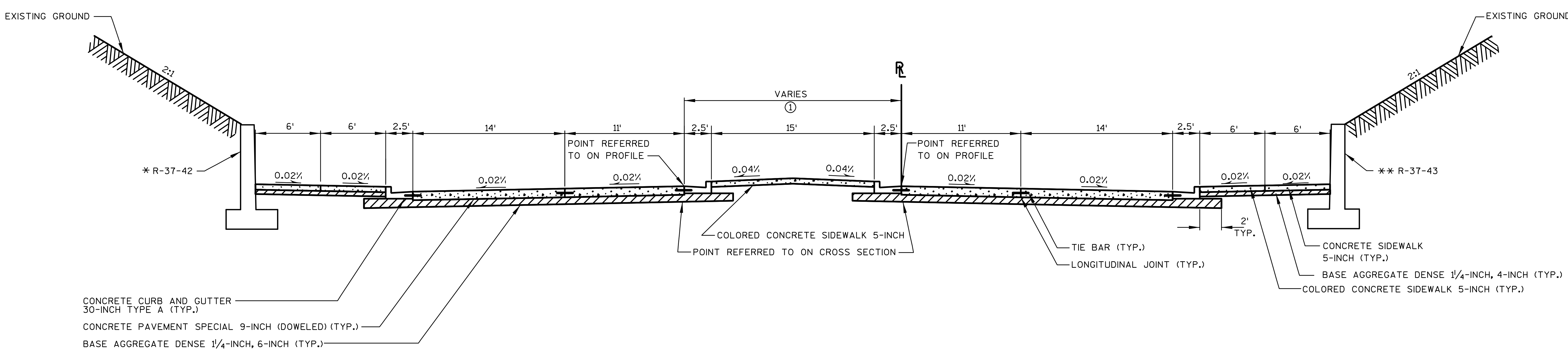


TYPICAL FINISHED SECTION - STEWART AVENUE

STA. 43+85.81 ST TO STA. 50+63.95 ST

Ⓐ TOPSOIL; FERTILIZER FOR LAWN TYPE TURF; SEEDING MIXTURE NO. 30; SEEDING TEMPORARY; PREPARING TOPSOIL FOR LAWN TYPE TURF EROSION MAT URBAN CLASS I TYPE A

Ⓑ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING



* STA. 51+30.0 ST - STA. 53+52.6 ST, EXISTING WALL
STA. 53+52.6 ST - STA. 56+09.3 ST, PROPOSED WALL UNDER 1166-11-76

** STA. 50+41.4 ST - STA. 52+70.1 ST, EXISTING WALL
STA. 52+70.1 ST - STA. 54+92.6 ST, PROPOSED WALL UNDER 1166-11-76

TYPICAL FINISHED SECTION - STEWART AVENUE

STA. 50+63.95 ST TO STA. 56+69.00 ST

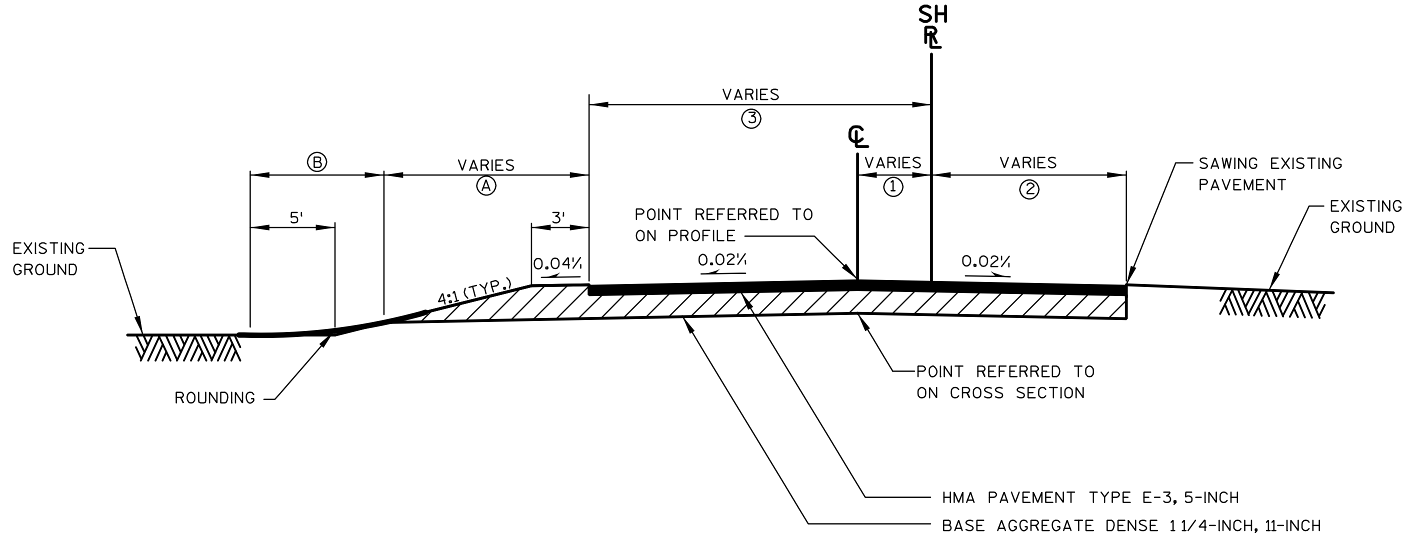
① MEDIAN WIDTH VARIES
STA. 50+63.95 ST 20.00'
STA. 54+37.72 ST 20.00'
STA. 55+91.50 ST 20.25'

PROJECT NO:6999-09-73 & 1166-09-77	HWY: USH 51/STH 29	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 8	E

① WIDTH VARIES
STA. 26+26.02 SH 3.7'
STA. 27+40.73 SH 0.0'

② PAVEMENT WIDTH VARIES
STA. 26+26.02 SH 8.3'
STA. 27+11.38 SH 11.1'
STA. 28+56.68 SH 26.0'

③ PAVEMENT WIDTH VARIES
STA. 26+26.02 SH 23.0'
STA. 26+74.04 SH 27.0'
STA. 28+61.52 SH 44.7'

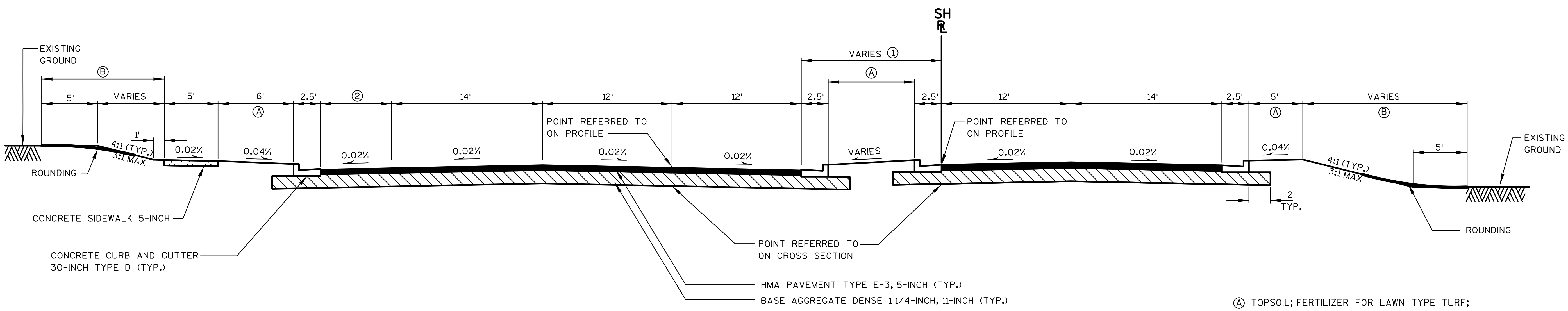


Ⓐ SEEDING TEMPORARY; SEEDING MIXTURE NO. 40; FERTILIZER TYPE B;

Ⓑ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING

TYPICAL FINISHED SECTION - SHERMAN STREET

STA. 26+26.02 SH TO STA. 29+07.05 SH



Ⓐ TOPSOIL; FERTILIZER FOR LAWN TYPE TURF; SEEDING MIXTURE NO. 30; SEEDING TEMPORARY; PREPARING TOPSOIL FOR LAWN TYPE TURF EROSION MAT URBAN CLASS I TYPE A

Ⓑ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; SEEDING TEMPORARY; MULCHING

① MEDIAN WIDTH VARIES
STA. 29+87.90 SH 12.9'
STA. 33+00.00 SH 19.7'

② PAVEMENT WIDTH VARIES
STA. 30+73.61 SH 24.6'
STA. 32+33.24 SH 14.0'
STA. 33+00.00 SH 14.0'

TYPICAL FINISHED SECTION - SHERMAN STREET

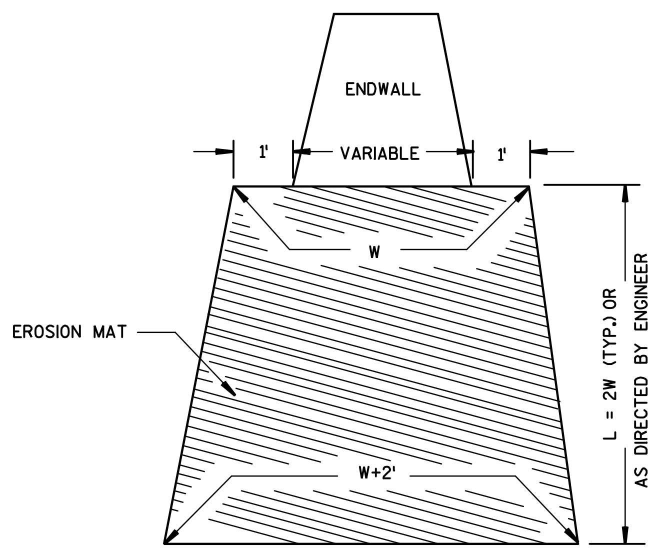
STA. 29+87.90 SH TO STA. 33+00.00 SH

2

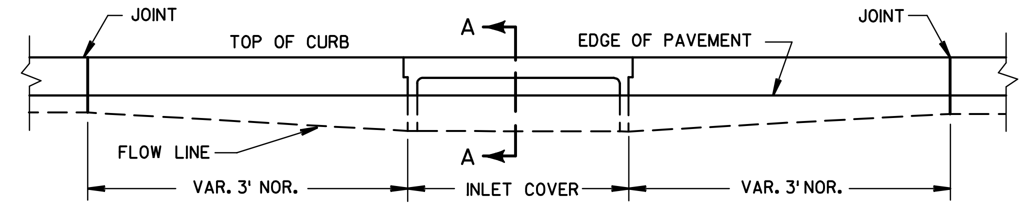
RUNOFF COEFFICIENT TABLE

	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											

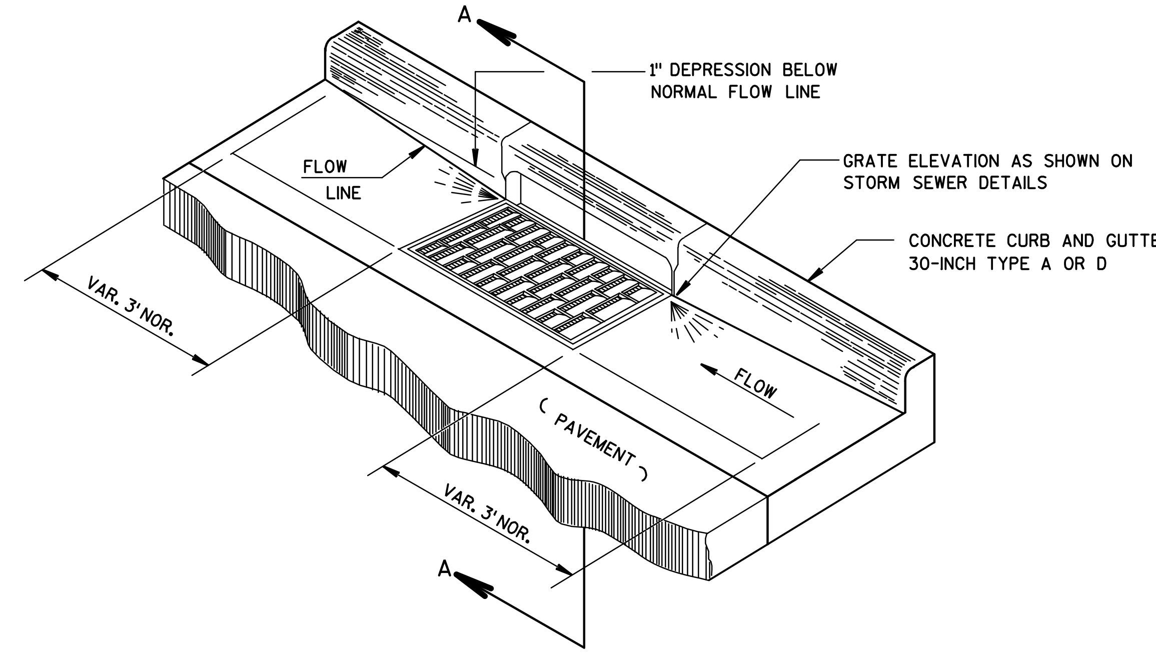
TOTAL PROJECT AREA = 3.308 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.071 ACRES

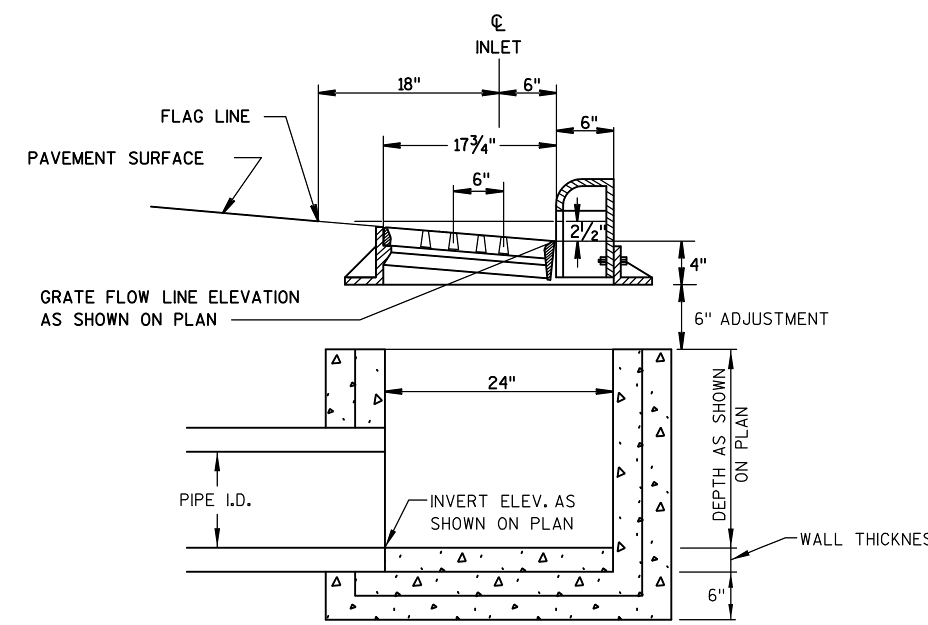


EROSION MAT TREATMENT AT CULVERTS



ELEVATION





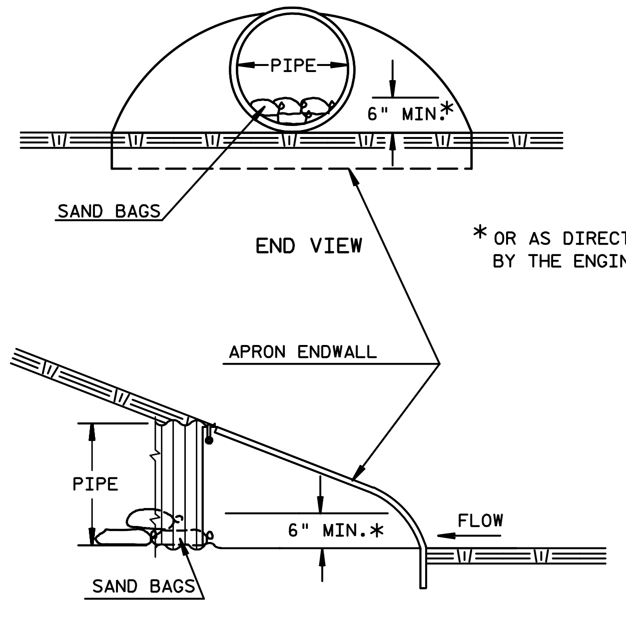
SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

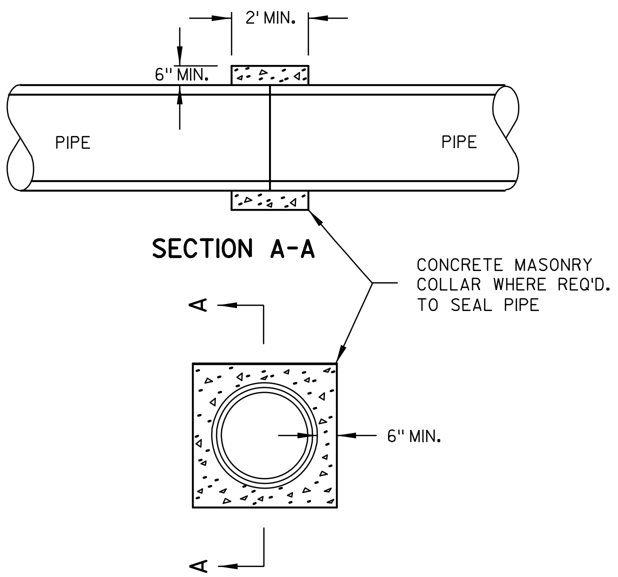
(TYPE 3-H INLET SHOWN)

2

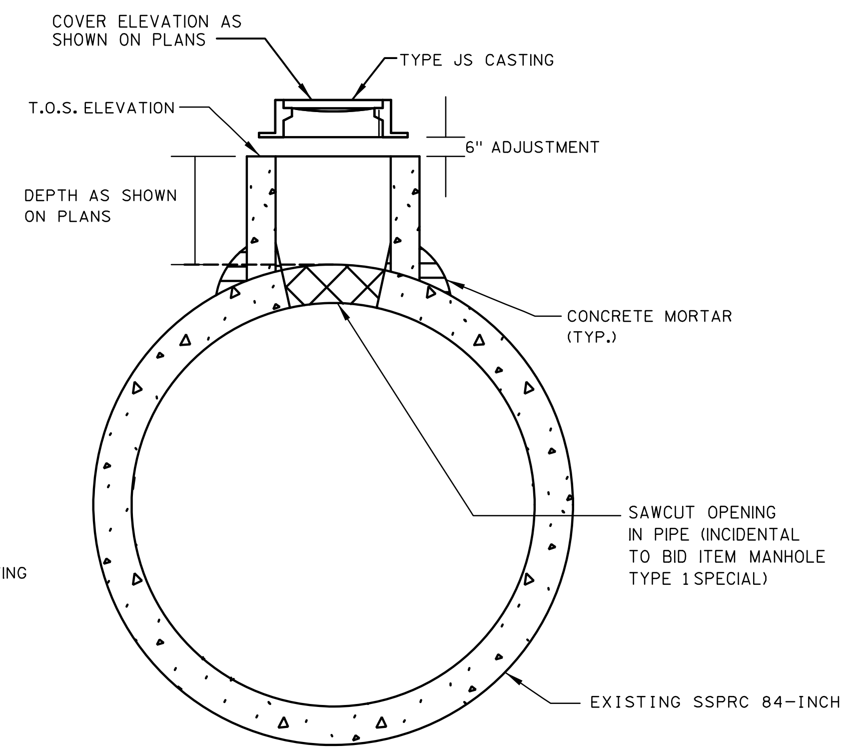
2



CULVERT PIPE DITCH CHECK



CULVERT PIPE CONCRETE COLLAR DETAIL

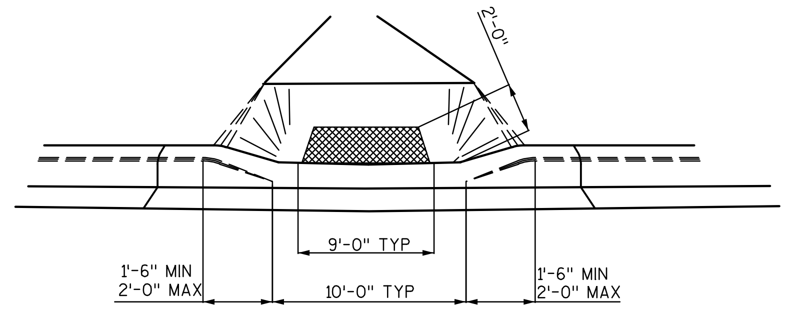


NOTE: DETAILS NOT SHOWN SHALL CONFORM TO STANDARD DETAIL DRAWING FOR MANHOLES TYPE 1

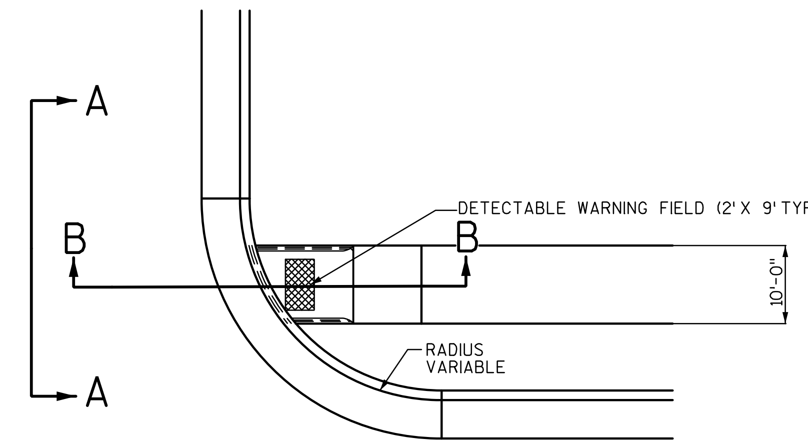
MANHOLE TYPE 1 SPECIAL

2

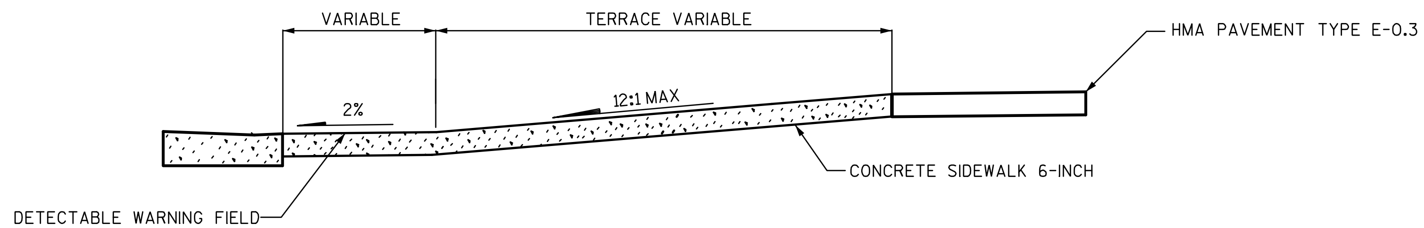
PROJECT NO: 1166-09-77, 1166-09-79, 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 11	E



VIEW A-A



PLAN VIEW



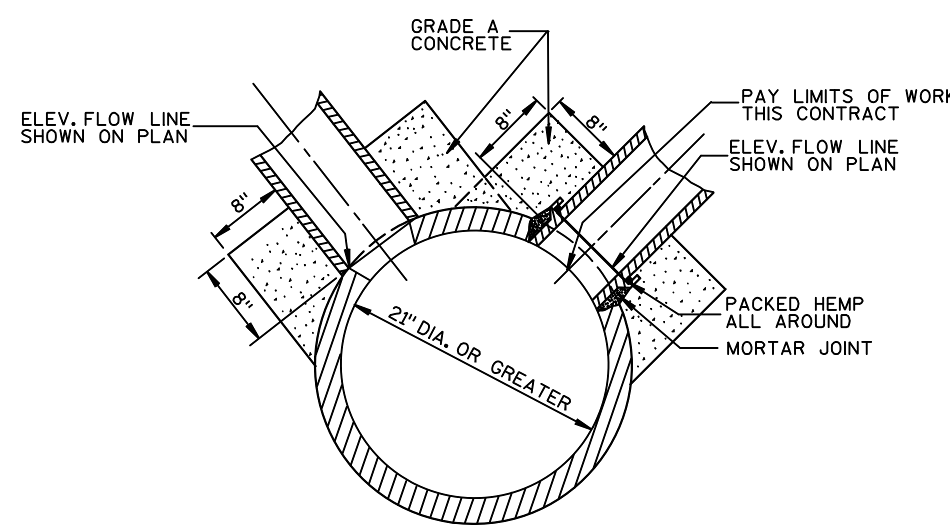
SECTION B-B

CURB RAMP

FOR MULTI-USE PATH

GENERAL NOTES

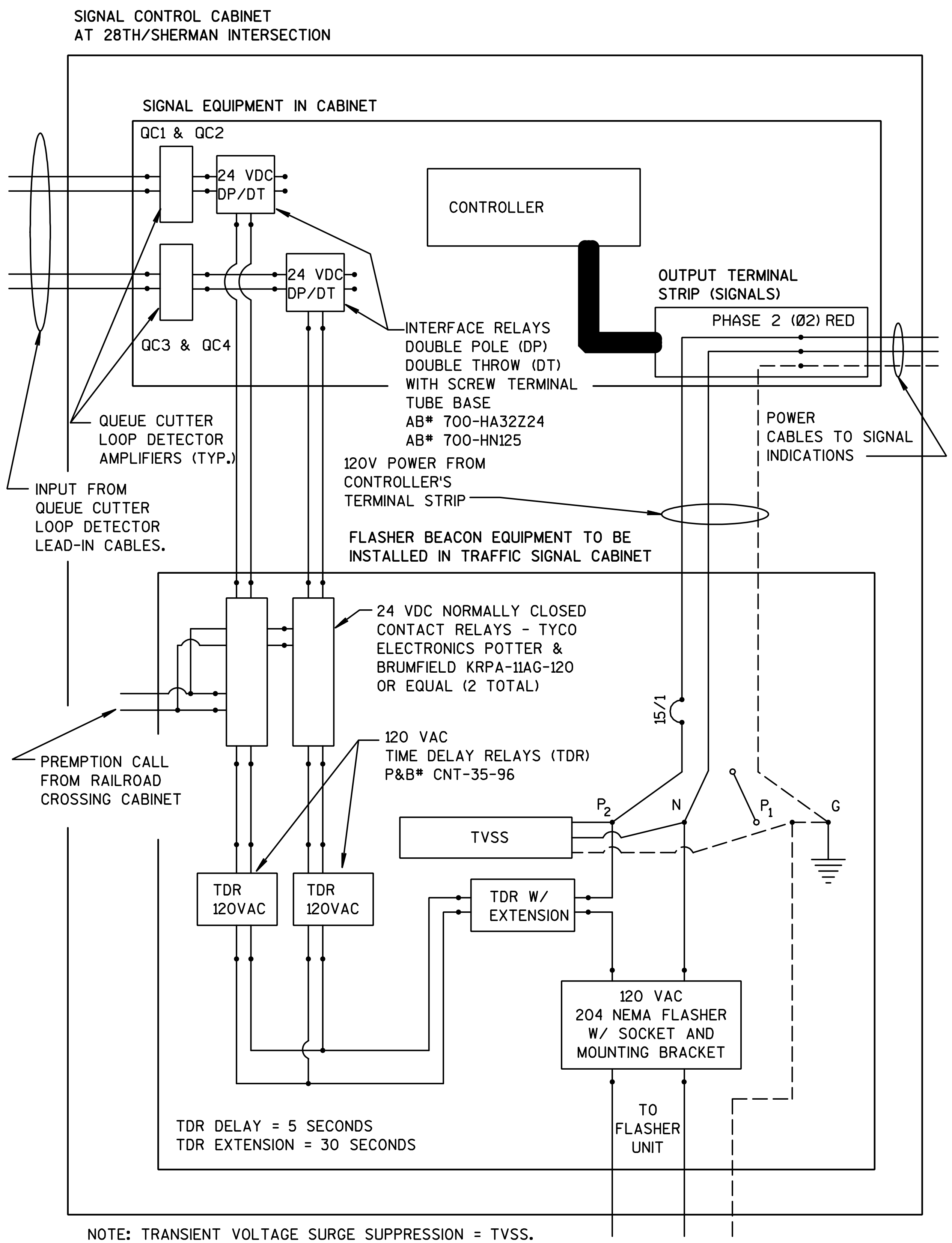
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE APPLICABLE SPECIAL PROVISIONS, AND THE STANDARD DETAIL DRAWING "CURB RAMPS TYPE 2 AND 3."



DETAIL OF CONNECTION TO STORM SEWER

NOTE: CONTRACT UNIT PRICE FOR PIPE SHALL INCLUDE COST OF CONNECTION TO EXISTING STORM SEWER OR M.H.

PROJECT NO: 1166-09-77, 1166-09-79, 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 12	E

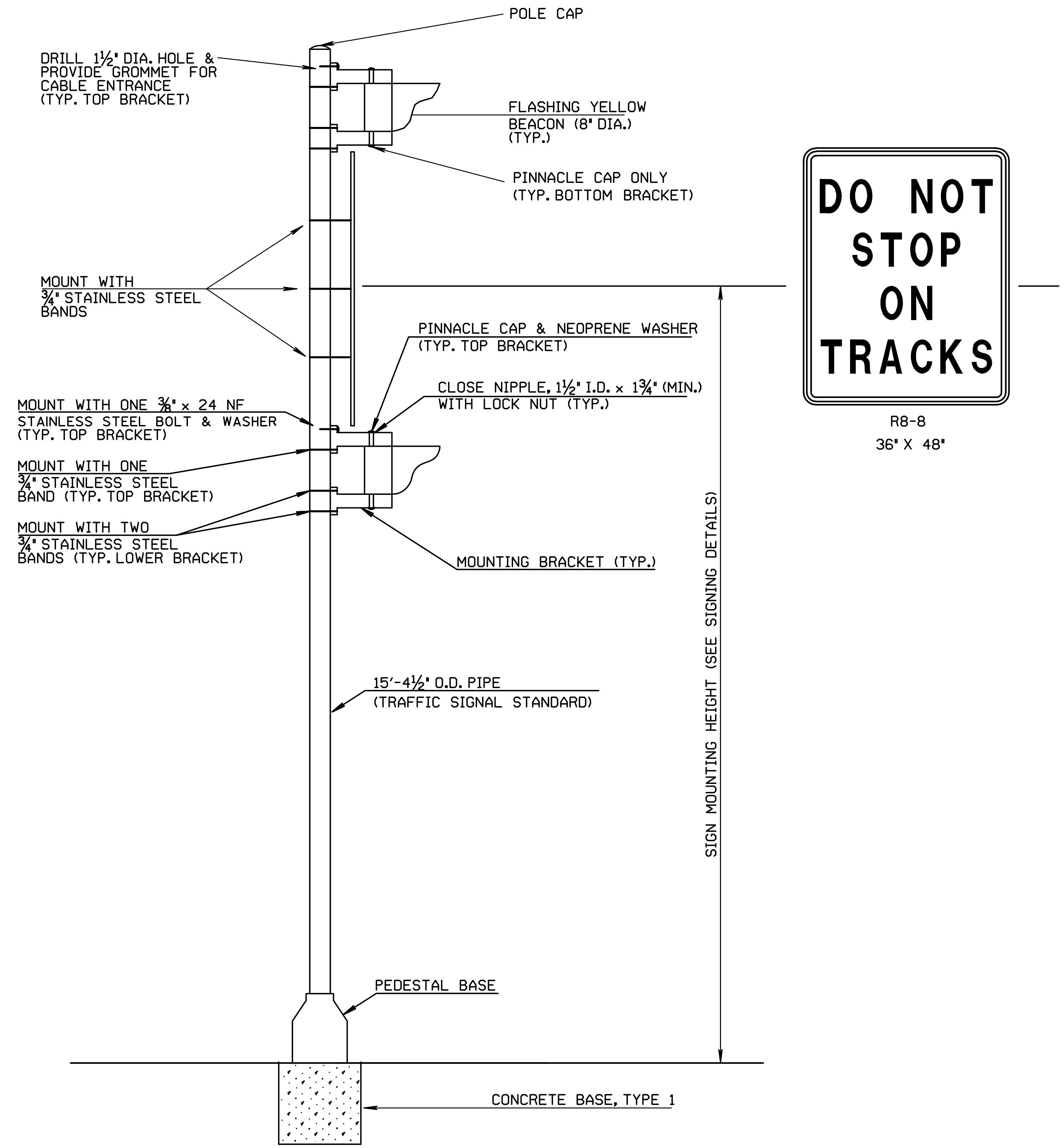


NOTE: TRANSIENT VOLTAGE SURGE SUPPRESSION = TVSS.
SALVAGE AND REUSE ALL QUEUE CUTTER BEACON EQUIPMENT FROM EXISTING TRAFFIC SIGNAL CABINET.

WIRING DETAIL

ADVANCE FLASHER FOR QUEUE CUTTER BEACON

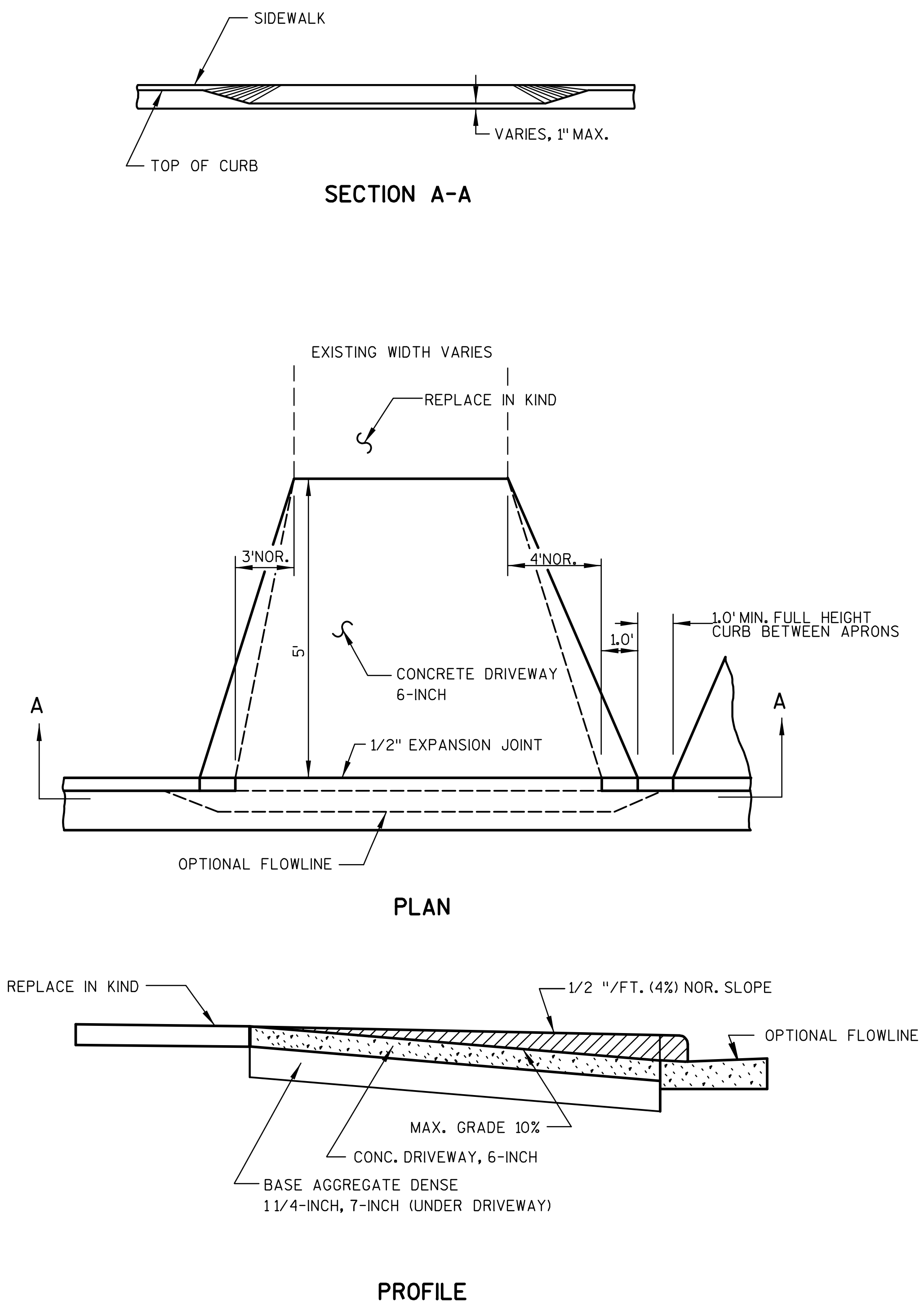
POLE DETAIL PROVIDED
FOR INFORMATION PURPOSES ONLY



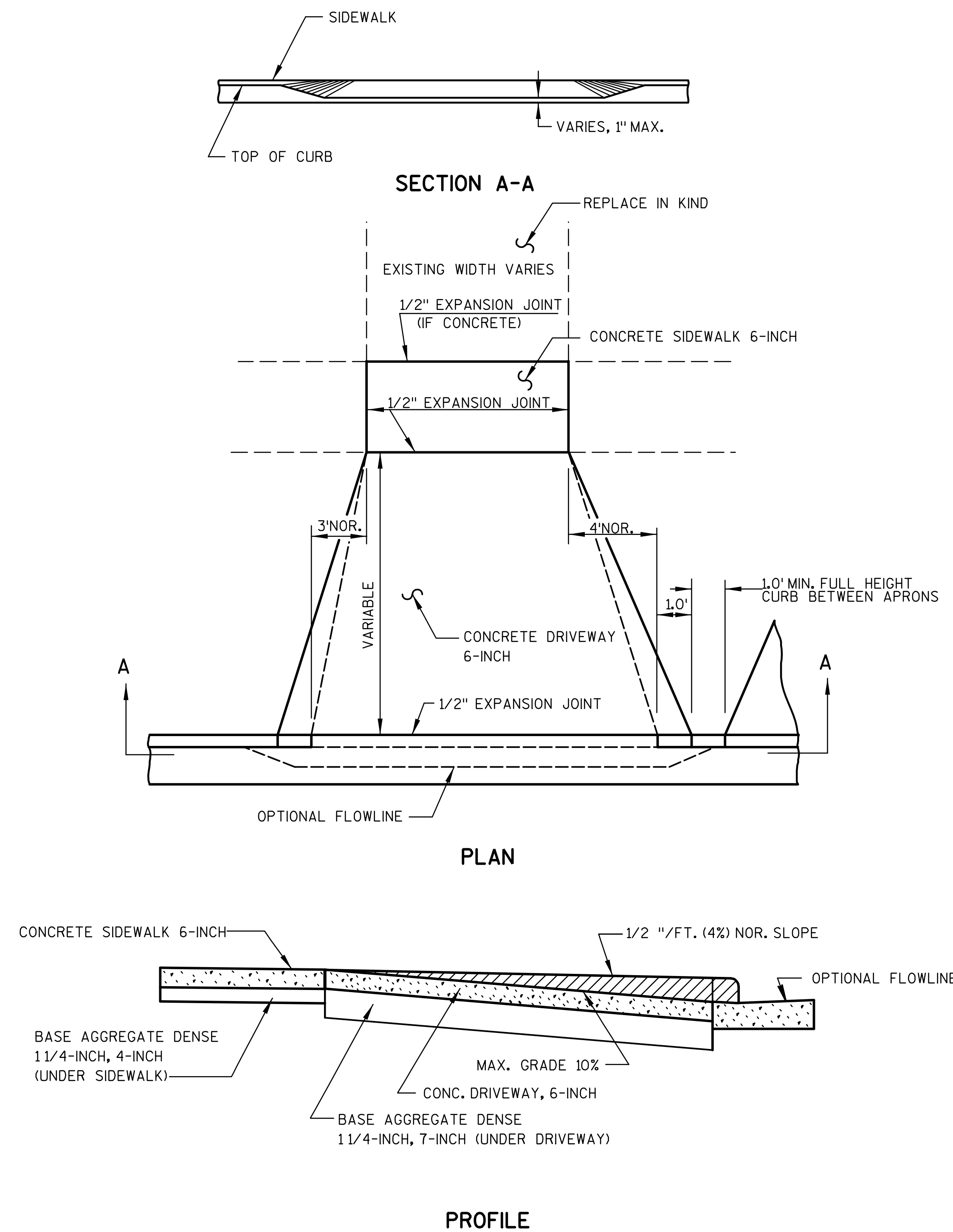
TYPICAL DETAIL

ADVANCE FLASHER FOR QUEUE CUTTER BEACON
FOR INFORMATION PURPOSES ONLY

2



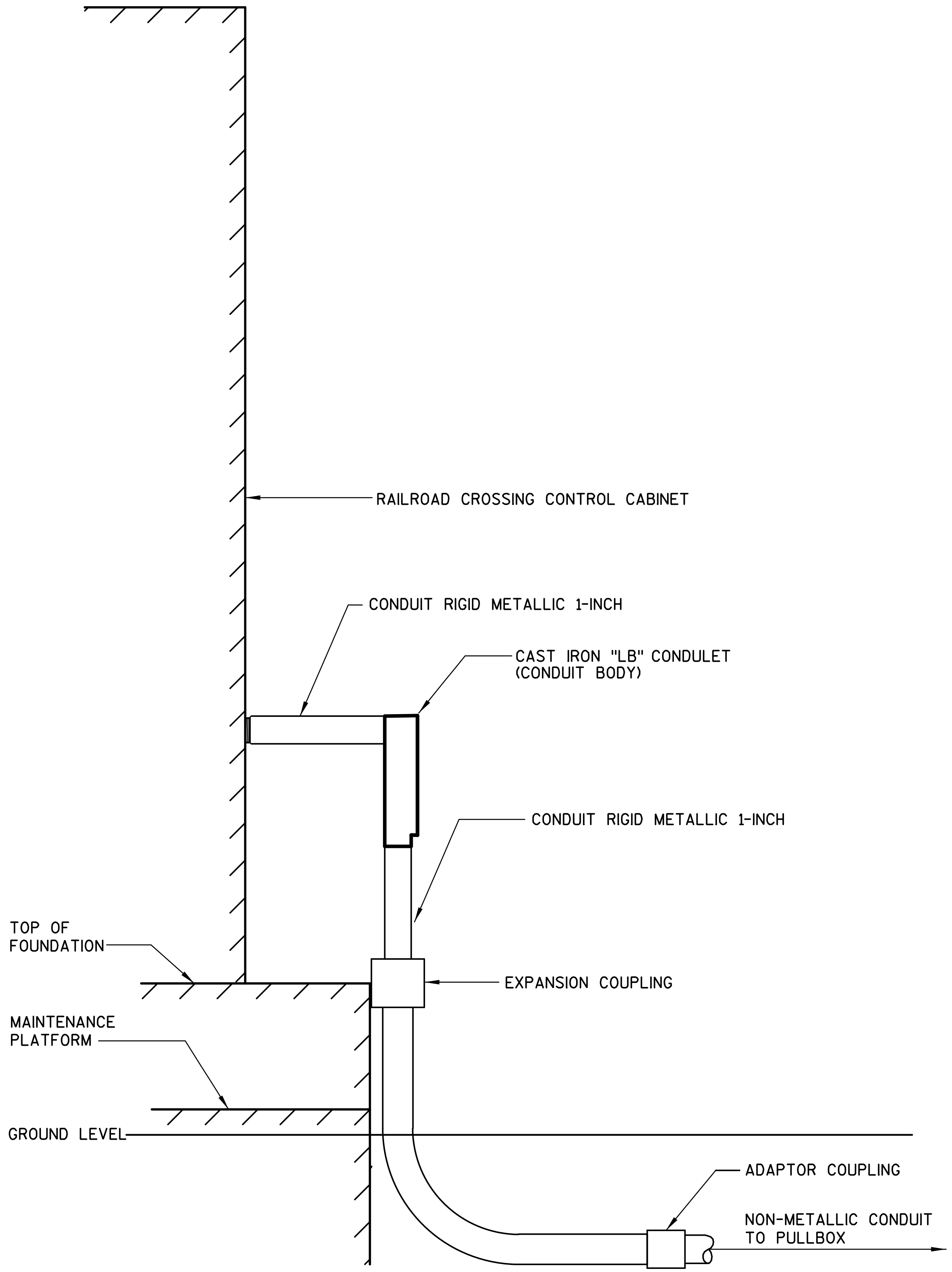
URBAN DRIVEWAY WITHOUT SIDEWALK DETAIL



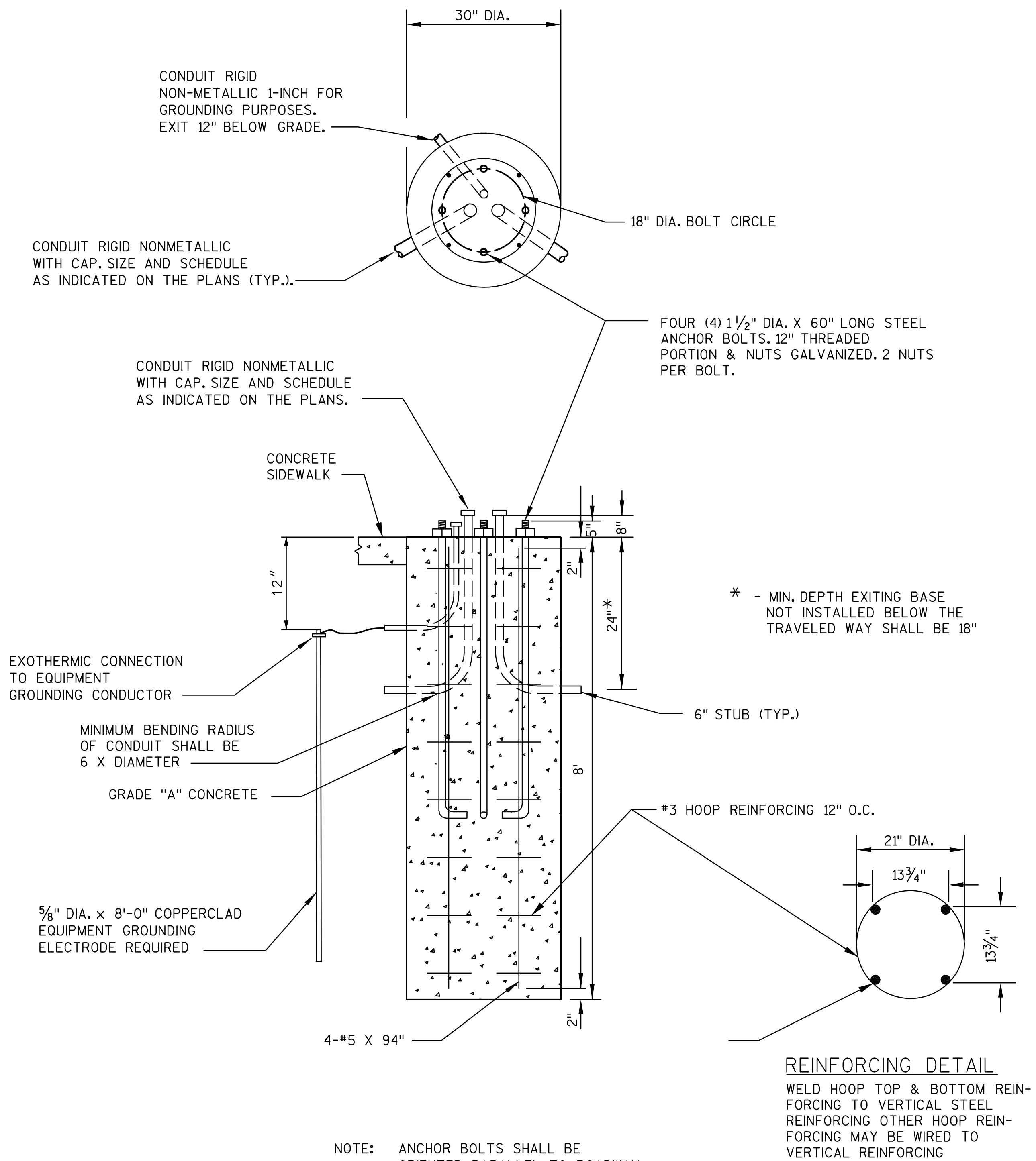
URBAN DRIVEWAY WITH SIDEWALK DETAIL

2

PROJECT NO: 1166-09-77, 1166-09-79, 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 14	E



CONDUIT INSTALLED INTO SIDE OF CABINET



NOTE: ANCHOR BOLTS SHALL BE ORIENTED PARALLEL TO ROADWAY

BASE SHALL BE LOCATED SO ALL SIGNAL EQUIPMENT HAS A MINIMUM 24" CLEARANCE TO FACE OF CURB

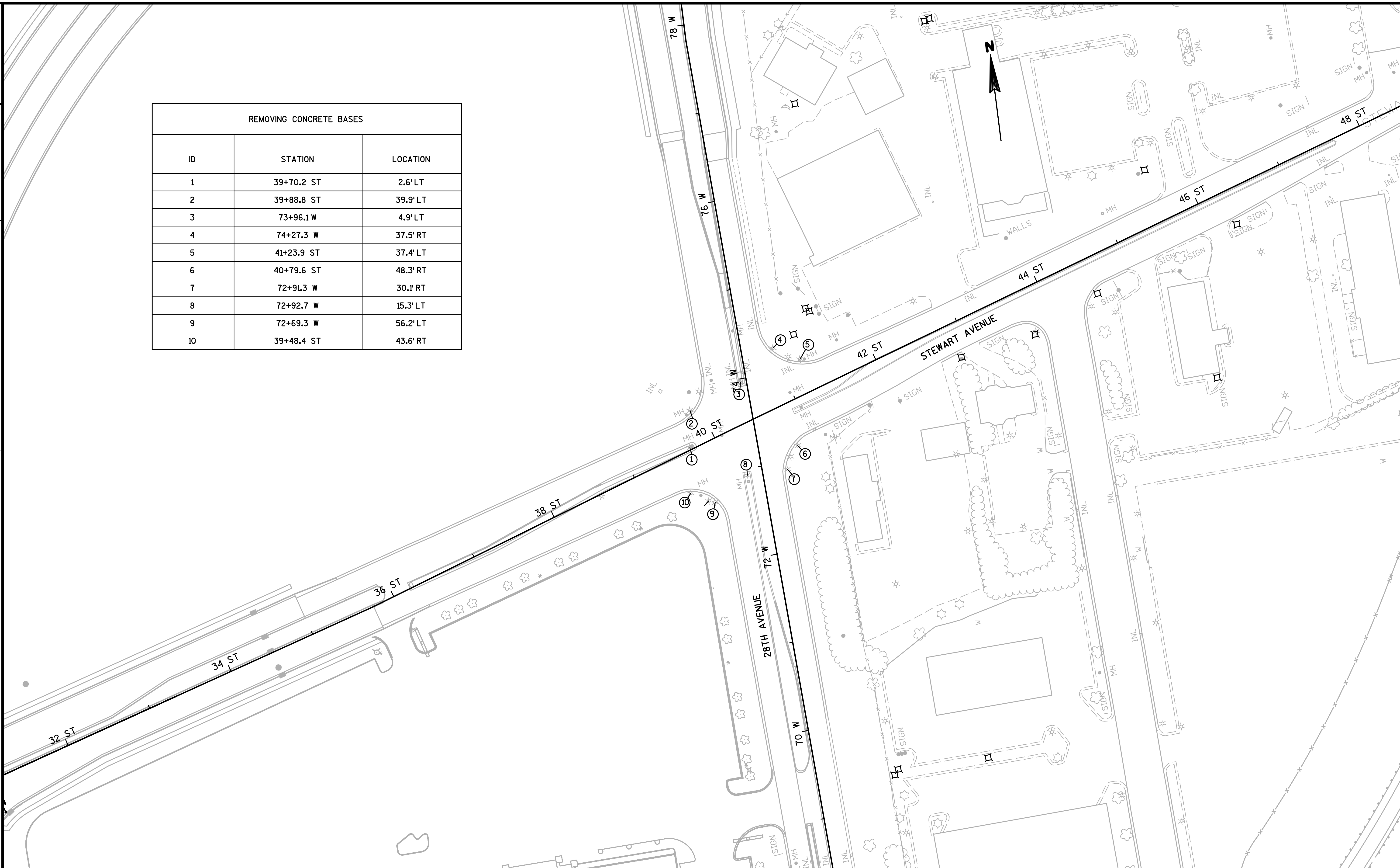
DETAILS NOT SHOWN SHALL CONFORM TO STANDARD DETAIL DRAWING FOR CONCRETE BASES, TYPE 1,2 & 5

CONCRETE BASES TYPE 3 MODIFIED

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION DETAIL	SHEET 15	E

2

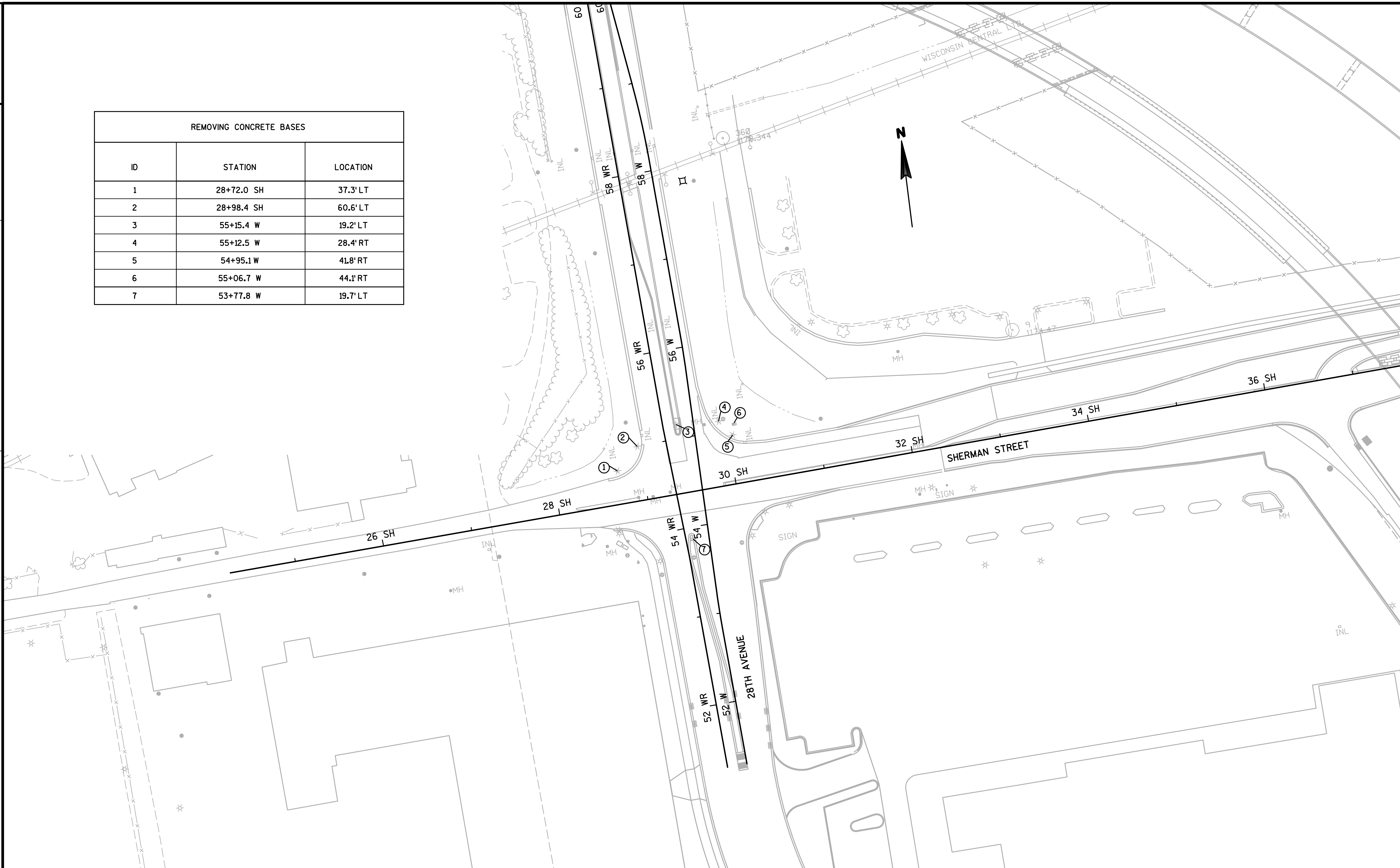
REMOVING CONCRETE BASES		
ID	STATION	LOCATION
1	39+70.2 ST	2.6' LT
2	39+88.8 ST	39.9' LT
3	73+96.1 W	4.9' LT
4	74+27.3 W	37.5' RT
5	41+23.9 ST	37.4' LT
6	40+79.6 ST	48.3' RT
7	72+91.3 W	30.1' RT
8	72+92.7 W	15.3' LT
9	72+69.3 W	56.2' LT
10	39+48.4 ST	43.6' RT



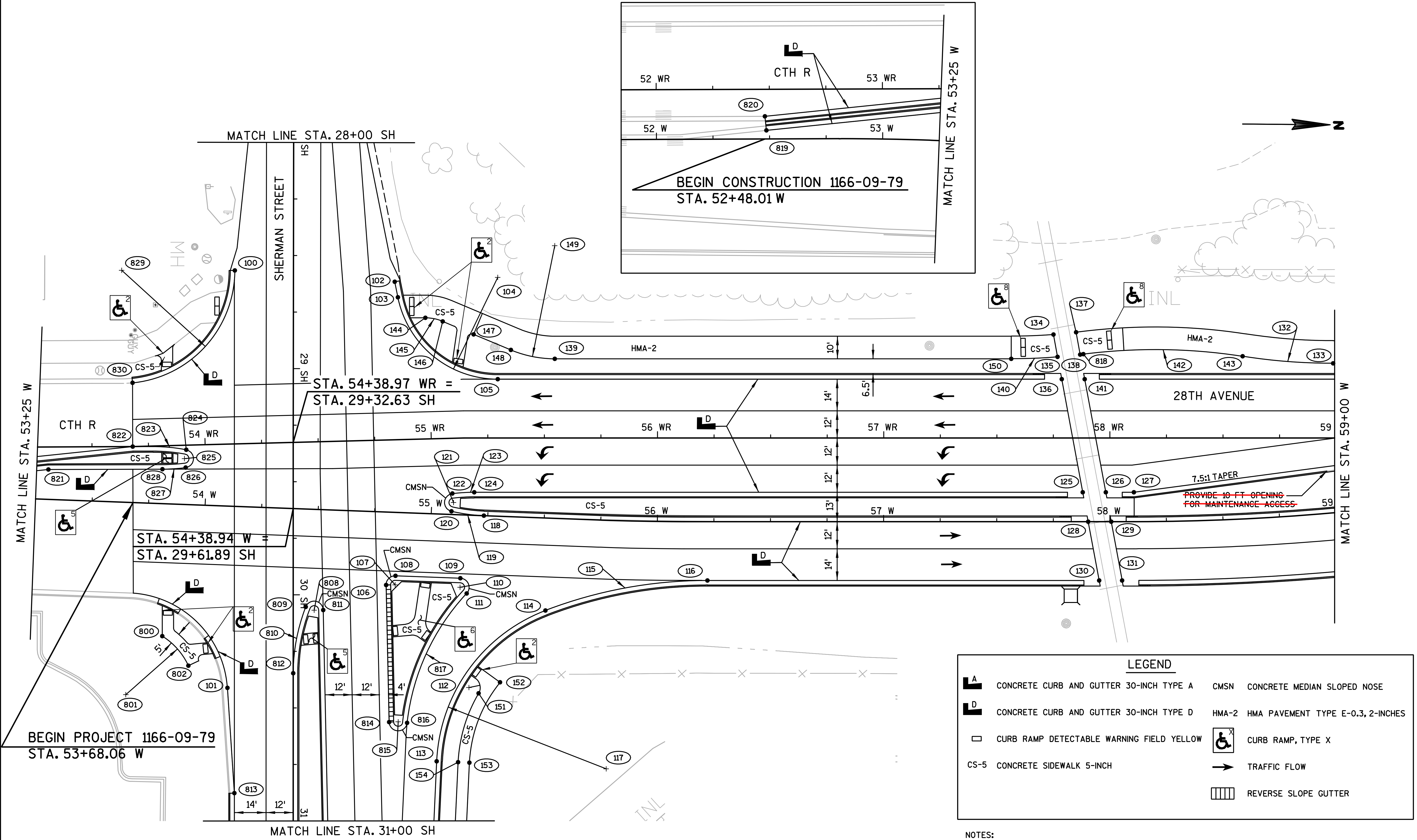
PROJECT NO: 6999-09-73	HWY: STEWART AVENUE	COUNTY: MARATHON	TRAFFIC SIGNAL/LIGHTING REMOVAL DETAIL	SHEET 16	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021008_cd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

REMOVING CONCRETE BASES		
ID	STATION	LOCATION
1	28+72.0 SH	37.3' LT
2	28+98.4 SH	60.6' LT
3	55+15.4 W	19.2' LT
4	55+12.5 W	28.4' RT
5	54+95.1 W	41.8' RT
6	55+06.7 W	44.1' RT
7	53+77.8 W	19.7' LT



PROJECT NO: 1166-09-79 | HWY: STEWART AVENUE | COUNTY: MARATHON | TRAFFIC SIGNAL/LIGHTING REMOVAL DETAIL | SHEET 17 | E



LEGEND

A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CMSN	CONCRETE MEDIAN SLOPED NOSE
D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	HMA-2	HMA PAVEMENT TYPE E-0.3, 2-INCHES
▭	CURB RAMP DETECTABLE WARNING FIELD YELLOW	X	CURB RAMP, TYPE X
CS-5	CONCRETE SIDEWALK 5-INCH	→	TRAFFIC FLOW
			REVERSE SLOPE GUTTER

NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.

DATA TABLE

POINT NO.	STATION		OFFSET	STATION		OFFSET	STATION		OFFSET	RADIUS
100	---	---	---	54+15.14	WR	-76.66	28+56.68	SH	26.00	---
101	54+12.84	W	80.32	---	---	---	30+41.17	SH	29.10	---
102	---	---	---	54+85.70	WR	-69.81	28+61.52	SH	-44.73	---
103	---	---	---	54+86.89	WR	-62.93	28+68.37	SH	-46.11	---
104	---	---	---	55+29.38	WR	-71.00	28+59.46	SH	-90.22	45.00
105	---	---	---	55+29.38	WR	-26.00	29.04.46	SH	-90.32	---
106	54+81.23	W	32.24	---	---	---	29+95.69	SH	-41.04	---
107	54+85.22	W	32.00	---	---	---	29+95.60	SH	-45.04	4.00
108	54+85.22	W	28.00	---	---	---	29+91.61	SH	-45.19	---
109	55+13.93	W	28.00	---	---	---	29+92.69	SH	-73.88	---
110	55+13.93	W	32.00	---	---	---	29+96.68	SH	-73.73	4.00
111	55+16.95	W	34.62	---	---	---	29+99.41	SH	-76.65	---
112	55+19.50	W	76.19	---	---	---	30+41.05	SH	-77.64	5.00
113	55+06.47	W	109.27	---	---	---	30+73.61	SH	-63.37	--
114	55+52.00	W	40.84	---	---	---	30+06.95	SH	-111.44	---
115	56+22.14	W	226.00	---	---	---	---	---	---	200.00
116	56.22.14	W	26.00	---	---	---	---	---	---	---
117	55+80.77	W	109.83	---	---	---	30+76.97	SH	-138.30	75.00
118	55+23.29	W	0.00	55+23.29	WR	34.38	---	---	---	---
119	55+23.29	W	-75.00	55+26.09	WR	-40.56	---	---	---	75.00
120	55+08.87	W	-1.40	55+08.08	WR	32.29	---	---	---	---
121	55+09.64	W	-5.32	55+09.10	WR	28.43	---	---	---	4.00
122	55+09.00	W	-9.27	55+08.72	WR	24.44	---	---	---	---
123	55+21.62	W	69.72	55+19.01	WR	104.00	---	---	---	75
124	55+18.63	W	-10.22	55+19.01	WR	24.00	---	---	---	---
125	57+88.03	W	-13.00	57+87.97	WR	24.00	---	---	---	---
126	57+98.19	W	-13.00	57+98.14	WR	24.00	---	---	---	---
127	58+10.61	W	-13.00	58+10.57	WR	24.00	---	---	---	---
128	57+90.44	W	0.00	57+90.39	WR	37.00	---	---	---	---
129	58+00.61	W	0.00	58+00.56	WR	37.00	---	---	---	---
130	57+95.27	W	26.00	---	---	---	---	---	---	---
131	58+05.44	W	26.00	---	---	---	---	---	---	---
132	---	---	---	58+98.68	WR	-293.00	---	---	---	260.00
133	---	---	---	58+98.68	WR	-33.00	---	---	---	
134	---	---	---	57+75.02	WR	-45.73	---	---	---	---
135	---	---	---	57+76.86	WR	-35.84	---	---	---	---
136	---	---	---	57+78.68	WR	-26.00	---	---	---	---
137	---	---	---	57+85.01	WR	-46.72	---	---	---	---
138	---	---	---	57+86.84	WR	-36.86	---	---	---	---
139	---	---	---	55+54.59	WR	-35.00	---	---	---	---
140	---	---	---	57+56.36	WR	-285.00	---	---	---	250.00
141	---	---	---	57+88.86	WR	-26.00	---	---	---	---
142	---	---	---	58+20.14	WR	210.92	---	---	---	250.00
143	---	---	---	58+58.64	WR	-36.10	---	---	---	---
144	---	---	---	54+98.77	WR	-53.55	---	---	---	---
145	---	---	---	54+98.20	WR	-33.55	---	---	---	---
146	---	---	---	55+06.42	WR	-51.79	---	---	---	---
147	---	---	---	55+18.73	WR	-45.82	---	---	---	---
148	---	---	---	55+35.24	WR	-38.90	---	---	---	---
149	---	---	---	55+54.59	WR	-85.00	---	---	---	50.00
150	---	---	---	57+56.36	WR	-35.00	---	---	---	
151	---	---	---	---	---	---	30+43.60	SH	-81.94	---
152	---	---	---	---	---	---	30+38.72	SH	-91.43	---
153	---	---	---	---	---	---	30+74.27	SH	-77.86	---
154	---	---	---	---	---	---	30+74.04	SH	-72.86	---
800	53+83.25	W	58.53	---	---	---	30+18.28	SH	57.86	---
801	53+68.09	W	85.00	---	---	---	30+44.16	SH	74.00	30.50
802	53+95.26	W	71.15	---	---	---	30+31.35	SH	46.32	---
808	54+49.91	W	44.57	---	---	---	30+06.84	SH	-9.28	4.00
809	54+46.13	W	43.25	---	---	---	30+05.37	SH	-5.56	---
810	---	---	---	---	---	---	30+34.67	SH	-80.00	80.00
811	54+53.90	W	44.33	---	---	---	30+06.75	SH	-13.28	---
812	---	---	---	---	---	---	30+34.67	SH	0.00	---
813	---	---	---	---	---	---	30+87.66	SH	26.00	---
814	54+84.82	W	92.74	---	---	---	30+56.28	SH	-42.36	---
815	54+88.82	W	92.5	---	---	---	30+56.20	SH	-46.36	4.00
816	54+92.81	W	92.79	---	---	---	30+56.64	SH	-50.34	---
817	55+90.89	W	100.24	---	---	---	30+67.68	SH	-149.73	100.00
818	---	---	---	57+88.25	WR	-37.04	---	---	---	---
819	52+48.63	W	-3.80	52+48.65	WR	18.20	---	---	---	---
820	52+48.01	W	-10.00	52+48.03	WR	12.00	---	---	---	---
821	53+30.14	W	-13.19	53+30.68	WR	10.00	---	---	---	---
822	53+67.05	W	-24.72	53+68.03	WR	0.00	---	---	---	---
823	53+79.09	W	49.85	53+75.31	WR	75.19	---	---	---	75.00
824	53+90.71	W	-24.24	53+91.61	WR	1.98	29+35.85	SH	47.29	---
825	53+90.89	W	-20.29	53+90.74	WR	5.89	29+39.77	SH	48.06	4.00
826	53+90.77	W	-16.35	53+91.17	WR	9.86	29+43.74	SH	47.53	---
827	53+77.21	W	-95.19	53+82.66	WR	-69.68	---	---	---	80.00
828	53+80.49	W	-15.26	53+80.85	WR	10.30	---	---	---	---
829	53+59.22	W	-102.46	53+63.39	WR	-78.00	28+56.68	SH	76.00	50.00
830	53+65.89	W	-52.91	53+68.67	WR	-28.20	29+06.44	SH	71.08	---

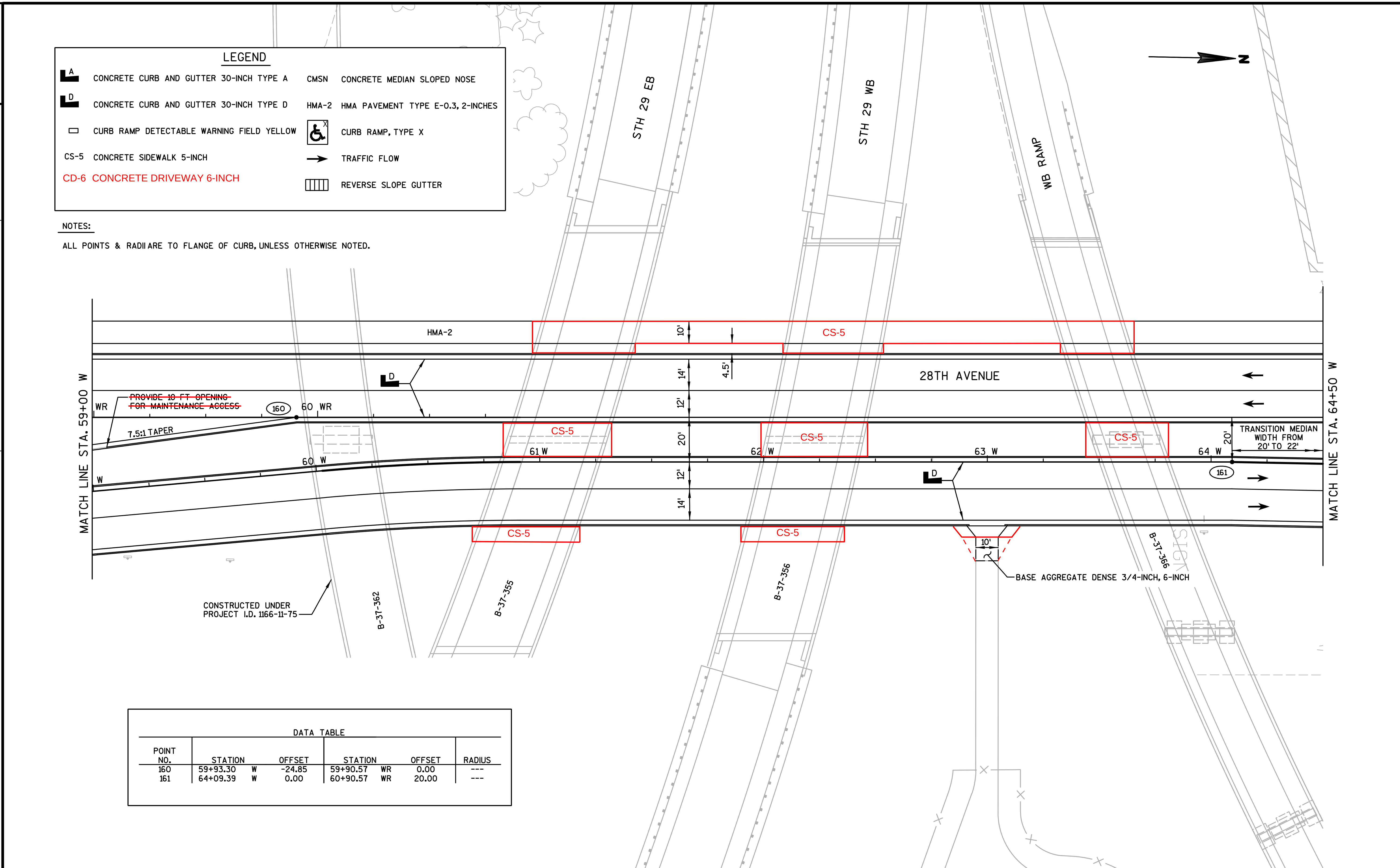
PROJECT NO:1166-09-79 | HWY:USH 51/STH 29 | COUNTY:MARATHON | PLAN DETAIL - 28TH AVENUE (W) | SHEET 20 | E

LEGEND

A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CMSN	CONCRETE MEDIAN SLOPED NOSE
D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	HMA-2	HMA PAVEMENT TYPE E-0.3, 2-INCHES
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	X	CURB RAMP, TYPE X
CS-5	CONCRETE SIDEWALK 5-INCH		TRAFFIC FLOW
CD-6	CONCRETE DRIVEWAY 6-INCH		REVERSE SLOPE GUTTER

NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.



DATA TABLE

POINT NO.	STATION		OFFSET	STATION		OFFSET	RADIUS
160	59+93.30	W	-24.85	59+90.57	WR	0.00	---
161	64+09.39	W	0.00	60+90.57	WR	20.00	---

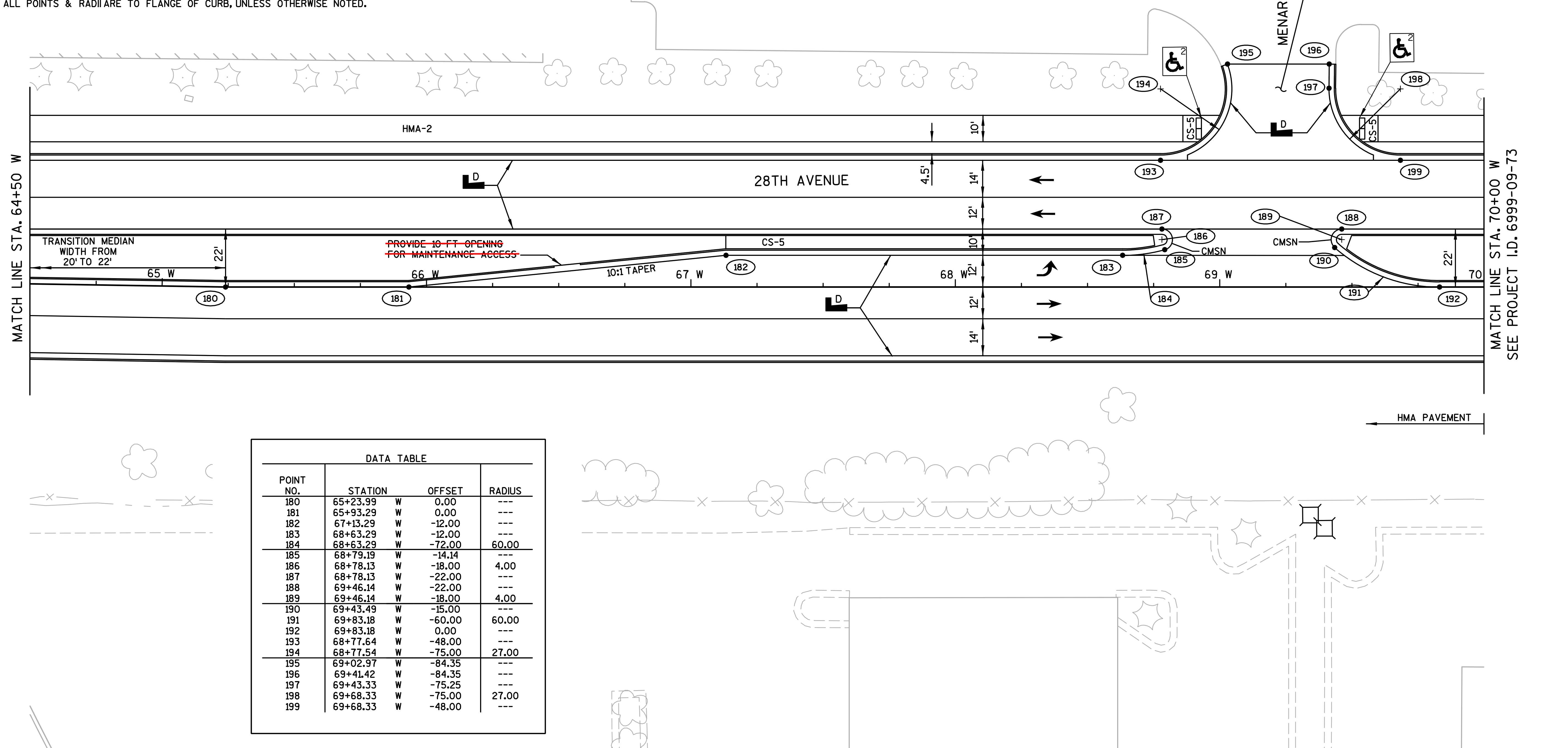
2

LEGEND

A (symbol)	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CMSN	CONCRETE MEDIAN SLOPED NOSE
D (symbol)	CONCRETE CURB AND GUTTER 30-INCH TYPE D	HMA-2	HMA PAVEMENT TYPE E-0.3, 2-INCHES
▭	CURB RAMP DETECTABLE WARNING FIELD YELLOW	X (symbol)	CURB RAMP, TYPE X
CS-5	CONCRETE SIDEWALK 5-INCH	→	TRAFFIC FLOW
		(symbol)	REVERSE SLOPE GUTTER

NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.



DATA TABLE

POINT NO.	STATION		OFFSET	RADIUS
180	65+23.99	W	0.00	---
181	65+93.29	W	0.00	---
182	67+13.29	W	-12.00	---
183	68+63.29	W	-12.00	---
184	68+63.29	W	-72.00	60.00
185	68+79.19	W	-14.14	---
186	68+78.13	W	-18.00	4.00
187	68+78.13	W	-22.00	---
188	69+46.14	W	-22.00	---
189	69+46.14	W	-18.00	4.00
190	69+43.49	W	-15.00	---
191	69+83.18	W	-60.00	60.00
192	69+83.18	W	0.00	---
193	68+77.64	W	-48.00	---
194	68+77.54	W	-75.00	27.00
195	69+02.97	W	-84.35	---
196	69+41.42	W	-84.35	---
197	69+43.33	W	-75.25	---
198	69+68.33	W	-75.00	27.00
199	69+68.33	W	-48.00	---

2

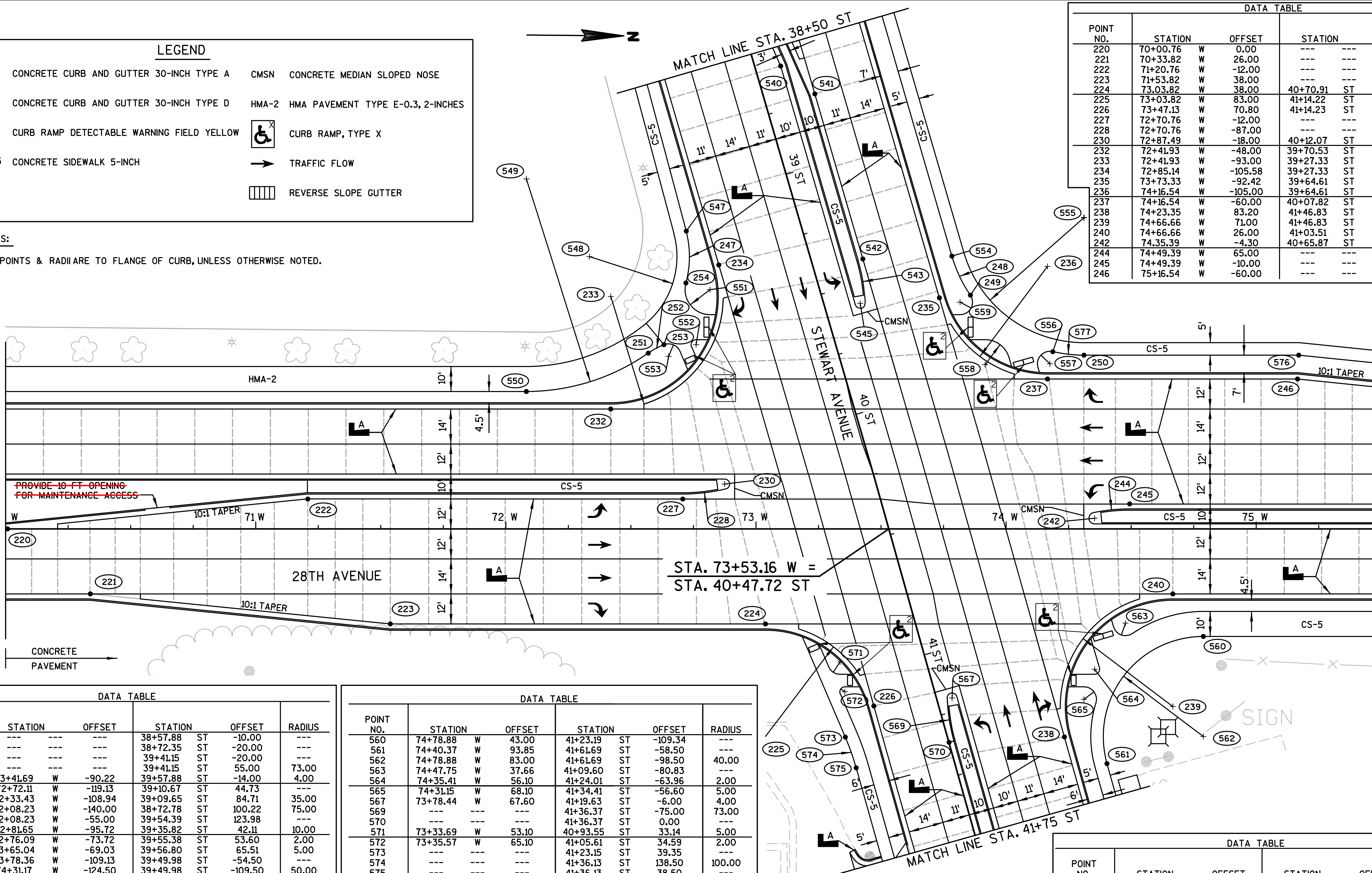
2

LEGEND

A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CMSN	CONCRETE MEDIAN SLOPED NOSE
D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	HMA-2	HMA PAVEMENT TYPE E-0.3, 2-INCHES
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	X	CURB RAMP, TYPE X
CS-5	CONCRETE SIDEWALK 5-INCH		TRAFFIC FLOW
			REVERSE SLOPE GUTTER

NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.



DATA TABLE

POINT NO.	STATION		OFFSET	STATION		OFFSET	RADIUS
220	70+00.76	W	0.00	---	---	---	---
221	70+33.82	W	26.00	---	---	---	---
222	71+20.76	W	-12.00	---	---	---	---
223	71+53.82	W	38.00	---	---	---	---
224	73.03.82	W	38.00	40+70.91	ST	57.90	--
225	73+03.82	W	83.00	41+14.22	ST	70.00	45.00
226	73+47.13	W	70.80	41+14.23	ST	25.00	---
227	72+70.76	W	-12.00	---	---	---	---
228	72+70.76	W	-87.00	---	---	---	73.00
230	72+87.49	W	-18.00	40+12.07	ST	58.22	4.00
232	72+41.93	W	-48.00	39+70.53	ST	93.58	---
233	72+41.93	W	-93.00	39+27.33	ST	81.00	45.00
234	72+85.14	W	-105.58	39+27.33	ST	36.00	---
235	73+73.33	W	-92.42	39+64.61	ST	-45.00	---
236	74+16.54	W	-105.00	39+64.61	ST	-90.00	45.00
237	74+16.54	W	-60.00	40+07.82	ST	-77.42	---
238	74+23.35	W	83.20	41+46.83	ST	-45.00	---
239	74+66.66	W	71.00	41+46.83	ST	-90.00	45.00
240	74+66.66	W	26.00	41+03.51	ST	-102.20	---
242	74.35.39	W	-4.30	40+65.87	ST	-80.31	4.30
244	74+49.39	W	65.00	---	---	---	73.00
245	74+49.39	W	-10.00	---	---	---	---
246	75+16.54	W	-60.00	---	---	---	---

DATA TABLE

POINT NO.	STATION		OFFSET	STATION		OFFSET	RADIUS
540	---	---	---	38+57.88	ST	-10.00	---
541	---	---	---	38+72.35	ST	-20.00	---
542	---	---	---	39+41.15	ST	-20.00	---
543	---	---	---	39+41.15	ST	55.00	73.00
545	73+41.69	W	-90.22	39+57.88	ST	-14.00	4.00
547	72+72.11	W	-119.13	39+10.67	ST	44.73	---
548	72+33.43	W	-108.94	39+09.65	ST	84.71	35.00
549	72+08.23	W	-140.00	38+72.78	ST	100.22	75.00
550	72+08.23	W	-55.00	39+54.39	ST	123.98	---
551	72+81.65	W	-95.72	39+35.82	ST	42.11	10.00
552	72+76.09	W	-73.72	39+55.38	ST	53.60	2.00
553	73+65.04	W	-69.03	39+56.80	ST	65.51	5.00
554	73+78.36	W	-109.13	39+49.98	ST	-54.50	---
555	74+31.17	W	-124.50	39+49.98	ST	-109.50	50.00
556	74+18.69	W	-70.94	39+97.92	ST	-82.54	---
557	74+17.55	W	-66.07	40+02.28	ST	-80.09	5.00
558	73+91.62	W	-65.72	39+95.36	ST	-55.09	10.00
559	73.81.58	W	-90.72	39+64.61	ST	-45.00	5.00

DATA TABLE

POINT NO.	STATION		OFFSET	STATION		OFFSET	RADIUS
560	74+78.88	W	43.00	41+23.19	ST	-109.34	---
561	74+40.37	W	93.85	41+61.69	ST	-58.50	---
562	74+78.88	W	83.00	41+61.69	ST	-98.50	40.00
563	74+47.75	W	37.66	41+09.60	ST	-80.83	---
564	74+35.41	W	56.10	41+24.01	ST	-63.96	2.00
565	74+31.15	W	68.10	41+34.41	ST	-56.60	5.00
567	73+78.44	W	67.60	41+19.63	ST	-6.00	4.00
569	---	---	---	41+36.37	ST	-75.00	73.00
570	---	---	---	41+36.37	ST	0.00	---
571	73+33.69	W	53.10	40+93.55	ST	33.14	5.00
572	73+35.57	W	65.10	41+05.61	ST	34.59	2.00
573	---	---	---	41+23.15	ST	39.35	---
574	---	---	---	41+36.13	ST	138.50	100.00
575	---	---	---	41+36.13	ST	38.50	---
576	75+17.01	W	-69.50	---	---	---	---
577	74+31.17	W	-124.50	39+49.98	ST	-109.50	55.00

DATA TABLE

POINT NO.	STATION		OFFSET	STATION		OFFSET	RADIUS
247	72+33.43	W	-108.94	39+09.65	ST	84.71	40.00
248	74+31.17	W	-124.50	39+49.98	ST	-109.50	55.00
249	73+85.72	W	-93.54	39+67.00	ST	-57.20	---
250	74+31.17	W	-69.50	40.02.79	ST	-94.13	---
251	72+56.90	W	-70.32	39+53.29	ST	72.97	---
252	72+74.08	W	-45.72	39+81.71	ST	63.35	30.00
253	72+63.23	W	-73.69	39+51.82	ST	65.95	---
254	72+72.01	W	-98.36	39+30.58	ST	50.63	---

2

2

LEGEND

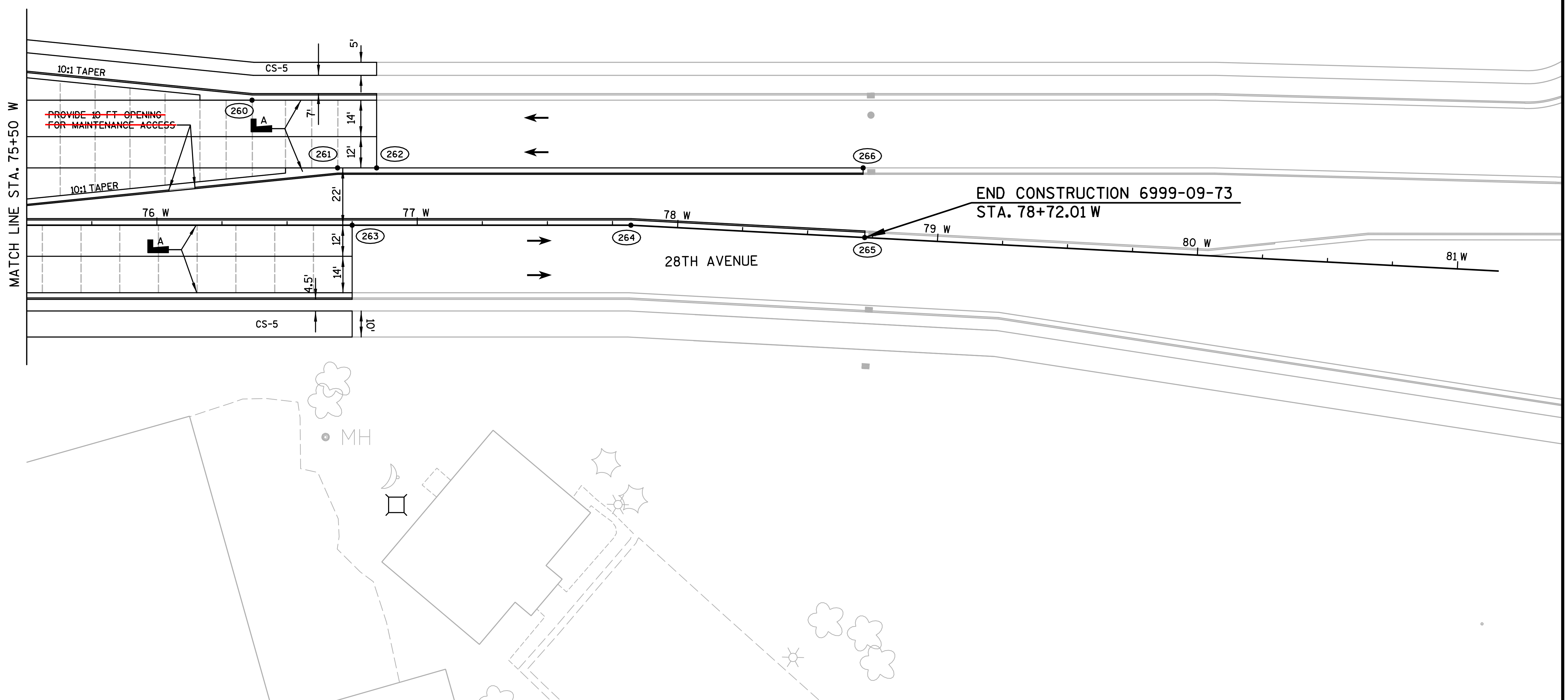
A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CMSN	CONCRETE MEDIAN SLOPED NOSE
D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	HMA-2	HMA PAVEMENT TYPE E-0.3, 2-INCHES
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	X	CURB RAMP, TYPE X
CS-5	CONCRETE SIDEWALK 5-INCH	→	TRAFFIC FLOW
			REVERSE SLOPE GUTTER

DATA TABLE

POINT NO.	STATION		OFFSET	RADIUS
260	76+36.54	W	-48.00	---
261	76+69.39	W	-22.00	---
262	76+84.39	W	-22.00	---
263	76+75.00	W	0.00	---
264	77+82.07	W	0.00	---
265	78+72.01	W	0.00	---
266	78+69.99	W	-26.69	---

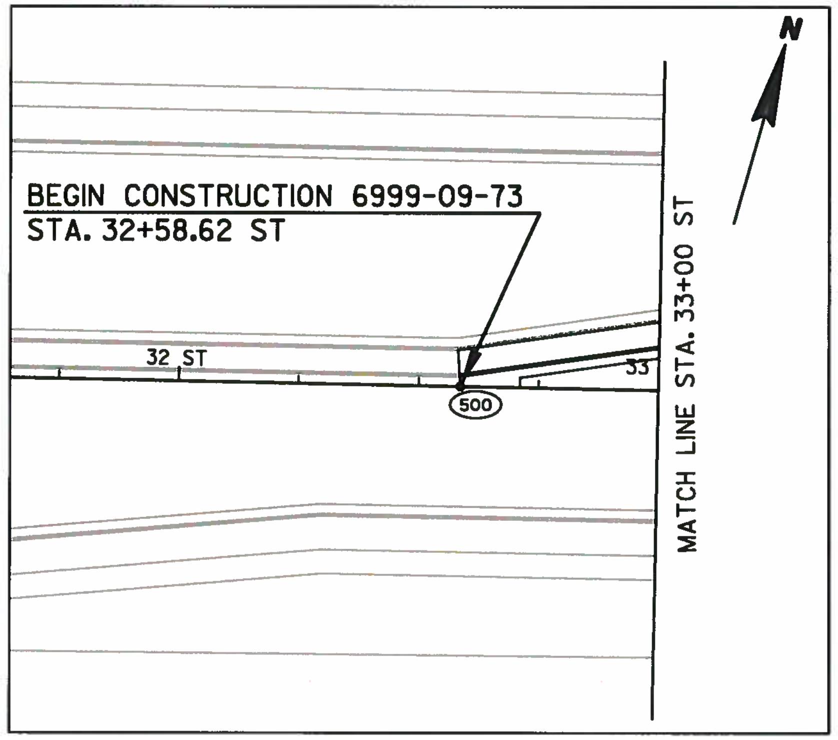
NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.



PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	PLAN DETAIL - 28TH AVENUE (W)	SHEET 24	E

2



POINT NO.	STATION	OFFSET	RADIUS
500	32+58.62 ST	0.00	---
501	33+33.63 ST	-12.00	---
502	34+40.00 ST	0.00	---
503	34+40.00 ST	11.00	---
505	35+24.54 ST	-17.00	5.00
507	35+00.00 ST	-22.00	---
508	35+00.00 ST	-47.00	---
509	35+49.54 ST	-47.00	---
510	35+49.54 ST	-69.00	22.00
511	35+71.54 ST	-69.00	---
512	35+99.81 ST	-68.22	---
513	36+21.80 ST	-67.50	22.00
514	36+21.07 ST	-45.50	---
515	35+49.57 ST	11.00	---
516	35+49.57 ST	25.00	---
517	35+49.57 ST	47.00	22.00
518	35+71.57 ST	47.21	---
519	35+74.78 ST	25.00	---
520	35+95.99 ST	48.20	---
521	36+18.06 ST	47.00	22.00
522	36+18.06 ST	25.00	---
524	36+46.56 ST	-4.00	4.00
526	37+17.33 ST	25.00	---
527	37+82.35 ST	-8.00	---
528	37+82.88 ST	0.00	---
529	38+27.33 ST	36.00	---
530	35+96.08 ST	46.05	---
531	33+59.01 ST	-22.00	---
533	36+36.24 ST	-45.00	---
534	36+35.83 ST	-20.00	---
535	36+02.37 ST	35.43	---
536	38+27.04 ST	42.85	---

DATA TABLE

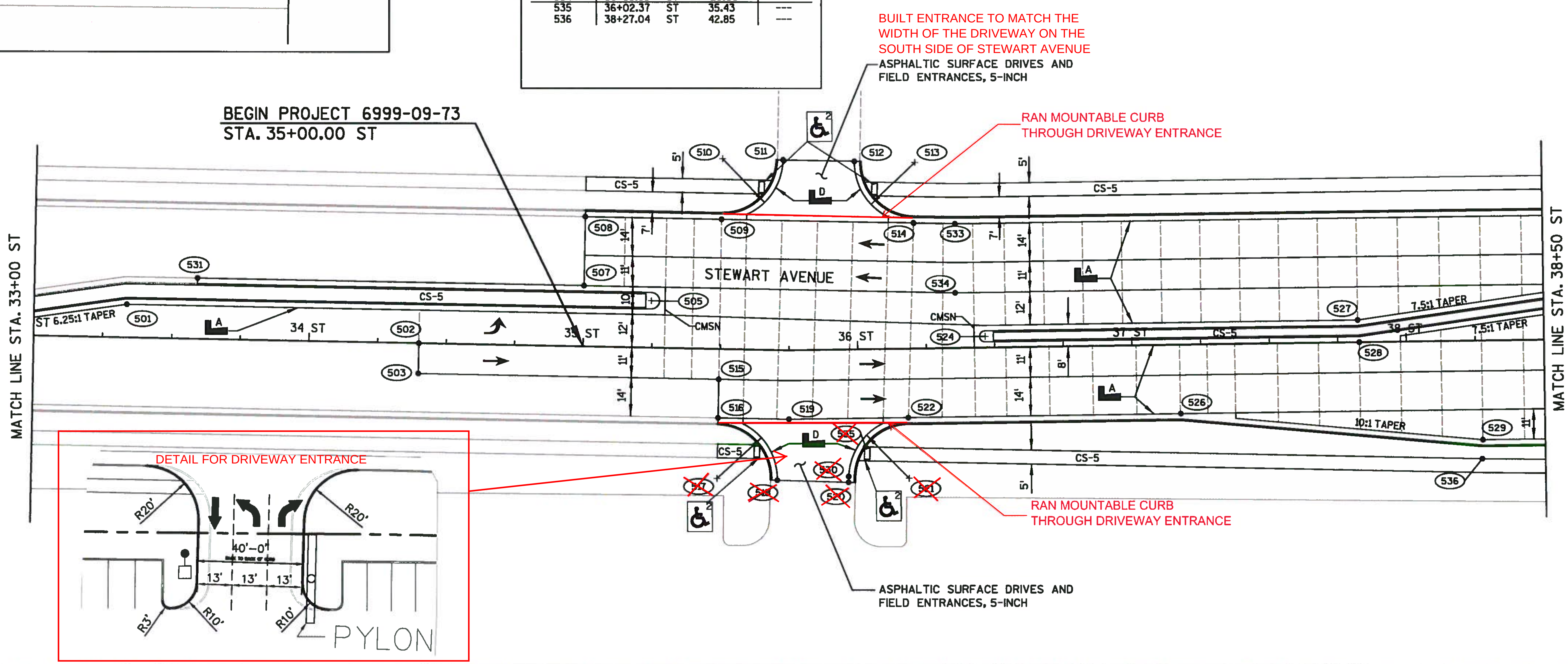
LEGEND

- A — CONCRETE CURB AND GUTTER 30-INCH TYPE A
- D — CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CS-5 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- HMA-2 — HMA PAVEMENT TYPE E-0.3, 2-INCHES
- CURB RAMP, TYPE X
- TRAFFIC FLOW
- REVERSE SLOPE GUTTER

NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.

2



LEGEND

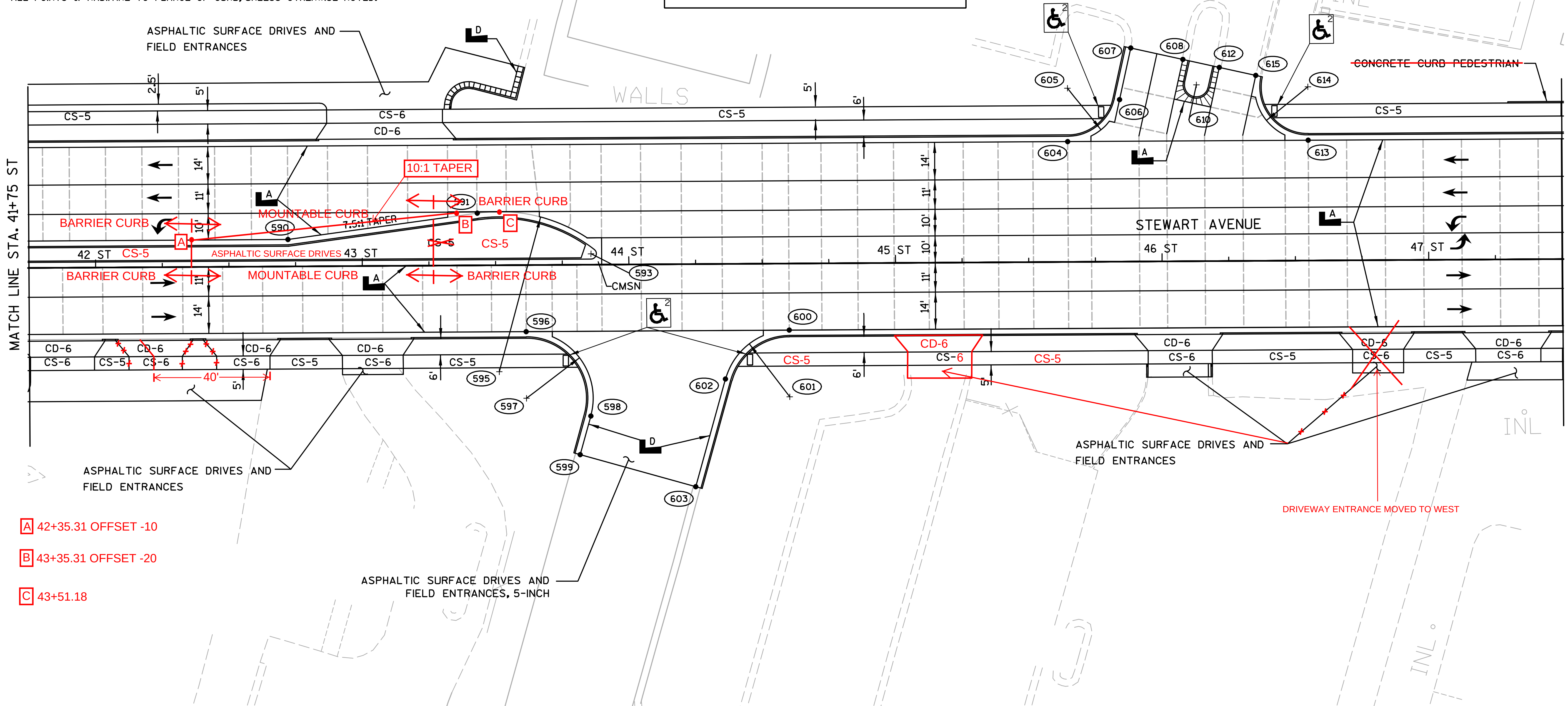
A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
▭	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CS-5	CONCRETE SIDEWALK 5-INCH
CMSN	CONCRETE MEDIAN SLOPED NOSE
HMA-2	HMA PAVEMENT TYPE E-0.3, 2-INCHES
X	CURB RAMP, TYPE X
→	TRAFFIC FLOW
	REVERSE SLOPE GUTTER

NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.

DATA TABLE

POINT NO.	STATION		OFFSET	RADIUS
590	42+72.19	ST	-10.00	---
591	43+43.24	ST	-19.47	---
593	43+85.81	ST	-4.00	4.00
595	43+51.17	ST	40.00	60.00
596	43+61.33	ST	25.00	---
597	43+61.33	ST	50.00	25.00
598	43+85.39	ST	56.79	---
599	43+81.32	ST	71.23	---
600	44+60.05	ST	25.00	---
601	44+60.05	ST	50.00	25.00
602	44+35.99	ST	43.21	---
603	44+24.63	ST	83.46	---
604	45+64.86	ST	-45.00	---
605	45+64.86	ST	-65.00	20.00
606	45+84.37	ST	-60.61	---
607	45+88.71	ST	-79.91	---
608	46+08.22	ST	-75.53	---
610	46+13.26	ST	-66.00	7.00
612	46+21.88	ST	-72.46	---
613	46+55.06	ST	-45.00	---
614	46+55.05	ST	-65.00	20.00
615	46+35.54	ST	-69.39	---



A 42+35.31 OFFSET -10

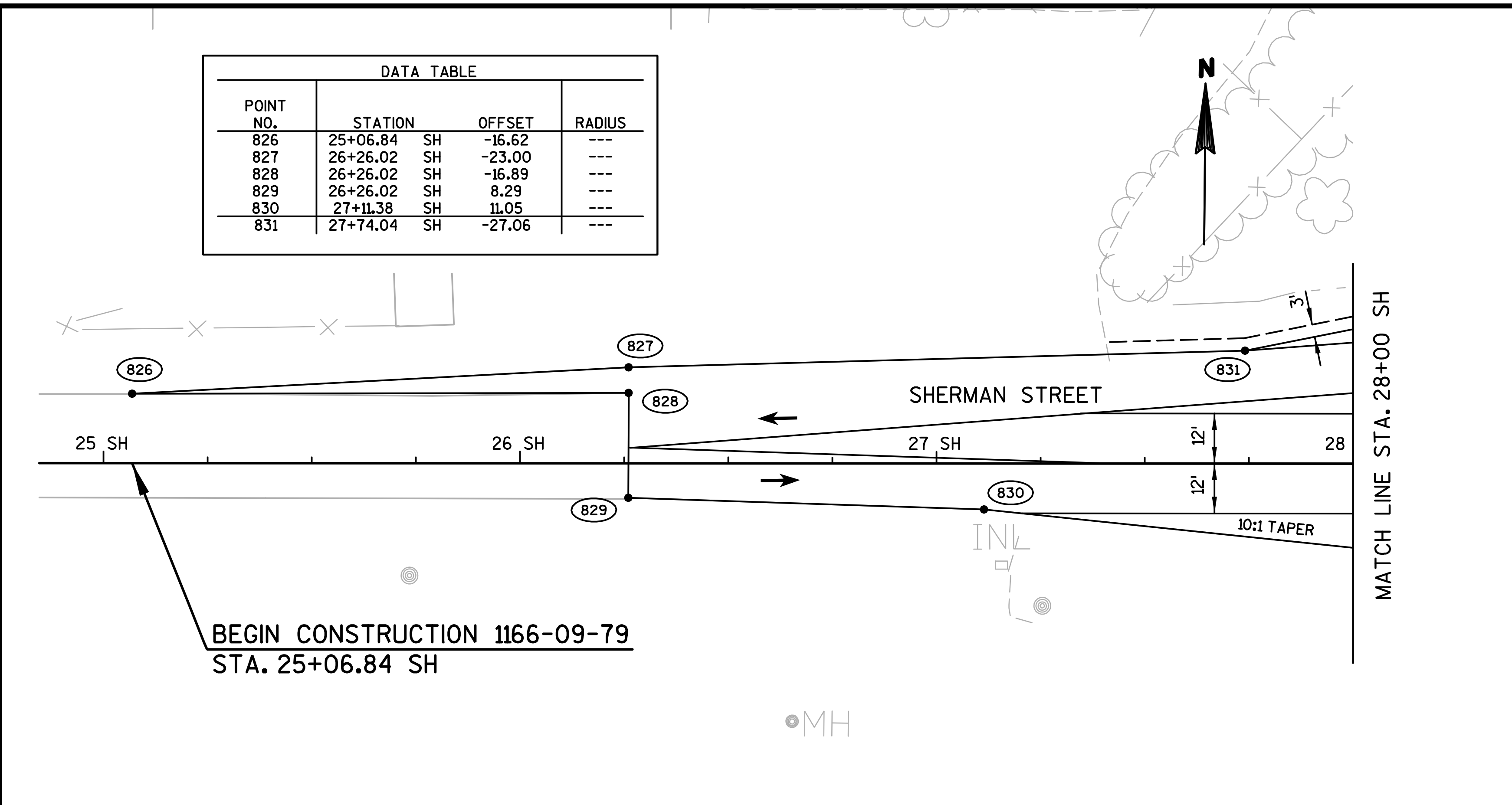
B 43+35.31 OFFSET -20

C 43+51.18

PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PLAN DETAIL - STEWART AVENUE (ST)	SHEET 26	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021208_pd.dgn PLOT DATE : 4/9/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



DATA TABLE

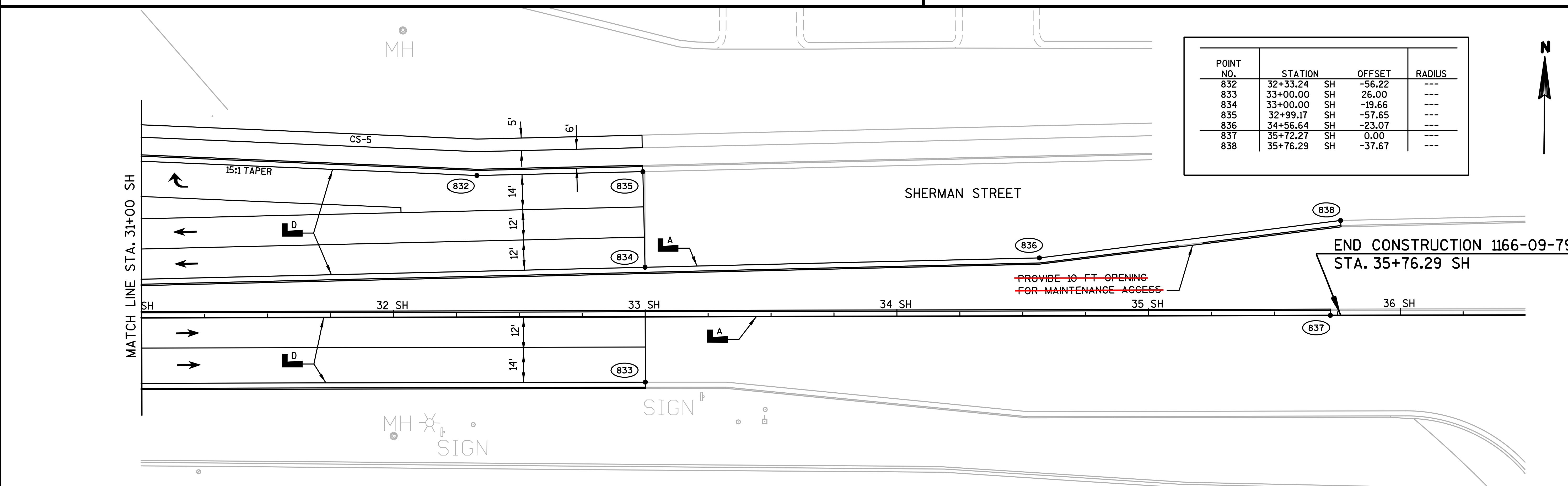
POINT NO.	STATION		OFFSET	RADIUS
826	25+06.84	SH	-16.62	---
827	26+26.02	SH	-23.00	---
828	26+26.02	SH	-16.89	---
829	26+26.02	SH	8.29	---
830	27+11.38	SH	11.05	---
831	27+74.04	SH	-27.06	---

LEGEND

- A — CONCRETE CURB AND GUTTER 30-INCH TYPE A
- D — CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CS-5 — CONCRETE SIDEWALK 5-INCH
- CMSN — CONCRETE MEDIAN SLOPED NOSE
- HMA-2 — HMA PAVEMENT TYPE E-0.3, 2-INCHES
- CURB RAMP, TYPE X
- TRAFFIC FLOW
- REVERSE SLOPE GUTTER

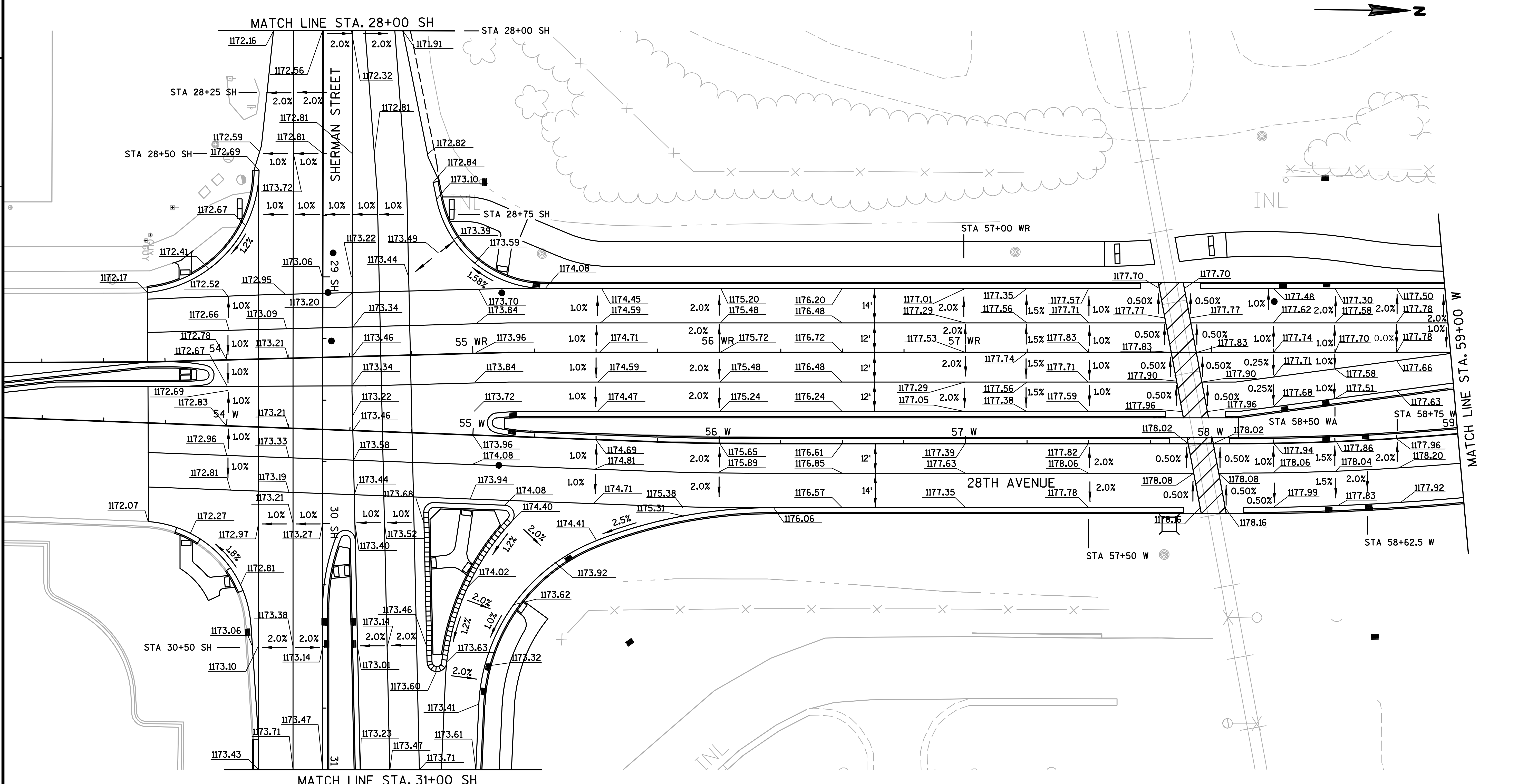
NOTES:

ALL POINTS & RADII ARE TO FLANGE OF CURB, UNLESS OTHERWISE NOTED.

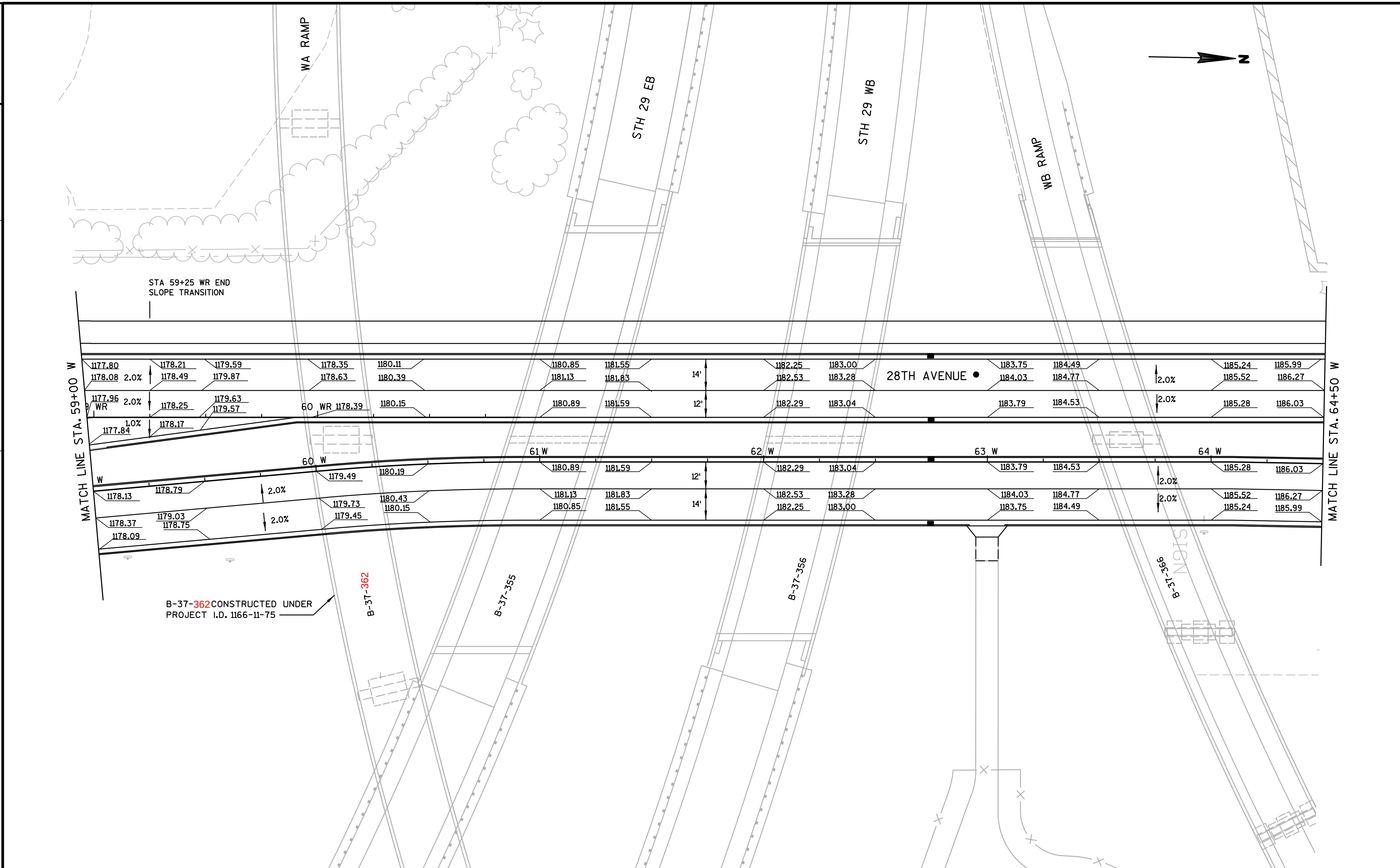


POINT NO.	STATION		OFFSET	RADIUS
832	32+33.24	SH	-56.22	---
833	33+00.00	SH	26.00	---
834	33+00.00	SH	-19.66	---
835	32+99.17	SH	-57.65	---
836	34+56.64	SH	-23.07	---
837	35+72.27	SH	0.00	---
838	35+76.29	SH	-37.67	---

PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PLAN DETAIL - SHERMAN STREET (SH)	SHEET 29	E



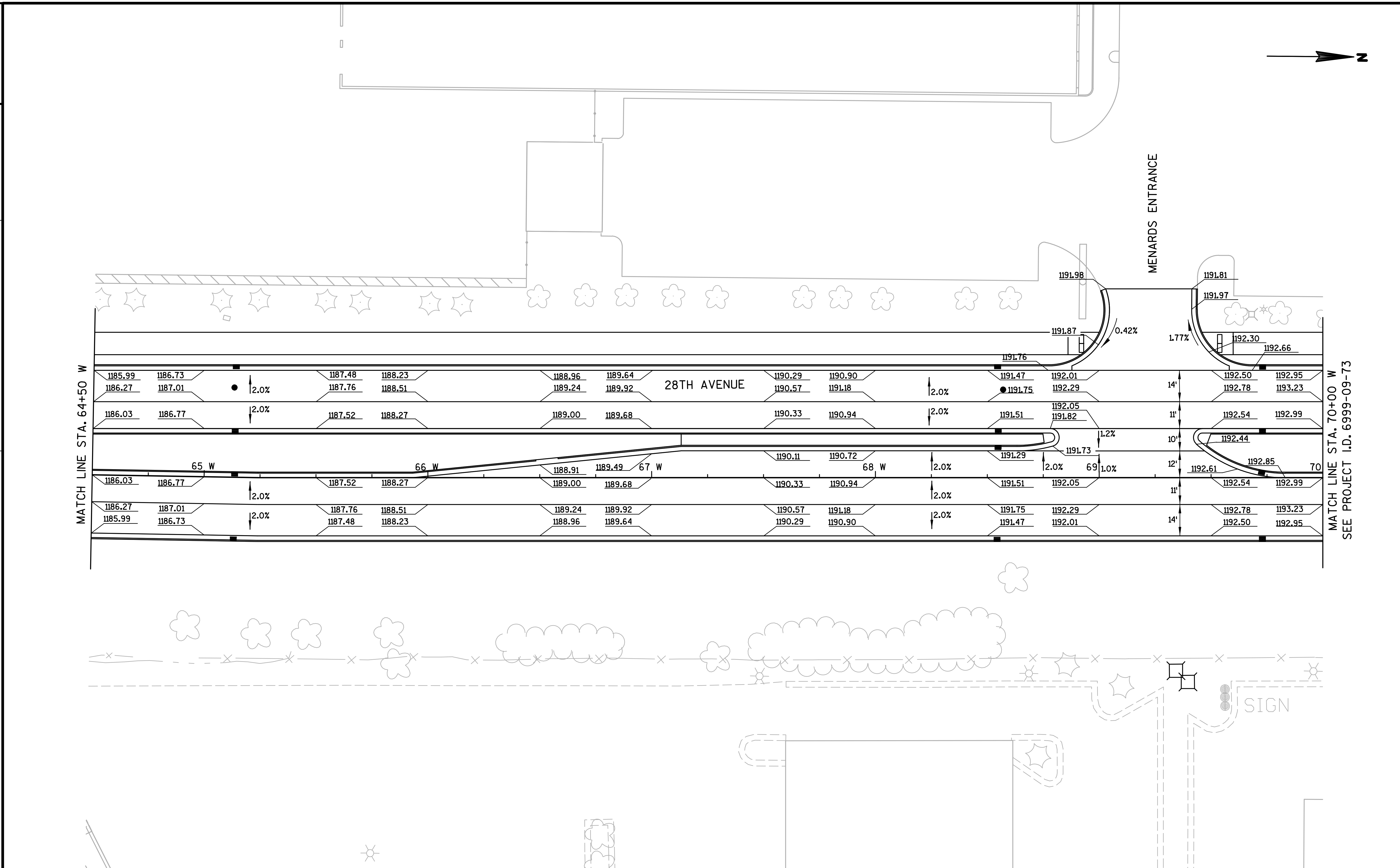
PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVING DETAIL - 28TH AVENUE (W)	SHEET 30	E



PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVING DETAIL - 28TH AVENUE (W)	SHEET 31	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021302_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

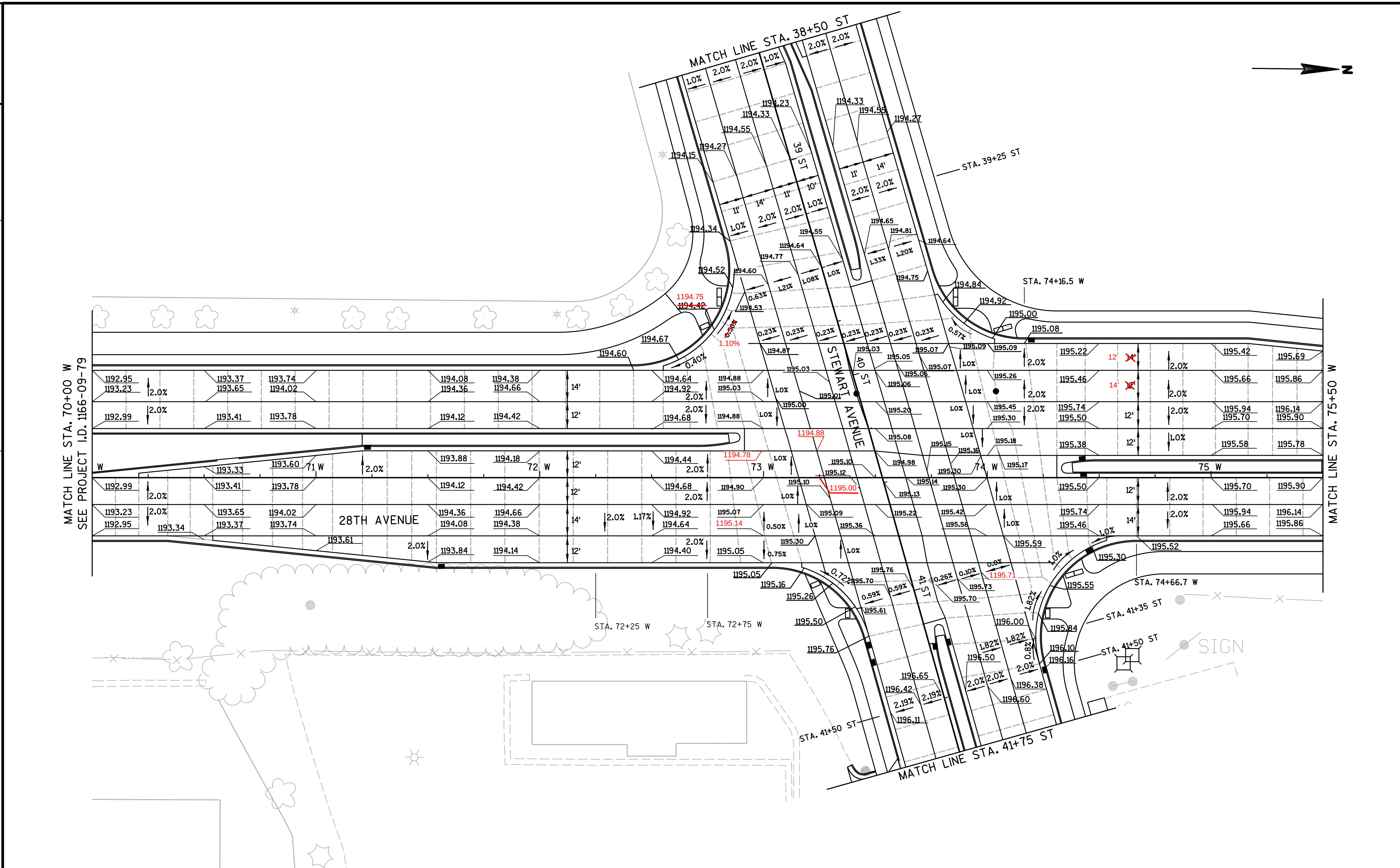
2



2

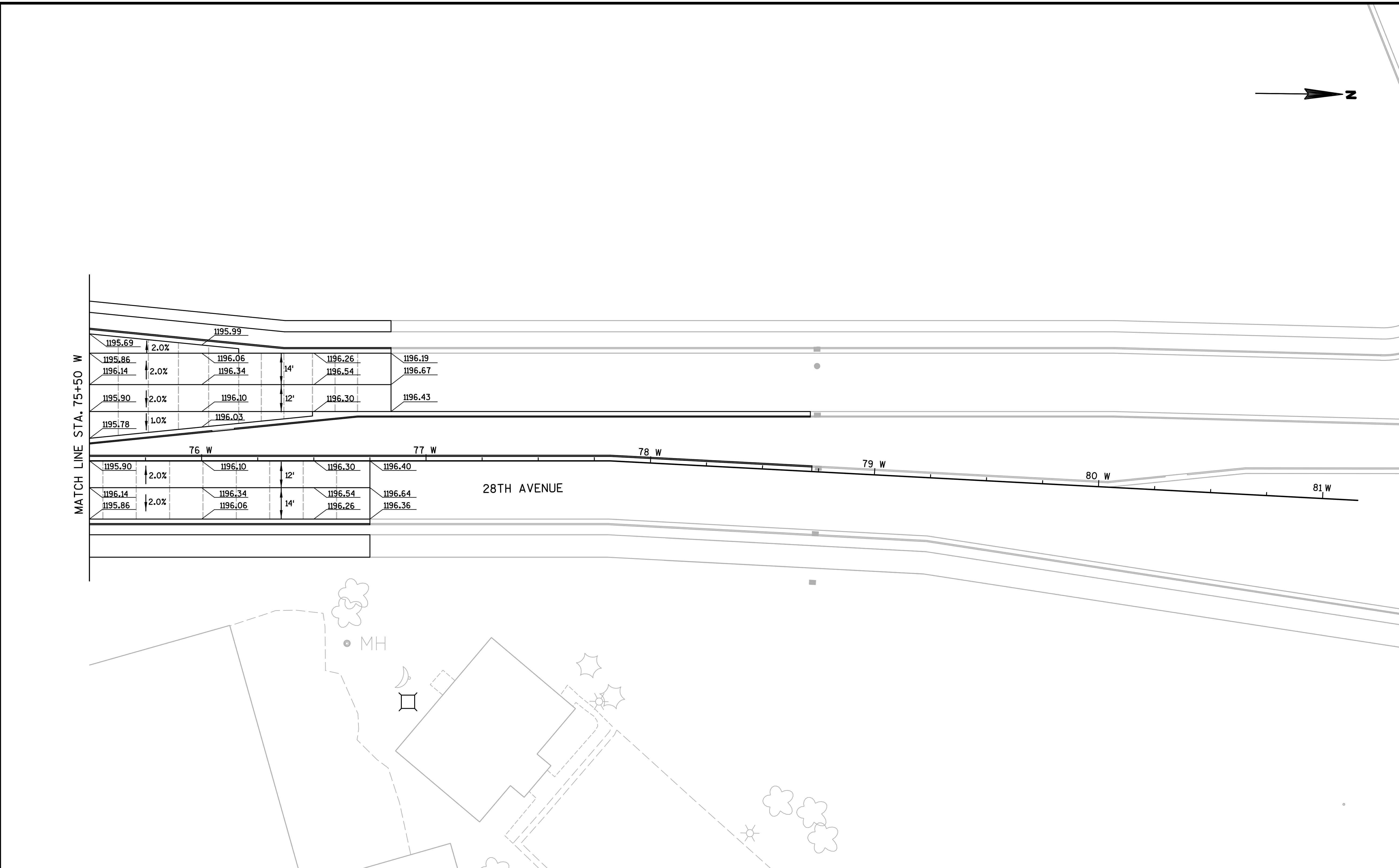
PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVING DETAIL - 28TH AVENUE (W)	SHEET	E

FILE NAME : s:\asai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021303_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVING DETAIL - 28TH AVENUE (W)	SHEET 33	E

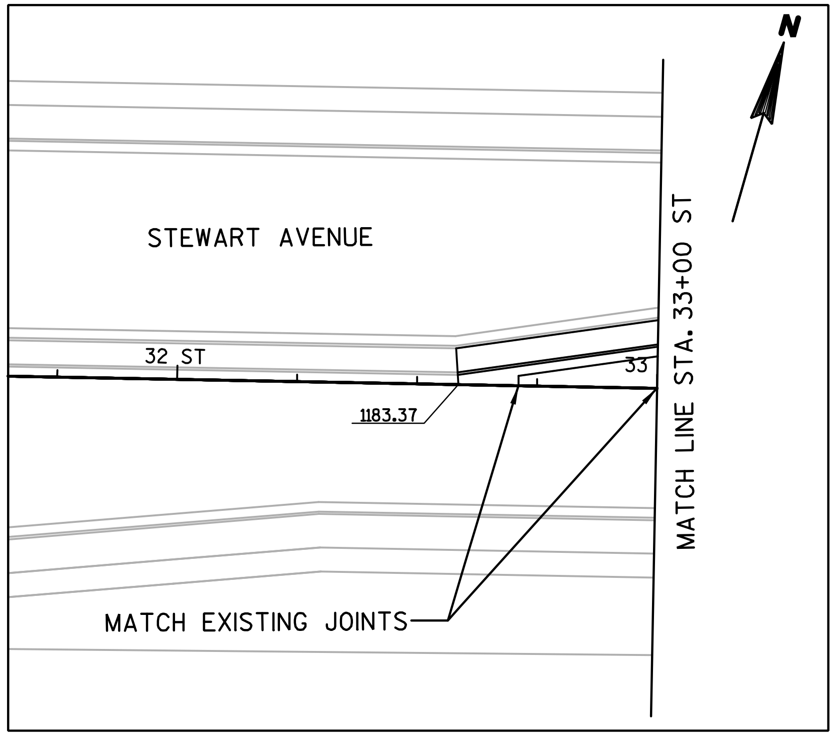
FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021304_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

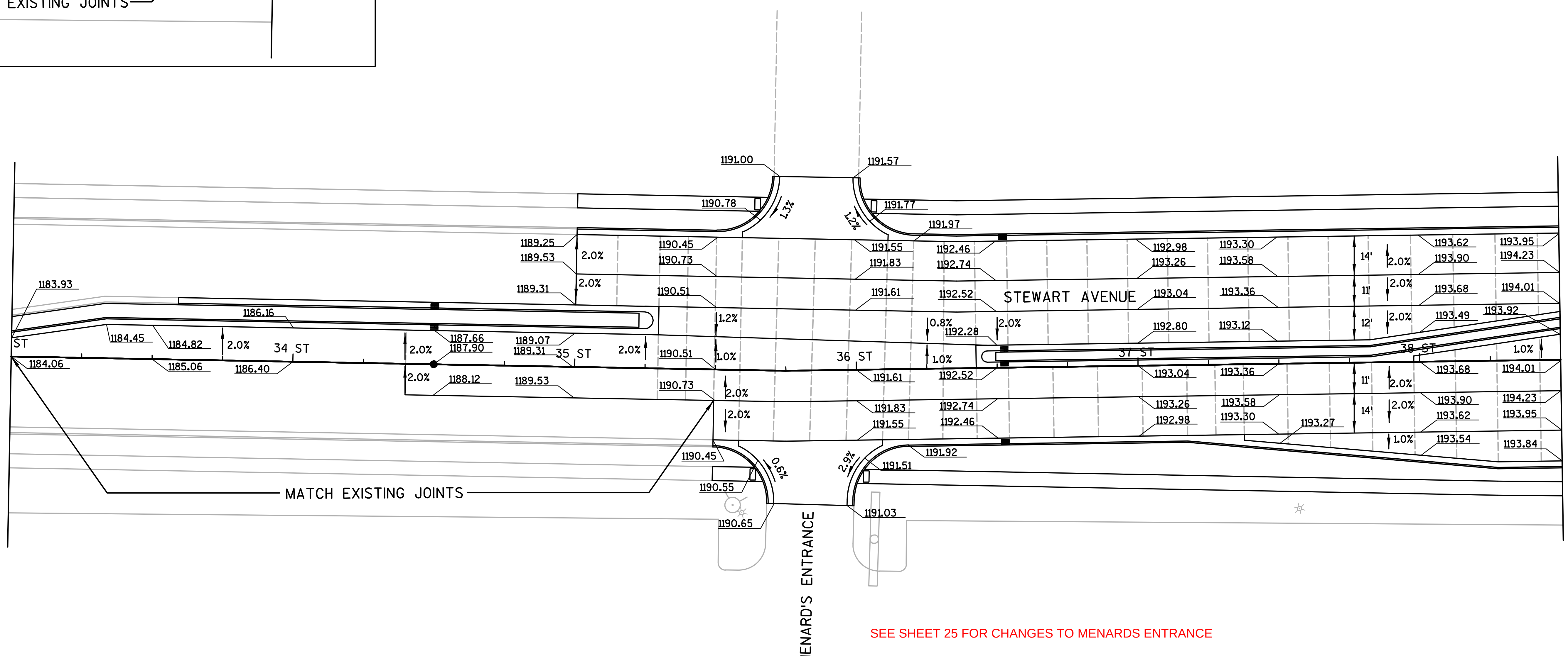


2

PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVING DETAIL - 28TH AVENUE (W)	SHEET 34	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021305_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

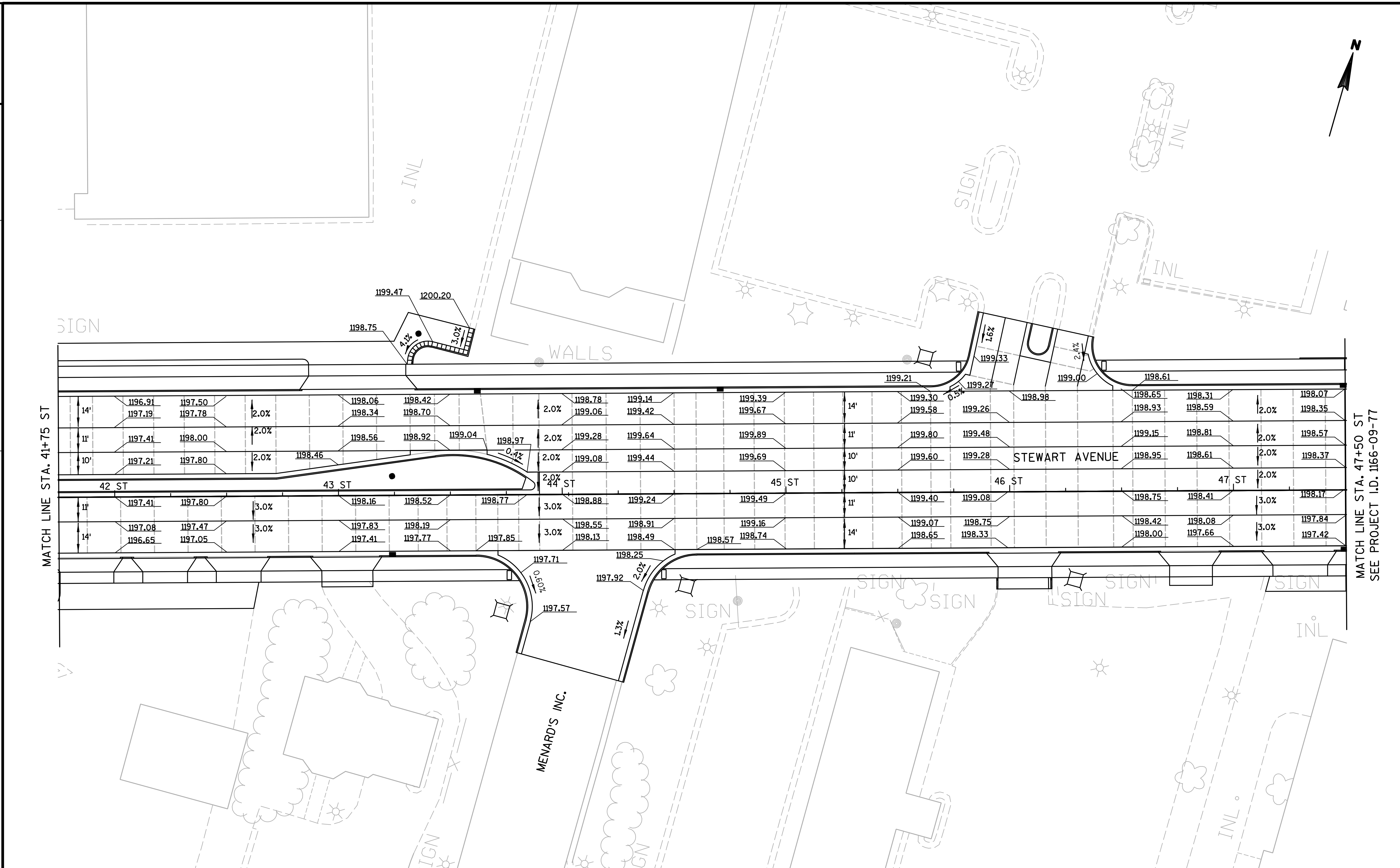




SEE SHEET 25 FOR CHANGES TO MENARDS ENTRANCE

PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PAVING DETAIL - STEWART AVENUE (ST)	SHEET 35	E

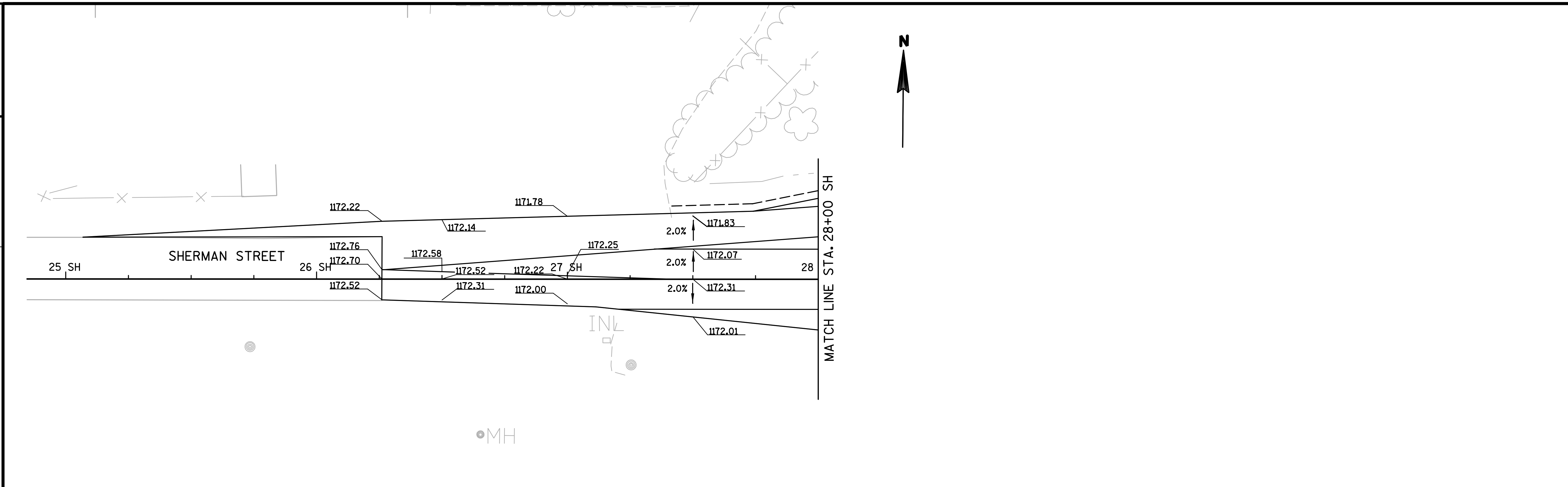
FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021306_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

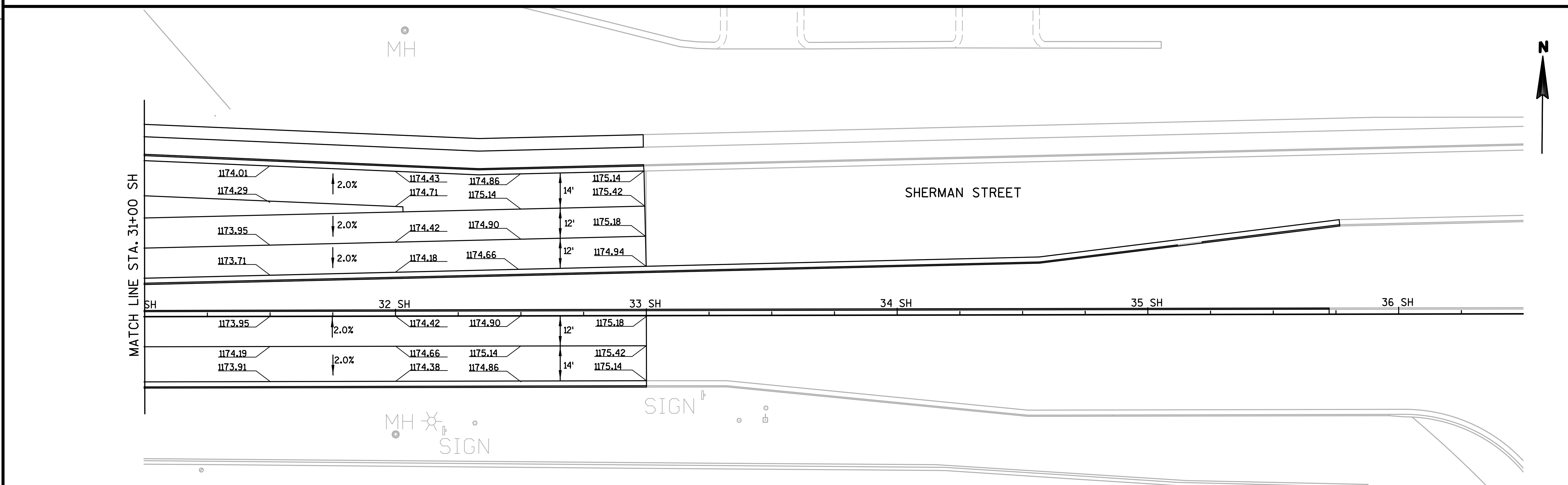


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PAVING DETAIL - STEWART AVENUE (ST)	SHEET 36	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021307_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

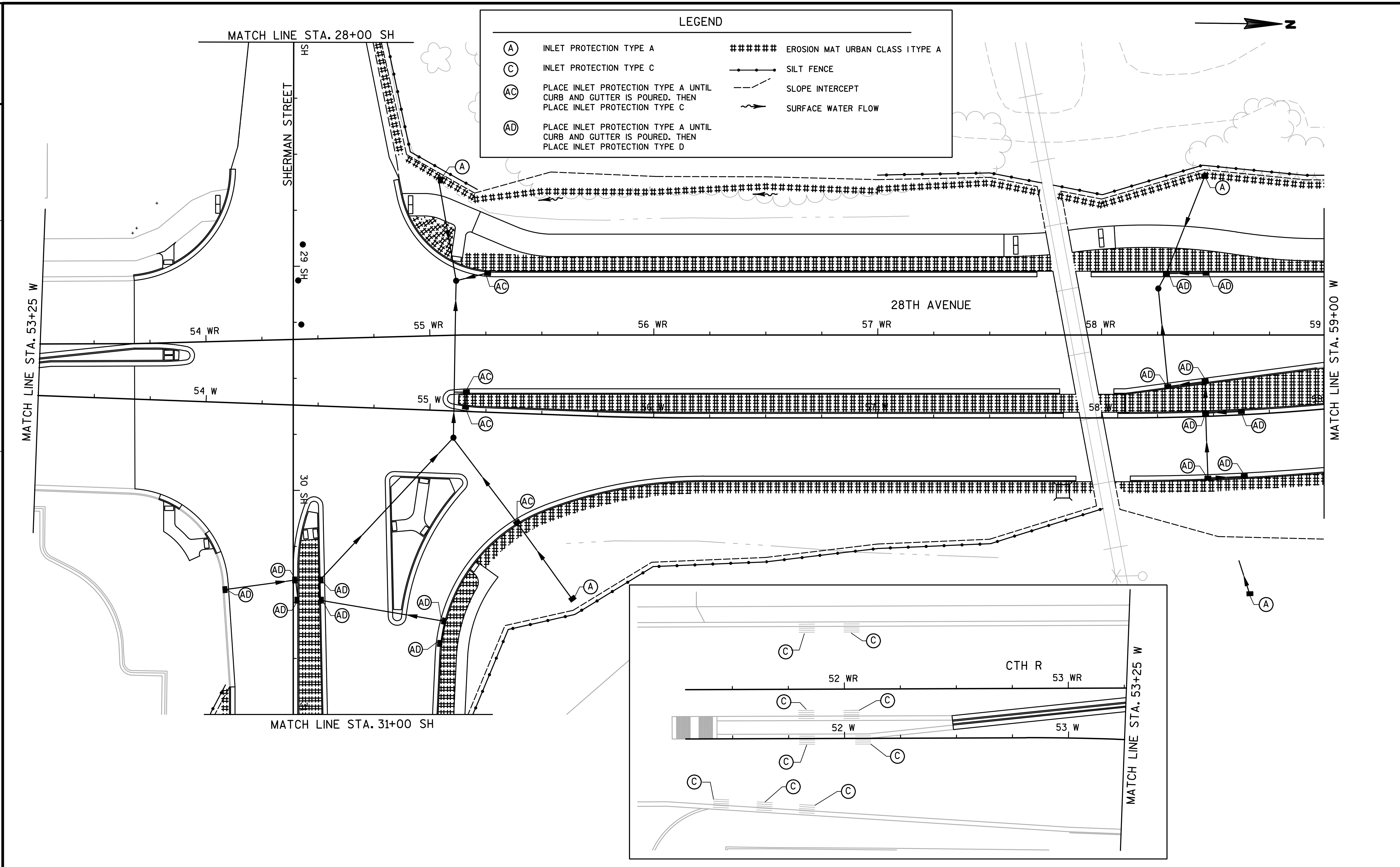
2





PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVING DETAIL - SHERMAN STREET (SH)	SHEET 39	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\021310_jd.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



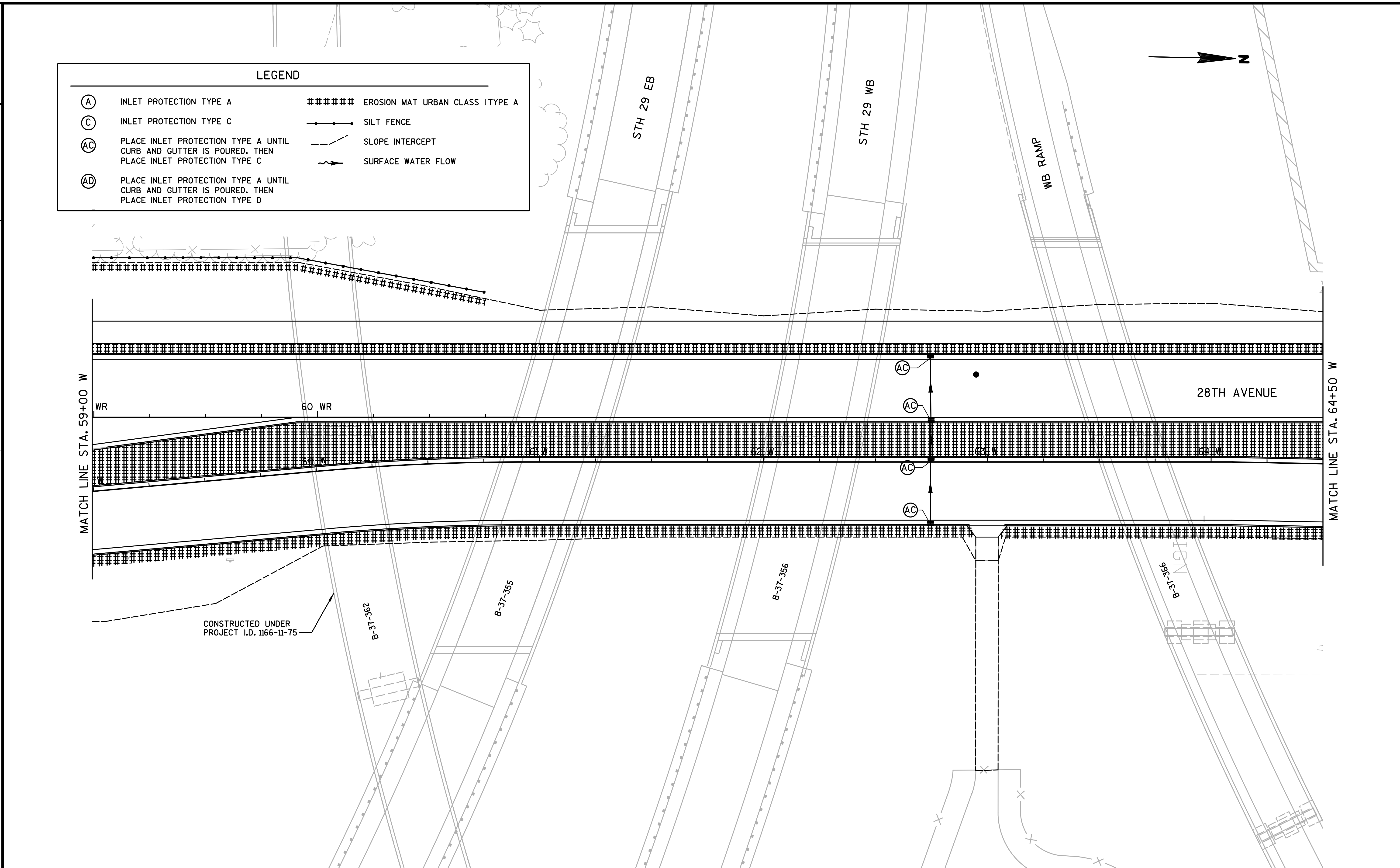
PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	EROSION CONTROL	SHEET 40	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\022001_ec.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

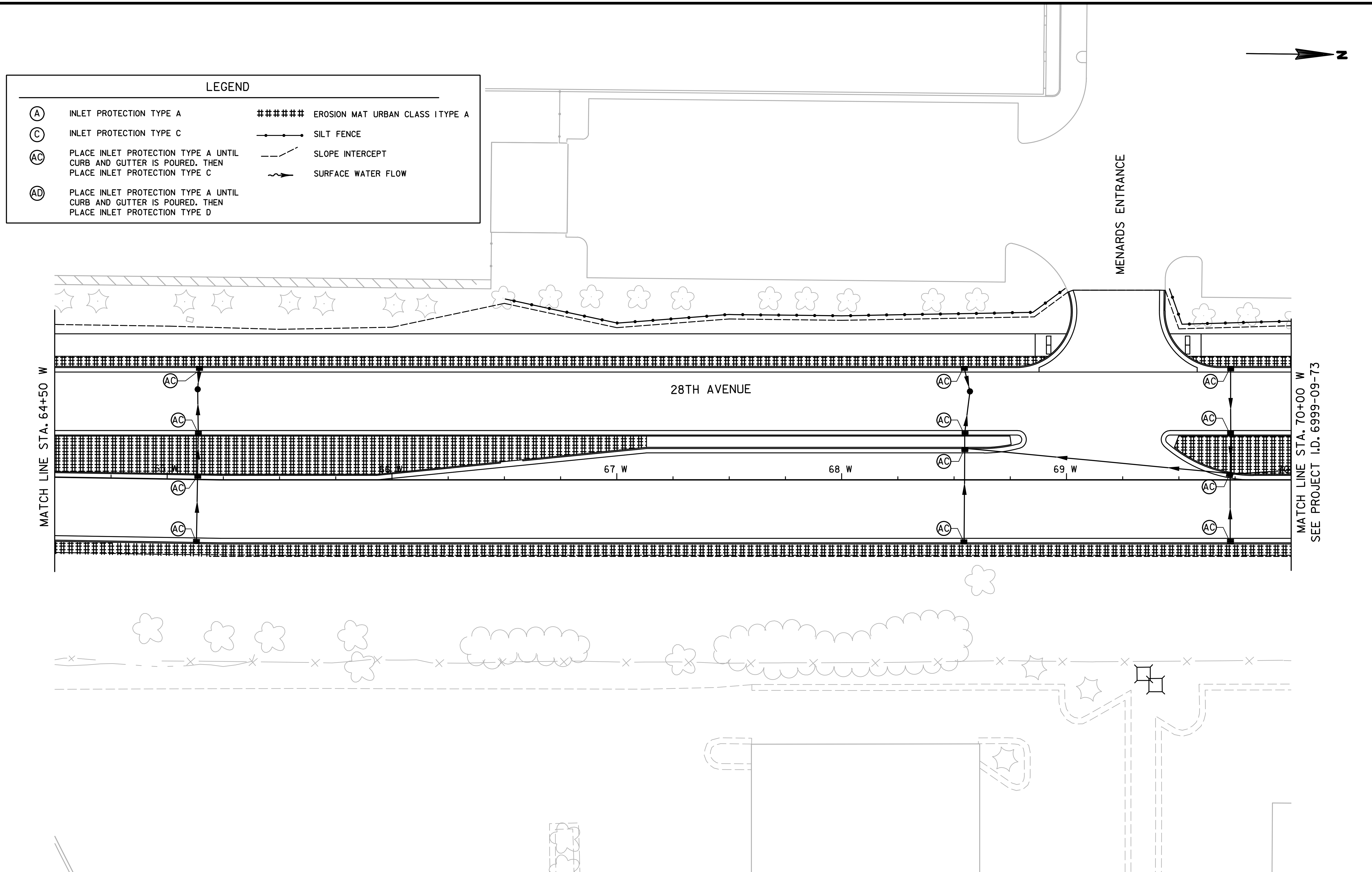
(A)	INLET PROTECTION TYPE A	######	EROSION MAT URBAN CLASS I TYPE A
(C)	INLET PROTECTION TYPE C		SILT FENCE
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C		SLOPE INTERCEPT
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D		SURFACE WATER FLOW



2

PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	EROSION CONTROL	SHEET 41	E

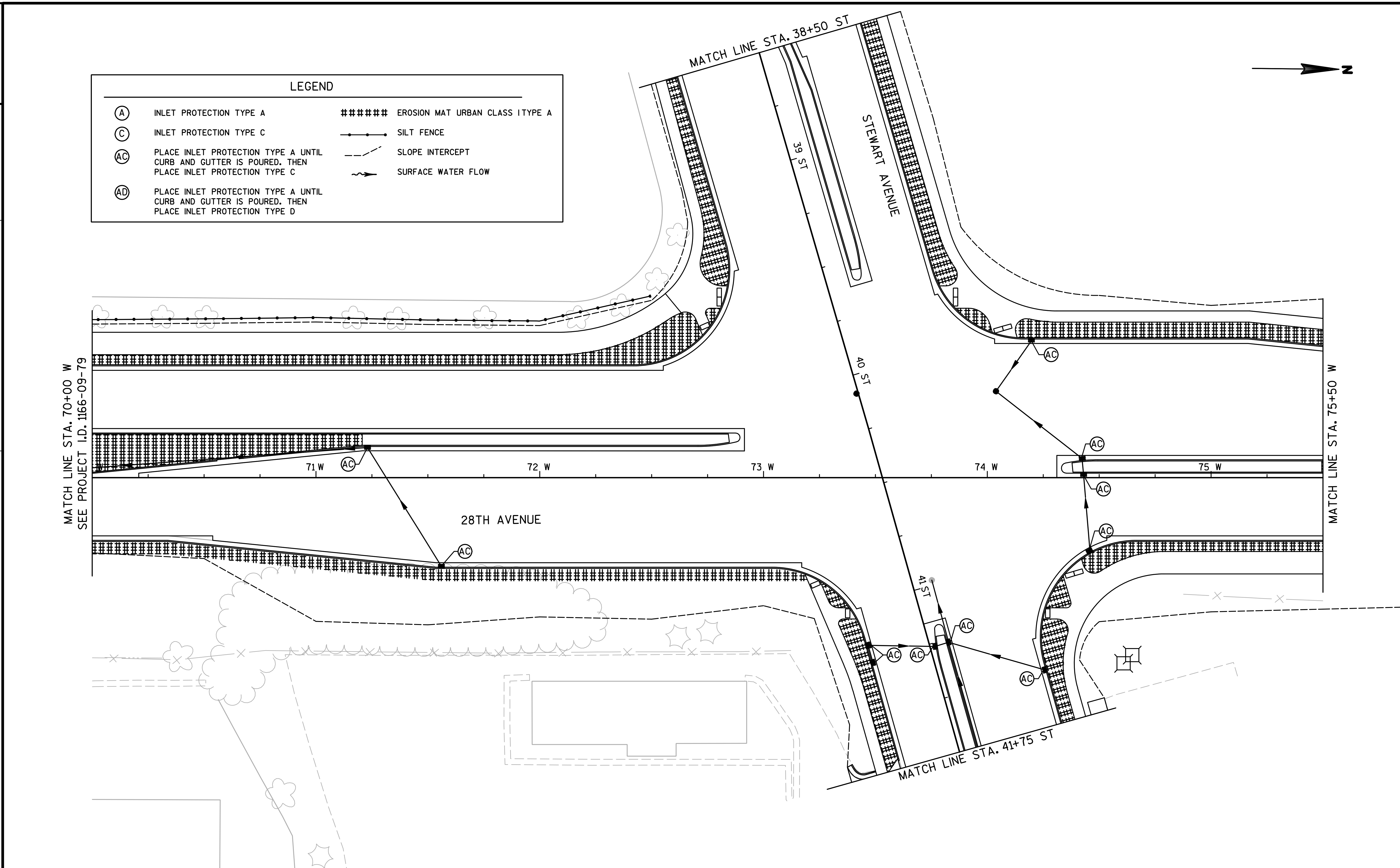
FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\022002_ec.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	EROSION CONTROL	SHEET 42	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\022003_ec.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



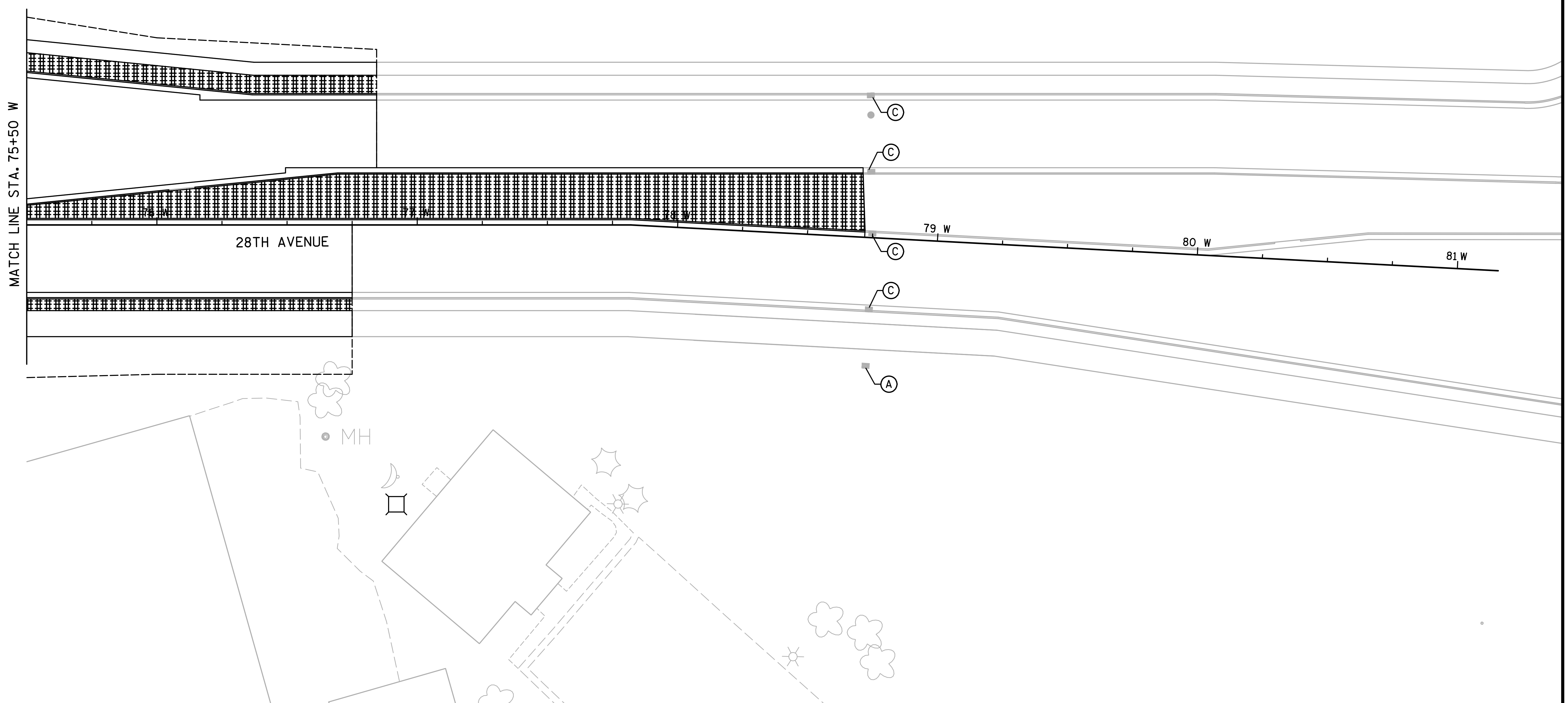
2

PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	EROSION CONTROL	SHEET 43	E

2

LEGEND

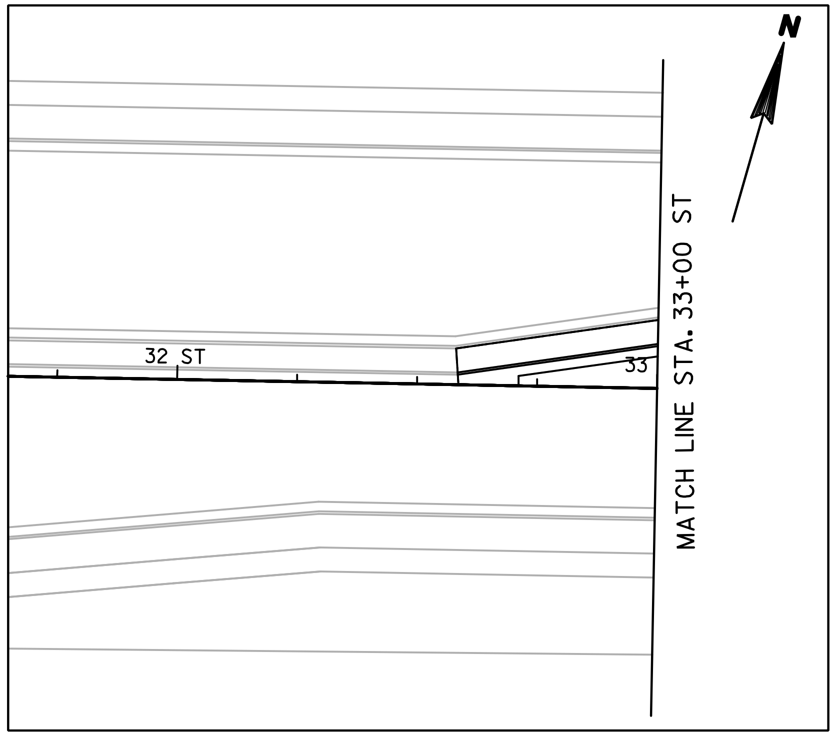
(A)	INLET PROTECTION TYPE A	######	EROSION MAT URBAN CLASS I TYPE A
(C)	INLET PROTECTION TYPE C		SILT FENCE
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C		SLOPE INTERCEPT
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D		SURFACE WATER FLOW



PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	EROSION CONTROL	SHEET 44	E

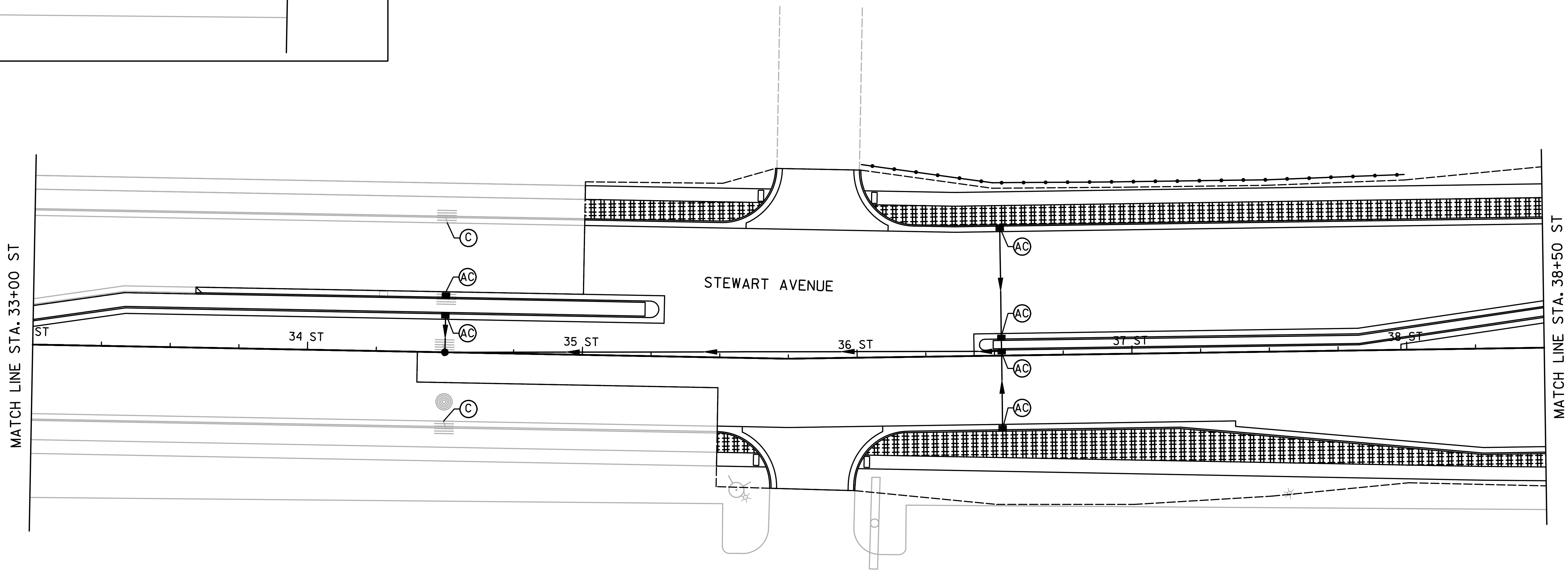
FILE NAME : s:\asai\051--100\089\100\design_projects\d4_11660900ec\design\0977\022005_ec.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



LEGEND

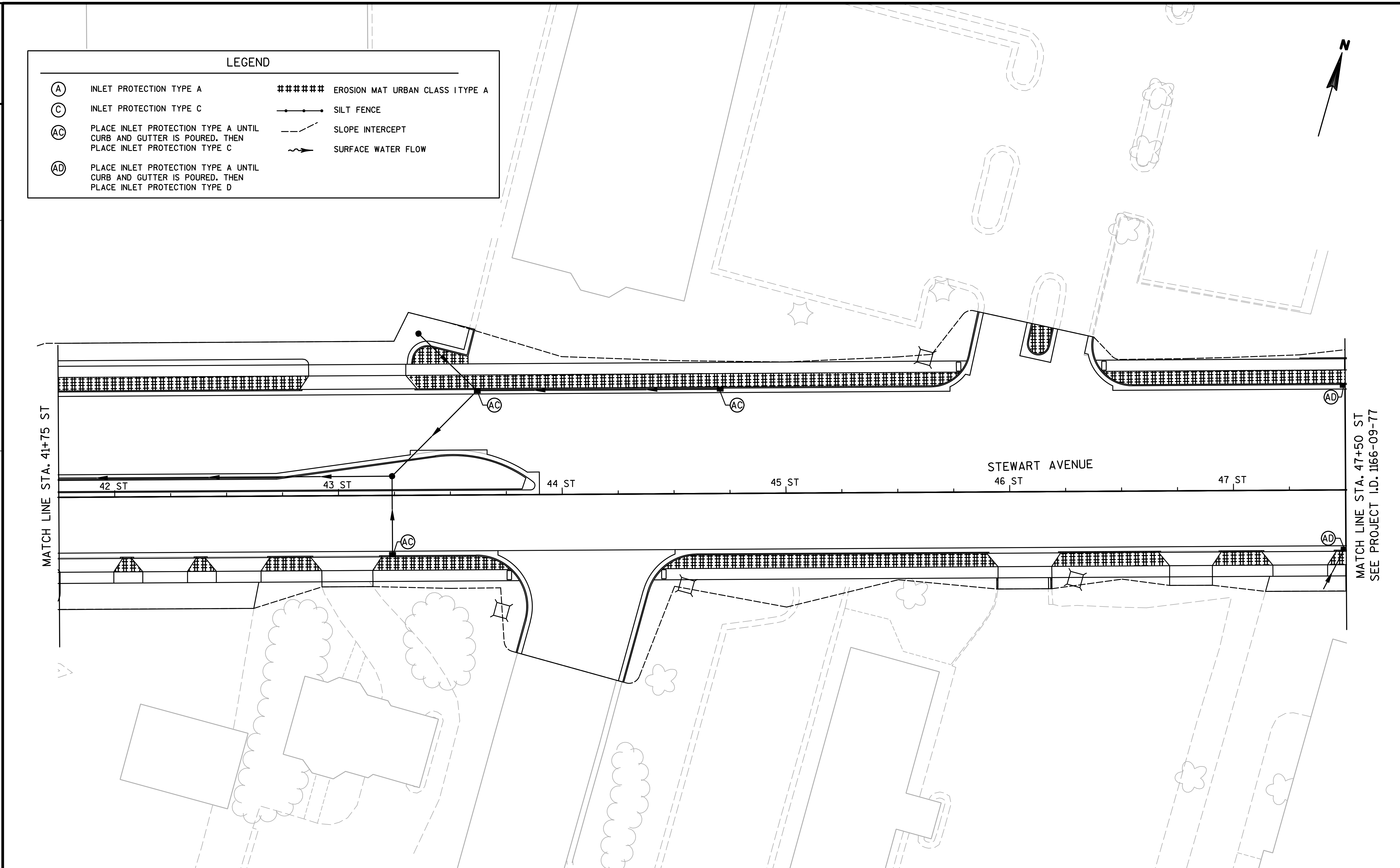
(A)	INLET PROTECTION TYPE A	######	EROSION MAT URBAN CLASS I TYPE A
(C)	INLET PROTECTION TYPE C		SILT FENCE
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C		SLOPE INTERCEPT
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D		SURFACE WATER FLOW



2

PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET 45	E

2



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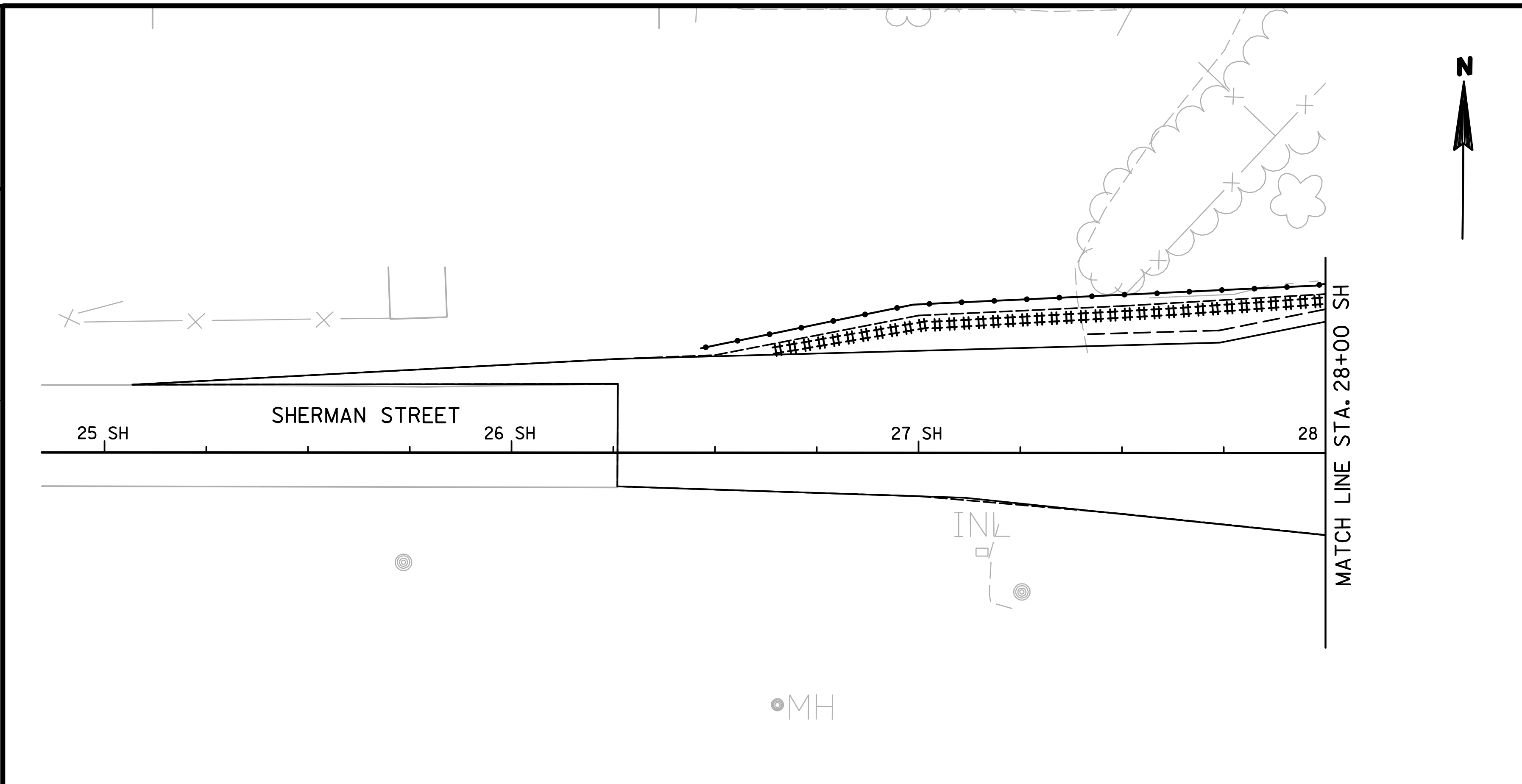
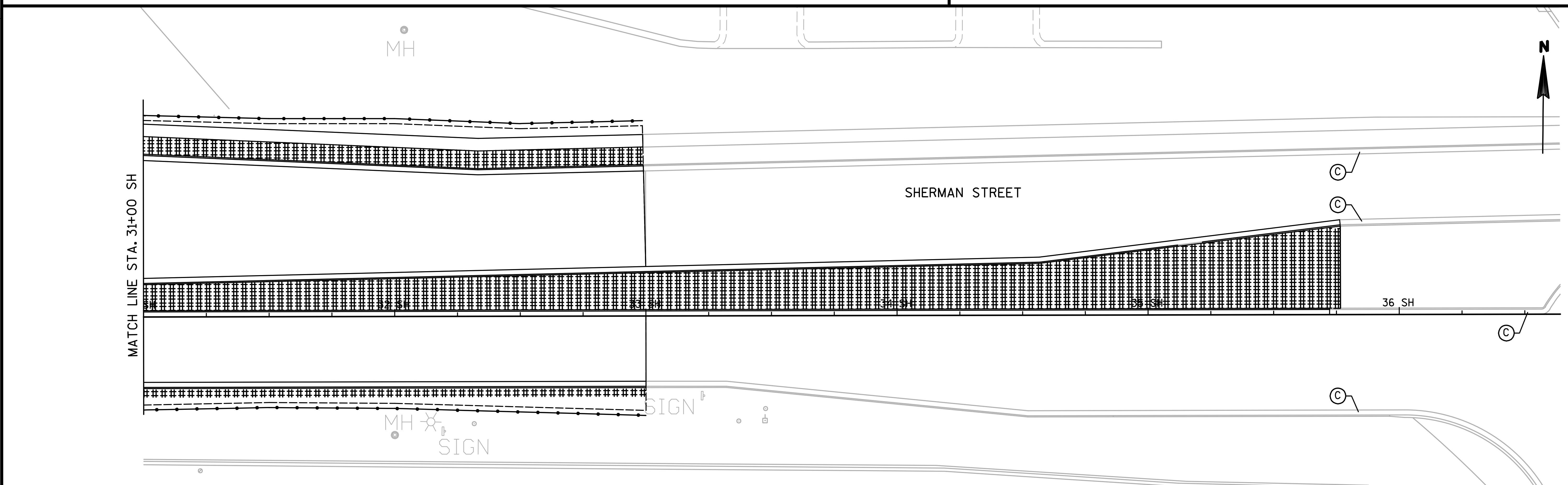
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	EROSION CONTROL	SHEET 46	E

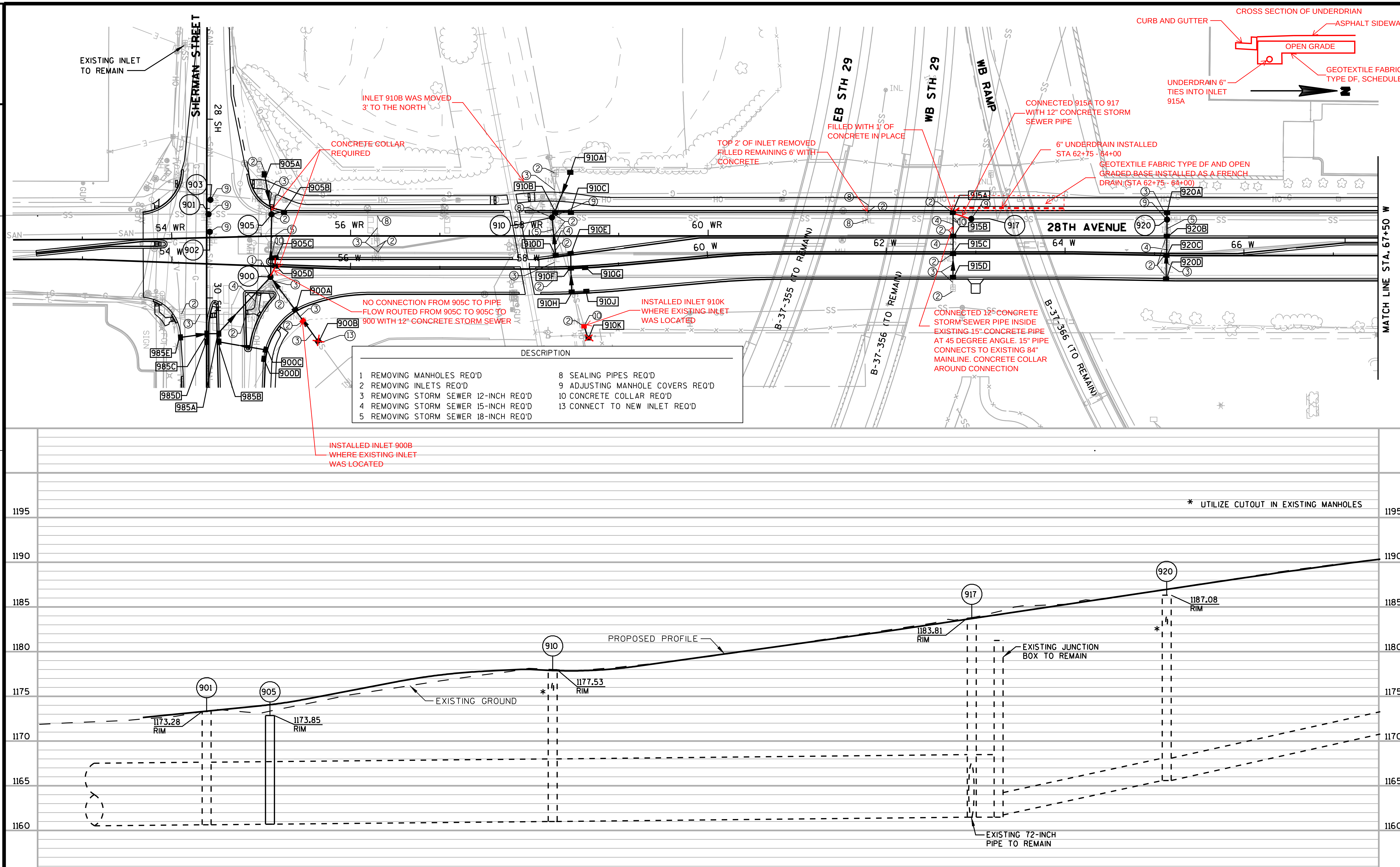


LEGEND

- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D
- ###### EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- SLOPE INTERCEPT
- SURFACE WATER FLOW



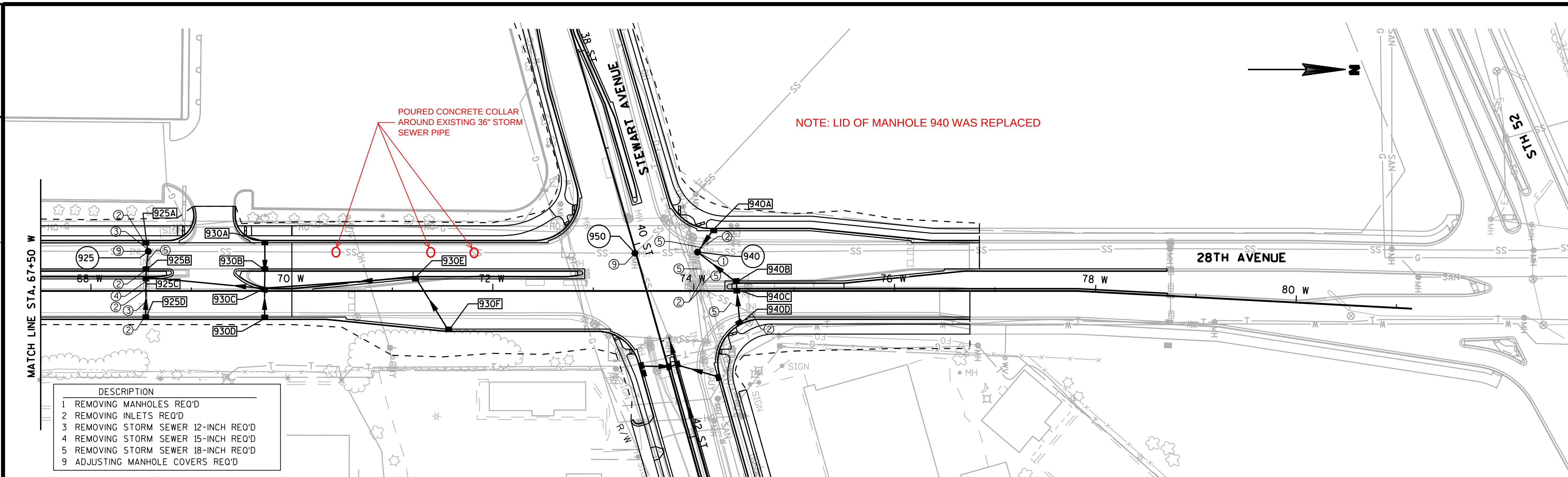
PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	EROSION CONTROL	SHEET 49	E



PROJECT NO: 1166-09-79 | HWY: USH 51/STH 29 | COUNTY: MARATHON | STORM SEWER - 28TH AVENUE (W) | SHEET 50 | E

FILE NAME : S:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\022501_ss.dgn PLOT DATE : 2/1/2008 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

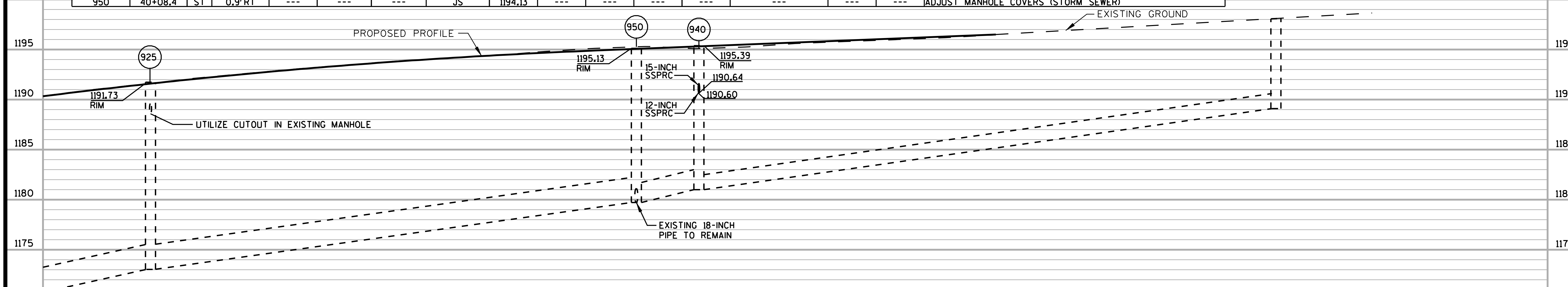
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE & COVER	MANHOLE TYPE & COVER	RIM/ GRATE ELEV	T.O.S. ELEV	DEPTH (FT)	SIZE (IN)	INLET ELEV	DISCHARGE PIPE DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)	REMARKS
900	55+10.9 W	11.9' RT	70.0	905	---	1-JS	1173.84	---	---	24	1167.16	1166.24	70.0	1.30	
900A	55+40.7 W	48.6' RT	47.0	900	3-H	---	1173.86	1173.03	4.90	15	1168.13	1167.66	47.0	1.00	
900B	55+66.7 W	81.6' RT	42.0	900A	8-MS	---	1171.75	1171.75	2.95	12	1168.80	1168.38	42.0	1.00	
900C	30+58.3 SH	67.2' LT	55.0	900D	3-H	---	1173.11	1172.28	2.61	12	1169.67	1169.12	55.0	1.00	
900D	30+68.3 SH	65.3' LT	10.2	900	3-H	---	1173.16	1172.33	2.56	12	1169.77	1169.67	10.2	1.00	
901	54+41.9 WR	26.3' LT	---	---	---	JS	1173.28	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (STORM SEWER)
902	54+43.1 WR	6.5' LT	---	---	---	JS	1173.32	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (SANITARY SEWER)
903	28+90.2 SH	4.2' LT	---	---	---	JS	1172.98	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (SANITARY SEWER)
905	55+12.3 WR	24.3' LT	---	---	---	1 SPEC-JS	1173.85	---	---	---	1160.00	---	---	---	SEE CONSTRUCTION DETAILS
905A	55+05.7 WR	69.4' LT	46.0	905	8-MS	---	1174.04	1174.04	5.80	24	1168.24	1167.78	46.0	1.00	
905B	55+25.7 WR	27.7' LT	15.0	905	3-H	---	1173.81	1172.98	5.05	12	1167.93	1167.78	15.0	1.00	
905C	55+15.9 W	8.6' LT	5.5	EX. PIPE	3-H	---	1173.70	1172.87	5.42	12	1167.45	1167.40	5.5	1.00	CONNECT TO NEW 24-INCH PIPE, CONC. COLLAR REQ'D
905D	55+15.9 W	1.9' LT	6.7	905C	3-H	---	1173.93	1173.10	5.58	12	1167.52	1167.45	6.7	1.00	
985A	30+40.0 SH	12.5' LT	87.0	900	3-H	---	1172.68	1171.85	3.32	18	1168.53	1167.66	87.0	1.00	
985B	30+49.0 SH	12.7' LT	9.0	985A	3-H	---	1172.69	1171.86	2.99	15	1168.87	1168.78	9.0	1.00	
985C	30+40.0 SH	1.5' LT	11.0	985A	3-H	---	1172.92	1172.09	3.20	15	1168.89	1168.78	11.0	1.00	
985D	30+49.0 SH	1.5' LT	9.0	985C	3-H	---	1172.93	1172.10	2.87	12	1169.23	1169.14	9.0	1.00	
985E	30+44.3 SH	30.4' RT	32.2	985C	3-H	---	1172.74	1171.91	2.61	12	1169.30	1169.14	32.2	0.50	
910	58+25.3 WR	20.7' LT	---	905	---	JS	1177.53	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (STORM SEWER)
910A	58+46.0 WR	70.8' LT	46.5	910B	8-MS	---	1171.30	1171.30	2.49	12	1168.81	1168.58	46.5	0.50	
910B	58+28.8 WR	27.5 LT	7.7	910	3-HS	---	1177.22	1176.39	7.81	12	1168.58	1168.50	7.7	1.00	FIELD VERIFY INVERT, UTILIZE EXISTING CUTOUT AT 910
910C	58+46.5 WR	27.5' LT	17.8	910B	3-HS	---	1177.26	1176.43	2.50	12	1173.93	1173.75	17.8	1.00	
910D	58+29.6 WR	23.0' RT	44.0	910	3-HS	---	1177.43	1176.60	3.32	18	1173.28	1172.84	44.0	1.00	FIELD VERIFY INVERT, UTILIZE EXISTING CUTOUT AT 910
910E	58+46.5 WR	20.7' RT	16.8	910D	3-HS	---	1177.47	1176.64	3.19	18	1173.45	1173.28	16.8	1.00	
910F	58+46.5 W	1.5' LT	14.1	910E	3-HS	---	1177.64	1176.81	2.97	15	1173.84	1173.70	14.1	1.00	
910G	58+62.5 W	1.5' LT	16.0	910F	3-HS	---	1177.67	1176.84	2.59	12	1174.25	1174.09	16.0	1.00	
910H	58+46.5 W	27.5' RT	29.0	910F	3-HS	---	1177.62	1176.79	2.41	12	1174.38	1174.09	29.0	1.00	
910J	58+62.5 W	27.5' RT	16.4	910H	3-HS	---	1177.60	1176.77	2.23	12	1174.54	1174.38	16.4	1.00	
910K	58+62.0 W	79.7' RT	15.2	EX. PIPE	8-MS	---	1170.78	1170.78	3.15	18	1167.63	1167.48	15.2	1.00	CONCRETE COLLAR REQ'D
915A	62+74.5 W	47.5' LT	5.0	EX. PIPE	3-H	---	1183.15	1182.32	2.50	12	1179.82	MATCH EXIST.	5.0	---	CONCRETE COLLAR REQ'D
915B	62+74.5 W	18.5' LT	5.0	917	3-H	---	1183.19	1182.36	3.40	12	1178.96	MATCH EXIST.	5.0	---	CONCRETE COLLAR REQ'D
915C	62+74.5 W	1.5' LT	17.0	915B	3-H	---	1183.19	1182.36	2.83	12	1179.53	1178.96	17.0	3.35	
915D	62+74.5 W	27.5' RT	29.0	915C	3-H	---	1183.15	1182.32	2.50	12	1179.82	1179.53	29.0	1.00	
917	62+95.0 W	39.0' LT	---	---	---	JS	1183.81	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (STORM SEWER)
920	65+13.4 W	40.1' LT	---	---	---	JS	1187.08	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (STORM SEWER)
920A	65+13.4 W	49.3' LT	9.2	920	3-H	---	1186.72	1185.89	2.90	12	1182.99	1182.90	9.2	1.00	UTILIZE EXISTING CUTOUT IN 920
920B	65+13.4 W	20.3' LT	19.8	920	3-H	---	1186.76	1185.93	3.22	12	1182.71	1182.51	19.8	1.00	UTILIZE EXISTING CUTOUT IN 920
920C	65+13.4 W	1.5' LT	18.8	920B	3-H	---	1186.76	1185.93	3.03	12	1182.90	1182.71	18.8	1.00	
920D	65+13.4 W	27.5' LT	29.0	920C	3-H	---	1186.72	1185.89	2.70	12	1183.19	1182.90	29.0	1.00	



DESCRIPTION

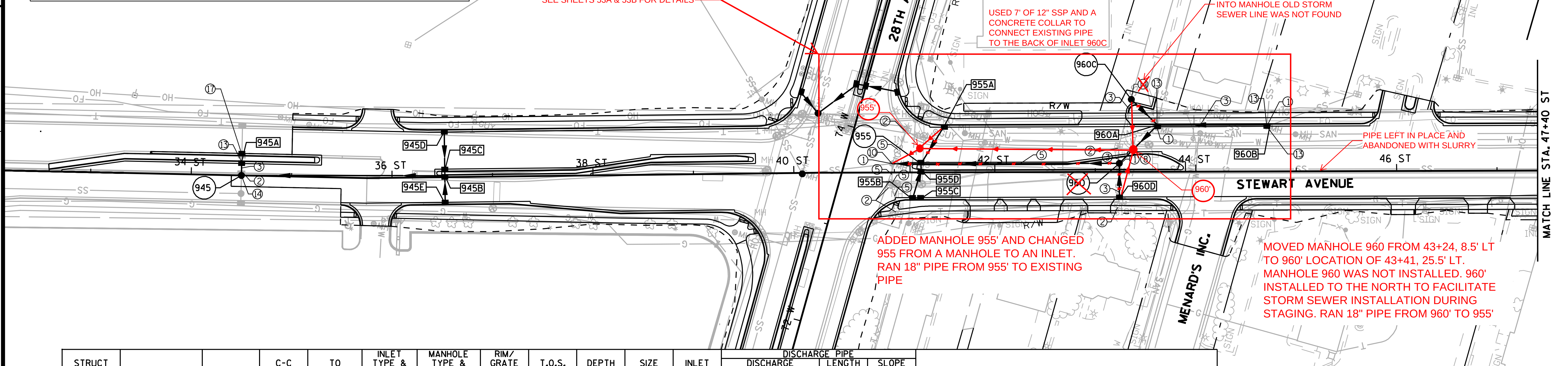
1 REMOVING MANHOLES REQ'D
2 REMOVING INLETS REQ'D
3 REMOVING STORM SEWER 12-INCH REQ'D
4 REMOVING STORM SEWER 15-INCH REQ'D
5 REMOVING STORM SEWER 18-INCH REQ'D
9 ADJUSTING MANHOLE COVERS REQ'D

STRUCT NO.	STATION		OFFSET	C-C (FT)	TO STRUCT	INLET TYPE & COVER	MANHOLE TYPE & COVER	RIM/ GRATE ELEV	T.O.S. ELEV	DEPTH (FT)	SIZE (IN)	INLET ELEV	DISCHARGE PIPE DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)	REMARKS
925	68+57.0	W	39.4' LT	---	---	---	JS	1191.73	---	---	---	---	---	---	1.00	ADJUST MANHOLE COVERS (STORM SEWER)
925A	68+54.6	W	49.5' LT	10.4	925	3-H	---	1191.32	1190.49	3.93	12	1186.56	1184.90	10.4	15.96	UTILIZE EXISTING CUTOUT IN 925
925B	68+54.6	W	20.5' LT	19.0	925	3-H	---	1191.36	1190.53	3.17	12	1187.36	1184.90	19.0	1.20	UTILIZE EXISTING CUTOUT IN 925
925C	68+54.6	W	13.5' LT	7.0	925B	3-H	---	1194.12	1193.29	5.62	12	1187.67	1187.36	7.0	4.40	
925D	68+54.6	W	27.5' RT	41.0	925C	3-H	---	1191.32	1190.49	2.41	12	1188.08	1187.67	41.0	1.00	
930A	69+73.0	W	49.5' LT	29.0	930B	3-H	---	1192.51	1191.68	2.88	12	1188.80	1188.51	29.0	1.00	
930B	69+73.0	W	20.5' LT	18.5	930C	3-H	---	1192.55	1191.72	3.02	12	1188.70	1188.51	18.5	1.00	
930C	69+73.0	W	2.4' LT	119.0	925C	3-H	---	1192.53	1191.70	2.82	12	1188.88	1187.67	119.0	1.00	
930D	69+73.0	W	27.5' RT	29.9	930C	3-H	---	1192.51	1191.68	2.50	12	1189.18	1188.88	29.9	1.00	
930E	71+23.0	W	13.5' LT	150.6	930C	3-H	---	1193.50	1192.67	3.04	12	1189.63	1188.88	150.6	0.50	
930F	71+56.0	W	39.5' RT	62.4	930E	3-H	---	1193.68	1192.85	2.90	12	1189.95	1189.63	62.4	0.50	
940	74+03.9	W	38.7' LT	---	---	---	JS	1195.39	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (STORM SEWER)
940A	74+20.0	W	61.5' LT	28.0	940	3-H	---	1194.89	1194.06	3.18	12	1190.88	1190.60	28.0	1.00	
940B	74+42.3	W	8.5' LT	48.8	940	3-H	---	1194.86	1194.03	2.91	15	1191.12	1190.64	48.8	1.00	
940C	74+43.0	W	1.5' LT	7.0	940B	3-H	---	1195.27	1194.44	3.00	12	1191.44	1191.37	7.0	1.00	
940D	74+45.9	W	32.8' RT	34.4	940C	3-H	---	1195.51	1194.68	2.90	12	1191.78	1191.44	34.4	1.00	
950	40+08.4	ST	0.9' RT	---	---	---	JS	1194.13	---	---	---	---	---	---	---	ADJUST MANHOLE COVERS (STORM SEWER)

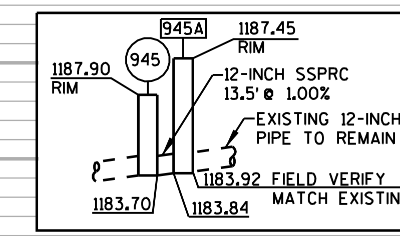


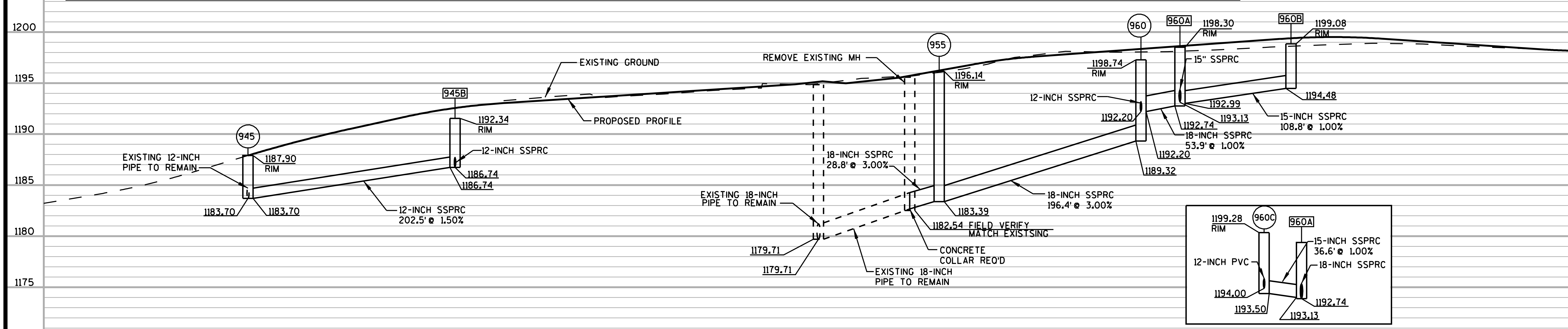
2

	DESCRIPTION
1 REMOVING MANHOLES REQ'D	10 CONCRETE COLLAR REQ'D
2 REMOVING INLETS REQ'D	13 CONNECT TO NEW INLET
3 REMOVING STORM SEWER 12-INCH REQ'D	14 CONNECT TO NEW MANHOLE
5 REMOVING STORM SEWER 18-INCH REQ'D	15 CONNECT TO EXISTING MANHOLE
8 SEALING PIPES REQ'D. & ABANDONED PIPE	17 ADJUSTING INLET COVERS REQ'D



STRUCT NO.	STATION		OFFSET	C-C (FT)	TO STRUCT	INLET TYPE & COVER	MANHOLE TYPE & COVER	RIM/ GRATE ELEV	T.O.S. ELEV	DEPTH (FT)	SIZE (IN)	INLET ELEV	DISCHARGE PIPE DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)	REMARKS
945	34+50.0	ST	0'LT/RT	---	---	---	1-JS	1187.90	1186.65	2.95	---	1183.70	---	---	---	
945A	34+50.0	ST	13.5'LT	13.5	945	3-H	---	1187.45	1186.62	2.78	12	1183.84	1183.70	13.5	1.00	
945B	36+52.6	ST	1.5'LT	202.5	945	3-H	---	1192.34	1191.51	4.77	12	1186.74	1183.70	202.5	1.50	
945C	36+52.6	ST	6.5'LT	5.0	945B	3-H	---	1192.21	1191.38	4.59	12	1186.79	1186.74	5.0	1.00	
945D	36+52.60	ST	46.5'LT	40.0	945C	3-H	---	1192.30	1191.47	4.28	12	1187.19	1186.79	40.0	1.00	
945E	36+52.60	ST	26.5'RT	28.0	945B	3-H	---	1192.30	1191.47	4.45	12	1187.02	1186.74	28.0	1.00	
955	41+26.5	ST	8.5'RT	28.8	EX. PIPE	---	1-H	1195.95	1195.12	11.73	18	1183.39	1182.54	28.8	3.00	CONC. COLLAR REQ'D, CONC. FLAT SLAB REQ'D.
955A	41+50.0	ST	46.5'LT	44.7	955	3-H	---	1195.96	1195.13	3.80	12	1191.33	1192.43	44.7	1.00	
955B	41+18.0	ST	26.5'RT	30.0	955D	3-H	---	1195.74	1194.91	3.65	12	1191.26	1192.11	30.0	1.00	
955C	41+26.0	ST	26.5'RT	8.0	955B	3-H	---	1195.82	1194.99	3.65	12	1191.34	1192.47	8.0	1.00	
955D	41+26.0	ST	2.0'LT	6.4	955	3-H	---	1196.03	1195.20	4.26	12	1190.94	1190.88	6.4	1.00	
960	43+24.0	ST	8.5'LT	196.4	955	---	1-J	1198.74	1197.49	8.17	18	1189.32	1183.39	196.4	3.00	
960A	43+62.2	ST	46.5'LT	53.9	960	3-H	---	1198.30	1197.47	4.73	18	1192.74	1192.20	53.9	1.00	
960B	44+70.8	ST	46.5'LT	108.8	960A	3-H	---	1199.08	1198.25	3.77	15	1194.48	1192.99	108.8	1.00	
960C	43+36.2	ST	72.1'LT	36.6	960A	---	1-JS	1199.28	1198.03	4.53	15	1193.50	1193.13	36.6	1.00	
960D	43+24.0	ST	26.5'RT	35.0	960	3-H	---	1197.38	1196.55	4.00	12	1192.55	1192.20	35.0	1.00	



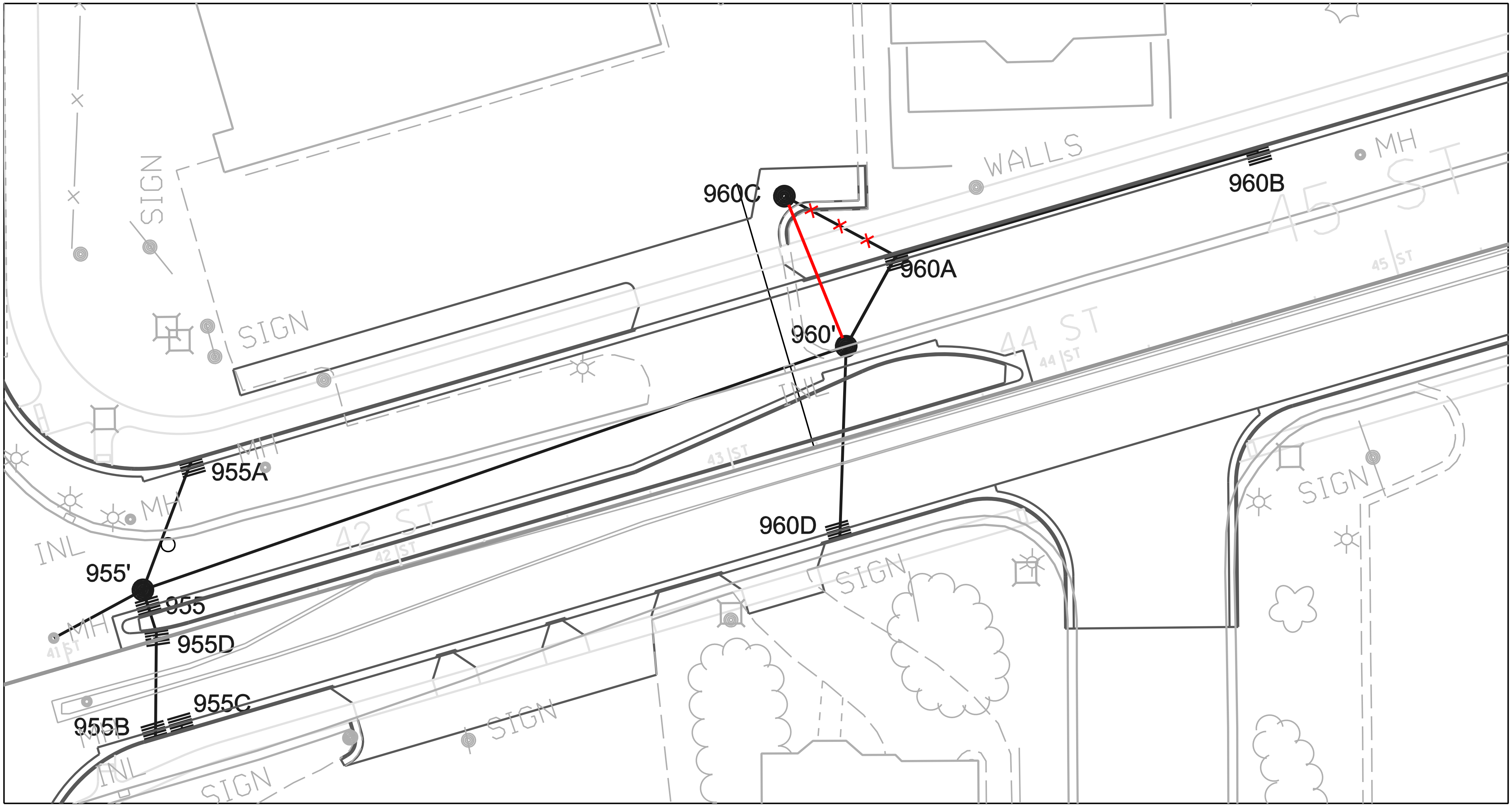


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	STORM SEWER - STEWART AVENUE (ST)	SHEET 53	E

CHANGES TO STORM SEWER SCHEDULE

													DISCHARGE PIPE		
STR NO		STATION	OFFSET	C-C	TO STRUCT	INLET TYPE AND COVER	MH TYPE AND COVER	RIM/GRATE ELEV	T.O.S. ELEV	DEPTH (FT)	SIZE (IN)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE
955'	New MH	41+26.0	15' LT	29.3	Ex MH	---	1-J	1196.17	1194.92	6.07	18	1188.85	1188.40	29.3	1.50
955	Was MH, now Inlet.	PER PLAN		8.5	955'	3-H	---	1195.95	1195.12	4.24	18	1190.88	1190.23	6.5	1.00
955A	PER PLAN			39.4	955'	3-H	---	1195.96	1195.13	3.80	12	1191.33	1190.94	39.4	1.00
955B	PER PLAN			30.0	955D	3-H	---	1195.74	1194.91	3.65	12	1191.26	1190.96	30.0	1.00
955C	PER PLAN			8.0	955B	3-H	---	1195.82	1194.99	3.65	12	1191.34	1191.26	8.0	1.00
955D	PER PLAN			6.4	955	3-H	---	1196.03	1195.2	4.26	12	1190.94	1190.88	6.4	1.00
960'	Rebuilt, Moved	43+41.1	25.5' LT	215.0	955'	---	1-J	1198.75	1197.50	6.00	18	1191.50	1188.85	215.0	1.23
960A	PER PLAN			29.8	960'	3-H	---	1198.30	1197.47	4.73	18	1192.74	1192.44	29.8	1.00
960B	PER PLAN			108.8	960A	3-H	---	1199.08	1198.25	3.77	15	1194.48	1192.99	108.8	1.00
960C	~~PER PLAN~~			48.0 ~~36.6~~	~~960A~~ 960'	---	1-JS	1199.28	1198.03	4.53	15	1193.50	1193.13	36.6	1.00
960D	PER PLAN			54.7	960'	3-H	---	1197.38	1196.55	4.00	12	1192.55	1192.00	54.7	1.00

STORM SEWER CHANGES DETAILS



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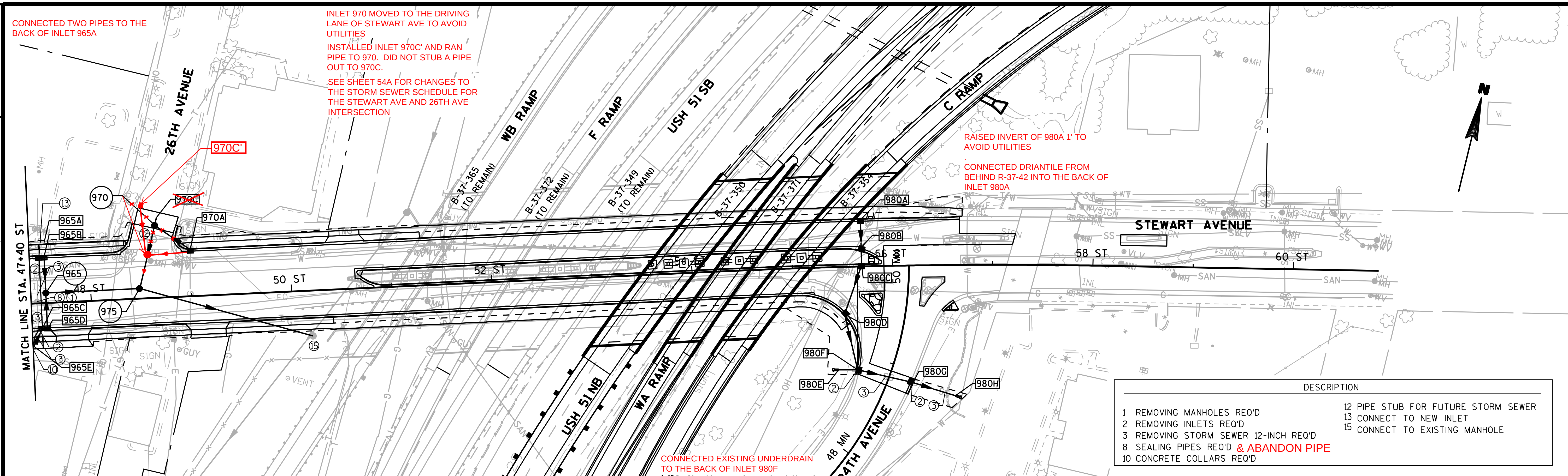
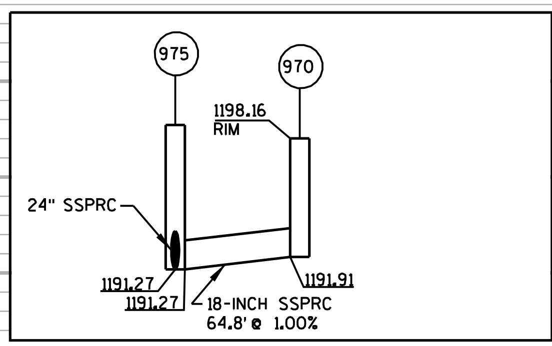
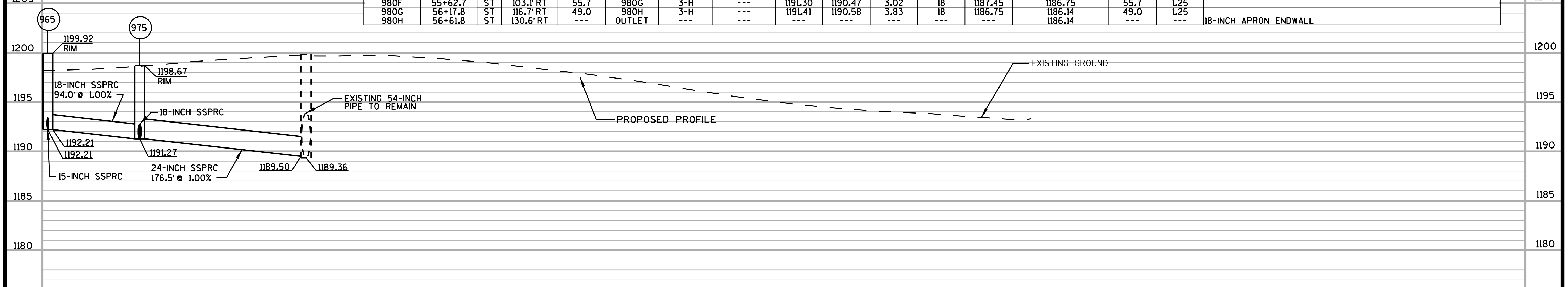


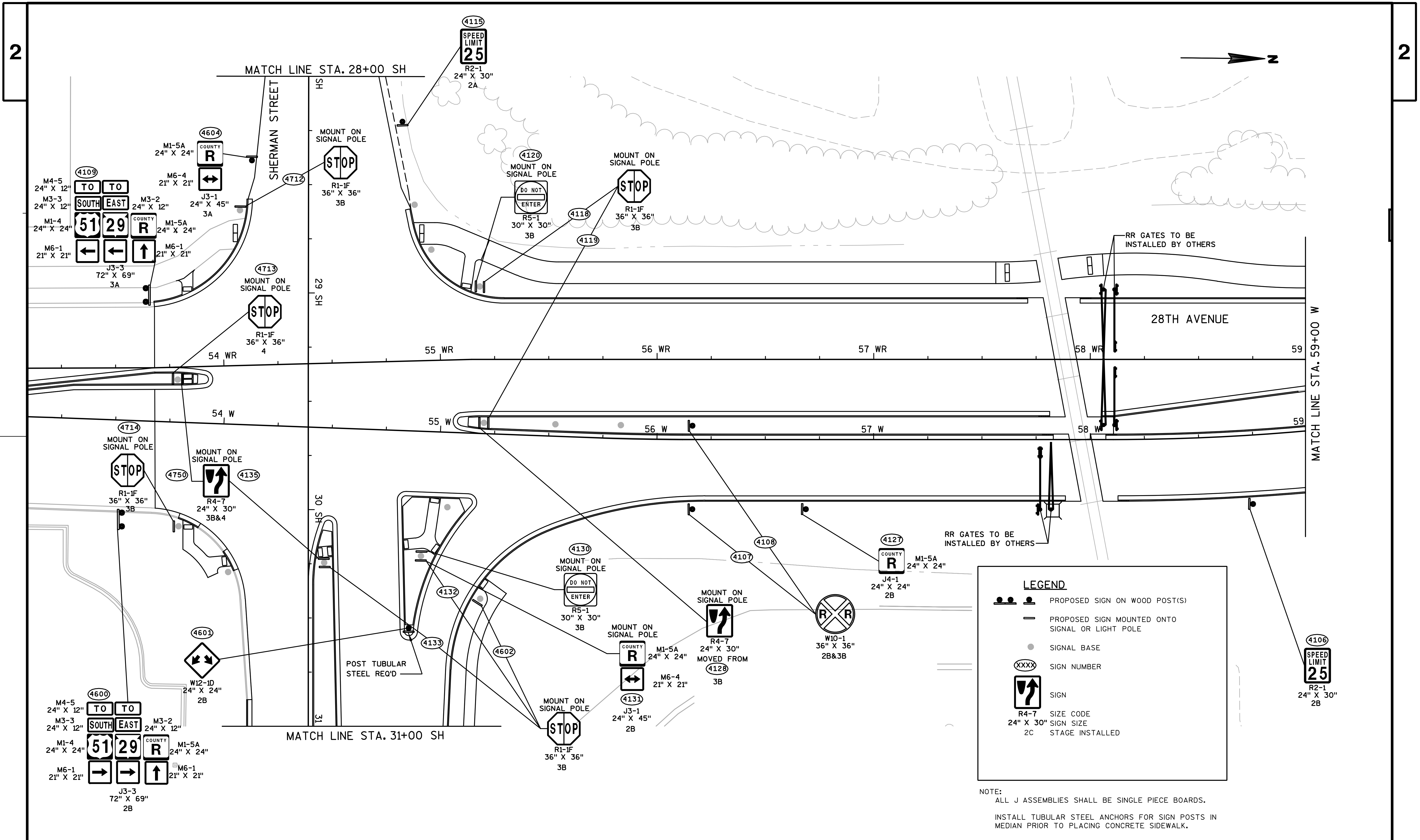
DESCRIPTION

1 REMOVING MANHOLES REQ'D
2 REMOVING INLETS REQ'D
3 REMOVING STORM SEWER 12-INCH REQ'D
8 SEALING PIPES REQ'D & ABANDON PIPE
10 CONCRETE COLLARS REQ'D
12 PIPE STUB FOR FUTURE STORM SEWER
13 CONNECT TO NEW INLET
15 CONNECT TO EXISTING MANHOLE



STRUCT NO.	STATION		OFFSET	C-C (FT)	TO STRUCT	INLET TYPE & COVER	MANHOLE TYPE & COVER	RIM/ GRATE ELEV	T.O.S. ELEV	DEPTH (FT)	SIZE (IN)	INLET ELEV	DISCHARGE PIPE DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)	REMARKS
965	47+55.0	ST	10.0' LT	94.0	975	---	1-JS	1199.92	1198.67	6.46	18	1192.21	1191.27	94.0	1.00	
965A	47+49.3	ST	46.5' LT	5.7	965B	3-HS	---	1197.86	1197.03	4.14	12	1192.89	1192.83	5.7	1.00	
965B	47+55.0	ST	46.5' LT	36.5	965	3-HS	---	1197.85	1197.02	4.44	15	1192.58	1192.21	36.5	1.00	
965C	47+49.3	ST	26.5' RT	5.7	965D	3-HS	---	1197.21	1196.38	3.49	12	1192.89	1192.83	5.7	1.00	
965D	47+55.0	ST	26.5' RT	36.5	965	3-HS	---	1197.20	1196.37	3.79	15	1192.58	1192.21	36.5	1.00	
965E	47+40.0	ST	44.3' RT	20.0	965C	---	---	---	---	---	12	1194.87	1194.47	20.0	2.00	CONCRETE COLLAR REQ'D
970	48+66.5	ST	72.4' LT	64.8	975	---	1-JS	1198.16	1196.91	5.00	18	1191.91	1191.27	31.0	1.00	
970A	49+00.9	ST	46.5' LT	43.0	970	3-H	---	1198.50	1197.67	5.33	12	1192.34	1191.91	43.0	1.00	
970C	48+68.8	ST	80.0' LT	8.0	970	---	---	---	---	---	15	1191.99	1191.91	8.0	1.00	STUB PIPE. PLUG END.
975	48+49.0	ST	10.0' LT	179.1	EXIST MH	---	1-JS	1198.67	1195.42	4.15	24	1191.27	1189.48	179.1	1.00	CONNECT TO EXISTING MANHOLE
980A	55+69.2	ST	46.7' LT	30.6	980B	3-H	---	1193.60	1192.77	2.27	12	1190.50	1189.19	30.6	4.37	
980B	55+69.2	ST	16.2' LT	14.7	980C	3-H	---	1194.12	1193.29	4.10	12	1189.19	1189.04	14.7	1.00	
980C	55+69.2	ST	1.5' LT	52.1	980D	3-H	---	1194.10	1193.27	4.23	12	1189.04	1188.52	52.1	1.00	
980D	55+51.0	ST	47.3' RT	57.0	980F	3-H	---	1192.79	1191.96	3.44	12	1188.52	1187.45	57.0	1.88	
980E	55+43.3	ST	102.7' RT	19.0	980F	---	---	---	---	---	18	1190.25	1187.45	19.0	1.00	18-INCH APRON ENDWALL
980F	55+62.7	ST	103.1' RT	55.7	980G	3-H	---	1191.30	1190.47	3.02	18	1187.45	1186.75	55.7	1.25	
980G	56+17.8	ST	116.7' RT	49.0	980H	3-H	---	1191.41	1190.58	3.83	18	1186.75	1186.14	49.0	1.25	
980H	56+61.8	ST	130.6' RT	---	OUTLET	---	---	---	---	---	---	---	1186.14	---	---	18-INCH APRON ENDWALL

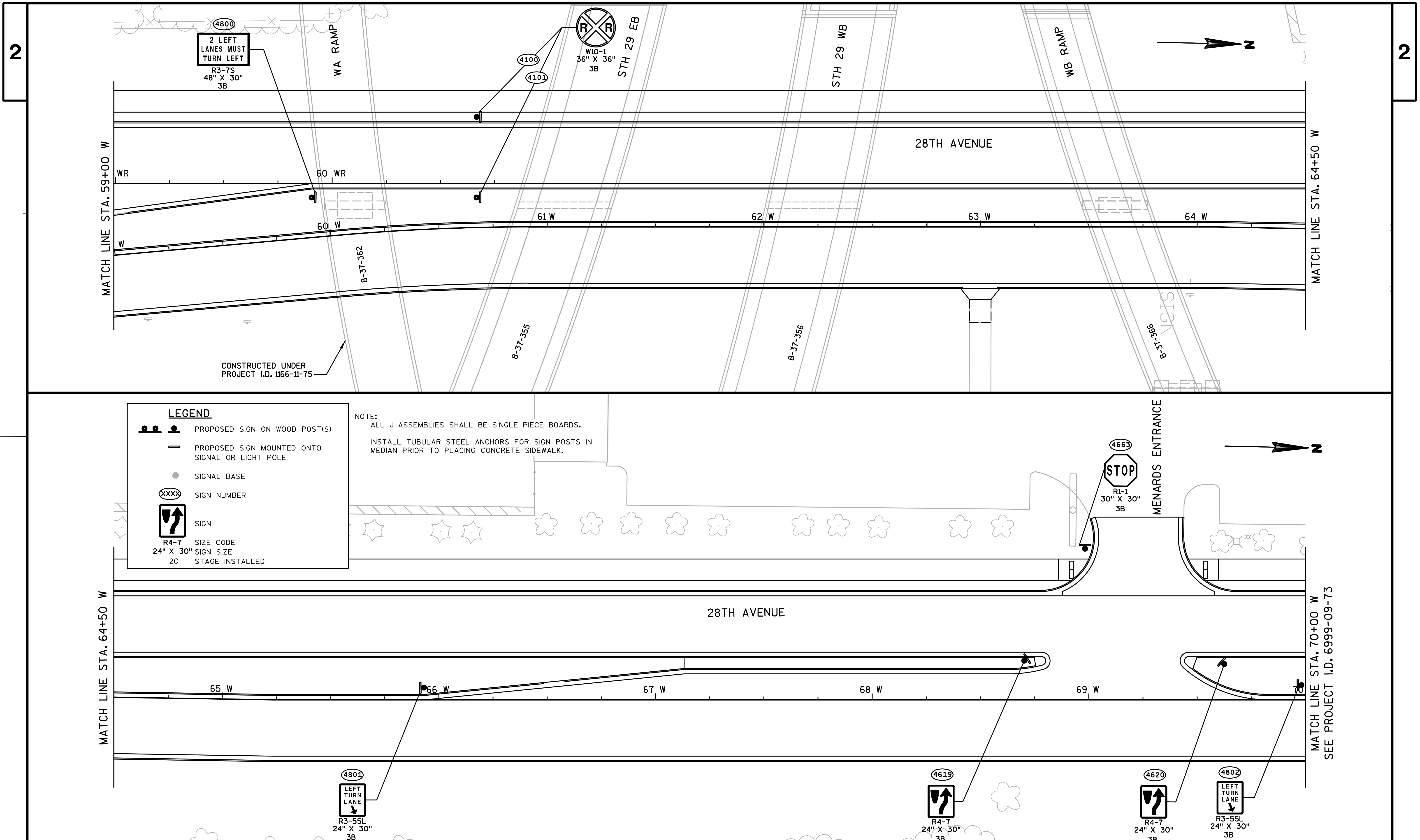




NOTE:
ALL J ASSEMBLIES SHALL BE SINGLE PIECE BOARDS.

INSTALL TUBULAR STEEL ANCHORS FOR SIGN POSTS IN MEDIAN PRIOR TO PLACING CONCRETE SIDEWALK.

PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 55	E



PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 56	E

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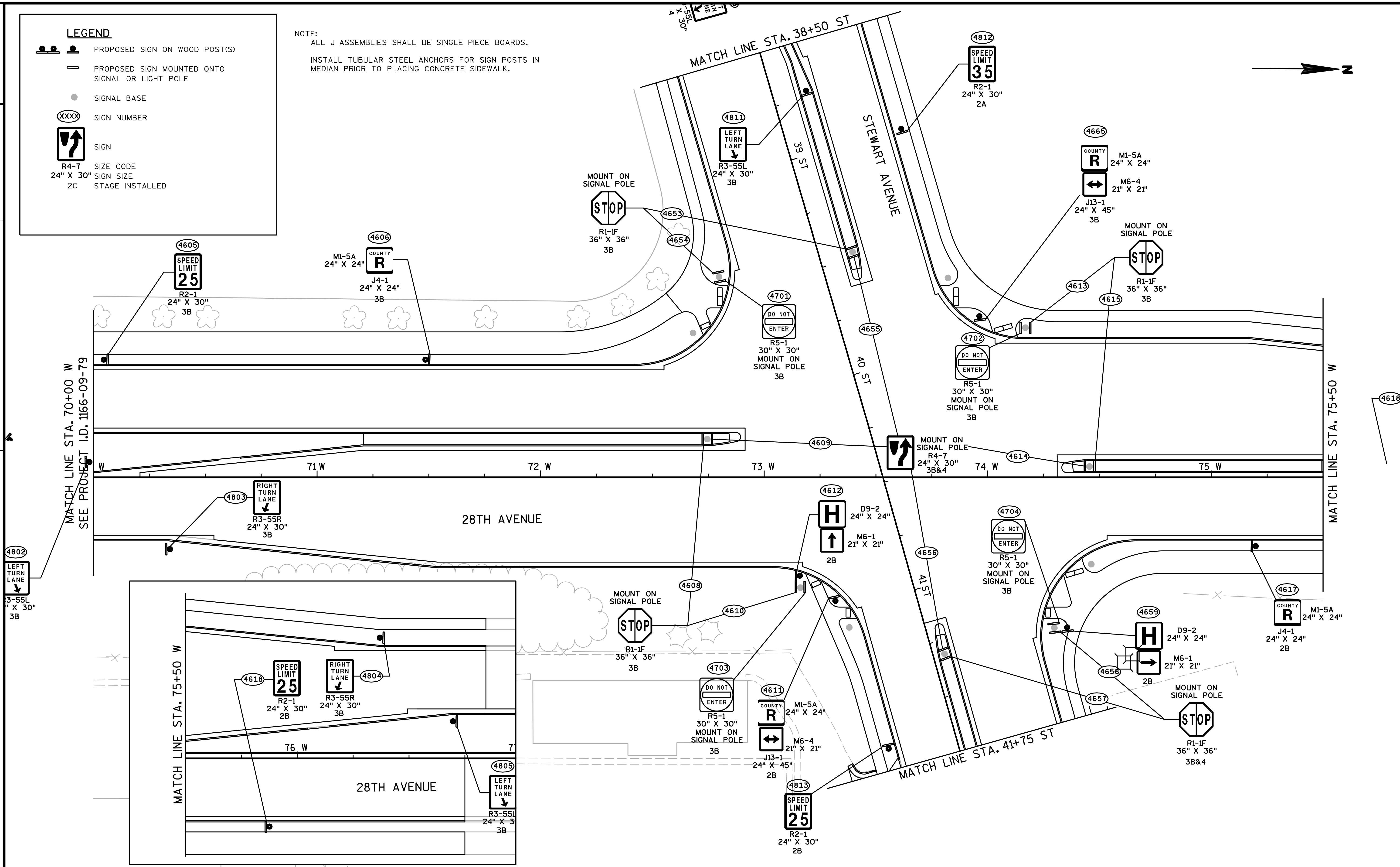

PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 57	E

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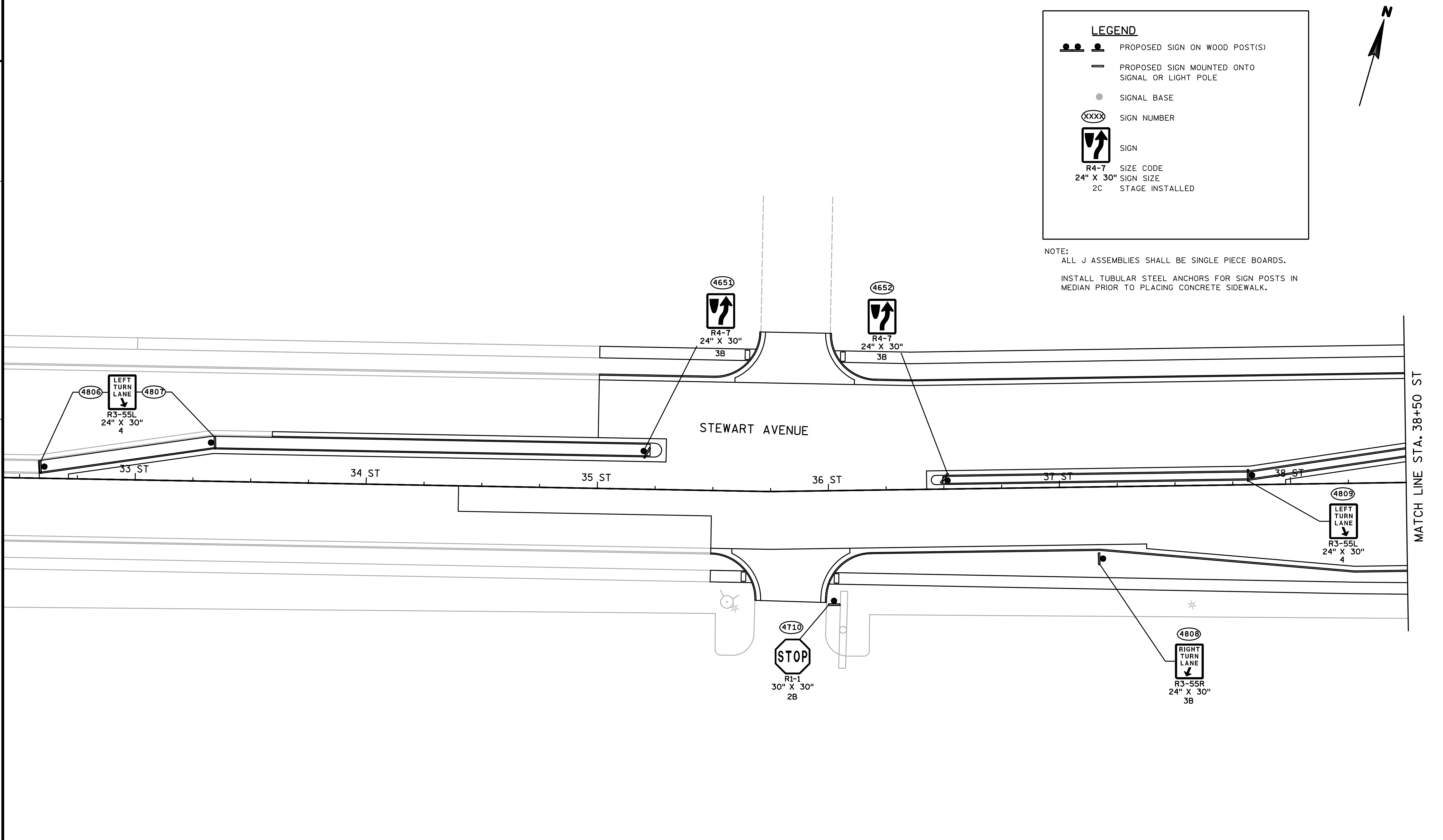
2



NOTE:
ALL J ASSEMBLIES SHALL BE SINGLE PIECE BOARDS.

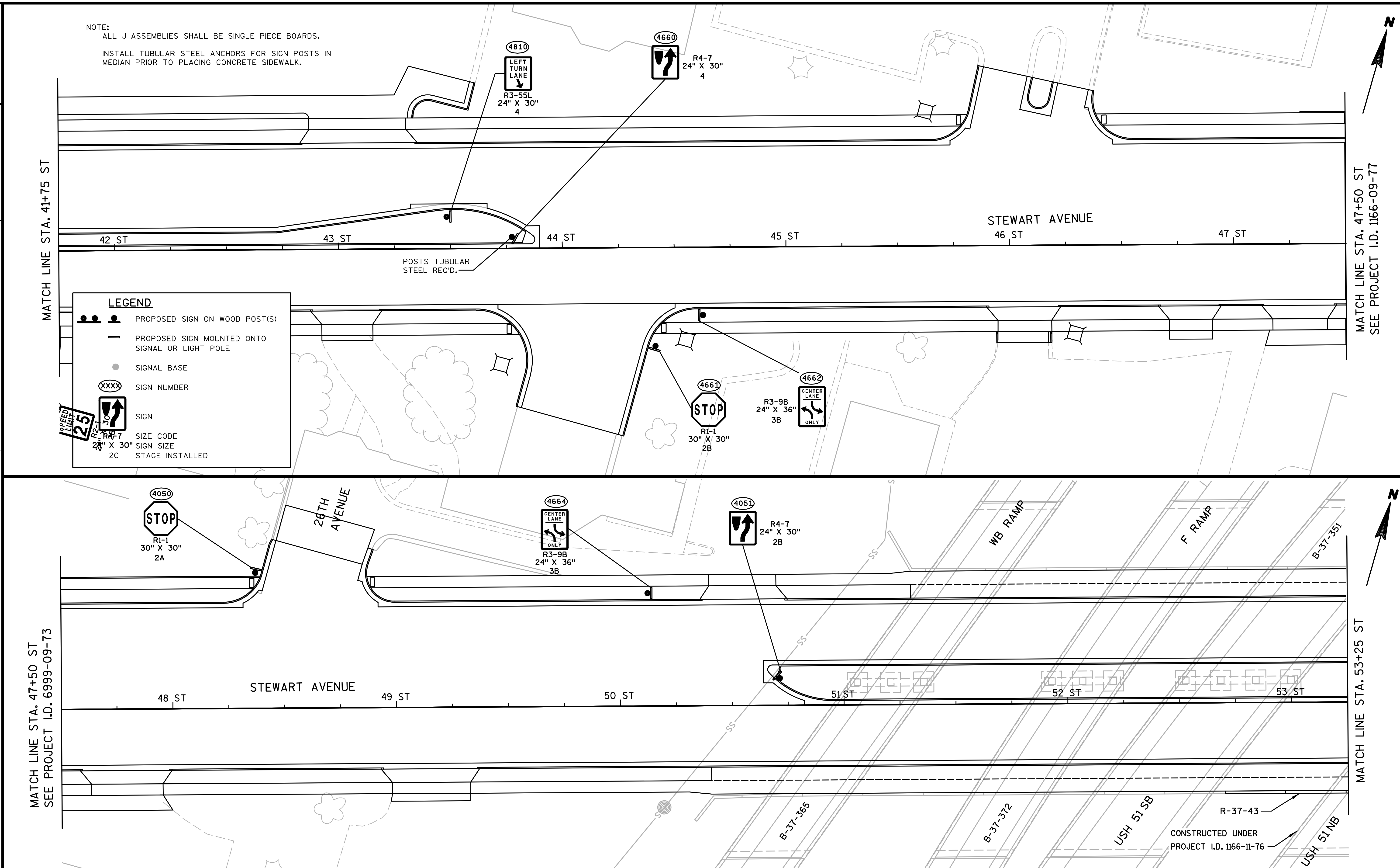
INSTALL TUBULAR STEEL ANCHORS FOR SIGN POSTS IN MEDIAN PRIOR TO PLACING CONCRETE SIDEWALK.

2

PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PERMANENT SIGNING	SHEET 58	E

NOTE:
ALL J ASSEMBLIES SHALL BE SINGLE PIECE BOARDS.

INSTALL TUBULAR STEEL ANCHORS FOR SIGN POSTS IN MEDIAN PRIOR TO PLACING CONCRETE SIDEWALK.



PROJECT NO:6999-09-73 & 1166-09-77	HWY: USH 51/STH 29	COUNTY: MARATHON	PERMANENT SIGNING	SHEET	E

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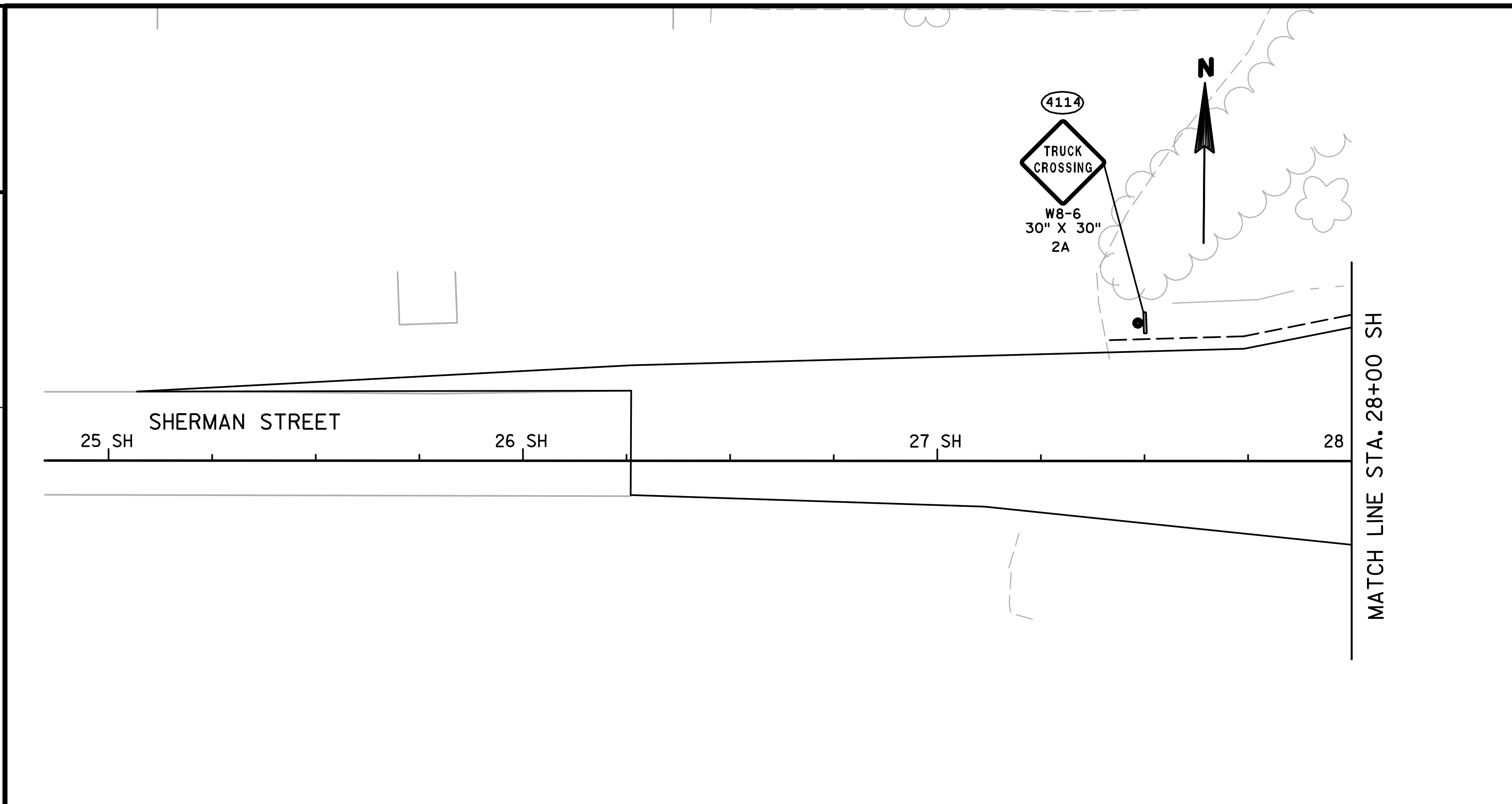
2



LEGEND

PROPOSED SIGN ON WOOD POST(S)

PROPOSED SIGN MOUNTED ONTO SIGNAL OR LIGHT POLE

SIGNAL BASE

XXXX SIGN NUMBER

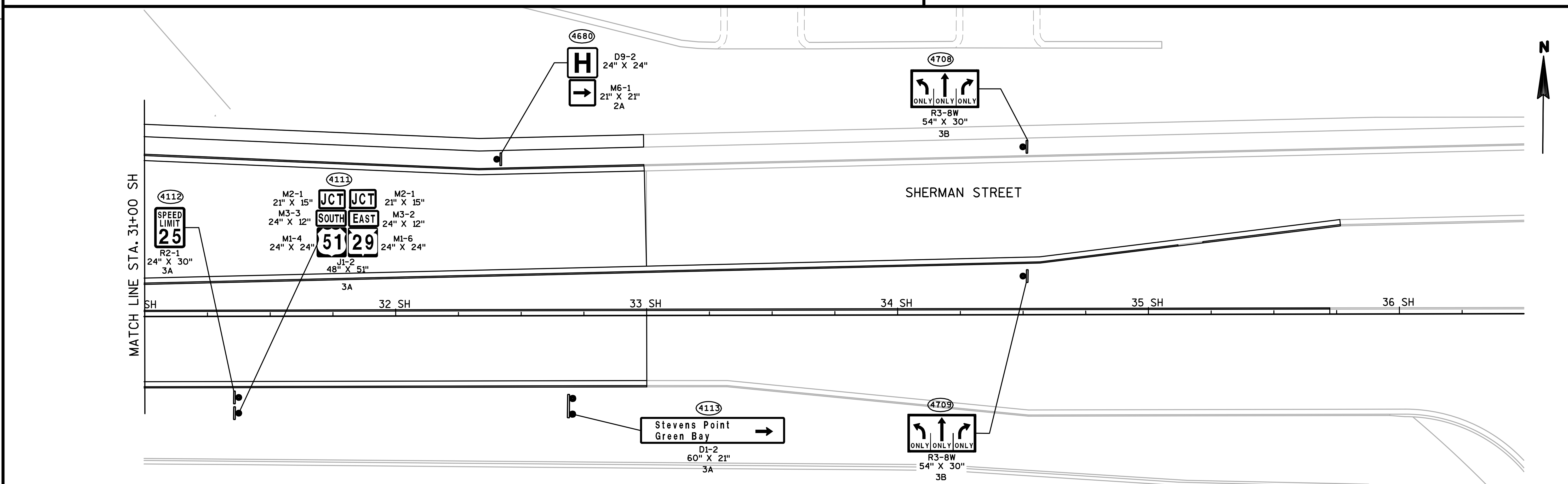
SIGN

R4-7 SIZE CODE
24" X 30" SIGN SIZE
2C STAGE INSTALLED

NOTE:
ALL J ASSEMBLIES SHALL BE SINGLE PIECE BOARDS.

INSTALL TUBULAR STEEL ANCHORS FOR SIGN POSTS IN MEDIAN PRIOR TO PLACING CONCRETE SIDEWALK.

2



PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PERMANENT SIGNING	SHEET 61	E

2

NOTES

1. ALL LUMINAIRES SHOWN ARE 120 VOLT, 250- WATT HIGH-PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUTOFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON 30 FOOT POLE WITH 12 FOOT MAST ARM UNLESS OTHERWISE NOTED.

2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.

3. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.

4. ALL LIGHTING SHOWN SHALL BE LOCALLY MAINTAINED.

5. ALL LIGHTING SYSTEM PULL BOXES SHALL BE BANDED TO GROUNDING CONDUCTOR, SEE S.D.D. PULL BOX.

6. EXTEND EXISTING BRIDGE PIER CONDUIT INSTALLED BY OTHERS TO NEW PULL BOX.

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

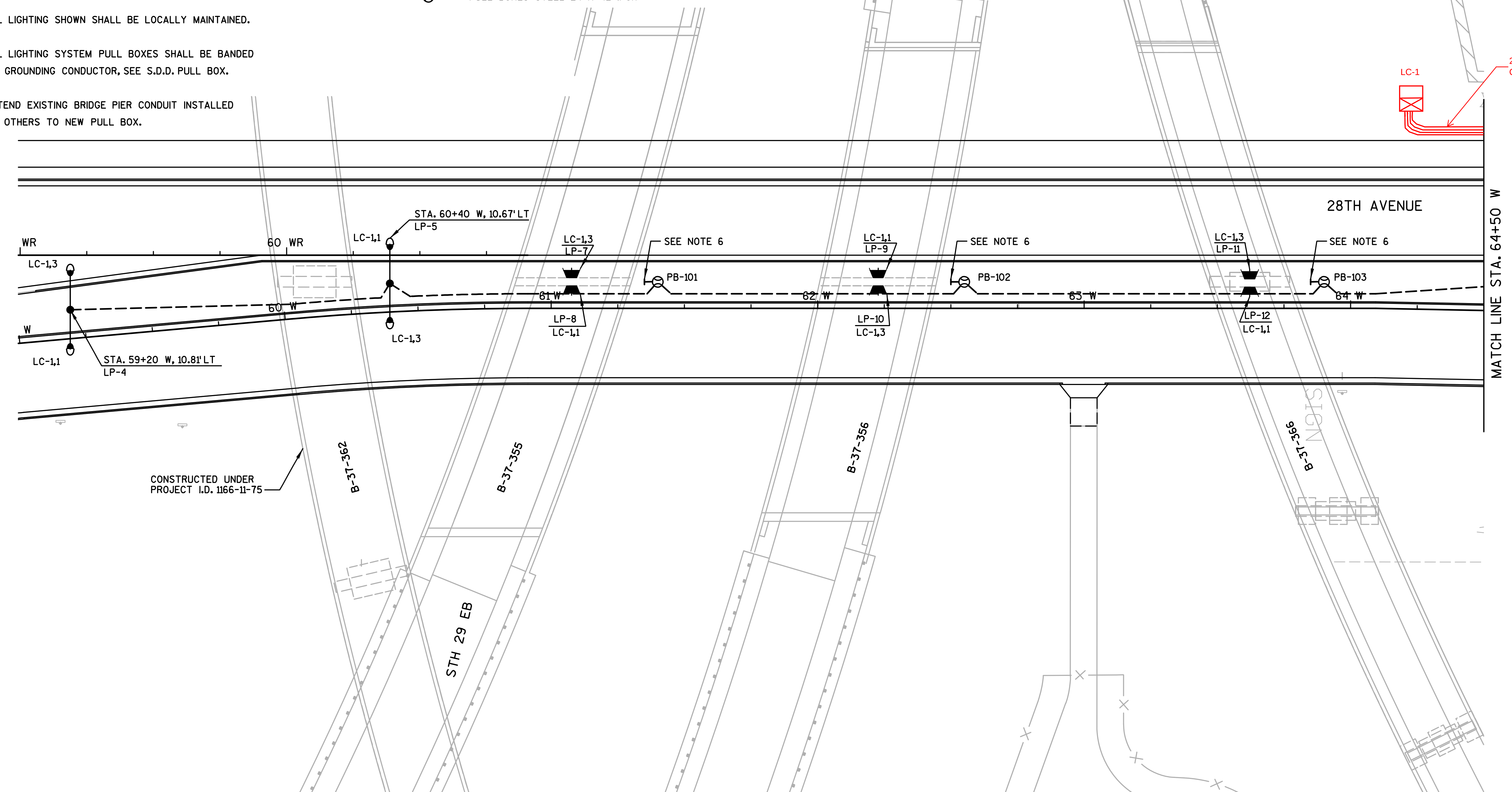
POLE, LUMINAIRE AND MAST ARM (LOCAL MAINTAINED)

LC-2, 1
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

UNDERDECK LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED)

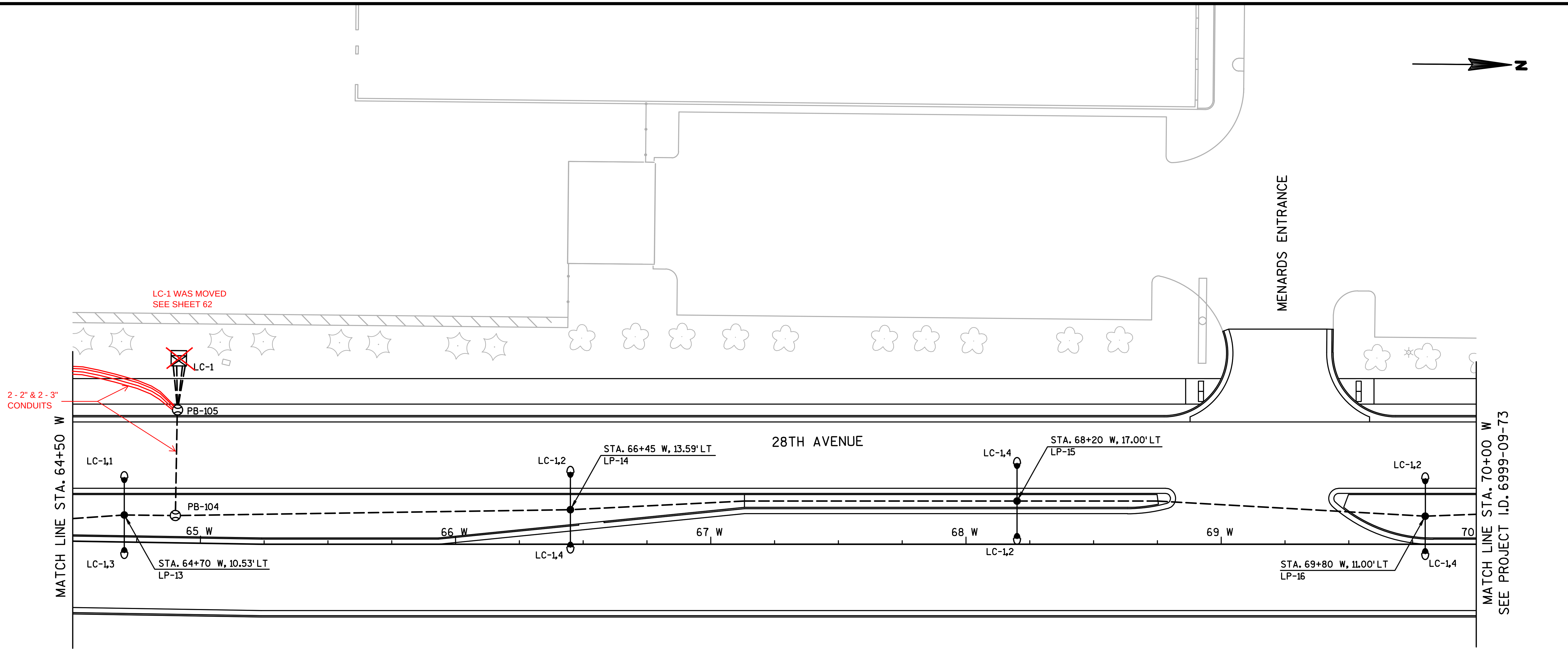
LC-2, 1
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

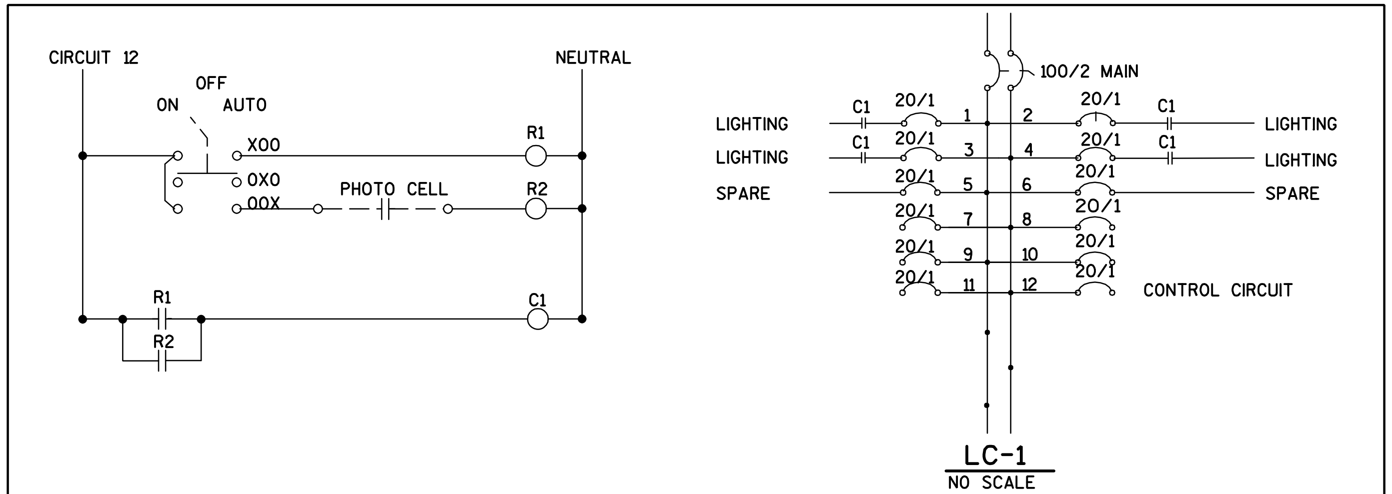
PULL BOXES STEEL 24 X 42 INCH



PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	LIGHTING PLAN - 28TH AVENUE (W)	SHEET 62	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\023501_lp.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42





LC-1 CONTROL SCHEMATIC
NO SCALE

NOTES

1. ALL LUMINAIRES SHOWN ARE 120 VOLT, 250- WATT HIGH-PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUTOFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON 30 FOOT POLE WITH 12 FOOT MAST ARM UNLESS OTHERWISE NOTED.

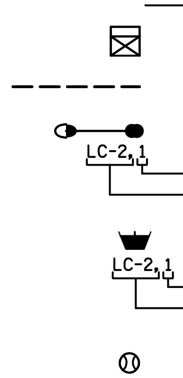
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.

3. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.

4. ALL LIGHTING SHOWN SHALL BE LOCALLY MAINTAINED.

5. ALL LIGHTING SYSTEM PULL BOXES SHALL BE BANDED TO GROUNDING CONDUCTOR, SEE S.D.D. PULL BOX.

LEGEND



CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

POLE, LUMINAIRE AND MAST ARM (LOCAL MAINTAINED)
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

UNDERDECK LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED)
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

PULL BOXES STEEL 24 X 42 INCH

PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	LIGHTING PLAN - 28TH AVENUE (W)	SHEET 63	E

NOTES

1. ALL LUMINAIRES SHOWN ARE 120 VOLT, 250- WATT HIGH-PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUTOFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON 30 FOOT POLE WITH 12 FOOT MAST ARM UNLESS OTHERWISE NOTED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
3. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.
4. ALL LIGHTING SHOWN SHALL BE LOCALLY MAINTAINED.
5. ALL LIGHTING SYSTEM PULL BOXES SHALL BE BANDED TO GROUDING CONDUCTOR, SEE S.D.D. PULL BOX.

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

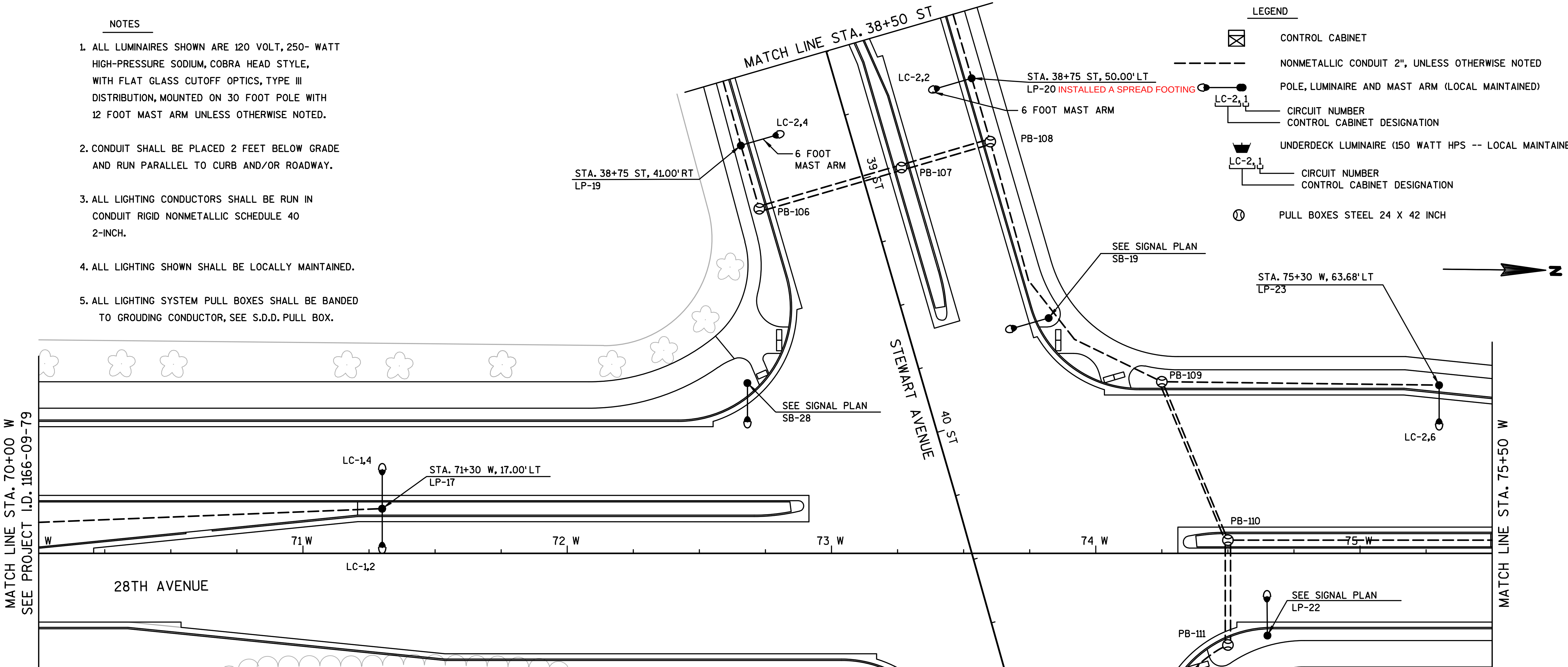
POLE, LUMINAIRE AND MAST ARM (LOCAL MAINTAINED)

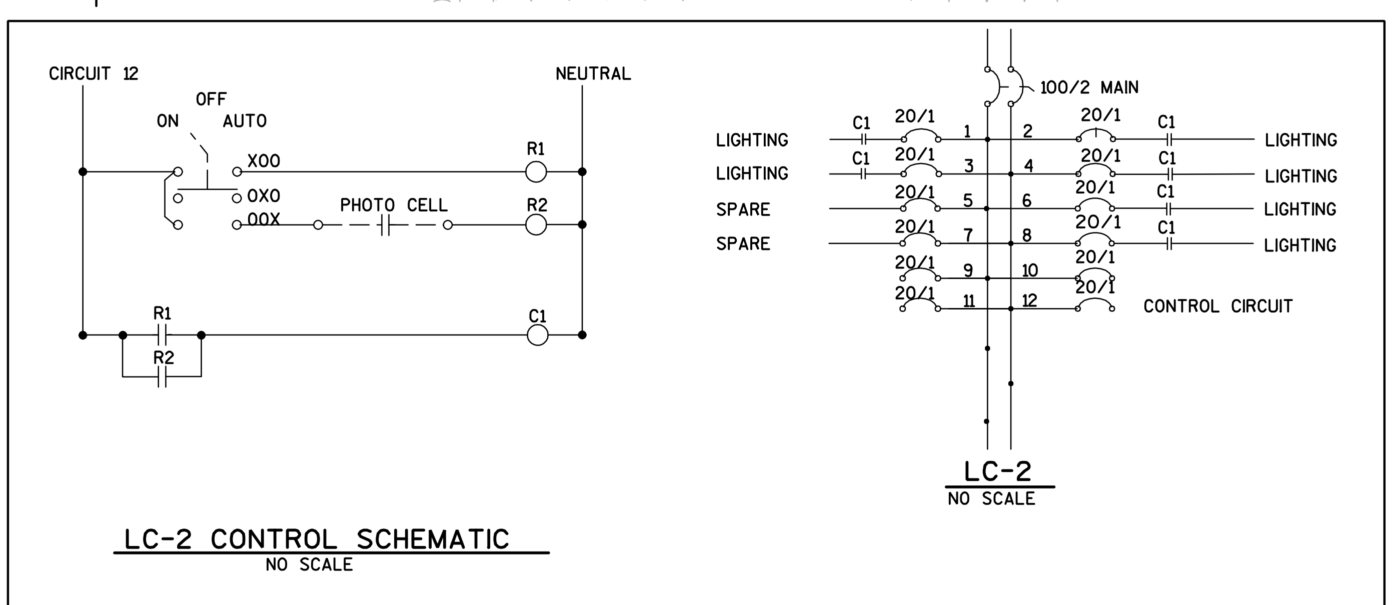
LC-2, 1 — CIRCUIT NUMBER / CONTROL CABINET DESIGNATION

UNDERDECK LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED)

LC-2, 1 — CIRCUIT NUMBER / CONTROL CABINET DESIGNATION

PULL BOXES STEEL 24 X 42 INCH





PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	LIGHTING PLAN - 28TH AVENUE (W)	SHEET 64	E

NOTES

1. ALL LUMINAIRES SHOWN ARE 120 VOLT, 250- WATT HIGH-PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUTOFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON 30 FOOT POLE WITH 12 FOOT MAST ARM UNLESS OTHERWISE NOTED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
3. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.
4. ALL LIGHTING SHOWN SHALL BE LOCALLY MAINTAINED.
5. ALL LIGHTING SYSTEM PULL BOXES SHALL BE BANDED TO GROUNDING CONDUCTOR, SEE S.D.D. PULL BOX.

N

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

POLE, LUMINAIRE AND MAST ARM (LOCAL MAINTAINED)

LC-2, 1

CIRCUIT NUMBER

CONTROL CABINET DESIGNATION

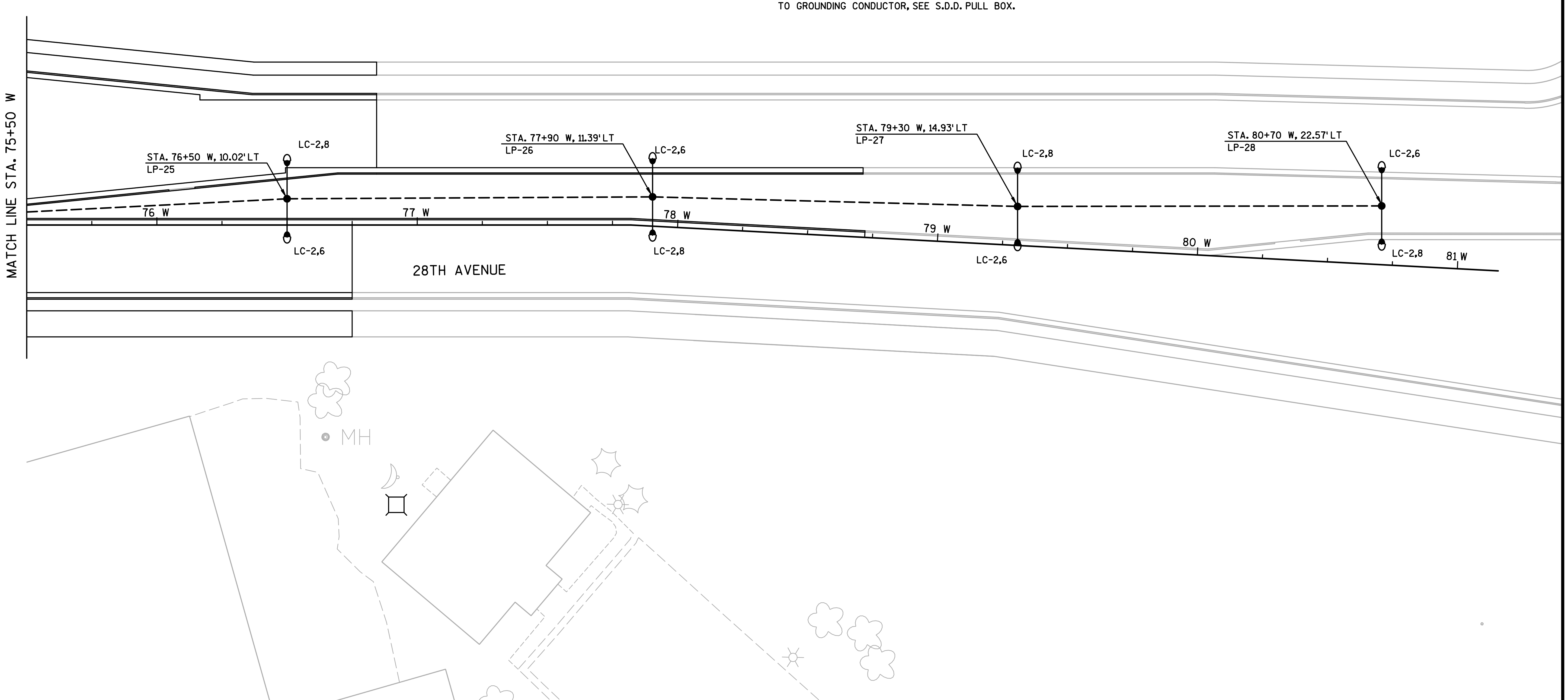
UNDERDECK LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED)

LC-2, 1

CIRCUIT NUMBER

CONTROL CABINET DESIGNATION

PULL BOXES STEEL 24 X 42 INCH



NOTES

1. ALL LUMINAIRES SHOWN ARE 120 VOLT, 250- WATT HIGH-PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUTOFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON 30 FOOT POLE WITH 12 FOOT MAST ARM UNLESS OTHERWISE NOTED.

2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.

3. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.

4. ALL LIGHTING SHOWN SHALL BE LOCALLY MAINTAINED.

5. ALL LIGHTING SYSTEM PULL BOXES SHALL BE BANDED TO GROUNDING CONDUCTOR, SEE S.D.D. PULL BOX.

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

POLE, LUMINAIRE AND MAST ARM (LOCAL MAINTAINED) (DECORATIVE)

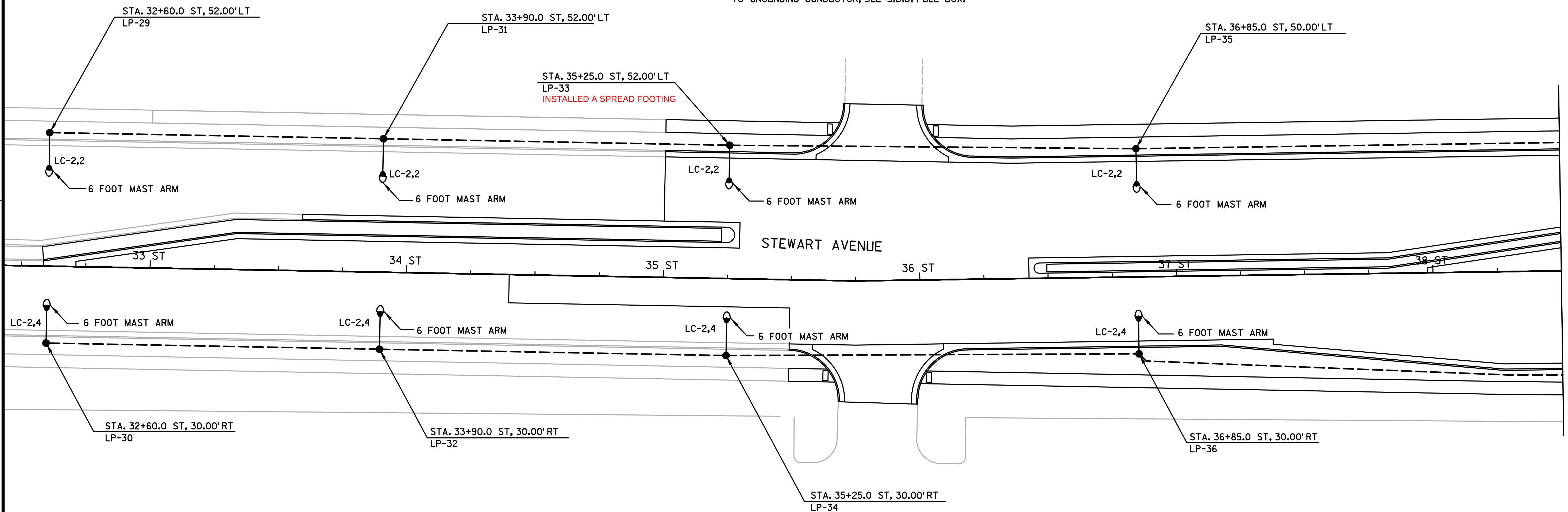
LC-2, 1
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

UNDERDECK LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED)

LC-2, 1
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

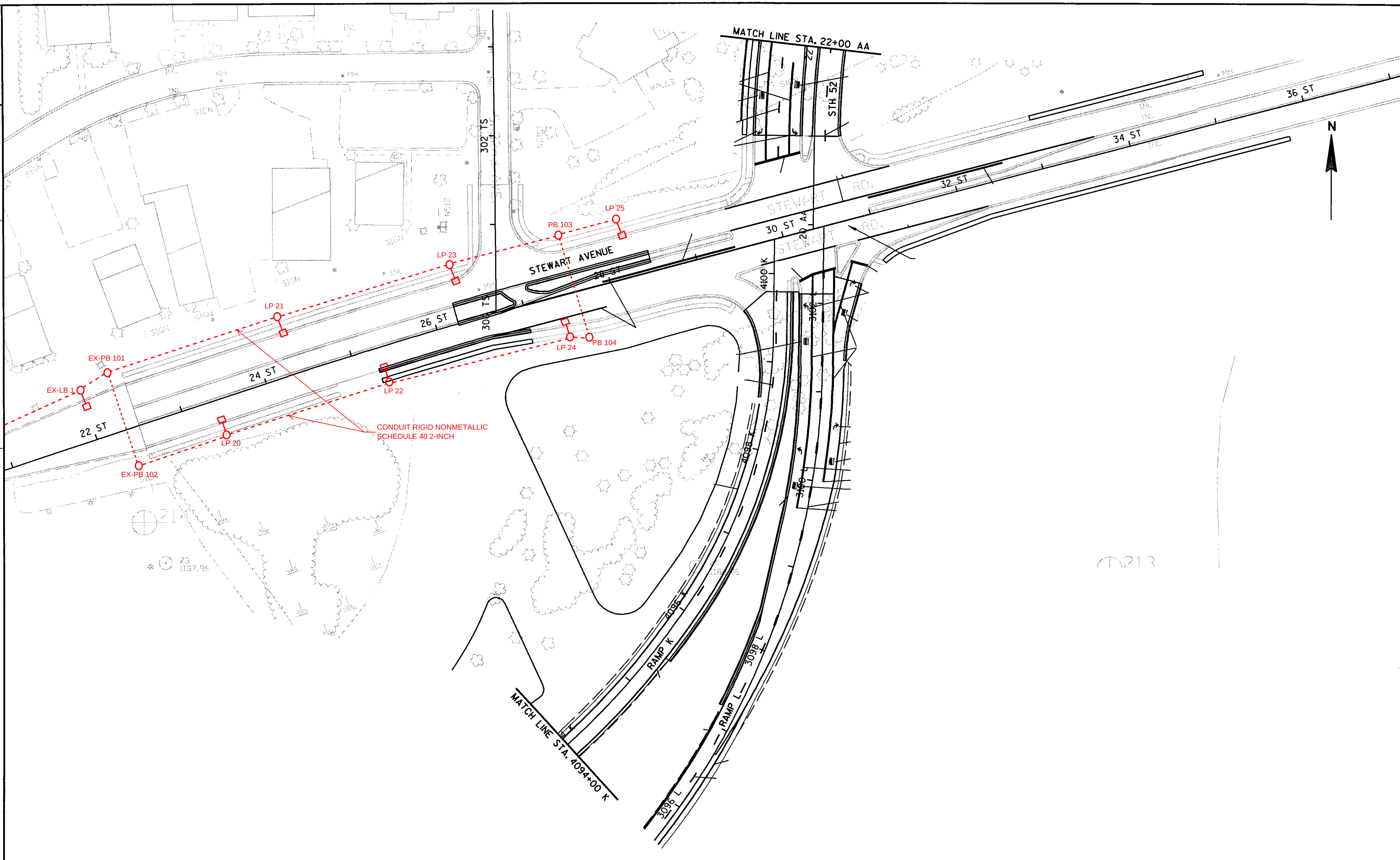
PULL BOXES STEEL 24 X 42 INCH

N



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	LIGHTING PLAN - STEWART AVENUE (ST)	SHEET 66	E

2



2

PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	LIGHTING PLAN - STEWART AVE	SHEET 66A	E

FILE NAME : L:\Jobs2001\20015020\D4_11661000EC\Design\1071\mil\024504_pm.dgn PLOT DATE : 07/15/2005 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. ALL DECORATIVE LUMINAIRES SHOWN ARE 120 VOLT, 250- WATT HIGH-PRESSURE SODIUM, DECORATIVE HEAD STYLE, WITH FLAT GLASS CUTOFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON 30 FOOT POLE WITH 10 FOOT MAST ARM UNLESS OTHERWISE NOTED.
2. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
3. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.
4. ALL LIGHTING SHOWN SHALL BE LOCALLY MAINTAINED.
5. ALL LIGHTING SYSTEM PULL BOXES SHALL BE BANDED TO GROUNDING CONDUCTOR, SEE S.D.D. PULL BOX.

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

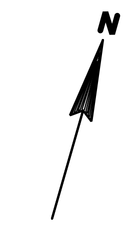
POLE, LUMINAIRE AND MAST ARM (LOCAL MAINTAINED) (DECORATIVE)

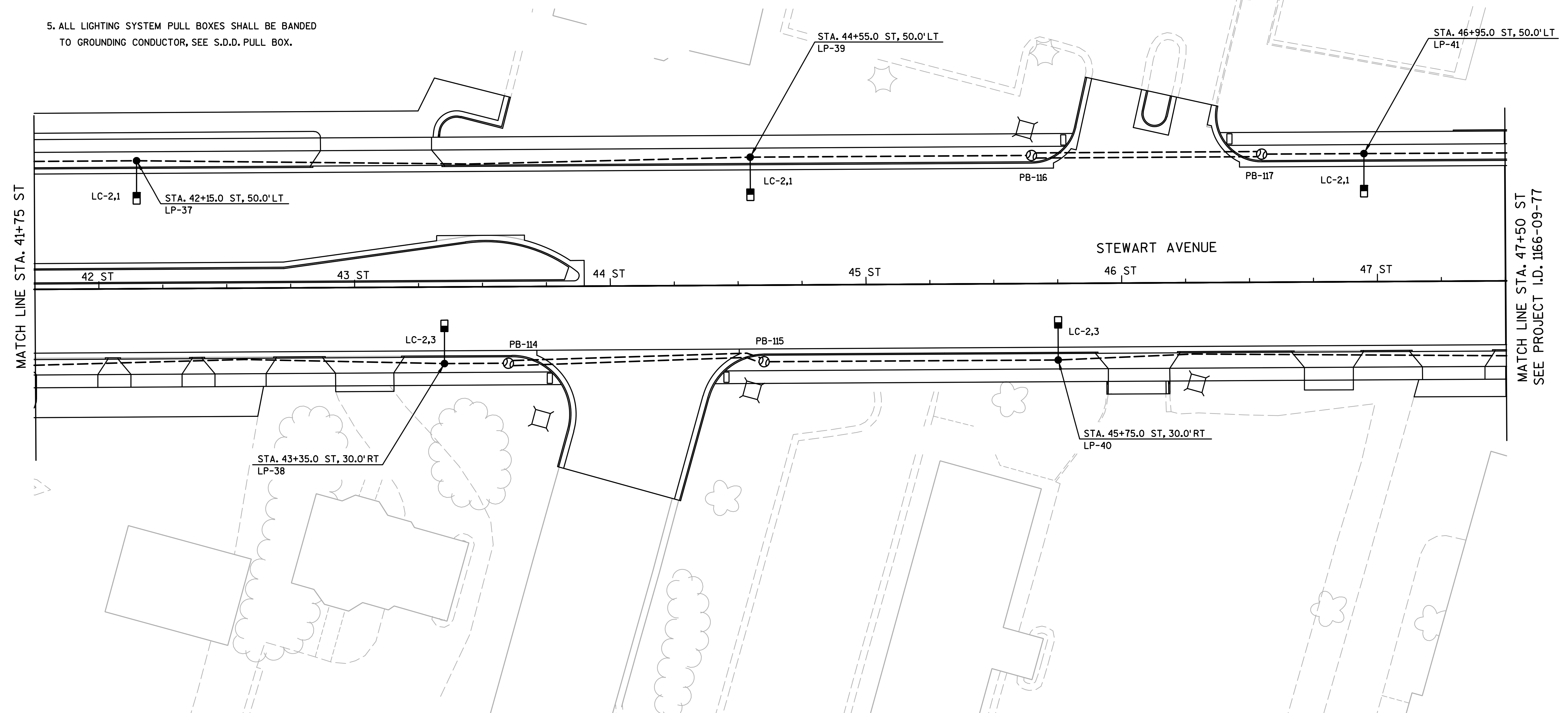
LC-2, 1
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

UNDERDECK LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED)

LC-2, 1
CIRCUIT NUMBER
CONTROL CABINET DESIGNATION

PULL BOXES STEEL 24 X 42 INCH





PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	LIGHTING PLAN - STEWART AVENUE (ST)	SHEET 67	E

2

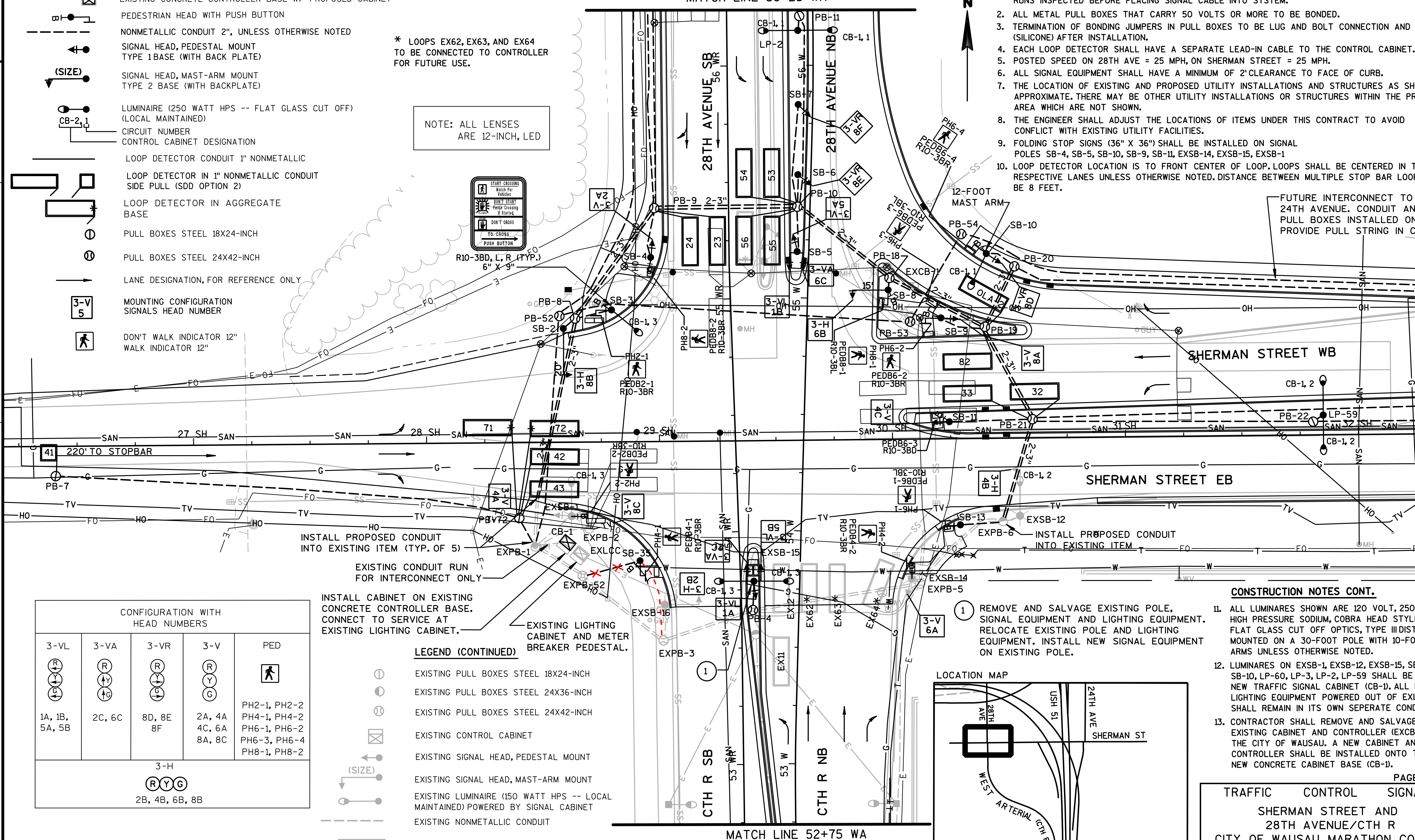
LEGEND

- EXISTING CONCRETE CONTROLLER BASE W/ PROPOSED CABINET
- PEDESTRIAN HEAD WITH PUSH BUTTON
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT TYPE 1 BASE (WITH BACK PLATE)
- (SIZE) SIGNAL HEAD, MAST-ARM MOUNT TYPE 2 BASE (WITH BACKPLATE)
- LUMINAIRE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
- CB-2, 1 — CIRCUIT NUMBER; CONTROL CABINET DESIGNATION
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
- LOOP DETECTOR IN AGGREGATE BASE
- PULL BOXES STEEL 18X24-INCH
- PULL BOXES STEEL 24X42-INCH
- LANE DESIGNATION, FOR REFERENCE ONLY
- 3-V 5 — MOUNTING CONFIGURATION; SIGNALS HEAD NUMBER
- DON'T WALK INDICATOR 12"; WALK INDICATOR 12"

EXISTING LUMINAIRES IN SEPARATE CTH R LIGHTING SYSTEM POWERED FROM EXLCC.

* LOOPS EX62, EX63, AND EX64 TO BE CONNECTED TO CONTROLLER FOR FUTURE USE.

NOTE: ALL LENSES ARE 12-INCH, LED



CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
5. POSTED SPEED ON 28TH AVE = 25 MPH, ON SHERMAN STREET = 25 MPH.
6. ALL SIGNAL EQUIPMENT SHALL HAVE A MINIMUM OF 2' CLEARANCE TO FACE OF CURB.
7. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
8. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
9. FOLDING STOP SIGNS (36" X 36") SHALL BE INSTALLED ON SIGNAL POLES SB-4, SB-5, SB-10, SB-9, SB-11, EXSB-14, EXSB-15, EXSB-1
10. LOOP DETECTOR LOCATION IS TO FRONT CENTER OF LOOP. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED. DISTANCE BETWEEN MULTIPLE STOP BAR LOOPS SHALL BE 8 FEET.

(1) REMOVE AND SALVAGE EXISTING POLE, SIGNAL EQUIPMENT AND LIGHTING EQUIPMENT. RELOCATE EXISTING POLE AND LIGHTING EQUIPMENT. INSTALL NEW SIGNAL EQUIPMENT ON EXISTING POLE.

CONSTRUCTION NOTES CONT.

11. ALL LUMINAIRES SHOWN ARE 120 VOLT, 250 WATT HIGH PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUT OFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON A 30-FOOT POLE WITH 10-FOOT MAST ARMS UNLESS OTHERWISE NOTED.
12. LUMINARES ON EXSB-1, EXSB-12, EXSB-15, SB-3, SB-10, LP-60, LP-3, LP-2, LP-59 SHALL BE WIRED TO NEW TRAFFIC SIGNAL CABINET (CB-1). ALL EXISTING LIGHTING EQUIPMENT POWERED OUT OF EXLCC SHALL REMAIN IN ITS OWN SEPERATE CONDUIT SYSTEM.
13. CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING CABINET AND CONTROLLER (EXCB-1) TO THE CITY OF WAUSAU. A NEW CABINET AND CONTROLLER SHALL BE INSTALLED ONTO THE NEW CONCRETE CABINET BASE (CB-1).

CONFIGURATION WITH HEAD NUMBERS

3-VL	3-VA	3-VR	3-V	PED
1A, 1B, 5A, 5B	2C, 6C	8D, 8E 8F	2A, 4A 4C, 6A 8A, 8C	PH2-1, PH2-2 PH4-1, PH4-2 PH6-1, PH6-2 PH6-3, PH6-4 PH8-1, PH8-2
3-H: 2B, 4B, 6B, 8B				

LEGEND (CONTINUED)

- EXISTING PULL BOXES STEEL 18X24-INCH
- EXISTING PULL BOXES STEEL 24X36-INCH
- EXISTING PULL BOXES STEEL 24X42-INCH
- EXISTING CONTROL CABINET
- EXISTING SIGNAL HEAD, PEDESTAL MOUNT
- (SIZE) EXISTING SIGNAL HEAD, MAST-ARM MOUNT
- EXISTING LUMINAIRE (150 WATT HPS -- LOCAL MAINTAINED) POWERED BY SIGNAL CABINET
- EXISTING NONMETALLIC CONDUIT
- EXISTING LOOP DETECTOR

LOCATION MAP

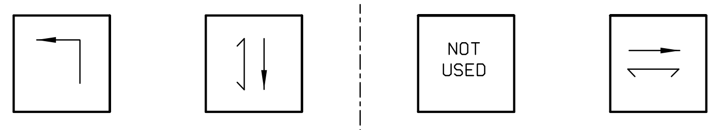
28TH AVE
USH 51
24TH AVE
SHERMAN ST
WEST ARTERIAL (CTH R)

PAGE 1 OF 3

TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND 28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY
SIGNAL NO. LOCAL   SCALE 0 20

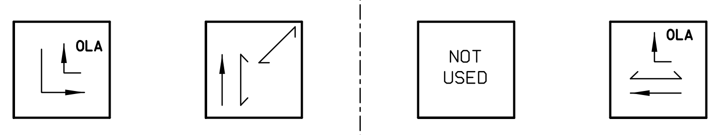
PROJECT NO: 1166-09-79	HWY: USH 51 / STH 29	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET 70	E

SEQUENCE OF OPERATION



RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø1 CLEAR TO	Ø2 R/W	Ø2 CLEAR TO **	Ø2 CLEAR TO	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	Ø4 CLEAR TO	FLASH
Ø1	1A, 1B	G	Y	R	R	R	R			R	R	R	R
Ø2	2A, 2B, 2C	R	R	R	G	Y	R			R	R	R	Y
Ø3													
Ø4	4A, 4B, 4C	R	R	R	R	R	R			G	Y	R	R
Ø5	5A, 5B	R	R	R	R	R	R			R	R	R	R
Ø6	6A, 6B, 6C	R	R	R	R	R	R			R	R	R	Y
Ø7													
Ø8	8A, 8B, 8C	R	R	R	R	R	R			R	R	R	R
Ø2P	PH2-1, PH2-2	DW	DW	DW	*	DW	DW			DW	DW	DW	-
Ø4P	PH4-1, PH4-2	DW	DW	DW	DW	DW	DW			*	DW	DW	-
Ø6P	PH6-1, PH6-2	DW	DW	DW	DW	DW	DW			DW	DW	DW	-
Ø6P	PH6-3, PH6-4	DW	DW	DW	DW	DW	DW			DW	DW	DW	-
Ø8P	PH8-1, PH8-2	DW	DW	DW	DW	DW	DW			DW	DW	DW	-
OLA	8D, 8E, 8F	-	-	-	-	-	-			-	-	-	-



RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø5 CLEAR TO	Ø6 R/W	Ø6 CLEAR TO **	Ø6 CLEAR TO	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **	Ø8 CLEAR TO
Ø1	1A, 1B	R	R	R	R	R	R			R	R	R
Ø2	2A, 2B, 2C	R	R	R	R	R	R			R	R	R
Ø3												
Ø4	4A, 4B, 4C	R	R	R	R	R	R			R	R	R
Ø5	5A, 5B	G	Y	R	R	R	R			R	R	R
Ø6	6A, 6B, 6C	R	R	R	G	Y	R			R	R	R
Ø7												
Ø8	8A, 8B, 8C	R	R	R	R	R	R			G	Y	R
Ø2P	PH2-1, PH2-2	DW	DW	DW	DW	DW	DW			DW	DW	DW
Ø4P	PH4-1, PH4-2	DW	DW	DW	DW	DW	DW			DW	DW	DW
Ø6P	PH6-1, PH6-2	DW	DW	DW	*	DW	DW			DW	DW	DW
Ø6P	PH6-3, PH6-4	DW	DW	DW	*	DW	DW			DW	DW	DW
Ø8P	PH8-1, PH8-2	DW	DW	DW	DW	DW	DW			*	DW	DW
OLA	8D, 8E, 8F	G	Y	-	-	-	-			G	Y	-

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5, 6, OLA	2, 4, 8
Ø2	5, 6, OLA	1, 4, 8
Ø3		
Ø4	8, OLA	1, 2, 5, 6
Ø5	1, 2, OLA	4, 6, 8
Ø6	1, 2, OLA	4, 5, 8
Ø7		
Ø8	4, OLA	1, 2, 5, 6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
EX11**	1	X			1	1				6X20	
EX12**	1	X			1	1				6X20	
21	2	X			2	2				6X6	5
22	2	X			2	2				6X6	3
QC1***	3	X			QUEUE	QUEUE				6X6	5
QC2***	3	X			QUEUE	QUEUE				6X6	5
QC3***	4	X			QUEUE	QUEUE				6X6	5
QC4***	4	X			QUEUE	QUEUE				6X6	5
23****	5	X			2	2				6X20	3
24****	5	X			2	2				6X20	3
31	6			X		8			X	6X6	6
32	7	X			8	8				6X20	3
33	8	X			8	8				6X20	3
41	9			X		4			X	6X6	4
42	10	X			4	4				6X20	3
43	11	X			4	4		X		6X20	3
51	12			X		5			X	6X6	6
52	12			X		5			X	6X6	6
53	13	X			5	5				6X20	3
54	13	X			5	5				6X20	3
55	13	X			5	5				6X20	3
56	13	X			5	5				6X20	3
EX61*	14	X			6	6				6X20	
EX62*	15	X			6	6				6X20	
EX63*	15	X			6	6				6X20	
EX64*	16	X			6	6		X		6X20	
71	17	X			4	4				6X20	3
72	18	X			4	4				6X20	3
81	19			X		8			X	6X6	6
82	20	X			8	8				6X20	3
OLA-1	21			X		8			X	6X6	6
OLA-2	22		X		8			X		6X20	3

* LOOP TO BE CONNECTED TO CONTROLLER FOR FUTURE USE.
** EXISTING LOOP TO BE CONNECTED.
*** TO BE USED FOR QUEUE CUTTER BEACON.
**** LOOPS TO BE USED DURING RAILROAD PRE-EMPT SEQUENCE.

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IN THE EVENT OF A RAILROAD PRE-EMPTION CALL, PHASE 2 AND PHASE 5 SHALL RECEIVE A GREEN INDICATION TO CLEAR THE NORTH APPROACH. FOLLOWING THE TRACK CLEAROUT INTERVAL, THE CONTROLLER SHALL ADVANCE TO PHASES 4 & 8 GREEN. DURING PRE-EMPTION, THE DWELL INTERVALS LISTED IN THE RAILROAD PRE-EMPT SEQUENCE CHART TO THE RIGHT MAY ALTERNATE WITH EACH OTHER PROVIDED THERE IS A CALL FOR THOSE PHASES. AT THE END OF PRE-EMPTION, THE CONTROLLER SHALL RETURN TO PHASES 2 & 6 GREEN.
4. BLANK OUT SIGNS SHALL ONLY BE ACTIVATED DURING RAILROAD PRE-EMPTION.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL
1		6	
2	X	6	MIN
3			
4		8	
5		2, OLA	
6	X	2	MIN
7			
8		4, OLA	

OVERLAPS

O.L. "A" = 5
O.L. "B" = -
O.L. "C" = -
O.L. "D" = -

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

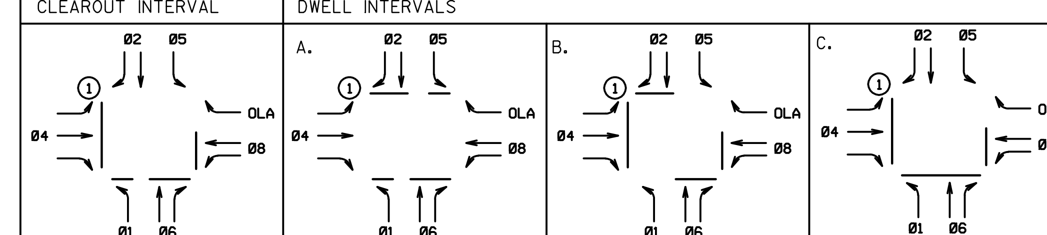
FUTURE PLANS FOR CLOSED LOOP SYSTEM

TYPE OF PRE-EMPT	
NONE	
RAILROAD	X
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

RAILROAD PRE-EMPT SEQUENCE

CLEAROUT INTERVAL | DWELL INTERVALS



① FIBER OPTIC BLANK OUT SIGN (NO LEFT TURN)

SHERMAN STREET/28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL

DATE SHEET NO. 2 OF 3

2

CABLE TRAFFIC SIGNAL - 14 AWG

PROJECT ID:	1166-09-79
INTERSECTION:	SHERMAN ST. / 28TH AVE.

SIGNAL WIRE COLOR CODING			
	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB-1 TO:	JUMPER	AWG 14 # OF CONDUCTORS	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	NO LEFT
					RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	D/WALK	WALK		
EXSB-1		15	4A	4	RED	ORG	GRN							
			8C	8	RED/GRN	ORG/RED	BLU/WHT							
			PH4-1	4P							BLK/WHT	BLU/BLK		
			PEDB4-1	4P									WHT/RED	
			PEDB2-3	2P									BLU/RED	
EXSB-16		12	2B	2	RED/BLK	ORG/BLK	GRN/BLK							
			PH2-2	2P							BLK/WHT	BLU/BLK		
SB-2		21	8B	8	RED/GRN	ORG/RED	BLU/WHT							
	SB-3	12	PH2-1	2P							BLK/WHT	BLU/BLK		
			PEDB2-1	2P									WHT/RED	
			PH8-2	8P							RED	ORG		
	SB-4	7	2A	2	RED/BLK	ORG/BLK	GRN/BLK							
			PEDB8-2	8P									BLU/RED	
SB-5		21	1B	1				RED	ORG	GRN				
			5A	5				BLU	WHT/BLK	BLU/BLK				
			6C	6	RED/BLK	ORG/BLK	GRN/BLK							
	SB-6	7	8E	8	RED/GRN									
				OLA					ORG/RED	BLU/WHT				
	SB-7	7	8F	8	BLK/RED									
				OLA					WHT/RED	BLU/RED				
SB-9		21	8A	8	RED/GRN	ORG/RED	BLU/WHT							
			PH6-2	6P							BLK/WHT	BLU/BLK		
			PEDB6-2	6P									WHT/RED	
			PH6-3	6P							RED	ORG		
			PEDB6-3	6P									BLU/RED	
	SB-8	12	6B	6	RED/BLK	ORG/BLK	GRN/BLK							
			PH8-1	8P							ORG/GRN	RED/GRN		
			PEDB8-1	8P									BLK	
SB-10		12	8D	8	RED									
				OLA					GRN	ORG				
			PH6-4	6P							BLU	WHT/BLK		
			PEDB6-4	6P									RED/BLK	
SB-11		7	4C	4	RED	ORG	GRN							
			PEDB6-3	6P									WHT/RED	
			RLB	RR										RED/BLK
EXSB-14		21	6A	6	RED/BLK	ORG/BLK	GRN/BLK							
	SB-13	12	PH4-2	4P							BLK/WHT	BLU/BLK		
			PEDB4-2	4P									WHT/RED	
			PH6-1	6P							ORG/GRN	RED/GRN		
			PEDB6-1	6P									BLU/RED	
	EXSB-12	12	4B	4	RED	ORG	GRN							
			RLA	RR										GRN/WHT
EXSB-15		15	1A	1				RED	ORG	GRN				
			2C	2	RED/BLK	ORG/BLK	GRN/BLK							
			5B	5				BLU	WHT/BLK	BLU/BLK				
EXFB-2		5	A*	-		RED								
	FB-1	5	B*	-		ORG								

* Queue cutter beacon indications to be connected to flasher beacon equipment (See construction detail)

SIGNAL LOCAL
SHERMAN ST. / 28TH AVE.

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB-1	EXSB-1
EXSB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-7
SB-7	SB-6
SB-6	SB-5
SB-5	LP-2
LP-2	LP-3
LP-3	SB-8
SB-8	SB-9
SB-9	SB-10
SB-10	SB-11
SB-11	LP-59
LP-59	LP-60
LP-60	EXSB-12
EXSB-12	SB-13
SB-13	EXSB-14
EXSB-14	EXSB-15
EXSB-15	EXSB-16
EXSB-16	CB-1

SIGNAL LOCAL
SHERMAN ST. / 28TH AVE.

UF 12-2 W/GROUND	
FROM	TO
CB-1	EXSB-1
CB-1	SB-3
CB-1	SB-10
CB-1	LP-5
CB-1	LP-59
CB-1	LP-60

SIGNAL LOCAL
SHERMAN ST. / 28TH AVE.

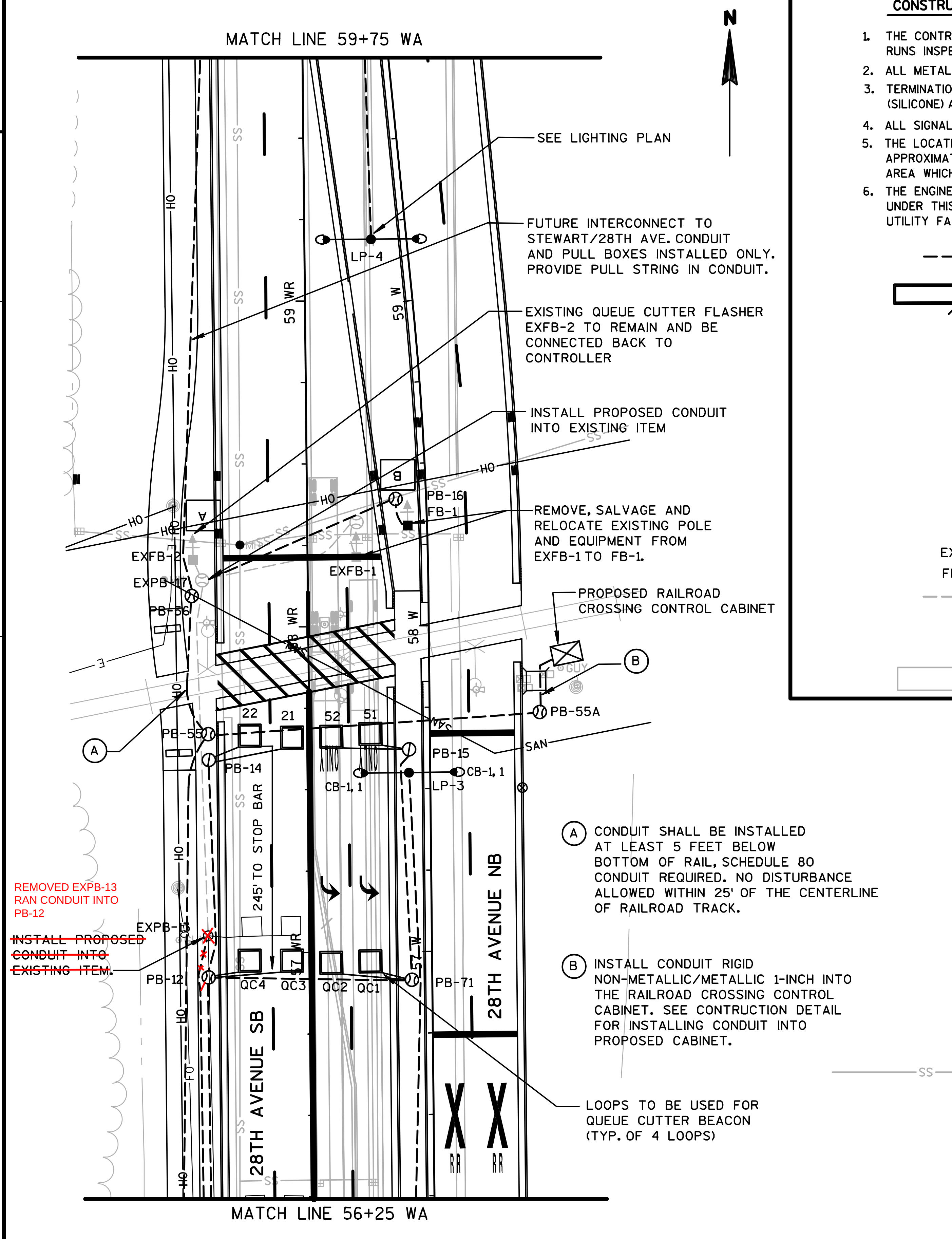
PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
EXSB-1	EXPB-2
SB-2	PB-8
SB-4	PB-9
SB-6	PB-10
LP-2	PB-11
SB-8	PB-18
SB-9	PB-19
SB-10	PB-20
SB-11	PB-21
LP-59	PB-22
EXSB-12	EXPB-6
EXSB-14	EXPB-5
EXSB-15	EXPB-4
EXSB-16	EXPB-3
FB-1	PB-16
EXFB-2	EXPB-17

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.

*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.

*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

2



Ⓐ CONDUIT SHALL BE INSTALLED AT LEAST 5 FEET BELOW BOTTOM OF RAIL, SCHEDULE 80 CONDUIT REQUIRED. NO DISTURBANCE ALLOWED WITHIN 25' OF THE CENTERLINE OF RAILROAD TRACK.

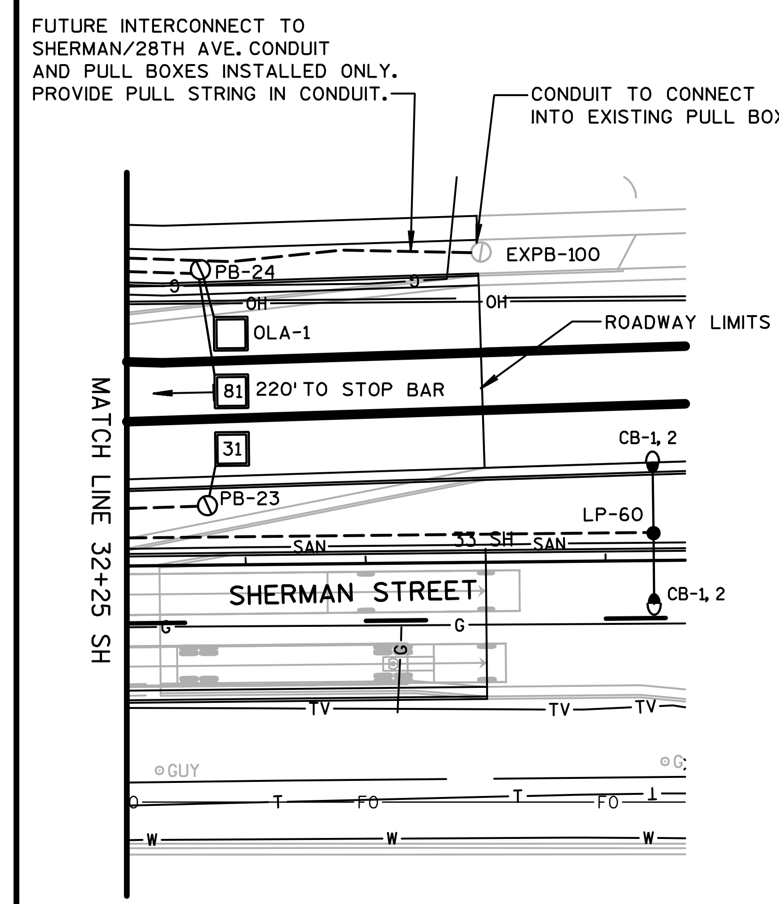
Ⓑ INSTALL CONDUIT RIGID NON-METALLIC/METALLIC 1-INCH INTO THE RAILROAD CROSSING CONTROL CABINET. SEE CONTRUCTION DETAIL FOR INSTALLING CONDUIT INTO PROPOSED CABINET.

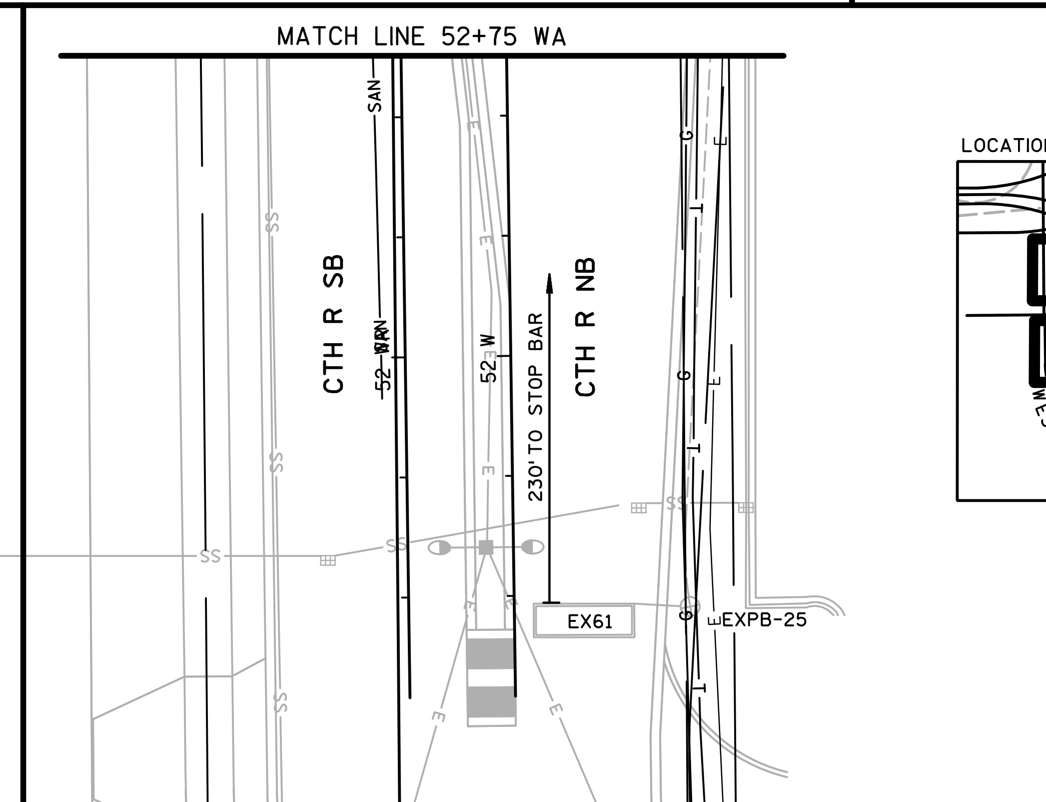
CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. ALL SIGNAL EQUIPMENT SHALL HAVE A MINIMUM OF 2' CLEARANCE TO FACE OF CURB.
5. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
6. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

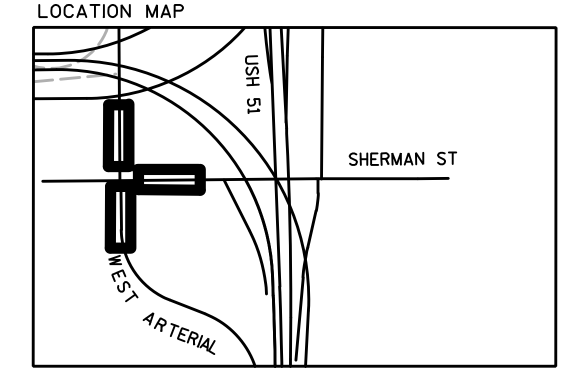
LEGEND

	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
PB	PULL BOXES STEEL 18X24-INCH
PB	PULL BOXES STEEL 24X42-INCH
B	MOUNTING CONFIGURATION HEAD LETTER FOR QUEUE CUTTER BEACON
SB	LUMINAIRE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
CB-2, 1	CIRCUIT NUMBER CONTROL CABINET DESIGNATION
	EXISTING LUMINAIRES IN SEPARATE CTH R LIGHTING SYSTEM POWERED FROM EXLCC.
EXFB	EXISTING QUEUE CUTTER FLASHER ON NEW TYPE 1 BASE
FB	EXISTING QUEUE CUTTER FLASHER
	EXISTING NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
EXPB	EXISTING PULL BOXES STEEL 18X24-INCH
EXPB	EXISTING PULL BOXES STEEL 24X36-INCH
	EXISTING LOOP DETECTOR





LOCATION MAP

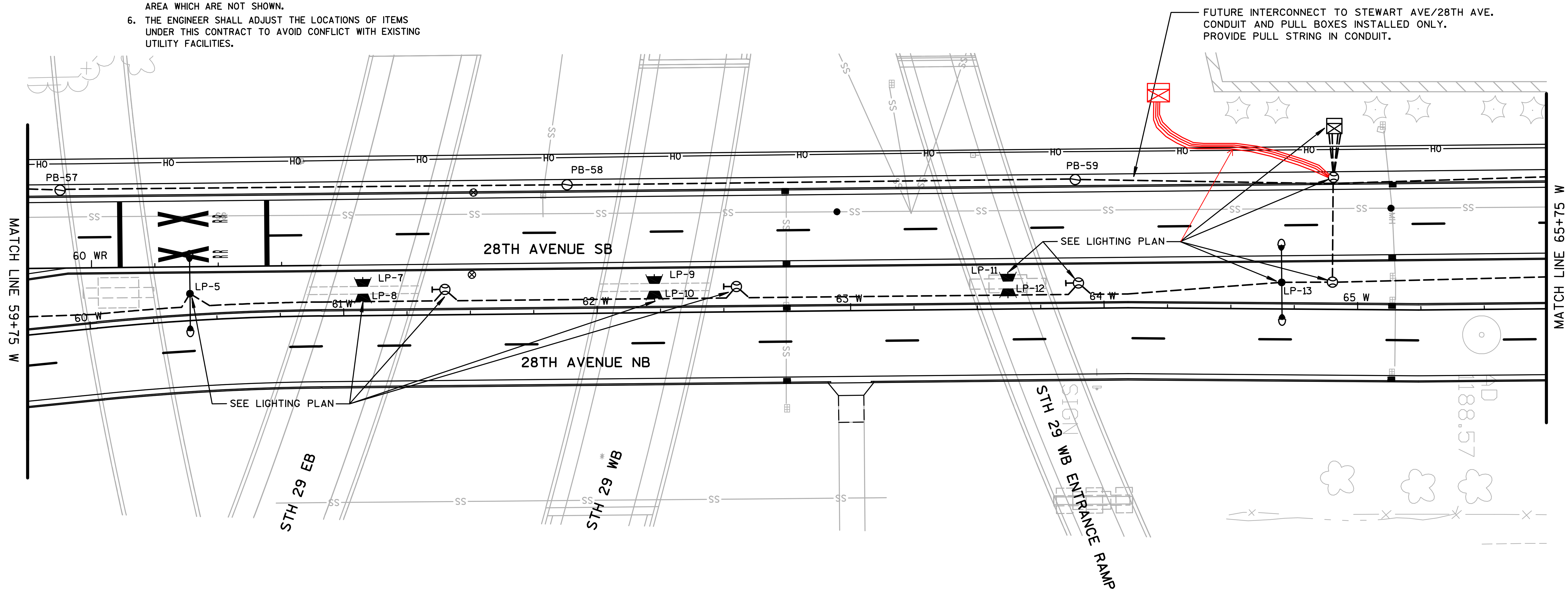


TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND 28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY
SIGNAL NO. LOCAL
SCALE 0 20

2

CONSTRUCTION NOTES

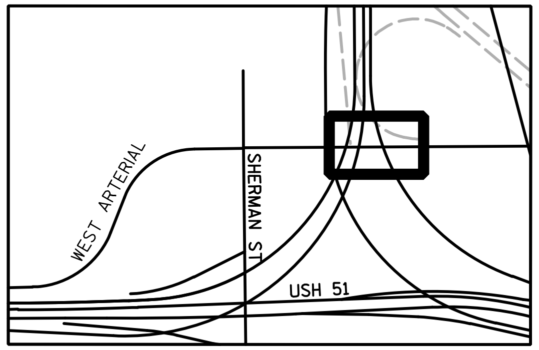
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. ALL SIGNAL EQUIPMENT SHALL HAVE A MINIMUM OF 2' CLEARANCE TO FACE OF CURB.
5. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
6. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.



LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
- PULL BOXES STEEL 18X24-INCH
- PULL BOXES STEEL 24X42-INCH
- LUMINAIRE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
- UNDERDECK LUMINAIRE (150 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
- LIGHTING CONTROL CABINET

LOCATION MAP



TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND 28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY
SIGNAL NO. LOCAL
SCALE 0 20

PROJECT NO: 1166-09-79	HWY: USH 51 / STH 29	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET 74	E

2

CONSTRUCTION NOTES

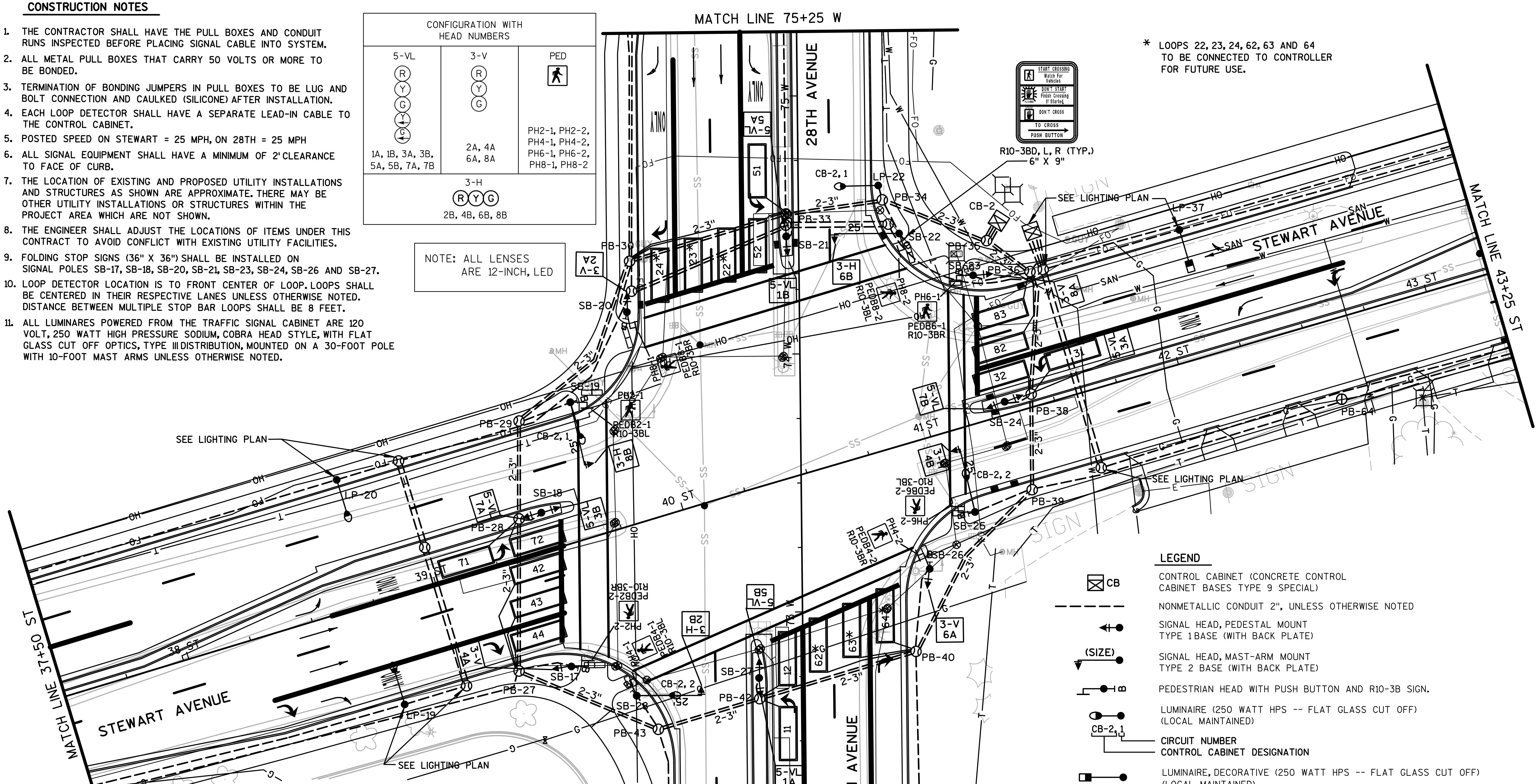
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
5. POSTED SPEED ON STEWART = 25 MPH, ON 28TH = 25 MPH
6. ALL SIGNAL EQUIPMENT SHALL HAVE A MINIMUM OF 2' CLEARANCE TO FACE OF CURB.
7. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
8. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
9. FOLDING STOP SIGNS (36" X 36") SHALL BE INSTALLED ON SIGNAL POLES SB-17, SB-18, SB-20, SB-21, SB-23, SB-24, SB-26 AND SB-27.
10. LOOP DETECTOR LOCATION IS TO FRONT CENTER OF LOOP. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED. DISTANCE BETWEEN MULTIPLE STOP BAR LOOPS SHALL BE 8 FEET.
11. ALL LUMINAIRES POWERED FROM THE TRAFFIC SIGNAL CABINET ARE 120 VOLT, 250 WATT HIGH PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUT OFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON A 30-FOOT POLE WITH 10-FOOT MAST ARMS UNLESS OTHERWISE NOTED.

CONFIGURATION WITH HEAD NUMBERS

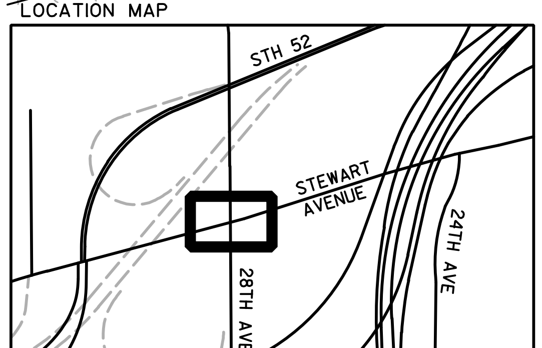
5-VL	3-V	PED
R Y G Y G	R Y G	
1A, 1B, 3A, 3B, 5A, 5B, 7A, 7B	2A, 4A 6A, 8A	PH2-1, PH2-2, PH4-1, PH4-2, PH6-1, PH6-2, PH8-1, PH8-2
3-H		
R Y G		
2B, 4B, 6B, 8B		

NOTE: ALL LENSES ARE 12-INCH, LED

* LOOPS 22, 23, 24, 62, 63 AND 64 TO BE CONNECTED TO CONTROLLER FOR FUTURE USE.



LOCATION MAP



LEGEND

CB	CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL)
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
	SIGNAL HEAD, PEDESTAL MOUNT TYPE 1 BASE (WITH BACK PLATE)
(SIZE)	SIGNAL HEAD, MAST-ARM MOUNT TYPE 2 BASE (WITH BACK PLATE)
	PEDESTRIAN HEAD WITH PUSH BUTTON AND R10-3B SIGN.
	LUMINAIRE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
CB-2, 1	CIRCUIT NUMBER CONTROL CABINET DESIGNATION
	LUMINAIRE, DECORATIVE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
	LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
	PULL BOXES STEEL 18X24-INCH
	PULL BOXES STEEL 24X42-INCH
3-V 5	MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
	DON'T WALK INDICATOR 12" WALK INDICATOR 12"
	LANE DESIGNATION, FOR REFERENCE ONLY

N

PAGE 1 OF 3

TRAFFIC CONTROL SIGNAL
STEWART AVENUE & 28TH AVENUE

CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

2

2

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **		Ø2 R/W	Ø2 CLEAR TO **		Ø3 R/W	Ø3 CLEAR TO **		Ø4 R/W	Ø4 CLEAR TO **		FLASH
Ø1	1A, 1B	G	Y	-	-	-	-	-	-	-	-	-	-	-
Ø2	2A, 2B, 5A, 5B	R	R	R	G	Y	R	R	R	R	R	R	R	Y
Ø3	3A, 3B	-	-	-	-	-	-	G	Y	-	-	-	-	-
Ø4	4A, 4B, 7A, 7B	R	R	R	R	R	R	R	R	R	G	Y	R	R
Ø5	5A, 5B	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø6	6A, 6B, 1A, 1B	R	R	R	R	R	R	R	R	R	R	R	R	Y
Ø7	7A, 7B	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø8	8A, 8B, 3A, 3B	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø2P	PH2-1, PH2-2	DW	DW	DW	*	DW	DW	DW	DW	DW	DW	DW	DW	-
Ø4P	PH4-1, PH4-2	DW	DW	DW	DW	DW	DW	DW	DW	DW	*	DW	DW	-
Ø6P	PH6-1, PH6-2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	-
Ø8P	PH8-1, PH8-2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	-

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **		Ø6 R/W	Ø6 CLEAR TO **		Ø7 R/W	Ø7 CLEAR TO **		Ø8 R/W	Ø8 CLEAR TO **	
Ø1	1A, 1B	-	-	-	-	-	-	-	-	-	-	-	-
Ø2	2A, 2B, 5A, 5B	R	R	R	R	R	R	R	R	R	R	R	R
Ø3	3A, 3B	-	-	-	-	-	-	-	-	-	-	-	-
Ø4	4A, 4B, 7A, 7B	R	R	R	R	R	R	R	R	R	R	R	R
Ø5	5A, 5B	G	Y	-	-	-	-	-	-	-	-	-	-
Ø6	6A, 6B, 1A, 1B	R	R	R	G	Y	R	R	R	R	R	R	R
Ø7	7A, 7B	-	-	-	-	-	-	G	Y	-	-	-	-
Ø8	8A, 8B, 3A, 3B	R	R	R	R	R	R	R	R	R	G	Y	R
Ø2P	PH2-1, PH2-2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Ø4P	PH4-1, PH4-2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Ø6P	PH6-1, PH6-2	DW	DW	DW	*	DW	DW	DW	DW	DW	DW	DW	DW
Ø8P	PH8-1, PH8-2	DW	DW	DW	DW	DW	DW	DW	DW	DW	*	DW	DW

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	6, 5	2, 3, 4, 7, 8
Ø2	6, 5	1, 3, 4, 7, 8
Ø3	7, 8	1, 2, 4, 5, 6
Ø4	7, 8	1, 2, 3, 5, 6
Ø5	1, 2	3, 4, 6, 7, 8
Ø6	1, 2	3, 4, 5, 7, 8
Ø7	3, 4	1, 2, 5, 6, 8
Ø8	3, 4	1, 2, 5, 6, 7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	2	X			1	1				6X20	3
21	3			X		2				6X20	4
22*	4	X			2	2				6X20	3
23*	4	X			2	2				6X20	3
24*	5	X			2	2				6X20	3
31	6	X			3	3				6X20	3
32	7	X			3	3				6X20	3
41	8			X		4				6X20	4
42	9	X			4	4				6X20	4
43	9	X			4	4				6X20	4
44	10	X			4	4				6X20	4
51	11	X			5	5				6X20	3
52	12	X			5	5				6X20	3
61	13			X		6				6X20	4
62*	14	X			6	6				6X20	3
63*	14	X			6	6				6X20	3
64*	15	X			6	6				6X20	3
71	16	X			7	7				6X20	3
72	17	X			7	7				6X20	3
81	18			X		8				6X20	3
82	19	X			8	8				6X20	3
83	19	X			8	8				6X20	3

* LOOP TO BE CONNECTED TO CONTROLLER FOR FUTURE USE.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL
1			
2	X	6	MIN
3			
4			
5			
6	X	2	MIN
7			
8			

OVERLAPS

O.L. "A" = -
O.L. "B" = -
O.L. "C" = -
O.L. "D" = -

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

FUTURE PLANS FOR CLOSED LOOP SYSTEM

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

STEWART AVENUE / 28TH AVENUE

CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL

DATE

SHEET NO. 2 OF 3

2

2

CABLE TRAFFIC SIGNAL - 14 AWG

PROJECT ID:	6999-09-73
INTERSECTION:	STEWART AVE. / 28TH AVE.

SIGNAL WIRE COLOR CODING			
	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB-2 TO:	JUMPER	AWG 14 # OF CONDUCTORS	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR							PED BUTTON
					RED	YELLOW	GREEN	<YELLOW>	<GREEN>	D/WALK	WALK	
SB-22		12	6B	6	RED/BLK	ORG/BLK	GRN/BLK					
			PH8-2	8P						BLK/WHT	BLU/BLK	
			PEDB8-2	8P								BLU
SB-23		12	8A	8	RED	ORG	GRN					
			PH6-1	6P						BLK/WHT	BLU/BLK	
			PEDB6-1	6P								BLU
SB-24		12	5A	8	RED	ORG	GRN					
				3				ORG/BLK	GRN/BLK			
			7B	4	RED/BLK	BLU	WHT/BLK					
				7				BLU/BLK	BLK/WHT			
SB-25		15	4B	4	RED	ORG	GRN					
			PH6-2	6P						BLK/WHT	BLU/BLK	
			PEDB6-2	6P								BLU
	SB-26	12	6A	6	RED/BLK	ORG/BLK	GRN/BLK					
			PH4-2	4P						RED/WHT	GRN/WHT	
			PEDB4-2	4P								BLU/WHT
SB-27		12	1A	6	RED	ORG	GRN					
				1				ORG/BLK	GRN/BLK			
			5B	2	RED/BLK	BLU	WHT/BLK					
				5				BLU/BLK	BLK/WHT			
SB-28		15	2B	2	RED/BLK	BLU	WHT/BLK					
			PH4-1	4P						BLK/WHT	BLU/BLK	
			PEDB4-1	4P								BLU
	SB-17	12	4A	4	RED	ORG	GRN					
			PH2-2	2P						RED/WHT	GRN/WHT	
			PEDB2-2	2P								BLU/WHT
SB-18		12	3B	8	RED	ORG	GRN					
				3				ORG/BLK	GRN/BLK			
			7A	4	RED/BLK	BLU	WHT/BLK					
				7				BLU/BLK	BLK/WHT			
SB-20		15	2A	2	RED/BLK	ORG/BLK	GRN/BLK					
			PH8-1	8P						RED/WHT	GRN/WHT	
			PEDB8-1	8P								BLU
	SB-19	12	8B	8	RED	ORG	GRN					
			PH2-1	2P						BLU/BLK	BLK/WHT	
			PEDB2-1	2P								BLU
SB-21		12	1B	6	RED	ORG	GRN					
				1				ORG/BLK	GRN/BLK			
			5A	2	RED/BLK	BLU	WHT/BLK					

*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

SIGNAL LOCAL
STEWART AVE. / 28TH AVE

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB-2	SB-23
SB-23	SB-24
SB-24	SB-25
SB-25	SB-26
SB-26	SB-27
SB-27	SB-28
SB-28	SB-17
SB-17	SB-18
SB-18	SB-19
SB-19	SB-20
SB-20	SB-21
SB-21	LP-22
LP-22	SB-22
SB-22	CB-2

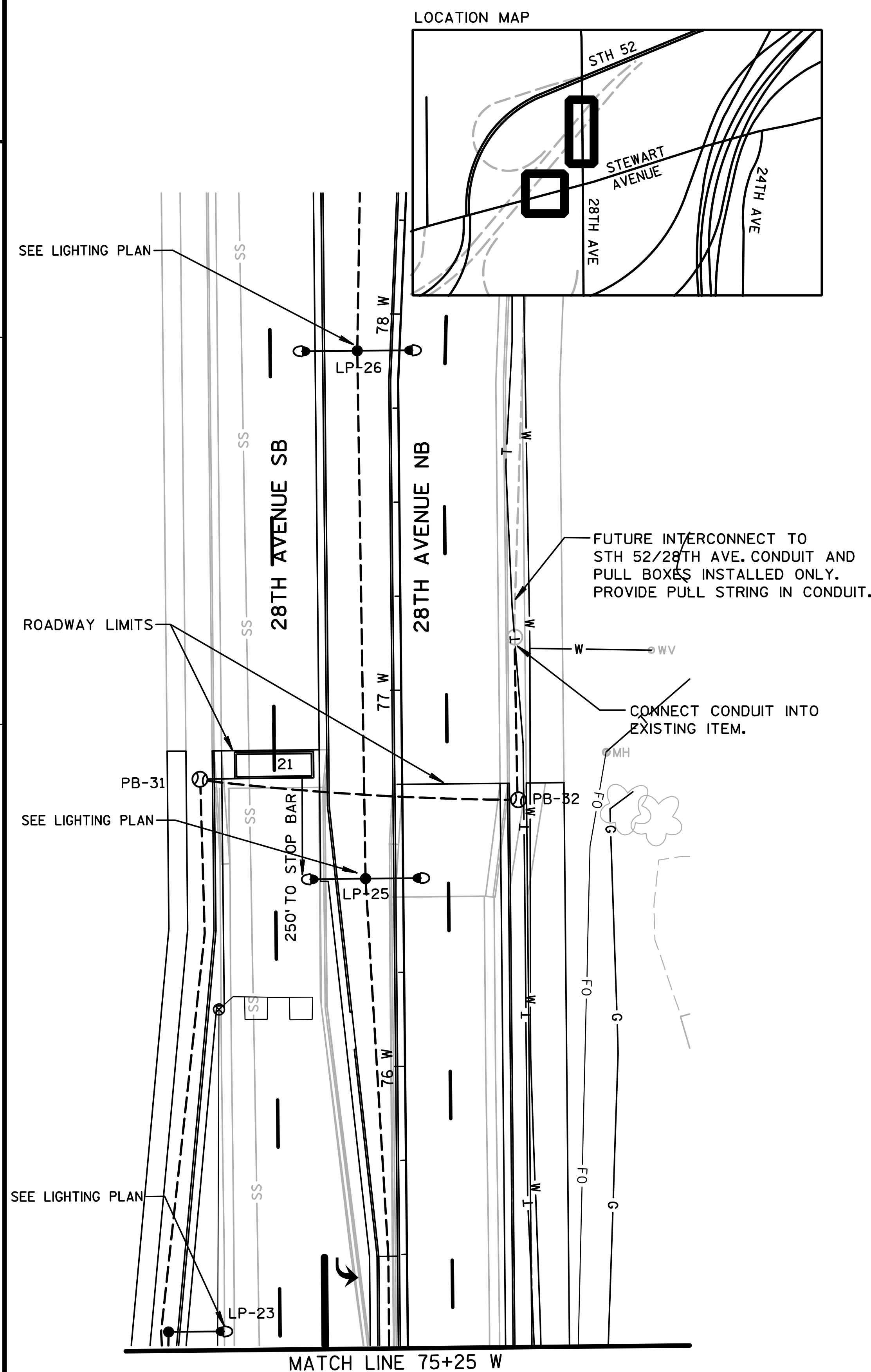
SIGNAL LOCAL
STEWART AVE. / 28TH AVE

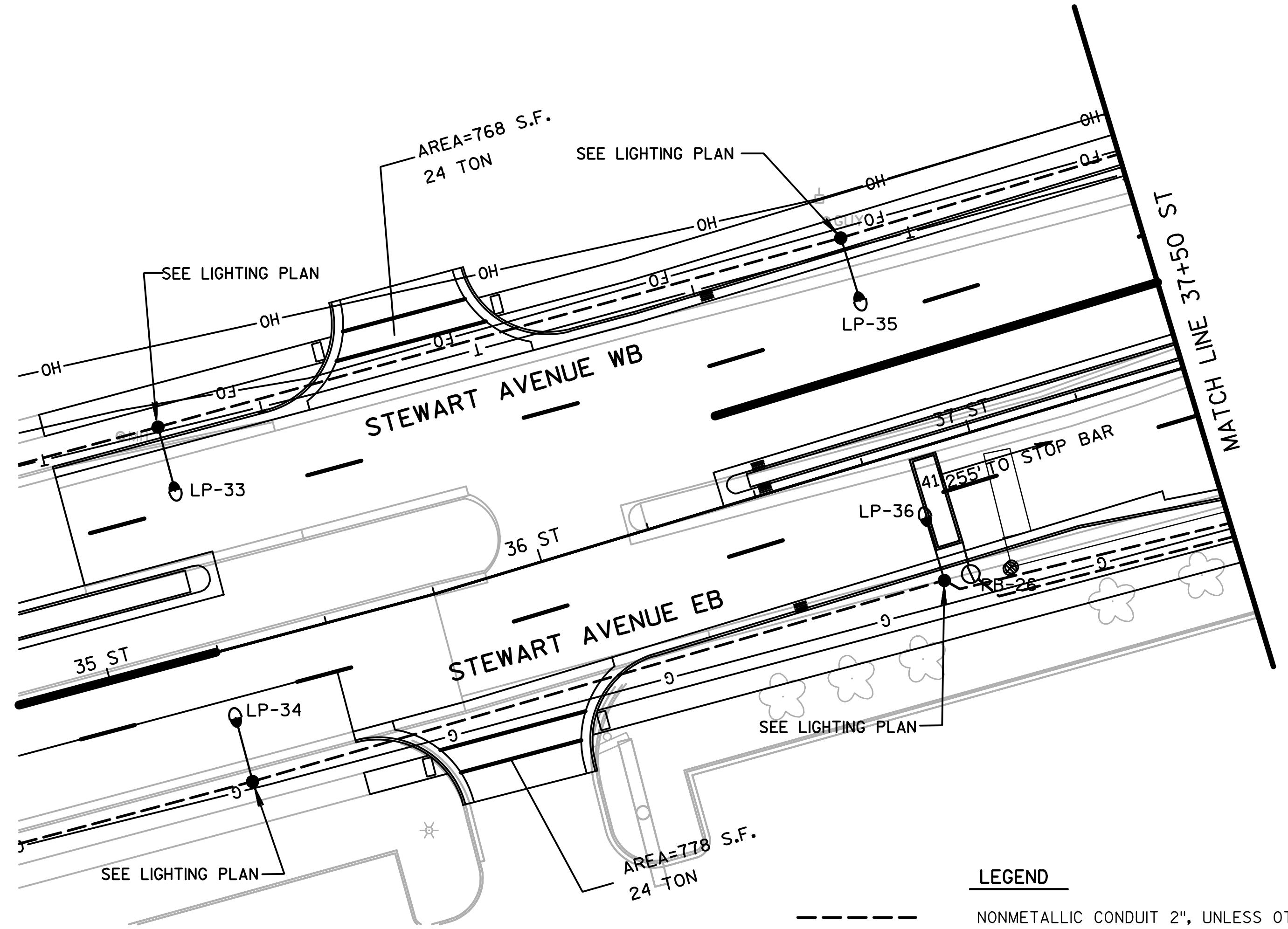
PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
SB-23	PB-36
SB-24	PB-38
SB-25	PB-39
SB-26	PB-40
SB-27	PB-42
SB-28	PB-43
SB-17	PB-27
SB-18	PB-28
SB-19	PB-29
SB-20	PB-30
SB-21	PB-33
SB-22	PB-34
CB-2	PB-35

SIGNAL LOCAL
STEWART AVE. / 28TH AVE

UF 12-2 W/GROUND	
FROM	TO
CB-2	LP-22
CB-2	SB-19
CB-2	SB-28
CB-2	SB-25

2





LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
- PULL BOXES STEEL 18X24-INCH
- PULL BOXES STEEL 24X42-INCH
- LANE DESIGNATION, FOR REFERENCE ONLY

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
5. POSTED SPEED ON STEWART = 25 MPH
6. ALL SIGNAL EQUIPMENT SHALL HAVE A MINIMUM OF 2' CLEARANCE TO FACE OF CURB.
7. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
8. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
9. LOOP DETECTOR LOCATION IS TO FRONT CENTER OF LOOP. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED. DISTANCE BETWEEN MULTIPLE STOP BAR LOOPS SHALL BE 8 FEET.
10. ALL LUMINARES POWERED FROM THE TRAFFIC SIGNAL CABINET ARE 120 VOLT, 250 WATT HIGH PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUT OFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON A 30-FOOT POLE WITH 10-FOOT MAST ARMS UNLESS OTHERWISE NOTED.

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TRAFFIC CONTROL SIGNAL
STEWART AVENUE & 28TH AVENUE

CITY OF WAUSAU, MARATHON COUNTY
SIGNAL NO. LOCAL
SCALE 0 20

PROJECT NO: 6999-09-73	HWY: STEWART AVENUE	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET 78	E

2

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. ALL SIGNAL EQUIPMENT SHALL HAVE A MINIMUM OF 2' CLEARANCE TO FACE OF CURB.
5. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
6. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

PROJECT I.D. 1166-09-79 | PROJECT I.D. 6999-09-73

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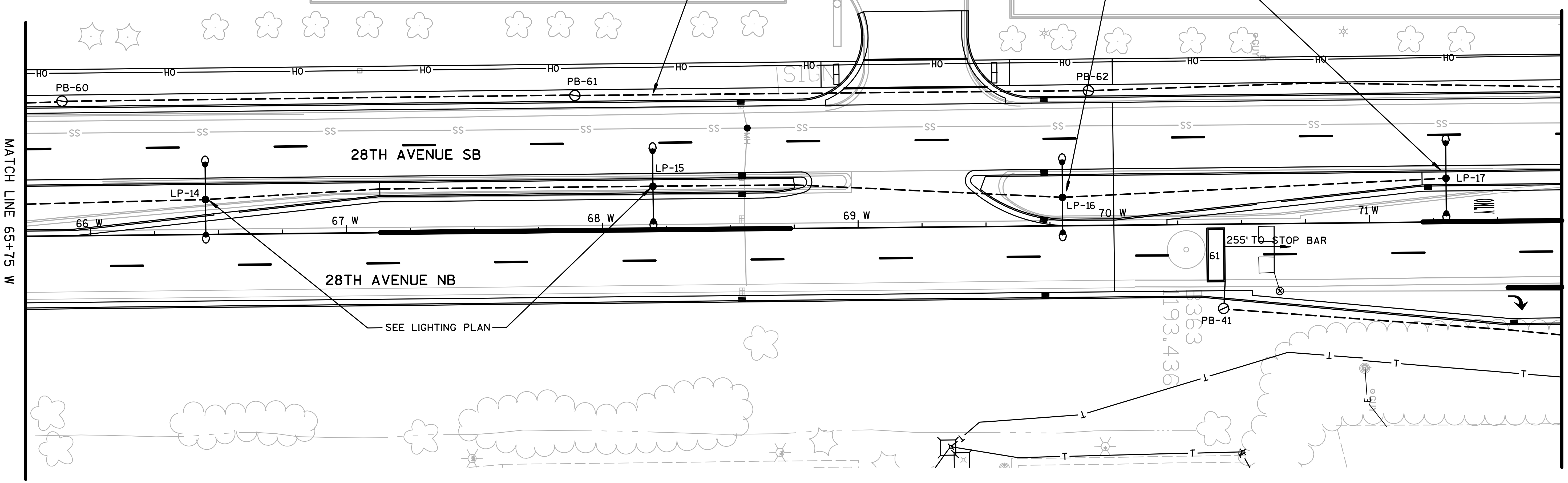
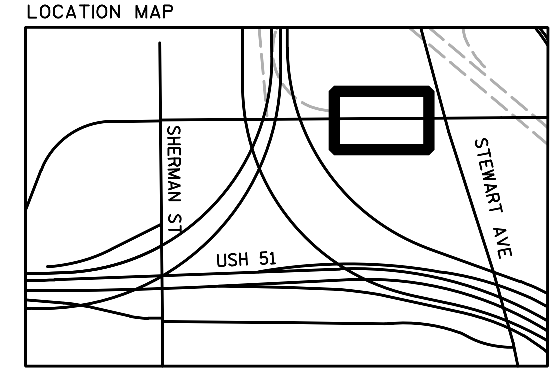


LOCATION MAP



LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
- PULL BOXES STEEL 18X24-INCH
- PULL BOXES STEEL 24X42-INCH
- LUMINAIRE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)

TRAFFIC CONTROL SIGNAL
STEWART AVENUE & 28TH AVENUE

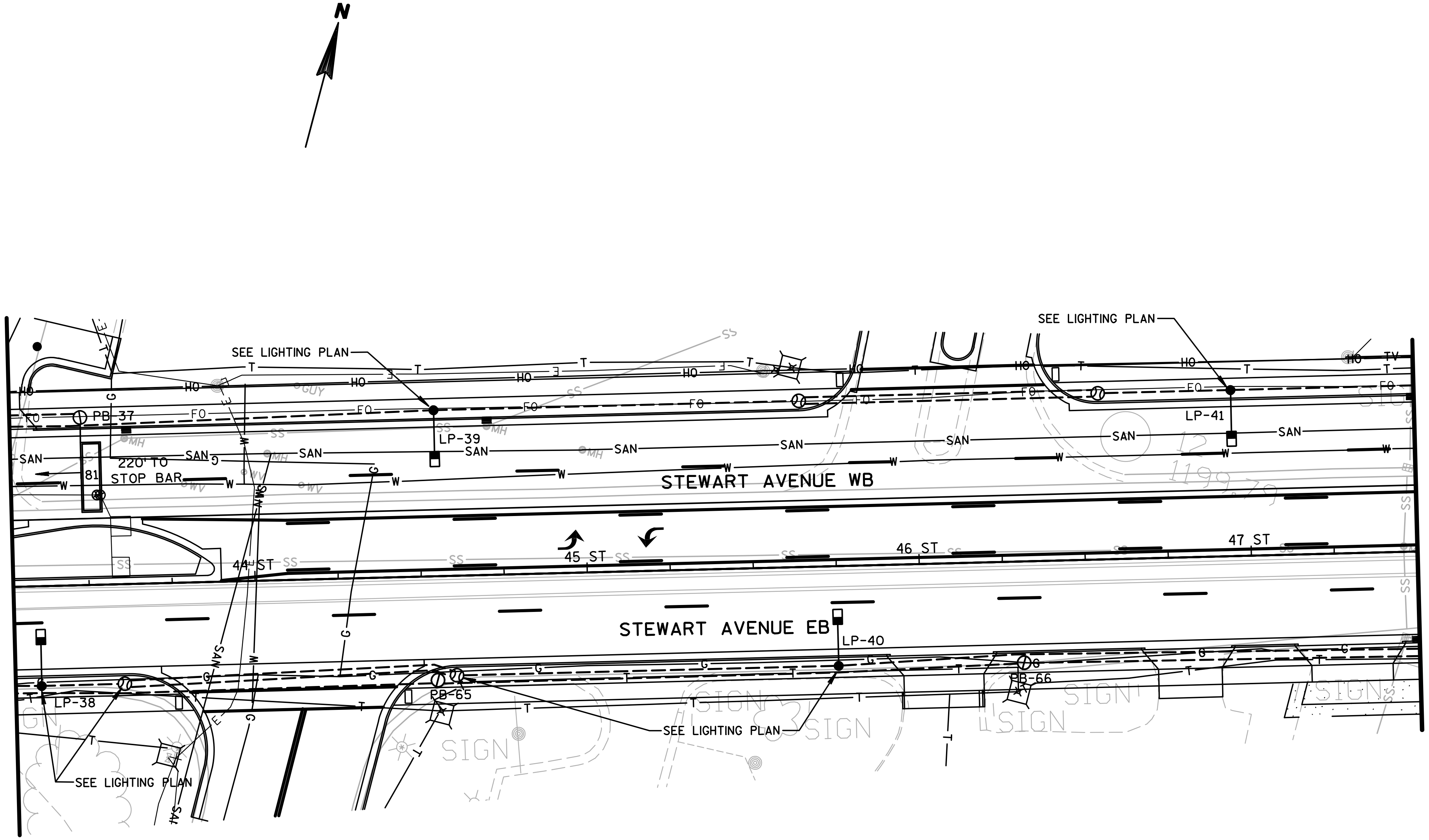
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL

SCALE 0 20

PROJECT NO:1166-09-79/6999-09-73	HWY: USH 51 / STH 29	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET 79	E

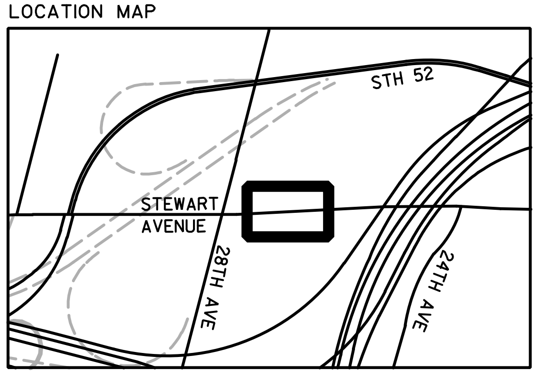
2



CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED BEFORE PLACING SIGNAL CABLE INTO SYSTEM.
2. ALL METAL PULL BOXES THAT CARRY 50 VOLTS OR MORE TO BE BONDED.
3. TERMINATION OF BONDING JUMPERS IN PULL BOXES TO BE LUG AND BOLT CONNECTION AND CAULKED (SILICONE) AFTER INSTALLATION.
4. EACH LOOP DETECTOR SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROL CABINET.
5. POSTED SPEED ON STEWART = 25 MPH
6. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AND STRUCTURES AS SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS OR STRUCTURES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
7. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
8. LOOP DETECTOR LOCATION IS TO FRONT CENTER OF LOOP. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED. DISTANCE BETWEEN MULTIPLE STOP BAR LOOPS SHALL BE 8 FEET.
9. ALL POLE MOUNTED LUMINARES ARE 120 VOLT, 250 WATT HIGH PRESSURE SODIUM, COBRA HEAD STYLE, WITH FLAT GLASS CUT OFF OPTICS, TYPE III DISTRIBUTION, MOUNTED ON A 30-FOOT POLE WITH 15-FOOT MAST ARMS UNLESS OTHERWISE NOTED. UNDERDECK LUMINARES ARE 150 WATT HPS.

LOCATION MAP



LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE DECORATIVE (250 WATT HPS -- FLAT GLASS CUT OFF) (LOCAL MAINTAINED)
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT SIDE PULL (SDD OPTION 2)
- PULL BOXES STEEL 18X24-INCH
- PULL BOXES STEEL 24X42-INCH
- LANE DESIGNATION, FOR REFERENCE ONLY

TRAFFIC CONTROL SIGNAL
STEWART AVENUE & 28TH AVENUE

CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL

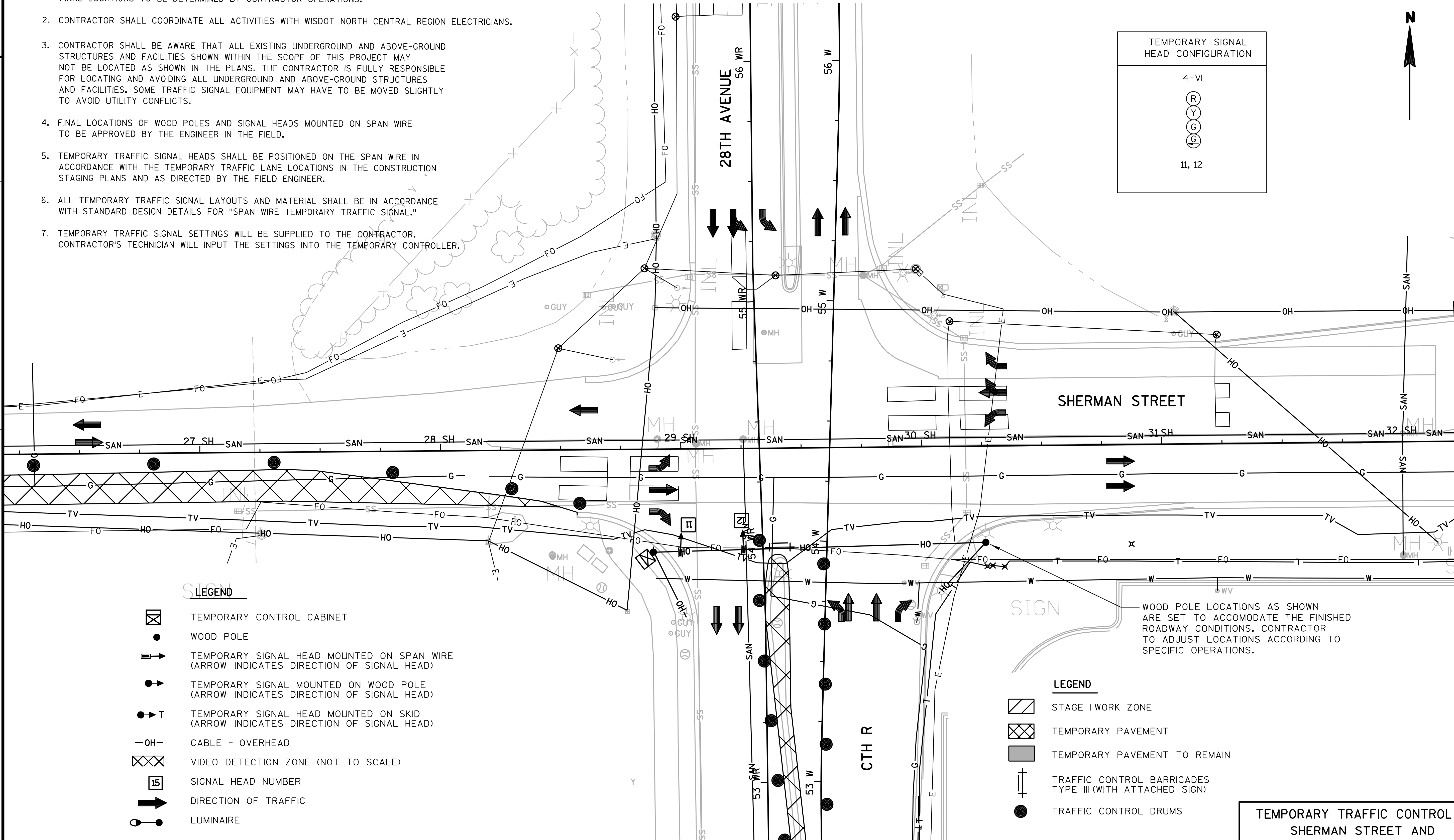
SCALE 0 20

PROJECT NO: 6999-09-73	HWY: STEWART AVENUE	COUNTY: MARATHON	TRAFFIC SIGNAL PLAN	SHEET 80	E

2

CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS.
2. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH WISDOT NORTH CENTRAL REGION ELECTRICIANS.
3. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.
4. FINAL LOCATIONS OF WOOD POLES AND SIGNAL HEADS MOUNTED ON SPAN WIRE TO BE APPROVED BY THE ENGINEER IN THE FIELD.
5. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE POSITIONED ON THE SPAN WIRE IN ACCORDANCE WITH THE TEMPORARY TRAFFIC LANE LOCATIONS IN THE CONSTRUCTION STAGING PLANS AND AS DIRECTED BY THE FIELD ENGINEER.
6. ALL TEMPORARY TRAFFIC SIGNAL LAYOUTS AND MATERIAL SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL."
7. TEMPORARY TRAFFIC SIGNAL SETTINGS WILL BE SUPPLIED TO THE CONTRACTOR. CONTRACTOR'S TECHNICIAN WILL INPUT THE SETTINGS INTO THE TEMPORARY CONTROLLER.



TEMPORARY SIGNAL HEAD CONFIGURATION
4-VL
R Y G G
11, 12

LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE

LEGEND

- STAGE I WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS

TEMPORARY TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND
28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL   SCALE 0 20

PROJECT NO: 1166-09-79	HWY: USH 51 / STH 29	COUNTY: MARATHON	TEMPORARY TRAFFIC SIGNAL - STAGE 1	SHEET 85	E

2

CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS.

2. CONTRACTOR TO PROVIDE TEMPORARY VIDEO VEHICLE DETECTION SYSTEM WHICH SHALL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS DURING ALL STAGES OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES IF NEEDED TO ENSURE PROPER LOCATION OF VIDEO DETECTION.

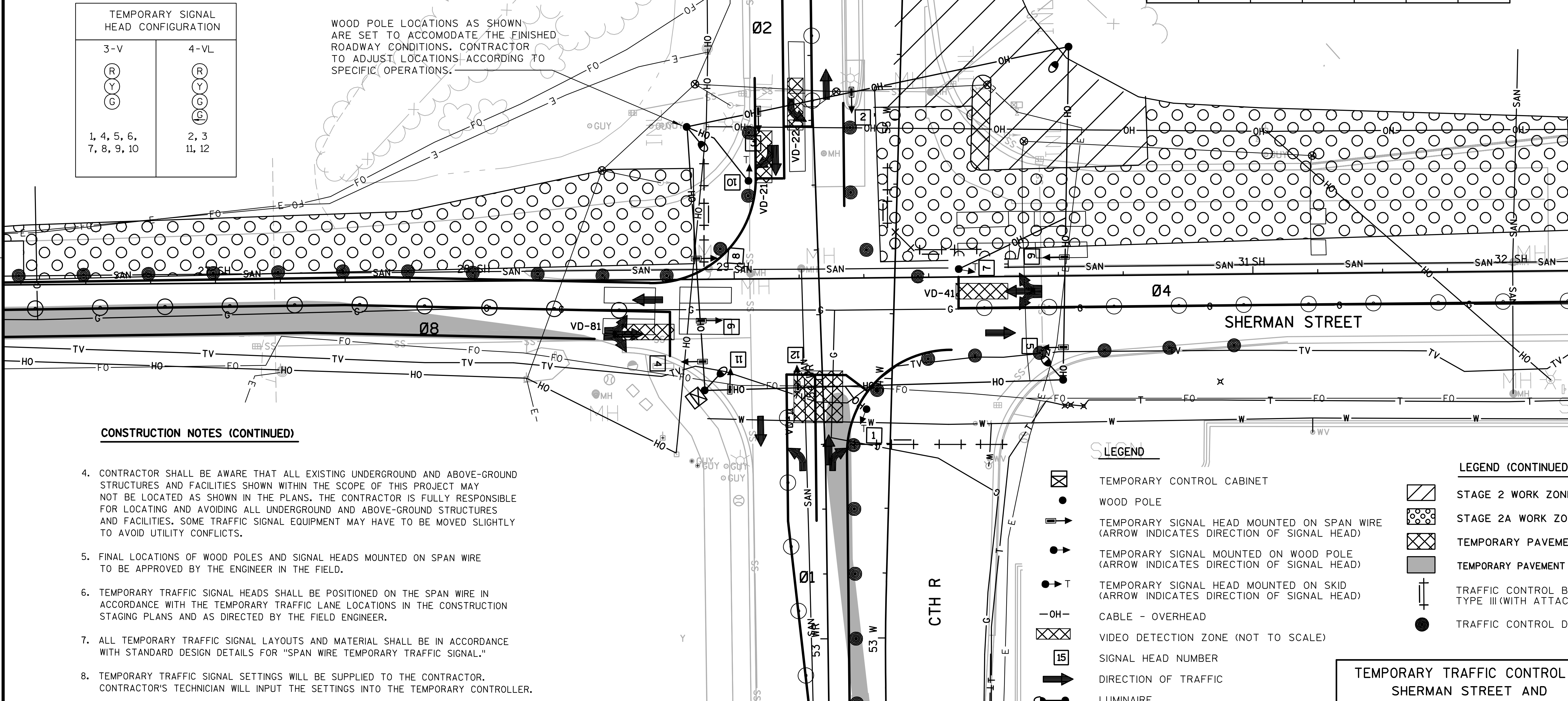
3. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH WISDOT NORTH CENTRAL REGION ELECTRICIANS.

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-11	X			1	1	18'X20'
VD-21	X			2	2	6'X20'
VD-22	X			2	2	6'X20'
VD-41	X			4	4	6'X20'
VD-81	X			8	8	6'X20'

TEMPORARY SIGNAL HEAD CONFIGURATION

3-V	4-VL
R Y G	R Y G G
1, 4, 5, 6, 7, 8, 9, 10	2, 3 11, 12



CONSTRUCTION NOTES (CONTINUED)

4. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.

5. FINAL LOCATIONS OF WOOD POLES AND SIGNAL HEADS MOUNTED ON SPAN WIRE TO BE APPROVED BY THE ENGINEER IN THE FIELD.

6. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE POSITIONED ON THE SPAN WIRE IN ACCORDANCE WITH THE TEMPORARY TRAFFIC LANE LOCATIONS IN THE CONSTRUCTION STAGING PLANS AND AS DIRECTED BY THE FIELD ENGINEER.

7. ALL TEMPORARY TRAFFIC SIGNAL LAYOUTS AND MATERIAL SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL."

8. TEMPORARY TRAFFIC SIGNAL SETTINGS WILL BE SUPPLIED TO THE CONTRACTOR. CONTRACTOR'S TECHNICIAN WILL INPUT THE SETTINGS INTO THE TEMPORARY CONTROLLER.

LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE
- FLEXIBLE TUBULAR MARKERS

LEGEND (CONTINUED)

- STAGE 2 WORK ZONE
- STAGE 2A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS

TEMPORARY TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND
28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

2

CONSTRUCTION NOTES

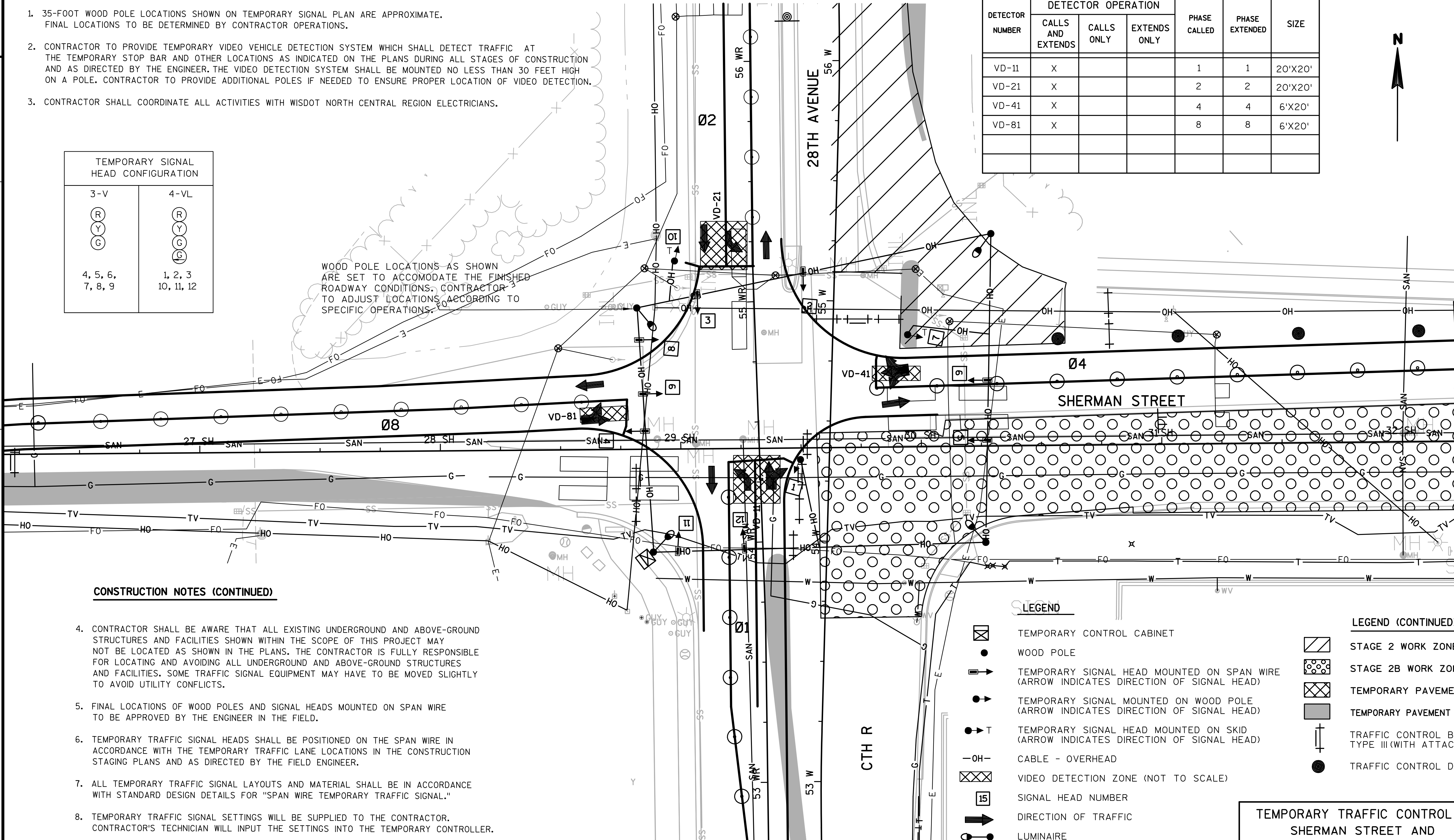
1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS.
2. CONTRACTOR TO PROVIDE TEMPORARY VIDEO VEHICLE DETECTION SYSTEM WHICH SHALL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS DURING ALL STAGES OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES IF NEEDED TO ENSURE PROPER LOCATION OF VIDEO DETECTION.
3. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH WISDOT NORTH CENTRAL REGION ELECTRICIANS.

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-11	X			1	1	20'X20'
VD-21	X			2	2	20'X20'
VD-41	X			4	4	6'X20'
VD-81	X			8	8	6'X20'

TEMPORARY SIGNAL HEAD CONFIGURATION

3-V	4-VL
R Y G	R Y G G
4, 5, 6, 7, 8, 9	1, 2, 3 10, 11, 12



CONSTRUCTION NOTES (CONTINUED)

4. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.
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LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE
- FLEXIBLE TUBULAR MARKERS

LEGEND (CONTINUED)

- STAGE 2 WORK ZONE
- STAGE 2B WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS

TEMPORARY TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND
28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS.
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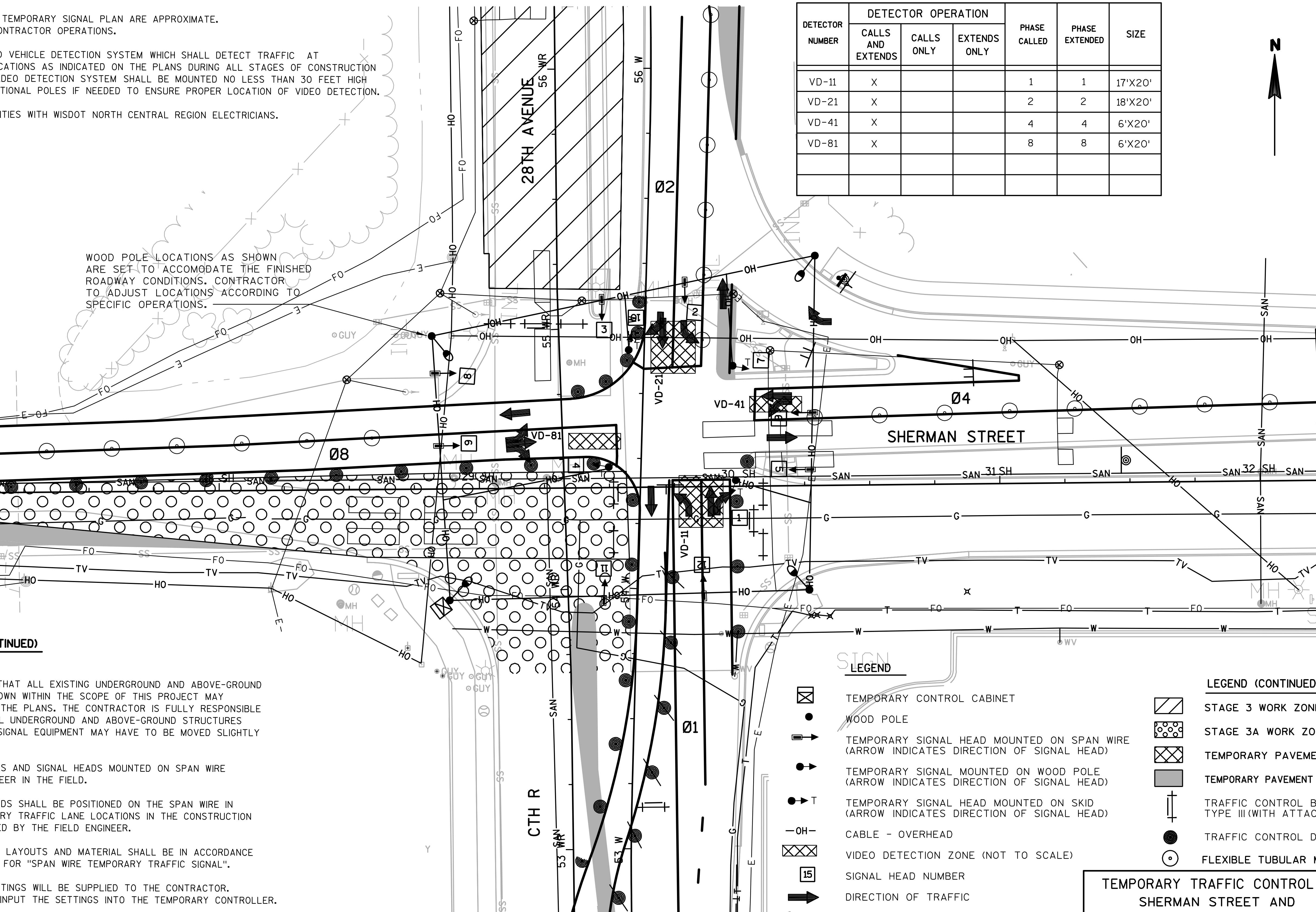
VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-11	X			1	1	17'X20'
VD-21	X			2	2	18'X20'
VD-41	X			4	4	6'X20'
VD-81	X			8	8	6'X20'

TEMPORARY SIGNAL HEAD CONFIGURATION

3-V	4-VL
R, Y, G	R, Y, G, G
1, 4, 5, 6, 7, 8, 9, 10	2, 3, 11, 12



CONSTRUCTION NOTES (CONTINUED)

4. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.
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LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T: TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH—: CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15: SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE
- YIELD SIGN

LEGEND (CONTINUED)

- STAGE 3 WORK ZONE
- STAGE 3A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- FLEXIBLE TUBULAR MARKER

TEMPORARY TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND 28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL — SCALE 0 20

PROJECT NO: 1166-09-79	HWY: USH 51/ STH 29	COUNTY: MARATHON	TEMPORARY TRAFFIC SIGNAL - STAGE 3A	SHEET 88	E

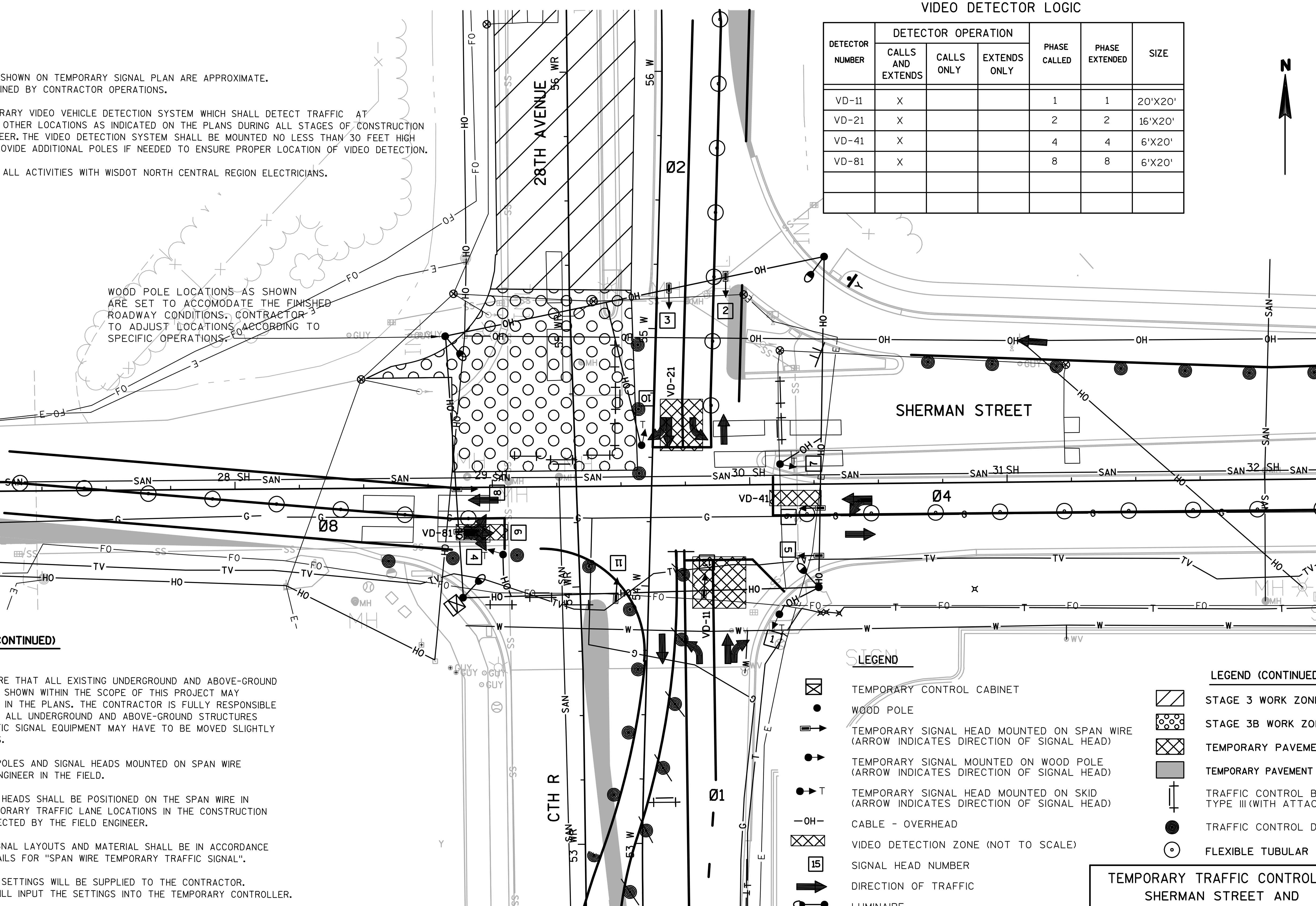
CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS.
2. CONTRACTOR TO PROVIDE TEMPORARY VIDEO VEHICLE DETECTION SYSTEM WHICH SHALL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS DURING ALL STAGES OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES IF NEEDED TO ENSURE PROPER LOCATION OF VIDEO DETECTION.
3. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH WISDOT NORTH CENTRAL REGION ELECTRICIANS.

TEMPORARY SIGNAL HEAD CONFIGURATION	
3-V	4-VL
R Y G	R Y G G←
1, 4, 5, 6, 7, 8, 9, 10	2, 3 11, 12

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	SIZE
	CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY			
VD-11	X			1	1	20'X20'
VD-21	X			2	2	16'X20'
VD-41	X			4	4	6'X20'
VD-81	X			8	8	6'X20'



CONSTRUCTION NOTES (CONTINUED)

4. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.
5. FINAL LOCATIONS OF WOOD POLES AND SIGNAL HEADS MOUNTED ON SPAN WIRE TO BE APPROVED BY THE ENGINEER IN THE FIELD.
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LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE
- Y YIELD SIGN

LEGEND (CONTINUED)

- STAGE 3 WORK ZONE
- STAGE 3B WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- FLEXIBLE TUBULAR MARKERS

TEMPORARY TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND
28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS.

2. CONTRACTOR TO PROVIDE TEMPORARY VIDEO VEHICLE DETECTION SYSTEM WHICH SHALL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS DURING ALL STAGES OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES IF NEEDED TO ENSURE PROPER LOCATION OF VIDEO DETECTION.

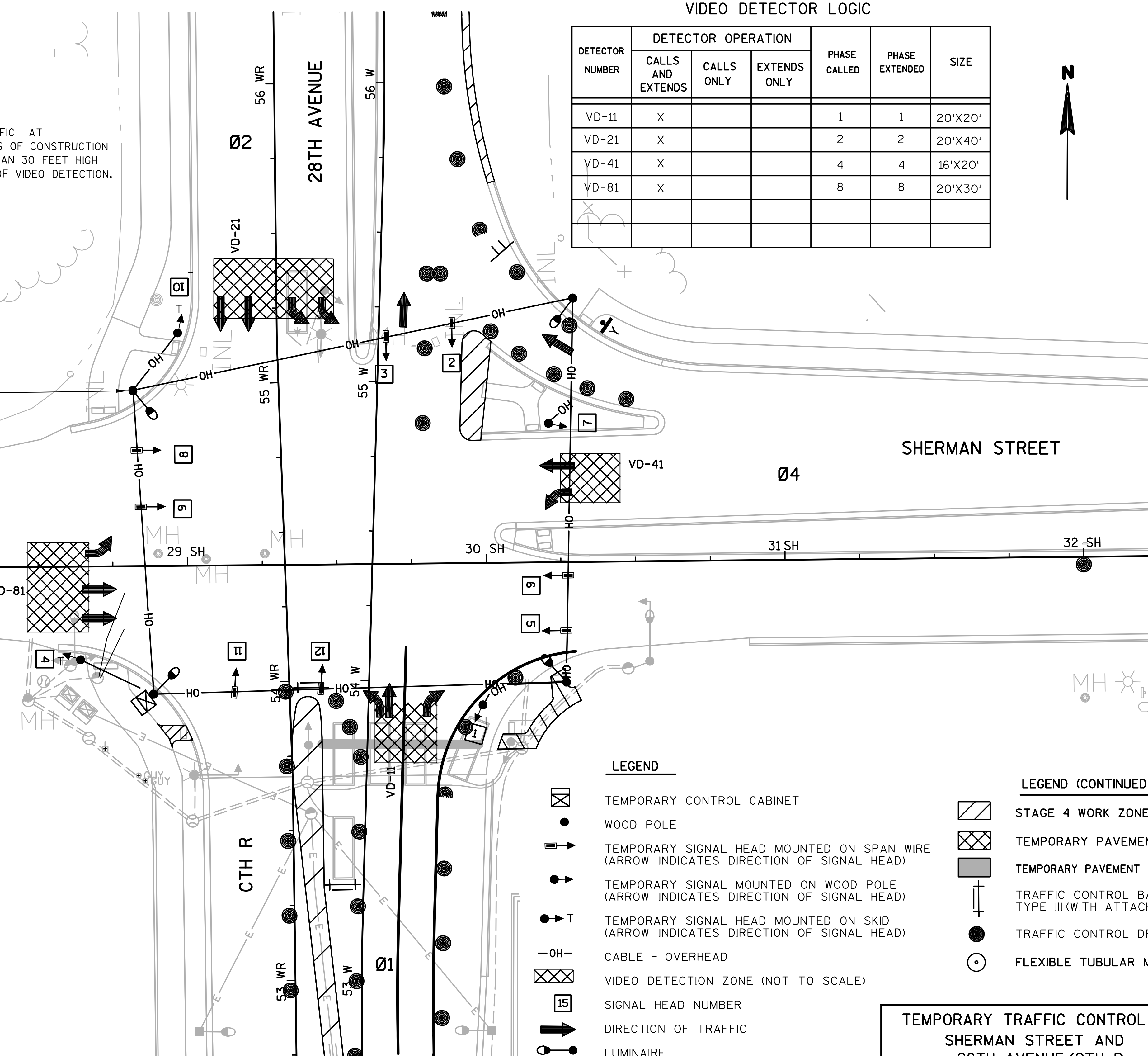
3. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH WISDOT NORTH CENTRAL REGION ELECTRICIANS.

TEMPORARY SIGNAL HEAD CONFIGURATION	
3-V	4-VL
R, Y, G	R, Y, G, G (arrow)
1, 4, 5, 6, 7, 8, 9, 10	2, 3, 11, 12

WOOD POLE LOCATIONS AS SHOWN ARE SET TO ACCOMODATE THE FINISHED ROADWAY CONDITIONS. CONTRACTOR TO ADJUST LOCATIONS ACCORDING TO SPECIFIC OPERATIONS.

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-11	X			1	1	20'X20'
VD-21	X			2	2	20'X40'
VD-41	X			4	4	16'X20'
VD-81	X			8	8	20'X30'



CONSTRUCTION NOTES (CONTINUED)

4. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.

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6. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE POSITIONED ON THE SPAN WIRE IN ACCORDANCE WITH THE TEMPORARY TRAFFIC LANE LOCATIONS IN THE CONSTRUCTION STAGING PLANS AND AS DIRECTED BY THE FIELD ENGINEER.

7. ALL TEMPORARY TRAFFIC SIGNAL LAYOUTS AND MATERIAL SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".

8. TEMPORARY TRAFFIC SIGNAL SETTINGS WILL BE SUPPLIED TO THE CONTRACTOR. CONTRACTOR'S TECHNICIAN WILL INPUT THE SETTINGS INTO THE TEMPORARY CONTROLLER.

LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T — TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE
- Y YIELD SIGN

LEGEND (CONTINUED)

- STAGE 4 WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- FLEXIBLE TUBULAR MARKERS

TEMPORARY TRAFFIC CONTROL SIGNAL
SHERMAN STREET AND
28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL   SCALE 0 — 20

PROJECT NO: 1166-09-79	HWY: USH 51 / STH 29	COUNTY: MARATHON	TEMPORARY TRAFFIC SIGNAL - STAGE 4	SHEET 90	E

TEMPORARY TRAFFIC SIGNAL SEQUENCE OF OPERATION

		Ø1							Ø2						
			CLEAR TO							CLEAR TO					
	HEAD NUMBERS	R/W	**						R/W	**					
Ø1	1, 2, 3	G, G	Y	R					R	R	R				
Ø2	10, 11, 12	R	R	R					G, G	Y	R				
Ø3															
Ø4	7, 8, 9	R	R	R					R	R	R				
Ø5															
Ø6															
Ø7															
Ø8	4, 5, 6	R	R	R					R	R	R				
Ø2P															
Ø4P															
Ø6P															
Ø8P															

RING 1

	Ø3 (NOT USED)							Ø4							FLASH
		CLEAR TO							CLEAR TO						
	R/W	**						R/W	**						
Ø1								R	R	R					R
Ø2								R	R	R					R
Ø3															
Ø4								G	Y	R					R
Ø5															
Ø6															
Ø7															
Ø8								R	R	R					R
Ø2P															
Ø4P															
Ø6P															
Ø8P															

NOT USED | NOT USED | NOT USED

		Ø5							Ø6						
			CLEAR TO							CLEAR TO					
	HEAD NUMBERS	R/W	**						R/W	**					
Ø1	1, 2, 3														
Ø2	10, 11, 12														
Ø3															
Ø4	7, 8, 9														
Ø5															
Ø6															
Ø7															
Ø8	4, 5, 6														
Ø2P															
Ø4P															
Ø6P															
Ø8P															

RING 2

	Ø7							Ø8						
		CLEAR TO							CLEAR TO					
	R/W	**						R/W	**					
Ø1								R	R	R				
Ø2								R	R	R				
Ø3														
Ø4								R	R	R				
Ø5														
Ø6														
Ø7														
Ø8								G	Y	R				
Ø2P														
Ø4P														
Ø6P														
Ø8P														

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	NONE	2, 4, 8
Ø2	NONE	1, 4, 8
Ø3		
Ø4	8	1, 2
Ø5		
Ø6		
Ø7		
Ø8	4	1, 2

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
VD-11	1	X			1	1				VARIES	
VD-21	2	X			2	2				VARIES	
VD-22	3	X			2	2				VARIES	
VD-41	4	X			4	4				VARIES	
VD-81	5	X			8	8				VARIES	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL
1	X		MIN
2	X		MIN
3			
4	X	8	MIN
5			
6			
7			
8	X	4	MIN

OVERLAPS

O.L. "A" = NONE
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

TEMPORARY TRAFFIC SIGNAL
SHERMAN STREET AND
28TH AVENUE/CTH R
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL

DATE SHEET NO. OF

CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS
2. CONTRACTOR TO PROVIDE TEMPORARY VIDEO DETECTION SYSTEM WHICH SHALL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS DURING ALL STAGES OF CONTRUCTION AND AS DIRECTED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES IF NEEDED TO ENSURE PROPER LOCATION OF VIDEO DETECTION
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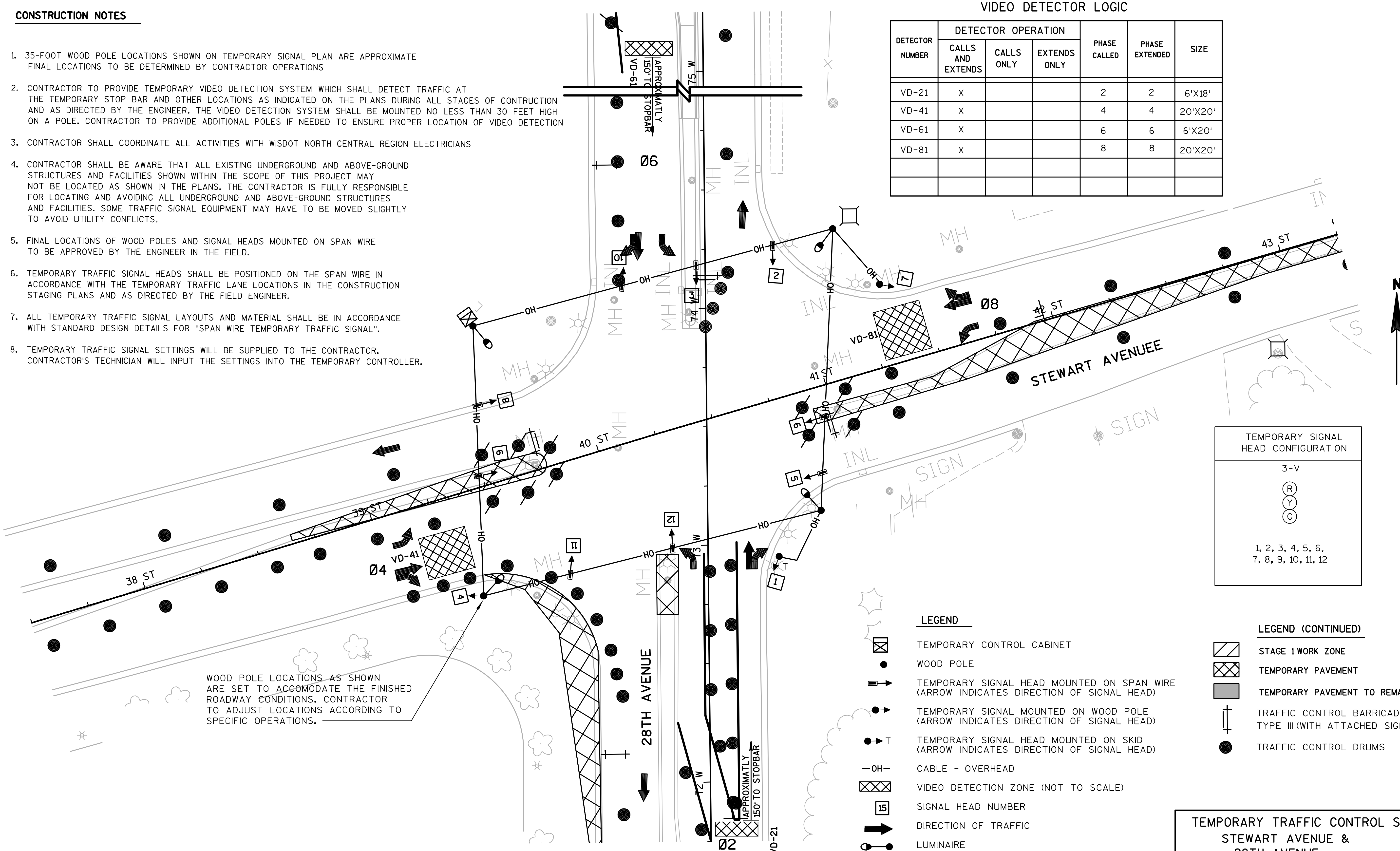
VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-21	X			2	2	6'X18'
VD-41	X			4	4	20'X20'
VD-61	X			6	6	6'X20'
VD-81	X			8	8	20'X20'



TEMPORARY SIGNAL HEAD CONFIGURATION

3-V

R
Y
G

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE

LEGEND (CONTINUED)

- STAGE 1 WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS

TEMPORARY TRAFFIC CONTROL SIGNAL
STEWART AVENUE &
28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

PROJECT NO: 6999-09-73	HWY: USH 51 / STH 29	COUNTY: MARATHON	TEMPORARY TRAFFIC SIGNAL - STAGE 1	SHEET 92	E

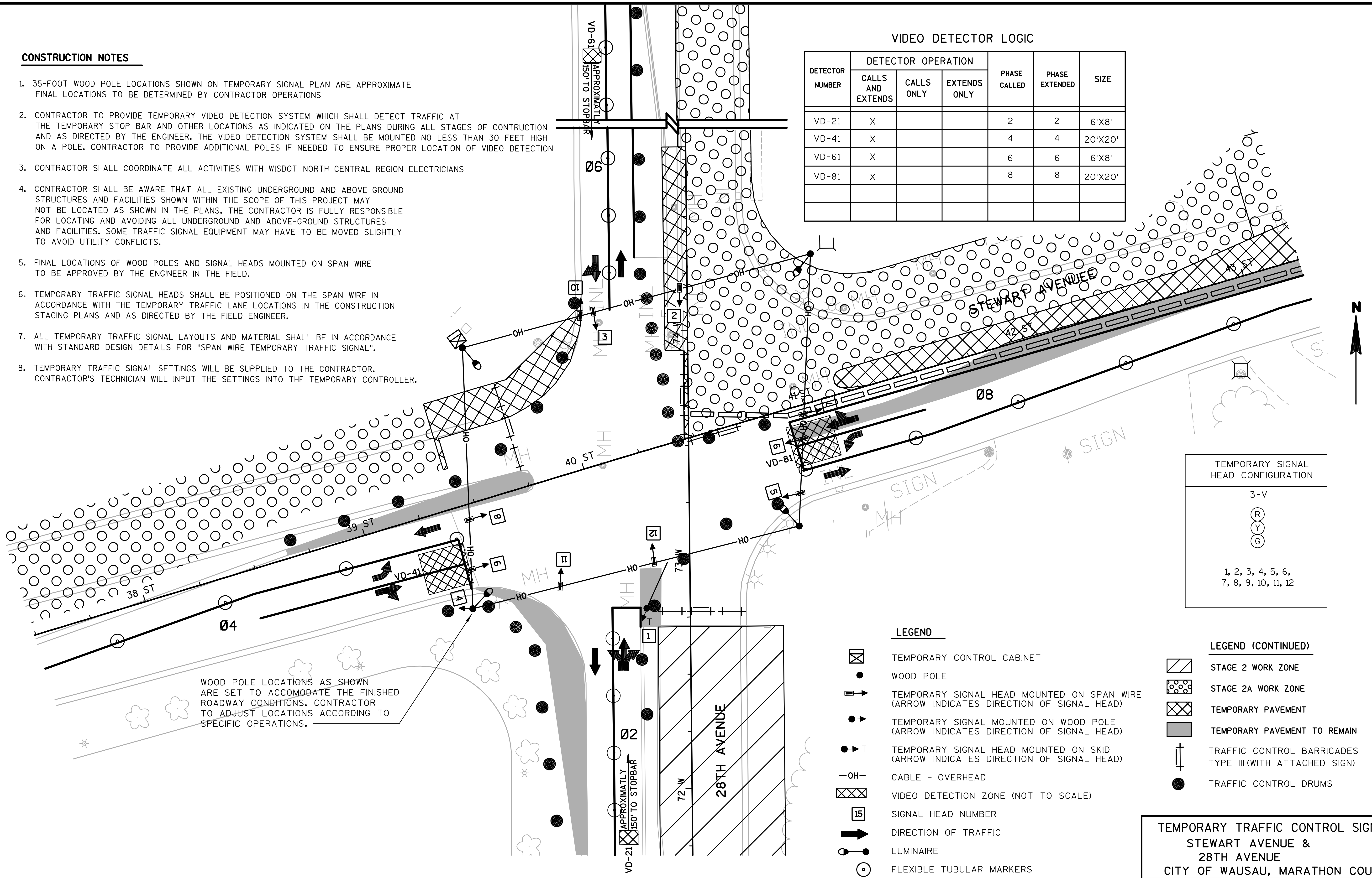
2

CONSTRUCTION NOTES

1. 35-FOOT WOOD POLE LOCATIONS SHOWN ON TEMPORARY SIGNAL PLAN ARE APPROXIMATE FINAL LOCATIONS TO BE DETERMINED BY CONTRACTOR OPERATIONS
2. CONTRACTOR TO PROVIDE TEMPORARY VIDEO DETECTION SYSTEM WHICH SHALL DETECT TRAFFIC AT THE TEMPORARY STOP BAR AND OTHER LOCATIONS AS INDICATED ON THE PLANS DURING ALL STAGES OF CONTRUCTION AND AS DIRECTED BY THE ENGINEER. THE VIDEO DETECTION SYSTEM SHALL BE MOUNTED NO LESS THAN 30 FEET HIGH ON A POLE. CONTRACTOR TO PROVIDE ADDITIONAL POLES IF NEEDED TO ENSURE PROPER LOCATION OF VIDEO DETECTION
3. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH WISDOT NORTH CENTRAL REGION ELECTRICIANS
4. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES SHOWN WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED AS SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE-GROUND STRUCTURES AND FACILITIES. SOME TRAFFIC SIGNAL EQUIPMENT MAY HAVE TO BE MOVED SLIGHTLY TO AVOID UTILITY CONFLICTS.
5. FINAL LOCATIONS OF WOOD POLES AND SIGNAL HEADS MOUNTED ON SPAN WIRE TO BE APPROVED BY THE ENGINEER IN THE FIELD.
6. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE POSITIONED ON THE SPAN WIRE IN ACCORDANCE WITH THE TEMPORARY TRAFFIC LANE LOCATIONS IN THE CONSTRUCTION STAGING PLANS AND AS DIRECTED BY THE FIELD ENGINEER.
7. ALL TEMPORARY TRAFFIC SIGNAL LAYOUTS AND MATERIAL SHALL BE IN ACCORDANCE WITH STANDARD DESIGN DETAILS FOR "SPAN WIRE TEMPORARY TRAFFIC SIGNAL".
8. TEMPORARY TRAFFIC SIGNAL SETTINGS WILL BE SUPPLIED TO THE CONTRACTOR. CONTRACTOR'S TECHNICIAN WILL INPUT THE SETTINGS INTO THE TEMPORARY CONTROLLER.

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	SIZE
	CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY			
VD-21	X			2	2	6'X8'
VD-41	X			4	4	20'X20'
VD-61	X			6	6	6'X8'
VD-81	X			8	8	20'X20'



TEMPORARY SIGNAL HEAD CONFIGURATION

3-V

R
Y
G

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

LEGEND

- TEMPORARY CONTROL CABINET
- WOOD POLE
- TEMPORARY SIGNAL HEAD MOUNTED ON SPAN WIRE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- TEMPORARY SIGNAL MOUNTED ON WOOD POLE (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- T TEMPORARY SIGNAL HEAD MOUNTED ON SKID (ARROW INDICATES DIRECTION OF SIGNAL HEAD)
- —OH— CABLE - OVERHEAD
- VIDEO DETECTION ZONE (NOT TO SCALE)
- 15 SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE
- FLEXIBLE TUBULAR MARKERS

LEGEND (CONTINUED)

- STAGE 2 WORK ZONE
- STAGE 2A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS

TEMPORARY TRAFFIC CONTROL SIGNAL
STEWART AVENUE &
28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL   SCALE 0 20

2

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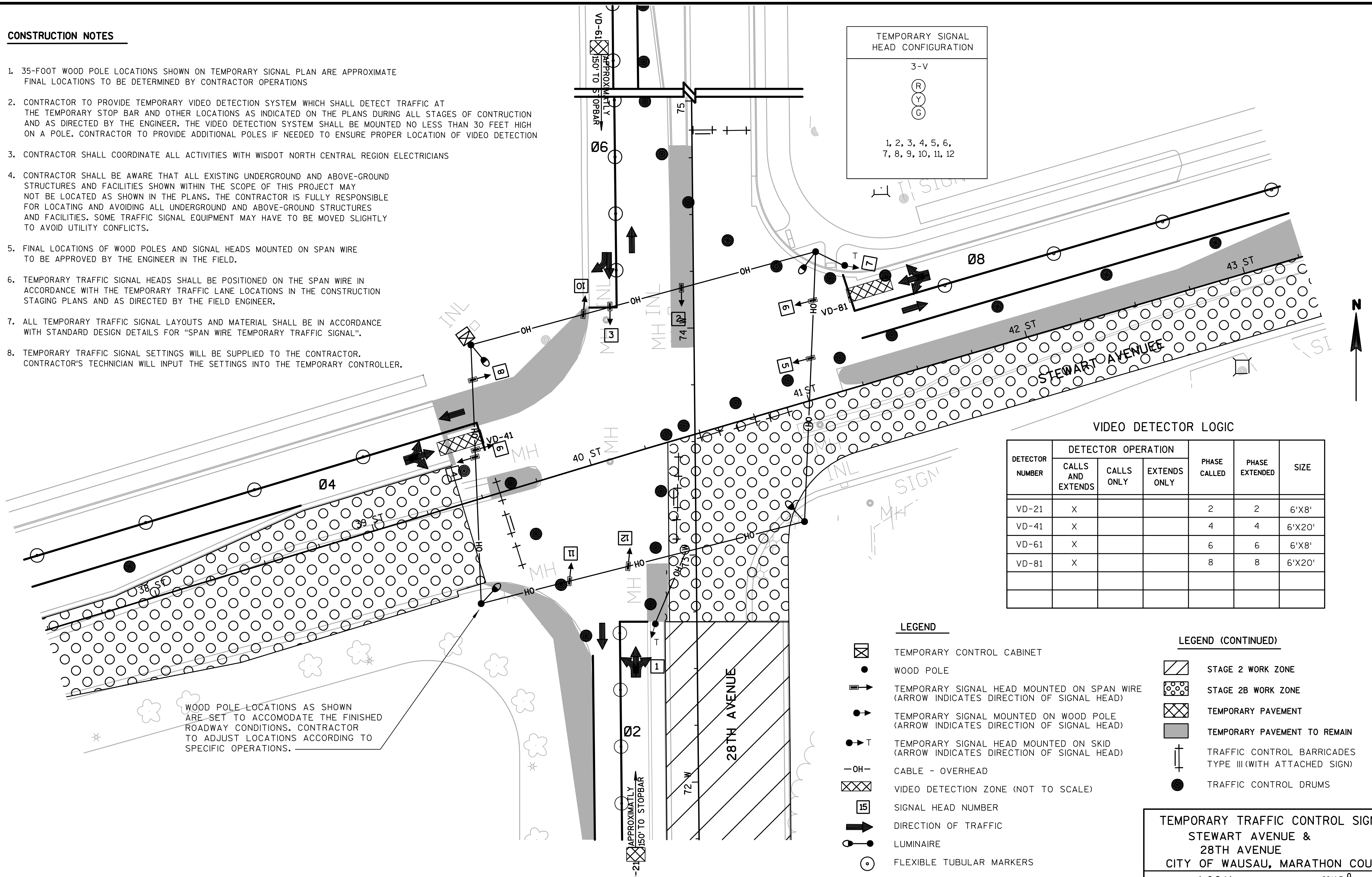

TEMPORARY SIGNAL HEAD CONFIGURATION
3-V
R Y G
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	SIZE
	CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY			
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- FLEXIBLE TUBULAR MARKERS

LEGEND (CONTINUED)

- STAGE 2 WORK ZONE
- STAGE 2B WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
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TEMPORARY TRAFFIC CONTROL SIGNAL
STEWART AVENUE &
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CITY OF WAUSAU, MARATHON COUNTY

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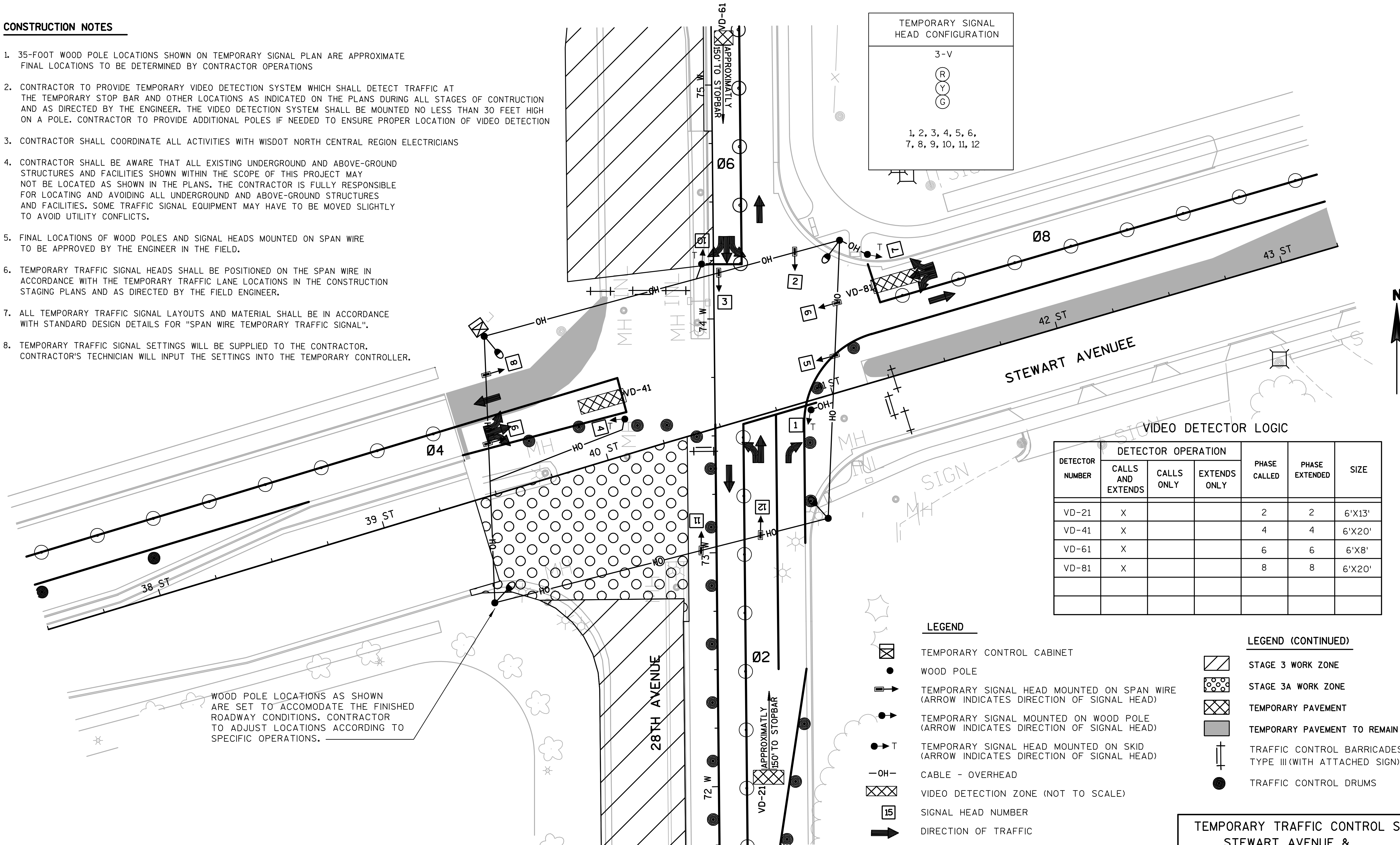

TEMPORARY SIGNAL HEAD CONFIGURATION
3-V
R Y G
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-21	X			2	2	6'X13'
VD-41	X			4	4	6'X20'
VD-61	X			6	6	6'X8'
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- LUMINAIRE
- FLEXIBLE TUBULAR MARKERS

LEGEND (CONTINUED)

- STAGE 3 WORK ZONE
- STAGE 3A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
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TEMPORARY TRAFFIC CONTROL SIGNAL
STEWART AVENUE &
28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

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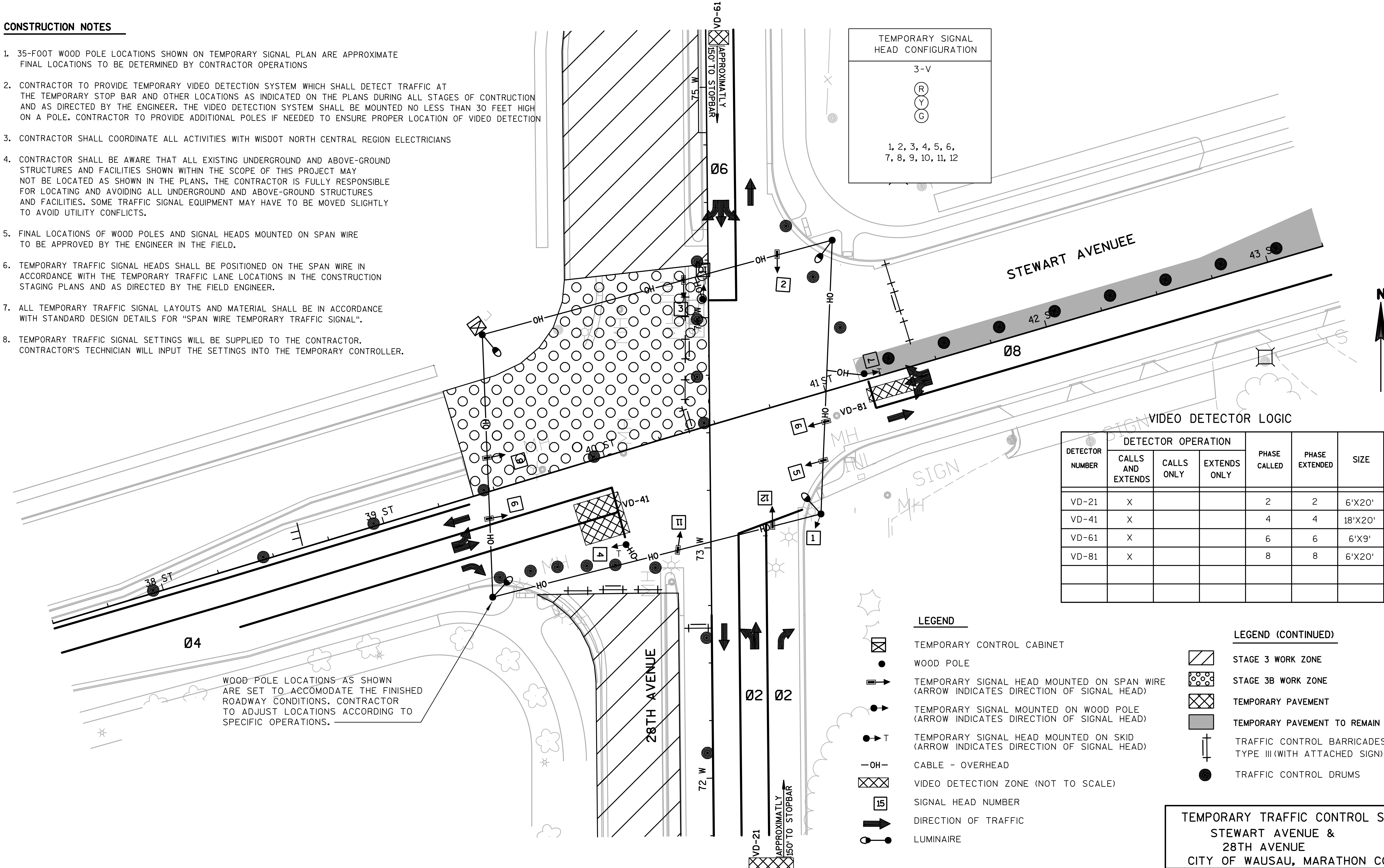

TEMPORARY SIGNAL HEAD CONFIGURATION

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1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

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LEGEND (CONTINUED)

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TEMPORARY TRAFFIC CONTROL SIGNAL
STEWART AVENUE &
28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL SCALE 0 20

PROJECT NO: 6999-09-73	HWY: USH 51/ STH 29	COUNTY: MARATHON	TEMPORARY TRAFFIC SIGNAL - STAGE 3B	SHEET 96	E

2

CONSTRUCTION NOTES

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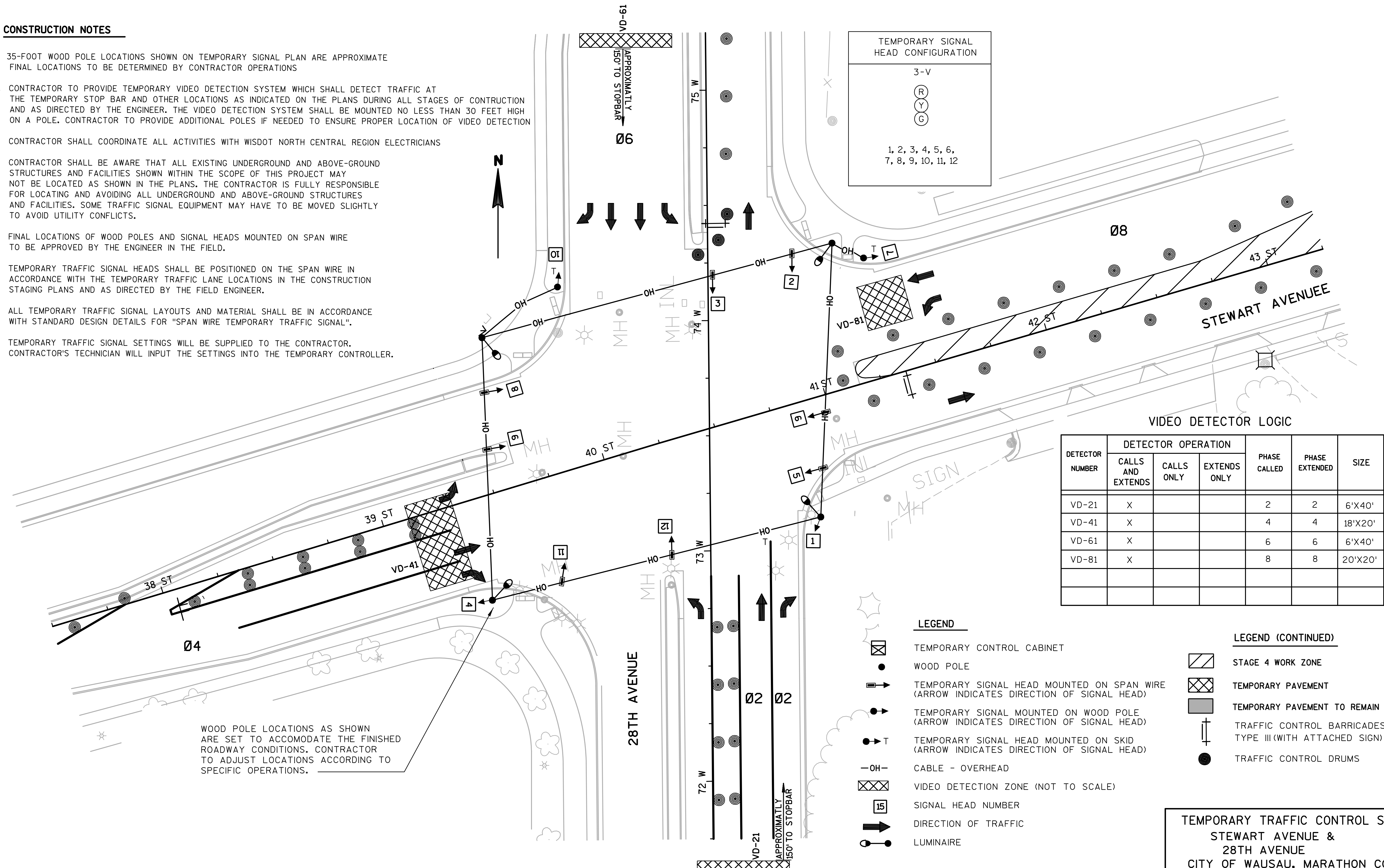

TEMPORARY SIGNAL HEAD CONFIGURATION
3-V
R Y G
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	SIZE
VD-21	X			2	2	6'X40'
VD-41	X			4	4	18'X20'
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VD-81	X			8	8	20'X20'

LEGEND

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- —OH— CABLE - OVERHEAD
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- 15: SIGNAL HEAD NUMBER
- DIRECTION OF TRAFFIC
- LUMINAIRE

LEGEND (CONTINUED)

- STAGE 4 WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS

TEMPORARY TRAFFIC CONTROL SIGNAL
STEWART AVENUE &
28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

SIGNAL NO. LOCAL

SCALE 0 20

PROJECT NO: 6999-09-73 | HWY: USH 51/ STH 29 | COUNTY: MARATHON | TEMPORARY TRAFFIC SIGNAL - STAGE 4 | SHEET 97 | E

TEMPORARY TRAFFIC SIGNAL SEQUENCE OF OPERATION

Ø1: NOT USED | Ø2: ↑ | Ø3: NOT USED | Ø4: →

RING 1

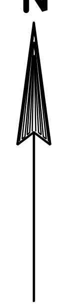
	HEAD NUMBERS	Ø1 (R/W, CLEAR TO **)	Ø2 (R/W, CLEAR TO **)	Ø3 (R/W, CLEAR TO **)	Ø4 (R/W, CLEAR TO **)	FLASH
Ø1						
Ø2	1, 2, 3		G Y R		R R R	R
Ø3						
Ø4	4, 5, 6		R R R		G Y R	R
Ø5						
Ø6	10, 11, 12		R R R		R R R	R
Ø7						
Ø8	7, 8, 9		R R R		R R R	R
Ø2P						
Ø4P						
Ø6P						
Ø8P						

Ø5: NOT USED | Ø6: ↓ | Ø7: NOT USED | Ø8: ←

RING 2

	HEAD NUMBERS	Ø5 (R/W, CLEAR TO **)	Ø6 (R/W, CLEAR TO **)	Ø7 (R/W, CLEAR TO **)	Ø8 (R/W, CLEAR TO **)
Ø1					
Ø2	1, 2, 3		R R R		R R R
Ø3					
Ø4	4, 5, 6		R R R		R R R
Ø5					
Ø6	10, 11, 12		G Y R		R R R
Ø7					
Ø8	7, 8, 9		R R R		G Y R
Ø2P					
Ø4P					
Ø6P					
Ø8P					

BARRIER



** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1		
Ø2	6	4, 8
Ø3		
Ø4	8	2, 6
Ø5		
Ø6	2	4, 8
Ø7		
Ø8	4	2, 6

VIDEO DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
VD-21	1	X			1	1				VARIES	
VD-41	2	X			2	2				VARIES	
VD-61	3	X			4	4				VARIES	
VD-81	5	X			8	8				VARIES	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL
1			
2	X	6	MIN
3			
4	X	8	MIN
5			
6	X	2	MIN
7			
8	X	4	MIN

OVERLAPS

O.L. "A" = NONE
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

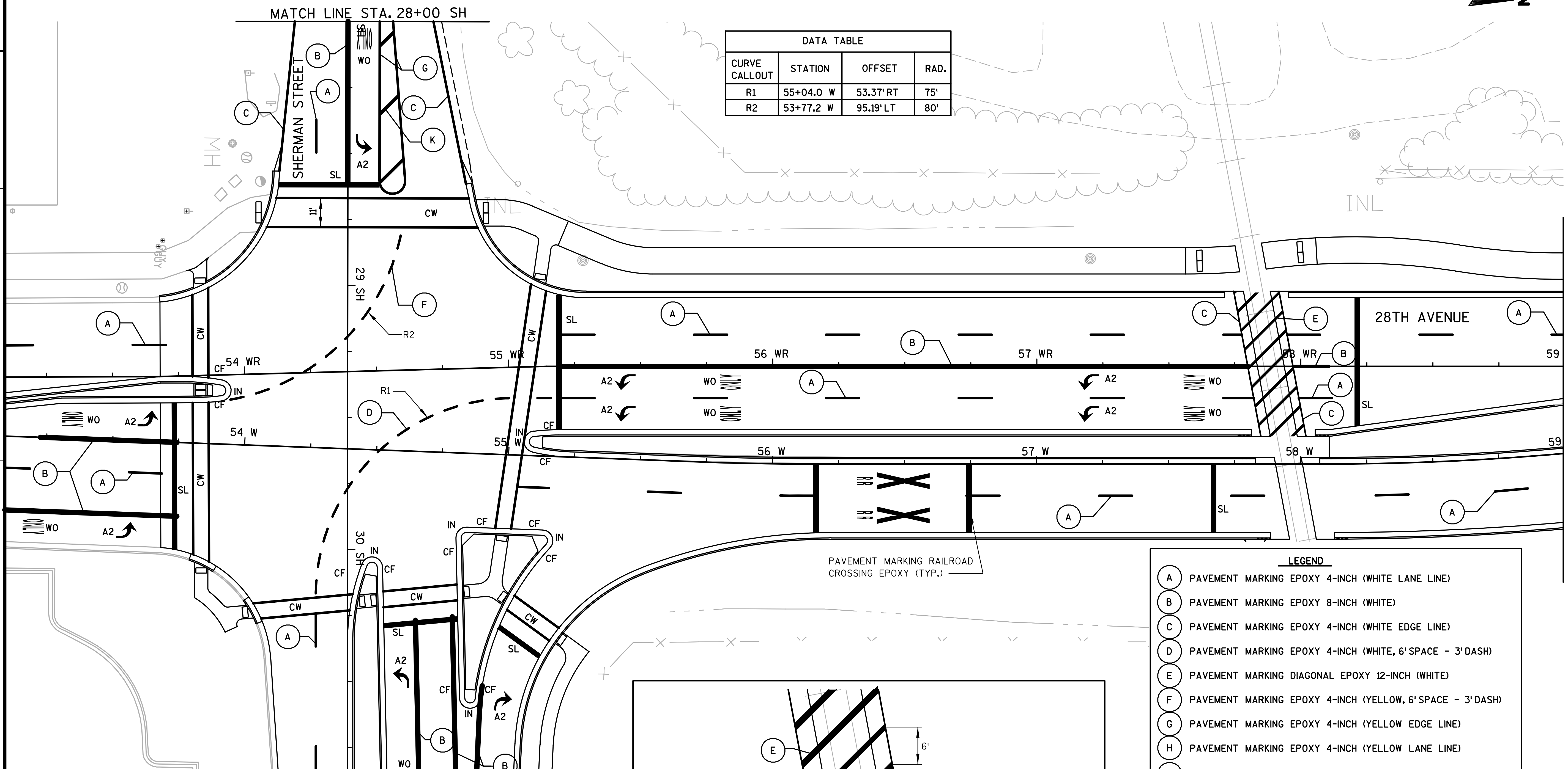
GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. PHASE 4 SHALL BE TURNED OFF DURING STAGE II

TEMPORARY TRAFFIC SIGNAL
STEWART AVENUE AND
28TH AVENUE
CITY OF WAUSAU, MARATHON COUNTY

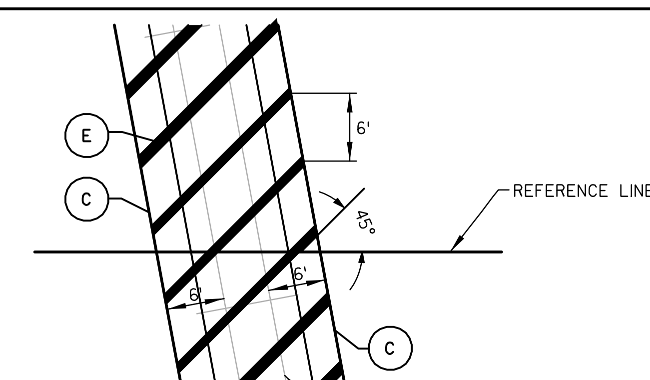
SIGNAL NO. LOCAL

DATE SHEET NO. OF



DATA TABLE

CURVE CALLOUT	STATION	OFFSET	RAD.
R1	55+04.0 W	53.37' RT	75'
R2	53+77.2 W	95.19' LT	80'



DIAGONAL PAVEMENT MARKINGS AT RAILROAD CROSSING

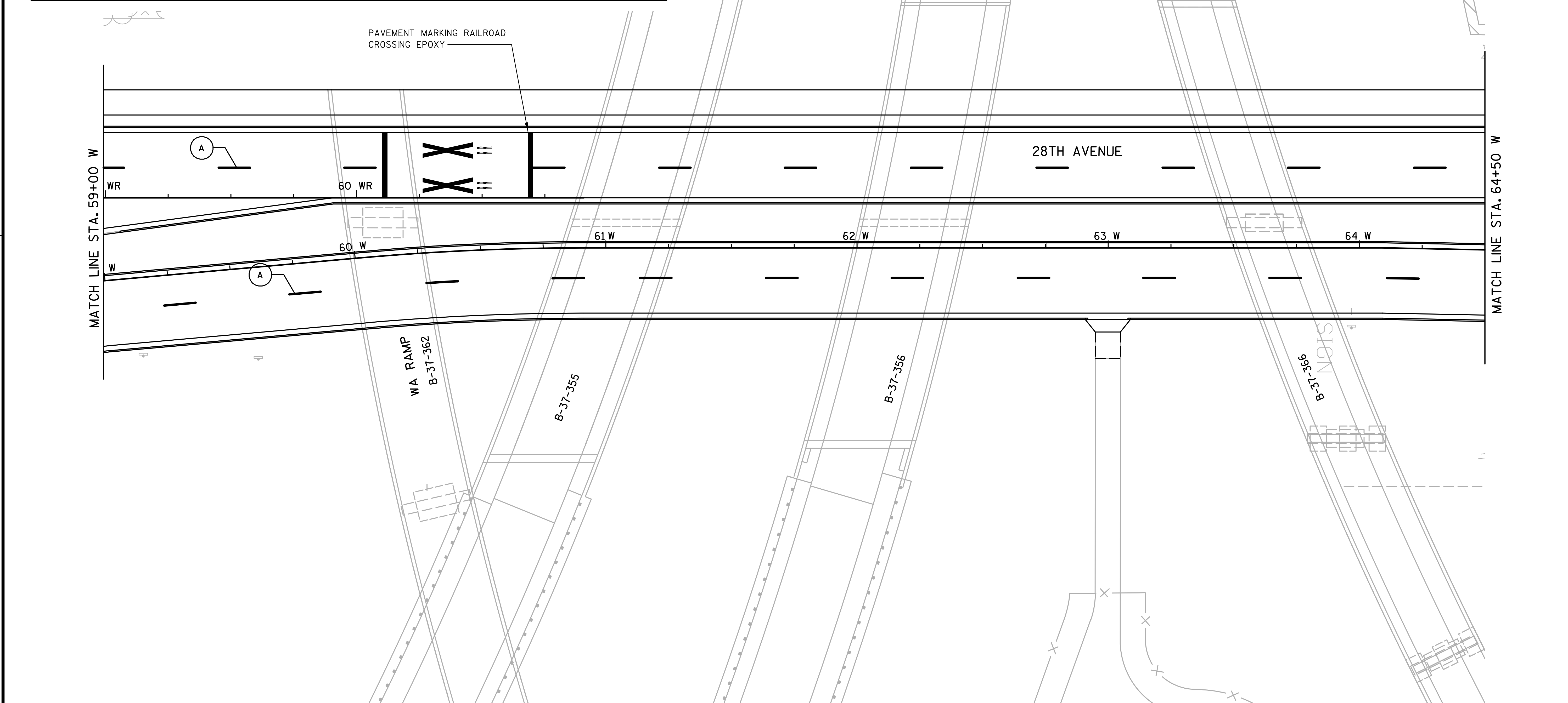
LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6' SPACE - 3' DASH)
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6' SPACE - 3' DASH)
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
IN	PAVEMENT MARKING ISLAND NOSE EPOXY
CF	PAVEMENT MARKING CURB EPOXY
CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
WO	PAVEMENT MARKING WORDS EPOXY

2

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)	IN	PAVEMENT MARKING ISLAND NOSE EPOXY
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	CF	PAVEMENT MARKING CURB EPOXY
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)	CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6' SPACE - 3' DASH)	SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)	A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6' SPACE - 3' DASH)	WO	PAVEMENT MARKING WORDS EPOXY
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)		
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)		
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)		
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)		



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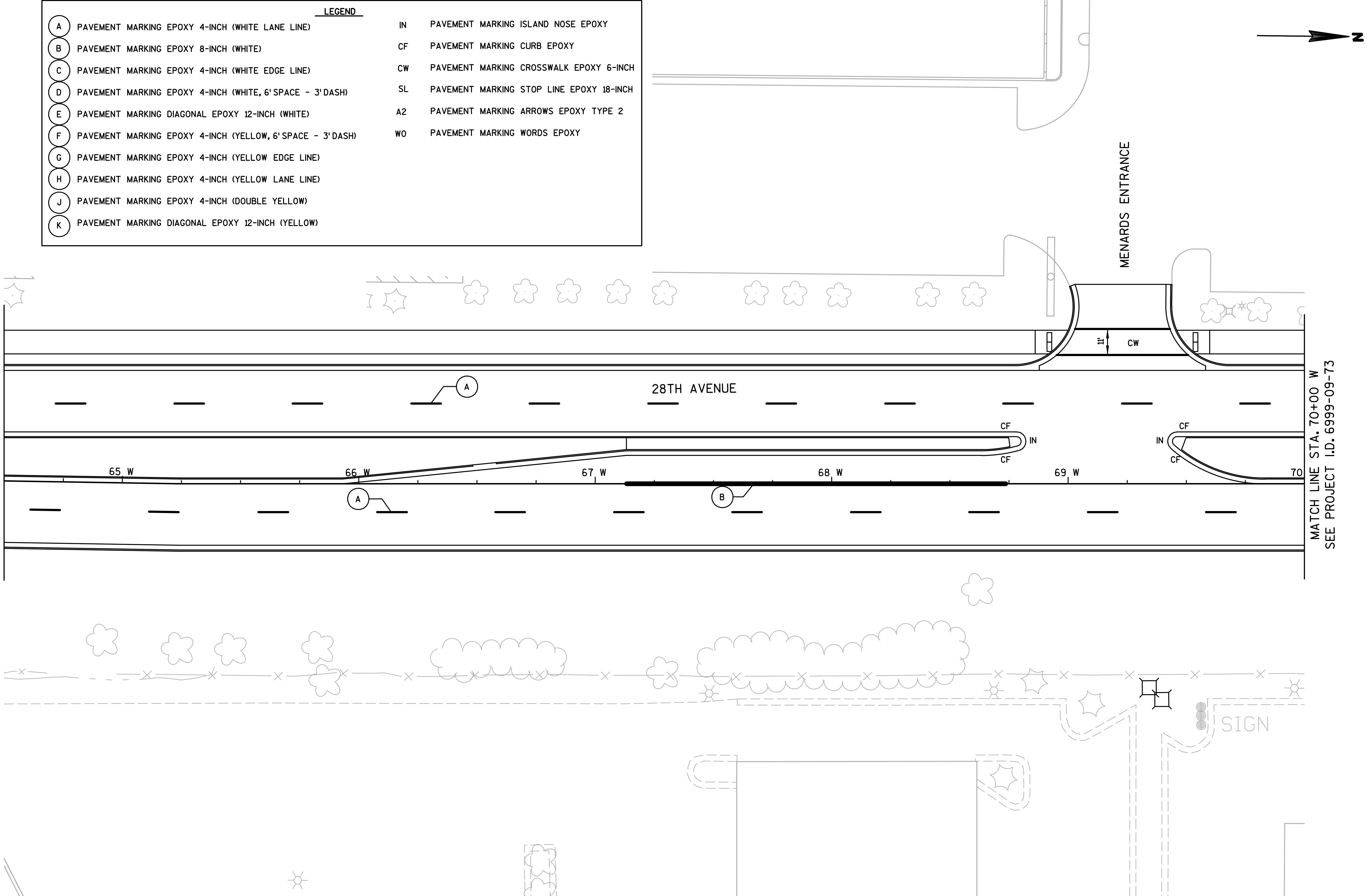
PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVEMENT MARKING	SHEET 100 E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\024502_pm.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)	IN	PAVEMENT MARKING ISLAND NOSE EPOXY
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	CF	PAVEMENT MARKING CURB EPOXY
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)	CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6' SPACE - 3' DASH)	SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)	A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6' SPACE - 3' DASH)	WO	PAVEMENT MARKING WORDS EPOXY
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)		
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)		
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)		
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)		



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PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVEMENT MARKING	SHEET 101	E

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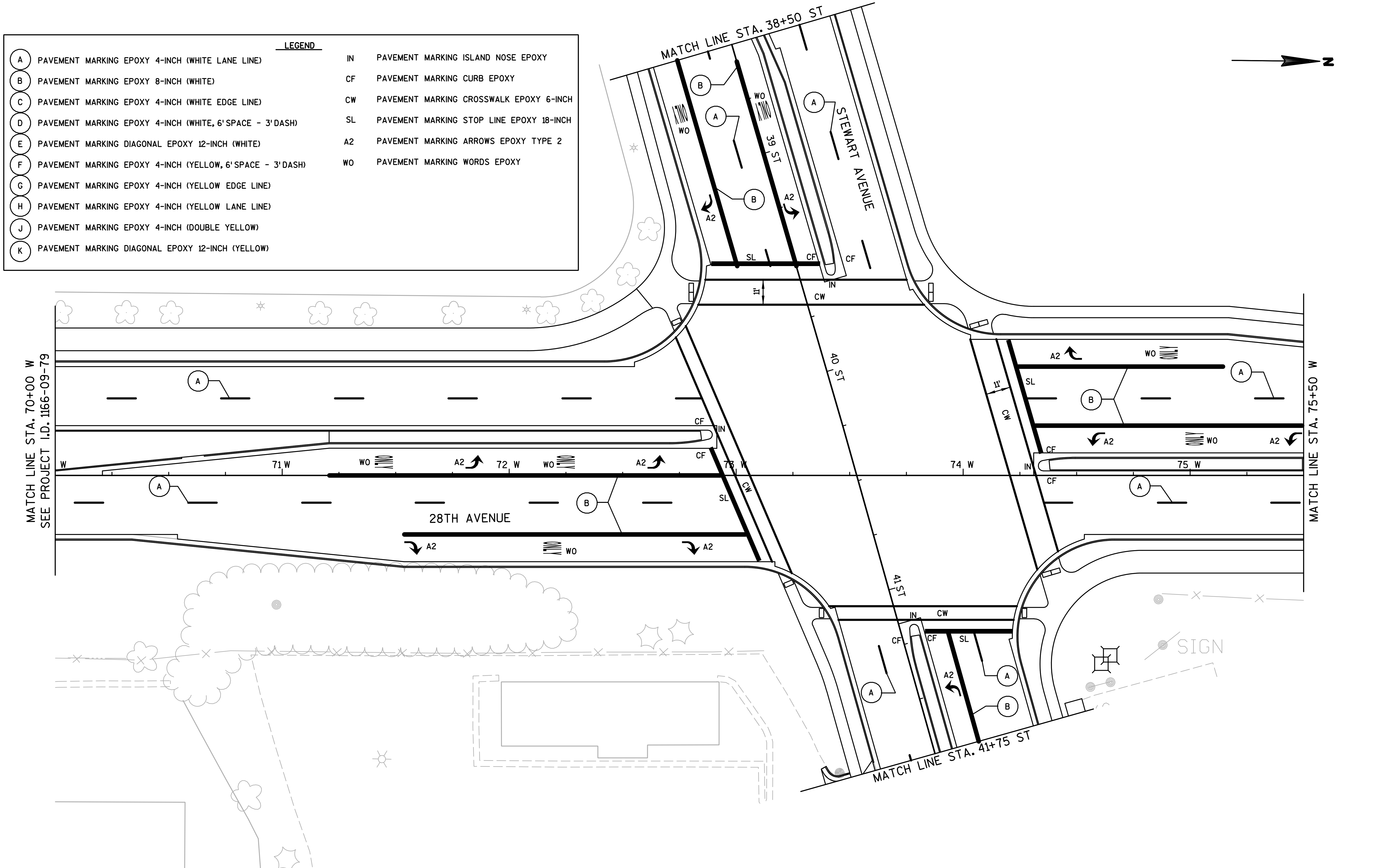
2

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)	IN	PAVEMENT MARKING ISLAND NOSE EPOXY
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	CF	PAVEMENT MARKING CURB EPOXY
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)	CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6' SPACE - 3' DASH)	SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)	A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6' SPACE - 3' DASH)	WO	PAVEMENT MARKING WORDS EPOXY
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)		
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)		
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)		
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)		



PROJECT NO:6999-09-73	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVEMENT MARKING	SHEET 102	E

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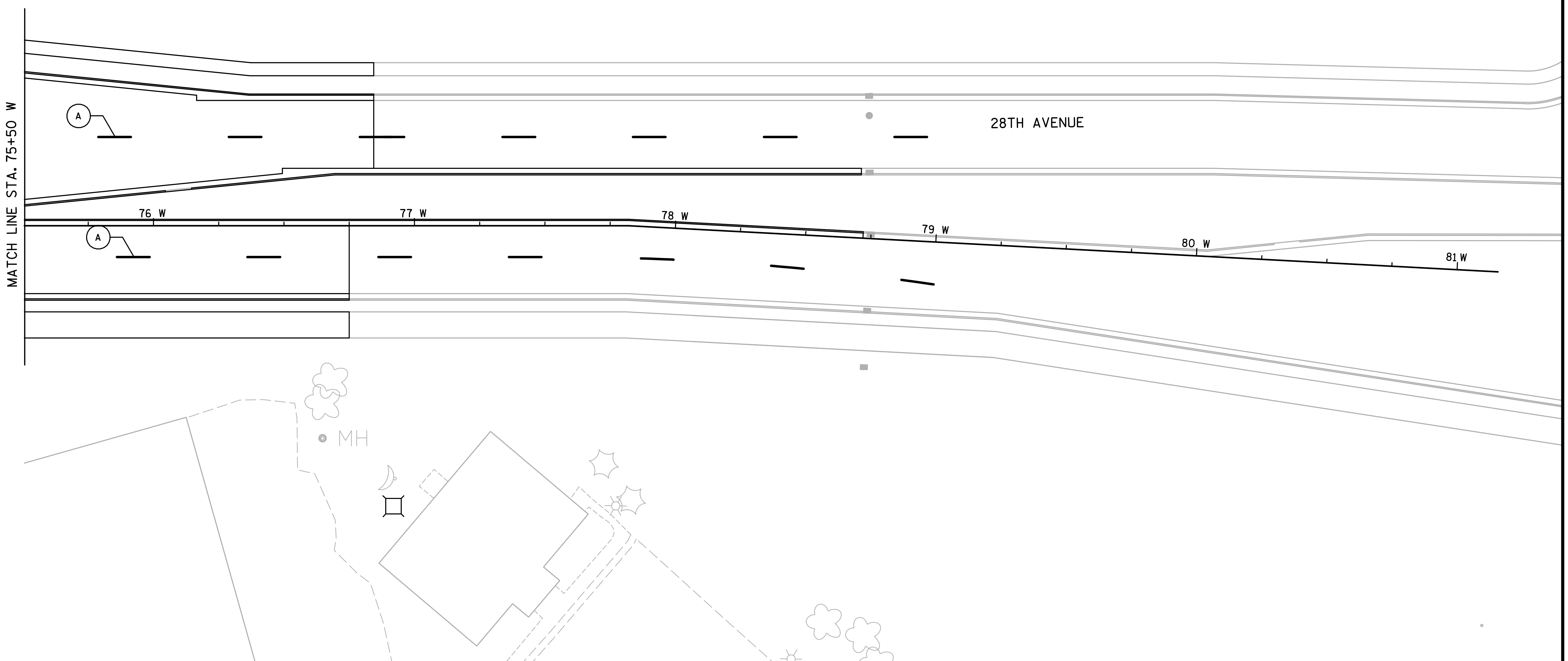
N

LEGEND

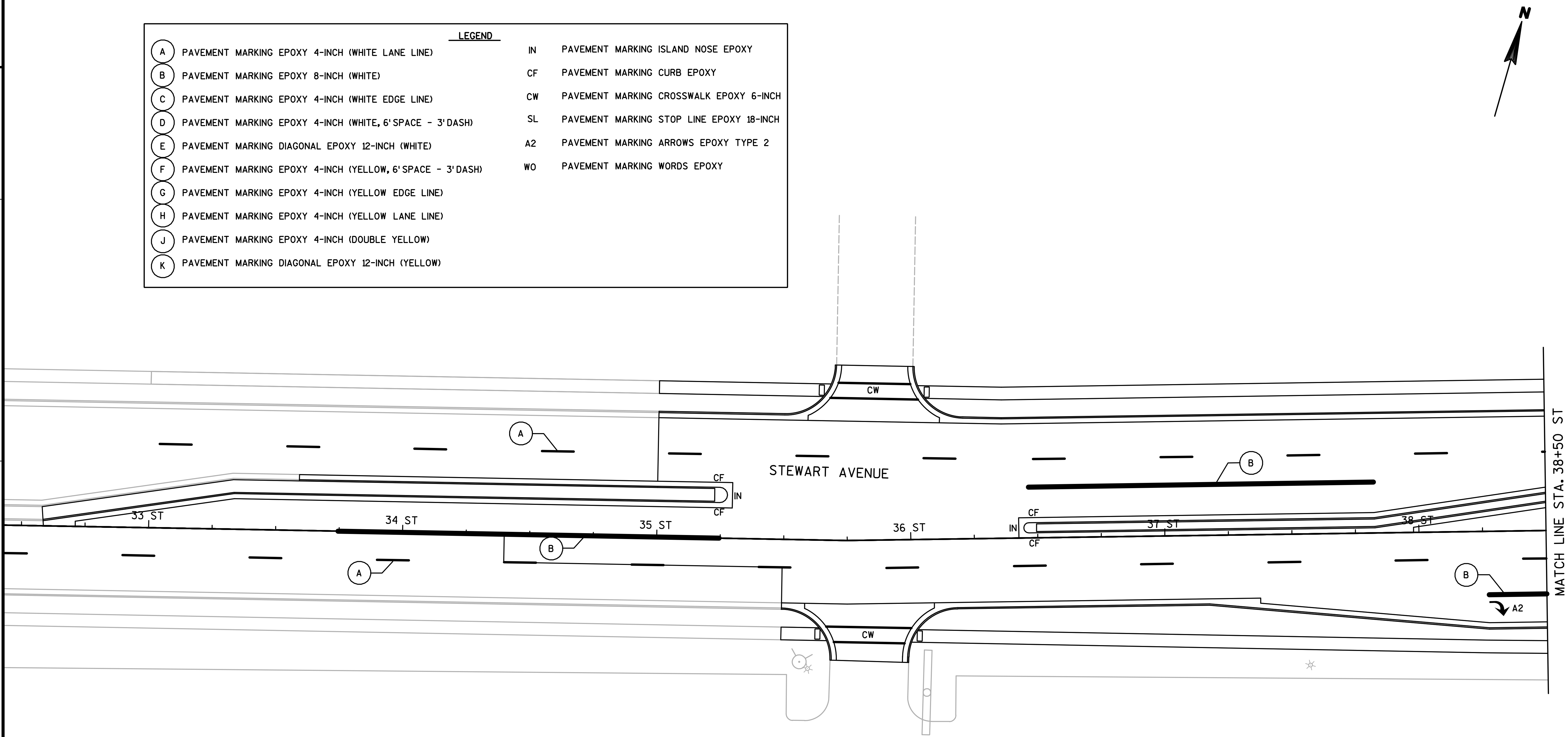
A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6'SPACE - 3'DASH)
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6'SPACE - 3'DASH)
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
IN	PAVEMENT MARKING ISLAND NOSE EPOXY
CF	PAVEMENT MARKING CURB EPOXY
CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
WO	PAVEMENT MARKING WORDS EPOXY



2

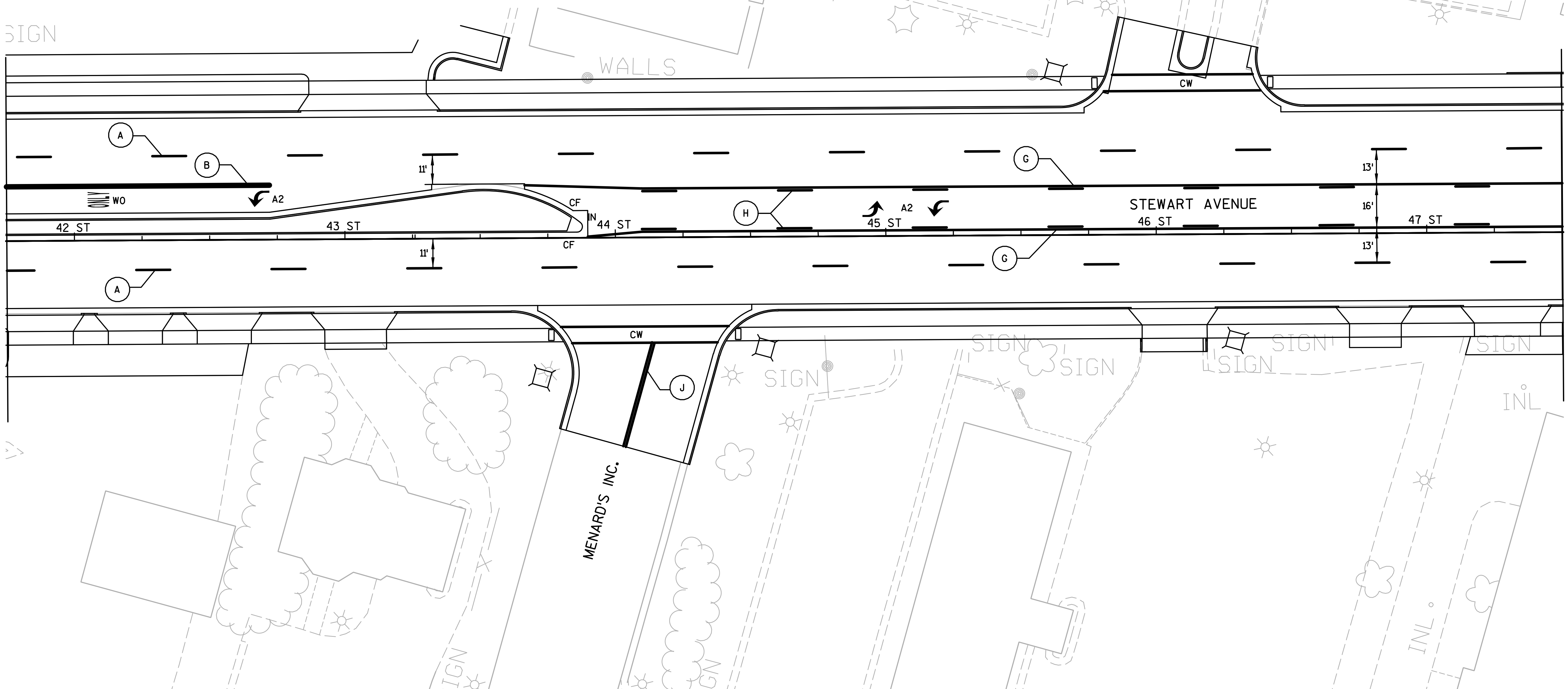
LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6'SPACE - 3'DASH)
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6'SPACE - 3'DASH)
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
IN	PAVEMENT MARKING ISLAND NOSE EPOXY
CF	PAVEMENT MARKING CURB EPOXY
CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
WO	PAVEMENT MARKING WORDS EPOXY



LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6' SPACE - 3' DASH)
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6' SPACE - 3' DASH)
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
IN	PAVEMENT MARKING ISLAND NOSE EPOXY
CF	PAVEMENT MARKING CURB EPOXY
CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
WO	PAVEMENT MARKING WORDS EPOXY



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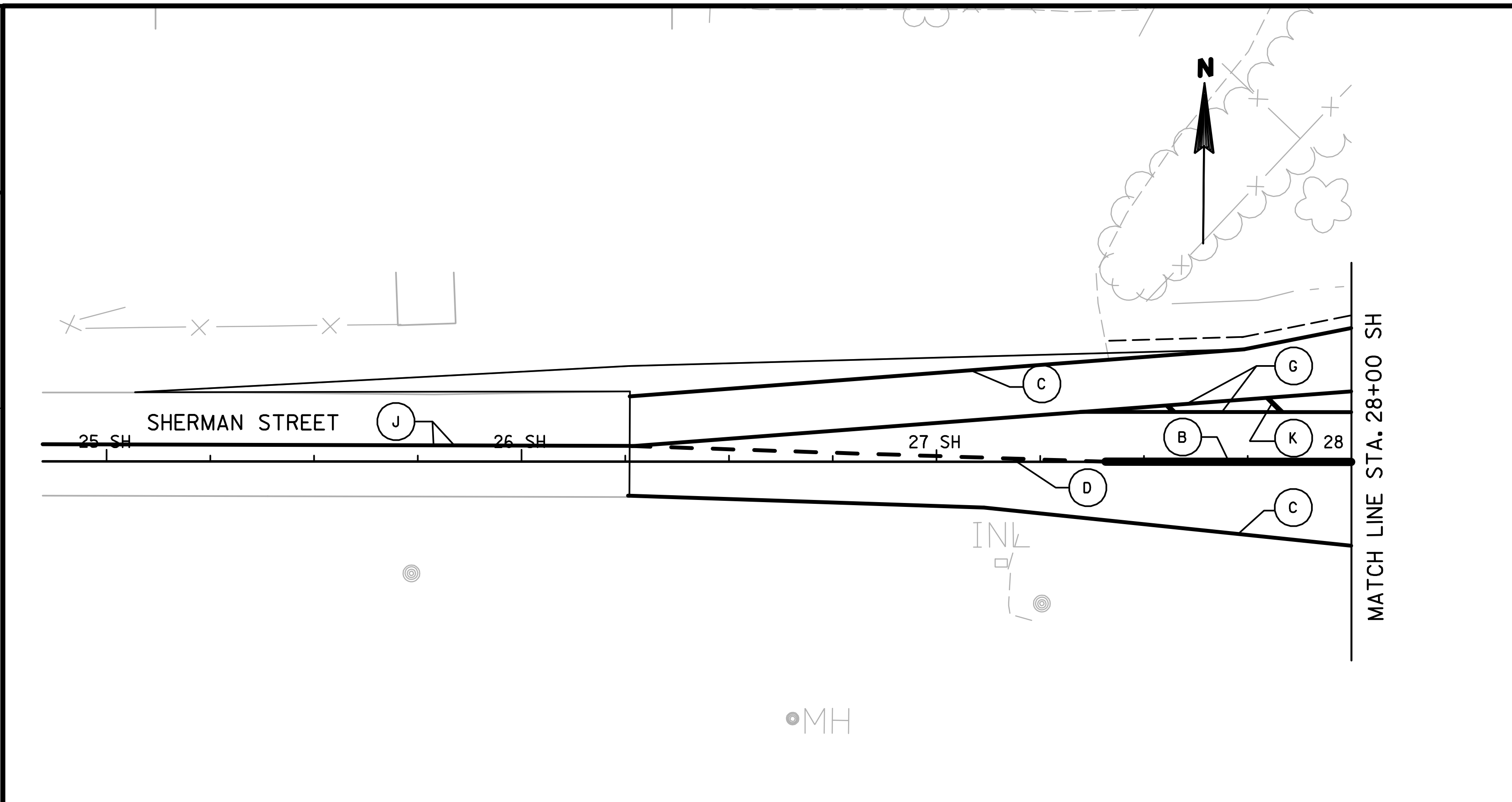
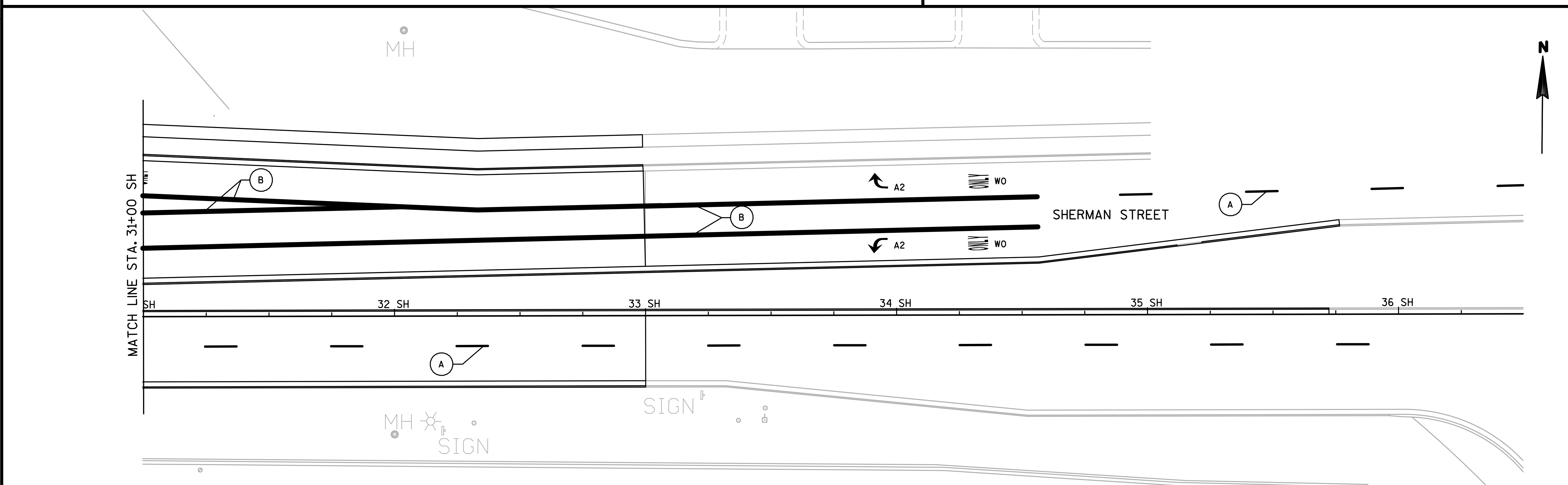


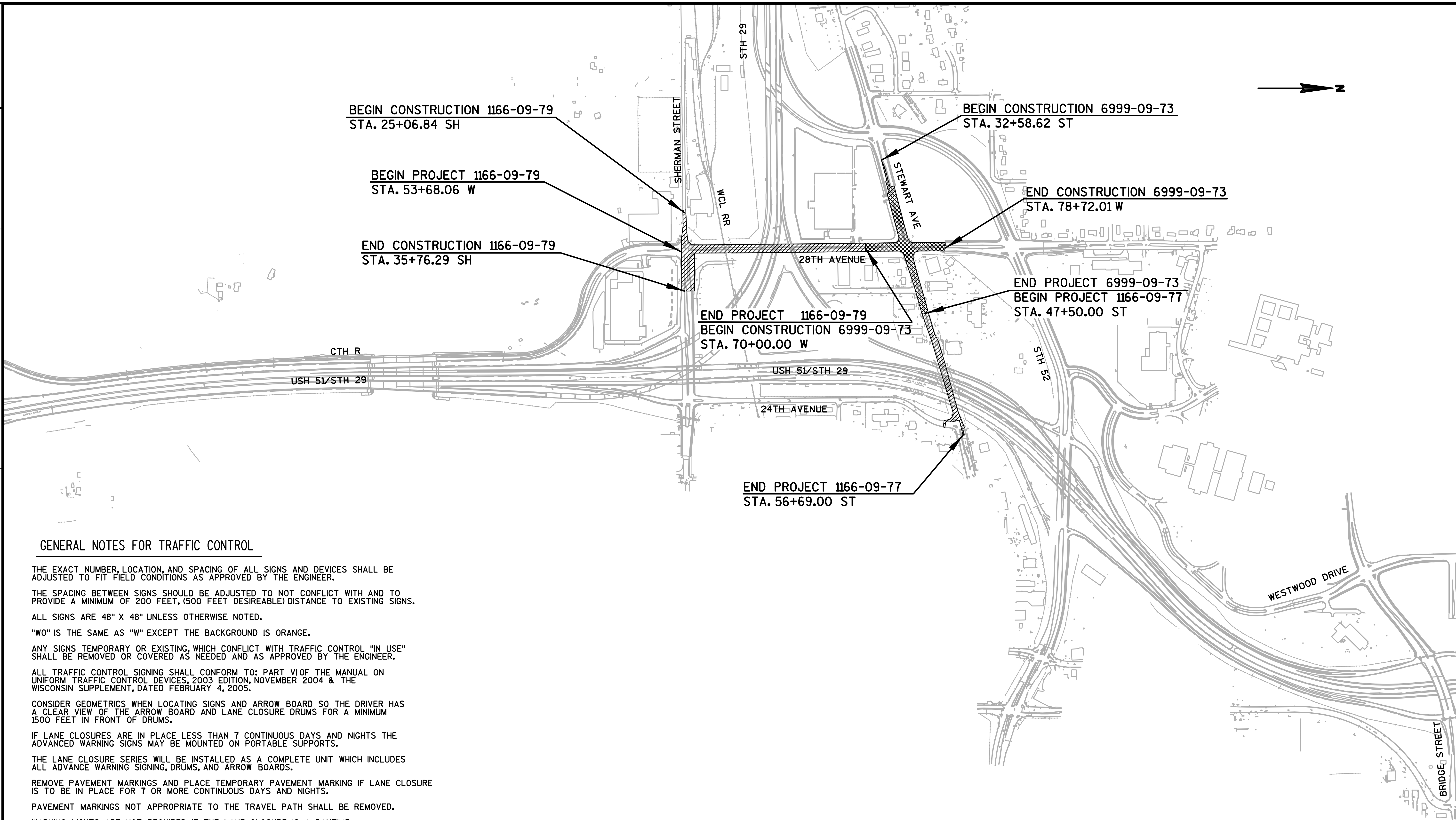
LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH (WHITE LANE LINE)
B	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
C	PAVEMENT MARKING EPOXY 4-INCH (WHITE EDGE LINE)
D	PAVEMENT MARKING EPOXY 4-INCH (WHITE, 6' SPACE - 3' DASH)
E	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
F	PAVEMENT MARKING EPOXY 4-INCH (YELLOW, 6' SPACE - 3' DASH)
G	PAVEMENT MARKING EPOXY 4-INCH (YELLOW EDGE LINE)
H	PAVEMENT MARKING EPOXY 4-INCH (YELLOW LANE LINE)
J	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
K	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
IN	PAVEMENT MARKING ISLAND NOSE EPOXY
CF	PAVEMENT MARKING CURB EPOXY
CW	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
SL	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
A2	PAVEMENT MARKING ARROWS EPOXY TYPE 2
WO	PAVEMENT MARKING WORDS EPOXY

2



PROJECT NO:1166-09-79	HWY:USH 51/STH 29	COUNTY:MARATHON	PAVEMENT MARKING	SHEET 108	E



GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO: PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION, NOVEMBER 2004 & THE WISCONSIN SUPPLEMENT, DATED FEBRUARY 4, 2005.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

IF LANE CLOSURES ARE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

THE LANE CLOSURE SERIES WILL BE INSTALLED AS A COMPLETE UNIT WHICH INCLUDES ALL ADVANCE WARNING SIGNING, DRUMS, AND ARROW BOARDS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

PAVEMENT MARKINGS NOT APPROPRIATE TO THE TRAVEL PATH SHALL BE REMOVED.

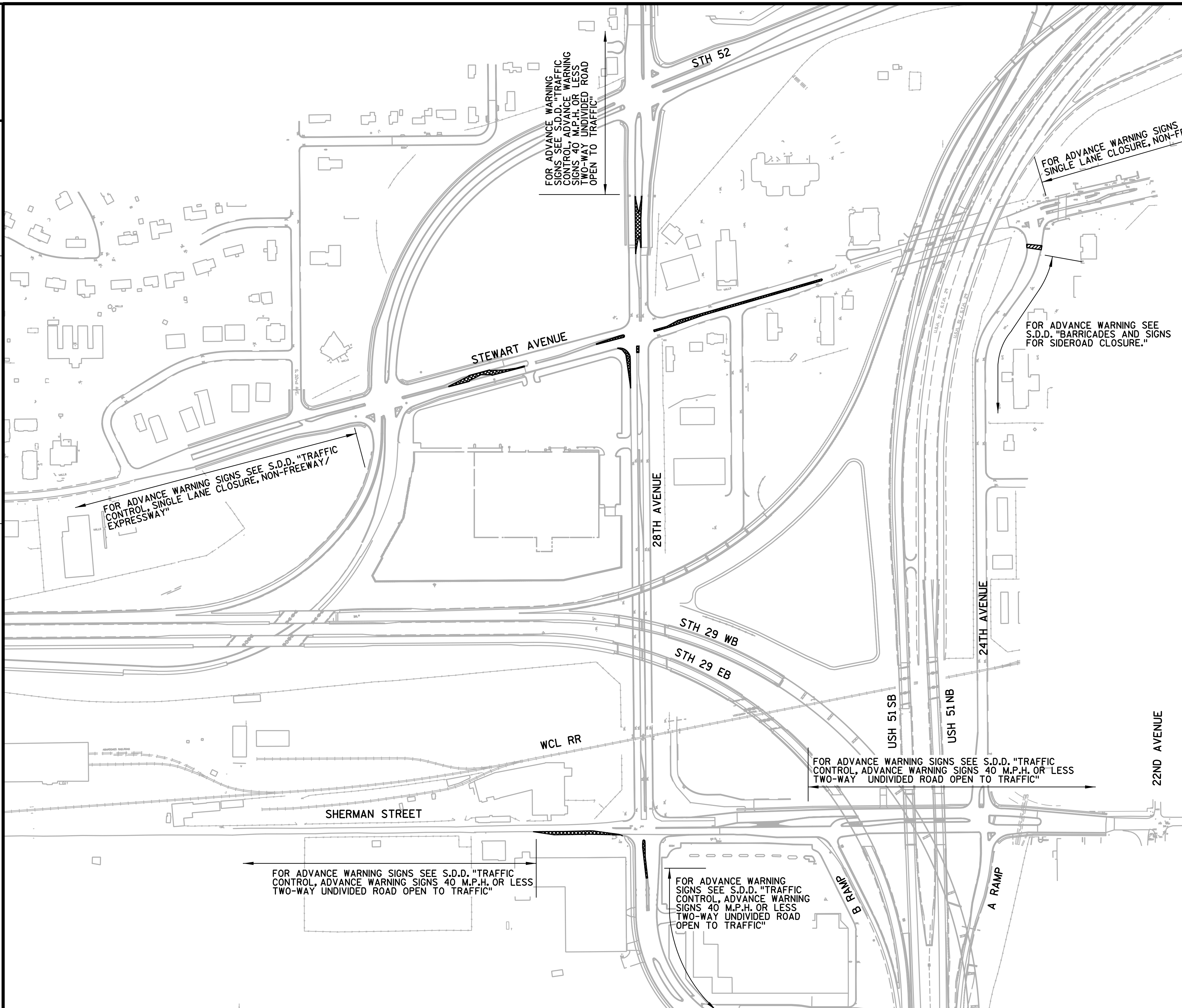
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

DRUM SPACING =
25' ON RADII AND TAPERS
50' ON TANGENT

TRAFFIC CONTROL STAGING FOR PROJECT ID'S 1166-09-77, 1166-09-79, 1166-11-75, 1166-11-76, 1166-11-79, AND 6999-09-73 HAVE BEEN COORDINATED.

INDIVIDUAL PROJECTS DO NOT NECESSARILY INCLUDE ALL STAGES.

PROJECT NO: 1166-09-77/79&6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	GENERAL NOTES FOR TRAFFIC CONTROL	SHEET 109	E



STAGE 1

PURPOSE:

COMPLETE THE TEMPORARY PAVEMENT ALONG 28TH AVENUE, STEWART AVENUE, AND SHERMAN STREET. INSTALL STORM SEWER CROSSING UNDER 24TH AVENUE.

TRAFFIC HANDLING:

28TH AVENUE SHALL BE OPEN TO TRAFFIC.

STEWART AVENUE SHALL BE OPEN TO TRAFFIC.

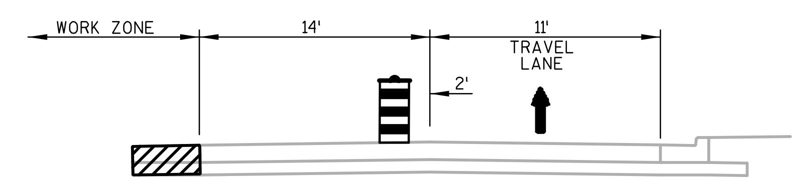
SHERMAN STREET SHALL BE OPEN TO TRAFFIC.

24TH AVENUE SHALL BE CLOSED TO TRAFFIC

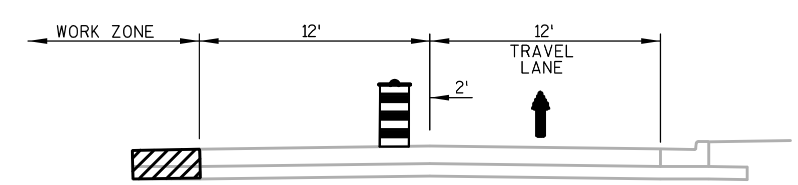
RESTRICTIONS:

TRAFFIC CONTROL SHALL INCLUDE TEMPORARY LANE CLOSURES ON 28TH AVENUE, STEWART AVENUE, AND SHERMAN STREET DURING THE CONSTRUCTION OF TEMPORARY ASPHALT WIDENING.

24TH AVENUE SHALL BE CLOSED TO TRAFFIC DURING INSTALLATION OF THE STORM SEWER CROSSING

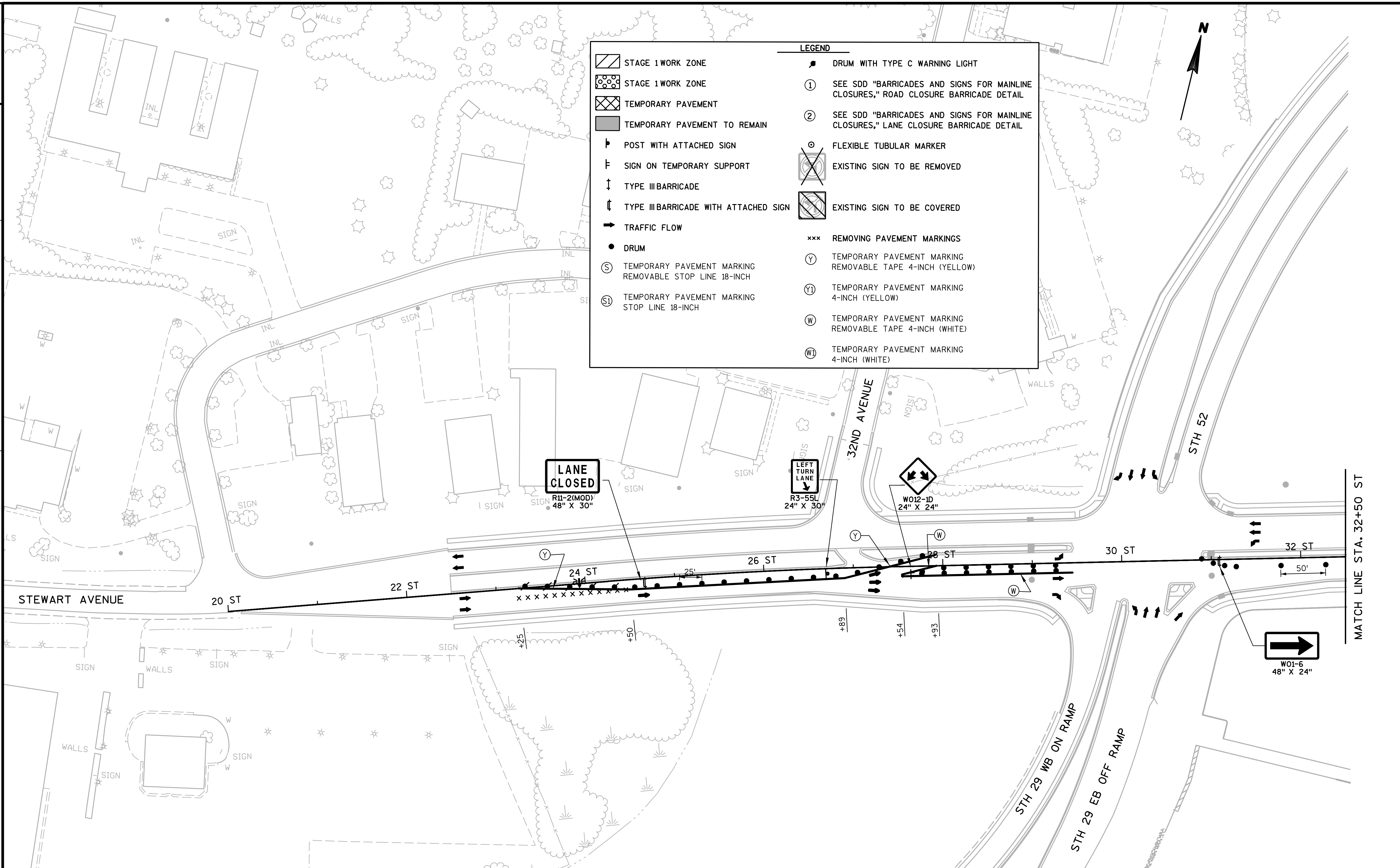


STAGE 1A - STEWART AVENUE



STAGE 1A - 28TH AVENUE

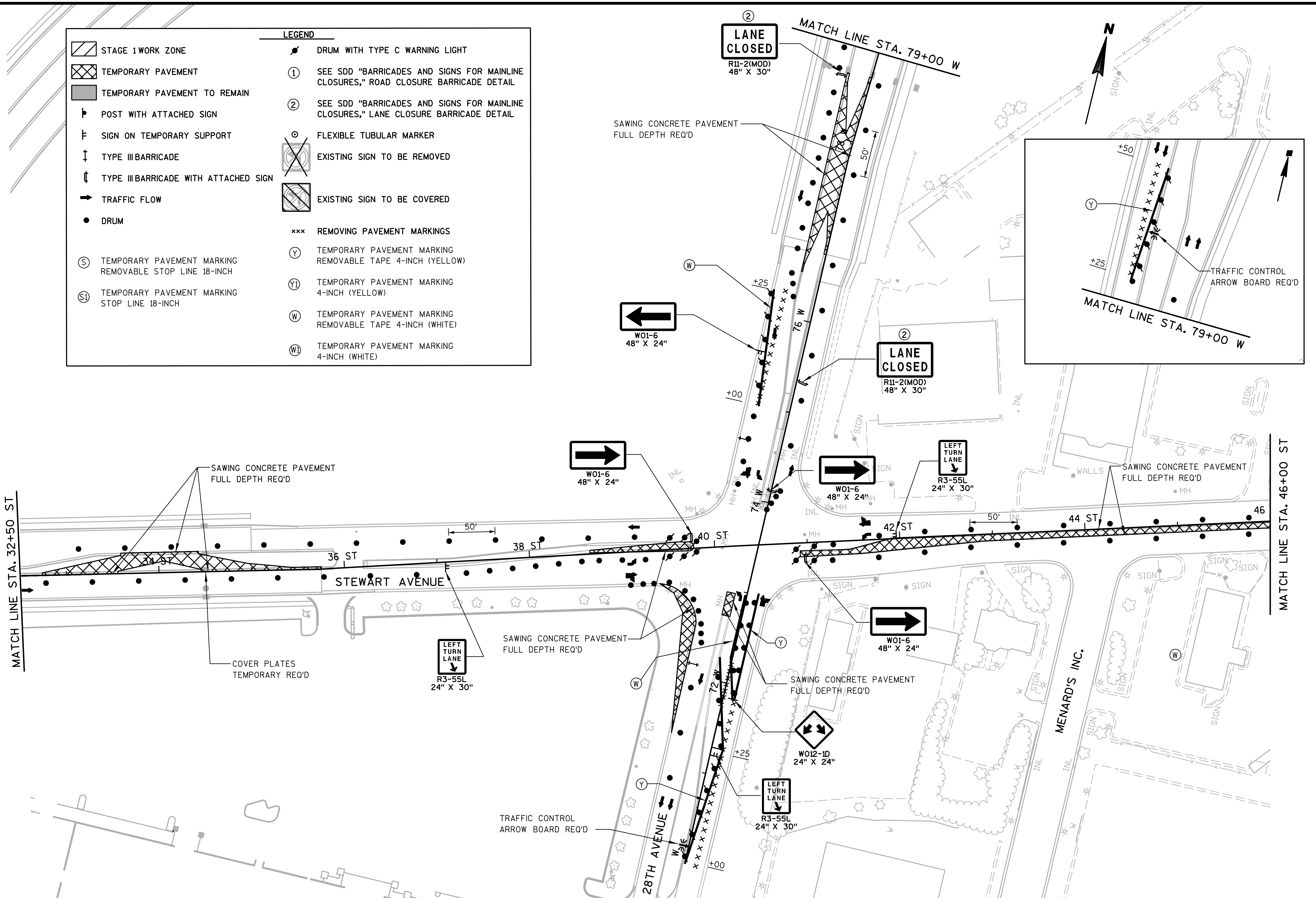
PROJECT NO:1166-09-77/79&6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING OVERVIEW - STAGE 1	SHEET 110	E



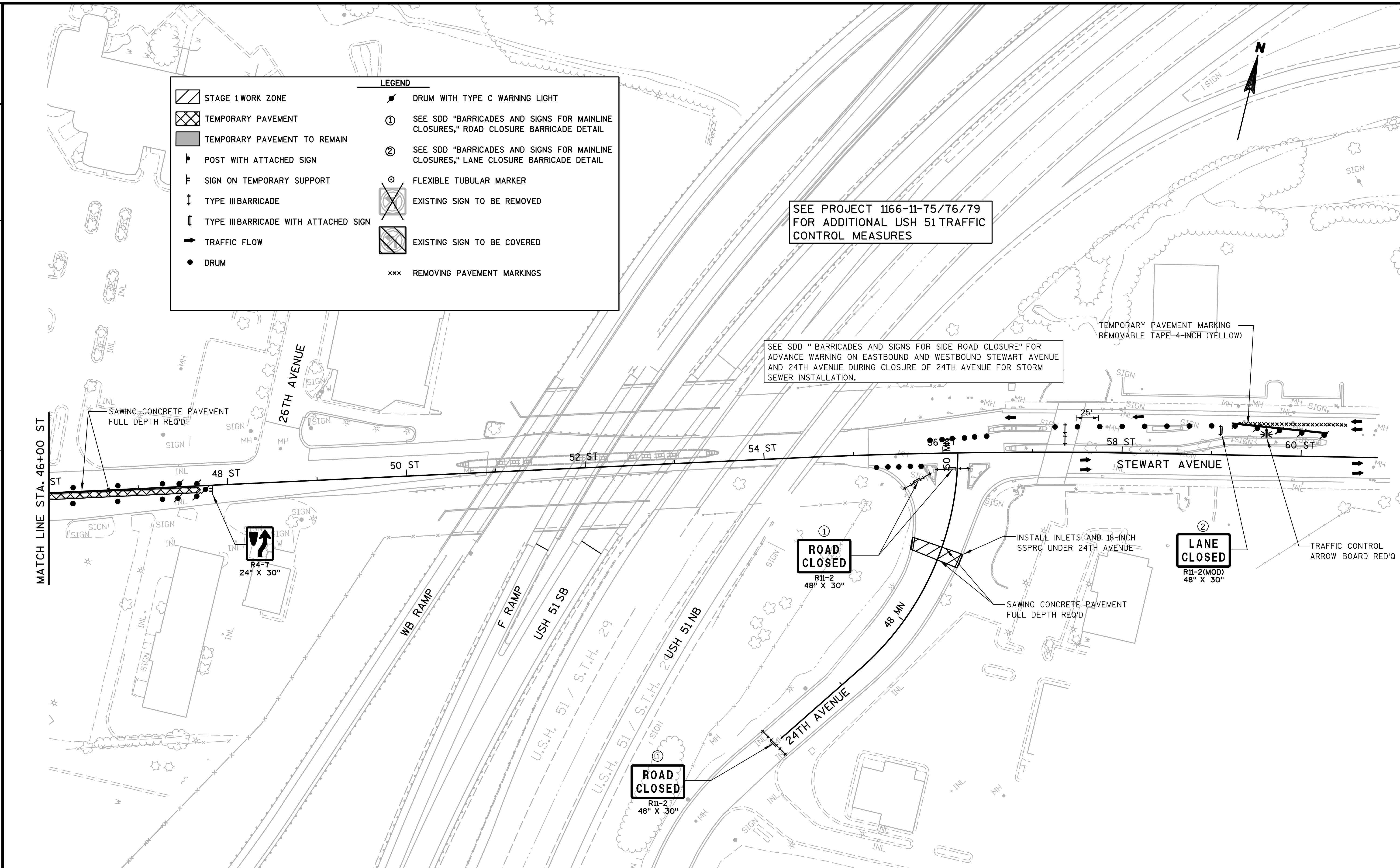
PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 111	E

LEGEND

	STAGE 1 WORK ZONE		DRUM WITH TYPE C WARNING LIGHT
	TEMPORARY PAVEMENT	(1)	SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
	TEMPORARY PAVEMENT TO REMAIN	(2)	SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
	POST WITH ATTACHED SIGN		FLEXIBLE TUBULAR MARKER
	SIGN ON TEMPORARY SUPPORT		EXISTING SIGN TO BE REMOVED
	TYPE III BARRICADE		EXISTING SIGN TO BE COVERED
	TYPE III BARRICADE WITH ATTACHED SIGN	×××	REMOVING PAVEMENT MARKINGS
	TRAFFIC FLOW	(Y)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
	DRUM	(Y1)	TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
(S)	TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH	(W)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
(S1)	TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	(W1)	TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)



PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 112 E



PROJECT NO:1166-09-77 & 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 113	E

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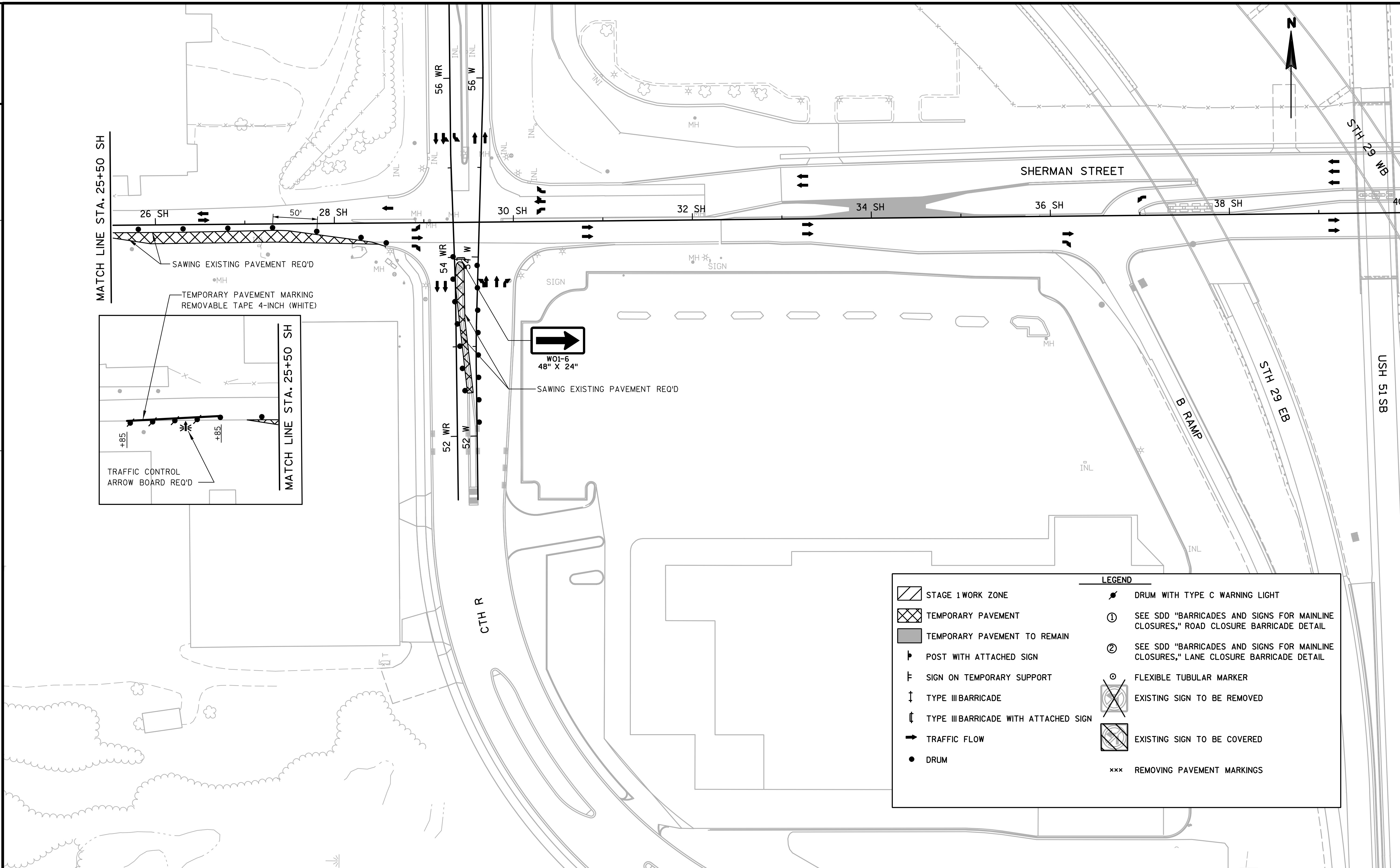
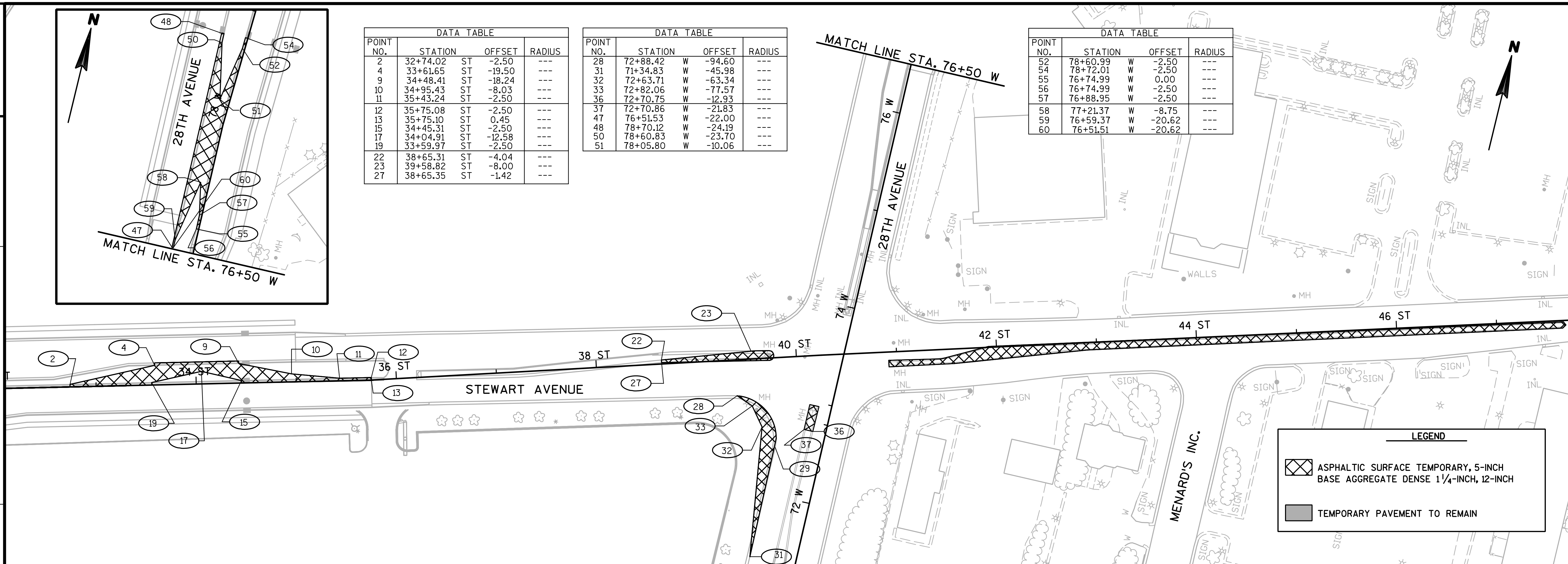


LEGEND

STAGE 1 WORK ZONE	DRUM WITH TYPE C WARNING LIGHT
TEMPORARY PAVEMENT	① SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
TEMPORARY PAVEMENT TO REMAIN	② SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
POST WITH ATTACHED SIGN	FLEXIBLE TUBULAR MARKER
SIGN ON TEMPORARY SUPPORT	EXISTING SIGN TO BE REMOVED
TYPE III BARRICADE	EXISTING SIGN TO BE COVERED
TYPE III BARRICADE WITH ATTACHED SIGN	××× REMOVING PAVEMENT MARKINGS
TRAFFIC FLOW	
DRUM	

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 114	E

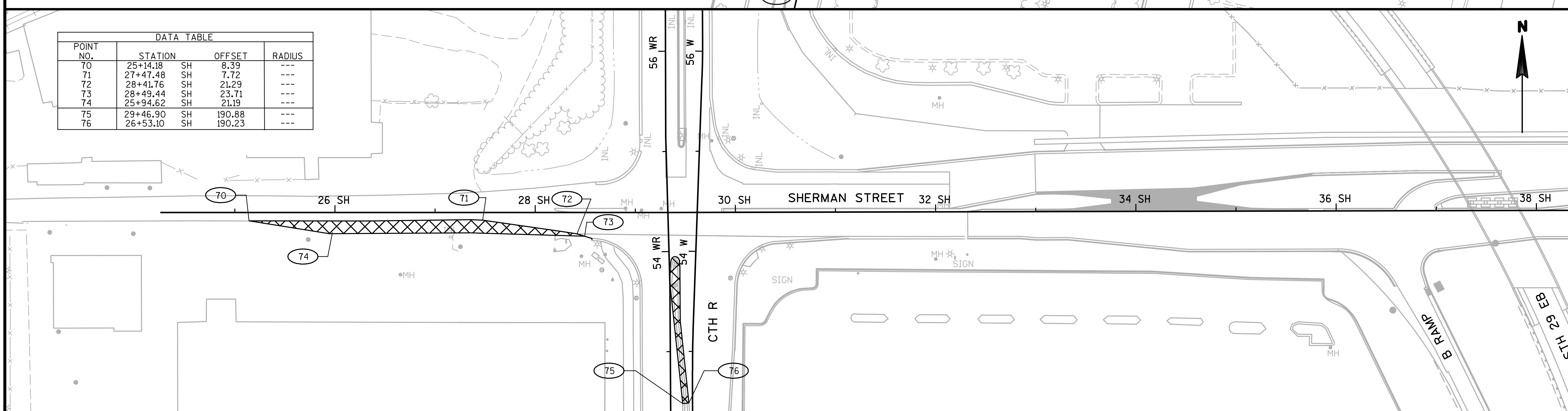
2



DATA TABLE				
POINT NO.	STATION		OFFSET	RADIUS
2	32+74.02	ST	-2.50	---
4	33+61.65	ST	-19.50	---
9	34+48.41	ST	-18.24	---
10	34+95.43	ST	-8.03	---
11	35+43.24	ST	-2.50	---
12	35+75.08	ST	-2.50	---
13	35+75.10	ST	0.45	---
15	34+45.31	ST	-2.50	---
17	34+04.91	ST	-12.58	---
19	33+59.97	ST	-2.50	---
22	38+65.31	ST	-4.04	---
23	39+58.82	ST	-8.00	---
27	38+65.35	ST	-1.42	---

DATA TABLE				
POINT NO.	STATION		OFFSET	RADIUS
28	72+88.42	W	-94.60	---
31	71+34.83	W	-45.98	---
32	72+63.71	W	-63.34	---
33	72+82.06	W	-77.57	---
36	72+70.75	W	-12.93	---
37	72+70.86	W	-21.83	---
47	76+51.53	W	-22.00	---
48	78+70.12	W	-24.19	---
50	78+60.83	W	-23.70	---
51	78+05.80	W	-10.06	---

DATA TABLE				
POINT NO.	STATION		OFFSET	RADIUS
52	78+60.99	W	-2.50	---
54	78+72.01	W	-2.50	---
55	76+74.99	W	0.00	---
56	76+74.99	W	-2.50	---
57	76+88.95	W	-2.50	---
58	77+21.37	W	-8.75	---
59	76+59.37	W	-20.62	---
60	76+51.51	W	-20.62	---



DATA TABLE				
POINT NO.	STATION		OFFSET	RADIUS
70	25+14.18	SH	8.39	---
71	27+47.48	SH	7.72	---
72	28+41.76	SH	21.29	---
73	28+49.44	SH	23.71	---
74	25+94.62	SH	21.19	---
75	29+46.90	SH	190.88	---
76	26+53.10	SH	190.23	---

PROJECT NO:1166-09-79 & 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - TEMPORARY WIDENING, STAGE 1	SHEET 115	E

STAGE 2A

PURPOSE:
BEGIN CONSTRUCTING THE NORTHBOUND LANES OF 28TH AVENUE FROM SHERMAN STREET TO NORTH OF STEWART AVENUE. CONSTRUCT THE NORTHWEST QUADRANT OF THE INTERSECTION AT 28TH AVENUE AND SHERMAN STREET. CONSTRUCT THE WESTBOUND LANES OF STEWART AVENUE FROM 32ND AVENUE TO 26TH AVENUE. BEGIN CONSTRUCTING THE EASTBOUND AND WESTBOUND LANES OF STEWART AVENUE FROM 26TH AVENUE TO 24TH AVENUE. CONSTRUCT THE WESTBOUND LANES OF SHERMAN STREET.

TRAFFIC HANDLING:
TRAFFIC ON 28TH AVENUE SHALL BE COUNTER-DIRECTIONAL ON EXISTING SOUTHBOUND PAVEMENT.

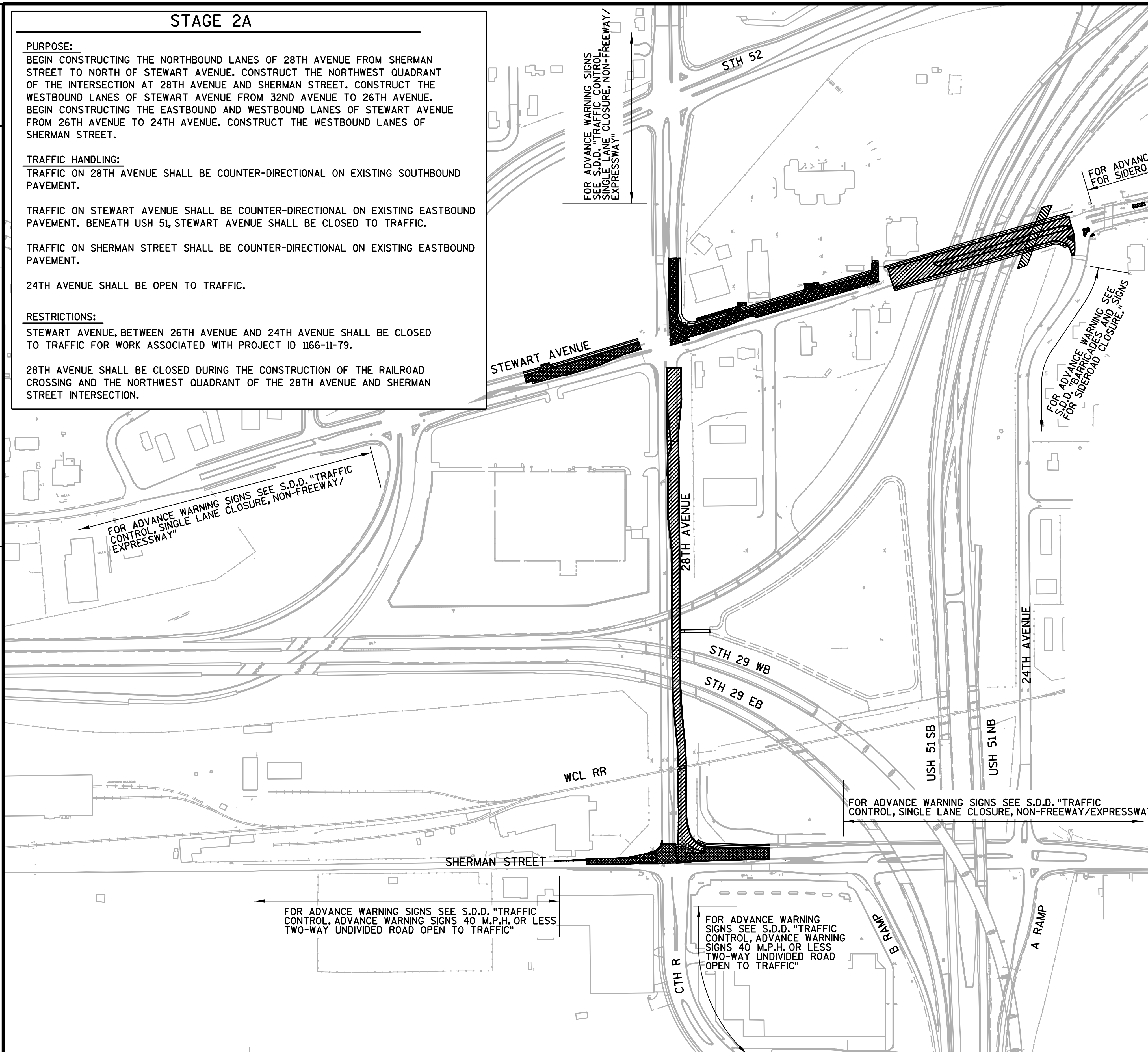
TRAFFIC ON STEWART AVENUE SHALL BE COUNTER-DIRECTIONAL ON EXISTING EASTBOUND PAVEMENT. BENEATH USH 51, STEWART AVENUE SHALL BE CLOSED TO TRAFFIC.

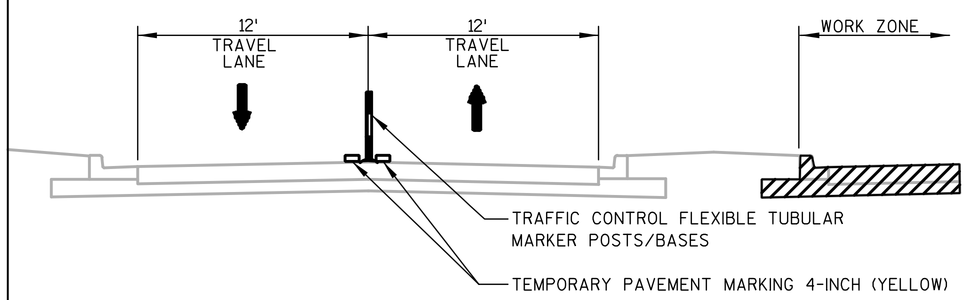
TRAFFIC ON SHERMAN STREET SHALL BE COUNTER-DIRECTIONAL ON EXISTING EASTBOUND PAVEMENT.

24TH AVENUE SHALL BE OPEN TO TRAFFIC.

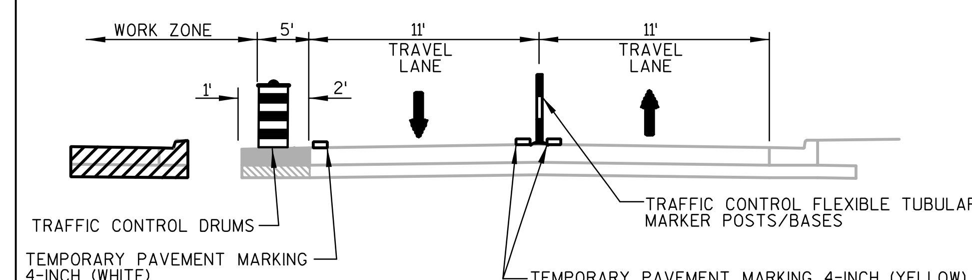
RESTRICTIONS:
STEWART AVENUE, BETWEEN 26TH AVENUE AND 24TH AVENUE SHALL BE CLOSED TO TRAFFIC FOR WORK ASSOCIATED WITH PROJECT ID 1166-11-79.

28TH AVENUE SHALL BE CLOSED DURING THE CONSTRUCTION OF THE RAILROAD CROSSING AND THE NORTHWEST QUADRANT OF THE 28TH AVENUE AND SHERMAN STREET INTERSECTION.

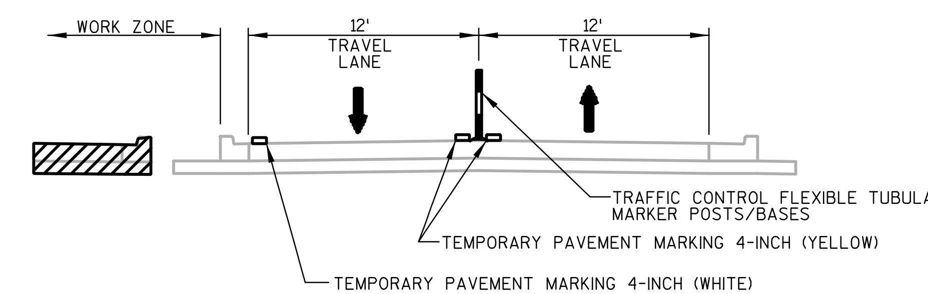




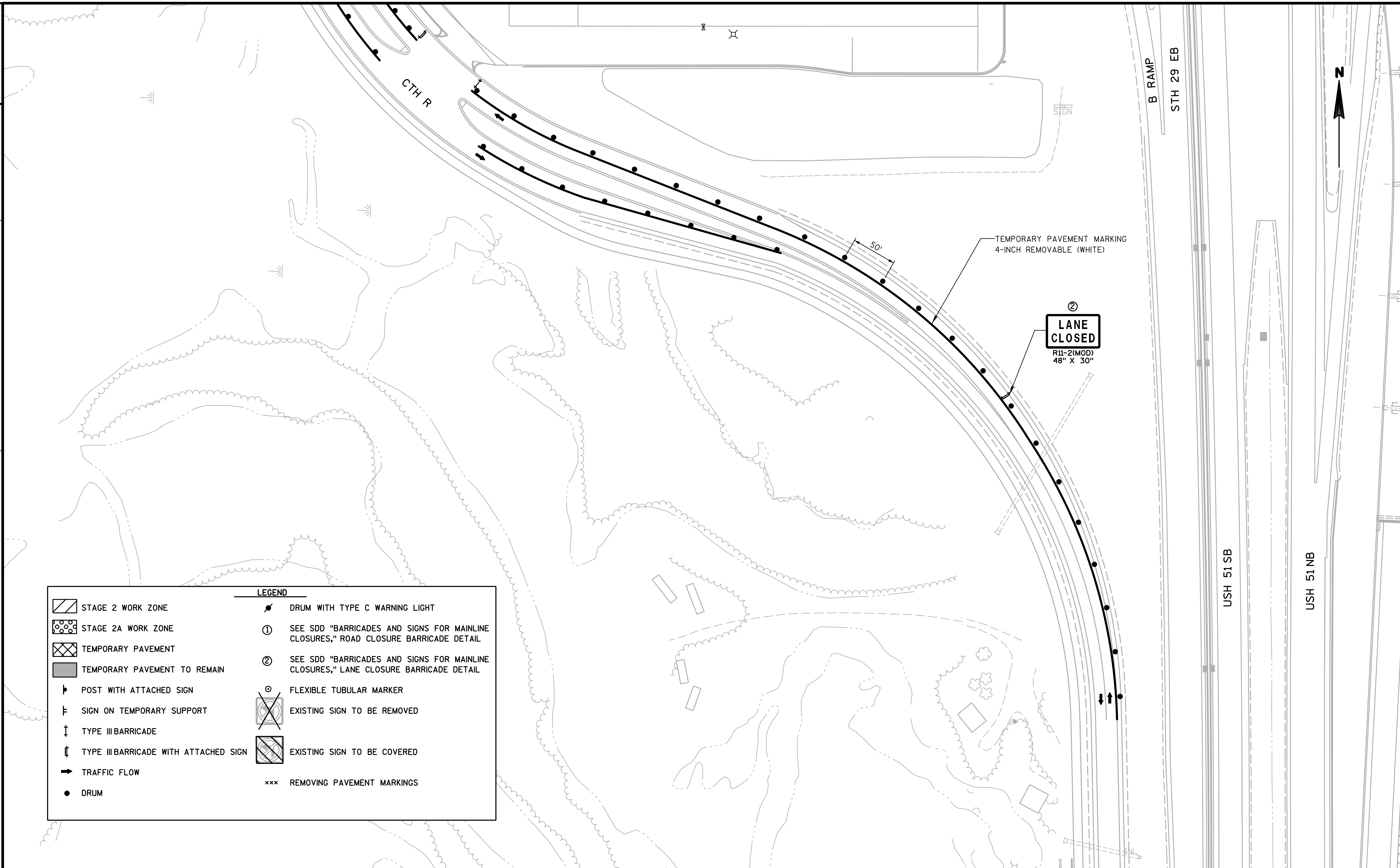
STAGE 2A - 28TH AVENUE



STAGE 2A - STEWART AVENUE

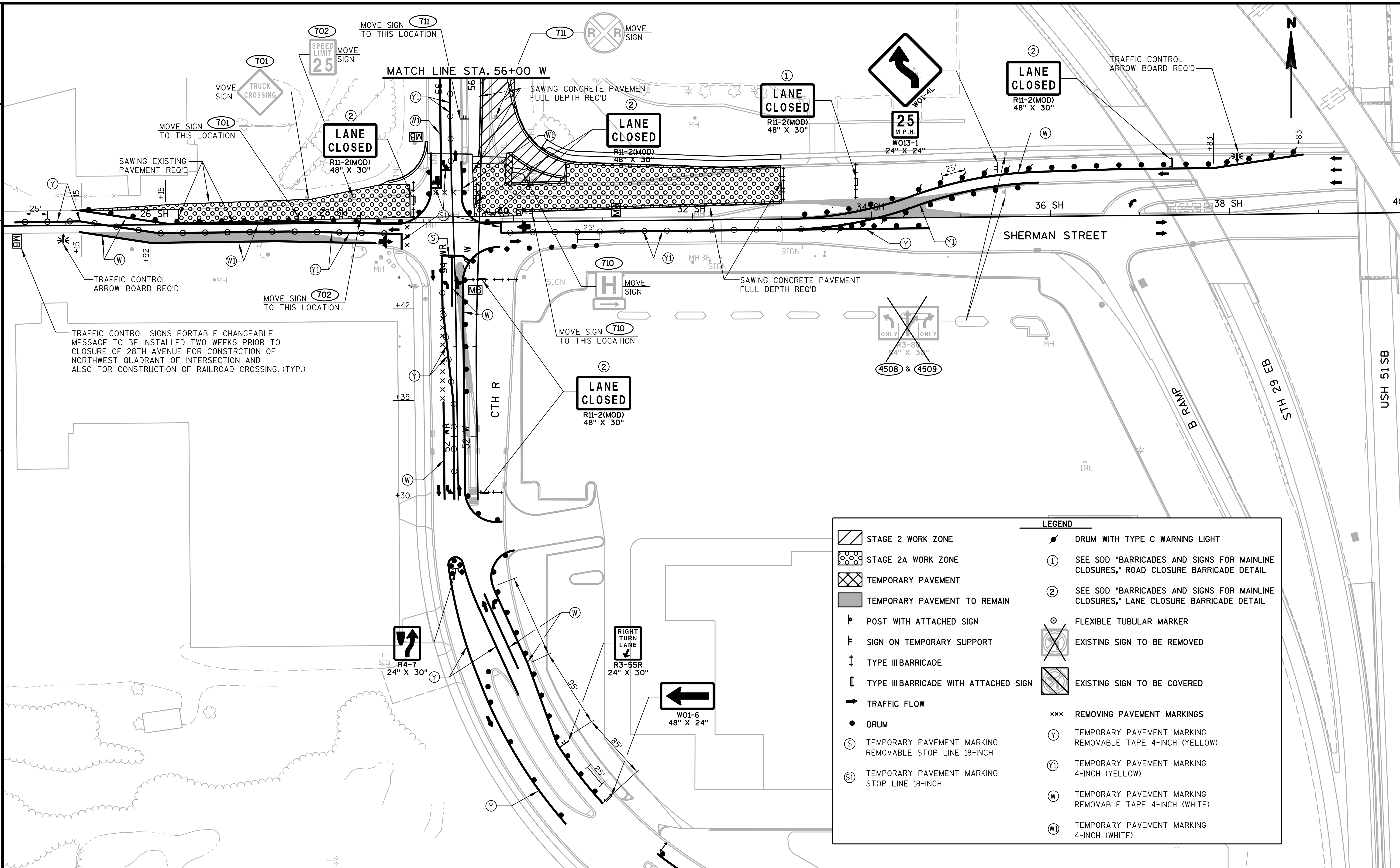


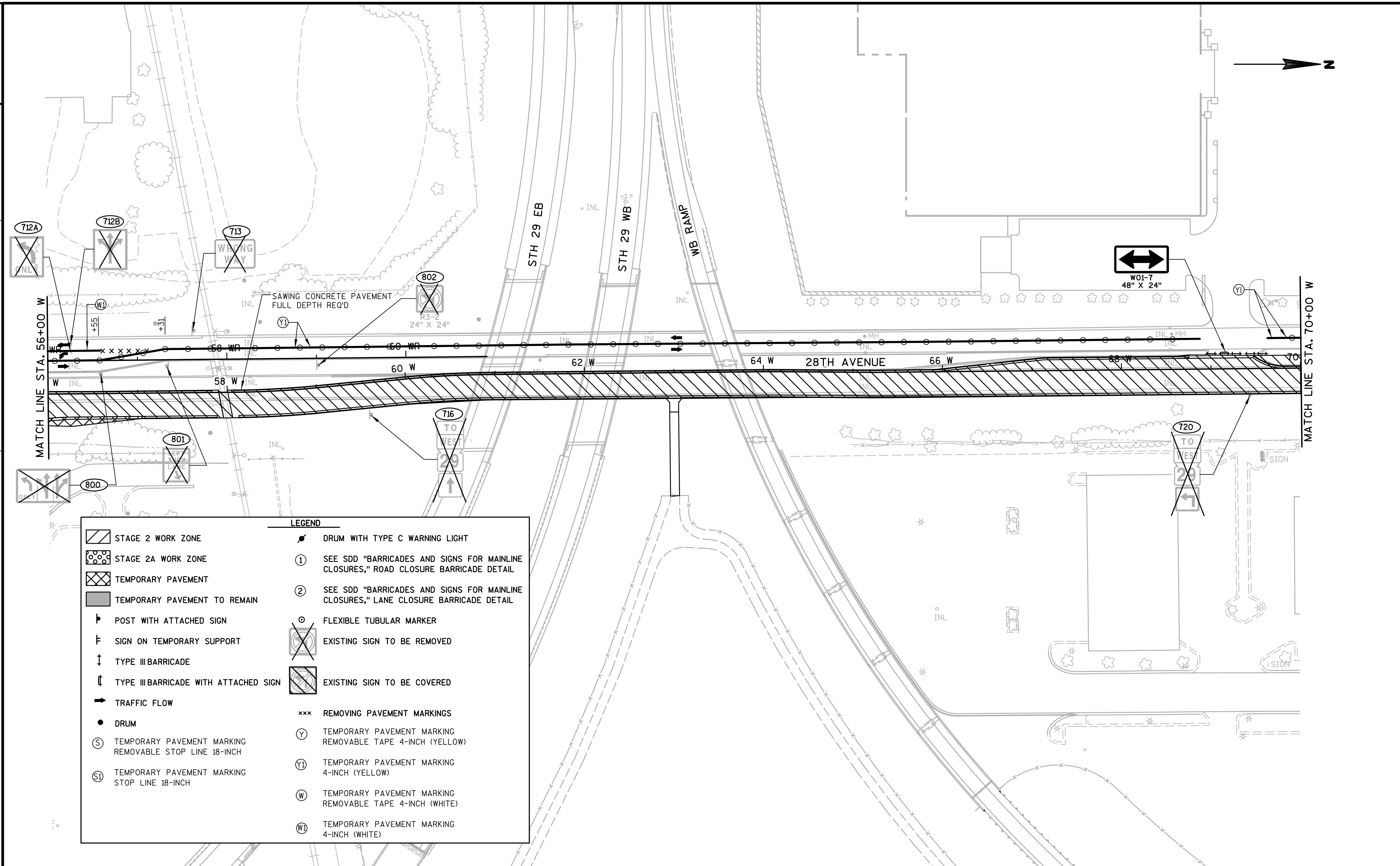
STAGE 2A - SHERMAN STREET



2

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2A	SHEET 117	E

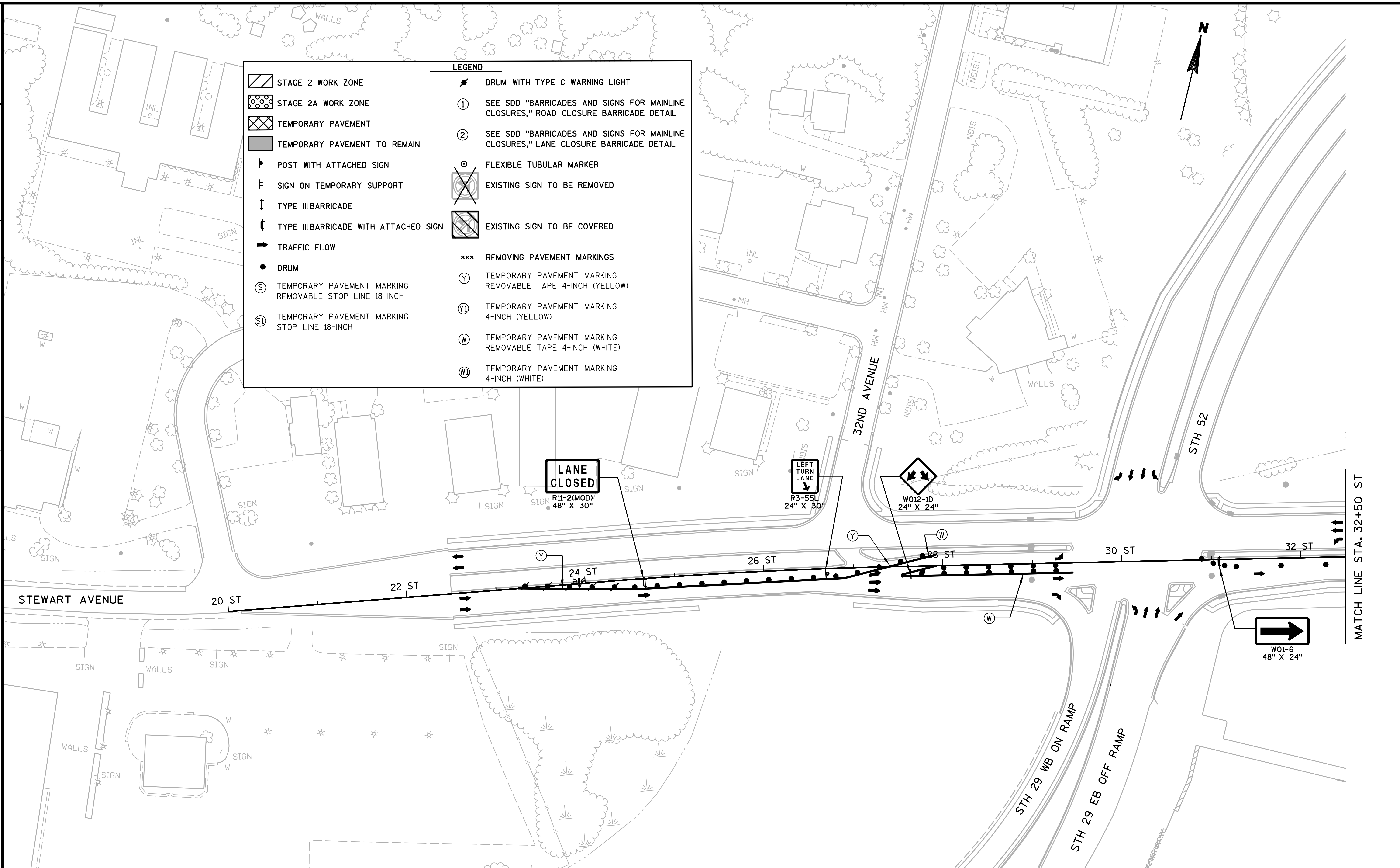

2
2
N
MATCH LINE STA. 56+00 W
MOVE SIGN 711 TO THIS LOCATION
711 MOVE SIGN
702 SPEED LIMIT 25 MOVE SIGN
701 MOVE SIGN TRUCK CROSSING
MOVE SIGN 701 TO THIS LOCATION
SAWING CONCRETE PAVEMENT FULL DEPTH REQ'D
SAWING EXISTING PAVEMENT REQ'D
② LANE CLOSED R11-2(MOD) 48" X 30"
① LANE CLOSED R11-2(MOD) 48" X 30"
W01-4L
25 M.P.H. W013-1 24" X 24"
TRAFFIC CONTROL ARROW BOARD REQ'D
26 SH
28 SH
30 SH
32 SH
34 SH
36 SH
38 SH
40
SHERMAN STREET
25'
MOVE SIGN 702 TO THIS LOCATION
710 MOVE SIGN
MOVE SIGN 710 TO THIS LOCATION
SAWING CONCRETE PAVEMENT FULL DEPTH REQ'D
R3-8b 24" X 30"
4508 & 4509
TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE TO BE INSTALLED TWO WEEKS PRIOR TO CLOSURE OF 28TH AVENUE FOR CONSTRCTION OF NORTHWEST QUADRANT OF INTERSECTION AND ALSO FOR CONSTRUCTION OF RAILROAD CROSSING. (TYP.)
CTH R
B RAMP
STH 29 EB
USH 51 SB
R4-7 24" X 30"
RIGHT TURN LANE R3-55R 24" X 30"
W01-6 48" X 24"
95'
85'
LEGEND
STAGE 2 WORK ZONE
STAGE 2A WORK ZONE
TEMPORARY PAVEMENT
TEMPORARY PAVEMENT TO REMAIN
POST WITH ATTACHED SIGN
SIGN ON TEMPORARY SUPPORT
TYPE III BARRICADE
TYPE III BARRICADE WITH ATTACHED SIGN
TRAFFIC FLOW
DRUM
Ⓢ TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH
Ⓢ1 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
DRUM WITH TYPE C WARNING LIGHT
① SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
② SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
FLEXIBLE TUBULAR MARKER
EXISTING SIGN TO BE REMOVED
EXISTING SIGN TO BE COVERED
××× REMOVING PAVEMENT MARKINGS
Ⓨ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
Ⓨ1 TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
Ⓦ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
Ⓦ1 TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)



LEGEND

- STAGE 2 WORK ZONE
- STAGE 2A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- POST WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC FLOW
- DRUM
- (S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH
- (S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- DRUM WITH TYPE C WARNING LIGHT
- (1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
- (2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
- FLEXIBLE TUBULAR MARKER
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED
- ××× REMOVING PAVEMENT MARKINGS
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2A	SHEET 119	E



PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2A	SHEET 120	E

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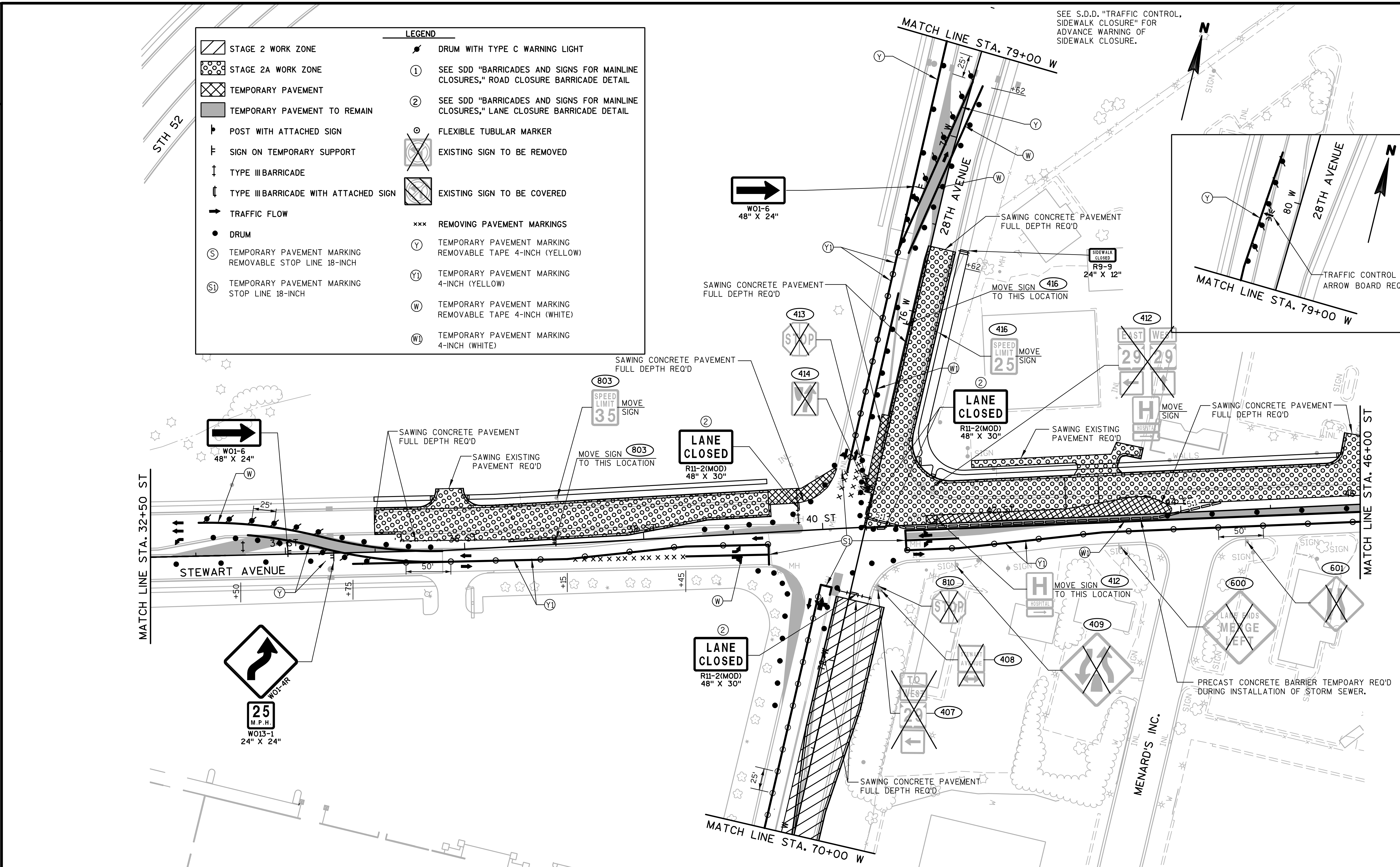
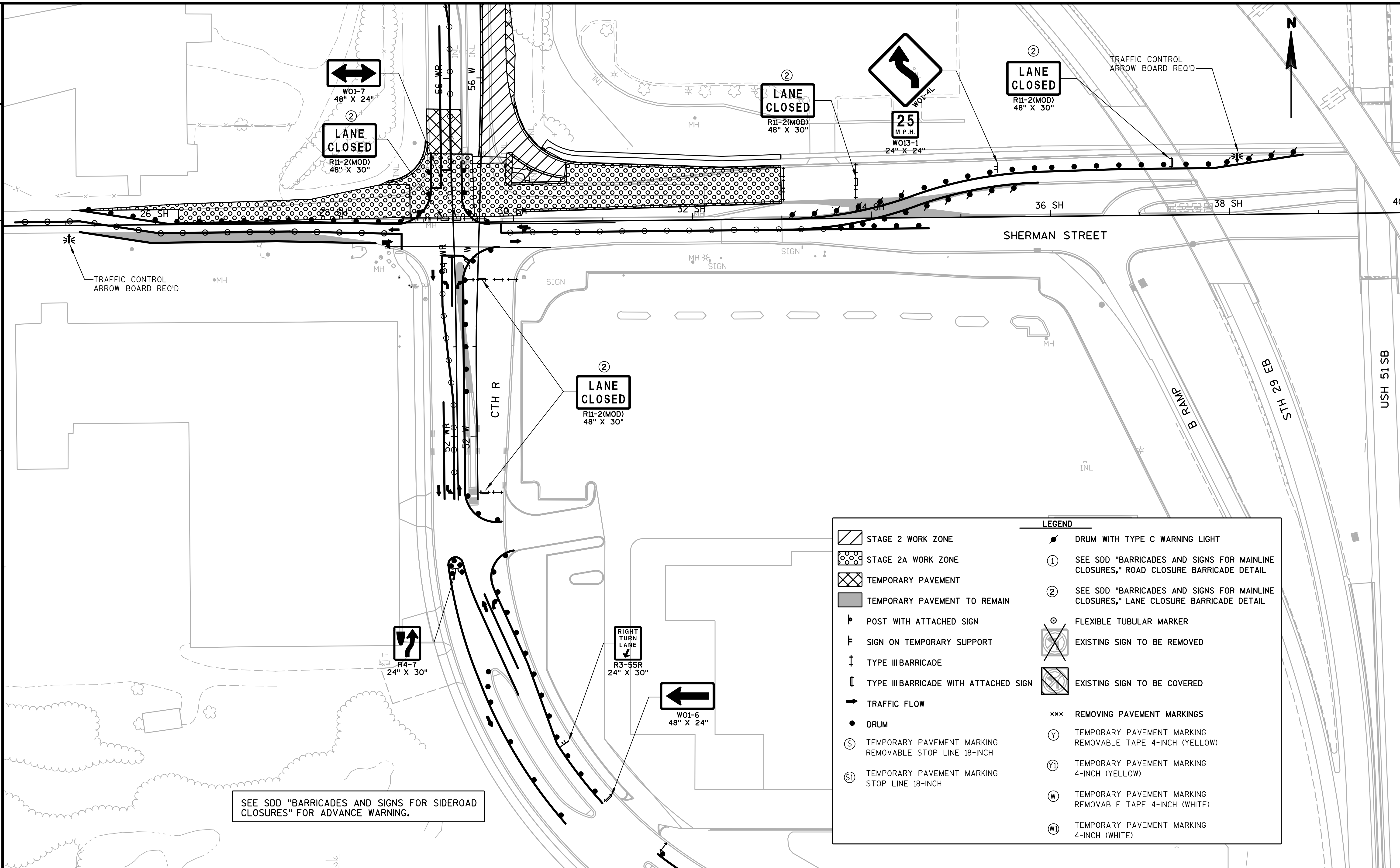


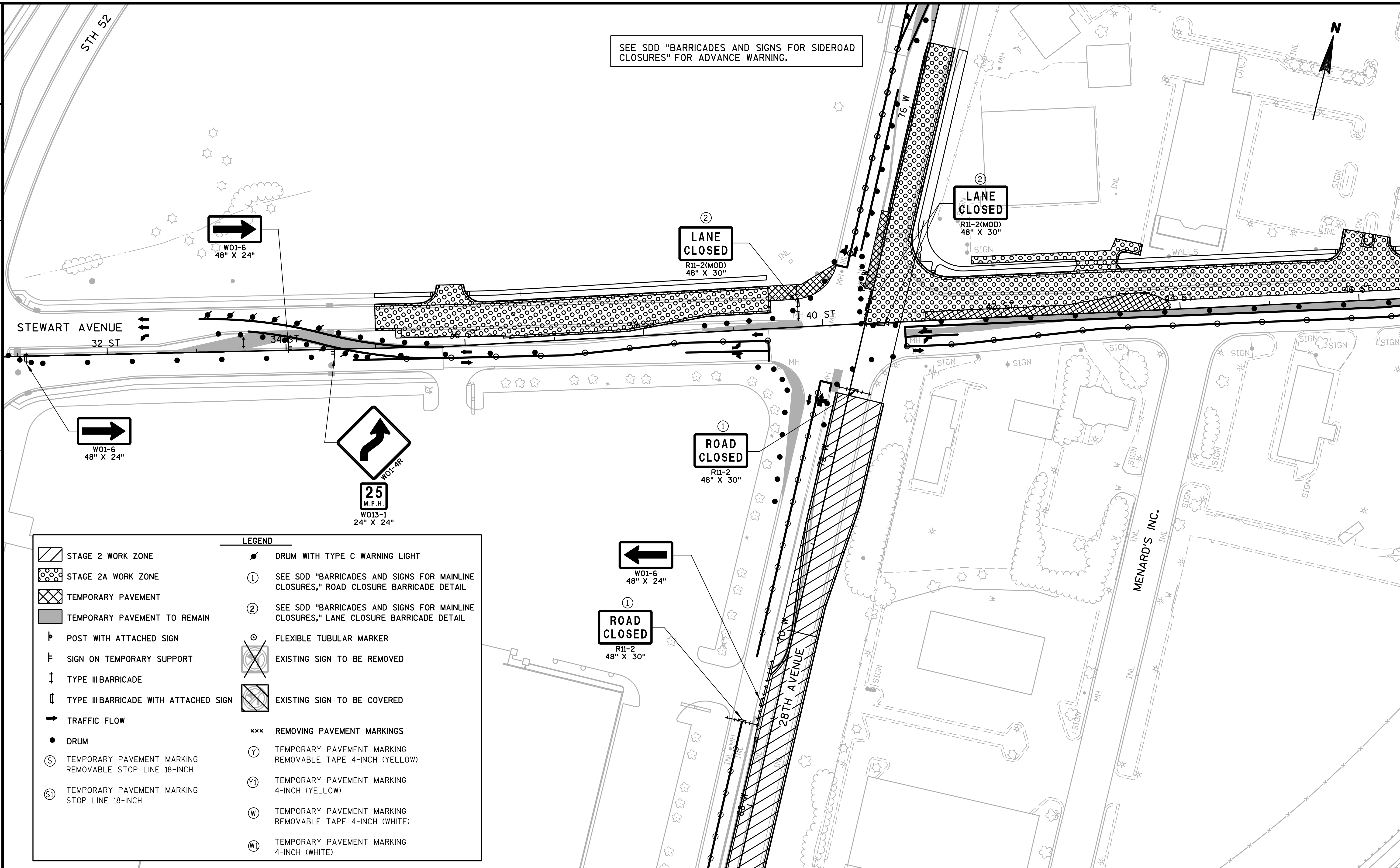
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2A	SHEET 121	E



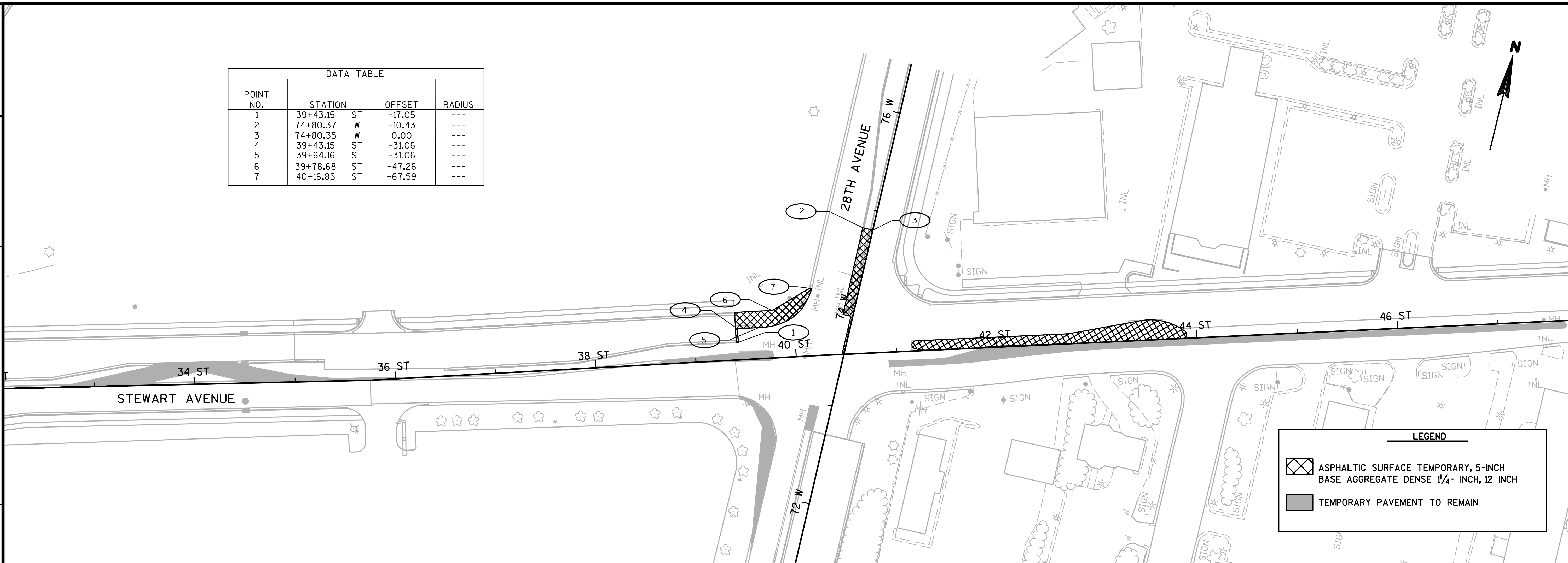
LEGEND

STAGE 2 WORK ZONE	DRUM WITH TYPE C WARNING LIGHT
STAGE 2A WORK ZONE	(1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
TEMPORARY PAVEMENT	(2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
TEMPORARY PAVEMENT TO REMAIN	FLEXIBLE TUBULAR MARKER
POST WITH ATTACHED SIGN	EXISTING SIGN TO BE REMOVED
SIGN ON TEMPORARY SUPPORT	EXISTING SIGN TO BE COVERED
TYPE III BARRICADE	REMOVING PAVEMENT MARKINGS
TYPE III BARRICADE WITH ATTACHED SIGN	(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC FLOW	(Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
DRUM	(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
(S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH	(W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
(S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2A, 28TH AVE. CLOSURE	SHEET 123	E



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2A, 28TH AVE. CLOSURE	SHEET 124	E

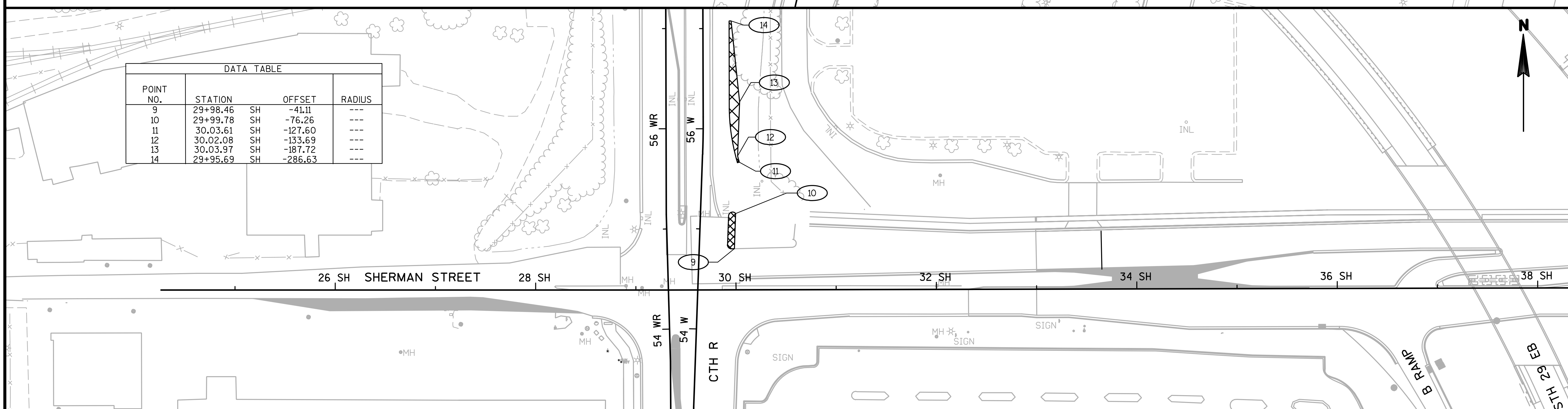


DATA TABLE

POINT NO.	STATION		OFFSET	RADIUS
1	39+43.15	ST	-17.05	---
2	74+80.37	W	-10.43	---
3	74+80.35	W	0.00	---
4	39+43.15	ST	-31.06	---
5	39+64.16	ST	-31.06	---
6	39+78.68	ST	-47.26	---
7	40+16.85	ST	-67.59	---

LEGEND

- ASPHALTIC SURFACE TEMPORARY, 5-INCH BASE AGGREGATE DENSE 1¼- INCH, 12 INCH
- TEMPORARY PAVEMENT TO REMAIN



DATA TABLE

POINT NO.	STATION		OFFSET	RADIUS
9	29+98.46	SH	-41.11	---
10	29+99.78	SH	-76.26	---
11	30.03.61	SH	-127.60	---
12	30.02.08	SH	-133.69	---
13	30.03.97	SH	-187.72	---
14	29+95.69	SH	-286.63	---

STAGE 2B

PURPOSE:

COMPLETE CONSTRUCTING THE NORTHBOUND LANES OF 28TH AVENUE FROM SHERMAN STREET TO STEWART AVENUE. CONSTRUCT THE EASTBOUND LANES OF STEWART AVENUE FROM 32ND AVENUE TO 26TH AVENUE. COMPLETE CONSTRUCTING THE EASTBOUND AND WESTBOUND LANES OF STEWART AVENUE FROM 26TH AVENUE TO 24TH AVENUE. CONSTRUCT THE EASTBOUND LANES OF SHERMAN STREET, EAST OF 28TH AVENUE.

TRAFFIC HANDLING:

TRAFFIC ON 28TH AVENUE SHALL REMAIN THE SAME AS IS IN STAGE 2A.

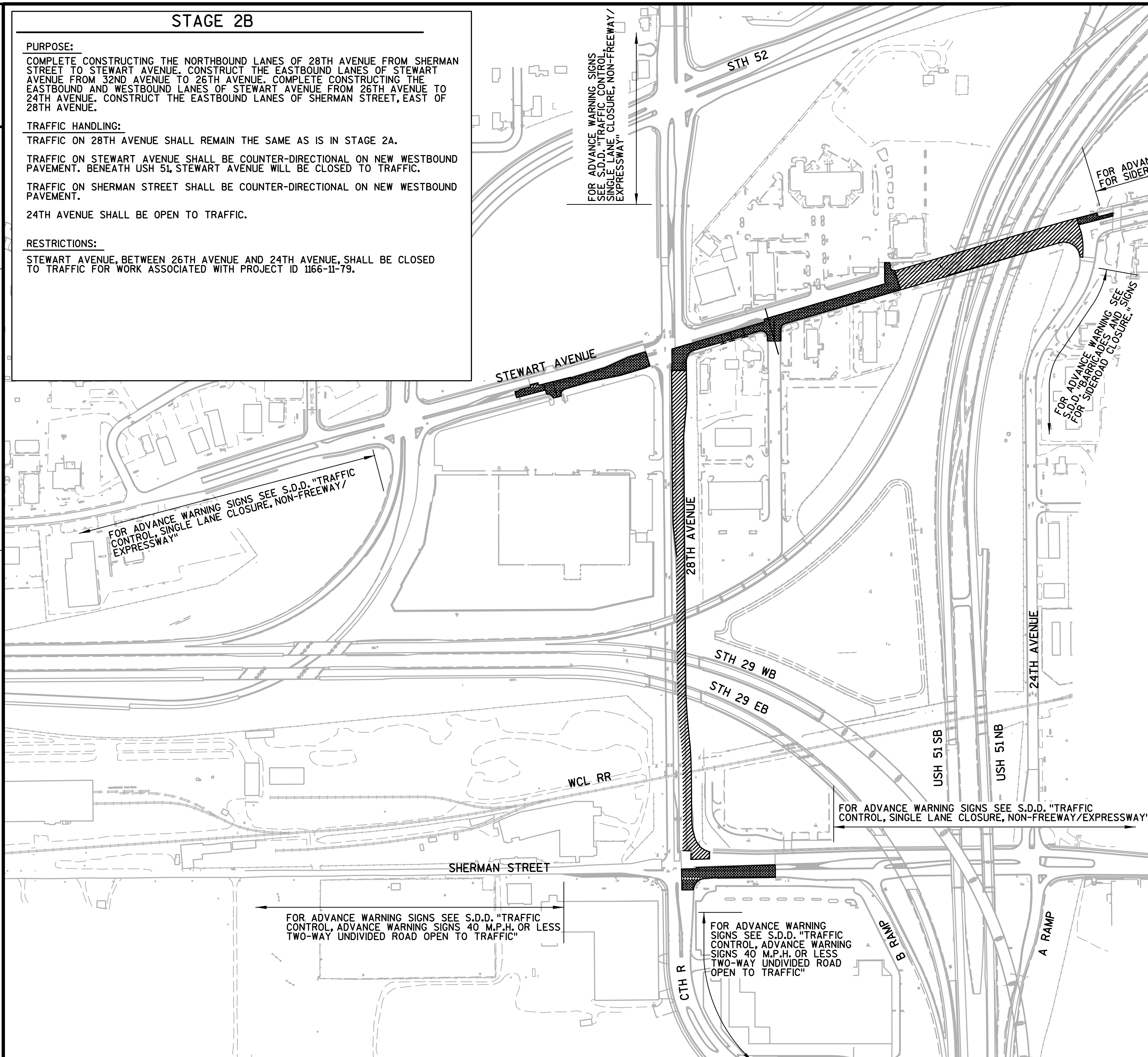
TRAFFIC ON STEWART AVENUE SHALL BE COUNTER-DIRECTIONAL ON NEW WESTBOUND PAVEMENT. BENEATH USH 51, STEWART AVENUE WILL BE CLOSED TO TRAFFIC.

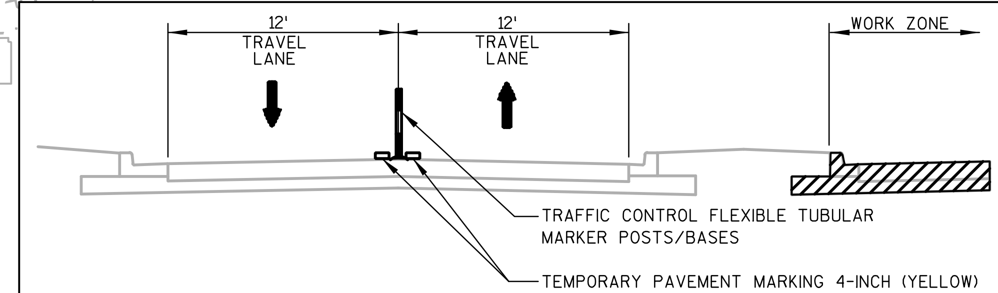
TRAFFIC ON SHERMAN STREET SHALL BE COUNTER-DIRECTIONAL ON NEW WESTBOUND PAVEMENT.

24TH AVENUE SHALL BE OPEN TO TRAFFIC.

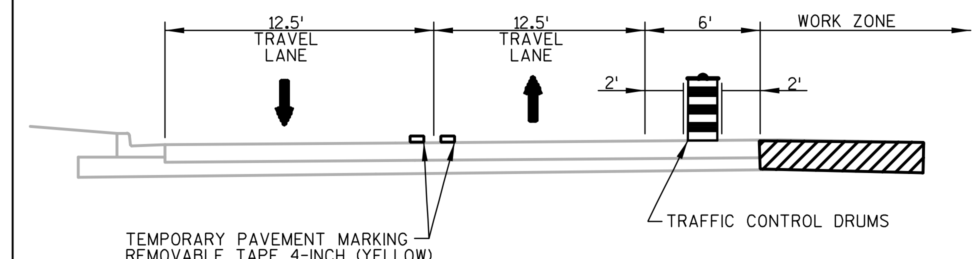
RESTRICTIONS:

STEWART AVENUE, BETWEEN 26TH AVENUE AND 24TH AVENUE, SHALL BE CLOSED TO TRAFFIC FOR WORK ASSOCIATED WITH PROJECT ID 1166-11-79.

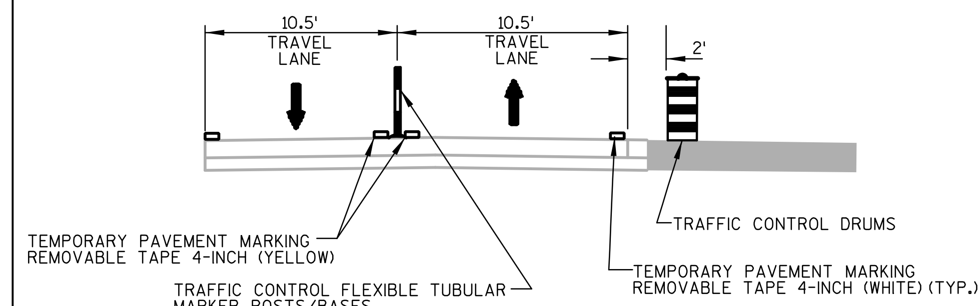




STAGE 2B - 28TH AVENUE

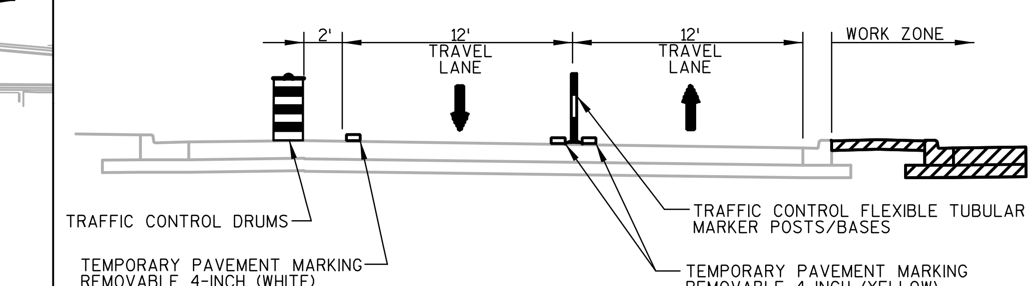


STAGE 2B - STEWART AVENUE



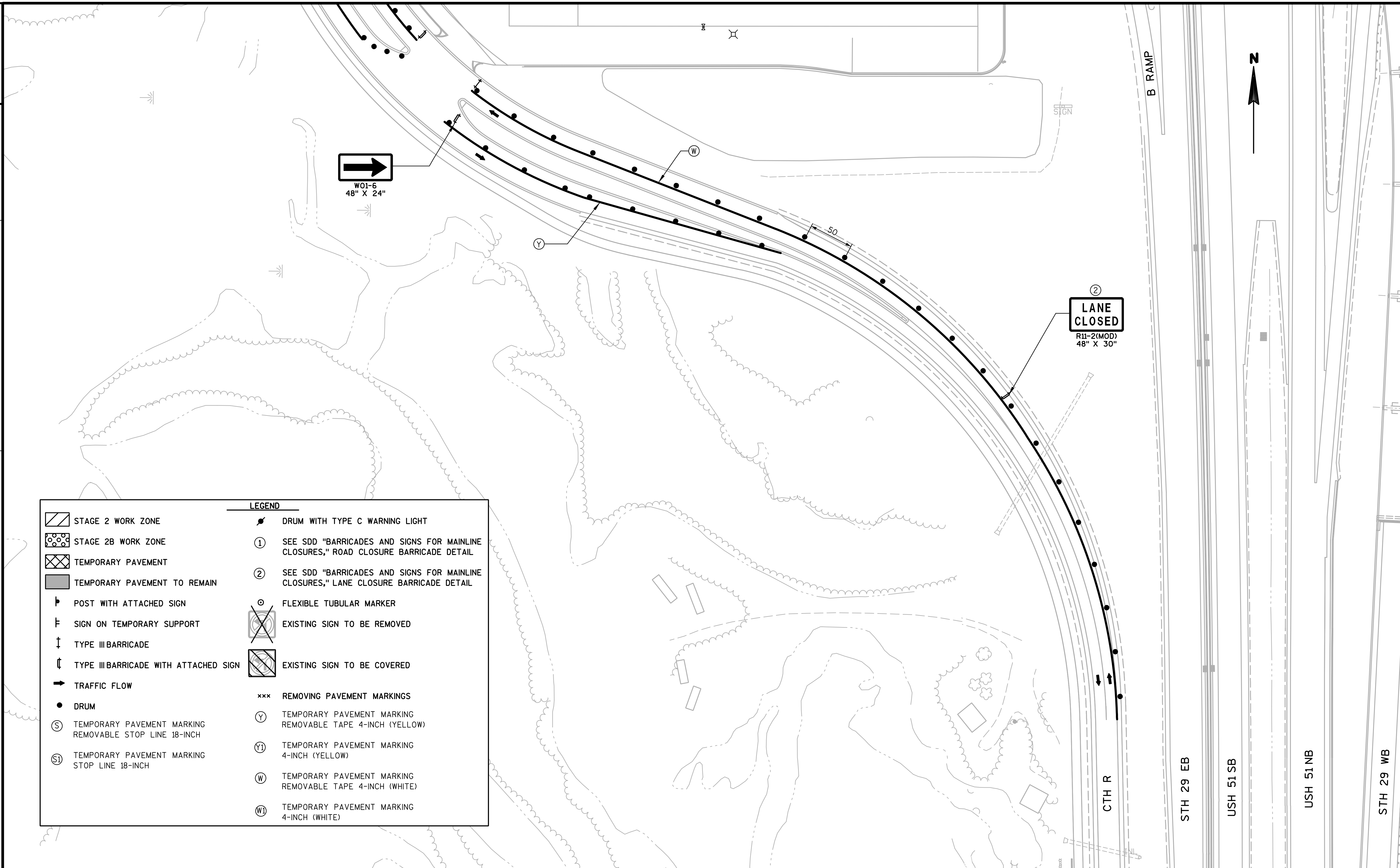
STAGE 2B - SHERMAN STREET

WEST OF 28TH AVENUE



STAGE 2B - SHERMAN STREET

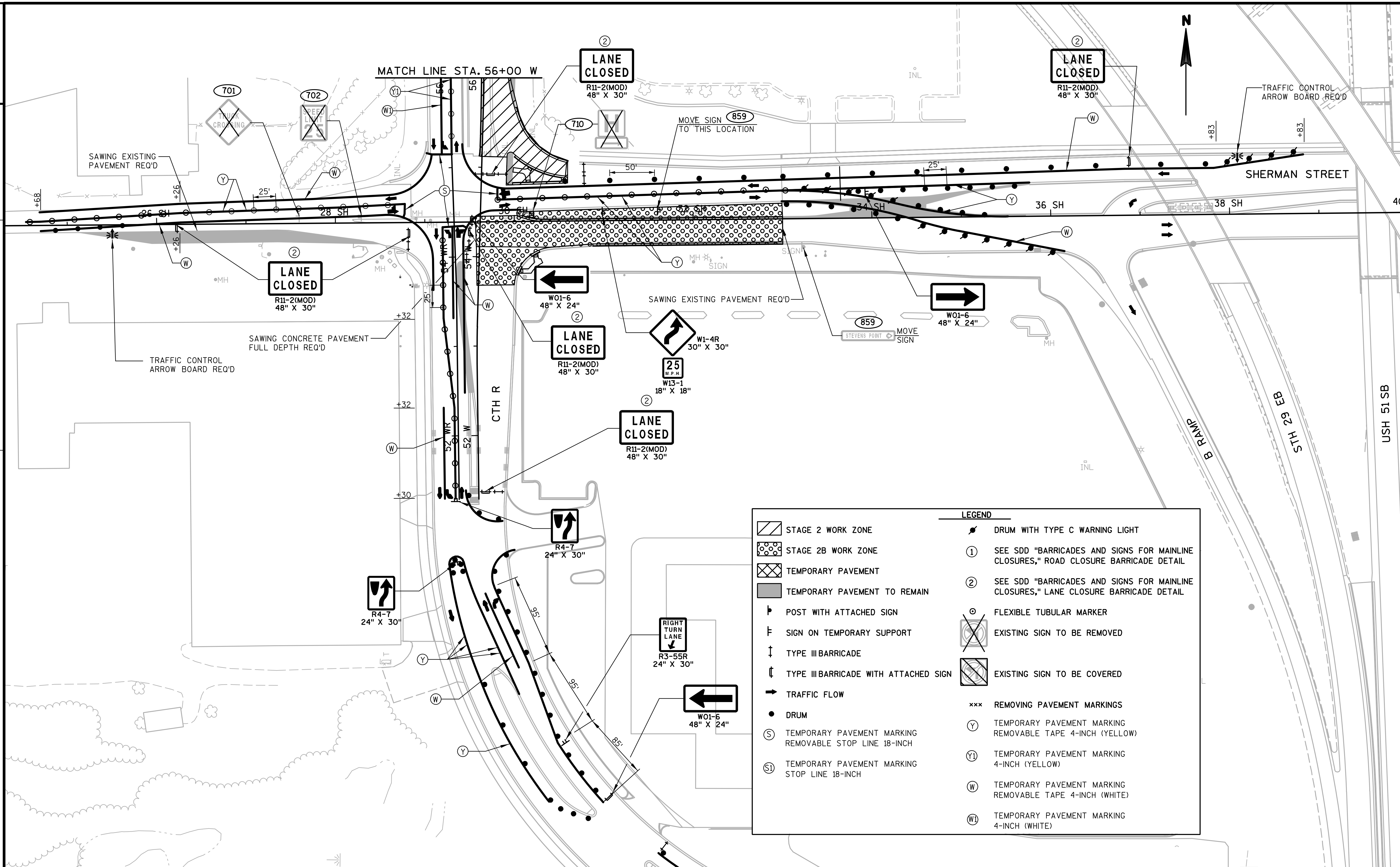
EAST OF 28TH AVENUE



LEGEND

STAGE 2 WORK ZONE	DRUM WITH TYPE C WARNING LIGHT
STAGE 2B WORK ZONE	(1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
TEMPORARY PAVEMENT	(2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
TEMPORARY PAVEMENT TO REMAIN	FLEXIBLE TUBULAR MARKER
POST WITH ATTACHED SIGN	EXISTING SIGN TO BE REMOVED
SIGN ON TEMPORARY SUPPORT	EXISTING SIGN TO BE COVERED
TYPE III BARRICADE	××× REMOVING PAVEMENT MARKINGS
TYPE III BARRICADE WITH ATTACHED SIGN	(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
TRAFFIC FLOW	(Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
DRUM	(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
(S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH	(W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
(S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2B	SHEET 127	E



PROJECT NO: 1166-09-79 | HWY: USH 51/STH 29 | COUNTY: MARATHON | CONSTRUCTION STAGING - STAGE 2B | SHEET 128 | E

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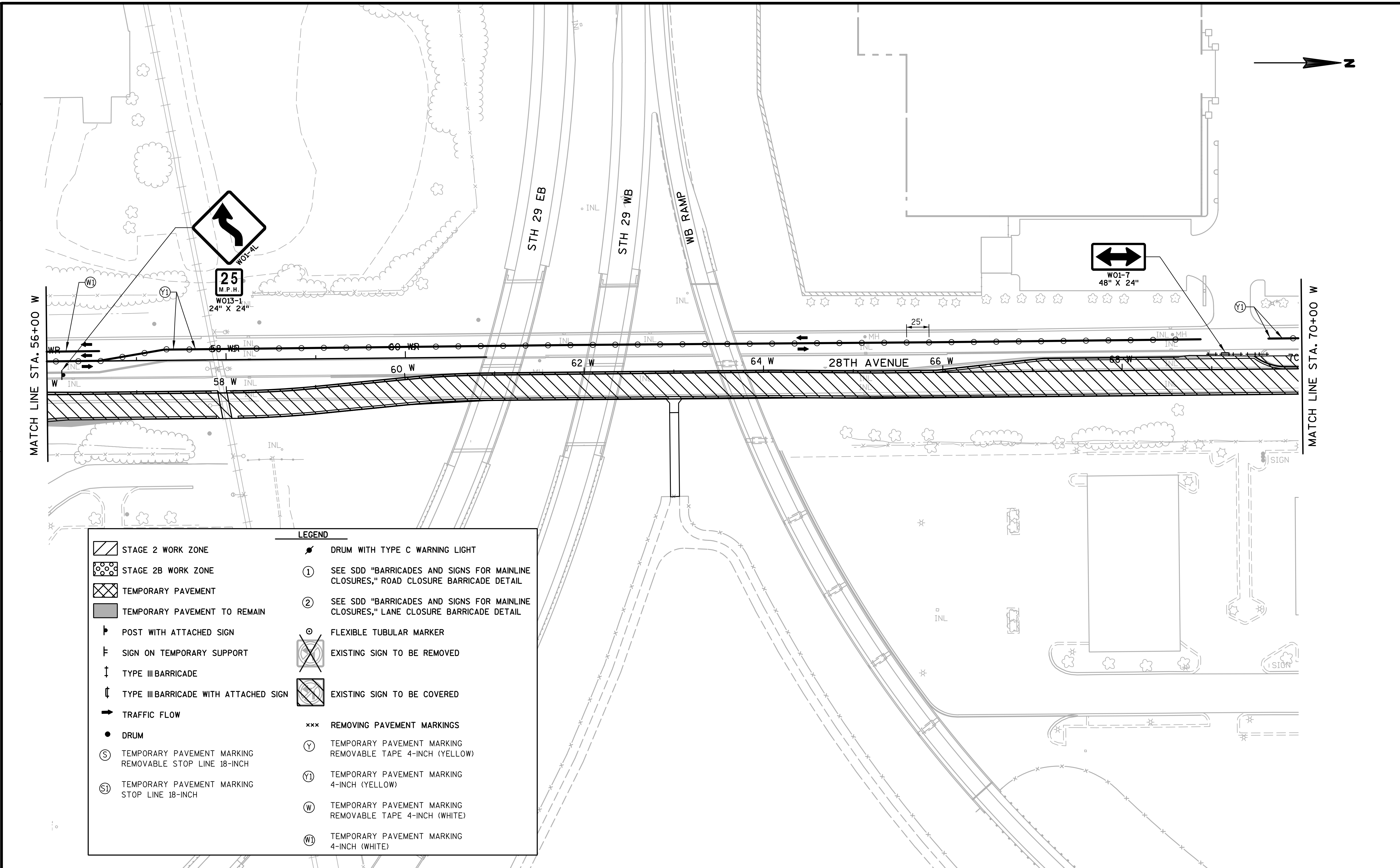
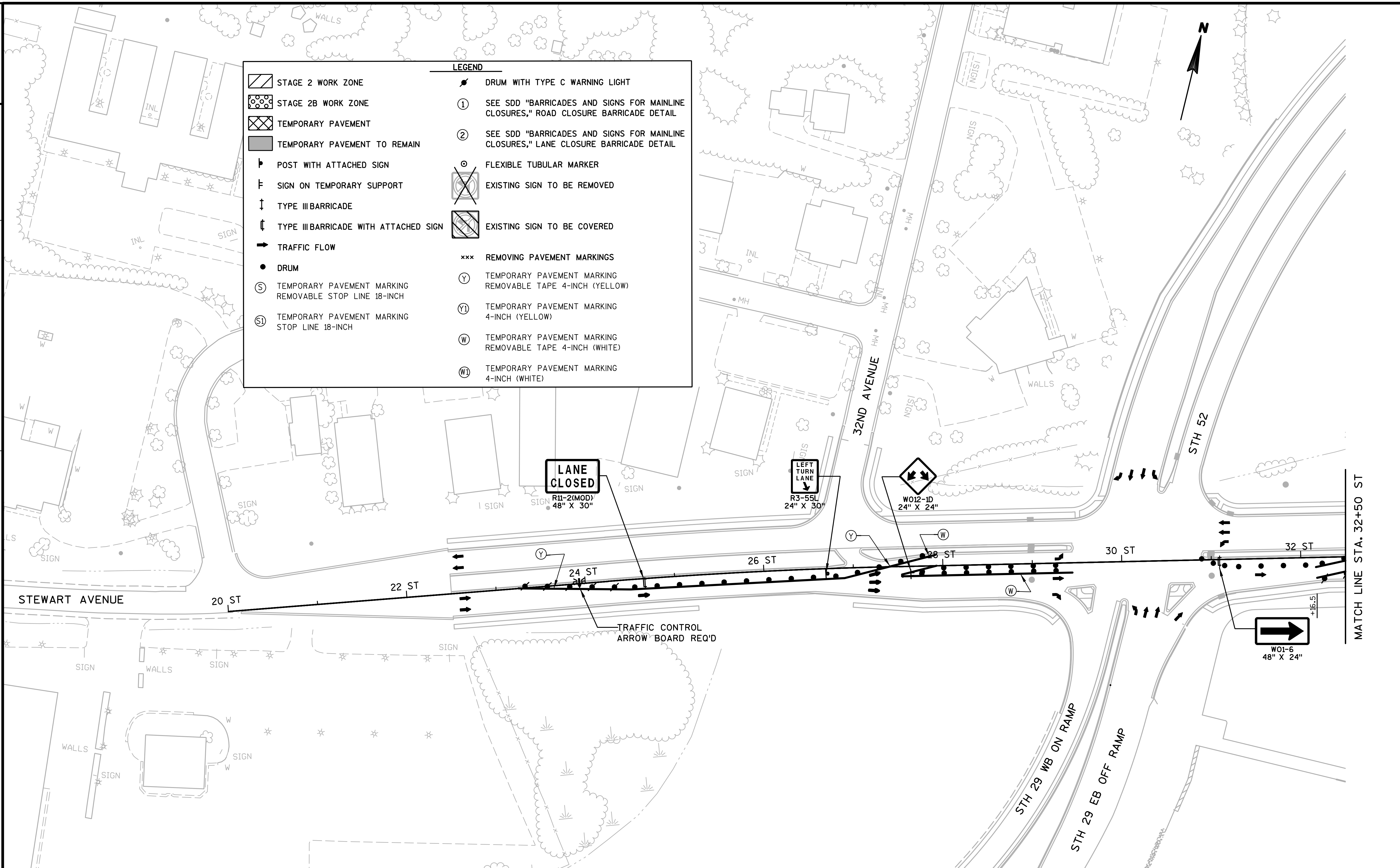


LEGEND

- STAGE 2 WORK ZONE
- STAGE 2B WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- POST WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC FLOW
- DRUM
- (S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH
- (S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- DRUM WITH TYPE C WARNING LIGHT
- (1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
- (2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
- FLEXIBLE TUBULAR MARKER
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED
- xxx REMOVING PAVEMENT MARKINGS
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2B	SHEET 129	E



2

2

PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2B	SHEET 130	E

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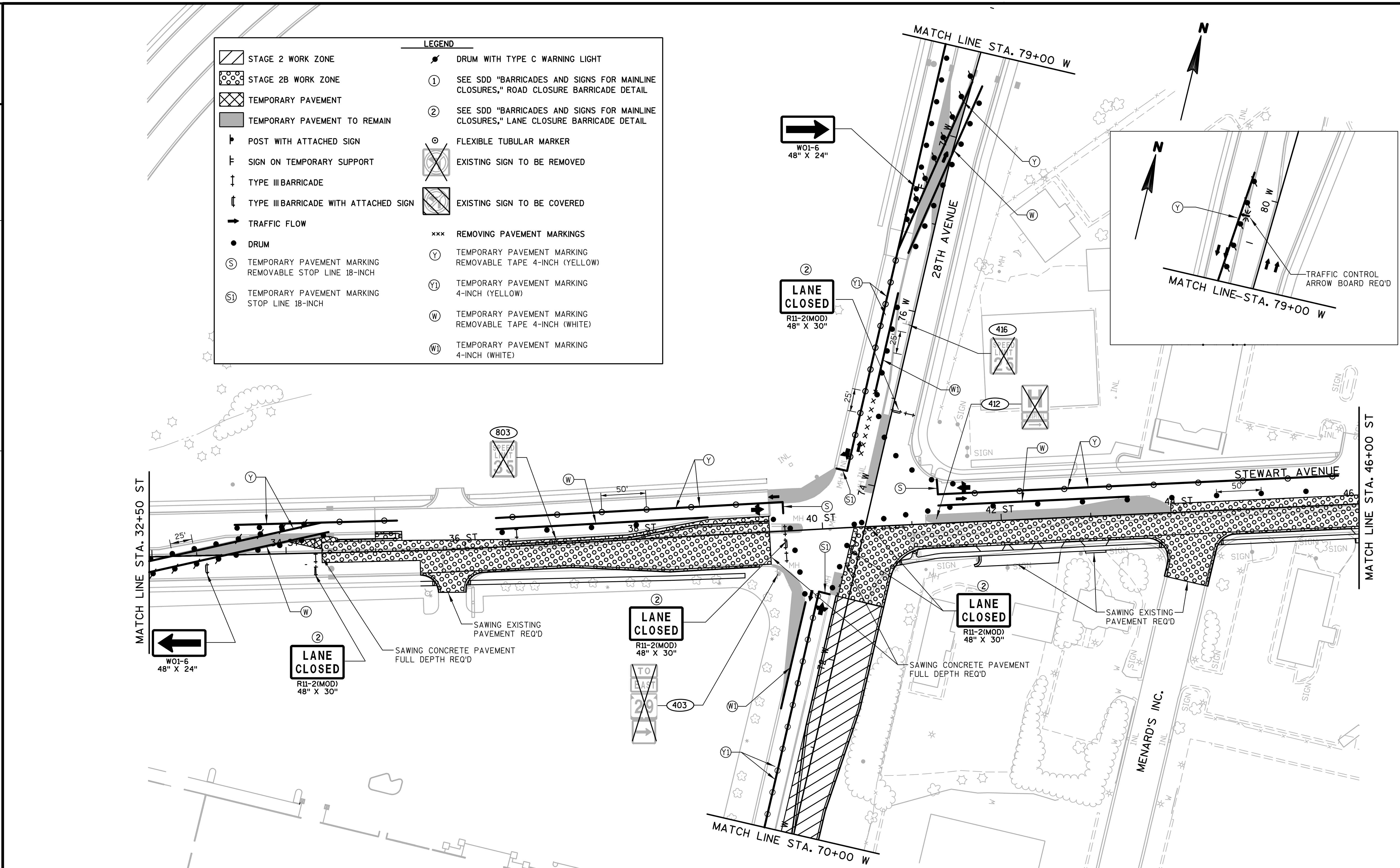

PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2B	SHEET 131	E

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2

STAGE 3A

PURPOSE:
BEGIN CONSTRUCTING THE SOUTHBOUND LANES OF 28TH AVENUE FROM SHERMAN STREET TO NORTH OF STEWART AVENUE. CONSTRUCT THE SOUTHWEST QUADRANT OF THE INTERSECTION AT 28TH AVENUE AND STEWART AVENUE. CONSTRUCT THE EASTBOUND LANES OF SHERMAN STREET WEST OF 28TH AVENUE.

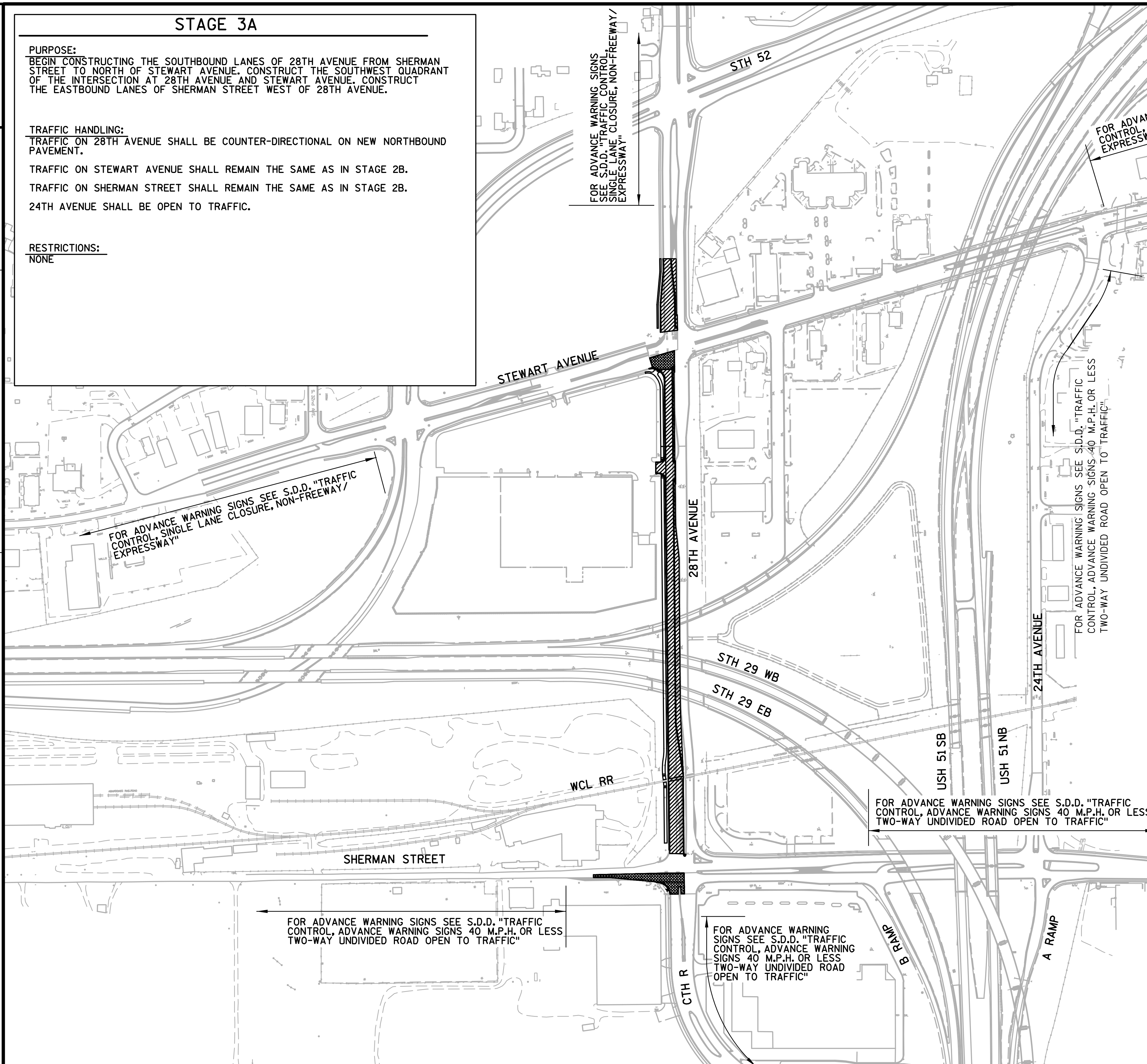
TRAFFIC HANDLING:
TRAFFIC ON 28TH AVENUE SHALL BE COUNTER-DIRECTIONAL ON NEW NORTHBOUND PAVEMENT.

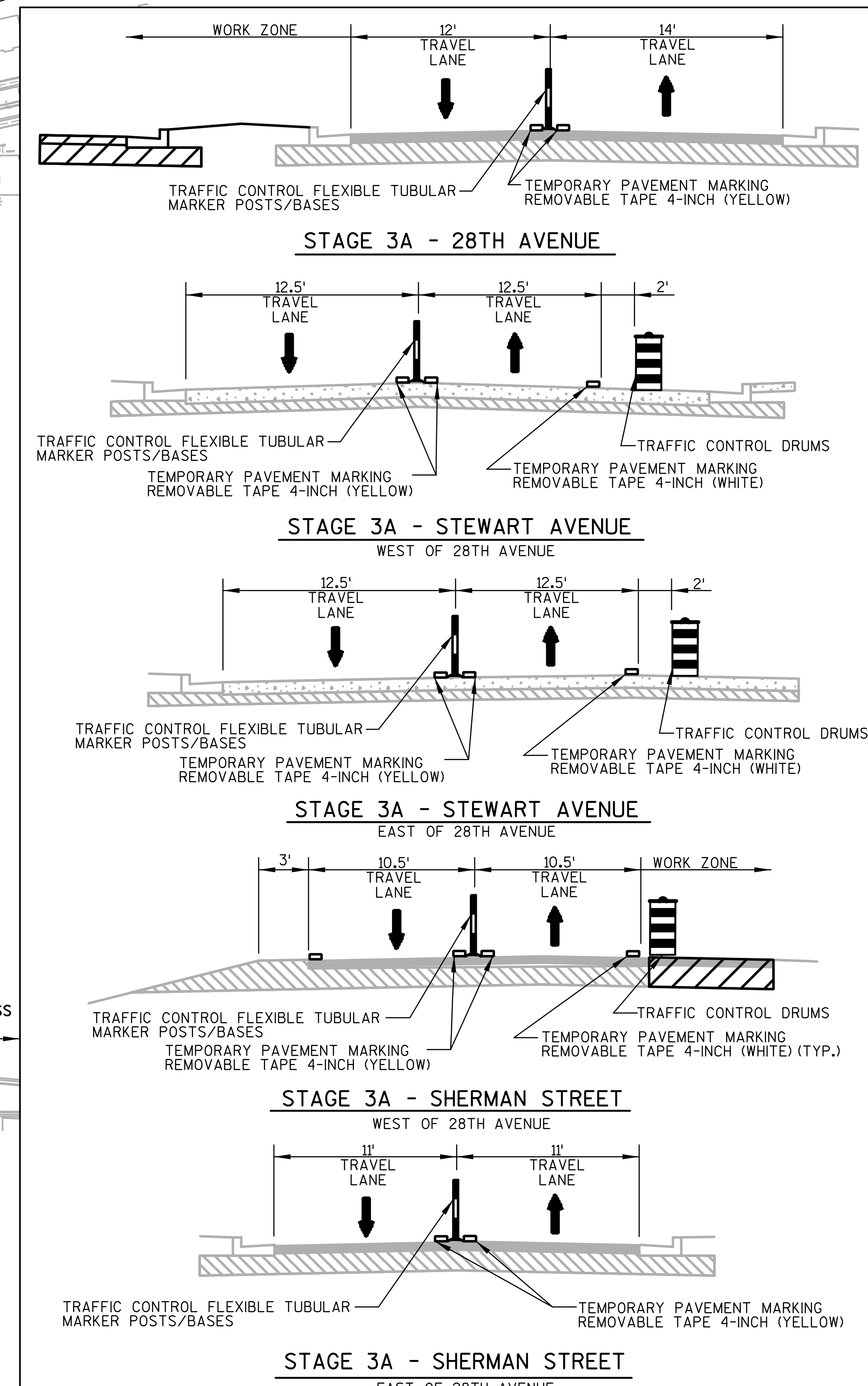
TRAFFIC ON STEWART AVENUE SHALL REMAIN THE SAME AS IN STAGE 2B.

TRAFFIC ON SHERMAN STREET SHALL REMAIN THE SAME AS IN STAGE 2B.

24TH AVENUE SHALL BE OPEN TO TRAFFIC.

RESTRICTIONS:
NONE





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PROJECT NO:1166-09-77/79&6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING OVERVIEW - STAGE 3A	SHEET 133	E

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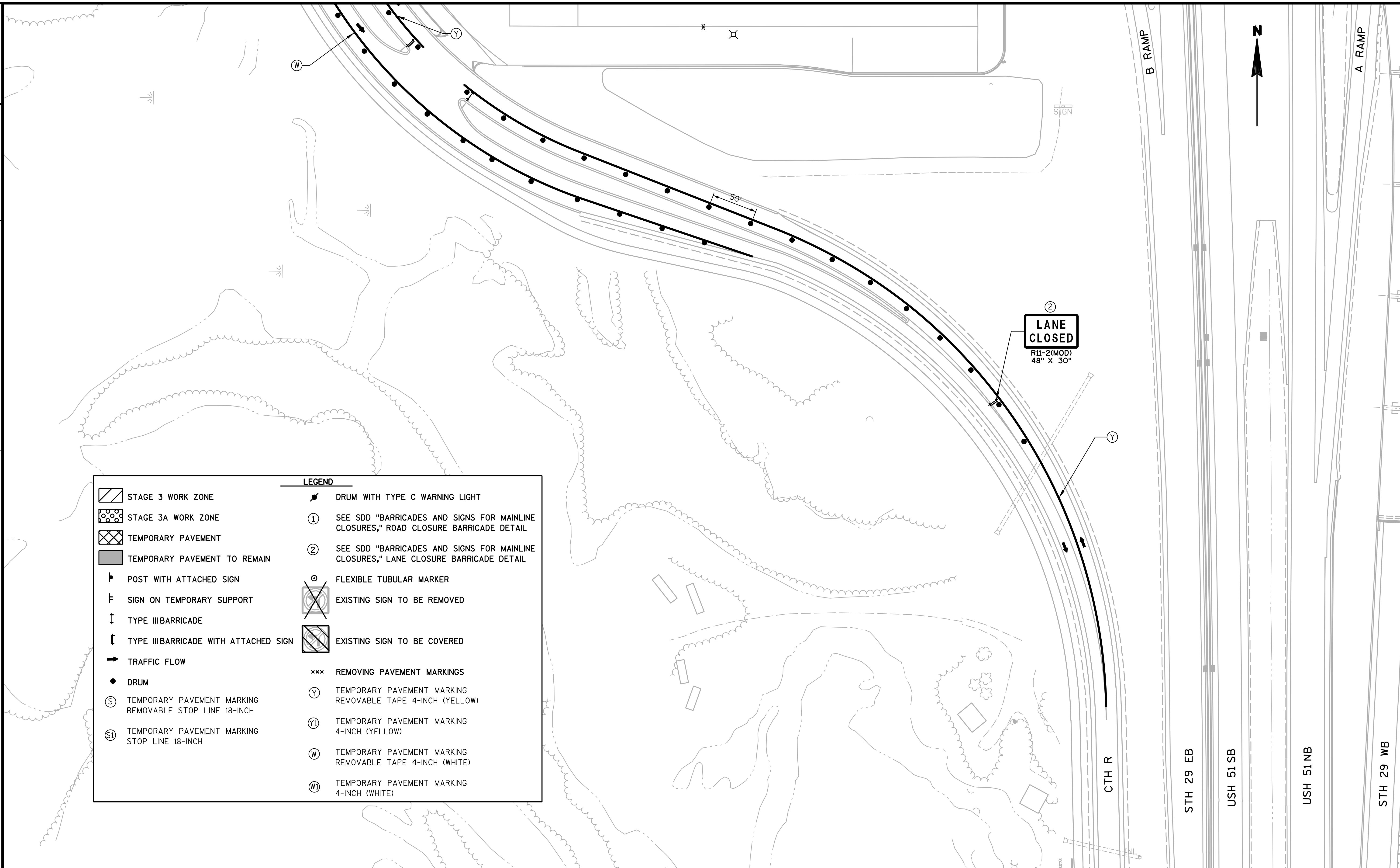
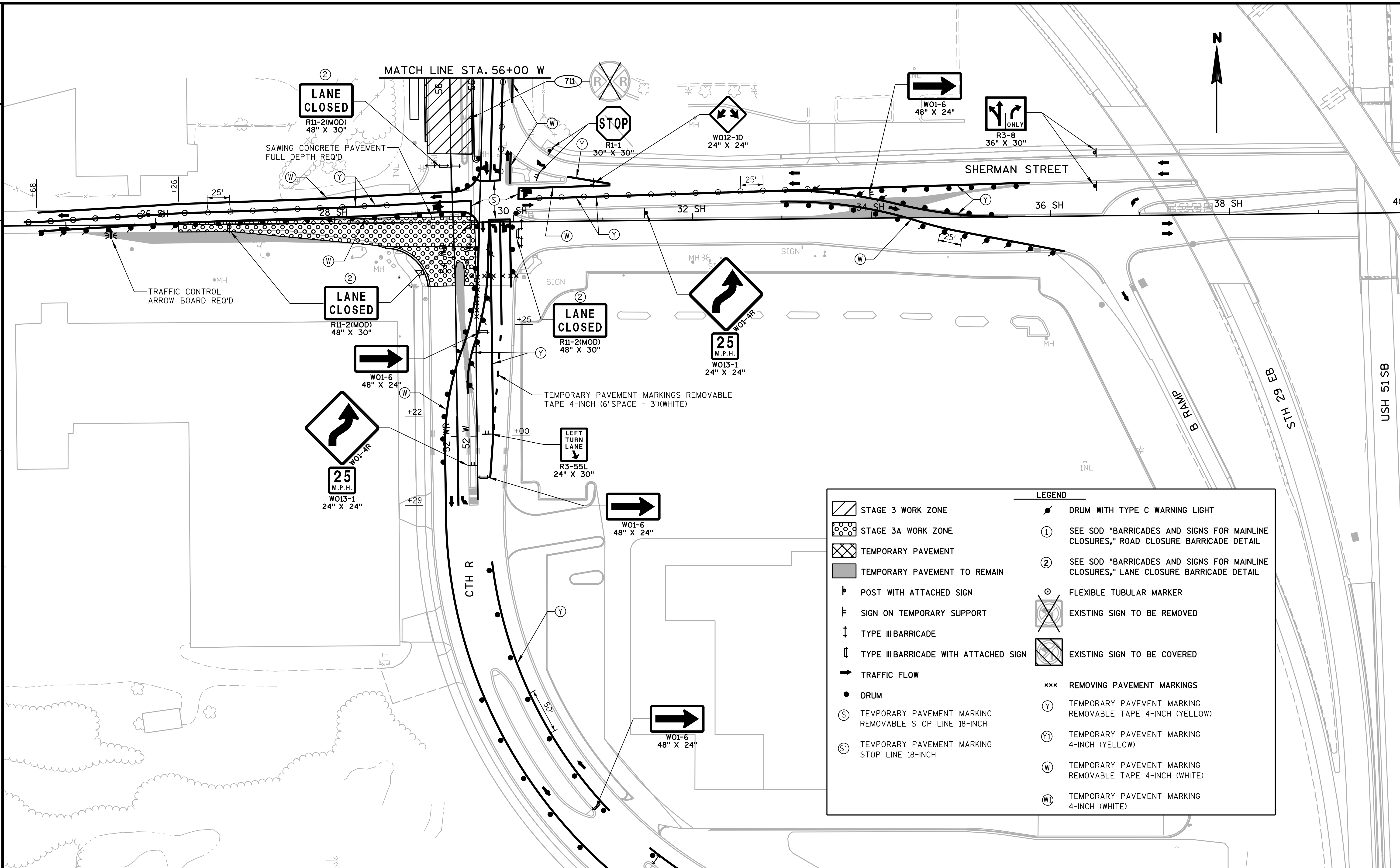


LEGEND

- STAGE 3 WORK ZONE
- STAGE 3A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- POST WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC FLOW
- DRUM
- (S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH
- (S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- DRUM WITH TYPE C WARNING LIGHT
- (1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
- (2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
- FLEXIBLE TUBULAR MARKER
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED
- xxx REMOVING PAVEMENT MARKINGS
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3A	SHEET 134	E

2



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PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3A	SHEET 135	E

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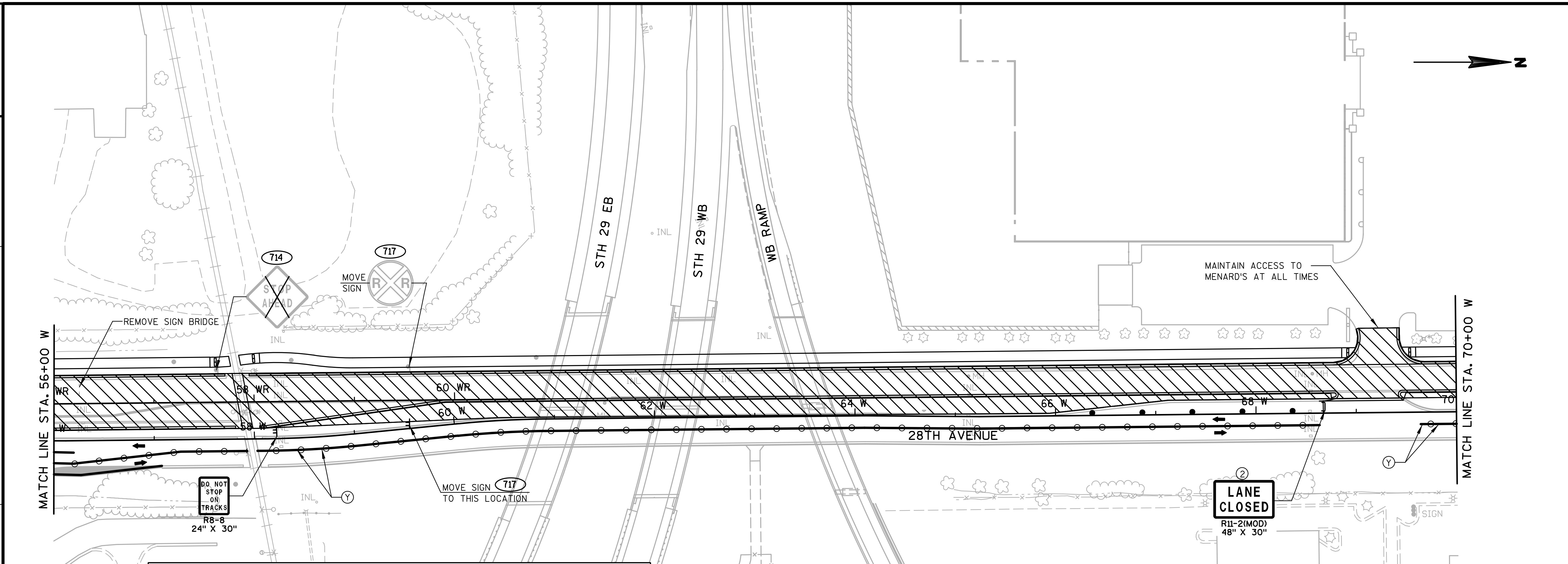
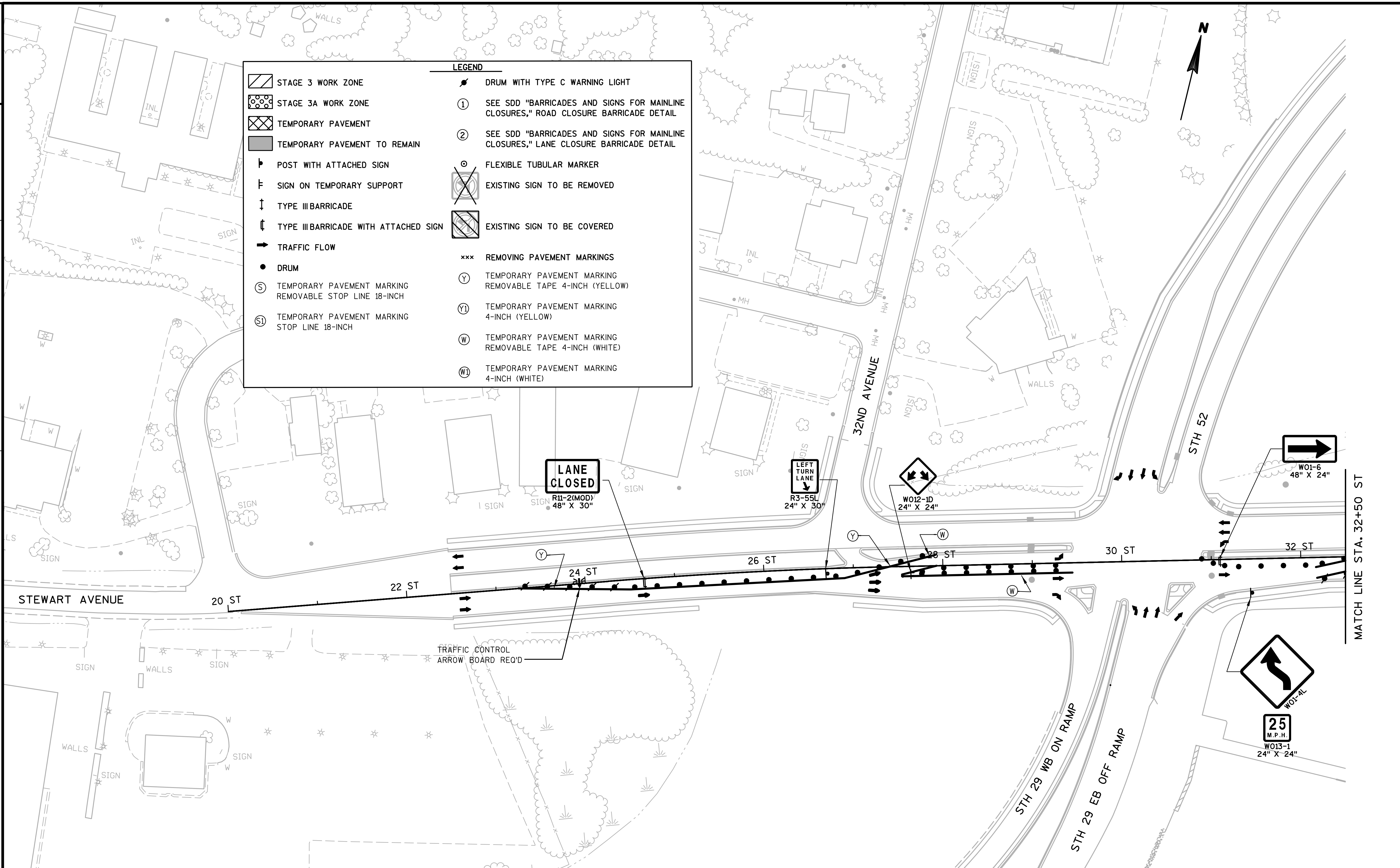


LEGEND

- STAGE 3 WORK ZONE
- STAGE 3A WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- POST WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC FLOW
- DRUM
- (S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH
- (S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- DRUM WITH TYPE C WARNING LIGHT
- (1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
- (2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
- FLEXIBLE TUBULAR MARKER
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED
- ××× REMOVING PAVEMENT MARKINGS
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING -STAGE 3A	SHEET 136	E

2



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PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3A	SHEET 137	E

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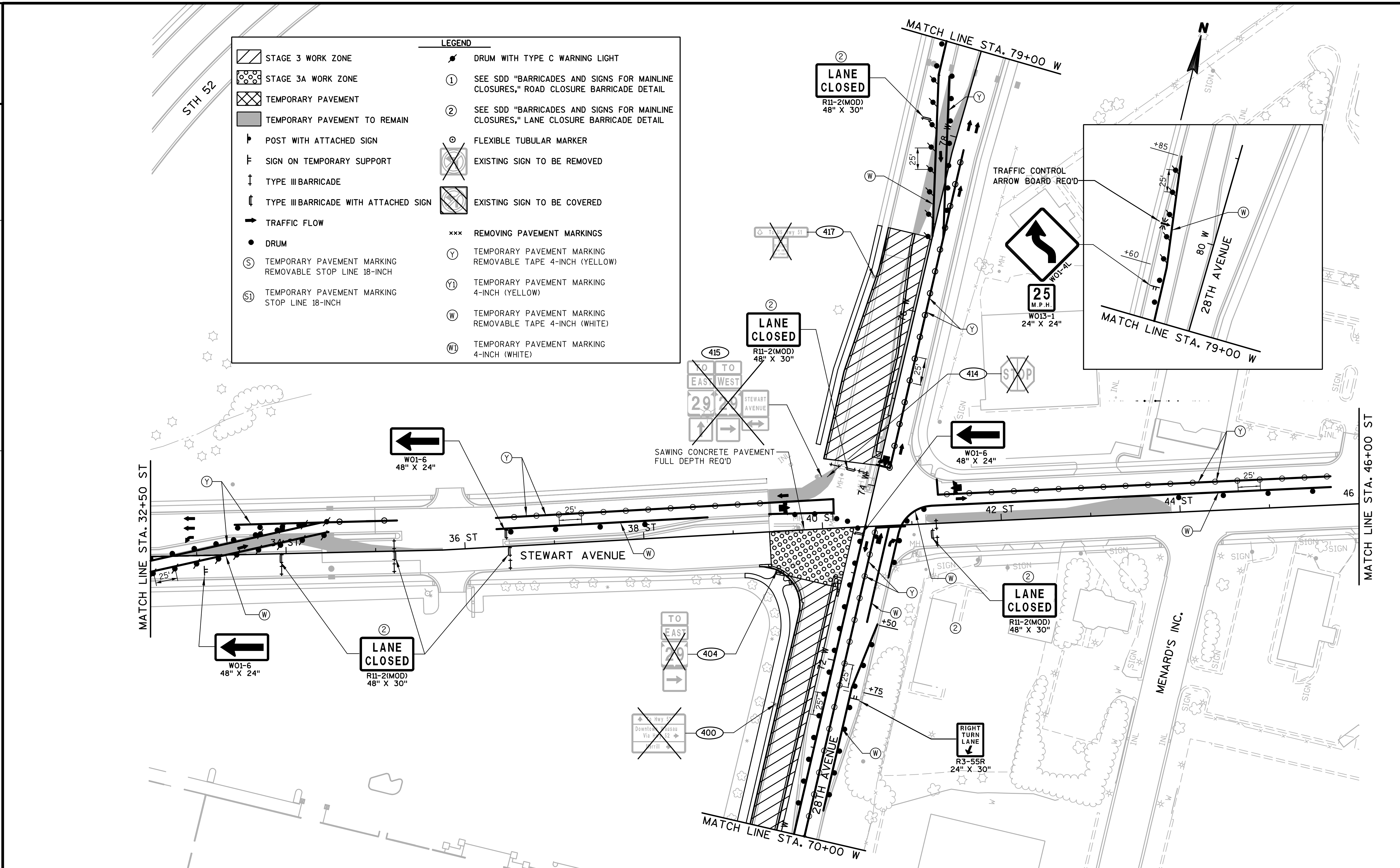


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING STAGE 3A	SHEET 138	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\026030_s3a.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STAGE 3B

PURPOSE:
COMPLETE CONSTRUCTING THE SOUTHBOUND LANES OF 28TH AVENUE FROM SHERMAN STREET TO NORTH OF STEWART AVENUE. CONSTRUCT THE NORTHWEST QUADRANT OF THE INTERSECTION AT 28TH AVENUE AND STEWART AVENUE.

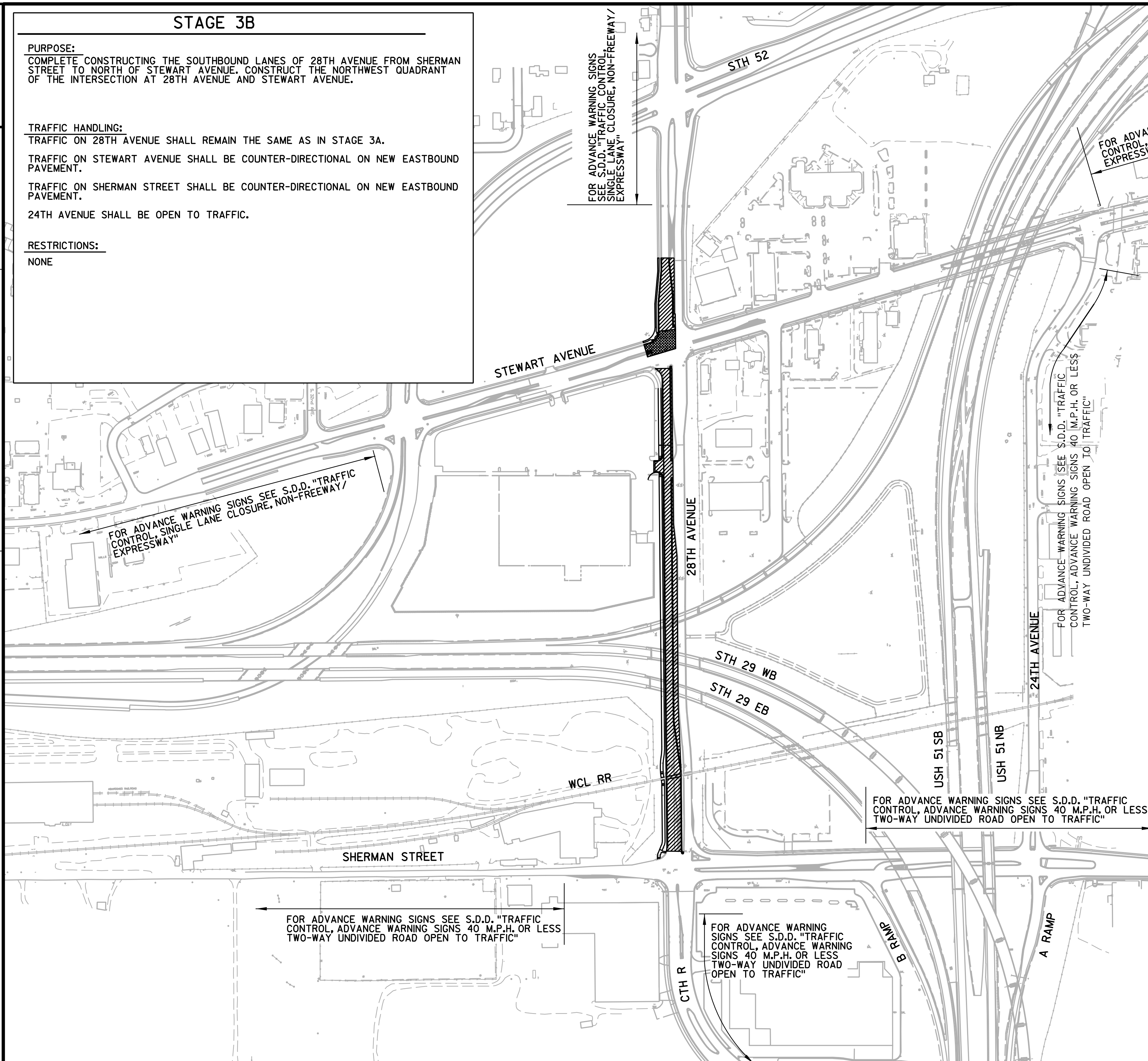
TRAFFIC HANDLING:
TRAFFIC ON 28TH AVENUE SHALL REMAIN THE SAME AS IN STAGE 3A.

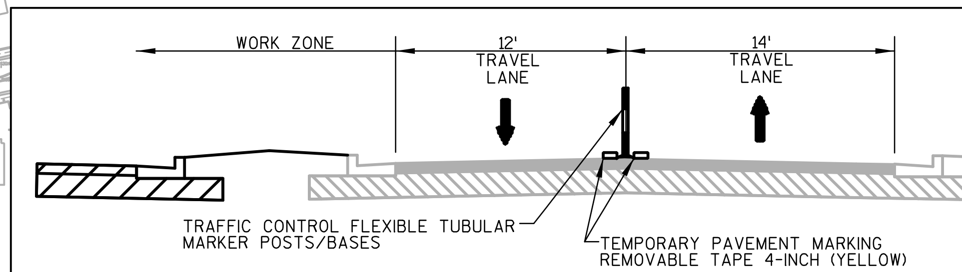
TRAFFIC ON STEWART AVENUE SHALL BE COUNTER-DIRECTIONAL ON NEW EASTBOUND PAVEMENT.

TRAFFIC ON SHERMAN STREET SHALL BE COUNTER-DIRECTIONAL ON NEW EASTBOUND PAVEMENT.

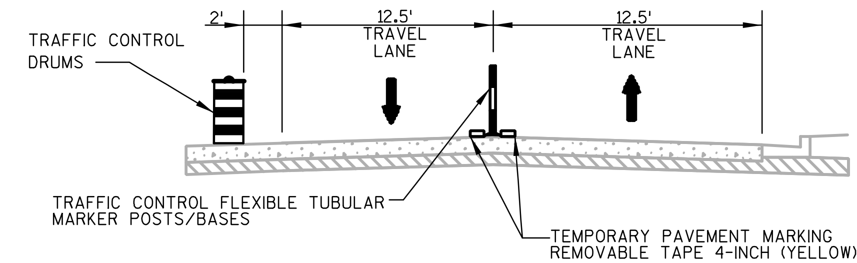
24TH AVENUE SHALL BE OPEN TO TRAFFIC.

RESTRICTIONS:
NONE

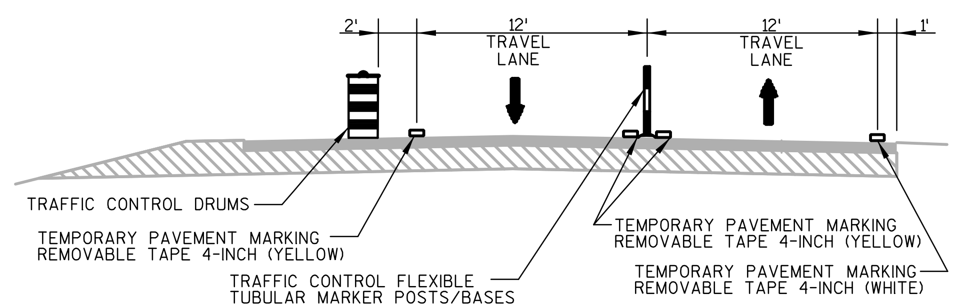




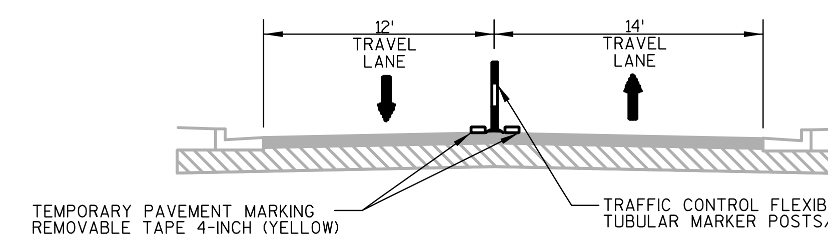
STAGE 3B - 28TH AVENUE



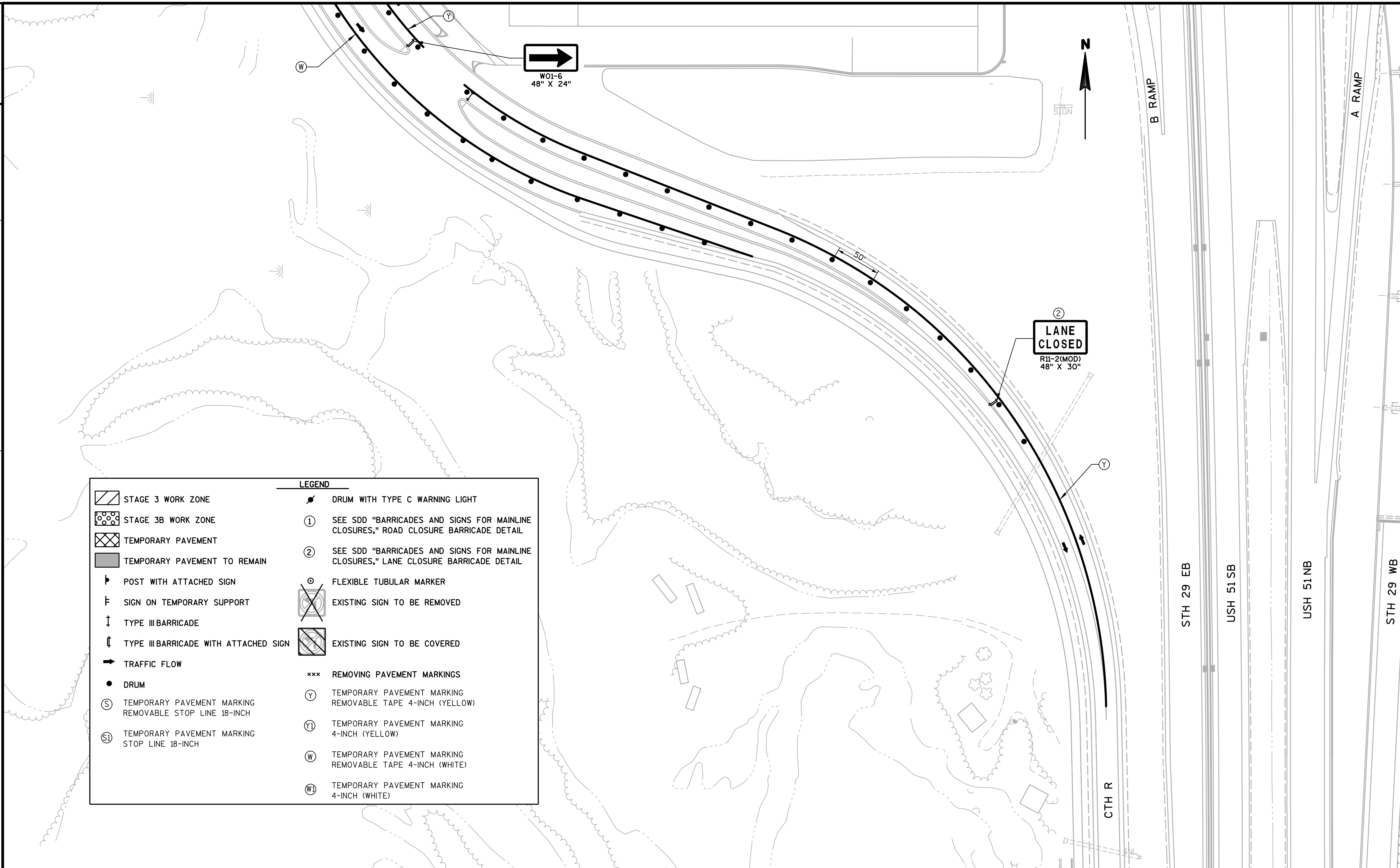
STAGE 3B - STEWART AVENUE



STAGE 3B - SHERMAN STREET
WEST OF 28TH AVENUE



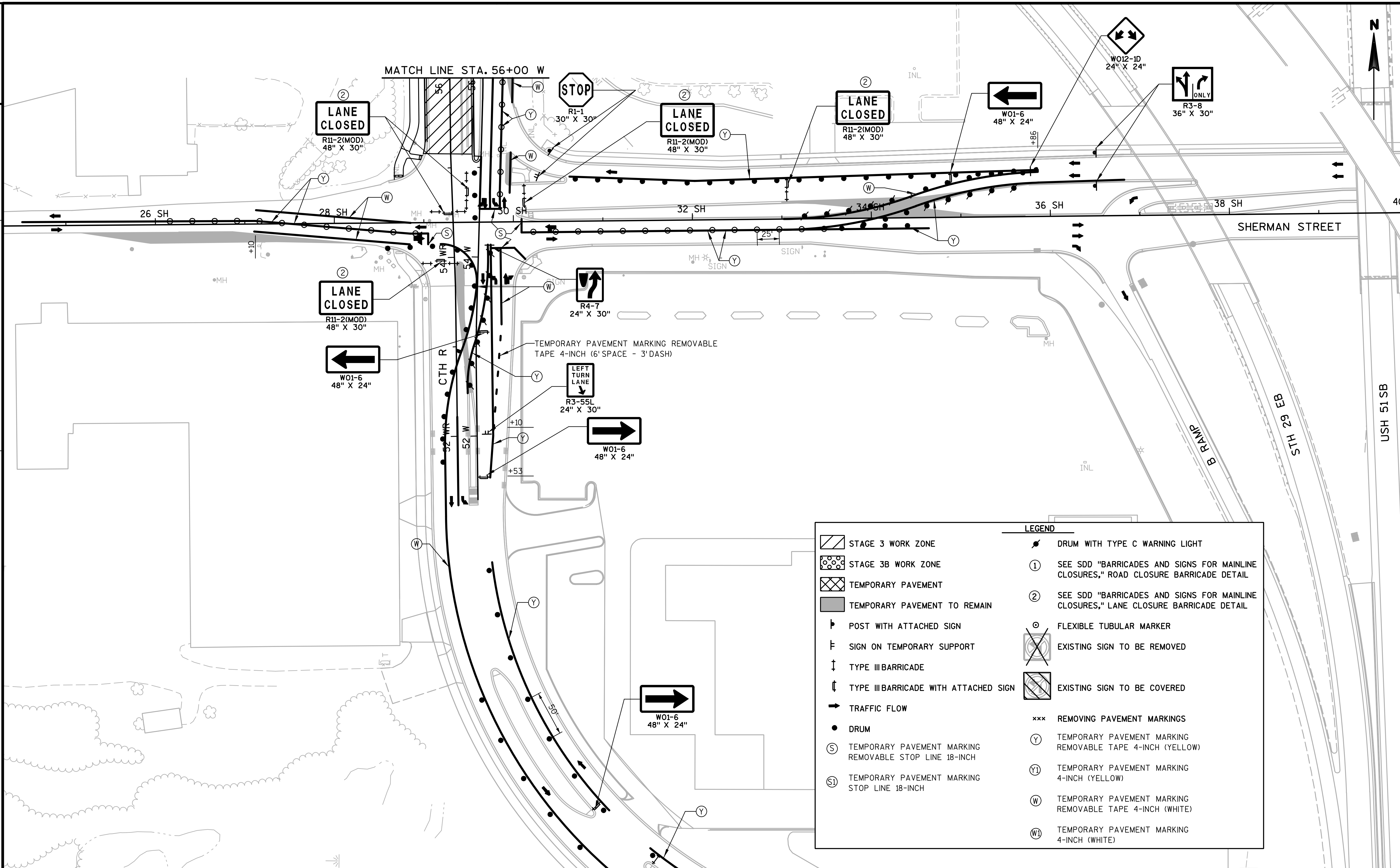
STAGE 3B - SHERMAN STREET
EAST OF 28TH AVENUE



LEGEND

- STAGE 3 WORK ZONE
- STAGE 3B WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- POST WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC FLOW
- DRUM
- (S) TEMPORARY PAVEMENT MARKING REMOVABLE STOP LINE 18-INCH
- (S1) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- DRUM WITH TYPE C WARNING LIGHT
- (1) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
- (2) SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
- FLEXIBLE TUBULAR MARKER
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED
- ××× REMOVING PAVEMENT MARKINGS
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (Y1) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (W1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

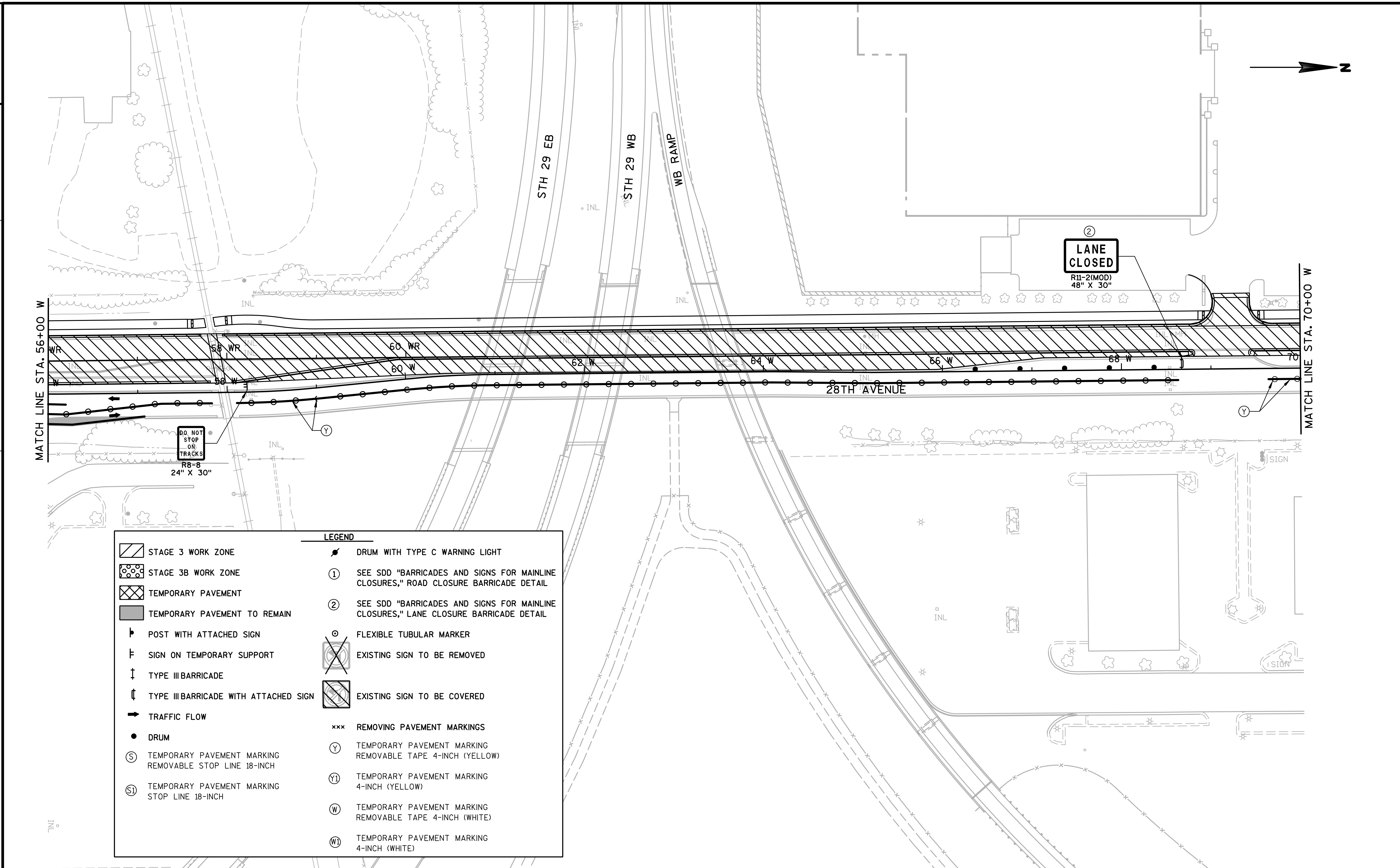
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3B	SHEET 141	E



PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3B	SHEET 142	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\026034_s3b.dgn PLOT DATE : 4/8/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

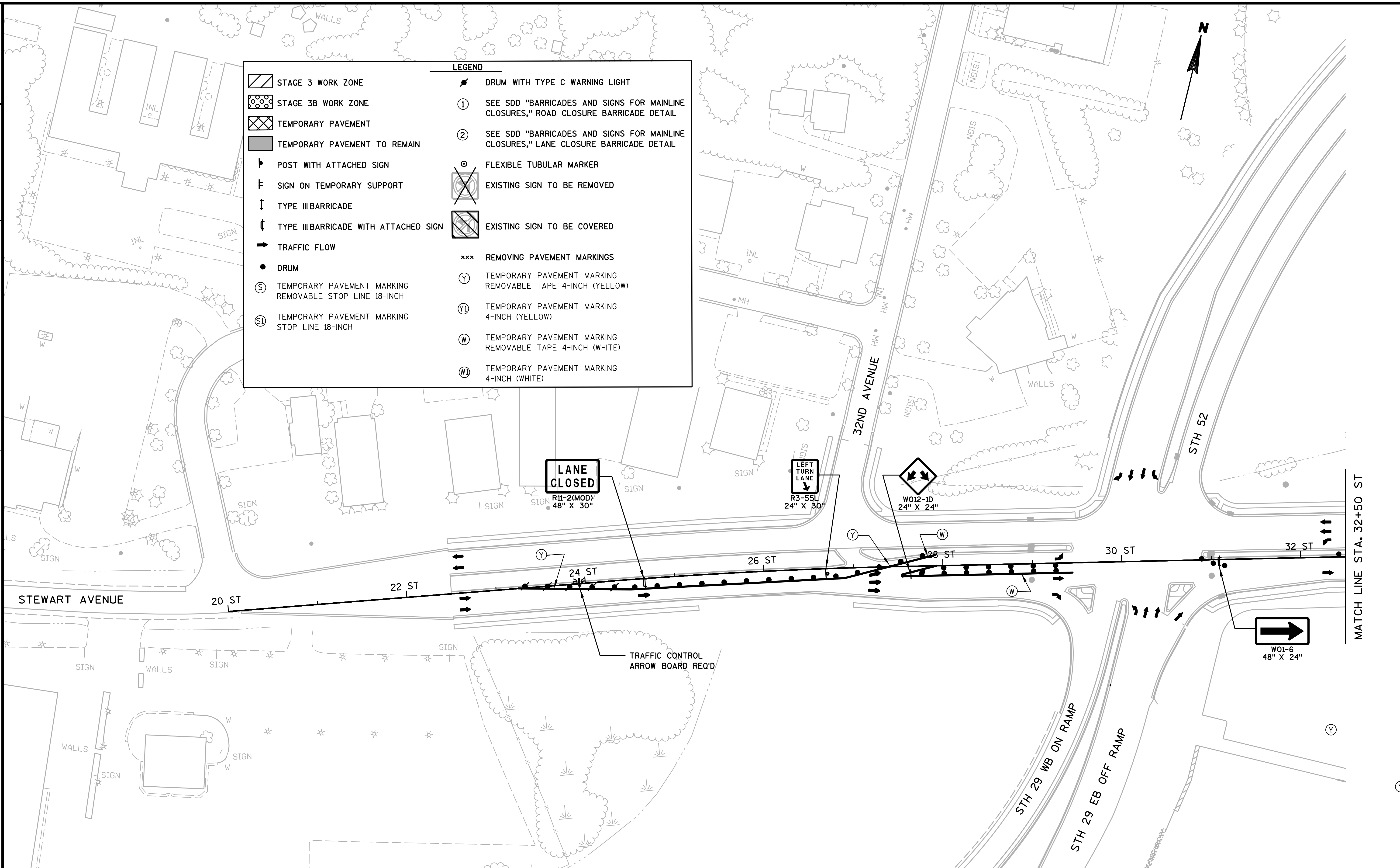
2



2

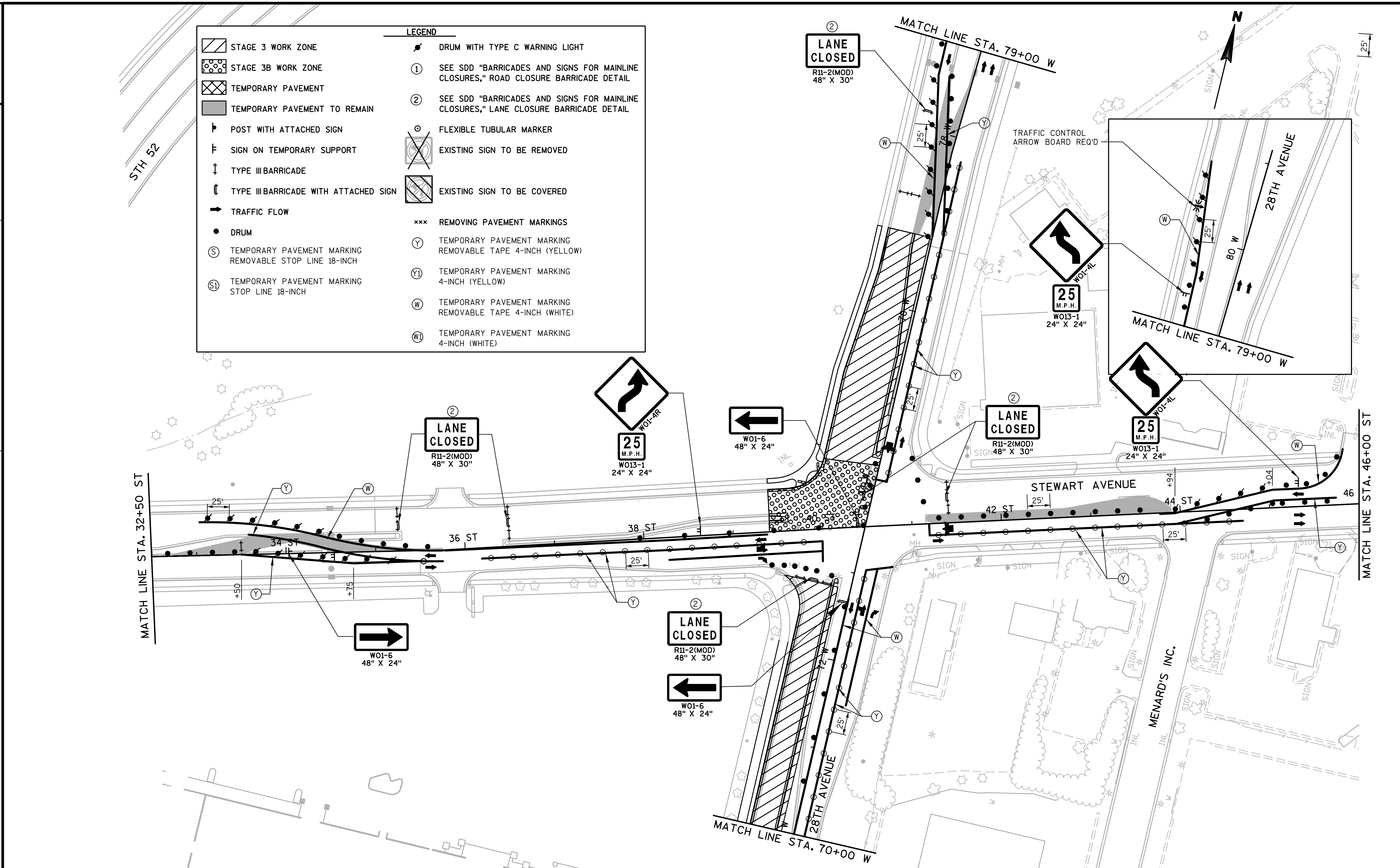
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3B	SHEET 143	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\026035_s3b.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3B	SHEET 144	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\026036_s3b.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3B	SHEET 145	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\026037_s3b.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

STAGE 4

PURPOSE:
COMPLETE CONSTRUCTING CONCRETE CURB AND GUTTER FROM STATION 41+50 ST TO STATION 43+50 ST. REMOVE TEMPORARY PAVEMENT CROSSOVER PAVEMENT ON 28TH AVENUE, STEWART AVENUE, AND SHERMAN STREET.

TRAFFIC HANDLING:
28TH AVENUE SHALL BE OPEN TO TRAFFIC.

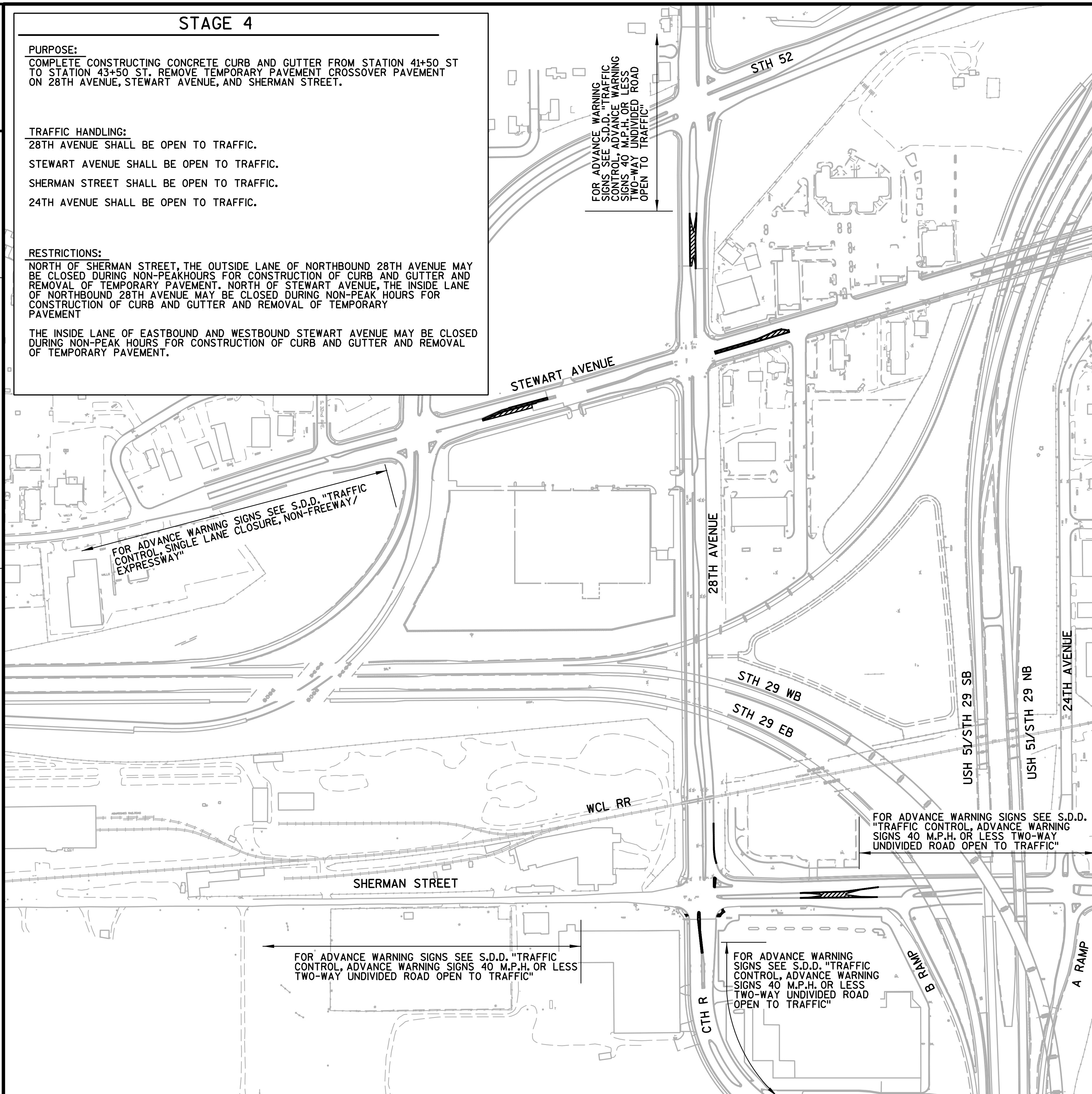
STEWART AVENUE SHALL BE OPEN TO TRAFFIC.

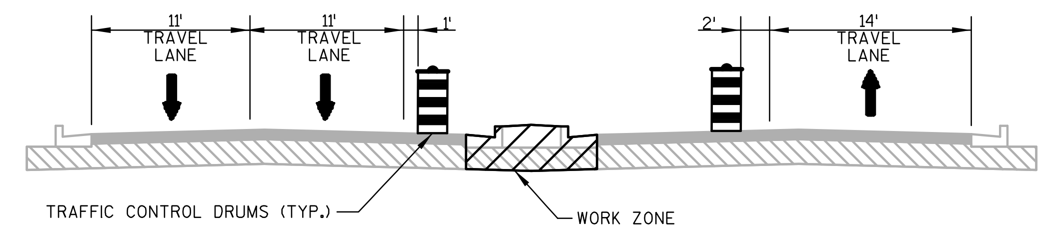
SHERMAN STREET SHALL BE OPEN TO TRAFFIC.

24TH AVENUE SHALL BE OPEN TO TRAFFIC.

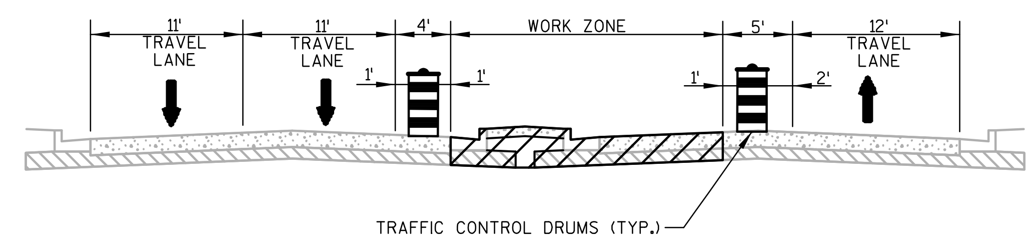
RESTRICTIONS:
NORTH OF SHERMAN STREET, THE OUTSIDE LANE OF NORTHBOUND 28TH AVENUE MAY BE CLOSED DURING NON-PEAKHOURS FOR CONSTRUCTION OF CURB AND GUTTER AND REMOVAL OF TEMPORARY PAVEMENT. NORTH OF STEWART AVENUE, THE INSIDE LANE OF NORTHBOUND 28TH AVENUE MAY BE CLOSED DURING NON-PEAK HOURS FOR CONSTRUCTION OF CURB AND GUTTER AND REMOVAL OF TEMPORARY PAVEMENT

THE INSIDE LANE OF EASTBOUND AND WESTBOUND STEWART AVENUE MAY BE CLOSED DURING NON-PEAK HOURS FOR CONSTRUCTION OF CURB AND GUTTER AND REMOVAL OF TEMPORARY PAVEMENT.

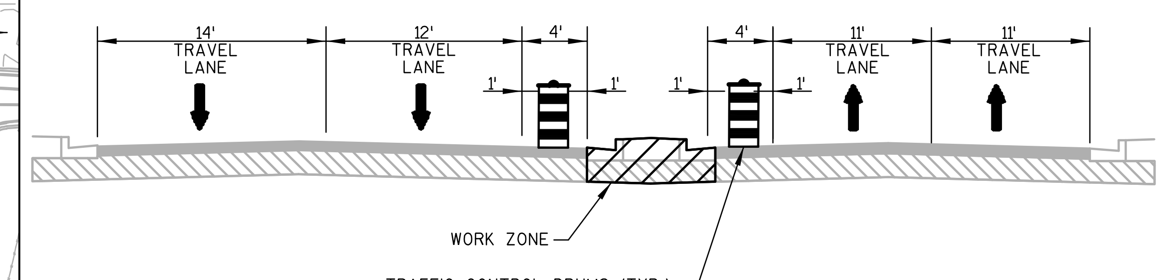




STAGE 4 - 28TH AVENUE TYPICAL



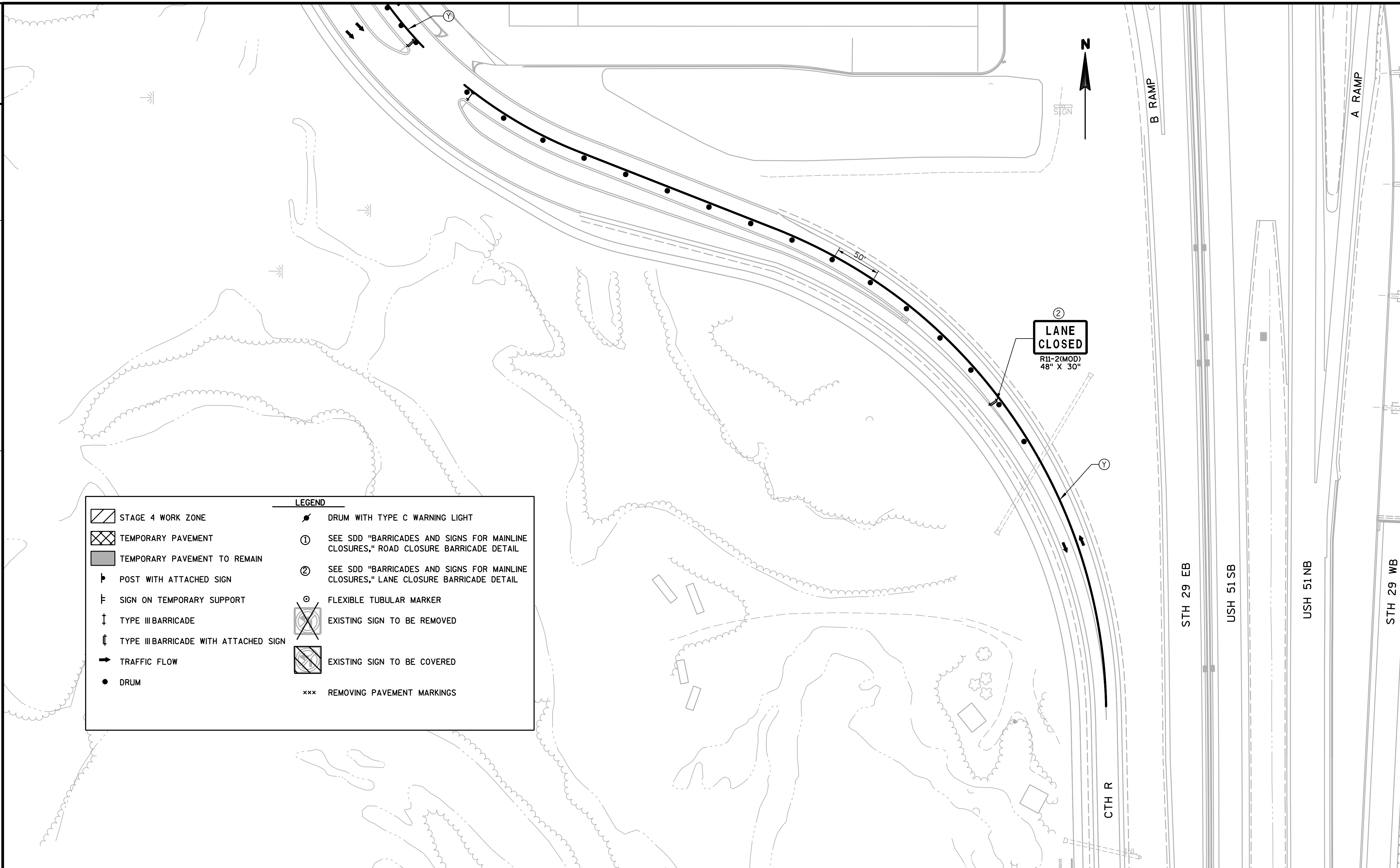
STAGE 4 - STEWART AVENUE TYPICAL



STAGE 4 - SHERMAN STREET TYPICAL

PROJECT NO:1166-09-77/79&6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING OVERVIEW - STAGE 4	SHEET 147	E

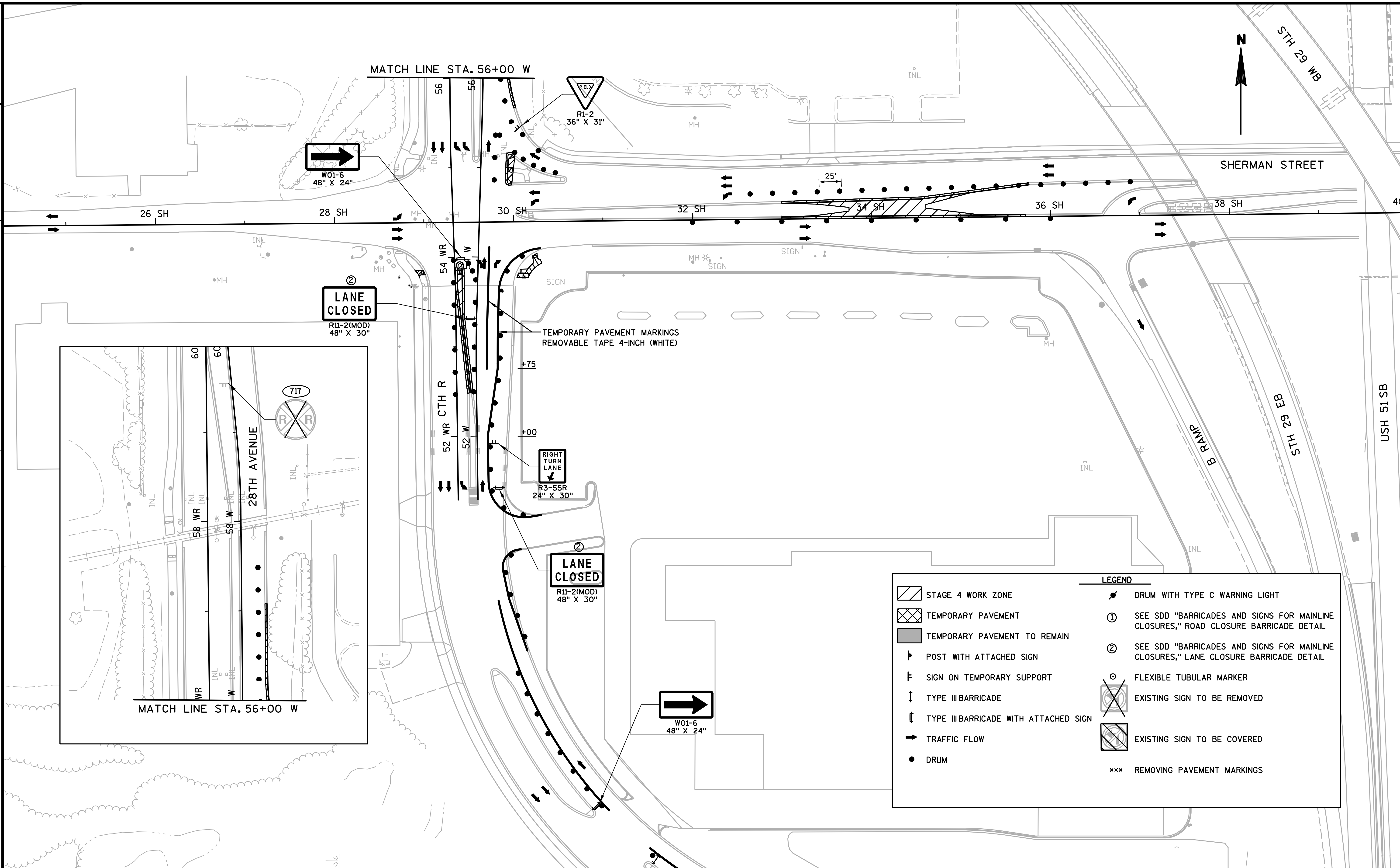
FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\026039_s4.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

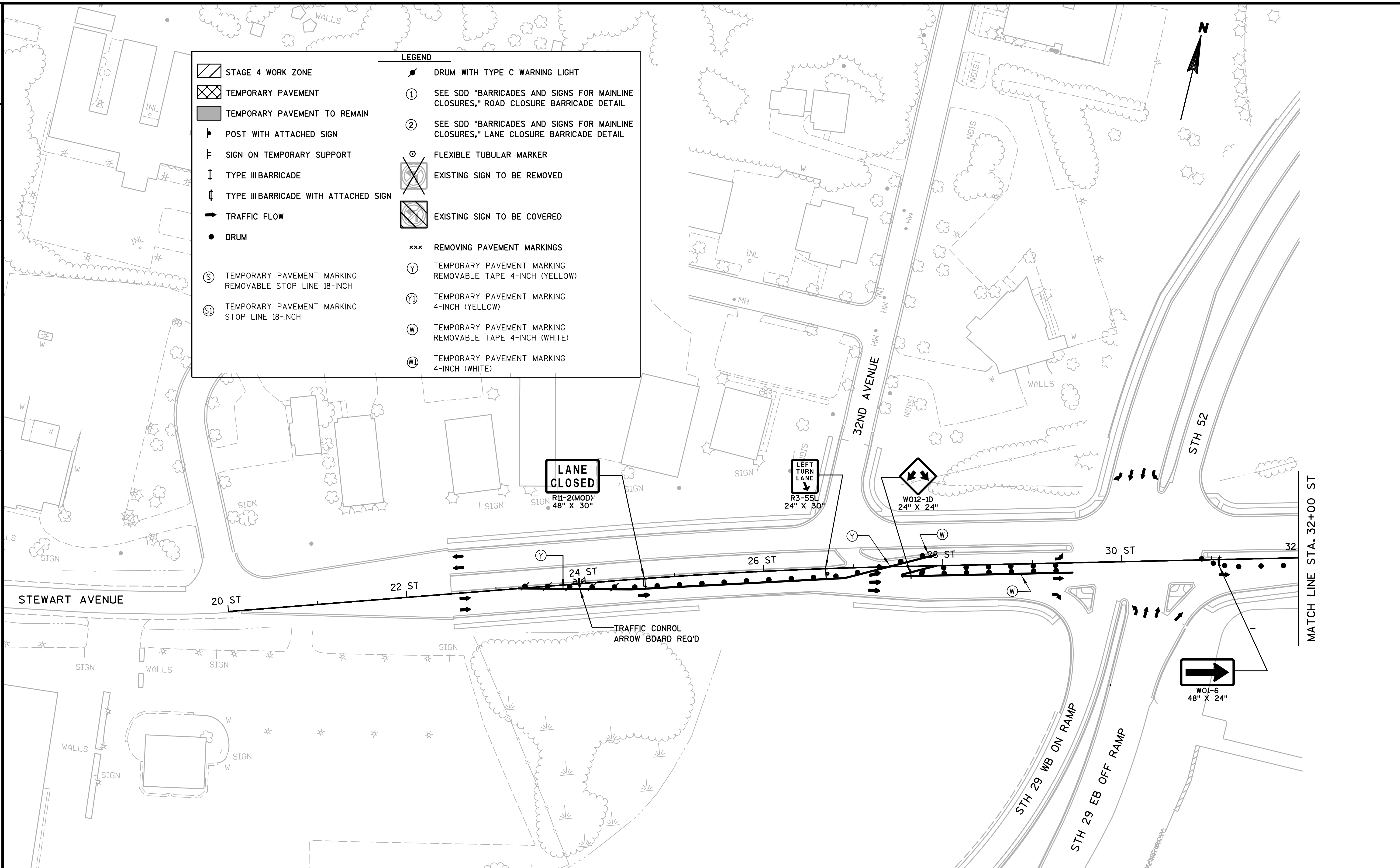
- STAGE 4 WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT TO REMAIN
- POST WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC FLOW
- DRUM
- DRUM WITH TYPE C WARNING LIGHT
- ① SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," ROAD CLOSURE BARRICADE DETAIL
- ② SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES," LANE CLOSURE BARRICADE DETAIL
- FLEXIBLE TUBULAR MARKER
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED
- ××× REMOVING PAVEMENT MARKINGS

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 148	E

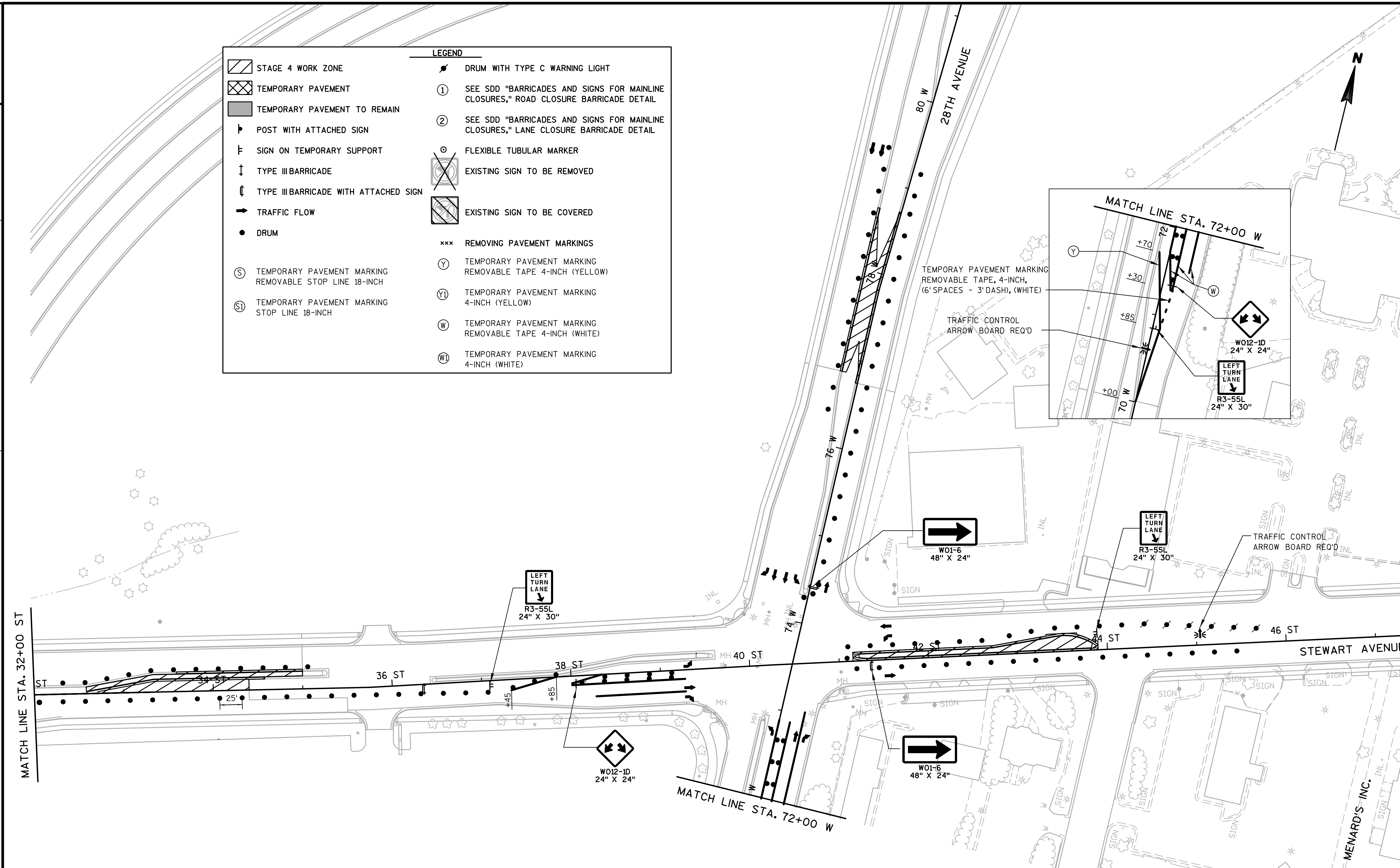


PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 149	E

2



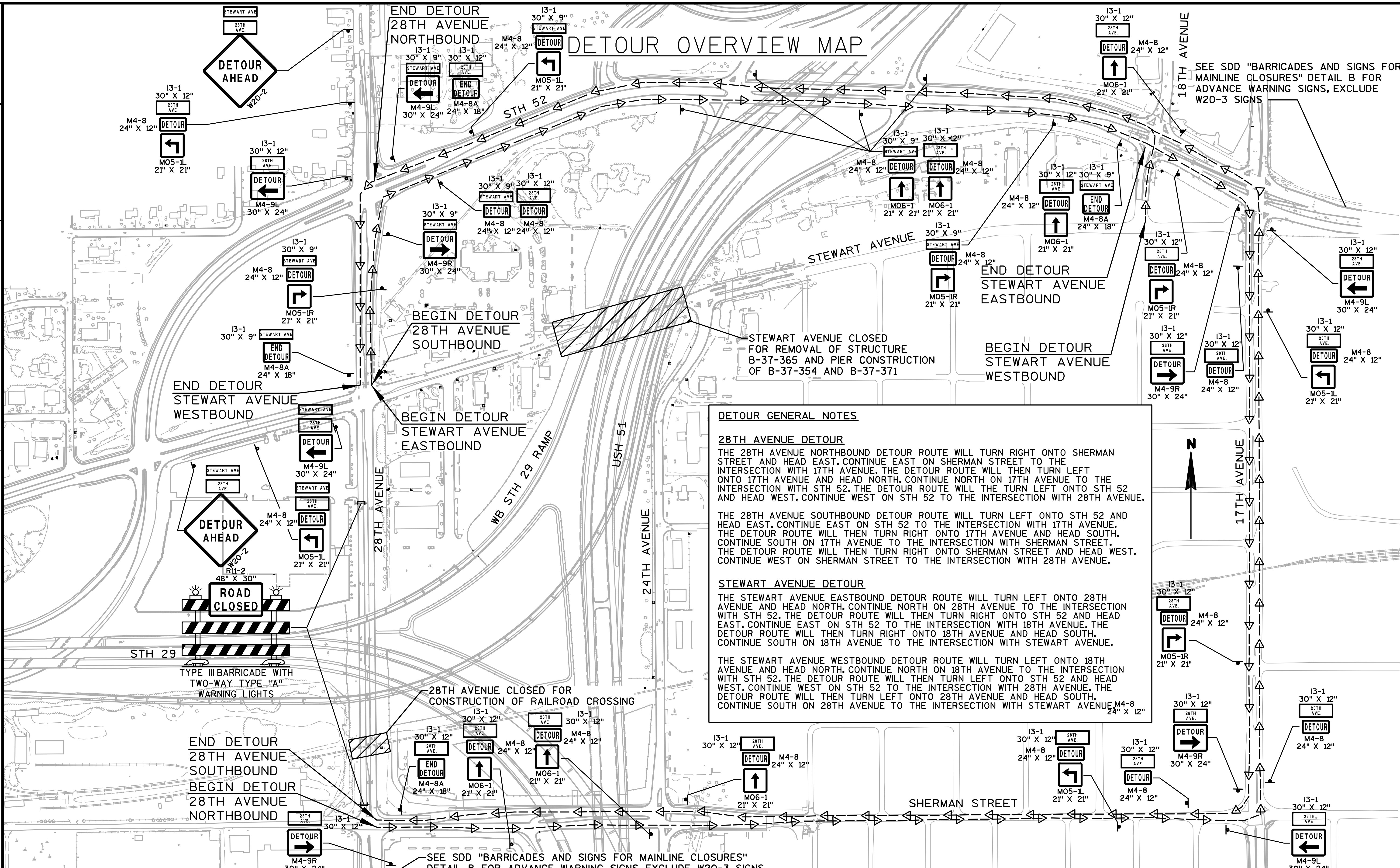
PROJECT NO:6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 150	E



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 151	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\026043_s4.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

DETOUR OVERVIEW MAP



DETOUR GENERAL NOTES

28TH AVENUE DETOUR

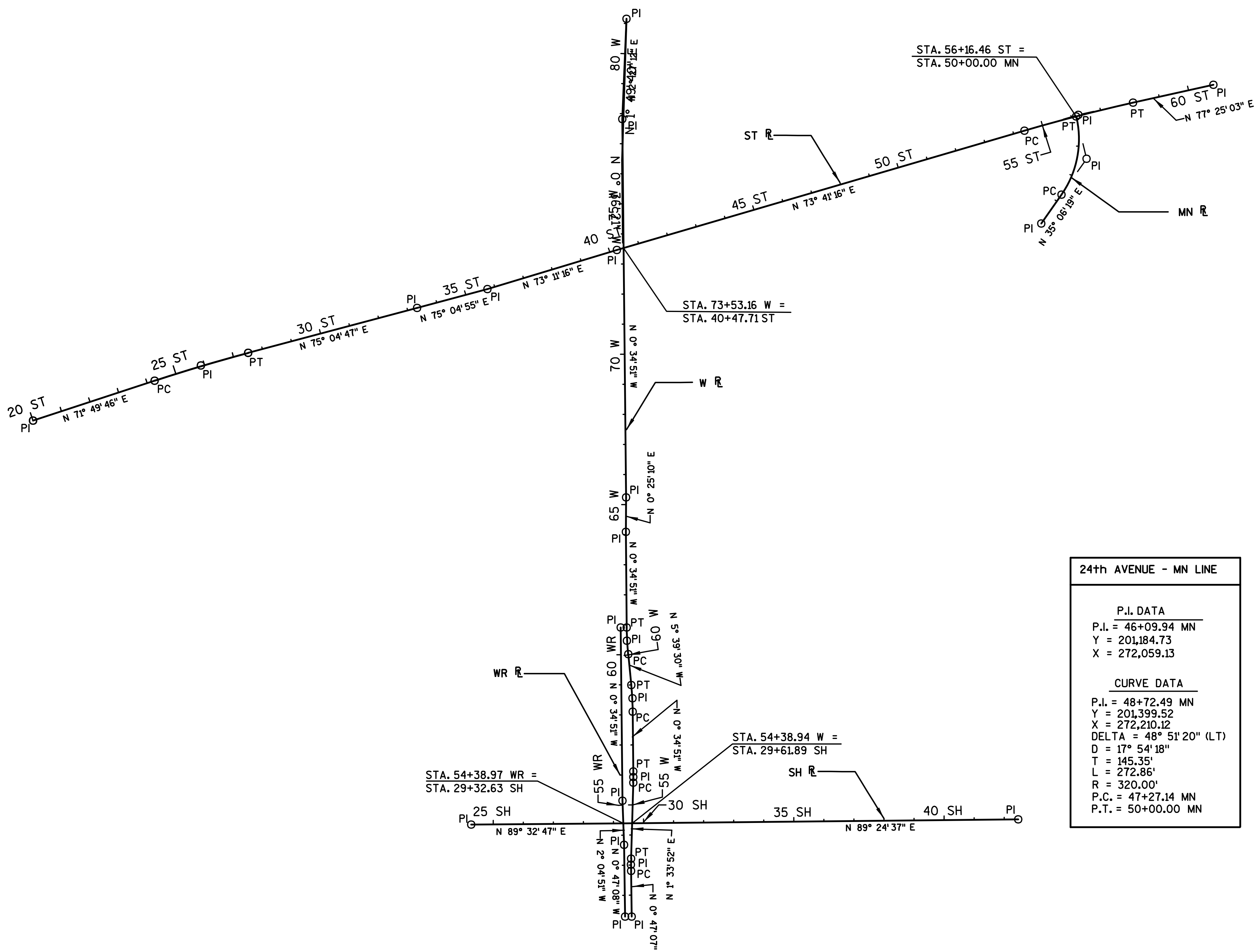
THE 28TH AVENUE NORTHBOUND DETOUR ROUTE WILL TURN RIGHT ONTO SHERMAN STREET AND HEAD EAST. CONTINUE EAST ON SHERMAN STREET TO THE INTERSECTION WITH 17TH AVENUE. THE DETOUR ROUTE WILL THEN TURN LEFT ONTO 17TH AVENUE AND HEAD NORTH. CONTINUE NORTH ON 17TH AVENUE TO THE INTERSECTION WITH STH 52. THE DETOUR ROUTE WILL THE TURN LEFT ONTO STH 52 AND HEAD WEST. CONTINUE WEST ON STH 52 TO THE INTERSECTION WITH 28TH AVENUE.

THE 28TH AVENUE SOUTHBOUND DETOUR ROUTE WILL TURN LEFT ONTO STH 52 AND HEAD EAST. CONTINUE EAST ON STH 52 TO THE INTERSECTION WITH 17TH AVENUE. THE DETOUR ROUTE WILL THEN TURN RIGHT ONTO 17TH AVENUE AND HEAD SOUTH. CONTINUE SOUTH ON 17TH AVENUE TO THE INTERSECTION WITH SHERMAN STREET. THE DETOUR ROUTE WILL THEN TURN RIGHT ONTO SHERMAN STREET AND HEAD WEST. CONTINUE WEST ON SHERMAN STREET TO THE INTERSECTION WITH 28TH AVENUE.

STEWART AVENUE DETOUR

THE STEWART AVENUE EASTBOUND DETOUR ROUTE WILL TURN LEFT ONTO 28TH AVENUE AND HEAD NORTH. CONTINUE NORTH ON 28TH AVENUE TO THE INTERSECTION WITH STH 52. THE DETOUR ROUTE WILL THEN TURN RIGHT ONTO STH 52 AND HEAD EAST. CONTINUE EAST ON STH 52 TO THE INTERSECTION WITH 18TH AVENUE. THE DETOUR ROUTE WILL THEN TURN RIGHT ONTO 18TH AVENUE AND HEAD SOUTH. CONTINUE SOUTH ON 18TH AVENUE TO THE INTERSECTION WITH STEWART AVENUE.

THE STEWART AVENUE WESTBOUND DETOUR ROUTE WILL TURN LEFT ONTO 18TH AVENUE AND HEAD NORTH. CONTINUE NORTH ON 18TH AVENUE TO THE INTERSECTION WITH STH 52. THE DETOUR ROUTE WILL THEN TURN LEFT ONTO STH 52 AND HEAD WEST. CONTINUE WEST ON STH 52 TO THE INTERSECTION WITH 28TH AVENUE. THE DETOUR ROUTE WILL THEN TURN LEFT ONTO 28TH AVENUE AND HEAD SOUTH. CONTINUE SOUTH ON 28TH AVENUE TO THE INTERSECTION WITH STEWART AVENUE.



28th AVENUE - W LINE

P.I. DATA
P.I. = 51+29.10 W
Y = 198,879.71
X = 270,696.44

CURVE DATA
P.I. = 53+01.30 W
Y = 199,051.90
X = 270,694.08
DELTA = 2°21'0" (RT)
D = 5°43'46"
T = 20.51'
L = 41.02'
R = 1,000.00'
P.C. = 52+80.79 W
P.T. = 53+21.81 W

CURVE DATA
P.I. =55+93.10 W
Y = 199,343.59
X = 270,702.04
DELTA = 2°8'43" (LT)
D = 5°43'46"
T = 18.72'
L = 37.44'
R = 1,000.00'
P.C. = 55+74.37 W
P.T. = 56+11.82 W

CURVE DATA
P.I. = 58+54.95 W
Y = 199,605.43
X = 270,699.39
DELTA = 5°4'39" (LT)
D = 5°43'46"
T = 44.34'
L = 88.62'
R = 1,000.00'
P.C. = 58+10.61 W
P.T. = 58+99.23 W

CURVE DATA
P.I. = 60+46.97 W
Y = 199,796.58
X = 270,680.45
DELTA = 5°4'39" (RT)
D = 5°43'46"
T = 44.34'
L = 88.62'
R = 1,000.00'
P.C. = 60+02.63 W
P.T. = 60+91.25 W

P.I. DATA
P.I. = 64+09.39 W
Y = 200,159.04
X = 270,676.78

P.I. DATA
P.I. = 65+23.99 W
Y = 200,273.64
X = 270,677.62

P.I. DATA
P.I. = 77+82.07 W
Y = 201,531.65
X = 270,664.86

P.I. DATA
P.I. = 81+15.73 W
Y = 201,865.00
X = 270,679.15

STEWART AVENUE - ST LINE

P.I. DATA
P.I. = 20+00 ST
Y = 200,528.69
X = 268,704.17

CURVE DATA
P.I. = 25+88.46
Y = 200,712.20
X = 269,263.28
DELTA = 3° 15' 03" (RT)
D = 1° 00' 00"
T = 162.58'
L = 325.08'
R = 5,729.58'
P.C. = 24+25.87
P.T. = 27+50.95

P.I. DATA
P.I. = 27+50.95 ST
Y = 200,754.06
X = 269,420.38

P.I. DATA
P.I. = 33+32.83 ST
Y = 200,903.88
X = 269,982.64

P.I. DATA
P.I. = 35+74.78 ST
Y = 200,966.17
X = 270,216.44

P.I. DATA
P.I. = 40+24.86 ST
Y = 201,096.34
X = 270,647.28

CURVE DATA
P.I. = 56+24.27 ST
Y = 201,545.57
X = 272,182.31
DELTA = 3° 43' 47" (RT)
D = 1° 00' 00"
T = 186.55'
L = 372.97'
R =5,729.58'
P.C. = 54+37.72 ST
P.T. = 58+10.69 ST

P.I. DATA
P.I. = 60+85.13 ST
Y = 201,646.00
X = 272,632.23

28th AVENUE - WR LINE

P.I. DATA
P.I. = 51+29.10 WR
Y = 198,879.39
X = 270,674.44

P.I. DATA
P.I. = 53+67.78 WR
Y = 199,118.05
X = 270,671.17

P.I. DATA
P.I. = 55+14.43 WR
Y = 199,264.61
X = 270,665.84

P.I. DATA
P.I. = 60+90.57 WR
Y = 199,840.71
X = 270,660.00

24th AVENUE - MN LINE

P.I. DATA
P.I. = 46+09.94 MN
Y = 201,184.73
X = 272,059.13

CURVE DATA
P.I. = 48+72.49 MN
Y = 201,399.52
X = 272,210.12
DELTA = 48° 51' 20" (LT)
D = 17° 54' 18"
T = 145.35'
L = 272.86'
R = 320.00'
P.C. = 47+27.14 MN
P.T. = 50+00.00 MN

SHERMAN STREET - SH LINE

P.I. DATA
P.I. = 24+26.25 SH
Y = 199,185.19
X = 270,162.22

P.I. DATA
P.I. = 29+33.29 SH
Y = 199,189.20
X = 270,669.24

P.I. DATA
P.I. = 42+46.90 SH
Y = 199,202.72
X = 271,982.78

PLAN ALIGNMENTS FOR CONSTRUCTION ONLY. PLEASE REFER TO THE PLAT FOR RIGHT-OF-WAY ALIGNMENTS. RIGHT-OF-WAY ALIGNMENTS MAY VARY FROM CONSTRUCTION ALIGNMENTS.

PROJECT NO: 1166-09-77, 1166-09-79, & 6999-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	ALIGNMENT DETAIL	SHEET 153	E

REMOVING PAVEMENT

CATEGORY	STATION -STATION	STAGE	LOCATION	204.0100 SY
0010	55+00 W - 70+00 W	2	RT	5030
		STAGE 2 TOTAL		5030
	54+44 W - 55+00 W	3B	LT	470
	28+60 SH - 28+84 SH	2A	LT	70
	29+60 SH - 32+14 SH	2A	LT	575
		STAGE 2A TOTAL		1115
	29+56 SH - 32+32 SH	2B	RT	1190
		STAGE 2B TOTAL		1190
	55+00 W - 70+00 W	3	LT	5145
		STAGE 3 TOTAL		5145
	28+60 SH - 29+55 SH	3A	RT	295
		STAGE 3A TOTAL		295
		TOTAL		12775

REMOVING CONCRETE CURB AND GUTTER

CATEGORY	STATION - STATION	STAGE	LOCATION	204.0150 LF
0010	28+57 SH - 29+06 SH	3A	RT	74

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	STAGE	LOCATION	204.0155 SY
0010	52+50 - 53+90	1	MED	35
		TOTAL STAGE 1		35
	29+90 - 32+25 SH	2B	MED	80
		TOTAL STAGE 2B		80
	55+10 - 56+60 W	3	MED	80
	67+00 - 69+00 W	3	MED	110
		TOTAL STAGE 3		190
	28+18 - 28+90 SH	3A	MED	30
		TOTAL STAGE 3A		30
		TOTAL		335

REMOVING CONCRETE BASES

CATEGORY	STATION - STATION	LOCATION	204.0195 EACH
0010	53+77.8 W	19.7' LT	1
	54+95.1 W	41.8' RT	1
	55+06.7 W	44.1' RT	1
	55+12.5 W	28.4' RT	1
	55+15.4 W	19.2' LT	1
	28+72.0 SH	37.3' LT	1
	28+98.4 SH	60.6' LT	1
		TOTAL	7

REMOVING MANHOLES AND INLETS

CATEGORY	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
0010	55+05 WR	69.0' LT	---	1
	55+11 W	11.9' RT	1	---
	55+13 WR	25.0' LT	---	1
	55+13 W	19.6' RT	---	1
	55+50 W	60.0' RT	---	1
	56+29 WR	11.7' RT	---	1
	56+30 W	18.4' LT	---	1
	58+26 WR	0.0'	---	1
	58+26 WR	25.0' LT	---	1
	58+30 WR	70.0' LT	---	1
	58+26 W	8.5' RT	---	1
	58+26 W	17.0' LT	---	1
	58+57 W	64.6' RT	---	1
	61+79 W	46.0' LT	---	1
	62+73 W	1.0' LT	---	1
	62+74 W	46.0' LT	---	1
	62+74 W	10.9' LT	---	1
	62+74 W	38.0' RT	---	1
	65+14 W	22.8' RT	---	1
	65+14 W	1.6' LT	---	1
	65+14 W	21.7' LT	---	1
	65+14 W	72.1' LT	---	1
	68+55 W	47.4' LT	---	1
	68+55 W	21.6' LT	---	1
	68+55 W	1.2' LT	---	1
	68+55 W	23.9' RT	---	1
	30+18 SH	44.2' LT	---	1
	30+19 SH	28.6' RT	---	1
		TOTALS	1	27

SEALING PIPES

CATEGORY	STATION	LOCATION	204.0280 EACH
0010	56+30 WR	23' LT	1
	58+25 WR	21' LT	1
	61+79 W	40' LT	1
	61+79 W	55' LT	1
		TOTAL	4

REMOVING STORM SEWER

CATEGORY	FROM STATION	TO STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.02 15-INCH LF	204.0245.03 18-INCH LF
0010	28+61 SH	55+13 WR	LT	46	---	---
	55+13 WR	55+11 W	RT & LT	---	---	71
	55+11 W	30+18 SH	RT & LT	---	49	---
	30+18 SH	30+19 SH	RT & LT	72	---	---
	55+49 W	55+13 W	RT	54	---	---
	55+13 WR	55+11 W	RT	8	---	---
	55+49 WR	55+66 WR	RT	26	---	---
	56+30 WR	56+30 WR	RT	15	---	---
	56+30 WR	56+30 WR	RT	23	---	---
	58+29 WR	58+26 WR	LT	44	---	---
	58+26 WR	58+26 WR	LT	---	---	27
	58+26 WR	58+26 WR	RT & LT	---	19	---
	58+26 WR	58+26 WR	RT	30	---	---
	62+74 W	62+74 W	LT	---	37	---
	62+74 W	62+73 W	LT	---	10	---
	62+73 W	62+74 W	RT	40	---	---
	62+74 W	62+74 W	RT	10	---	---
	65+13 W	65+14 W	LT	---	---	20
	65+14 w	65+14 w	LT	8	---	---
	65+14 W	65+14 W	LT	---	21	---
	65+14 W	65+14 W	RT	25	---	---
	68+55 W	68+57 W	LT	9	---	---
	68+57 W	68+55 W	LT	---	---	18
	68+55 W	68+55 W	LT	---	20	---
	68+55 W	68+55 W	RT	27	---	---
			TOTALS	437	156	136

EARTHWORK SUMMARY

CATEGORY	STATION - STATION	STAGE	205.0100 EXCAVATION COMMON C.Y.	ASPHALT REMOVAL C.Y.	CONCRETE REMOVAL C.Y.	(1) USEABLE EXCAVATION COMMON C.Y.	AIR FILL C.Y.	(2) EXPANDED FILL C.Y.	(3) -BORROW +WASTE C.Y.
0010	52+48.00 W - 53+94.00 W	1	40	0	0	40	0	0	40
	25+14.00 SH - 28+49.00 SH	1	120	0	0	120	0	0	120
		TOTALS STAGE 1	160	0	0	160	0	0	160
	55+04.00 W - 70+00.00 W	2	2771	13	1258	1500	491	614	886
		TOTALS STAGE 2	2771	13	1258	1500	491	614	886
	54+45.00 W - 55+04.00 W	2A	213	0	118	95	14	18	77
	26+26.00 SH - 28+85.00 SH	2A	375	87	18	270	69	86	184
	29+88.00 SH - 33+00.00 SH	2A	531	50	144	337	294	368	-31
		TOTALS STAGE 2A	1119	137	280	702	377	472	230
	53+68.00 W - 54+45.00 W	2B	344	38	0	306	0	0	306
	29+88.00 SH - 33+00.00 SH	2B	731	0	298	433	8	10	423
		TOTALS STAGE 2B	1075	38	298	739	8	10	729
	55+04.00 W - 70+00.00 W	3	3550	0	1286	2264	1382	1728	536
		TOTALS STAGE 3	3550	0	1286	2264	1382	1728	536
	53+68.00 W - 54+45.00 W	3A	252	42	0	210			210
	26+26.00 SH - 28+85.00 SH	3A	242	0	74	168	0	0	168
		TOTALS STAGE 3A	494	42	74	378	0	0	378
	33+00.00 SH - 34+50.00 SH	4	67	55	0	12	36	45	-33
		TOTALS STAGE 4	67	55	0	12	36	45	-33
		TOTALS	9169	230	3196	5743	2258	2824	2919

(1) USEABLE EXCAVATION = EXCAVATION COMMON - ASPHALT REMOVAL - CONCRETE REMOVAL
(2) EXPANSION FACTOR = 1.25
(3) BORROW/WASTE = USEABLE EXCAVATION - EXPANDED FILL

NO DEDUCTION WILL BE MADE FROM THE VOLUME OF COMMON EXCAVATION FOR THE VOLUME OF ASPHALTIC PAVEMENT AND CONCRETE PAVEMENT REMOVED UNDER THE ITEM OF "REMOVING PAVEMENT."

FINISHING ROADWAY

CATEGORY	PROJECT I.D.	213.0100 EACH
0010	1166-09-79	1

BASE AGGREGATE SUMMARY

CATEGORY	STATION - STATION	LOCATION	STAGE	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON*	624.0100 WATER MGAL
0010	52+48.00 W - 53+94.00 W	LT	1	80	0.80
	25+14.00 SH - 28+49.00 SH	RT	1	240	2.40
			TOTALS STAGE 1	320	3.20
	55+04.00 W - 70+00.00 W	RT	2	4150	41.50
			TOTALS STAGE 2	4150	41.50
	54+45.00 W - 55+04.00 W	RT	2A	520	5.20
	54+81.00 W - 55+16.00 W	RT	2A	20	0.20
	55+67.00 W - 57+07.00 W	RT	2A	70	0.70
	26+26.00 SH - 28+85.00 SH	LT	2A	600	6.00
	29+88.20 SH - 33+00.00 SH	LT	2A	1080	10.80
			TOTALS STAGE 2A	2290	22.90
	53+68.00 W - 54+45.00 W	RT	2B	240	2.40
	29+88.20 SH - 33+00.00 SH		2B	1700	17.00
			TOTALS STAGE 2B	1940	19.40
	55+04.00 W - 70+00.00 W	LT	3	5150	51.50
			TOTALS STAGE 3	5150	51.50
	53+68.00 W - 54+45.00 W	LT	3A	370	3.70
	26+26.00 SH - 28+85.00 SH	LT	3A	320	3.20
			TOTALS STAGE 3A	370	3.70
			TOTALS	14220	142.20

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

DRIVEWAY SUMMARY

CATEGORY	STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON*
0010	63+00.0 W	RT	8	---	35	40
	69+22.5 W	LT	---	18	---	18
		TOTALS	8	18	35	58

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

PAVEMENT TIES

CATEGORY	STATION - STATION	LOCATION	416.0610 EACH
0010	33+00 SH - 35+70 SH	LT	90
	33+00 SH - 35+76.29 SH	LT	92
		TOTAL	182

3

ASPHALTIC ITEMS

CATEGORY	STATION - STATION	LOCATION	STAGE	(1) 455.0115 ASPHALTIC MATERIAL PG64-22 TON	(1) 455.0120 ASPHALTIC MATERIAL PG64-28 TON	455.0605 TACK COAT GAL	460.1100 HMA PAVEMENT TYPE E-0.3 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	465.0125 ASPHALTIC SURFACE TEMPORARY TON
0010	52+48 W - 53+94 W	LT	1	---	---	---	---	---	---	32
	25+14 SH - 28+49 SH	RT	1	---	---	---	---	---	---	98
			STAGE 1 TOTALS	0	0	0	0	0	0	130
	55+08 W - 55+95.73 W	RT	2	10	10	30	0	320	205	0
	58+05.90 W - 70+00 W	RT	2	40	30	100	0	1170	749	0
			STAGE 2 TOTALS	50	40	130	0	1490	954	0
	55+04 W - 55+79 W	LT	2A	---	---	---	---	---	---	4
	54+81 W - 55+16 W	RT	2A	---	---	---	---	---	---	8
	55+67 W - 57+07 W	RT	2A	---	---	---	---	---	---	28
	25+06.8 SH - 28+84.6 SH	LT	2A	8	8	20	0	240	156	0
	28+84.4 SH - 29+56.5 SH	LT	2A	5	4	10	0	160	102	0
	29+56.5 SH - 33+00.0 SH	LT	2A	15	10	40	0	490	314	0
			STAGE 2A TOTALS	28	22	70	0	890	572	40
	53+68 W - 54+11 W	RT	2B	2	2	6	0	76	50	0
	29+56.5 SH - 33+00.0 SH	RT	2B	10	9	30	0	320	205	0
			STAGE 2B TOTALS	12	11	36	0	396	255	0
	55+02.4 W - 57+88.49 W	LT	3	20	10	40	30	470	320	0
	57+98.66 W - 70+00 W	LT	3	50	30	100	140	1160	832	0
			STAGE 3 TOTALS	70	40	140	170	1630	1152	0
	53+43 W - 54+11 W	LT	3A	3	3	7	0	84	5	0
	26+26.1 SH - 29+56.5 SH	RT	3A	8	7	20	0	260	166	0
			STAGE 3A TOTALS	11	10	27	0	344	171	0
	54+84.0 W - 52+52.0 W	WALK	3B	1	0	2	10	0	6	0
			STAGE 3B TOTALS	1	0	2	10	0	6	0
			TOTALS	171	123	405	180	4750	3110	170

NOTE: ASPHALTIC MATERIAL FOR THE UPPER LAYER SHALL BE PG64-28 AND FOR THE LOWER LAYER PG64-22.

(1) 5-INCH HMA PAVMENT ESTIMATED 2.5-INCH UPPER LAYER, 2.5-INCH LOWER LAYER.
5.5-INCH HMA PAVEMENT ESTIMATED 2.5-INCH UPPER LAYER, 3.0-INCH LOWER LAYER.

CULVERT PIPE CONCRETE COLLAR

CATEGORY	STATION	LOCATION	520.8000.S EACH
0010	58+57 W	64.6' RT	1

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CONCRETE CURB & GUTTER SUMMARY

CATEGORY	STATION - STATION	LOCATION	STAGE	601.0411 30-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	REMARKS
0010	55+18.64 W - 57+82.95 W	MEDIAN RT	2	281	281	
	30+59.92 SH - 57+88.58 W	RT	2	235	235	
	58+07.19 W - 68+75.73 W	MEDIAN RT	2	1060	1060	
	58+12.77 W - 70+00.00 W	RT	2	1190	1190	
	64+47.10 W - 70+00.00 W	MEDIAN RT	2	55	55	
	54+85.23 W - 55+13.94 W	ISLAND	2	29	29	
	54+85.23 W - 30+56.28 SH	ISLAND	2	61	61	REJECT
	55+13.94 W - 30+56.28 SH	ISLAND	2	64	64	
			STAGE 2 TOTALS	2975	2975	
	54+85.70 WR - 55+29.39 WR	LT	2A	59	59	
	30+05.37 SH - 33+00.00 SH	MEDIAN LT	2A	305	305	
	30+59.92 SH - 33+00.00 SH	LT	2A	240	240	
			STAGE 2A TOTALS	604	604	
	53+81.30 W - 53+90.00 W	RT	2B	10	10	
	54+03.70 W - 54+09.10 W	RT	2B	10	10	
	30+05.37 SH - 33+00.00 SH	MEDIAN RT	2B	295	295	
	30+87.66 SH - 33+00.00 SH	RT	2B	215	215	
			STAGE 2B TOTALS	530	530	
	55+18.64 W - 57+81.26 W	MEDIAN LT	3	265	265	
	55+29.39 WR - 57+71.07 WR	MEDIAN LT	3	240	240	
	57+95.32 WR - 69+02.86 W	LT	3	1130	1130	
	58+05.50 W - 68+75.73 W	MEDIAN LT	3	1090	1090	
	69+41.42 W - 70+00.00 W	LT	3	80	80	
	64+47.10 W - 70+00.00 W	MEDIAN LT	3	65	65	
			STAGE 3 TOTALS	2870	2870	
	27+56.68 SH - 29+06.44 SH	RT	3A	74	74	
			STAGE 3A TOTALS	74	74	
	52+48.01 W - 53+94.09 W	MEDIAN LT	4	140	140	
	52+48.63 W - 53+94.09 W	MEDIAN RT	4	150	150	
			STAGE 4 TOTALS	290	290	
			TOTALS	7343	7343	

CONCRETE SIDEWALK 5-INCH

CATEGORY	STATION - STATION	LOCATION	STAGE	602.0410 SF
0010	67+13 W - 68+76 W	MEDIAN	2	810
	55+12 W - 58+11 W	MEDIAN	2	2200
	30+39 SH - 30+60 SH	LT	2	180
			STAGE 2 TOTALS	3190
	54+85 W - 30+56 SH	ISLAND	2A	840
	30+09 W - 30+18 W	MEDIAN	2A	45
			STAGE 2A TOTALS	885
	57+56 WR - 57+77 WR	LT	3A	200
	57+85 WR - 58+06 WR	LT	3A	200
	68+86 W - 69+00 W	LT	3A	105
	69+46 W - 69+60 W	LT	3A	105
			STAGE 3A TOTALS	610
	54+89 WR - 55+19 WR	LT	3B	410
			STAGE 3B TOTALS	410
	52+48 W - 53+87 W	MEDIAN	4	315
	53+84 WR	LT	4	45
	30+18 SH - 30+31 SH	RT	4	185
			STAGE 4 TOTALS	545
			TOTALS	5640

CURB RAMP DETECTABLE WARNING FIELD YELLOW

CATEGORY	STATION	LOCATION	602.0505 SF
0010	53+83 W	LT	36
	53+84 WR	LT	18
	54+93 WR	LT	36
	55+13 WR	LT	18
	55+20 W	RT	18
	57+61 WR	LT	36
	57+99 WR	LT	36
	68+91 W	LT	36
	69+53 W	LT	36
	28+72 SH	RT	36
	30+06 SH	RT	18
	30+16 SH	ISLAND	18
	30+13 SH	MEDIAN LT	18
	30+13 SH	MEDIAN LT	18
	30+19 SH	ISLAND	18
	30+24 SH	RT	18
		TOTAL	414

STORM SEWER PIPE

			STORM SEWER PIPE REINFORCED CONCRETE CLASS III			
CATEGORY	FROM STRUCT.	TO STRUCT.	608.0312 12-INCH L.F.	608.0315 15-INCH L.F.	608.0318 18-INCH L.F.	608.0324 24-INCH L.F.
0010	900	905	---	---	---	70.0
	900A	900	---	47.0	---	---
	900B	900A	42.0	---	---	---
	900C	985B	55.0	---	---	---
	900D	900C	10.2	---	---	---
	905A	905	---	---	---	46.0
	905B	905	12.0	---	---	---
	905C	900	5.5	---	---	---
	905D	900C	6.7	---	---	---
	985A	900	---	---	87.0	---
	985B	985A	---	9.0	---	---
	985C	985A	---	11.0	---	---
	985D	985C	9.0	---	---	---
	985E	985C	32.2	---	---	---
	910A	910B	46.5	---	---	---
	910B	910	7.7	---	---	---
	910C	910B	17.8	---	---	---
	910D	910	---	---	44.0	---
	910E	910D	---	---	16.8	---
	910F	910E	---	14.1	---	---
	910G	910F	16.0	---	---	---
	910H	910F	29.0	---	---	---
	910J	910H	16.4	---	---	---
	910K	CONNECT	---	---	15.2	---
	915A	CONNECT	5.0	---	---	---
	915B	CONNECT	5.0	---	---	---
	915C	915B	17.0	---	---	---
	915D	915C	29.0	---	---	---
	920A	920	9.2	---	---	---
	920B	920	19.8	---	---	---
	920C	920B	18.8	---	---	---
	920D	920C	29.0	---	---	---
	925A	925	10.4	---	---	---
	925B	925	19.0	---	---	---
	925C	925B	7.0	---	---	---
	925D	925C	41.0	---	---	---
	930A	930B	29.0	---	---	---
	930B	930C	18.5	---	---	---
	930C	930B	119.0	---	---	---
	930D	930C	29.9	---	---	---
	930E	930C	27.2	---	---	---
		TOTALS	739.8	81.1	163.0	116.0

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MANHOLES AND INLETS SUMMARY

CATEGORY	STRUCT. ID#	611.0201 MANHOLE TYPE 1 EACH	SPV.0060.19 MANHOLE TYPE 1 SPECIAL EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0636 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	650.4000 CONSTRUCTION STAKING STORM SEWER SYSTEM EACH
0010	900	1	---	---	---	1	---	---	---	1
	900A	---	---	1	---	---	1	---	---	1
	900B	---	---	---	1	---	---	---	1	1
	900C	---	---	1	---	---	1	---	---	1
	900D	---	---	1	---	---	1	---	---	1
	901	---	---	---	---	1	---	---	---	---
	902	---	---	---	---	1	---	---	---	---
	903	---	---	---	---	1	---	---	---	---
	905	---	1	---	---	1	---	---	---	1
	905A	---	---	---	1	---	---	---	1	1
	905B	---	---	1	---	---	1	---	---	1
	905C	---	---	1	---	---	1	---	---	1
	905D	---	---	1	---	---	1	---	---	1
	985A	---	---	1	---	---	1	---	---	1
	985B	---	---	1	---	---	1	---	---	1
	985C	---	---	1	---	---	1	---	---	1
	985D	---	---	1	---	---	1	---	---	1
	985E	---	---	1	---	---	1	---	---	1
	910	---	---	---	---	1	---	---	---	---
	910A	---	---	---	1	---	---	---	1	1
	910B	---	---	1	---	---	---	1	---	1
	910C	---	---	1	---	---	---	1	---	1
	910D	---	---	1	---	---	---	1	---	1
	910E	---	---	1	---	---	---	1	---	1
	910F	---	---	1	---	---	---	1	---	1
	910G	---	---	1	---	---	---	1	---	1
	910H	---	---	1	---	---	---	1	---	1
	910J	---	---	1	---	---	---	1	---	1
	910K	---	---	---	1	---	---	---	1	1
	915A	---	---	1	---	---	1	---	---	1
	915B	---	---	1	---	---	1	---	---	1
	915C	---	---	1	---	---	1	---	---	1
	915D	---	---	1	---	---	1	---	---	1
	917	---	---	---	---	1	---	---	---	---
	920	---	---	---	---	1	---	---	---	---
	920A	---	---	1	---	---	1	---	---	1
	920B	---	---	1	---	---	1	---	---	1
	920C	---	---	1	---	---	1	---	---	1
	920D	---	---	1	---	---	1	---	---	1
	925	---	---	---	---	1	---	---	---	---
	925A	---	---	1	---	---	1	---	---	1
	925B	---	---	1	---	---	1	---	---	1
	925C	---	---	1	---	---	1	---	---	1
	925D	---	---	1	---	---	1	---	---	1

	930A	---	---	1	---	---	1	---	---	1
	930B	---	---	1	---	---	1	---	---	1
	930C	---	---	1	---	---	1	---	---	1
	930D	---	---	1	---	---	1	---	---	1
	TOTALS	1	1	35	4	9	27	8	4	41

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	PROJECT I.D.	618.0100 EACH
0010	1166-09-79	1

MOBILIZATION

CATEGORY	PROJECT I.D.	619.1000 EACH
0010	1166-09-79	0.05

CONCRETE MEDIAN SLOPE NOSE

CATEGORY	STATION	LOCATION	620.0300 SF
0010	53+93 W	MEDIAN LT	50
	55+10 W	MEDIAN LT	50
	55+14 W	ISLAND RT	55
	68+78 W	MEDIAN LT	50
	69+46 W	MEDIAN LT	55
	30+07 SH	MEDIAN LT	50
	29+96 SH	ISLAND LT	40
	30+56 SH	ISLAND LT	50
		TOTAL	400

SILT FENCE

CATEGORY	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
0010	55+51 SH - 58+00 W	RT	260	520
	57+00 WR - 57+73 WR	LT	75	150
	57+78 WR - 60+75 WR	LT	300	600
	66+50 W - 69+00 W	LT	255	510
	69+46 W - 70+00 W	LT	65	130
	26+50 SH - 28+66 SH	LT	230	460
	55+51 SH - 33+00 SH	LT	285	570
	54+05 SH - 33+00 SH	RT	215	430
	UNDISTRIBUTED	LT & RT	400	800
		TOTAL	2085	4170

MOBILIZATIONS EROSION CONTROL

CATEGORY	STAGE	628.1905 EACH
0010	PRE-1	1
	2A	1
	2B	1
	3A	1
	4	1
	TOTAL	5

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STAGE	628.1910 EACH
0010	PRE-1	1
	2A	1
	2B	1
	3A	1
	4	1
	TOTAL	5

ADJUSTING MANHOLE COVERS

CATEGORY	STATION	LOCATION	611.8110 EACH
0010	54+42 WR	26.3' LT	1
	54+43 WR	6.5' LT	1
	58+25 WR	20.7' LT	1
	62+95 W	393.0' LT	1
	65+13 W	40.0' LT	1
	28+90 SH	4.2' LT	1
		TOTAL	6

CULVERT PIPE CONCRETE COLLAR

CATEGORY	STATION	LOCATION	520.8000.S EACH
0010	58+57 W	64.6' RT	1

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FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0120.01 WATER FOR SEEDED AREAS MGAL	SPV.0180.09 PREPARING TOPSOIL FOR LAWN TYPE TURF SY
0010	54+50 W - 70+00 W	LT & RT	6650	3000	1.9	66.8	106.2	89.9	2.3	83.2	3700
	26+50 SH - 32+50 SH	LT & RT	780	360	0.2	9.7	12.8	12.1	0.3	12.0	540
	UNDISTRIBUTED		---	840	0.5	19.1	29.8	25.5	0.7	---	---
		TOTALS	7430	4200	2.6	95.6	148.8	127.5	3.3	95.2	4240

EROSION MAT

CATEGORY	STATION - STATION	LOCATION	628.2006 EROSION MAT URBAN CLASS I TYPE A SY
0010	27+50 SH - 60+75 WR	LT	560.0
	55+00 WR - 57+77 WR	LT	195
	55+13 W - 57+88 W	MEDIAN	230
	55+25 W - 57+95 W	RT	160
	57+87 WR - 68+92 W	LT	595
	57+98 W - 67+13 W	MEDIAN	1510
	58+05 W - 62+92 W	RT	270
	63+08 W - 70+00 W	RT	385
	69+48 W - 70+00 W	MEDIAN	85
	69+54 W - 70+00 W	RT	25
	28+68 SH - 28+84 SH	LT	25
	30+18 SH - 35+72 SH	MEDIAN	950
	30+36 SH - 33+00 SH	LT	205
	30+88 SH - 33+00 SH	RT	120
	UNDISTRIBUTED		1300
		TOTAL	6615

PAVEMENT MARKING RAILROAD CROSSING EPOXY

CATEGORY	FROM STATION	TO STATION	LOCATION	647.0110 RAILROAD CROSSINGS EPOXY EACH
0010	56+16 W	56+73 W	RT	1
	60+07 W	60+70 W	LT	1
			TOTAL	2

INLET PROTECTION

CATEGORY	STRUCTURE NO.	628.7005 TYPE A EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	900A	1	1	---
	900B	1	---	---
	900C	1	---	1
	900D	1	---	1
	905A	1	---	---
	905B	1	1	---
	905C	1	1	---
	905D	1	1	---
	910A	1	---	---
	910B	1	---	1
	910C	1	---	1
	910D	1	---	1
	910E	1	---	1
	910F	1	---	1
	910G	1	---	1
	910H	1	---	1
	910J	1	---	1
	910K	1	---	---
	915A	1	1	---
	915B	1	1	---
	915C	1	1	---
	915D	1	1	---
	920A	1	1	---
	920B	1	1	---
	920C	1	1	---
	920D	1	1	---
	925A	1	1	---
	925B	1	1	---
	925C	1	1	---
	925D	1	1	---
	930A	1	1	---
	930B	1	1	---
	930C	1	1	---
	930D	1	1	---
	985A	1	---	1
	985B	1	---	1
	985C	1	---	1
	985D	1	---	1
	985E	1	---	1
	STA. 35+86 SH	---	3	---
	STA. 36+52 SH	---	1	---
	STA. 51+45 W	---	1	---
	STA. 51+64 W	---	1	---
	STA. 51+83 W	---	4	---
	STA. 52+03 W	---	2	---
	STA. 52+08 W	---	1	---
	TOTALS	39	33	15

REMOVING PAVEMENT MARKINGS

CATEGORY	STATION - STATION	LOCATION	STAGE	646.0600 REMOVING PAVEMENT MARKINGS LF	647.0955 REMOVING PAVEMENT MARKING ARROWS EACH	647.0965 REMOVING PAVEMENT MARKING WORDS EACH
0010	52+39 WR - 53+42 WR	LT	2A	103	---	---
	51+46 WR	RT	2A	---	1	---
	51+95 WR	RT	2A	---	---	1
	52+42 WR	RT	2A	---	1	---
	54+80 WR	LT	2A	30	---	---
	55+40 WR	LT	2A	---	2	---
	55+80 WR	LT	2A	---	1	1
	56+20 WR	LT	2A	---	2	---
	56+60 WR - 58+31 WR	LT	2A	171	---	---
		RT	2A	30	---	---
	28+75 SH				---	---
		TOTALS STAGE 2A		334	7	2
		LT	2B	80	---	---
	24+68 SH - 25+35 SH	TOTALS STAGE		80	0	0
		RT	3A	---	1	1
	53+50 W	RT	3A	---	1	1
	53+75 W					
		TOTALS 3A		0	2	2
		TOTALS		414	9	4

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PERMANENT SIGNING QUANTITIES

CATEGORY	SIGN NO.	APPROX. STATION		LOCATION	SIGN CODE	SIGN MESSAGE	(1) SIGN SIZE (W x H) IN	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH 14-FOOT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FOOT EACH	634.0618 POSTS WOOD 4X6-INCH 18-FOOT EACH	634.0808 POSTS TUBULAR STEEL 2x2-INCH x 8-FT EACH	REMARKS
0010	4100	60+68	W	LT	W10-1	RAILROAD CROSSING	36 x 36	9.00	---	1	---	---	
	4101	60+68	W	LT	W10-1	RAILROAD CROSSING	36 x 36	9.00	---	1	---	---	
	4106	58+73	W	RT	R2-1	SPEED LIMIT 25	24 x 30	5.00	1	---	---	---	
	4107	56+17	W	RT	W10-1	RAILROAD CROSSING	36 x 36	9.00	---	1	---	---	
	4108	56+17	W	LT	W10-1	RAILROAD CROSSING	36 x 36	9.00	---	1	---	---	
	4109	53+62	W	LT	J3-3	DIRECTIONAL ASSEMBLY	72 x 69	29.20	---	---	2	---	M4-5(2); M3-3, M3-2; M1-4, M1-6, M1-5A; M6-1(3)
	4111	31+37	SH	RT	J1-2	ROUTE TURN ASSEMBLY	48 x 51	16.40	---	2	---	---	M2-1(2); M3-3, M3-2; M1-4, M1-6
	4112	31+37	SH	RT	R2-1	SPEED LIMIT 25	24 x 30	5.00	1	---	---	---	
	4113	32+71	SH	RT	D1-2	STEVENS POINT/GREEN BAY RIGHT ARROW	60 x 21	8.75	2	---	---	---	
	4114	27+48	SH	LT	W8-6	TRUCK CROSSING	30 x 30	6.25	---	1	---	---	
	4115	28+21	SH	LT	R2-1	SPEED LIMIT 25	24 x 30	5.00	1	---	---	---	
	4120	55+16	W	LT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	---	MOUNT ON SIGNAL POLE
	4127	56+67	W	RT	J4-1	REASSURANCE ASSEMBLY	24 x 24	4.00	1	---	---	---	M1-5A
	4128	55+20	W	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	---	---	MOUNT ON SIGNAL POLE
	4130	30+21	SH	LT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	---	MOUNT ON SIGNAL POLE
	4131	30+21	SH	LT	J3-1	DIRECTIONAL ASSEMBLY	24 x 45	7.06	---	---	---	---	MOUNT ON SIGNAL POLE, M1-5A, M6-4
	4135	30+21	SH	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	---	---	
	4604	28+39	SH	RT	J3-1	DIRECTIONAL ASSEMBLY	24 x 45	7.06	---	1	---	---	M1-5A, M6-4
	4601	30+57	SH	LT	W12-1D	DOUBLE DOWN ARROW	24 x 24	4.00	---	---	---	1	
	4680	32+40	SH	LT	D9-2	HOSPITAL	24 x 24	4.00	1	---	---	---	
		32+40	SH	LT	M6-1	RIGHT ARROW	21 x 21	3.06	---	---	---	---	SAME POST AS 4680
	4600	53+54	W	RT	J3-3	DIRECTIONAL ASSEMBLY	72 x 69	29.20	---	---	2	---	M4-5(2); M3-3, M3-2; M1-4, M1-6, M1-5A; M6-1(3)
	4619	68+70	W	LT	R4-7	KEEP RIGHT	24 x 30	5.00	1	---	---	---	
	4620	69+63	W	LT	R4-7	KEEP RIGHT	24 x 30	5.00	1	---	---	---	
	4708	34+50	SH	LT	R3-8W	LEFT ONLY/STRAIGHT ONLY/RIGHT ONLY ARROW	54 x 30	11.30	1	---	---	---	
	4709	34+50	SH	RT	R3-8W	LEFT ONLY/STRAIGHT ONLY/RIGHT ONLY ARROW	54 x 30	11.30	1	---	---	---	
	4663	68+98	W	LT	R1-1	STOP	30 x 30	6.25	1	---	---	---	
	4750	53+78	W	LT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	---	---	MOUNT ON SIGNAL POLE
	4800	59+93	W	LT	R3-7S	2 LEFT LANES MUST TURN LEFT	48 X 30	10.00	1	---	---	---	
	4801	65+93	W	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	24 X 30	5.00	1	---	---	---	
							TOTALS	251.33	14	8	4	1	

TRAFFIC CONTROL

CATEGORY	DURATION	643.0420 TYPE III BARRICADES EACH	DAYS*	643.0705 WARNING LIGHTS TYPE A EACH	DAYS*
0010	14	2	28	4	56
	TOTAL		28		56

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

TRAFFIC CONTROL DETOUR SIGNS

CATEGORY	DURATION	CODE	MESSAGE	SIZE	EACH	643.3000 DAYS
0010	14	I3-1	28TH AVE	30" x 12"	16	224
		I3-1	STEWART AVE	30" x 9"	14	196
		M4-8	DETOUR	24" x 12"	50	700
		M4-8A	END DETOUR	24" x 18"	4	56
		M4-9L	DETOUR SIGN WITH LT ARROW	30" x 24"	5	70
		M4-9R	DETOUR SIGN WITH RT ARROW	30" x 24"	5	70
		M05-1L	ADVANCE LT TURN ARROW	21" x 21"	5	70
		M05-1R	ADVANCE RT TURN ARROW	21" x 21"	5	70
		M06-1	AHEAD ARROW	21" x 21"	13	182
		R11-2	ROAD CLOSED	48" X 30"	2	28
		W20-2	DETOUR AHEAD	48" x 48"	3	42
					TOTAL	1708

TRAFFIC CONTROL DETOUR

CATEGORY	PROJECT	643.2000.01 EACH
0010	1166-09-79	1

				PAVEMENT MARKING												
				646.0106 PAVEMENT MARKING EPOXY 4-INCH					646.0126 EPOXY 8-INCH (WHITE)	647.0166 ARROWS EPOXY TYPE 2	647.0356 WORDS EPOXY	647.0456 PAVEMENT MARKING CURB EPOXY	647.0566 STOP LINE EPOXY 18-INCH	647.0606 PAVEMENT MARKING ISLAND NOSE	647.0726 DIAGONAL EPOXY 12-INCH	647.0766 CROSSWALK EPOXY 6-INCH
CATEGORY	FROM STATION	TO STATION	LOCATION	LANE LINE (WHITE) LF	EDGE LINE (WHITE) LF	6' SPACE-3'DASH (WHITE) LF	EDGE LINE (YELLOW) LF	6' SPACE-3'DASH (YELLOW) LF	LF	EACH	EACH	LF	LF	EACH	LF	LF
0010	WEST ARTERIAL		RT & LT	430	---	---	---	---	260	4	3	---	---	---	---	---
	26+26 SH	28+57 SH	RT	---	232	---	---	---	---	---	---	---	---	---	---	---
	26+26 SH	28+68 SH	LT	---	245	---	---	---	---	---	---	---	---	---	---	---
	24+51 SH	28+65 SH	LT	---	---	---	917	---	---	---	---	---	---	---	---	---
	26+26 SH	27+41 SH	LT	---	---	38	---	---	---	---	---	---	---	---	---	---
	27+41 SH	28+77 SH	RT	---	---	---	---	---	120	---	---	---	---	---	---	---
	27+35 SH	28+65 SH	LT	---	---	---	---	---	---	---	---	---	---	---	38	---
	28+07 SH		RT	---	---	---	---	---	---	---	1	---	---	---	---	---
	28+37 SH	28+61 SH	RT	12	---	---	---	---	---	---	---	---	---	---	---	---
	28+47 SH		RT	---	---	---	---	---	---	1	---	---	---	---	---	---
	28+62 SH		RT & LT	---	---	---	---	---	---	---	---	---	44	---	---	---
	53+83 W		RT & LT	---	---	---	---	---	---	---	---	---	---	---	---	188
	53+92 W		LT	---	---	---	---	---	---	---	---	21	---	1	---	---
	28+98 SH	30+10 SH	RT	---	---	---	---	---	---	---	---	---	---	---	---	219
	30+33 SH	36+02 SH	RT	142	---	---	---	---	---	---	---	---	---	---	---	---
	30+24 SH		LT	---	---	---	---	---	---	---	---	---	28	---	---	---
	30+36 SH		LT	---	---	---	---	---	---	---	---	---	19	---	---	---
	30+48 SH		LT	---	---	---	---	---	---	1	---	---	---	---	---	---
	30+57 SH		LT	---	---	---	---	---	---	1	---	---	---	---	---	---
	30+88 SH		LT	---	---	---	---	---	---	---	1	---	---	---	---	---
	30+98 SH		LT	---	---	---	---	---	---	---	1	---	---	---	---	---
	30+24 SH	34+56 SH	LT	---	---	---	---	---	432	---	---	---	---	---	---	---
	29+95 SH		LT	---	---	---	---	---	---	---	---	28	---	2	---	---
	30+04 SH		MED.	---	---	---	---	---	---	---	---	45	---	1	---	---
	30+58 SH		LT	---	---	---	---	---	---	---	---	16	---	1	---	---
	30+24 SH	32+03 SH	LT	---	---	---	---	---	178	---	---	---	---	---	---	---
	30+52 SH	34+56 SH	LT	---	---	---	---	---	411	---	---	---	---	---	---	---
	33+92 SH		LT	---	---	---	---	---	---	2	---	---	---	---	---	---
	34+33 SH		LT	---	---	---	---	---	---	---	2	---	---	---	---	---
	34+56 SH	38+83 SH	LT	94	---	---	---	---	---	---	---	---	---	---	---	---
	53+20 W		RT	---	---	---	---	---	---	---	1	---	---	---	---	---
	53+23 W	53+80 W	R.L.	---	---	---	---	---	60	---	---	---	---	---	---	---
	53+22 W	53+80 W	RT	15	---	---	---	---	---	---	---	---	---	---	---	---
	53+26 W	53+87 W	LT	15	---	---	---	---	---	---	---	---	---	---	---	---
	53+56 W		RT	---	---	---	---	---	---	1	---	---	---	---	---	---
	53+74 W		RT & LT	---	---	---	---	---	---	---	---	---	58	---	---	---
	53+34 W		LT	---	---	---	---	---	---	---	1	---	---	---	---	---
	53+63 W		LT	---	---	---	---	---	---	1	---	---	---	---	---	---
	53+22 W	53+74 W	LT	---	---	---	---	---	53	---	---	---	---	---	---	---
	53+02 W	53+74 W	RT	---	---	---	---	---	73	---	---	---	---	---	---	---
	53+94 W	54+52 W	LT	---	---	---	---	26	---	---	---	---	---	---	---	---
	54+29 W	55+17 W	RT & LT	---	---	43	---	---	---	---	---	---	---	---	---	---
	53+95 W	54+98 W	LT	---	---	---	---	---	---	---	---	---	---	---	---	191
	53+99 W	54+44 W	RT	---	---	---	---	---	---	---	---	---	---	---	---	85
	54+54 W	54+82 W	RT	---	---	---	---	---	---	---	---	---	---	---	---	56
	55+01 W	55+21 W	RT	---	---	---	---	---	---	---	---	---	---	---	---	41
	55+10 W		MED.	---	---	---	---	---	---	---	---	31	1	---	---	---
	55+18 WA		RT & LT	---	---	---	---	---	---	---	---	---	51	---	---	---
	55+03 W	56+17 W	RT	21	---	---	---	---	---	---	---	---	---	---	---	---
	55+20 WA	57+78 WA	LT	65	---	---	---	---	---	---	---	---	---	---	---	---
	55+20 WA	57+80 WA	R.L.	---	---	---	---	---	260	---	---	---	---	---	---	---
	55+20 WA	57+82 WA	RT	66	---	---	---	---	---	---	---	---	---	---	---	---
	55+44 WA		RT	---	---	---	---	---	---	2	---	---	---	---	---	---
	55+84 WA		RT	---	---	---	---	---	---	---	2	---	---	---	---	---
	57+20 WA		RT	---	---	---	---	---	---	2	---	---	---	---	---	---
	57+60 WA		RT	---	---	---	---	---	---	---	2	---	---	---	---	---
	56+73 W	57+89 W	RT	29	---	---	---	---	---	---	---	---	---	---	---	---
	57+88 WA		RT & LT	---	---	---	---	---	---	---	---	---	---	---	155	---
	57+97 WA	58+11 WA	R.L.	---	---	---	---	---	14	---	---	---	---	---	---	---
	57+99 WA	58+12 WA	RT	12	---	---	---	---	---	---	---	---	---	---	---	---
	57+95 WA	60+07 WA	LT	55	---	---	---	---	---	---	---	---	---	---	---	---
	58+06 W	70+00 W	RT	288	---	---	---	---	---	---	---	---	---	---	---	---
	60+71 W	70+00 W	LT	232	---	---	---	---	---	---	---	---	---	---	---	---
	68+95 W	69+51 W	LT	---	---	---	---	---	---	---	---	---	---	---	---	96
	67+13 W	68+74 W	R.L.	---	---	---	---	---	160	---	---	---	---	---	---	---
	68+78 W		LT	---	---	---	---	---	---	---	---	21	---	1	---	---
	69+45 W		LT	---	---	---	---	---	---	---	---	17	---	1	---	---
		TOTAL		1476	477	81	917	26	2021	15	14	179	201	7	193	876
				2977												

TRAFFIC CONTROL SUMMARY

CATEGORY	STAGE	DURATION DAYS	LOCATION	643.0300 DRUMS EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES, TYPE III EACH	643.0420 BARRICADES, TYPE III DAYS*	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 WARNING LIGHTS TYPE A EACH	643.0705 WARNING LIGHTS TYPE A DAYS*	643.0715 WARNING LIGHTS TYPE C EACH	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS EACH	643.0800 ARROW BOARDS DAYS	643.0900 SIGNS EACH	643.0900 SIGNS DAYS	643.1050.S SIGNS PORTABLE CHANGEABLE MESSAGE EACH	643.1050.S SIGNS PORTABLE CHANGEABLE MESSAGE DAYS
0010	1	41	ADVANCE WARNING	0	0	0	0	0	0	0	0	0	0	0	0	18	738	0	0
			28TH AVENUE	15	615	1	41	0	0	2	82	0	0	0	0	1	41	2	28
			SHERMAN STREET	13	533	0	0	0	0	0	0	4	164	1	41	0	0	0	0
			STAGE 1 TOTALS		1148		41	0	0		82		164		41		779		28
	2A	43	ADVANCE WARNING	0	0	0	0	0	0	0	0	0	0	2	86	16	688	0	0
			28TH AVENUE	78	3354	12	516	66	66	20	860	0	0	0	0	7	301	2	86
			SHERMAN STREET	133	5719	20	860	64	64	40	1720	39	1677	4	172	1	43	2	86
		14	28TH AVENUE CLOSURE	44	616	14	196	0	0	28	392	0	0	0	0	1	14	0	0
			TOTALS STAGE 2A		9689		1572	130	130		2972		1677		258		1046		172
	2B	39	ADVANCE WARNING	0	0	0	0	0	0	0	0	0	0	1	39	17	663	0	0
			28TH AVENUE	65	2535	15	585	98	98	28	1092	0	0	0	0	10	390	0	0
			SHERMAN STREET	53	2067	9	351	31	31	12	468	16	624	2	78	5	195	0	0
			TOTALS STAGE 2B		4602		936	129	129		1560		624		117		1248		0
	3A	39	ADVANCE WARNING	0	0	0	0	0	0	0	0	0	0	0	0	18	702	0	0
			28TH AVENUE	73	2847	10	390	56	56	22	858	8	312	0	0	11	429	0	0
			SHERMAN STREET	52	2028	4	156	29	29	8	312	14	546	1	39	6	234	0	0
			TOTALS STAGE 3A		4875		546	85	85		1170		858		39		1365		0
	3B	23	ADVANCE WARNING	0	0	0	0	0	0	0	0	0	0	0	0	18	414	0	0
			28TH AVENUE	69	1587	15	345	56	56	32	736	7	161	0	0	11	253	0	0
			SHERMAN STREET	41	943	5	115	26	26	10	230	10	230	0	0	6	138	0	0
			TOTALS STAGE 3B		2530		460	82	82		966		391		0		805		0
	4	7	ADVANCE WARNING	0	0	0	0	0	0	0	0	0	0	0	0	18	126	0	0
			28TH AVENUE	108	756	9	63	0	0	20	140	0	0	0	0	9	63	0	0
			SHERMAN STREET	28	196	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			TOTALS STAGE 4		952		63	0	0		140		0		0		189		0
			UNDISTRIBUTED		0		0	25	25		0		0		0		0		0
			TOTALS		23796		3618	451	451		6890		3714		455		5432		200

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE

CATEGORY	PROJECT I.D.	643.0200 DAYS
0010	1166-09-79	192

REMOVING STRUCTURAL STEEL SIGN SUPPORTS

CATEGORY	LOCATION	638.3100 EACH
0010	56+26 W	1

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CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF
0010	51+50 W - 70+00 W	RT	1850	1850
	51+50 W - 70+00 W	LT	1850	1850
	55+67 W - 57+08 W	RT	141	141
	25+00 SH - 30+00 SH	LT & RT	500	500
	25+14 SH - 28+49 SH	RT	335	335
	30+00 SH - 35+75 SH	RT	575	575
	30+00 SH - 35+75 SH	LT	575	575
		TOTALS	5826	5826

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

CATEGORY	PROJECT	650.8500 L.S.
0010	1166-09-79	1

CONDUIT RIGID NON-METALLIC, LIGHTING SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*
0020	LP-4	LP-5	125
	LP-5	PB-101	100
	END	PB-101	5
	PB-101	PB-102	120
	END	PB-102	5
	PB-102	PB-103	140
	END	PB-103	5
	PB-103	LP-13	80
	LP-13	PB-104	20
	PB-104	PB-105	40
	PB-105	LC-1	90
	PB-104	LP-14	155
	LP-14	LP-15	175
	LP-15	LP-16	160
	LP-16	70+00 W	20
		TOTALS	1240

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CONDUIT RIGID NON-METALLIC SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	652.0110 CONDUIT RIGID METALLIC 1-INCH LF	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH LF	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*	652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	REMARKS
0010	SHERMAN/28TH							
	EXIST COND	PB8	---	---	---	---	162	
	PB8	SB2	---	---	5	---	---	
	PB8	SB3	---	---	15	---	---	
	PB8	PB9	---	---	---	---	110	
	PB9	SB4	---	---	22	---	---	
	PB9	PB12	---	---	154	---	---	
	PB9	EXPB13	---	---	166	---	---	
	PB12	PB71	---	---	63	---	---	
	PB71	PB15	---	---	71	---	---	
	PB12	PB14	---	---	67	---	---	
	EXPB17	PB16	---	---	65	---	---	
	PB16	FB1	---	---	9	---	---	
	PB9	PB10	---	---	---	---	124	
	PB10	SB6	---	---	14	---	---	
	PB10	SB7	---	---	44	---	---	
	PB10	PB11	---	---	82	---	---	
	PB11	LP2	---	---	5	---	---	
	PB11	LP3	---	---	134	---	---	
	PB10	SB5	---	---	19	---	---	
	PB10	PB18	---	---	---	---	100	
	PB18	SB8	---	---	5	---	---	
	PB18	PB19	---	---	---	---	92	
	PB19	SB9	---	---	20	---	---	
	PB19	PB20	---	---	---	---	58	
	PB20	SB10	---	---	13	---	---	
	PB20	PB24	---	---	190	---	---	
	PB19	PB21	---	---	---	---	82	
	PB21	SB11	---	---	36	---	---	
	PB21	PB23	---	---	185	---	---	
	PB21	PB22	---	---	121	---	---	
	PB22	LP59	---	---	5	---	---	
	PB22	LP60	---	---	155	---	---	
	PB21	EXPB6	---	---	---	---	92	
	EXPB6	SB13	---	---	25	---	---	
	EXPB52	SB35	---	---	25	---	---	
	EXPB1	PB72	---	---	15	---	---	
	PB72	PB7	---	---	200	---	---	
	PB4	EXSB-15	---	---	12	---	---	
			---	---				
	INTERCONNECT		---	---				
	EXPB1	PB52	---	---	93	---	---	
	PB52	PB53	---	---	145	---	---	
	PB53	PB54	---	---	47	---	---	
	PB54	33+00 SH	---	---	273	---	---	
	PB52	PB55	---	---	284	---	---	
	PB55	PB56	---	---	---	43	---	SCHEDULE 80
	PB56	PB57	---	---	179	---	---	
	PB57	PB58	---	---	200	---	---	
	PB58	PB59	---	---	201	---	---	
	PB59	PB60	---	---	200	---	---	
	PB60	PB61	---	---	201	---	---	
	PB61	PB62	---	---	201	---	---	
	PB62	70+00 W	---	---	9.5	---	---	
	PB55	PB55A	---	---	103	---	---	
	PB55A	RR CABINET	10	15		---	---	
		TOTALS	10	15	4079	43	820	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

TRAFFIC SIGNAL CONTROLLER FULLY ACTUATED 8-PHASE

CATEGORY	LOCATION	651.3050.S EACH
0010	SHERMAN & 28TH AVE	1

LOOP DETECTOR INSTALLATION

CATEGORY	LOOP NO.	STATION	LOCATION	SIZE FT x FT	NO. OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
0010	SHERMAN/28TH							
	EX11	53+54.2 W	7.3' LT	6X20	---	---	144	---
	EX12	53+85.6 W	8.2' LT	6X20	---	---	144	---
	21	57+62.6 W	42.3' LT	6X6	5	68	413	176
	22	57+63.3 W	55.3' LT	6X6	5	44	413	152
	23	55+12.9 SH	40.0' LT	6X20	3	100	171	216
	24	55+12.5 SH	50.7' LT	6X20	3	78	171	194
	31	32+43.9 SH	24.1' LT	6X6	6	44	549	176
	32	30+50.7 SH	19.8' LT	6X20	3	72	317	188
	33	30+21.9 SH	19.3' LT	6X20	3	72	317	188
	41	26+41.3 SH	2.8' RT	6X6	4	44	222	128
	42	28+65.5 SH	6.4' RT	6X20	3	100	16	216
	43	28+65.2 SH	20.4' RT	6X20	3	72	16	188
	51	57+63.5 W	18.3' LT	6X6	6	38	486	170
	52	57+62.7 W	30.3' LT	6X6	6	66	486	198
	53	55+42.7 W	16.4' LT	6X20	3	68	248	184
	54	55+42.4 W	28.4' LT	6X20	3	100	248	216
	55	55+13.8 W	15.6' LT	6X20	3	68	248	184
	56	55+13.4 W	27.6' LT	6X20	3	100	248	216
	EX61	51+48.2 W	14.5' RT	6X20	---	---	452	---
	EX62	53+86.1 W	3.8' RT	6X20	---	---	144	---
	EX63	53+86.3 W	15.8' RT	6X20	---	---	222	---
	EX64	53+87.9 W	37.5' RT	6X20	---	---	222	---
	71	28+36.3 SH	6.4' LT	6X20	3	126	16	242
	72	28+65.5 SH	5.8' LT	6X20	3	122	16	238
	81	32+43.9 SH	36.1' LT	6X6	6	68	623	200
	82	30+22.0 SH	33.0' LT	6X20	3	76	364	192
	OLA-1	32+43.9 SH	48.1' LT	6X6	6	48	623	180
	OLA-2	30+30.6 SH	67.3' LT	6X20	3	70	364	186
	OC1	56+93.6 W	19.0' LT	6X6	5	44	409	152
	OC2	56+93.3 W	31.0' LT	6X6	5	68	409	176
	OC3	56+94.1 W	43.0' LT	6X6	5	68	340	176
	OC4	56+94.2 W	56.0' LT	6X6	5	44	340	152
					TOTALS	1868	9401	4884

PULL BOXES

CATEGORY	PULL BOX NO.	STATION	LOCATION	653.0120 PULL BOXES STEEL 18X24-INCH EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH*
0010	SHERMAN/28TH				
	PB7	26+40.8 SH	12.8' RT	1	---
	PB8	28+64.2 SH	53.1' LT	---	1
	PB9	55+36.8 W	66.9' LT	---	1
	PB10	55+39.1 W	5.4' LT	---	1
	PB11	56+21.2 W	5.9' LT	1	---
	PB12	56+92.7 W	68.7' LT	---	1
	PB14	57+59.5 W	67.9' LT	1	---
	PB15	57+62.1 W	6.4' LT	1	---
	PB16	58+39.3 W	9.4' LT	---	1
	PB71	56+91.4 W	6.3' LT	---	1
	PB18	55+09.6 W	34.9' RT	---	1
	PB19	30+40.1 SH	47.9' LT	---	1
	PB20	30+53.1 SH	73.7' LT	---	1
	PB21	30+60.2 SH	8.0' LT	---	1
	PB22	31+80.7 SH	5.7' LT	1	---
	PB23	32+42.2 SH	12.4' LT	1	---
	PB24	32+41.2 SH	61.5' LT	1	---
	PB4	29+39.4 SH	72.7' RT	---	1
	PB72	28+39.5 SH	32.4' RT	1	---
	INTERCONNECT				
	PB52	54+89.4 W	106.3' LT	---	1
	PB53	54+91.0 W	44.3' RT	---	1
	PB54	30+30.4 SH	87.8' LT	---	1
	PB55	57+67.4 W	68.0' LT	---	1
	PB56	58+09.9 W	72.7' LT	---	1
	PB57	59+93.3 W	55.9' LT	1	---
	PB58	61+88.6 W	50.8' LT	1	---
	PB59	63+89.1 W	50.9' LT	1	---
	PB60	65+89.3 W	52.6' LT	1	---
	PB61	67+89.8 W	52.8' LT	1	---
	PB62	69+92.6 W	49.8' LT	1	---
	PB55A	57+73.2 W	33.8' RT	---	1
			TOTALS	14	17

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

LIGHTING PULL BOXES

CATEGORY	PULL BOX NO.	STATION	LOCATION	653.0140 PULL BOXES STEEL 24X42-INCH EACH*
0020	PB-101	61+40 W	10.0' LT	1
	PB-102	62+55 W	10.0' LT	1
	PB-103	63+90 W	10.0' LT	1
	PB-104	64+90 W	10.0' LT	1
	PB-105	64+90 W	52.0' LT	1
			TOTAL	5

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

BASES

CATEGORY	SIGNAL NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH
0010	SHERMAN/28TH				
	SB2	28+59.1 SH	48.9' LT	---	1
	SB3	28+79.8 SH	56.7' LT	---	1
	SB4	55+15.6 W	67.8' LT	1	---
	SB5	55+19.9 W	5.0' LT	1	---
	SB6	55+52.9 W	5.6' LT	1	---
	SB7	55+83.1 W	6.3' LT	1	---
	SB8	55+04.5 W	34.5' RT	---	1
	SB9	30+21.4 SH	52.0' LT	1	---
	SB10	30+41.1 SH	79.4' LT	---	1
	SB11	30+24.5 SH	7.3' LT	1	---
	SB13	30+28.8 SH	37.0' RT	1	---
	SB35	53+85.4 W	68.8' LT	1	---
	EXSB-15	53+77.8 W	19.7' LT	---	1
			TOTALS	8	5

STREET LIGHTING SUMMARY

CATEGORY	LP/SB *	STATION	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	657.0320 POLES TYPE 5 EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT EACH	659.0125 LUMINAIRES UTILITY HPS 250 WATTS EACH	659.0215 LUMINAIRES UNDERDECK 150 WATTS EACH	REMARKS
0020	SB-3	28+79 W	56.7'LT	---	---	1	---	1	--	SEE SIGNAL QUANTITIES
	SB-10	30+41 W	79.4'LT	---	---	1	---	1	--	SEE SIGNAL QUANTITIES
	LP-2	56+15 W	6.50'LT	1	1	---	2	2	---	
	LP-3	57+55 W	6.50'LT	1	1	---	2	2	---	
	LP-4	59+20 W	10.81'LT	1	1	---	2	2	---	
	LP-5	60+40 W	10.67'LT	1	1	---	2	2	---	
	LP-7	61+07 W	LT	---	---	---	---	---	1	
	LP-8	61+07 W	LT	---	---	---	---	---	1	
	LP-9	62+23 W	LT	---	---	---	---	---	1	
	LP-10	62+23 W	LT	---	---	---	---	---	1	
	LP-11	63+62 W	LT	---	---	---	---	---	1	
	LP-12	63+62 W	LT	---	---	---	---	---	1	
	LP-13	64+70 W	10.53'LT	1	1	---	2	2	---	
	LP-14	66+40 W	13.59'LT	1	1	---	2	2	---	
	LP-15	68+20 W	17.00'LT	1	1	---	2	2	---	
	LP-16	69+80 W	11.00'LT	1	1	---	2	2	---	
	LP-59	31+85 SH	8.6'LT	1	1	---	2	2	---	
	LP-60	33+35 SH	5.7'LT	1	1	---	2	2	---	
			TOTAL	10	10	2	20	22	6	

LIGHTING CONTROL CABINET SUMMARY

CATEGORY	CABINET NO.	STATION	LOCATION	654.0215 CONCRETE CONTROL CABINET BASES TYPE 9 EACH	SPV.0060.01 LIGHTING CONTROL CABINET EACH
0020	LC-1	64+90 W	72.4'LT	1	1

COMMUNICATION CABLE

CATEGORY	LOCATION FROM	LOCATION TO	655.0410 COMMUNICATION CABLE INSTALLED IN CONDUIT LF
0010	SHERMAN/28TH		
	CB-1	PB-55A	577

EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

CATEGORY	LOCATION FROM	LOCATION TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
0010	SHERMAN/28TH		
	CB-1	EXSB-1	27
	EXSB-1	SB-2	114
	SB-2	SB-3	26
	SB-3	SB-4	104
	SB-4	SB-7	140
	SB-7	SB-6	64
	SB-6	SB-5	39
	SB-5	LP-2	119
	LP-2	LP-3	147
	LP-3	SB-8	288
	SB-8	SB-9	83
	SB-9	SB-10	74
	SB-10	SB-11	127
	SB-11	LP-59	176
	LP-59	LP-60	168
	LP-60	EXSB-12	353
	EXSB-12	SB-13	39
	SB-13	EXSB-14	88
	EXSB-14	EXSB-15	103
	EXSB-15	EXSB-16	81
	EXSB-16	SB35	98
	SB35	CB-1	75
	EXSB-1	EXPB-1	27
	SB-2	PB-8	11
	SB-4	PB-9	28
	SB-6	PB-10	20
	LP-2	PB-11	12
	SB-8	PB-18	11
	SB-9	PB-19	26
	SB-10	PB-20	19
	SB-11	PB-21	32
	LP-59	PB-22	11
	EXSB-12	EXPB-6	14
	EXSB-14	EXPB-5	12
	EXSB-15	PB-4	19
	EXSB-16	EXPB-3	22
	SB-35	EXPB-52	32
	EXFB-2	EXPB-17	13
	FB-1	PB-16	15
		TOTALS	2857

3

TRAFFIC SIGNAL CABLE SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF	655.0290 CABLE TRAFFIC SIGNAL 21-14 AWG LF
0010	SHERMAN/28TH						
	CB-1	EXSB-1	---	---	---	42	---
	EXSB-1	PH2-2	12	---	---	---	---
	EXSB-1	PEDB2-2	5	---	---	---	---
	CB-1	EXSB-16	---	---	114	---	---
	CB-1	SB-2	---	---	---	---	130
	SB-2	8B	42	---	---	---	---
	SB-2	SB-3	---	---	26	---	---
	SB-3	PH2-1	12	---	---	---	---
	SB-3	PEDB2-1	5	---	---	---	---
	SB-2	SB-4	---	91	---	---	---
	SB-4	2A	15	---	---	---	---
	SB-4	PH8-2	12	---	---	---	---
	SB-4	PEDB8-2	5	---	---	---	---
	CB-1	SB-5	---	---	---	---	273
	SB-5	1B	17	---	---	---	---
	SB-5	5A	17	---	---	---	---
	SB-5	6C	17	---	---	---	---
	SB-5	SB-6	---	39	---	---	---
	SB-6	8E	15	---	---	---	---
	SB-5	SB-7	---	69	---	---	---
	SB-7	8F	15	---	---	---	---
	CB-1	SB-9	---	---	---	---	390
	SB-9	8A	15	---	---	---	---
	SB-9	PH6-2	12	---	---	---	---
	SB-9	PEDB6-2	5	---	---	---	---
	SB-9	PH6-3	12	---	---	---	---
	SB-9	PEDB6-3	5	---	---	---	---
	SB-9	SB-8	---	---	83	---	---
	SB-8	6B	37	---	---	---	---
	SB-8	PH8-1	12	---	---	---	---
	SB-8	PEDB8-1	5	---	---	---	---
	CB-1	SB-10	---	---	398	---	---
	SB-10	8D	15	---	---	---	---
	SB-10	PH6-4	12	---	---	---	---
	SB-10	PEDB6-4	5	---	---	---	---
	CB-1	SB-11	---	349	---	---	---
	SB-11	4C	15	---	---	---	---
	SB-11	PEDB6-3	5	---	---	---	---
	CB-1	EXSB-14	---	---	---	---	228
	EXSB-14	PH4-2	12	---	---	---	---
	EXSB-14	PEDB4-2	5	---	---	---	---
	EXSB-14	SB-13	---	---	88	---	---
	SB-13	PH6-1	12	---	---	---	---
	SB-13	PEDB6-1	5	---	---	---	---
	EXSB-14	EXSB-12	---	---	71	---	---
	EXSB-12	4B	15	---	---	---	---
	CB-1	EXSB-15	---	---	---	157	---
	EXSB-15	1A	17	---	---	---	---
	EXSB-15	2C	17	---	---	---	---
	EXSB-15	5B	17	---	---	---	---
	CB-1	SB-35	---	65	---	---	---
	SB-35	PH4-1	12	---	---	---	---
	SB-35	PEDB4-1	5	---	---	---	---
	CB-1	EXFB-2	480	---	---	---	---
	EXFB-2	A	12	---	---	---	---
	EXFB-2	FB-1	93	---	---	---	---
	FB-1	B	12	---	---	---	---
		TOTALS	1058	613	780	199	1021

ELECTRICAL WIRE, LIGHTING

CATEGORY	LOCATION FROM	LOCATION TO	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0625 ~~655.0615~~ ELECTRICAL WIRE LIGHTING ~~10 AWG~~ 6 AWG LF	~~655.0620 ELECTRICAL WIRE LIGHTING 8 AWG~~ LF
0020	SHERMAN/28TH					
	CB-1	EXSB-1	47	---	---	---
		POLE	---	138	---	---
	EXSB-1	SB-3	149	---	---	---
		POLE	---	138	---	---
	CB-1	EXSB-15	168	---	---	---
		POLE	---	276	---	---
	CB-1	LP-2	---	---	~~380~~ 1140	~~760~~
		POLE	---	276	---	---
	LP-2	~~LP-3~~ SB - 3	---	---	~~156~~ 468	~~312~~
		POLE	---	276	---	---
	LP-2	SB-10	---	---	~~280~~ 840	~~560~~
		POLE	---	138	---	---
	CB-1	EXSB-12	---	---	~~320~~ 960	~~640~~
		POLE	---	138	---	---
	EXSB-12	LP-59	---	---	~~218~~ 654	~~436~~
		POLE	---	276	---	---
	LP-59	LP-60	---	---	~~181~~ 543	~~362~~
		POLE	---	276	---	---
	LC-1, CIRCUIT 1					
	LC-1	LP-13	---	138	368	---
	LP-13	LP-12	---	---	581	---
	LP-12	LP-9	---	---	~~1062~~ 637	---
	LP-9	LP-8	---	---	~~1487~~ 892	---
	LP-8	LP-5	---	138	~~875~~ 525	---
	LP-5	LP-4	---	138	~~905~~ 541	---
	LC-1, CIRCUIT 3					
	LC-1	LP-13	---	138	368	---
	LP-13	LP-11	---	---	581	---
	LP-11	LP-10	---	---	~~1062~~ 637	---
	LP-10	LP-7	---	---	~~1487~~ 892	---
	LP-7	LP-5	---	138	~~875~~ 525	---
	LP-5	LP-4	---	138	~~905~~ 541	---
	LC-1, CIRCUIT 2					
	LC-1	LP-14	---	138	~~1593~~ 955	---
	LP-14	LP-15	---	138	~~870~~ 522	---
	LP-15	LP-16	---	138	~~800~~ 480	---
	LP-16	70+00 W	---	---	~~100~~ 60	---
	LC-1, CIRCUIT 4					
	LC-1	LP-14	---	138	~~1593~~ 955	---
	LP-14	LP-15	---	138	~~870~~ 522	---
	LP-15	LP-16	---	138	~~800~~ 480	---
	LP-16	70+00 W	---	---	~~100~~ 60	---
		TOTALS	364	3588	~~18817~~	~~3070~~

3

INTERSECTION PEDESTAL BASES, TRANSFORMER BASES, TRAFFIC SIGNAL STANDARDS, POLES AND TROMBONE ARMS

CATEGORY	SIGNAL NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES STANDARD 11 1/2-INCH BOLT CIRCLE EACH	657.0395.S.01 POLES TYPE 2 EACH	657.0315 POLES TYPE 4 EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0595.S.01 TROMBONE ARMS 15-FOOT EACH	657.0595.S.02 TROMBONE ARMS 20-FOOT EACH	SPV.0060.07 FOLDING ALUMINUM STOP SIGNS 36X36-INCH REFLECTIVE TYPE II EACH	REMARKS
0010												
	SHERMAN/28TH											
	EXSB1	---	---	---	---	---	---	---	---	---	1	SIGN NO. 4712
	EXSB15	---	---	---	---	---	---	---	---	---	1	SIGN NO. 4713
	EXSB14	---	---	---	---	---	---	---	---	---	1	SIGN NO. 4714
	SB2	---	1	1	---	---	---	---	---	1	---	
	SB3	---	1	---	1	---	---	---	---	---	---	
	SB4	1	---	---	---	---	1	---	---	---	1	SIGN NO. 4118
	SB5	1	---	---	---	---	---	1	---	---	1	SIGN NO. 4119
	SB6	1	---	---	---	---	1	---	---	---	---	
	SB7	1	---	---	---	---	1	---	---	---	---	
	SB8	---	1	1	---	---	---	---	1	---	---	
	SB9	1	---	---	---	---	1	---	---	---	1	SIGN NO. 4132
	SB10	---	1	---	1	---	---	---	---	---	1	SIGN NO. 4602
	SB11	1	---	---	---	---	1	---	---	---	1	SIGN NO. 4133
	SB13	1	---	---	---	1	1	---	---	---	---	
	SB35	---	---	---	---	1	---	---	---	---	---	
	TOTALS	7	4	2	2	2	6	1	1	1	8	

TRAFFIC SIGNAL FACES SUMMARY

CATEGORY	LOCATION SIGNAL BASE NO.	HEAD NO.	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0155 TRAFFIC SIGNAL FACE 3-12 INCH HORIZONTAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
0010	SHERMAN/28TH							
	EXSB1	4A,8C,PH2-2	---	---	---	---	1	1
	EXSB15	1A,2C,5B	3	---	3	---	---	---
	SB2	8B	---	1	1	---	---	---
	SB3	PH2-1	---	---	---	---	1	1
	SB4	2A,PH8-2	1	---	1	---	1	1
	SB5	1B,5A,6C	3	---	3	---	---	---
	SB6	8E	1	---	---	1	---	---
	SB7	8F	1	---	---	1	---	---
	SB8	6B,PH8-1	---	1	1	---	---	1
	SB9	8A,PH6-2,PH6-3	1	---	1	---	2	1
	SB10	8D,PH6-4	1	---	---	1	1	1
	SB11	4C	1	---	1	---	---	1
	SB13	PH6-1	---	---	---	---	1	1
	SB35	PH4-1	---	---	---	---	1	1
	EXSB14	PH4-2	---	---	---	---	1	1
		TOTALS	12	2	11	3	9	10

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

CATEGORY	LOCATION	661.0200 LS
0010	SHERMAN & 28TH AVE	1

SAWING EXISTING PAVEMENT

CATEGORY	STATION - STATION	STAGE	LOCATION	690.0100 LF
0010	52+50 W - 53+90 W	1	LT	305
	25+50 SH - 28+50 SH	1	RT	585
		TOTAL STAGE 1		890
	25+15 SH - 28+85 SH	2A	LT	610
		TOTAL STAGE 2A		610
	25+60 SH - 28+50 SH	2B	RT	390
	33+00 SH	2B	RT	30
		TOTAL STAGE 2B		420
		TOTAL		1310

SAWING CONCRETE PAVEMENT FULL DEPTH

CATEGORY	STATION - STATION	STAGE	LOCATION	690.0200 LF
0010	54+45 W - 56+00 W	2A	RT	155
	56+00 W - 60+00 W	2A	RT	400
	29+56 SH - 33+00 SH	2A	RT	385
		TOTAL STAGE 1		940
	54+10 W - 54+45 W	2B	RT	35
	28+85 SH - 29+55 SH	2B	RT	180
		TOTAL STAGE 2A		215
		TOTAL		1155

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INSTALL PROPOSED CONDUIT INTO EXISTING ITEM

CATEGORY	LOCATION	STATION	LOCATION		SPV.0060.08 INSTALL PROPOSED CONDUIT INTO EXISTING ITEM EACH
0010	EXPB1	28+46.4 SH	44.7'	RT	1
	EXPB6	30+47.1 SH	35.7'	RT	1
	EXPB52	28+66.6 SH	57.4'	RT	1
	EXPB13	57+05.5 W	68.7'	LT	1
	EXPB-17	58+14.9 W	69.4'	LT	1
	EXPB100	33+00 SH	64.5'	LT	1
	CONDUIT BETWEEN EXPB1 AND PB8				1
			TOTAL		7

EXISTING SIGNING SUMMARY

CATEGORY	SIGN NO.	SIGN CODE	SIGN MESSAGE	MOVE OR REMOVE PRIOR TO STAGE	SIGN SIZE IN x IN	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
0010								
	702	R2-1	SPEED LIMITS (25 MPH)	2A	24 X 30	1	---	---
	701	W8-6	TRUCK CROSSING	2A	30 X 30	1	---	---
	703	R5-1	DO NOT ENTER	2A	30 X 30	---	1	1
	704	R4-7	KEEP RIGHT	2A	24 X 30	---	1	1
	710	---	HOSPITAL/ARROW	2A	24 X 24	2	---	---
	711	W10-1	RAILROAD CROSSING	2A	36 X 36	1	---	---
	712A	R3-5L	LANE CONTROL SYMBOL	2A	42 X 48	---	1	---
	712B	---	LANE CONTROL SYMBOL	2A	42 X 48	---	1	---
	800	R3-8N	LANE DESIGNATION	2A	30 X 48	---	1	2
	801	R3-55L	LEFT TURN LANE	2A	24 X 30	---	1	1
	713	R5-1A	WRONG WAY	2A	36 X 24	---	1	---
	802	R3-2	NO LEFT TURN	2A	24 X 24	---	1	1
	716	---	DIRECTIONAL ASSEMBLY	2A	---	---	4	1
	720	---	DIRECTIONAL ASSEMBLY	2A	---	---	4	1
					STAGE 2A SUBTOTALS	5	16	8
	701	W8-6	TRUCK CROSSING	2B	30 X 30	---	1	1
	702	R2-1	SPEED LIMIT (25 MPH)	2B	24 X 30	---	1	1
	710	---	HOSPITAL	2B	---	---	2	1
	859	D1-1	DIRECTIONAL SIGN (STEVENS POINT)	2B	---	1	---	---
					STAGE 2B SUBTOTALS	1	4	3
	711	W10-1	RAILROAD CROSSING	3A	36 X 36	---	1	1
	714	W3-1	STOP AHEAD	3A	36 X 36	---	1	1
	717	W10-1	RAILROAD CROSSING	3A	36 X 36	1	---	---
					STAGE 3A SUBTOTALS	1	2	2
	717	W10-1	RAILROAD CROSSING	4	36 X 36	---	1	1
					STAGE 4 SUBTOTALS	0	1	1
					TOTALS	7	23	14

REMOVE SALVAGE AND RELOCATE EXISTING SIGNAL EQUIPMENT

CATEGORY	STATION	LOCATION	SPV.0060.09 REMOVE SALVAGE AND RELOCATE EXISTING SIGNAL EQUIPMENT EACH
0010			
	53+77.9 W	19.6' LT	1
	58+31.0 W	5.9' LT	1
		TOTAL	2

REMOVING EXISTING CABLES

CATEGORY	LOCATION FROM		LOCATION TO	SPV.0090.01 LF
0010	EXISTING CONDUIT	-	EXPB-1	20
	EXSB-1	-	EXPB-1	20
	EXPB-1	-	EXPB-52	25
	EXPB-52	-	EXPB-3	45
	EXPB-3	-	EXSB-16	16
	EXPB-3	-	PB-4	40
	PB-4	-	EXPB-5	71
	EXPB-5	-	EXPB-6	48
	EXPB-5	-	EXSB-14	5
	EXPB-5	-	EXPB-25	230
			TOTAL	520

REMOVE AND SALVAGE TRAFFIC SIGNALS AND LIGHTING EQUIPMENT

CATEGORY	LOCATION	SPV.0105.01 LS
0010	SHERMAN & 28TH AVE	0.5

REMOVE AND INSTALL EXISTING QUEUE CUTTER CONTROLLER EQUIPMENT

CATEGORY	LOCATION	SPV.0105.08 LS
0010	28TH AVE.	1

3

TEMPORARY PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	STAGE	649.0100 4-INCH (YELLOW) L.F.	649.0100 4-INCH (WHITE) L.F.	649.0400 REMOVABLE TAPE 4-INCH (YELLOW) L.F.	649.0400 REMOVABLE TAPE 4-INCH (WHITE) L.F.	649.1100 STOP LINE 18-INCH L.F.	649.1200 STOP LINE 18-INCH REMOVABLE L.F.
0010	23+79 SH	-	24+84 SH	1	---	---	---	85	---	---
				STAGE 1 SUBTOTLAS	0	0	0	85	0	0
	WEST ARTERIAL			2A	---	---	1409	2334	---	---
	54+00 W				---	---	---	---	---	33
	54+34 W	-	55+14 W	2A	---	102	---	---	---	---
	54+66 W	-	55+05 W	2A	---	30	---	---	---	---
	54+76 W			2A	---	---	---	---	11	---
	54+96 W			2A	---	---	---	---	11	---
	54+76 W	-	56+58 W	2A	---	364	---	---	---	---
	54+96 W	-	68+87 W	2A	2782	---	---	---	---	---
	69+63 W	-	70+00 W	2A	74	---	---	---	---	---
	24+43 SH	-	25+94 SH	2A	---	---	302	---	---	---
	25+15 SH	-	25+94 SH	2A	---	---	---	158	---	---
	25+94 SH	-	28+75 SH	2A	562	---	---	---	---	---
	25+94 SH	-	28+45 SH	2A	---	251	---	---	---	---
	25+94 SH	-	28+67 SH	2A	---	273	---	---	---	---
	28+75 SH			2A	---	---	---	---	17	---
	29+86 SH			2A	---	---	---	---	12	---
	29+86 SH	-	33+02 SH	2A	632	---	---	---	---	---
	33+02 SH	-	34+64 SH	2A	---	---	162	---	---	---
	33+02 SH	-	35+86 SH	2A	---	---	290	---	---	---
	33+02 SH	-	38+82 SH	2A	---	---	---	587	---	---
				STAGE 2A SUBTOTAL	4050	1020	2163	3079	51	33
	52+48 W	-	54+32 W	2B	---	---	---	184	---	---
	53+30 W	-	54+32 W	2B	---	---	204	204	---	---
	53+61 W	-	54+43 W	2B	---	---	---	115	---	---
	54+32 W			2B	---	---	---	---	---	28
	54+32 W	-	54+52 W	2B	---	---	---	55	---	---
	54+66 W	-	55+12 W	2B	---	---	---	71	---	---
	54+77 W	-	55+24 W	2B	---	---	---	---	---	---
	55+12 W			2B	---	---	---	---	---	28
	55+12 W	-	56+68 W	2B	---	---	312	312	---	---
	24+53 SH	-	28+77 SH	2B	---	---	848	---	---	---
	24+70 SH	-	28+56 SH	2B	---	---	---	386	---	---
	24+70 SH	-	28+60 SH	2B	---	---	---	407	---	---
	29+76 SH	-	30+06 SH	2B	---	---	---	30	---	---
	29+81 SH			2B	---	---	---	---	---	12
	29+81 SH	-	38+83 SH	2B	---	---	---	902	---	---
	29+81 SH	-	33+00 SH	2B	---	---	638	---	---	---
	33+00 SH	-	35+76 SH	2B	---	---	276	---	---	---
	33+00 SH	-	35+52 SH	2B	---	---	252	---	---	---
	33+00 SH	-	36+15 SH	2B	---	---	---	315	---	---
				STAGE 2B SUBTOTAL	0	0	2530	2981	0	68

TEMPORARY PAVEMENT MARKING SUMMARY (CONT'D)

CATEGORY	STATION	TO	STATION	STAGE	649.0100 4-INCH (YELLOW) L.F.	649.0100 4-INCH (WHITE) L.F.	649.0400 REMOVABLE TAPE 4-INCH (YELLOW) L.F.	649.0400 REMOVABLE TAPE 4-INCH (WHITE) L.F.	649.1100 STOP LINE 18-INCH L.F.	649.1200 STOP LINE 18-INCH REMOVABLE L.F.
0010	WEST ARTERIAL			3A	---	---	508	3099	---	---
	54+42 W			3A	---	---	---	---	---	22
	54+74 W	-	55+13 W	3A	---	---	---	45	---	---
	54+83 W	-	55+12 W	3A	---	---	---	29	---	---
	54+86 W			3A	---	---	---	---	---	26
	54+86 W	-	56+20 W	3A	---	---	---	268	---	---
	54+86 W	-	68+63 W	3A	---	---	2754	---	---	---
	69+64 W	-	70+00 W	3A	---	---	72	---	---	---
	55+73 W	-	57+07 W	3A	---	---	---	134	---	---
	28+56 SH	-	29+61 SH	3A	---	---	---	128	---	---
	28+60 SH	-	29+52 SH	3A	---	---	150	---	---	---
	28+60 SH	-	29+35 SH	3A	---	---	75	---	---	---
	30+06 SH			3A	---	---	---	---	---	12
	30+06 SH	-	31+07 SH	3A	---	---	---	202	---	---
				STAGE 3A SUBTOTAL	0	0	3559	3905	0	60
	53+70 W	-	54+13 W	3B	---	---	---	67	---	---
	54+10 W			3B	---	---	---	---	---	44
	54+54 W			3B	---	---	---	---	---	22
	54+54 W	-	54+85 W	3B	---	---	62	---	---	---
	54+54 W	-	55+12 W	3B	---	---	---	58	---	---
	54+72 W	-	55+17 W	3B	---	---	---	45	---	---
	24+51 SH	-	29+04 SH	3B	---	---	906	---	---	---
	27+11 SH	-	29+04 SH	3B	---	---	---	346	---	---
	29+04 SH			3B	---	---	---	---	---	12
	30+08 SH			3B	---	---	---	---	---	15
	30+08 SH	-	33+64 SH	3B	---	---	650	---	---	---
	30+63 SH	-	35+86 SH	3B	---	---	---	523	---	---
	33+02 SH	-	35+86 SH	3B	---	---	284	---	---	---
	33+02 SH	-	36+82 SH	3B	---	---	---	380	---	---
				STAGE 3B SUBTOTAL	0	0	1902	1419	0	93
					4050	1020	10154	11469	51	254
				UNDISTRIBUTED	1300		5500		24	64
				TOTALS	6370		27123		75	318

REMOVING PAVEMENT

CATEGORY	STATION - STATION	STAGE	LOCATION	204.0100 SY
0010	70+00 W - 72+70 W	2	RT	1145
		STAGE 2 TOTAL		1145
	73+53 W - 76+44 W	2A	RT	1280
	35+00 ST - 39+40 ST	2A	LT	1600
	41+45 ST - 47+50 ST	2A	LT	1650
		STAGE 2A TOTAL		4530
	34+40 ST - 39+40 ST	2B	RT	1925
	40+35 ST - 47+50 ST	2B	RT	2865
		STAGE 2B TOTAL		4790
	70+00 W - 72+80 W	3	LT	855
	74+18 W - 76+74 W	3	LT	975
		STAGE 3 TOTAL		1830
	39+40 ST - 40+35 ST	3A	LT	500
		STAGE 3A TOTAL		500
	39+41 ST - 40+47 W	3B	LT	595
		STAGE 3B TOTAL		595
		TOTAL		13390

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	STAGE	LOCATION	204.0155 SY
0010	74+60 - 76+75 W	2A	RT	125
		TOTAL STAGE 1		125
	36+25 - 39+60 ST	2B	MED	210
	40+90 - 47+70 ST	2B	MED	360
		TOTAL STAGE 2B		570
	71+80 - 73+00	3	MED	70
	74+80 - 75+20 W	3	MED	25
		TOTAL STAGE 3		95
		TOTAL		790

REMOVING CONCRETE BASES

CATEGORY	STATION - STATION	LOCATION	204.0195 EACH
0010	72+69.3 W	56.2' LT	1
	72+91.3 W	30.1' RT	1
	72+92.7 W	15.3' LT	1
	73+96.1 W	4.9' LT	1
	74+27.3 W	37.5' LT	1
	39+48.4 ST	43.6' RT	1
	39+70.2 ST	2.62' LT	1
	39+88.8 ST	39.9' LT	1
	40+79.6 ST	48.3' RT	1
	41+23.9 ST	37.4' LT	1
		TOTAL	10

REMOVING MANHOLES AND INLETS

CATEGORY	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
0010	74+04 W	38.7' LT	1	---
	74+08 W	2.5' LT	---	1
	74+08 W	10.5' LT	---	1
	74+12 W	46.8' LT	---	1
	74+59 W	22.5' RT	---	1
	34+50 ST	2.3' LT	---	1
	40+98 ST	8.8' LT	1	---
	41+11 ST	42.7' LT	---	1
	40+97 ST	9.2' RT	---	1
	40+97 ST	14.2' RT	---	1
	41+05 ST	41.1' RT	---	1
	43+23 ST	24.4' LT	---	1
	43+23 ST	34.1' LT	---	1
	43+23 ST	2.8' LT	1	---
	43+61 ST	44.0' LT	1	---
	44+70 ST	44.7' LT	1	---
		TOTALS	5	11

REMOVING STORM SEWER

CATEGORY	FROM STATION	TO STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.03 18-INCH LF
0010	34+50 ST	34+50 ST	LT	14	---
	40+98 ST	40+97 ST	LT & RT	---	18
	40+97 ST	40+97 ST	RT	---	5
	40+97 ST	41+05 ST	RT	---	29
	40+97 ST	43+23 ST	LT	---	226
	41+11 ST	40+98 ST	LT	---	35
	43+61 ST	44+70 ST	LT	109	---
	43+23 ST	43+23 ST	LT	22	---
	43+23 ST	43+23 ST	RT & LT	35	---
	43+23 ST	43+36 ST	LT	50	---
	74+12 W	74+04 W	LT	---	11
	74+04 W	74+08 W	LT	---	29
	74+08 W	74+08 W	LT	---	8
	74+08 W	74+59 W	RT	---	57
			TOTALS	230	418

SEALING PIPES

CATEGORY	STATION	LOCATION	204.0280 EACH
0010	43+23 ST	2.8' LT	1

EARTHWORK SUMMARY

CATEGORY	STATION - STATION	STAGE	205.0100 EXCAVATION COMMON C.Y.	ASPHALT REMOVAL C.Y.	CONCRETE REMOVAL C.Y.	(1) USEABLE EXCAVATION COMMON C.Y.	AIR FILL C.Y.	(2) EXPANDED FILL C.Y.	(3) -BORROW +WASTE C.Y.
0010	71+34.00 W - 72+56.00 W	1	74	0	0	74	0	0	74
	72+70.00 W - 72+96.00 W	1	12	0	0	12	0	0	12
	76+51.00 W - 78+72.00 W	1	179	0	0	179	0	0	179
	32+74.00 ST - 35+75.00 ST	1	167	0	0	167	0	0	167
	38+65.00 ST - 39+77.00 ST	1	40	0	0	40	0	0	40
	40+92.00 ST - 47+96.00 ST	1	800	0	0	800	0	0	800
		TOTALS STAGE 1	1272	0	0	1272	0	0	1272
	70+00.00 W - 72+70.60 W	2	1025	0	286	739	0	0	739
		TOTALS STAGE 2	1025	0	286	739	0	0	739
	73+53.00 W - 76+75.00 W	2A	562	0	320	242	2	3	239
	73+91.00 W - 74+80.00 W	2A	51	0	0	51	0	0	51
	35+00.00 ST - 39+40.60 ST	2A	1011	0	400	611	0	0	611
	39+41.00 ST - 40+19.00 ST	2A	67	0	0	67	0	0	67
	40+87.20 ST - 47+50.00 ST	2A	1327	0	413	914	3	4	910
		TOTALS STAGE 2A	3018	0	1133	1885	5	7	1878
	72+70.60 W - 73+53.00 W	2B	186	0	0	186	0	0	186
						0			
	34+40.00 ST - 39+40.60 ST	2B	1073	0	481	592	77	0	2101
	40+87.20 ST - 47+50.00 ST	2B	1333	141	716	476	61	0	2101
		TOTALS STAGE 2B	2592	141	1197	1254	138	0	4388
	70+00.00 W - 72+80.50 W	3	506	40	214	252	10	13	239
	74+23.00 W - 76+84.40 W	3	807	27	244	536	11	14	522
		TOTALS STAGE 3	1313	67	458	788	21	27	761
	72+80.50 W - 73+50.00 W	3A	151	0	125	26	0	0	26
		TOTALS STAGE 3A	151	0	125	26	0	0	26
	73+50.00 W - 74+23.00 W	3B	167	18	149	0	0	0	0
		TOTALS STAGE 3B	167	18	149	0	0	0	0
	33+50.00 ST - 34+40.00 ST	4	96	89	0	7	1	1	6
	41+15.00 ST - 43+90.00 ST	4	61	61	0	0	0	0	0
		TOTALS STAGE 4	157	150	0	7	1	1	6
		TOTALS	9695	376	3348	5971	165	35	9070

(1) USEABLE EXCAVATION = EXCAVATION COMMON - ASPHALT REMOVAL - CONCRETE REMOVAL
(2) EXPANSION FACTOR = 1.25
(3) BORROW/WASTE = USEABLE EXCAVATION - EXPANDED FILL

NO DEDUCTION WILL BE MADE FROM THE VOLUME OF COMMON EXCAVATION FOR THE VOLUME OF ASPHALTIC PAVEMENT AND CONCRETE PAVEMENT REMOVED UNDER THE ITEM OF "REMOVING PAVEMENT."

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BASE AGGREGATE SUMMARY

CATEGORY	STATION - STATION	LOCATION	STAGE	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON*	624.0100 WATER MGAL
0010	71+34 W - 72+56 W	LT	1	3	0.03
	72+70 W - 72+96 W	MED	1	20	0.20
	76+51 W - 78+72 W	MED	1	250	2.50
					0.00
	32+74 ST - 35+75 ST	MED	1	240	2.40
	38+65 ST - 39+77 ST	MED	1	55	0.55
	40+92 ST - 47+96 ST	MED	1	380	3.80
			TOTALS STAGE 1	948	9.48
	70+00.00 W - 72+70.60 W	RT	2	545	5.45
			TOTALS STAGE 2	545	5.45
	73+91 W - 74+80 W	MED	2A	75	0.75
	73+53.20 W - 76+75.00 W	RT	2A	410	4.10
					0.00
	35+00 ST - 39+40.60 ST	LT	2A	720	7.20
	39+41 ST - 40+19 ST	LT	2A	95	0.95
	40+87.20 ST - 47+50 ST	LT	2A	1240	12.40
	41+15 ST - 43+89 ST	MED	2A	250	2.50
			TOTALS STAGE 2A	3880	38.80
	72+70.60 W - 73+53.20 W	RT	2B	140	1.40
	34+05 ST - 34+57 ST	MED	2B	25	0.25
	34+40.00 ST - 39+40.60 ST	RT	2B	850	8.50
	40+87.20 ST - 47+50.00 ST	RT	2B	1210	12.10
			TOTALS STAGE 2B	2225	22.25
	70+00.00 W - 72+80.50 W	LT	3	530	5.30
	74+23.30 W - 76+84.40 W	LT	3	530	5.30
			TOTALS STAGE 3	1060	10.60
	72+80.50 W - 73+50.00 W	LT	3A	120	1.20
			TOTALS STAGE 3A	120	1.20
	73+50.00 W - 74+23.30 W	LT	3B	130	1.30
			TOTALS STAGE 3B	130	1.30
	32+58.60 ST - 34+40 ST	LT	4	110	1.10
			TOTALS STAGE 4	110	1.10
			TOTALS	9018	90.18

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

FINISHING ROADWAY

CATEGORY	PROJECT I.D.	213.0100 EACH
0010	6999-09-73	1

3

CONCRETE PAVEMENT SUMMARY

CATEGORY	STATION - STATION	LOCATION	SPV.0180.03 CONCRETE PAVEMENT SPECIAL 9-INCH SY	SPV.0180.07 CONCRETE PAVEMENT HES SPECIAL 9-INCH SY	SPV.0055.01 INCENTIVE STRENGTH CONCRETE PAVEMENT SPECIAL DOL
0010	70+00 W - 72+75 W	RT	1300	---	299
		STAGE 2 TOTALS	1300	0	299
	73+53 W - 76+75 W	RT	1030	---	237
	35+00 ST - 39+40 ST	LT	1600	---	368
	40+87 ST - 42+72 ST	LT	760	---	175
	42+72 ST - 43+43 ST	LT	---	240	55
	43+43 ST - 45+65 ST	LT	830	---	191
	45+65 ST - 46+55 ST	LT	---	510	117
	46+55 ST - 47+50 ST	LT	370	---	85
		STAGE 2A TOTALS	4590	750	1228
	34+40 ST - 35+50 ST	RT	280	---	64
	35+50 ST - 36+18 ST	RT	---	270	62
	36+18 ST - 39+40 ST	RT	1260	---	290
	40+35 ST - 40+87 ST	RT	---	500	115
	40+87 ST - 41+65 ST	RT	225	---	52
	41+65 ST - 44+60 ST	RT		900	207
	44+60 ST - 47+50 ST	RT	1130	---	260
		STAGE 2B TOTALS	2895	1670	1050
	70+00 W - 72+80 W	LT	835	---	192
	74+25 W - 76+85 W	LT	1240	---	285
		STAGE 3 TOTALS	2075	0	477
	39+40 ST - 40+35 ST	RT	---	515	118
		STAGE 3A TOTALS	0	515	118
	39+50 ST - 40+66 ST	LT	---	760	175
		STAGE 3B TOTALS	0	760	175
		TOTALS	10860	3695	3347

CONCRETE CURB & GUTTER SUMMARY

CATEGORY	STATION - STATION	LOCATION	STAGE	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	REMARKS
0010	70+00.00 W - 72+70.73 W	MEDIAN RT	2	270	---	---	
	70+00.00 W - 72+70.73 W	RT	2	270	---	---	
			STAGE 2 TOTALS	540	0	0	
	41+46.83 ST - 45+88.71 ST	LT	2A	460	---	---	
	43+30.00 ST - 43+50.00 ST	LT	2A	---	---	20	
	43+31.32 ST - 43+61.40 ST	LT	2A	---	40	---	
	46+08.23 ST - 46+21.89 ST	ISLAND	2A	32	---	---	REJECT
	46+35.55 ST - 47+50.00 ST	LT	2A	145	---	---	
	74+38.29 W - 76+75.00 W	MEDIAN RT	2A	237	---	---	
	74+66.66 W - 76+75.00 W	RT	2A	209	---	---	
	74+23.43 W - 74+66.66 W	RT	2A	79	---	---	
	35+00.00 ST - 35+49.54 ST	LT	2A	50	---	---	
	35+00.00 ST - 35+22.77 ST	RT	2A	34	---	---	
	35+49.54 ST - 35+71.54 ST	LT	2A	---	31	---	
	35+99.81 ST - 36+21.07 ST	LT	2A	---	31	---	
	36+21.07 ST - 39+41.15 ST	LT	2A	322	---	---	
	36+49+56 ST - 39+41.15 ST	MEDIAN LT	2A	297	---	---	
			STAGE 2A TOTALS	1865	102	20	
	34+57.90 ST - 35+27.63 ST	MEDIAN LT	2B	99	---	---	
	35+49.57 ST - 35+71.57 ST	RT	2B	---	30	---	
	35+95.99 ST - 36+18.06 ST	RT	2B	---	33	---	
	36+18.06 ST - 39+27.33 ST	RT	2B	310	---	---	
	36+49.56 ST - 39+41.15 ST	MEDIAN RT	2B	293	---	---	
	72+70.73 W - 43+61.33 ST	RT	2B	365	---	---	
	43+61.33 ST - 43+81.38 ST	RT	2B	---	58	---	
	44+24.36 ST - 44+60.05 ST	RT	2B	---	72	---	
	44+60.05 ST - 47+50.00 ST	RT	2B	295	---	---	
			STAGE 2B TOTALS	1362	193	0	
	70+00.00 W - 39+27.33 ST	LT	3	300	---	---	
	70+00.00 W - 72+80.46 W	MEDIAN LT	3	330	---	---	
	74+16.45 W - 76+84.39 W	LT	3	270	---	---	
	74+34.51 W - 74+80.34 W	MEDIAN RT	3	58	---	---	
	74+34.51 W - 76+84.39 W	MEDIAN LT	3	250	---	---	
			STAGE 3 TOTALS	1208	0	0	
	39+41.15 ST - 39+41.15 ST	MEDIAN RT	3B	40	---	---	
	39+41.15 ST - 74+16.45 W	RT	3B	55	---	---	
			STAGE 3B TOTALS	95	0	0	
	32+58.62 ST - 34+57.68 ST	MEDIAN RT	4	200	---	---	
	33+59.01 ST - 35+00.00 ST	MEDIAN LT	4	140	---	---	
	41+18.69 ST - 43+84.64 ST	MEDIAN LT	4	280	---	---	
	41+18.69 ST - 43+84.64 ST	MEDIAN RT	4	265	---	---	REJECT
			STAGE 4 TOTALS	885	0	0	
			TOTALS	5955	295	20	

PAVEMENT TIES

CATEGORY	STATION - STATION	LOCATION	416.0610 EACH
0010	76+75 W - 78+72.01 W	RT	74
	76+85 W - 78+72.01 W	LT	70
	33+00 ST - 35+50 ST	RT	103
	33+60 ST - 35+00 ST	LT	55
	45+90 ST - 56+10 S	LT	6
	46+23 ST - 46+35 ST	LT	4
		TOTAL	312

CULVERT PIPE CONCRETE COLLAR

CATEGORY	STATION	LOCATION	520.8000.S EACH
0010	40+98 ST	LT	1

DRIVEWAY SUMMARY

CATEGORY	STATION	LOCATION	416.0160 CONCRETE DRIVEWAY 6-INCH SY	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON*
0010	35+83.0 ST	RT	---	24	8
	35+87.0 ST	LT	---	24	8
	41+87.0 ST - 42+54.5 ST	RT	52	13	43
	43+09.0 ST	LT	32	21	33
	43+03.0 ST	LT	---	8	8
	44+10.5 ST	RT	---	84	34
	46+06.0 ST	RT	19	1	8
	46+80.5 ST	RT	16	1	7
	47+29.5 ST - 47+50.0 ST	RT	19	3	10
		TOTALS	138	179	159

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CONCRETE PAVEMENT GAPS

CATEGORY	LOCATION	LOCATION	416.0805 EACH
0010	35+83.0 ST	RT	1
	42+54.5 ST	RT	1
	43+03.0 ST	RT	1
	43+09.0 ST	LT	1
	44+02.0 ST	RT	1
		TOTAL	5

ASPHALTIC SURFACE TEMPORARY

CATEGORY	STATION - STATION	LOCATION	STAGE	465.0125 TON
0010	71+34 W - 72+56 W	LT	1	43
	72+70 W - 72+96 W	LT	1	7
	76+51 W - 78+72 W	LT	1	105
	32+74 ST - 35+75 ST	LT	1	98
	38+65 ST - 39+77 ST	LT	1	23
	40+92 ST - 47+96 ST	LT	1	155
			STAGE 1 TOTALS	431
	73+91 W - 74+80 W	LT	2A	30
	39+41 ST - 40+19 ST	LT	2A	39
	41+15 ST - 43+89 ST	LT	2A	100
			STAGE 2A TOTALS	169
	34+05 ST - 34+57 ST	LT	2B	36
			STAGE 2B TOTALS	36
			TOTALS	636

CURB RAMP DETECTABLE WARNING FIELD YELLOW

CATEGORY	STATION	LOCATION	602.0505 SF
0010	72+72 W	LT	18
	72+79 W	LT	36
	73+21 W	RT	18
	73+37 W	RT	18
	73+85 W	LT	36
	74+03 W	LT	36
	74+26 W	RT	18
	74+34 W	RT	36
	35+63 ST	LT	18
	35+63 ST	RT	18
	36+02 ST	LT	18
	36+06 ST	RT	18
	43+75 ST	RT	18
	44+44 ST	RT	18
	45+76 ST	LT	18
	46+41 ST	LT	18
		TOTAL	360

CONCRETE BARRIER TEMPORARY PRECAST

CATEGORY	STATION - STATION	LOCATION	STAGE	TOTAL LENGTH*	603.0500 CONTRACTOR FURNISHED & DELIVERED LF	603.0801 CONTRACTOR INSTALLED LF	REMARKS
010	40+51 ST - 44+45 ST	RT	2A	394	394	394	REMOVE AFTER STORM SEWER CONSTRUCTED

* FOR INFORMATION ONLY

CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	STAGE	602.0410 5-INCH SF	602.0415 6-INCH SF	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON*
0010	35+00 ST - 35+65 ST	LT	2	330	---	---
	36+04 ST - 39+50 ST	LT	2	1750	---	---
			STAGE 2 TOTALS	2080	0	0
	41+62 ST - 76+75 W	RT	2A	2800	---	---
	41+62 ST - 42+87 ST	LT	2A	625	---	---
	42+87 ST - 43+31 ST	LT	2A	---	220	5
	46+15 ST	ISLAND	2A	15	---	---
	46+39 ST - 47+50 ST	LT	2A	550	---	---
			STAGE 2A TOTALS	3990	220	5
	35+00 ST - 35+25 ST	MEDIAN	2B	115	---	---
	36+50 ST - 39+55 ST	MEDIAN	2B	1100	---	---
	35+50 ST - 35+67 ST	RT	2B	85	---	---
	36+00 ST - 39+10 ST	RT	2B	1550	---	---
	40+80 ST - 41+75 ST	RT	2B	515	---	---
	41+22 ST - 43+85 ST	MEDIAN	2B	1950	---	---
	41+75 ST - 42+64 ST	RT	2B	---	445	11
	42+64 ST - 42+92 ST	RT	2B	140	---	---
	42+92 ST - 43+15 ST	RT	2B	---	115	3
	43+15 ST - 43+81 ST	RT	2B	320	---	---
	44+41 ST - 45+94 ST	RT	2B	760	---	---
	45+94 ST - 46+19 ST	RT	2B	---	125	3
	46+19 ST - 46+71 ST	RT	2B	265	---	---
	46+71 ST - 46+90 ST	RT	2B	---	95	2
	46+90 ST - 47+16 ST	RT	2B	130	---	---
	47+16 ST - 47+50 ST	RT	2B	---	170	4
			STAGE 2B TOTALS	6930	950	23
	72+63 W - 39+10 ST	LT	3	530		
	71+21 W - 72+85 W	MEDIAN	3	815	---	---
	74+31 W - 76+84 W	LT	3	1250	---	---
	74+38 W - 75+50 W	MEDIAN	3	555	---	---
			STAGE 3 TOTALS	3150	0	0
	32+29 ST - 35+00 ST	MEDIAN	4	1900	---	---
			STAGE 4 TOTALS	1900	0	0
			TOTALS	18050	1170	28

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

STORM SEWER PIPE

CATEGORY	FROM STRUCT.	TO STRUCT.	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH L.F.	608.0315 15-INCH L.F.	608.0318 18-INCH L.F.
0010	930E	930C	123.3	---	---
	930F	930E	62.4	---	---
	940A	940	28.0	---	---
	940B	940	---	48.8	---
	940C	940B	7.0	---	---
	940D	940C	34.4	---	---
	945A	945	13.5	---	---
	945B	945	202.5	---	---
	945C	945B	5.0	---	---
	945E	945B	28.0	---	---
	945D	945C	40.0	---	---
	955	---	---	---	28.8
	955A	955	44.7	---	---
	955B	955	30.0	---	---
	955C	955B	8.0	---	---
	955D	955	6.4	---	---
	960	955	---	---	196.4
	960A	960	---	---	53.9
	960B	960A	---	108.8	---
	960C	960A	---	36.6	---
	960D	960	35.0	---	---
	965E	965C	20.0	---	---
		TOTALS	688.2	194.2	279.1

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	PROJECT I.D.	618.0100 EACH
0010	6999-09-73	1

MOBILIZATION

CATEGORY	PROJECT I.D.	619.1000 EACH
0010	6999-09-73	0.06

ADJUSTING MANHOLE COVERS

CATEGORY	STATION	LOCATION	611.8110 EACH
0010	40+08.4 ST	0.9' RT	1

ADJUSTING INLET COVERS

CATEGORY	STATION	LOCATION	611.8115 EACH
0010	34+50.0 ST	20.5' LT	1

COVER PLATES TEMPORARY

CATEGORY	STATION	LOCATION	611.8120.S EACH
0010	34+50 ST	0' RT	1

MANHOLES AND INLETS SUMMARY

CATEGORY	STRUCT. ID*	611.0201 MANHOLES TYPE 1 EACH	611.0303 INLETS TYPE 3 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	650.4000 CONSTRUCTION STAKING STORM SEWER SYSTEM EACH
0010	930E	---	1	---	---	1	---	1
	930F	---	1	---	---	1	---	1
	940	---	---	---	1	---	---	1
	940A	---	1	---	---	1	---	1
	940B	---	1	---	---	1	---	1
	940C	---	1	---	---	1	---	1
	940D	---	1	---	---	1	---	1
	945	1	---	---	1	---	---	1
	945A	---	1	---	---	1	---	1
	945B	---	1	---	---	1	---	1
	945C	---	1	---	---	1	---	1
	945D	---	1	---	---	1	---	1
	945E	---	1	---	---	1	---	1
	950	---	---	---	1	---	---	---
	955	1	---	---	---	1	---	1
	955A	---	1	---	---	1	---	1
	955B	---	1	---	---	1	---	1
	955C	---	1	---	---	1	---	1
	955D	---	1	---	---	1	---	1
	960	1	---	1	---	---	---	1
	960A	---	1	---	---	1	---	1
	960B	---	1	---	---	1	---	1
	960C	1	---	---	1	---	---	1
	960D	---	1	---	---	1	---	1
	965A	---	1	---	---	---	1	1
	965C	---	1	---	---	---	1	1
	965E	---	1	---	---	---	1	1
	TOTALS	4	21	1	4	19	3	26

FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0120.01 WATER FOR SEEDED AREAS MGAL	SPV.0180.09 PREPARING TOPSOIL FOR LAWN TYPE TURF SY
0010	70+00 W - 76+50 W	LT & RT	1930	1050	0.7	15.8	38.0	26.1	0.6	19.6	880
	33+50 ST - 47+50 ST	LT & RT	1420	20	0.1	25.4	0.5	19.2	0.9	31.6	1410
	UNDISTRIBUTED	LT & RT	---	270	0.2	10.3	9.6	11.3	0.4	---	---
		TOTALS	3350	1340	1.0	51.4	48.1	56.6	1.9	51.3	2290

CONCRETE MEDIAN SLOPE NOSE

CATEGORY	STATION	LOCATION	620.0300 SF
0010	72+87 W	MEDIAN LT	50
	74+35 W	MEDIAN LT	55
	35+25 ST	MEDIAN LT	60
	36+47 ST	MEDIAN LT	50
	39+58 ST	MEDIAN LT	50
	41+20 ST	MEDIAN LT	50
	43+86 ST	MEDIAN LT	55
		TOTAL	370

SILT FENCE

CATEGORY	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SLIT FENCE MAINTENANCE LF
0010	70+00 W - 72+50 W	LT	250	500
	36+02 ST - 38+00 ST	LT	200	400
	UNDISTRIBUTED	LT & RT	115	230
		TOTALs	565	1130

EROSION MAT

CATEGORY	STATION - STATION	LOCATION	628.2006 EROSION MAT URBAN CLASS I TYPE A SY
0010	70+00 W - 71+21 W	MEDIAN	150
	70+00 W - 72+80 W	LT	180
	70+00 W - 73+19 W	RT	180
	73+85 W - 76+84 W	LT	215
	74+26 W - 76+75 W	RT	125
	75+50 W - 78+78 W	MEDIAN	600
	35+00 ST - 35+65 ST	RT	45
	35+50 ST - 35+65 ST	LT	10
	36+02 ST - 39+45 ST	RT	305
	36+06 ST - 39+73 ST	LT	285
	40+86 ST - 41+75 ST	RT	50
	41+30 ST - 42+87 ST	LT	115
	41+99 ST - 42+12 ST	RT	5
	42+32 ST - 42+45 ST	RT	5
	42+65 ST - 42+92 ST	RT	15
	43+15 ST - 43+76 ST	RT	35
	43+30 ST - 45+78 ST	LT	160
	43+34 ST - 43+58 ST	LT	15
	44+45 ST - 45+90 ST	RT	95
	46+13 ST	LT	10
	46+19 ST - 46+71 ST	RT	30
	46+42 ST - 47+50 ST	LT	70
	46+90 ST - 47+17 ST	RT	15
	47+42 ST - 47+50 ST	RT	5
	UNDISTRIBUTED		680
		TOTAL	3400

3

INLET PROTECTION

CATEGORY	STRUCTURE NO.	628.7005 TYPE A EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	930E	1	1	---
	930F	1	1	---
	940A	1	1	---
	940B	1	1	---
	940C	1	1	---
	940D	1	1	---
	78+75 W	1	4	---
	STEWART STREET/STH 52 INT	---	4	---
	STA. 34+50 ST	1	3	---
	945A	1	1	---
	945B	1	1	---
	945C	1	1	---
	945D	1	1	---
	945E	1	1	---
	955	1	1	---
	955A	1	1	---
	955B	1	1	---
	955C	1	1	---
	955D	1	1	---
	960A	1	1	---
	960B	1	1	---
	960C	1	1	---
	965A	1	---	1
	965C	1	---	1
	TOTALS	23	30	2

MOBILIZATIONS EROSION CONTROL

CATEGORY	STAGE	628.1905 EACH
0010	PRE-1	1
	2A	1
	2B	1
	3A	1
	4	1
	TOTAL	5

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STAGE	628.1910 EACH
0010	PRE-1	1
	2A	1
	2B	1
	3A	1
	4	1
	TOTAL	5

PERMANENT SIGNING QUANTITIES

CATEGORY	SIGN NO.	APPROX. STATION	LOCATION	SIGN CODE	SIGN MESSAGE	(1) SIGN SIZE (W x H) IN	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH 14-FOOT EACH	634.0616 POSTS WOOD 4X6-INCH 16-FOOT EACH	634.0811 POSTS TUBULAR STEEL 2x2-INCH x 11-FT EACH	REMARKS
0010	4605	70+05 W	LT	R2-1	SPEED LIMIT 25	24 x 30	5.00	1	---	---	
	4606	71+48 W	LT	J4-1	REASSURANCE ASSEMBLY	24 x 24	4.00	1	---	---	M1-5A
	4609	72+77 W	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	---	MOUNT ON SIGNAL POLE
	4611	40+95 ST	RT	J13-1	DIRECTIONAL ASSEMBLY	24 x 45	7.06	---	1	---	M1-5A; M6-4
	4612	73+14 W	RT	D9-2	HOSPITAL	24 x 24	4.00	1	---	---	
				M6-1	STRAIGHT ARROW	21 x 21	3.06	---	---	---	
	4614	74+42 W	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	---	MOUNT ON SIGNAL POLE
	4617	75+20 W	RT	J4-1	REASSURANCE ASSEMBLY	24 x 24	4.00	1	---	---	M1-5A
	4618	75+88 W	RT	R2-1	SPEED LIMIT 25	24 x 30	5.00	1	---	---	
	4651	35+20 ST	LT	R4-7	KEEP RIGHT	24 x 30	5.00	1	---	---	
	4652	36+52 ST	LT	R4-7	KEEP RIGHT	24 x 30	5.00	1	---	---	
	4655	39+49 ST	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	---	MOUNT ON SIGNAL POLE
	4656	41+29 ST	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	---	MOUNT ON SIGNAL POLE
	4659	41+35 ST	LT	D9-2	HOSPITAL	24 x 24	4.00	1	---	---	
				M6-1	RIGHT ARROW	21 x 21	3.06	---	---	---	
	4660	43+78 ST	LT	R4-7	KEEP RIGHT	24 x 30	5.00	---	---	1	
	4661	44+41 ST	RT	R1-1	STOP	30 x 30	6.25	1	---	---	
	4662	44+63 ST	RT	R3-9B	CENTER LANE LEFT TURN ONLY	24 x 36	6.00	---	1	---	
	4665	39+89 ST	LT	J13-1	DIRECTIONAL ASSEMBLY	24 x 45	7.06	---	1	---	M1-5A; M6-4
	4701	39+43 ST	RT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	MOUNT ON POLE
	4702	74+14 W	LT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	MOUNT ON POLE
	4703	73+18 W	RT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	MOUNT ON POLE
	4704	41+31 ST	RT	R5-1	DO NOT ENTER	30 x 30	6.25	---	---	---	MOUNT ON POLE
	4710	36+03 ST	RT	R1-1	STOP	30 x 30	6.25	1	---	---	
	4802	70+00 W	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	24 X 30	5.00	1	---	---	
	4803	70+34 W	RT	R3-55R	RIGHT TURN LANE WITH DOWN LEFT ARROW	25 X 30	5.00	1	---	---	
	4804	76+37 W	LT	R3-55R	RIGHT TURN LANE WITH DOWN LEFT ARROW	26 X 30	5.00	1	---	---	
	4805	76+69 W	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	27 X 30	5.00	1	---	---	
	4806	32+58 ST	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	28 X 30	5.00	1	---	---	
	4807	33+33 ST	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	29 X 30	5.00	1	---	---	
	4808	37+17 ST	RT	R3-55R	RIGHT TURN LANE WITH DOWN LEFT ARROW	30 X 30	5.00	1	---	---	
	4809	37+83 ST	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	31 X 30	5.00	1	---	---	
	4810	43+44 ST	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	32 X 30	5.00	1	---	---	
	4811	38+72 ST	LT	R3-55L	LEFT TURN LANE WITH DOWN RIGHT ARROW	33 X 30	5.00	1	---	---	
	4812	39+00 ST	LT	R2-1	SPEED LIMIT 35	34 X 30	5.00	1	---	---	
	4813	41+64 ST	RT	R2-1	SPEED LIMIT 25	35 X 30	5.00	1	---	---	
						TOTALS	184.74	22	3	1	

3

PAVEMENT MARKING

CATEGORY	FROM STATION	TO STATION	LOCATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH LANE LINE (WHITE) LF	LANE LINE (YELLOW) LF	EDGE LINE (YELLOW) LF	646.0126 EPOXY 8-INCH (WHITE) LF	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0356 WORDS EPOXY EACH	647.0456 PAVEMENT MARKING CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EACH	647.0766 CROSSWALK EPOXY 6-INCH LF
0010													
	70+00 W	72+85 W	LT	71	---	---	---	---	---	---	---	---	---
	70+00 W	72+98 W	RT	75	---	---	---	---	---	---	---	---	---
	71+21 W	72+93 W	R.L.	---	---	---	172	---	---	---	---	---	---
	71+54 W	73+04 W	RT	---	---	---	150	---	---	---	---	---	---
	71+45 W		LT	---	---	---	---	---	1	---	---	---	---
	71+54 W		RT	---	---	---	---	1	---	---	---	---	---
	71+85 W		LT	---	---	---	---	1	---	---	---	---	---
	72+19 W		RT	---	---	---	---	---	1	---	---	---	---
	72+25 W		LT	---	---	---	---	---	1	---	---	---	---
	72+65 W		LT	---	---	---	---	1	---	---	---	---	---
	72+80 W		RT	---	---	---	---	1	---	---	---	---	---
	72+98 W		RT & LT	---	---	---	---	---	---	---	57	---	---
	72+87 W		MED.	---	---	---	---	---	---	34	---	1	---
	72+83 W	73+83 W	LT	---	---	---	---	---	---	---	---	---	189
	73+41 W	74+24 W	RT	---	---	---	---	---	---	---	---	---	161
	74+27 W		LT	---	---	---	---	---	---	---	53	---	---
	74+24 W	75+15 W	LT	---	---	---	90	---	---	---	---	---	---
	74+28 W	79+09 W	LT	120	---	---	---	---	---	---	---	---	---
	74+32 W	74+49 W	LT	---	---	---	117	---	---	---	---	---	---
	74+35 W		MED.	---	---	---	---	---	---	32	---	1	---
	74+36 W	79+00 W	RT	117	---	---	---	---	---	---	---	---	---
	74+48 W		LT	---	---	---	---	1	---	---	---	---	---
	74+58 W		LT	---	---	---	---	1	---	---	---	---	---
	74+91 W		LT	---	---	---	---	---	1	---	---	---	---
	75+02 W		LT	---	---	---	---	---	1	---	---	---	---
	75+45 W		LT	---	---	---	---	1	---	---	---	---	---
	34+40 ST	39+49 ST	RT	173	---	---	---	---	---	---	---	---	---
	33+04 ST	39+65 ST	LT	162	---	---	---	---	---	---	---	---	---
	33+75 ST	35+25 ST	R.L.	---	---	---	150	---	---	---	---	---	---
	35+25 ST		MED.	---	---	---	---	---	---	19	---	1	---
	36+47 ST		MED.	---	---	---	---	---	---	16	---	1	---
	35+67 ST	36+00 ST	RT	---	---	---	---	---	---	---	---	---	62
	35+67 ST	36+04 ST	LT	---	---	---	---	---	---	---	---	---	63
	36+47 ST	37+82 ST	LT	---	---	---	136	---	---	---	---	---	---
	38+27 ST	39+46 ST	RT	---	---	---	117	---	---	---	---	---	---
	38+32 ST		RT	---	---	---	---	1	---	---	---	---	---
	38+73 ST		RT	---	---	---	---	---	1	---	---	---	---
	38+82 ST		LT	---	---	---	---	---	1	---	---	---	---
	39+15 ST		RT	---	---	---	---	1	---	---	---	---	---
	39+28 ST		LT	---	---	---	---	1	---	---	---	---	---
	38+58 ST	39+52 ST	LT	---	---	---	94	---	---	---	---	---	---
	39+46 ST		RT & LT	---	---	---	---	---	---	---	50	---	---
	39+58 ST		MED.	---	---	---	---	---	---	33	---	1	---
	40+02 ST	41+09 ST	LT	---	---	---	---	---	---	---	---	---	205
	39+63 ST	40+81 ST	RT	---	---	---	---	---	---	---	---	---	218
	41+27 ST		LT	---	---	---	---	---	---	---	18	---	---
	41+20 ST		MED.	---	---	---	---	---	---	34	---	1	---
	41+29 ST	47+50 ST	LT	155	---	---	---	---	---	---	---	---	---
	41+27 ST	42+72 ST	LT	---	---	---	147	---	---	---	---	---	---
	41+11 ST	47+50 ST	RT	160	---	---	---	---	---	---	---	---	---
	41+49 ST		LT	---	---	---	---	1	---	---	---	---	---
	42+09 ST		LT	---	---	---	---	---	1	---	---	---	---
	42+70 ST		LT	---	---	---	---	1	---	---	---	---	---
	43+57 ST	47+50 ST	LT	---	---	399	---	---	---	---	---	---	---
	46+67 ST	47+50 ST	LT	---	96	---	---	---	---	---	---	---	---
	43+86 ST		MED.	---	---	---	---	---	---	61	---	1	---
	43+90 ST	47+50 ST	R.L.	---	90	---	---	---	---	---	---	---	---
	43+86 ST	47+50 ST	R.L.	---	---	364	---	---	---	---	---	---	---
	43+80 ST	44+42 ST	RT	---	---	---	---	---	---	---	---	---	116
	44+14 ST		RT	---	80	---	---	---	---	---	---	---	
	45+81 ST	46+39 ST	LT	---	---	---	---	---	---	---	---	---	104
	44+97 ST		LT	---	---	---	---	1	---	---	---	---	---
	45+20 ST		LT	---	---	---	---	1	---	---	---	---	---
			TOTALS	1033	266	763	1173	14	8	229	178	7	1118
					2062								

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REMOVING PAVEMENT MARKINGS

CATEGORY	STATION - STATION	LOCATION	STAGE	646.0600 LF
0010	70+00 W- 71+85 W	RT	1	190
	71+70 W - 72+30 W	RT	1	60
	75+00 W - 76+25 W	LT	1	125
	79+25 W - 80+50 W	LT	1	125
	23+23 ST - 24+50 ST	RT	1	125
		TOTAL STAGE 1		625
	73+80 W - 74+10 W	LT	2A	30
	73+85 W - 74+30 W	LT	2A	45
	77+85 W - 79+10 W	LT	2A	130
	37+16 ST - 38+41 ST	RT	2A	130
	47+68 ST - 49+00 ST	LT	2A	132
		TOTAL STAGE 2A		467
		TOTAL		1092

CONDUIT RIGID NON-METALLIC, LIGHTING SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*
0010	70+00 W	LP-17	130
	LP-30	LP-32	130
	LP-32	LP-34	135
	LP-34	LP-36	160
	LP-36	LP-19	190
	LP-19	PB-106	25
	PB-106	PB-107	110
	PB-107	PB-108	70
	LP-29	LP-31	130
	LP-31	LP-33	135
	LP-33	LP-35	160
	LP-35	LP-20	190
	LP-20	PB-108	25
	PB-108	PB-109	120
	PB-109	LP-23	105
	PB-109	PB-110	130
	PB-110	PB-111	80
	PB-111	PB-112	70
	PB-112	LC-2	70
	PB-112	PB-113	160
	PB-110	LP-25	200
	LP-25	LP-26	140
	LP-26	LP-27	140
	LP-27	LP-28	140
	PB-112	LP-37	55
	LP-37	LP-39	240
	LP-39	PB-116	110
	PB-116	PB-117	180
	PB-117	LP-41	40
	LP-41	47+50 ST	55
	PB-113	LP-38	175
	LP-38	PB-114	25
	PB-114	PB-115	200
	PB-115	LP-40	115
	LP-40	47+50 ST	175
		TOTAL	2095

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CONDUIT RIGID NON-METALLIC SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
0020	STEWART/28TH			
	CB2	PB35	18	27
	PB35	PB34	---	88
	PB34	LP22	6	---
	PB34	SB22	15	---
	PB34	PB33	---	76
	PB33	SB21	11	---
	PB33	PB30	---	128
	PB30	PB31	241	---
	PB30	SB20	18	---
	PB30	PB29	---	158
	PB29	SB19	22	---
	PB29	PB28	---	76
	PB28	SB18	9	---
	PB28	PB27	---	118
	PB27	PB26	231	---
	PB27	SB17	21	---
	PB27	PB43	---	118
	PB43	SB28	16	---
	PB43	PB42	---	84
	PB42	SB27	8	---
	PB42	PB40	---	128
	PB40	PB41	243	---
	PB40	SB26	33	---
	PB40	PB39	---	156
	PB39	SB25	24	---
	PB39	PB38	---	74
	PB38	SB24	11	---
	PB38	PB36	---	96
	PB36	PB37	194	---
	PB36	SB23	22	---
	PB36	PB35	---	42
		TOTALS	1143	1369

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.7000 CONCRETE PAVEMENT LF
0010	70+00 W - 76+75 W	RT	675	---	675
	70+00 W - 76+85 W	LT	685	---	685
	71+35 W - 72+88 W	LT	153	153	153
	76+50 W - 78+70 W	LT	220	220	220
	32+50 ST - 47+50 ST	LT & RT	1500	---	1500
	32+70 ST - 35+75 ST	LT	305	305	305
	39+41 ST - 40+19 ST	LT	78	78	78
		TOTALS	3616	756	3616

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

CATEGORY	PROJECT	650.8500 L.S.
0010	6999-09-73	1

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LOOP DETECTOR INSTALLATION

CATEGORY	LOOP NO.	STATION	LOCATION	SIZE FT x FT	NO. OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
0020	STEWART/28TH							
	11	72+63.4 W	6.0' LT	6X20	3	68	293	184
	12	72+92.4 W	6.0' LT	6X20	3	70	293	186
	21	76+76.9 W	34.1' LT	6X20	4	70	426	238
	22	74+28.1 W	28.0' LT	6X20	3	124	179	240
	23	74+24.3 W	41.0' LT	6X20	3	98	179	214
	24	74+20.5 W	54.0' LT	6X20	3	68	179	184
	31	41+51.2 ST	15.1' LT	6X20	3	76	96	192
	32	41+22.7 ST	14.8' LT	6X20	3	66	96	182
	41	36+90.8 ST	12.5' RT	6X20	4	66	643	234
	42	39+50.1 ST	5.5' RT	6X20	4	120	406	288
	43	39+46.5 ST	18' RT	6X20	4	96	406	264
	44	39+42.8 ST	30.5' RT	6X20	4	66	406	234
	51	74.60.6 W	15.9' LT	6X20	3	74	109	190
	52	74+31.6 W	16.0' LT	6X20	3	68	109	184
	61	70+43.3 W	12.0' RT	6X20	4	74	472	242
	62	72+97.6 W	6.0' RT	6X20	3	124	223	240
	63	73+03.1 W	19.0' RT	6X20	3	96	223	212
	64	73+08.7 W	32.0' RT	6X20	3	70	223	186
	71	39+24.2 ST	5.0' LT	6X20	3	84	308	200
	72	39+53.2 ST	5.0' LT	6X20	3	68	308	184
	81	43+48.4 ST	32.5' LT	6X20	3	66	277	182
	82	41+25.1 ST	25.3' LT	6X20	3	100	42	216
	83	41+28.7 ST	37.8' LT	6X20	3	86	42	202
					TOTALS	1898	5938	4878

LIGHTING PULL BOXES

CATEGORY	PULL BOX NO.	STATION	LOCATION	653.0140 PULL BOXES STEEL 24X42-INCH EACH*
0010	PB-109	74+25 W	65.0' LT	1
	PB-110	74+50 W	5.0' LT	1
	PB-111	74+50 W	34.6' RT	1
	PB-106	39+00 ST	41.0' RT	1
	PB-107	39+00 ST	15.0' LT	1
	PB-108	39+00 ST	50.0' LT	1
	PB-112	41+60 ST	50.0' LT	1
	PB-113	41+60 ST	30.0' RT	1
	PB-114	43+60 ST	30.0' RT	1
	PB-115	44+60 ST	30.0' RT	1
	PB-116	45+65 ST	50.0' LT	1
	PB-117	46+55 ST	50.0' LT	1
			TOTAL	12

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

PULL BOXES

CATEGORY	PULL BOX NO.	STATION	LOCATION	653.0120 PULL BOXES STEEL 18X24-INCH EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH*
0020	STEWART/28TH				
	PB26	36+91.0 ST	30.7' RT	1	---
	PB27	39+21.1 ST	41.4' RT	---	1
	PB28	39+38.1 ST	15.0' LT	---	1
	PB29	39+49.1 ST	51.3' LT	---	1
	PB30	74+36.6 W	65.6' LT	---	1
	PB31	76+76.9 W	53.8' LT	---	1
	PB32	76+70.5 W	30.8' RT	---	1
	PB33	74+54.3 W	4.9' LT	---	1
	PB34	74+59.4 W	32.5' RT	---	1
	PB35	41+42.1 ST	66.9' LT	---	1
	PB36	41+54.9 ST	50.7' LT	---	1
	PB37	43+48.5 ST	50.5' LT	1	---
	PB38	41+42.0 ST	4.9' LT	---	1
	PB39	41+32.0 ST	30.7' RT	---	1
	PB40	72+84.2 W	43.8' RT	---	1
	PB41	70+43.6 W	32.9' RT	1	---
	PB42	72+66.5 W	16.9' LT	---	1
	PB43	72+55.0 W	56.4' LT	---	1
	INTERCONNECT				
	PB63	71+90.7 W	52.7' LT	1	---
	PB64	42+56.9 ST	30.7' RT	1	---
	PB65	44+54.2 ST	31.3' RT	1	---
	PB66	46+30.8 ST	30.5' RT	1	---
			TOTALS	7	15

*ADDITIONAL QUANTITIES LISTED ELSEWHERE.

BASES

CATEGORY	SIGNAL NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
0020	STEWART/28TH					
	CB2	41+47.7 ST	72.6' LT	---	---	1
	SB17	39+41.1 ST	45.6' RT	1	---	---
	SB18	39+47.2 ST	14.9' LT	1	---	---
	SB19	39+70.3 ST	52.7' LT	---	1	---
	SB20	74+16.9 W	66.9' LT	1	---	---
	SB21	74+45.6 W	4.9' LT	1	---	---
	SB22	74+46.3 W	38.9' RT	---	1	---
	SB23	41+33.4 ST	55.5' LT	1	---	---
	SB24	41+31.3 ST	5.1' LT	1	---	---
	SB25	41+08.3 ST	32.7' RT	---	1	---
	SB26	73+16.3 W	49.4' RT	1	---	---
	SB27	72+74.6 W	17.0' LT	1	---	---
	SB28	72+68.2 W	64.5' LT	---	1	---
			TOTALS	8	4	1

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STREET LIGHTING SUMMARY

CATEGORY	LP/SB *	STATION	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	654.0107 CONCRETE BASES TYPE 7 EACH	657.0320 POLES TYPE 5 EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT EACH	659.0125 LUMINAIRES UTILITY HPS 250 WATTS EACH	DECORATIVE LIGHTING ASSEMBLY SINGLE EACH*	REMARKS
0010	LP-17	71+30 W	17.00'LT	1	---	1	---	2	2	---	
	LP-19	38+75 ST	41.00'RT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-20	38+75 ST	50.00'LT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	SB-28			---	---	---	1	---	1	---	SEE SIGNAL QUANTITIES
	SB-19			---	---	---	1	---	1	---	SEE SIGNAL QUANTITIES
	SB-25			---	---	---	1	---	1	---	SEE SIGNAL QUANTITIES
	LP-22	74+65 W	31.04'RT	1	---	1	1	---	1	---	
	LP-23	75+30 W	63.68'LT	1	---	1	1	---	1	---	
	LP-25	76+50 W	10.02'LT	1	---	1	---	2	2	---	
	LP-26	77+90 W	11.39'LT	1	---	1	---	2	2	---	
	LP-27	79+30 W	14.93'LT	1	---	1	---	2	2	---	
	LP-28	80+70 W	22.57'LT	1	---	1	---	2	2	---	
	LP-29	32+60 ST	52.00'LT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-30	32+60 ST	30.00'RT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-31	33+90 ST	52.00'LT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-32	33+90 ST	30.00'RT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-33	35+25 ST	52.00'LT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-34	35+25 ST	30.00'RT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-35	36+85 ST	50.00'LT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-36	36+85 ST	30.00'RT	~~1~~	--- 1	1	1	---	~~1~~	--- 1	
	LP-37	42+15 ST	50.00'LT	---	1	---	---	---	---	1	
	LP-38	43+35 ST	30.00'RT	---	1	---	---	---	---	1	
	LP-39	44+55 ST	50.00'LT	---	1	---	---	---	---	1	
	LP-40	45+75 ST	30.00'RT	---	1	---	---	---	---	1	
	LP-41	46+95 ST	50.00'LT	---	1	---	---	---	---	1	
			TOTAL	~~17~~ 7	~~5~~ 15	17	15	10	~~25~~ 15	~~5~~ 15	

*ITEMS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF WAUSAU. INSTALLATION OF ALL CITY FURNISHED ITEMS ARE PAID FOR UNDER THE ITEM TRANSPORT AND INSTALL CITY OF WAUSAU FURNISHED LIGHTING MATERIALS (STEWART AVENUE TO 28TH AVENUE STA 47+50 ST).

LIGHTING CONTROL CABINET SUMMARY

CATEGORY	CABINET NO.	STATION	LOCATION	654.0215 CONCRETE CONTROL CABINET BASES TYPE 9 EACH	SPV.0060.01 LIGHTING CONTROL CABINET EACH
0010	LC-2	41+60 ST	64.5'LT	1	1

INTERSECTION PEDESTAL BASES, TRANSFORMER BASES, TRAFFIC SIGNAL STANDARDS, POLES AND TROMBONE ARMS

CATEGORY	SIGNAL NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES STANDARD 11 1/2-INCH BOLT CIRCLE EACH	657.0395.S.01 POLES TYPE 2 EACH	657.0395.S.02 POLES TYPE 3 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0595.S.03 TROMBONE ARMS 25-FOOT EACH	SPV.0060.07 FOLDING ALUMINUM STOP SIGNS 36X36-INCH REFLECTIVE TYPE II EACH	REMARKS
0020	STEWART/28TH									
	SB17	1	---	---	---	1	---	---	1	SIGN NO. 4654
	SB18	1	---	---	---	---	1	---	1	SIGN NO. 4653
	SB19	---	1	---	1	---	---	1	---	
	SB20	1	---	---	---	1	---	---	1	SIGN NO. 4613
	SB21	1	---	---	---	---	1	---	1	SIGN NO. 4615
	SB22	---	1	1	---	---	---	1	---	
	SB23	1	---	---	---	1	---	---	1	SIGN NO. 4658
	SB24	1	---	---	---	---	1	---	1	SIGN NO. 4657
	SB25	---	1	---	1	---	---	1	---	
	SB26	1	---	---	---	1	---	---	1	SIGN NO. 4610
	SB27	1	---	---	---	---	1	---	1	SIGN NO. 4608
	SB28	---	1	---	1	---	---	1	---	
	TOTALS	8	4	1	3	4	4	4	8	

ELECTRICAL WIRE, LIGHTING

CATEGORY	LOCATION FROM	LOCATION TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0625 ~~655.0620~~ ELECTRICAL WIRE LIGHTING ~~8 AWG~~ 6 AWG LF
0010	STEWART/28TH				
	CB-2	SB-25	---	~~167~~	--- 167
		POLE	138	---	---
	SB-25	SB-28	---	~~245~~	--- 245
		POLE	138	---	---
	CB-2	LP-22	---	~~72~~	--- 72
		POLE	138	---	---
	LP-22	SB-19	---	~~239~~	--- 239
		POLE	138	---	---
	LC-1, CIRCUIT 2				
	70+00 W	LP-17	138	~~650~~	--- 390
	LC1, CIRCUIT 4				
	70+00 W	LP-17	138	~~650~~	--- 390
	LC-2, CIRCUIT 1				
	LC-2	LP-37	132	---	222
	LP-37	LP-39	132	---	720
	LP-39	LP-41	132	---	732
	LP-41	47+50 S	---	---	165
	LC-2, CIRCUIT 3				
	LC-2	LP-38	132	---	828
	LP-38	LP-40	132	---	732
	LP-40	47+50 S	---	---	525
	LC-2, CIRCUIT 2				
	LC-2	LP-20	138	---	1035
	LP-20	LP-35	138	---	~~1575~~ 570
	LP-35	LP-33	138	---	480
	LP-33	LP-31	138	---	405
	LP-31	LP-29	138	---	390
	LC-2, CIRCUIT 4				
	LC-2	LP-19	138	---	1332
	LP-19	LP-36	138	---	570
	LP-36	LP-34	138	---	480
	LP-34	LP-32	138	---	405
	LP-32	LP-30	138	---	390

	LC-2, CIRCUIT 6			---	
	LC-2	LP-23	138	---	936
	LC-2	LP-25	138	---	~~678~~ 1008
	LP-25	LP-26	138	---	420
	LP-26	LP-27	138	---	420
	LP-27	LP-28	138	---	420
	LC-2, CIRCUIT 8				
	LC-2	LP-25	138	---	1008
	LP-25	LP-26	138	---	~~560~~ 420
	LP-26	LP-27	138	---	~~560~~ 420
	LP-27	LP-28	138	---	~~560~~ 420
		TOTALS	4110	~~2023~~	~~16548~~

TRAFFIC SIGNAL CABLE SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
0010	STEWART/28TH					
	CB-2	SB-22	---	---	86	---
	SB-22	6B	47	---	---	---
	SB-22	PH8-2	12	---	---	---
	SB-22	PEDB8-2	5	---	---	---
	CB-2	SB-23	---	---	70	---
	SB-23	8A	15	---	---	---
	SB-23	PH6-1	12	---	---	---
	SB-23	PEDB6-1	5	---	---	---
	CB-2	SB-24	---	113	---	---
	SB-24	5A	17	---	---	---
	SB-24	7B	17	---	---	---
	CB-2	SB-25	---	---	---	169
	SB-25	4B	47	---	---	---
	SB-25	PH6-2	12	---	---	---
	SB-25	PEDB6-2	5	---	---	---
	SB-25	SB-26	---	---	147	---
	SB-26	6A	15	---	---	---
	SB-26	PH4-2	12	---	---	---
	SB-26	PEDB4-2	5	---	---	---
	CB-2	SB-27	---	307	---	---
	SB-27	1A	17	---	---	---
	SB-27	5B	17	---	---	---
	CB-2	SB-28	---	---	---	363
	SB-28	2B	47	---	---	---
	SB-28	PH4-1	12	---	---	---
	SB-28	PEDB4-1	5	---	---	---
	SB-28	SB-17	---	---	---	---
	SB-17	4A	15	---	---	---
	SB-17	PH2-2	12	---	---	---
	SB-17	PEDB2-2	5	---	---	---
	CB-2	SB-18	---	---	323	---
	SB-18	3B	17	---	---	---
	SB-18	7A	17	---	---	---
	CB-2	SB-20	---	---	---	203
	SB-20	2A	15	---	---	---
	SB-20	PH8-1	12	---	---	---
	SB-20	PEDB8-1	5	---	---	---
	SB-20	SB-19	---	---	119	---
	SB-19	8B	47	---	---	---
	SB-19	PH2-1	12	---	---	---
	SB-19	PEDB2-1	5	---	---	---
	CB-2	SB-21	---	126	---	---
	SB-21	1B	17	---	---	---
	SB-21	5A	17	---	---	---
		TOTALS	520	546	745	735

TRAFFIC SIGNAL FACES SUMMARY

CATEGORY	LOCATION SIGNAL BASE NO.	HEAD NO.	658.0500 PEDESTRIAN PUSH BUTTONS EACH
0010	STEWART/28TH		
	SB17	4A,PH2-2	1
	SB18	3B,7A	---
	SB19	8B,PH2-1	1
	SB20	2A,PH8-1	1
	SB21	1B,5A	---
	SB22	6B,PH8-2	1
	SB23	8A,PH6-1	1
	SB24	5A,7B	---
	SB25	4B,PH6-2	1
	SB26	6A,PH4-2	1
	SB27	1A,5B	---
	SB28	2B,PH4-1	1
		TOTALS	8

3

EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

CATEGORY	LOCATION FROM	LOCATION TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
0010	STEWART/28TH		
	CB-2	SB-23	70
	SB-23	SB-24	93
	SB-24	SB-25	84
	SB-25	SB-26	147
	SB-26	SB-27	117
	SB-27	SB-28	78
	SB-28	SB-17	108
	SB-17	SB-18	101
	SB-18	SB-19	81
	SB-19	SB-20	131
	SB-20	SB-21	105
	SB-21	LP-22	67
	LP-22	SB-22	27
	SB-22	CB-2	86
	SB-23	PB-36	28
	SB-24	PB-38	17
	SB-25	PB-39	30
	SB-26	PB-40	39
	SB-27	PB-42	14
	SB-28	PB-43	22
	SB-17	PB-27	27
	SB-18	PB-28	15
	SB-19	PB-29	28
	SB-20	PB-30	24
	SB-21	PB-33	17
	SB-22	PB-34	12
	CB-2	PB-35	15
		TOTAL	1583

SAWING EXISTING PAVEMENT

CATEGORY	STATION - STATION	STAGE	LOCATION	690.0100 LF
0010	35+70 ST - 36+00 ST	1	LT	30
			STAGE 1 TOTAL	30
	41+70 ST - 43+50 ST	2A	LT	215
			STAGE 2A TOTAL	215
	41+65 ST - 52+60 ST	2B	RT	95
	42+90 ST - 43+15 ST	2B	RT	25
	43+80 ST - 44+30 ST	2B	RT	55
			STAGE 2B TOTAL	175
			TOTAL	420

SAWING CONCRETE PAVEMENT FULL DEPTH

CATEGORY	STATION - STATION	STAGE	LOCATION	690.0200 LF
0010	71+40 W - 73+00 W	1	LT	185
	72+75 W - 73+00 W	1	LT	70
	76+50 W - 78+70 W	1	MED LT	220
	76+75 W - 78+70 W	1	MED LT	195
	32+75 ST - 33+55 ST	1	MED RT	80
	33+60 ST - 34+45 ST	1	MED LT	85
	34+45 ST - 35+75 ST	1	MED RT	130
	38+70 ST - 39+80 ST	1	MED LT	110
	40+90 ST - 46+00 ST	1	MED LT	675
	40+90 ST - 46+00 ST	1	MED RT	675
			STAGE 1 TOTAL	2425
	70+00 W - 72+70 W	2A	RT	380
	73+65 W - 76+75 W	2A	RT	350
	73+90 W - 74+75 W	2A	LT	110
	35+00 ST - 39+40 ST	2A	LT	535
	39+40 ST - 40+15 ST	2A	LT	105
	40+50 ST - 46+00 ST	2A	LT	555
	45+80 ST - 46+00 ST	2A	LT	20
			STAGE 2A TOTAL	2055
	72+70 W - 73+50 W	2B	RT	80
	34+40 ST	2B	RT	25
	39+40 ST	2B	RT	55
	39+40 ST - 40+35 ST	2B	RT	95
			STAGE 2B TOTAL	255
			TOTAL	4735

INSTALL PROPOSED CONDUIT INTO EXISTING ITEM

CATEGORY	LOCATION	SPV.0060.08 EACH
0010	77+13 W, 30'RT	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

CATEGORY	LOCATION	661.0200 LS
0010	STEWART & 28TH AVE	1

REMOVE AND SALVAGE TRAFFIC SIGNALS AND LIGHTING EQUIPMENT

CATEGORY	LOCATION	SPV.0105.01 LS
0010	STEWART & 28TH AVE	0.5

TRANSPORT AND INSTALL CITY OF WAUSAU FURNISHED LIGHTING MATERIALS

CATEGORY	LOCATION	LS	ITEM NUMBER
0010	STEWART AVENUE (28TH AVENUE TO STA 47+50 ST)	1	SPV.0105.03

3

EXISTING SIGNING SUMMARY

CATEGORY	SIGN NO.	SIGN CODE	SIGN MESSAGE	MOVE OR REMOVE PRIOR TO STAGE	SIGN SIZE IN x IN	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
010								
	803	R2-1	SPEED LIMIT (35 MPH)	2A	24 X 30	1	---	---
	407	---	DIRECTIONAL ASSEMBLY	2A	---	---	4	1
	401	R1-1	STOP SIGN	2A	36 X 36	---	1	---
	402	R4-7	KEEP RIGHT	2A	24 X 30	---	1	---
	405	R1-1	STOP SIGN	2A	36 X 36	---	1	---
	406	R4-7	KEEP RIGHT	2A	24 X 30	---	1	---
	407	---	DIRECTIONAL ASSEMBLY	2A	---	---	4	1
	408	---	STEWART AVENUE	2A	---	---	2	1
	810	R1-1	STOP SIGN	2A	36 X 36	---	1	---
	409	W6-1	DIVIDED HIGHWAY AHEAD	2A	36 X 36	---	1	1
	410	R4-7	KEEP RIGHT	2A	24 X 30	---	1	---
	411	R1-1	STOP SIGN	2A	36 X 36	---	1	---
	412	---	DIRECTIONAL ASSEMBLY	2A	---	2	6	---
	413	R1-1	STOP SIGN	2A	36 X 36	---	1	---
	414	R4-7	KEEP RIGHT	2A	24 X 30	---	1	---
	416	R2-1	SPEED LIMIT (25 MPH)	2A	24 X 30	1	---	---
	600	W9-2R	LANE ENDS MERGE RIGHT	2A	48 X 48	---	1	1
	601	W4-2R	LANE REDUCTION	2A	36 X 36	---	1	1
				STAGE 2A SUBTOTALS		4	28	6
	803	R2-1	SPEED LIMIT (35 MPH)	2B	24 X 30	---	1	1
	404	---	DIRECTIONAL ASSEMBLY	2B	---	---	4	1
	403	R1-1	STOP SIGN	2B	36 X 36	---	1	---
	412	---	HOSPITAL	2B	---	---	2	1
	416	R2-1	SPEED LIMIT (25 MPH)	2B	24 X 30	---	1	1
				STAGE 2B SUBTOTALS		0	9	4
	400	---	DIRECTIONAL SIGN	3A	---	---	1	2
	415	---	DIRECTIONAL ASSEMBLY	3A	---	---	10	3
	414	R1-1	STOP SIGN	3A	36 X 36	---	1	---
	417	---	DIRECTIONAL SIGN	3A	---	---	2	2
				STAGE 3A SUBTOTALS		0	13	5
					TOTALS	4	50	15

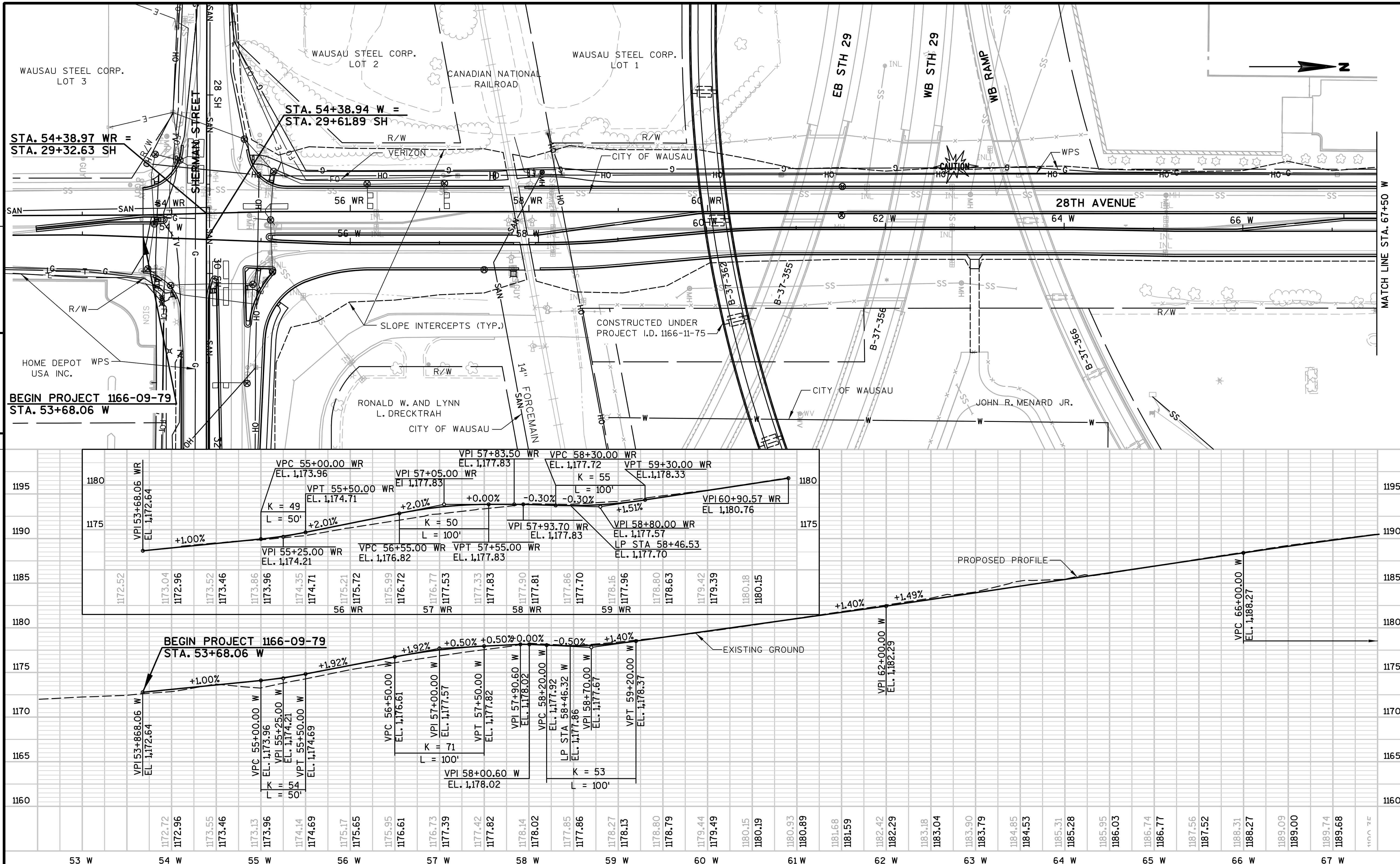
TEMPORARY PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	STAGE	649.0100 4-INCH (YELLOW) L.F.	649.0100 4-INCH (WHITE) L.F.	649.0400 REMOVABLE TAPE 4-INCH (YELLOW) L.F.	649.0400 REMOVABLE TAPE 4-INCH (WHITE) L.F.	649.1100 STOP LINE 18-INCH L.F.	649.1200 STOP LINE 18-INCH REMOVABLE L.F.
0010	70+00 W	-	72+94 W	1	---	---	294	---	---	---
	71+84 W	-	72+95 W	1	---	---	---	111	---	---
	71+84 W		73+01 W	1	---	---	117	---	---	---
	75+00 W	-	76+25 W	1	---	---	---	125	---	---
	79+25 W	-	80+50 W	1	---	---	125	---	---	---
	23+25 ST	-	27+92 ST	1	---	---	---	467	---	---
				STAGE 1 SUBTOTLAS	0	0	536	703	0	0
	70+00 W	-	72+79 W	2A	558	---	---	---	---	---
	72+70 W	-	72+79 W	2A	---	9	---	---	---	---
	72+79 W			2A	---	---	---	---	12	---
	74+09 W	-	80+50 W	2A	895	---	---	---	---	---
	74+32 W	-	76+15 W	2A	---	366	---	---	---	---
	76+63 W	-	78+64 W	2A	201	201	---	---	---	---
	33+03 ST	-	35+75 ST	2A	---	---		272	---	---
	33+58 ST	-	35+75 ST	2A	---	---	317	---	---	---
	35+75 ST	-	39+38 ST	2A	726	---	---	---	---	---
	38+46 ST	-	39+38 ST	2A	---	182	---	---	---	---
	39+38 ST			2A	---	---	---	---	22	---
	40+91 ST			2A	---	---	---	---	22	---
	40+91 ST	-	41+50 ST	2A	---	118	---	---	---	---
	40+91 ST	-	47+50 ST	2A	1318	659	---	---	---	---
				STAGE 2A SUBTOTAL	3698	1535	317	272	56	0

TEMPORARY PAVEMENT MARKING SUMMARY (CONT'D)

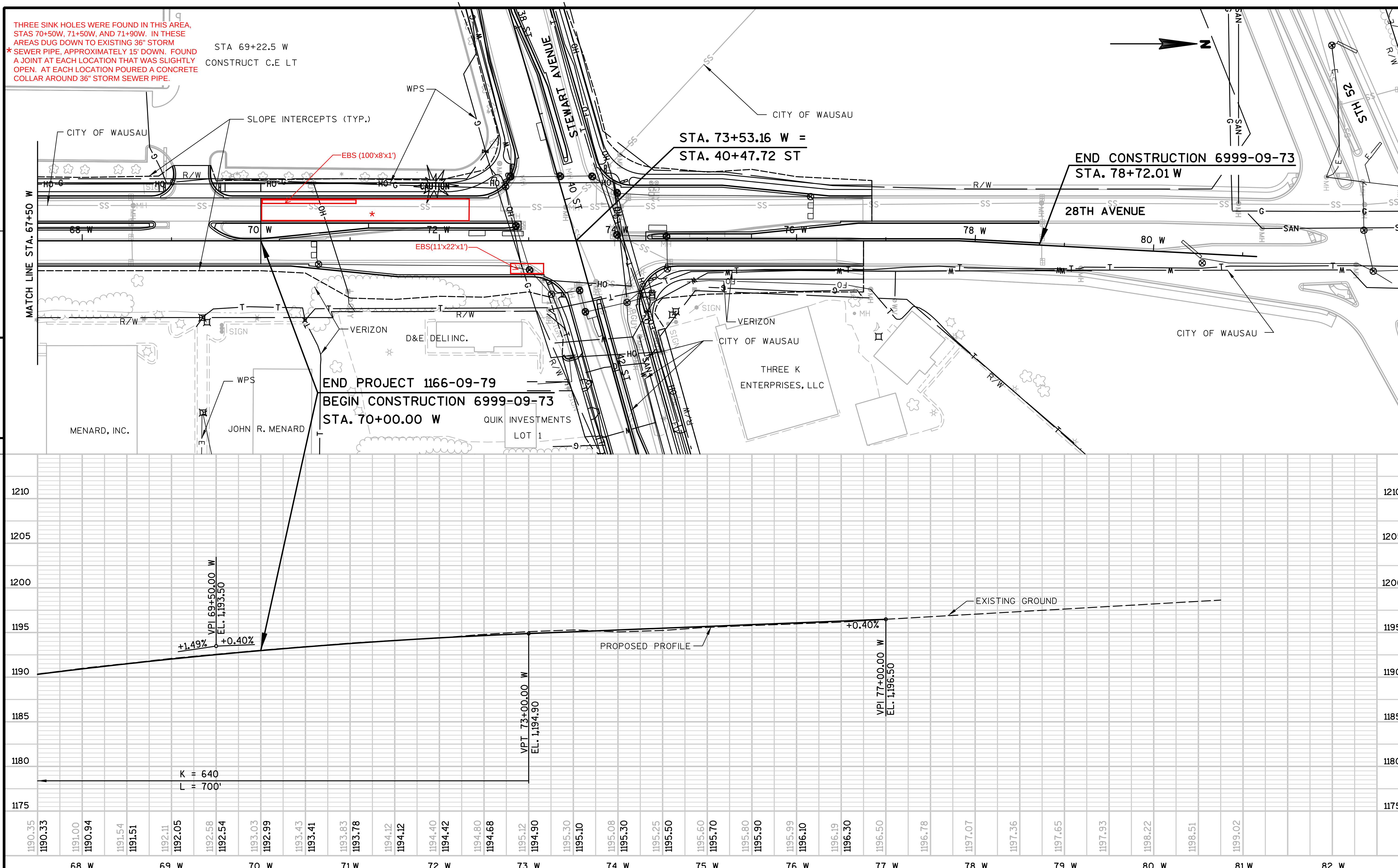
CATEGORY	STATION	TO	STATION	STAGE	649.0100 4-INCH (YELLOW) L.F.	649.0100 4-INCH (WHITE) L.F.	649.0400 REMOVABLE TAPE 4-INCH (YELLOW) L.F.	649.0400 REMOVABLE TAPE 4-INCH (WHITE) L.F.	649.1100 STOP LINE 18-INCH L.F.	649.1200 STOP LINE 18-INCH REMOVABLE L.F.
0010	71+34 W	-	72+70 W	2B	---	---	244	122	---	---
	32+17 ST	-	34+47 ST	2B	---	---	230	230	---	---
	33+43 ST	-	35+24 ST	2B	---	---	412	---	---	---
	36+36 ST	-	38+72 ST	2B	---	---	---	236	---	---
	36+36 ST	-	39+57 ST	2B	---	---	642	---	---	---
	39+57 ST			2B	---	---	---	---	---	12
	41+30 ST			2B	---	---	---	---	---	12
	41+30 ST	-	43+43 ST	2B	---	---	---	213	---	---
	41+30 ST	-	45+78 ST	2B	---	---	896	---	---	---
	46+26 ST	-	47+50 ST	2B	---	---	248	---	---	---
				STAGE 2B SUBTOTAL	0	0	2672	801	0	24
	70+00 W	-	73+55 W	3A	---	---	710	---	---	---
	70+00 W	-	73+55 W	3A	---	---	---	391	---	---
	70+00 W	-	72+50 W	3A	---	---	---	250	---	---
	72+50 W	-	73+55 W	3A	---	---	---	210	---	---
	73+04 W	-	73+92 W	3A	---	---	---	102	---	---
	73+55 W			3A	---	---	---	---	---	32
	74+23 W			3A	---	---	---	---	---	16
	74+23 W	-	77+88 W	3A	---	---	629	---	---	---
	76+87 W	-	78+63 W	3A	---	---	176	---	---	---
	76+87 W	-	80+85 W	3A	---	---	---	398	---	---
	39+41 ST	-	40+13 ST	3A	---	---	---	72	---	---
	39+57 ST	-	40+13 ST	3A	---	---	112	---	---	---
	40+13 ST			3A	---	---	---	---	---	12
	43+43 ST	-	45+69 ST	3A	---	---	---	226	---	---
	46+47 ST	-	51+51 ST	3A	---	---	---	504	---	---
	46+47 ST	-	47+50 ST	3A	---	---	206	---	---	---
				STAGE 3A SUBTOTAL	0	0	1833	2153	0	60
	71+53 W	-	73+06 W	3B	---	---	---	306	---	---
	73+06 W			3B	---	---	---	---	---	30
	74+07 W			3B	---	---	---	---	---	12
	74+07 W	-	74+23 W	3B	---	---	---	16	---	---
	33+03 ST	-	39+37 ST	3B	---	---	---	634	---	---
	33+58 ST	-	35+74 ST	3B	---	---	432	---	---	---
	36+18 ST	-	39+98 ST	3B	---	---	760	---	---	---
	38+27 ST	-	39+98 ST	3B	---	---	---	342	---	---
	39+98 ST			3B	---	---	---	---	---	22
	41+19 ST			3B	---	---	---	---	---	12
	41+19 ST	-	44+69 ST	3B	---	---	626	---	---	---
	43+95 ST	-	45+75 ST	3B	---	---	180	---	---	---
	43+77 ST	-	45+84 ST	3B	---	---	---	230	---	---
	46+35 ST	-	46+84 ST	3B	---	---	---	70	---	---
		-								
				STAGE 3B SUBTOTAL	0	0	1998	1598	0	76
					3698	1535	7356	5527	56	160
				UNDISTRIBUTED	1300		3500		24	48
				TOTALS	6533		16383		80	208

PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	SHEET 201	E



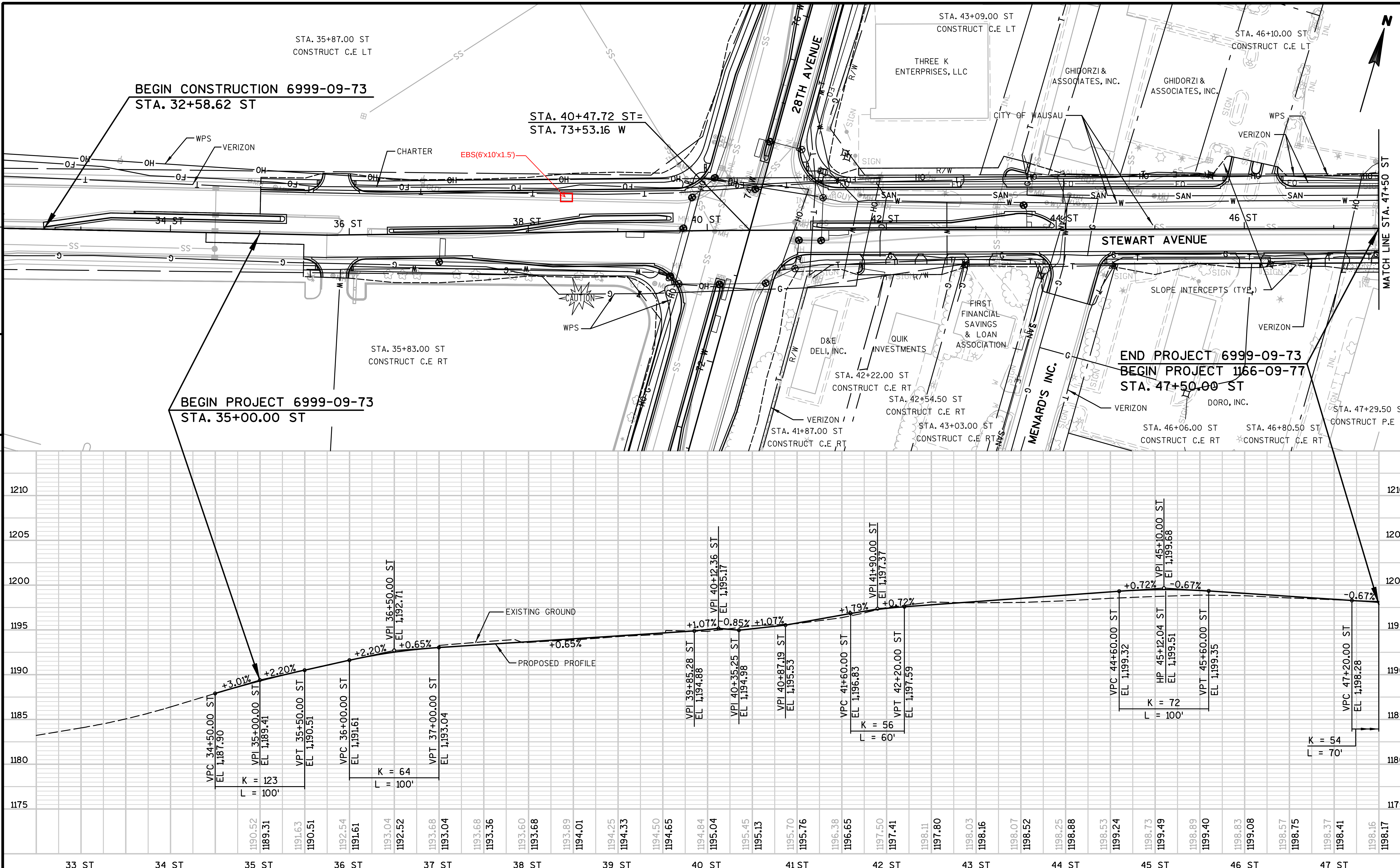
PROJECT NO: 1166-09-79	HWY: USH 51/STH29	COUNTY: MARATHON	PLAN AND PROFILE - 28TH AVENUE (W)	SHEET 231	E

FILE NAME : S:\@Sai\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\050101_pp.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40



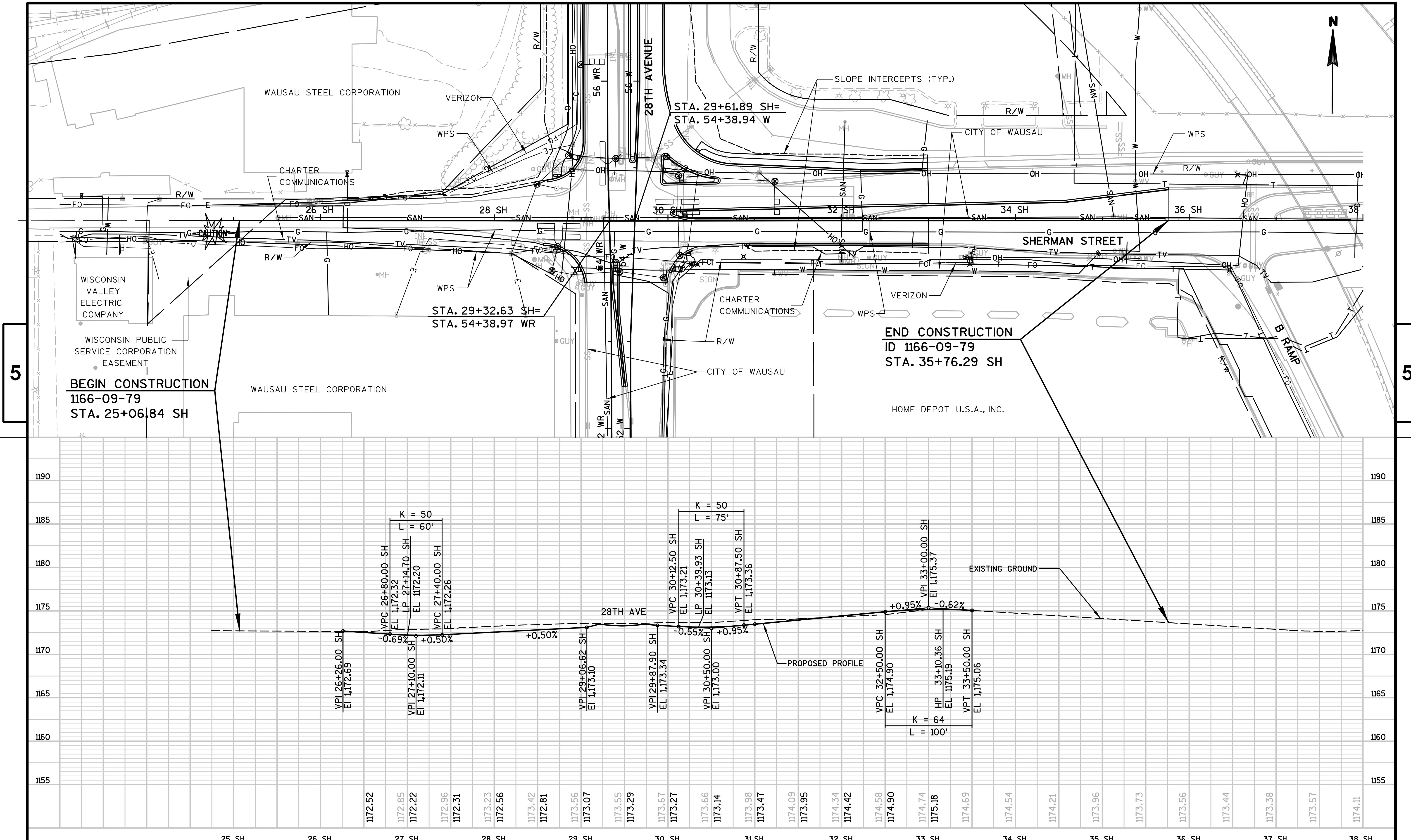
PROJECT NO:1166-09-79 & 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PLAN AND PROFILE - 28TH AVENUE (W)	SHEET 232	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\050102_pp.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	PLAN & PROFILE - STEWART AVENUE (ST)	SHEET 233	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\050103_pp.dgn PLOT DATE : 1/30/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40

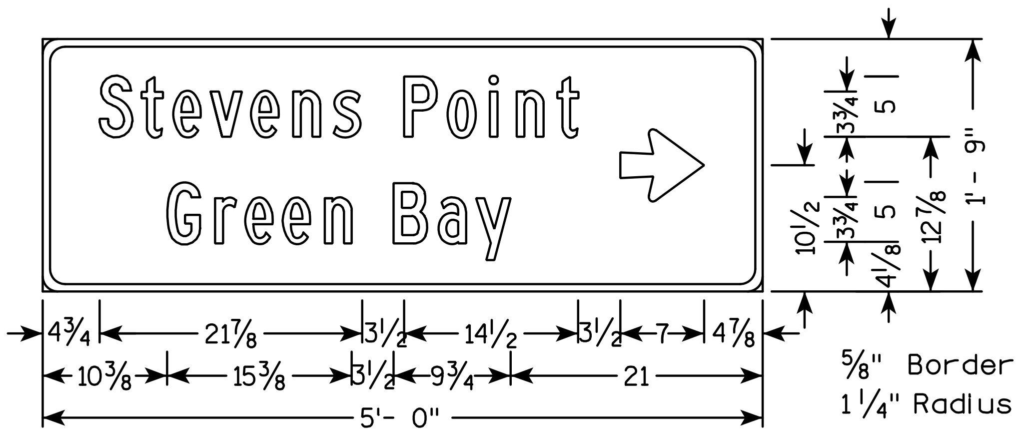


PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	PLAN & PROFILE - SHERMAN STREET (SH)	SHEET 235	E

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C

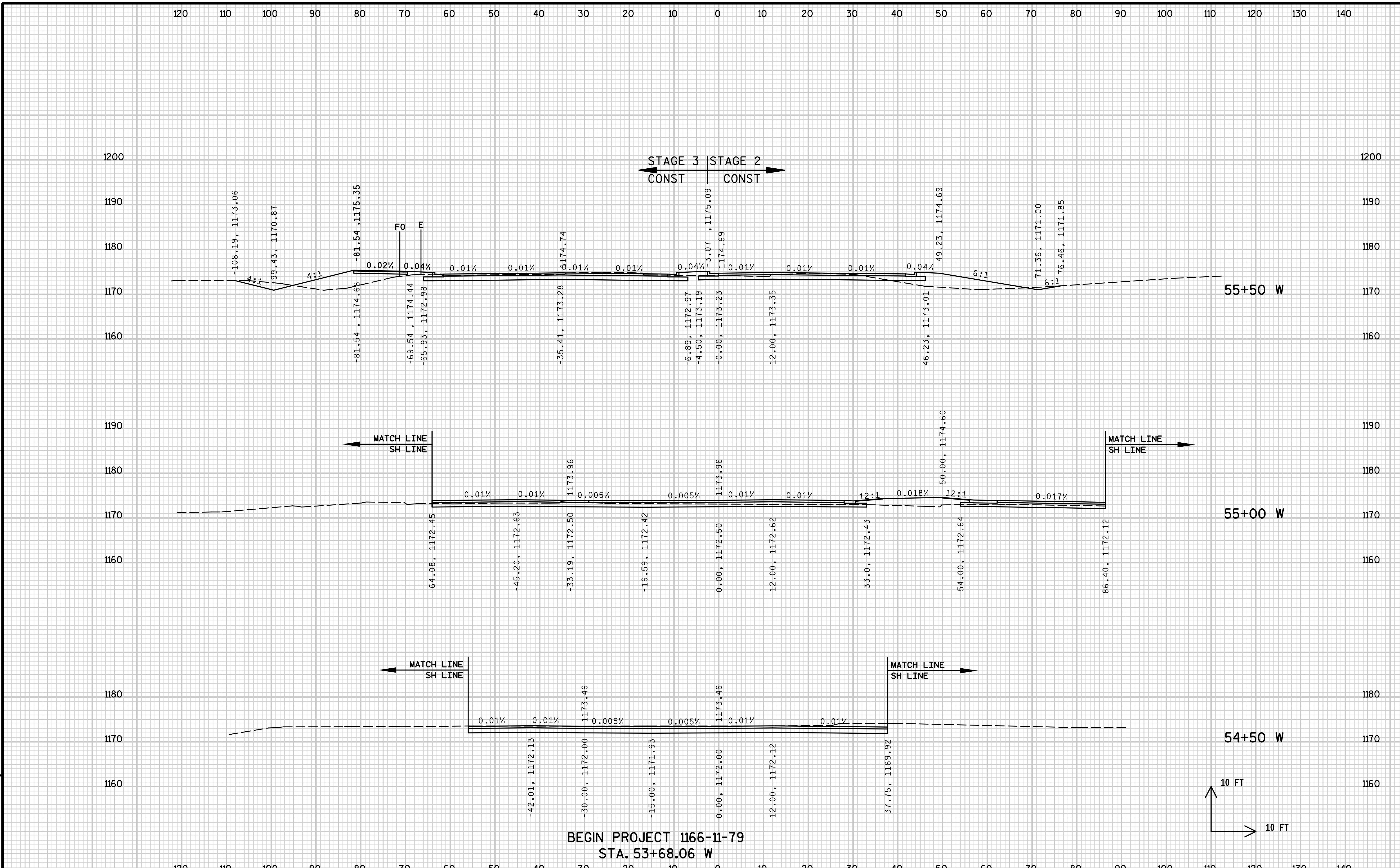
4113



⅝" Border
1¼" Radius

D1-2

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	SIGN PLATES	SHEET NO: 310	E

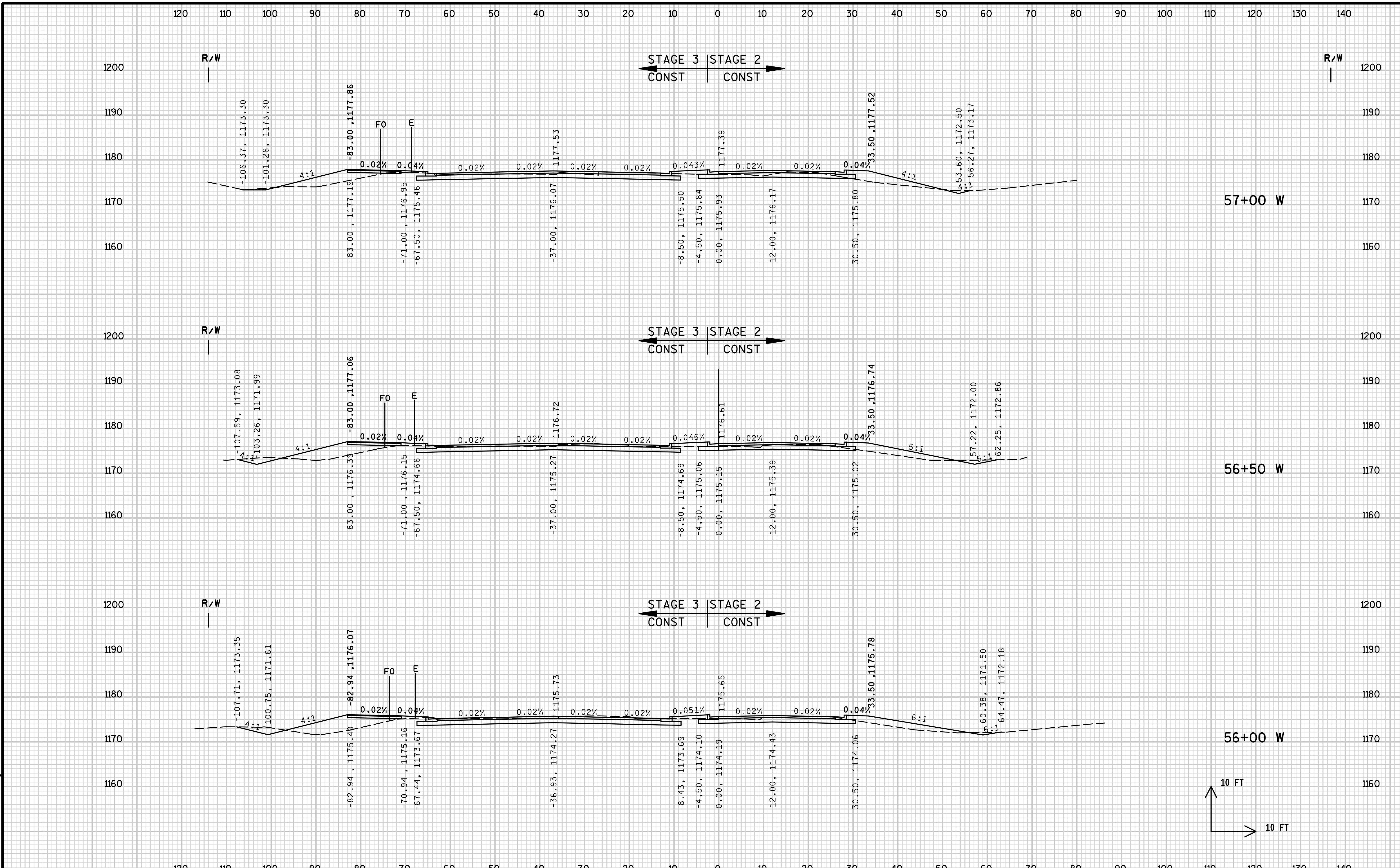


9

9

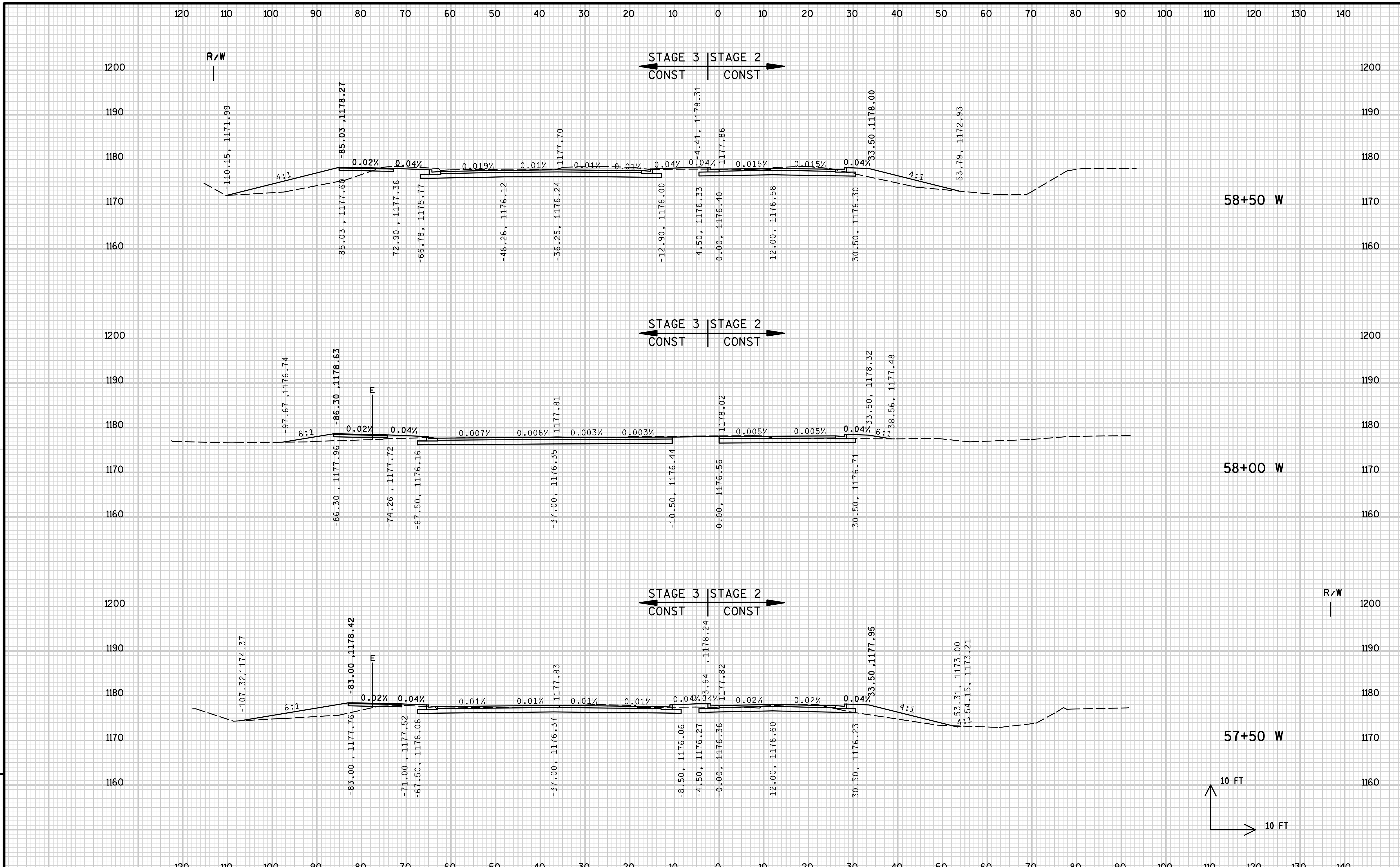
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 341	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



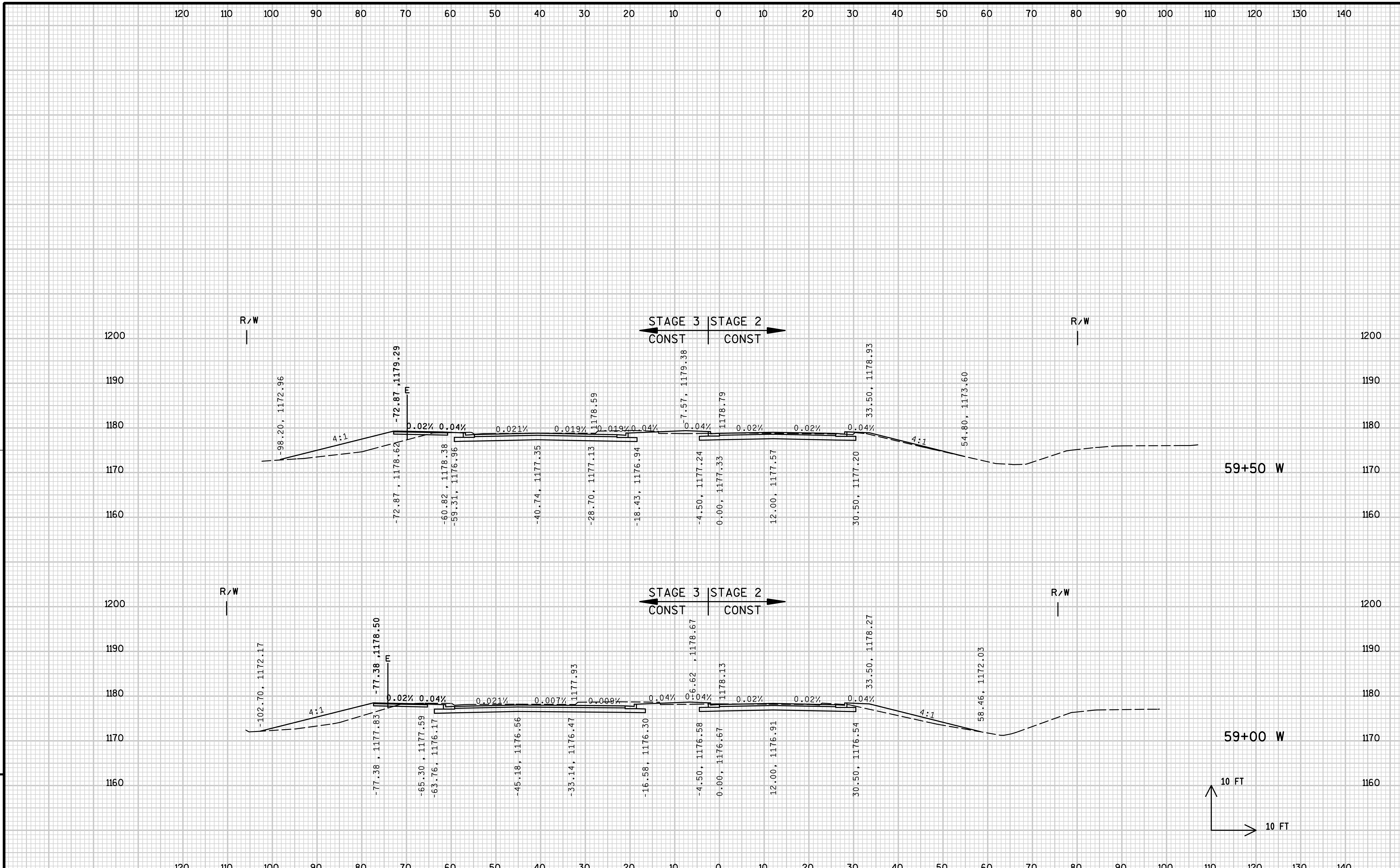
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 342	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



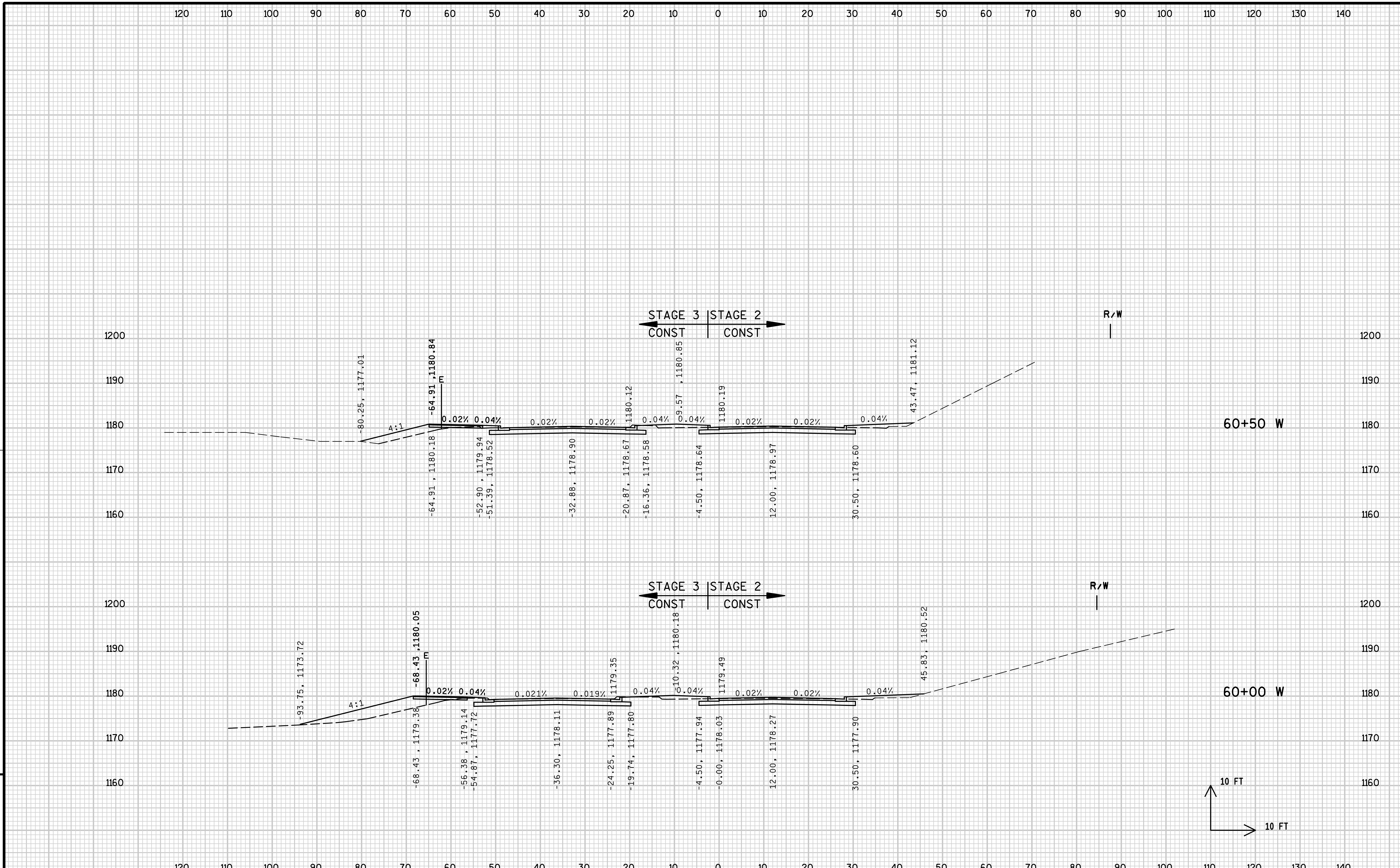
9

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 343	E



PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 344	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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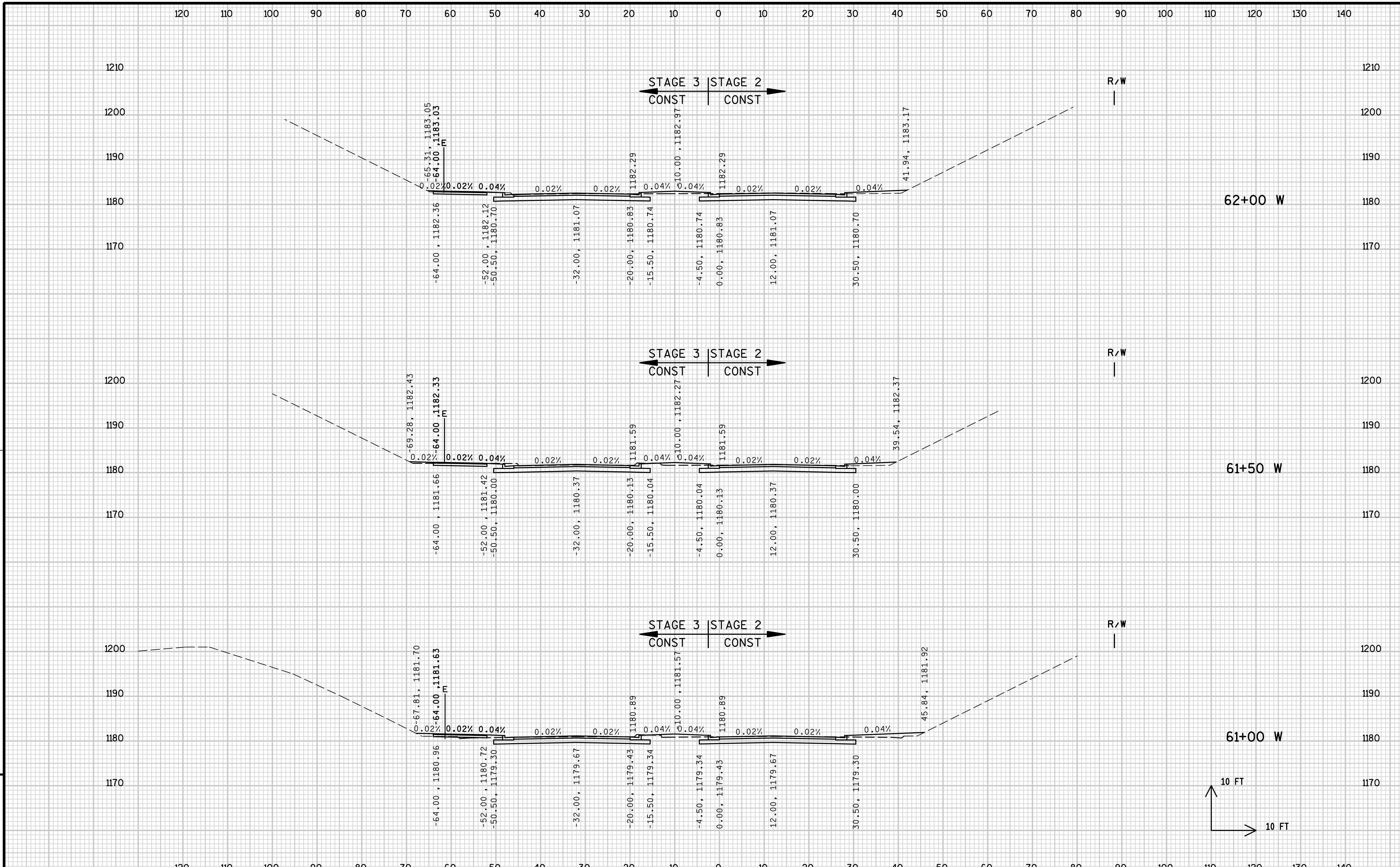
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 345	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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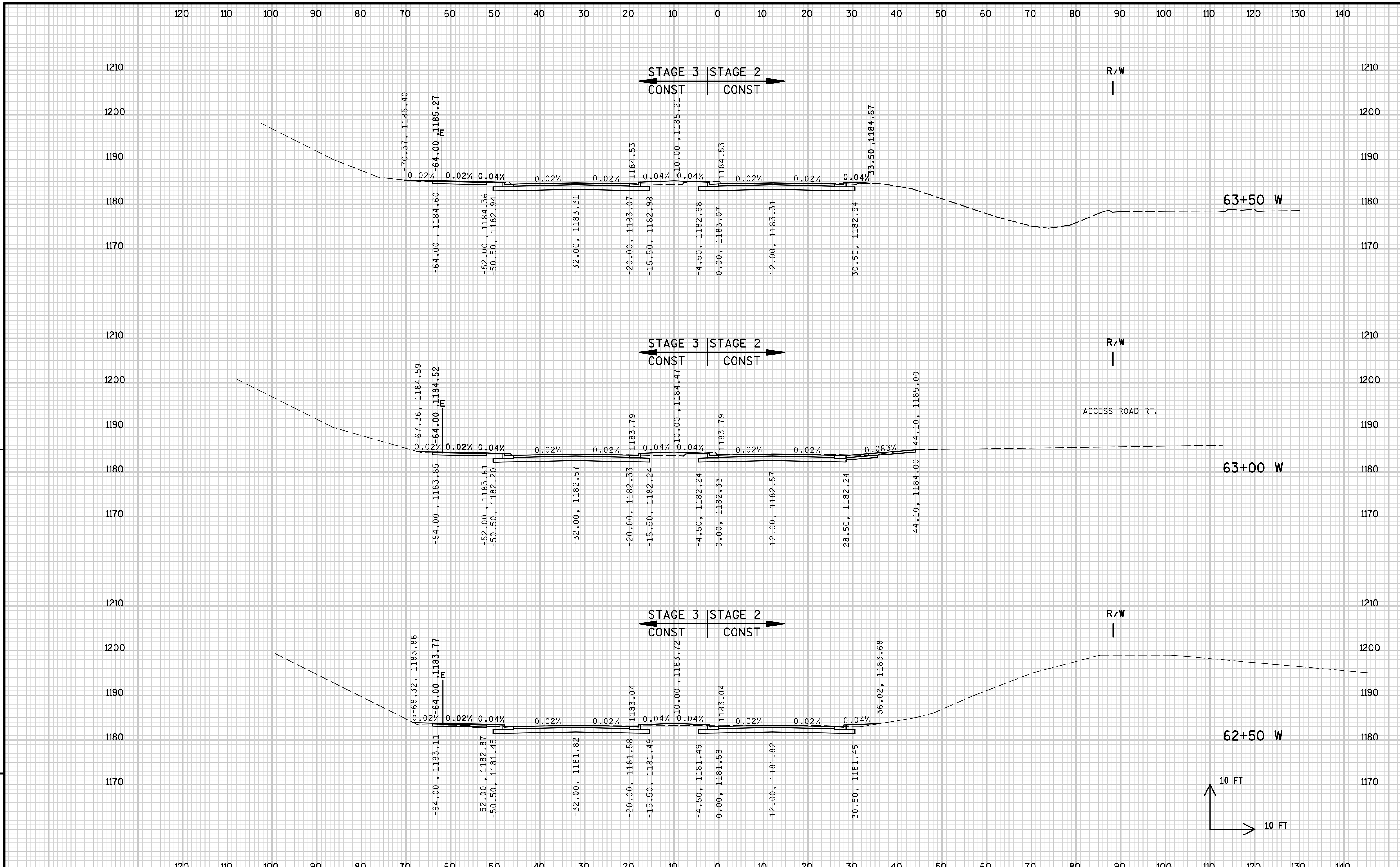
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 346	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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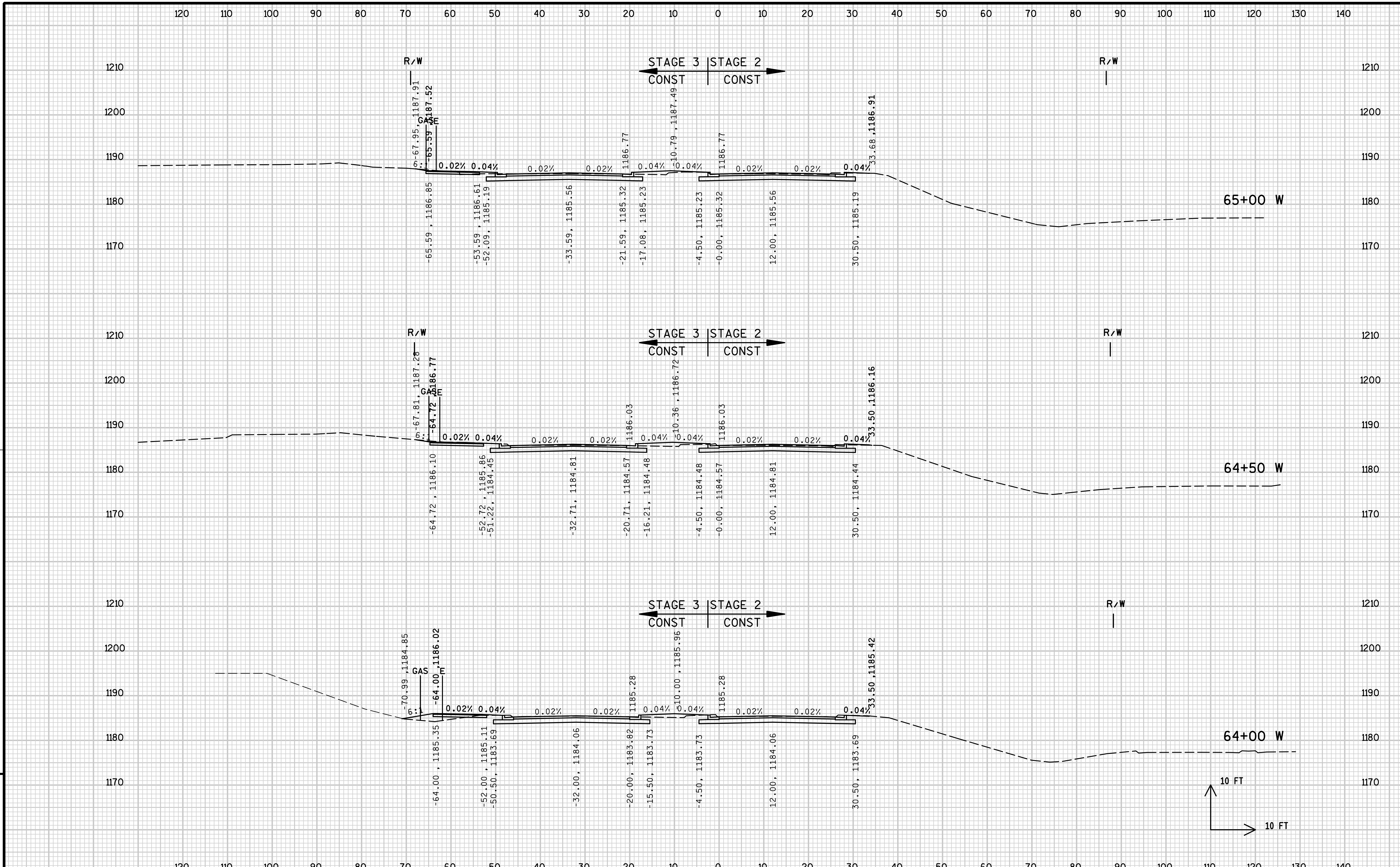
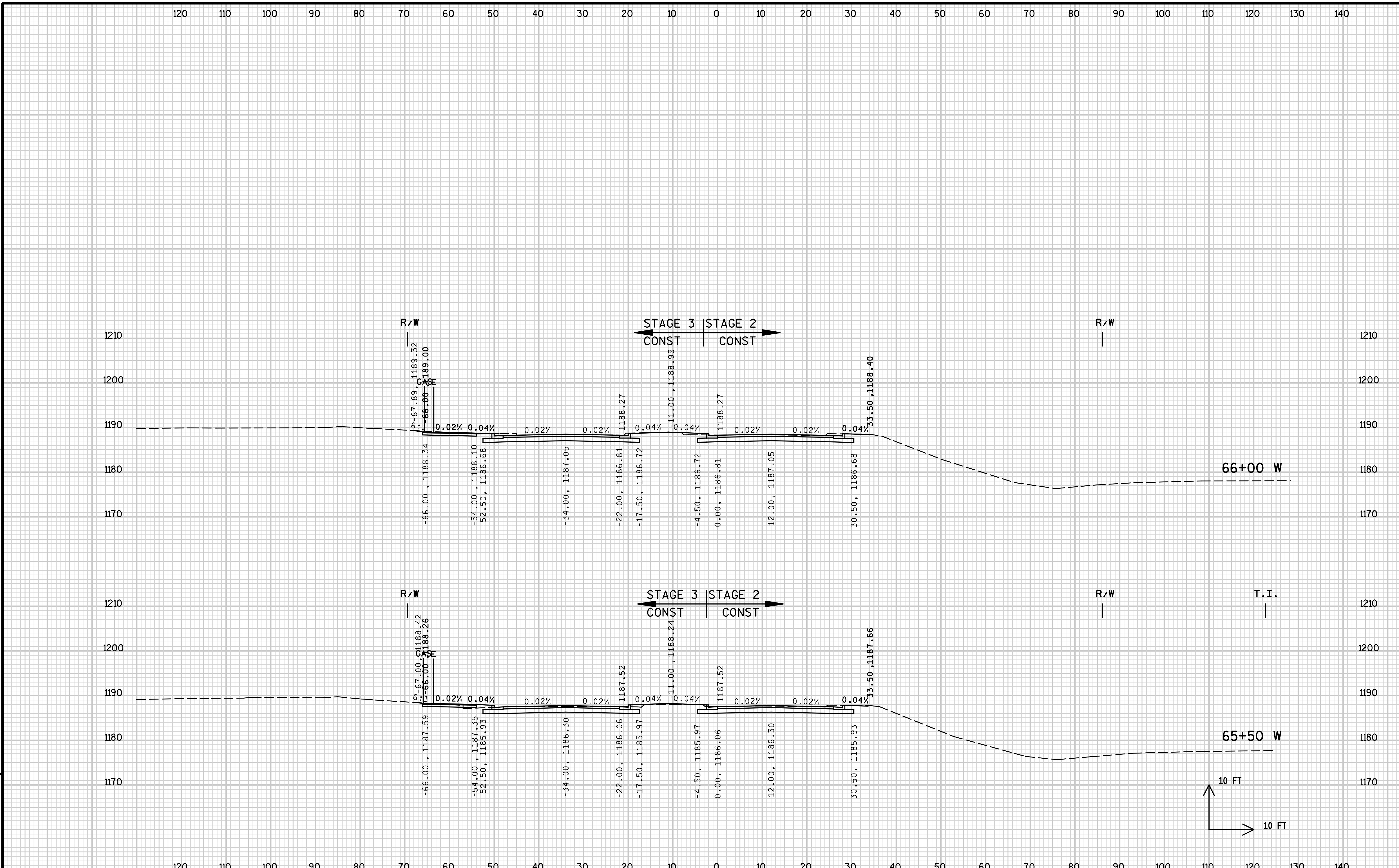
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 347	E



PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 348	E

FILE NAME : s:\eSAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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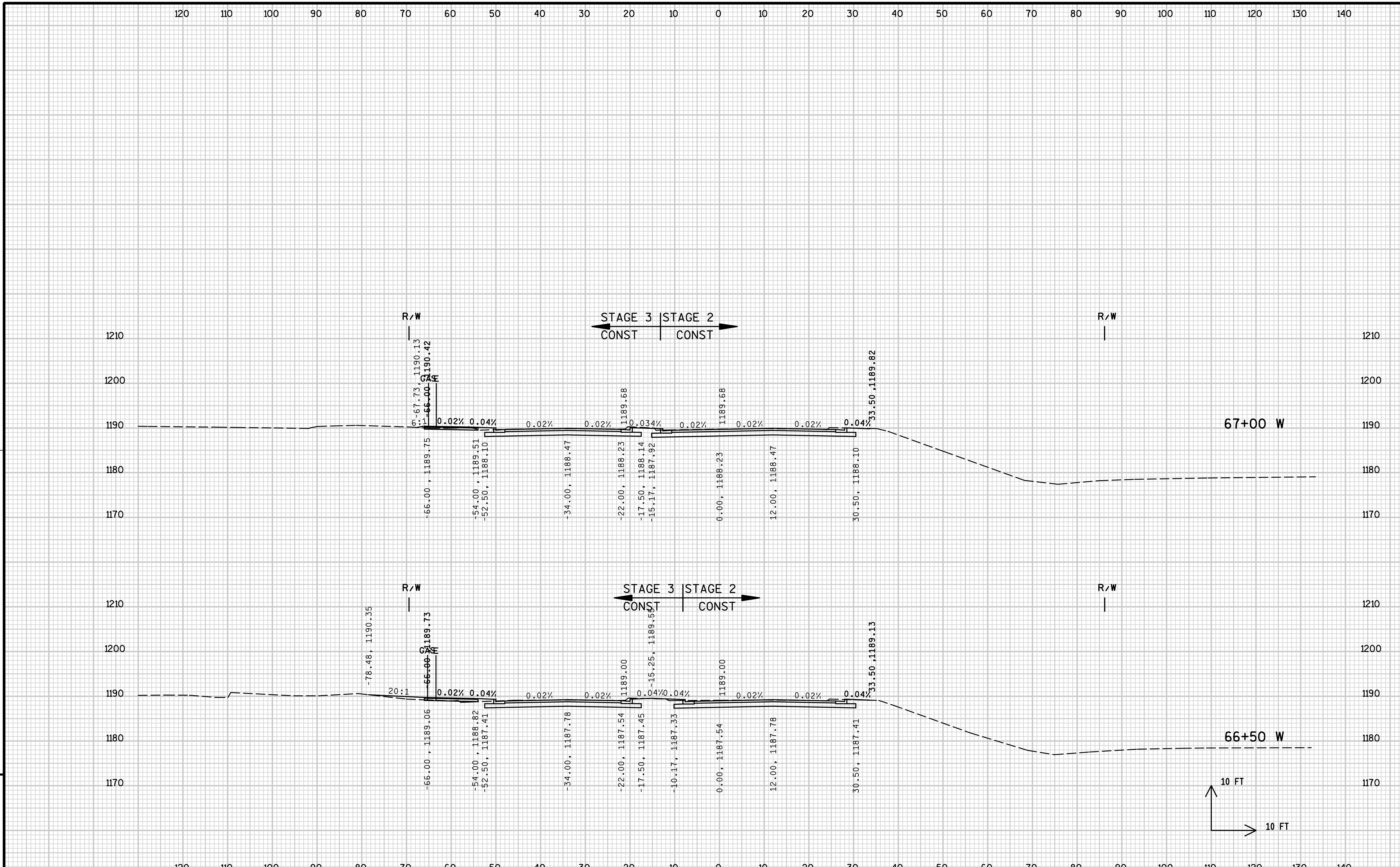
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 349	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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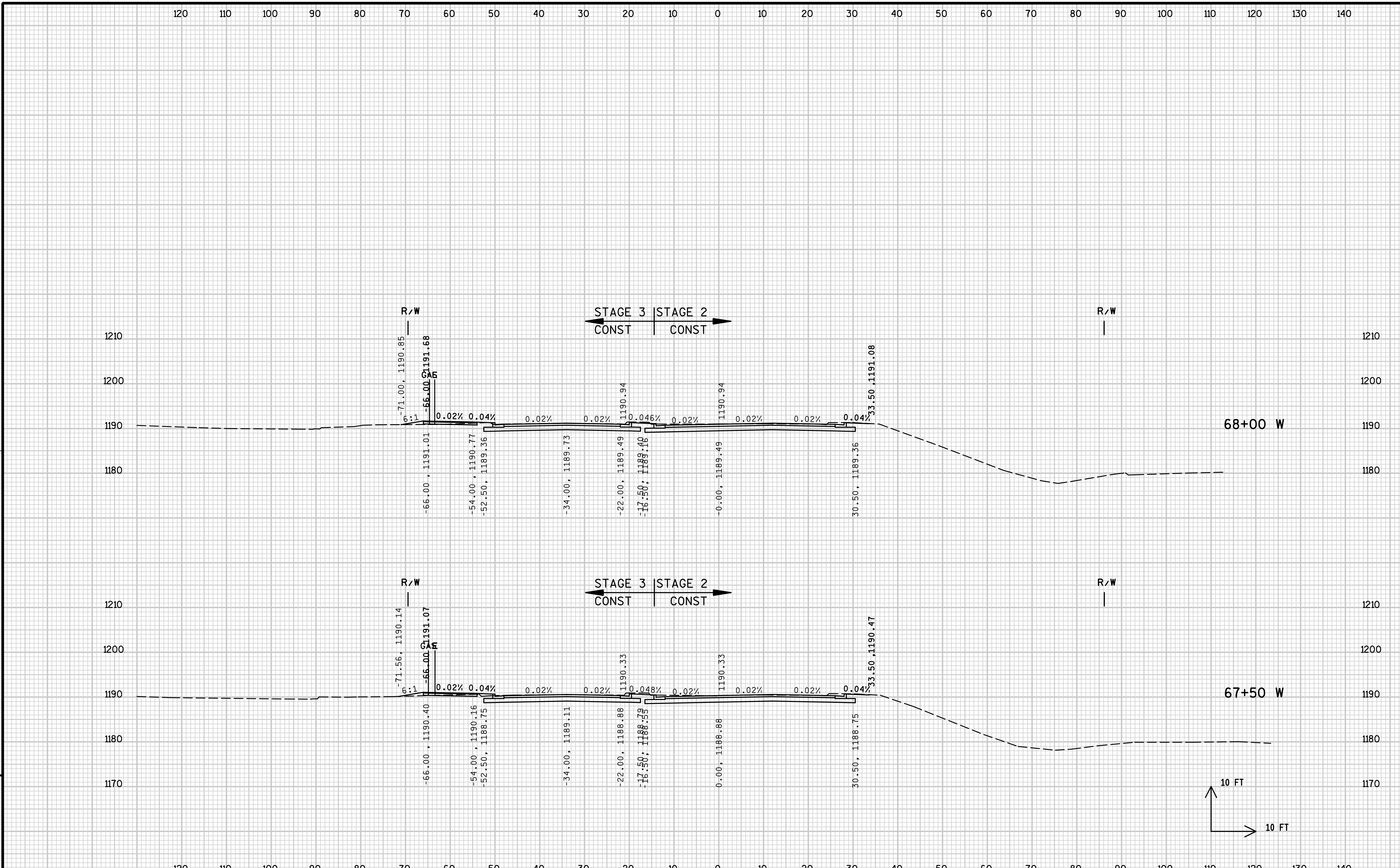
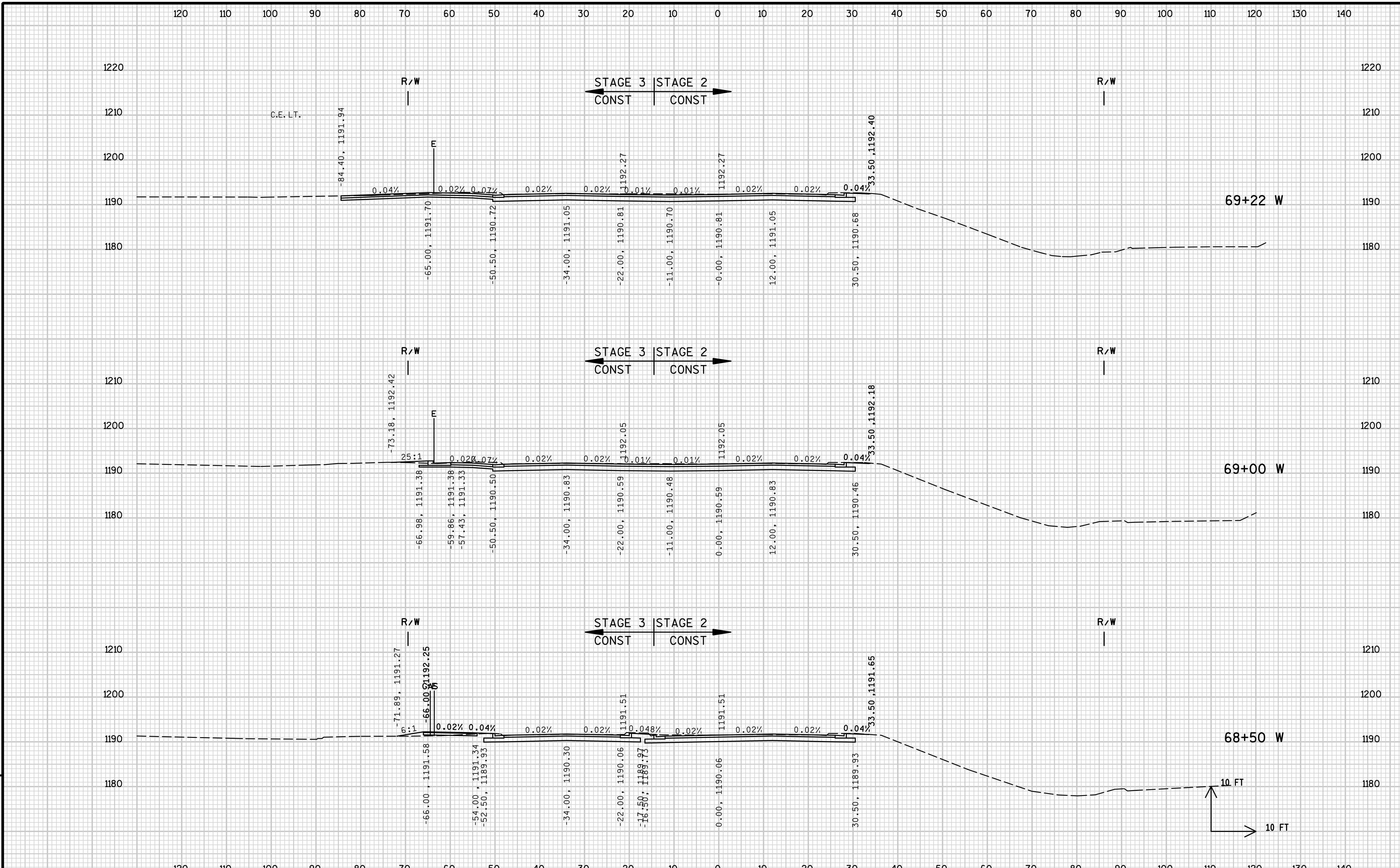
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 350	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

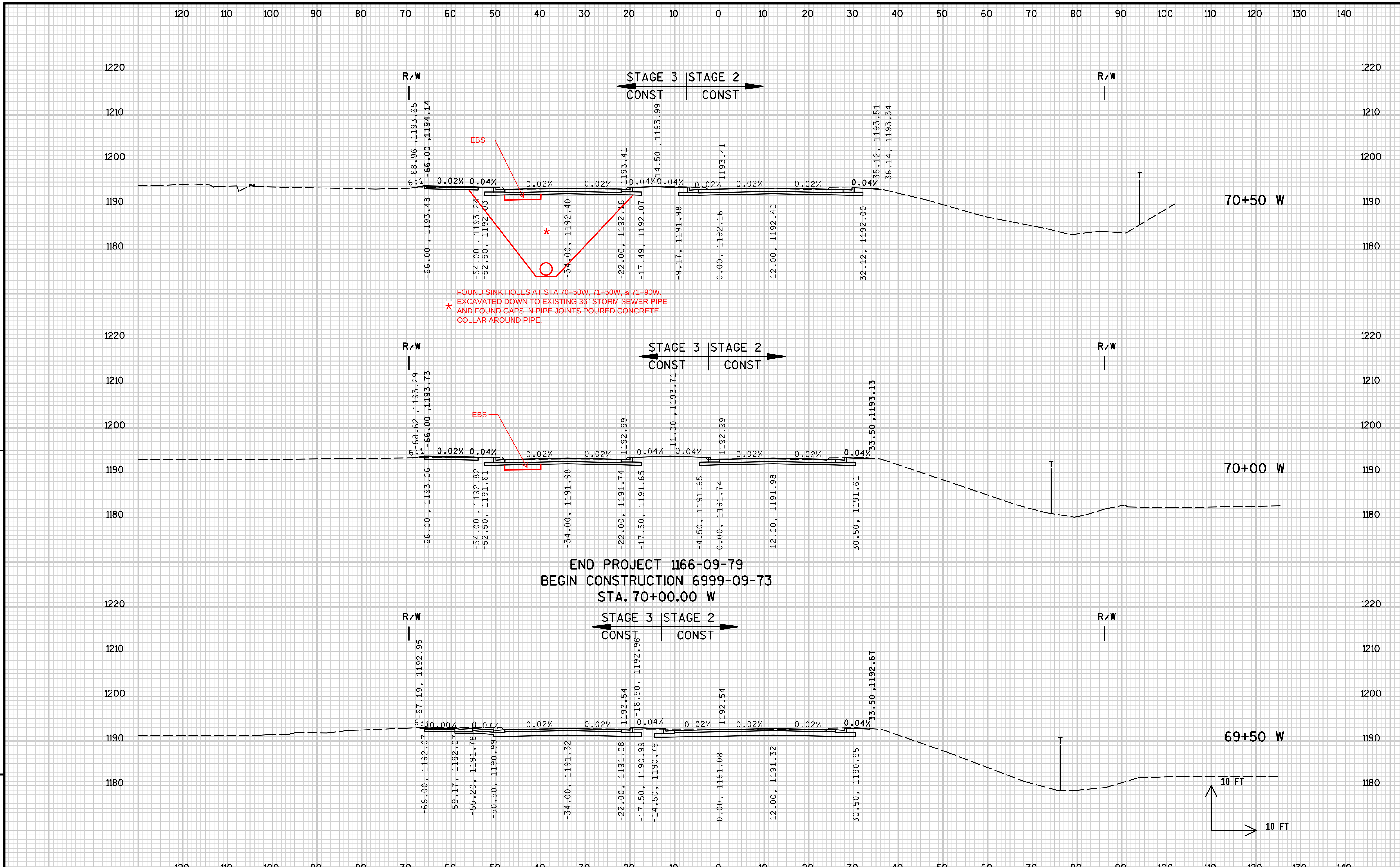


PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 351 E



PROJECT NO:1166-09-79 | HWY: USH 51/STH 29 | COUNTY: MARATHON | CROSS SECTIONS: 28TH AVENUE (W) | SHEET 352 | E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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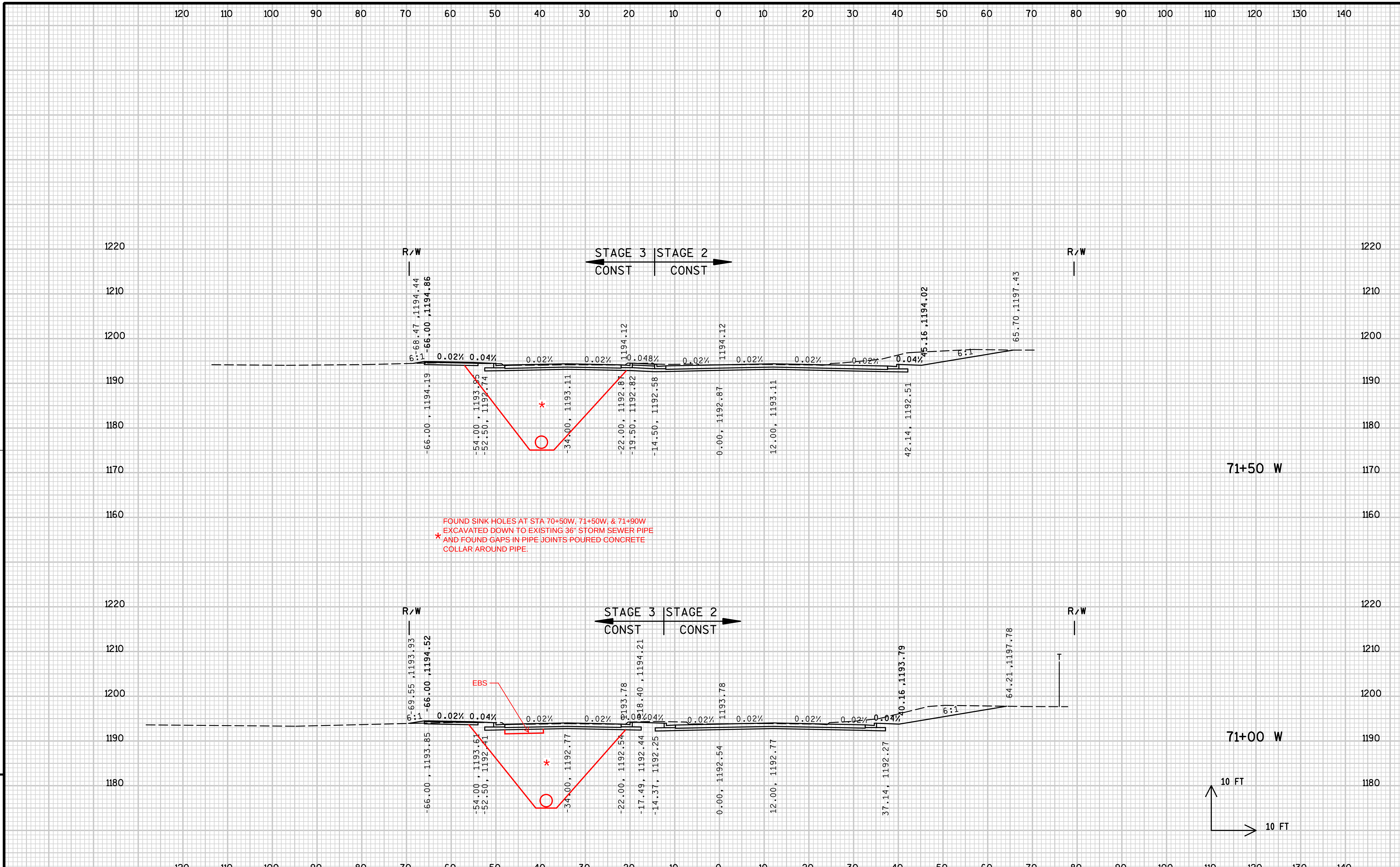
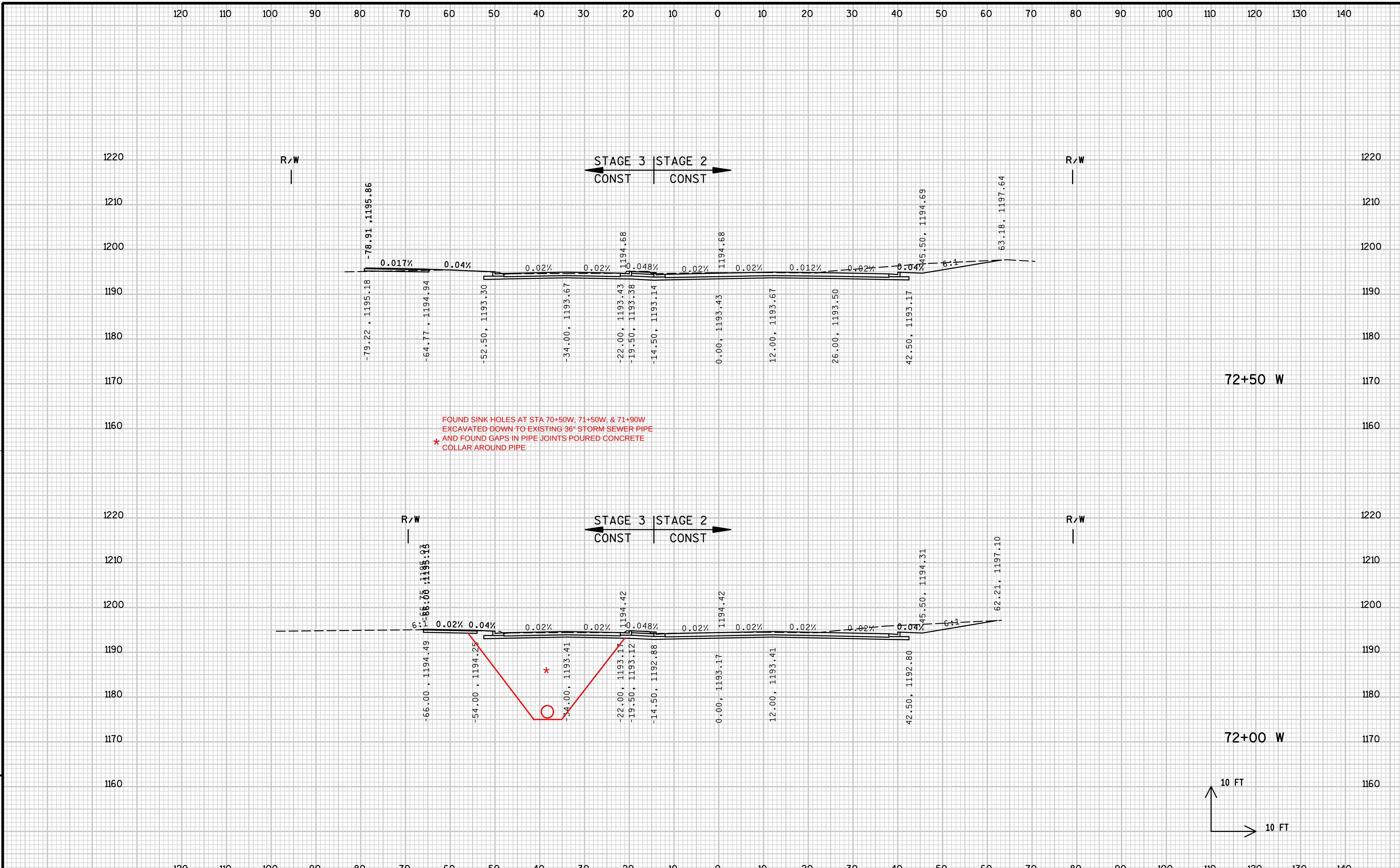
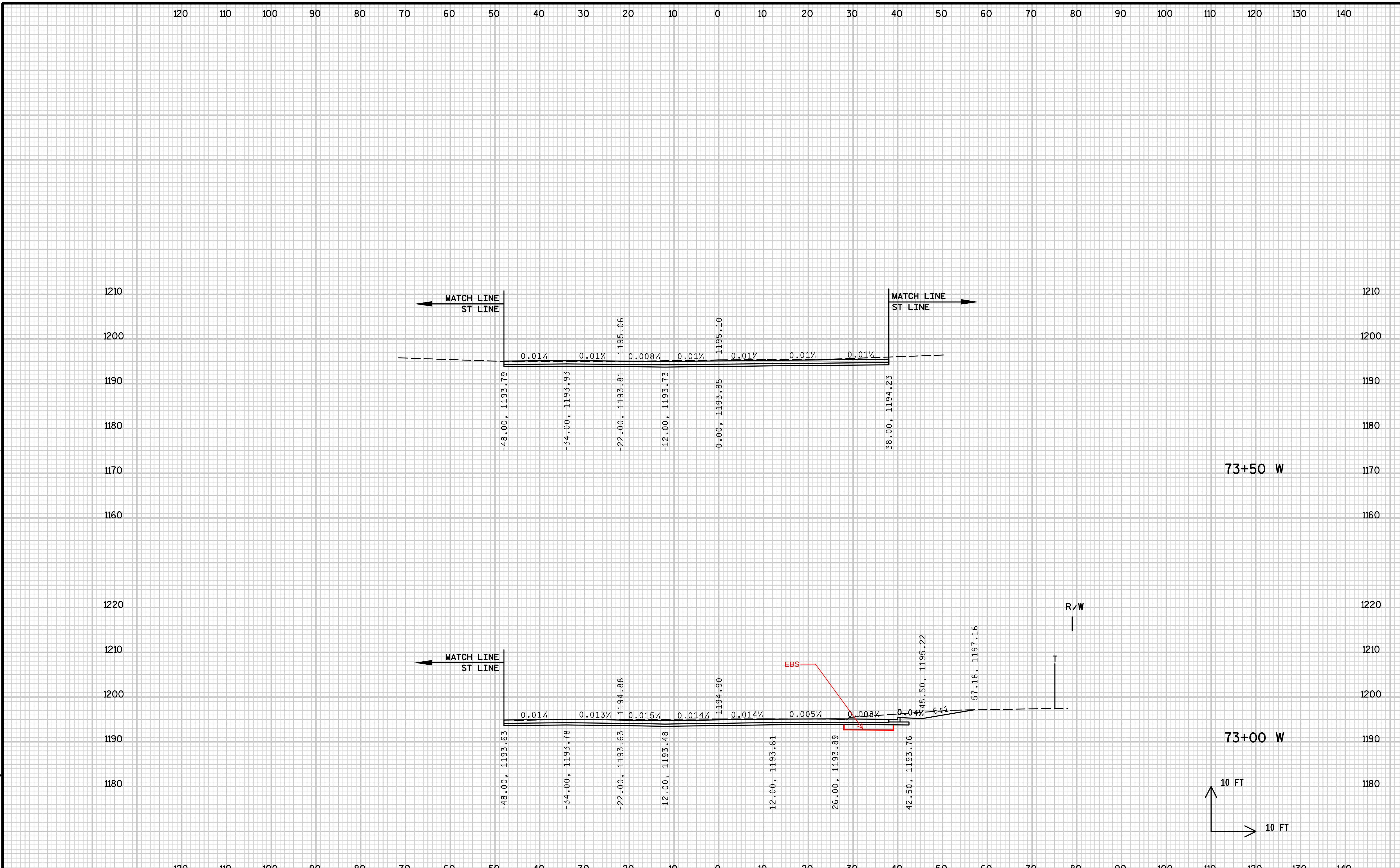
PROJECT NO:1166-09-79 & 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 353	E



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 354	E



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 355	E



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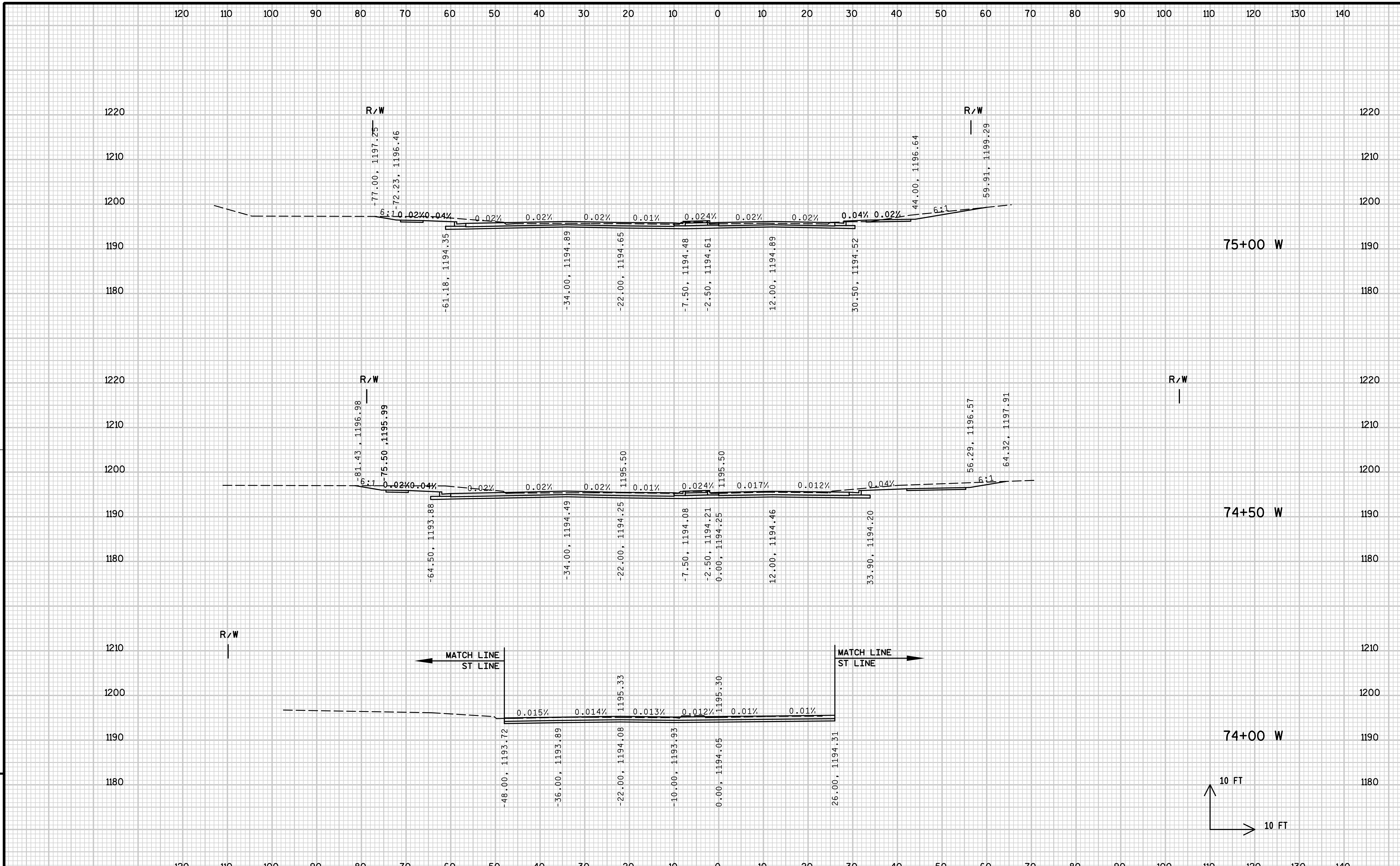
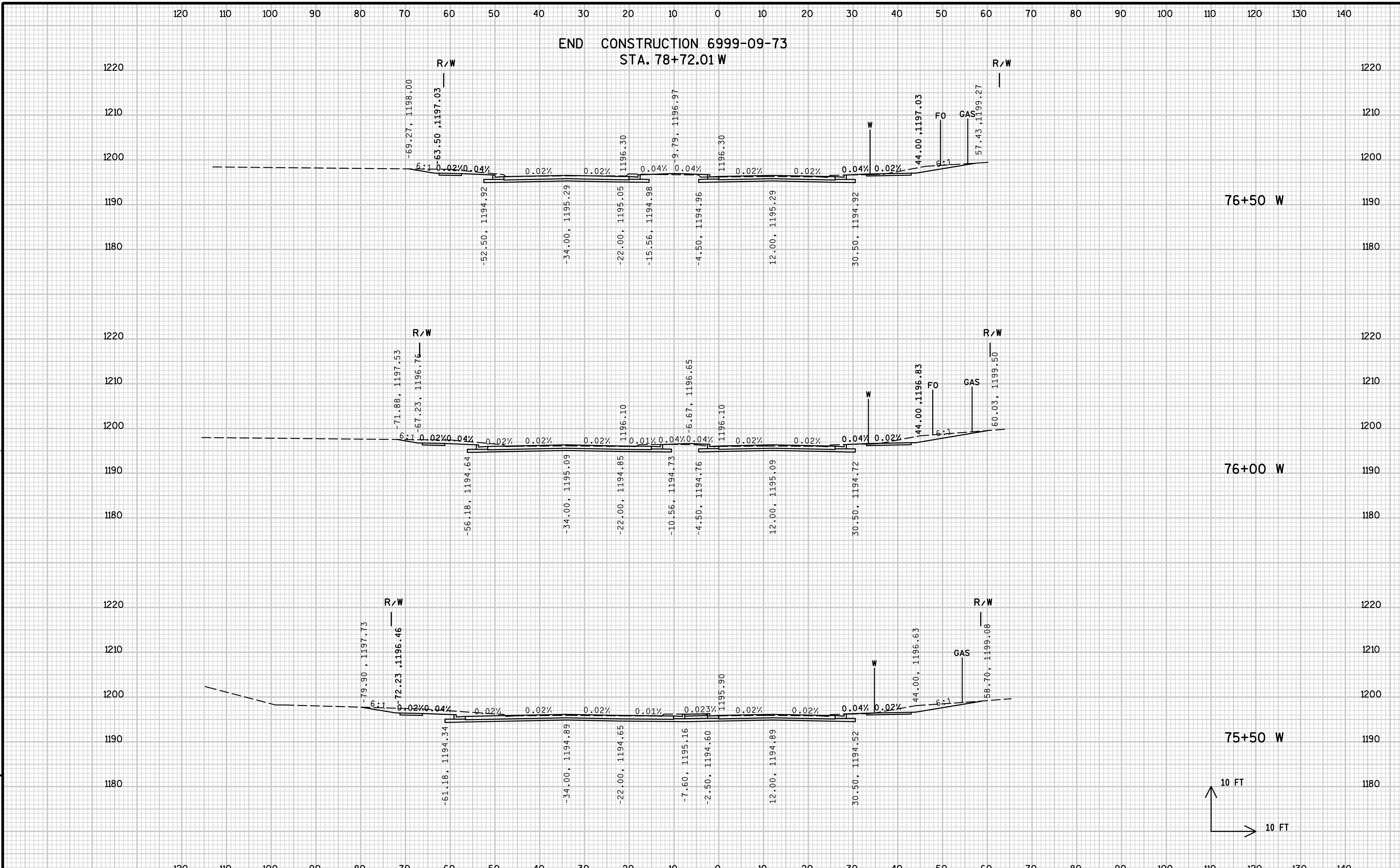
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 356	E

FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

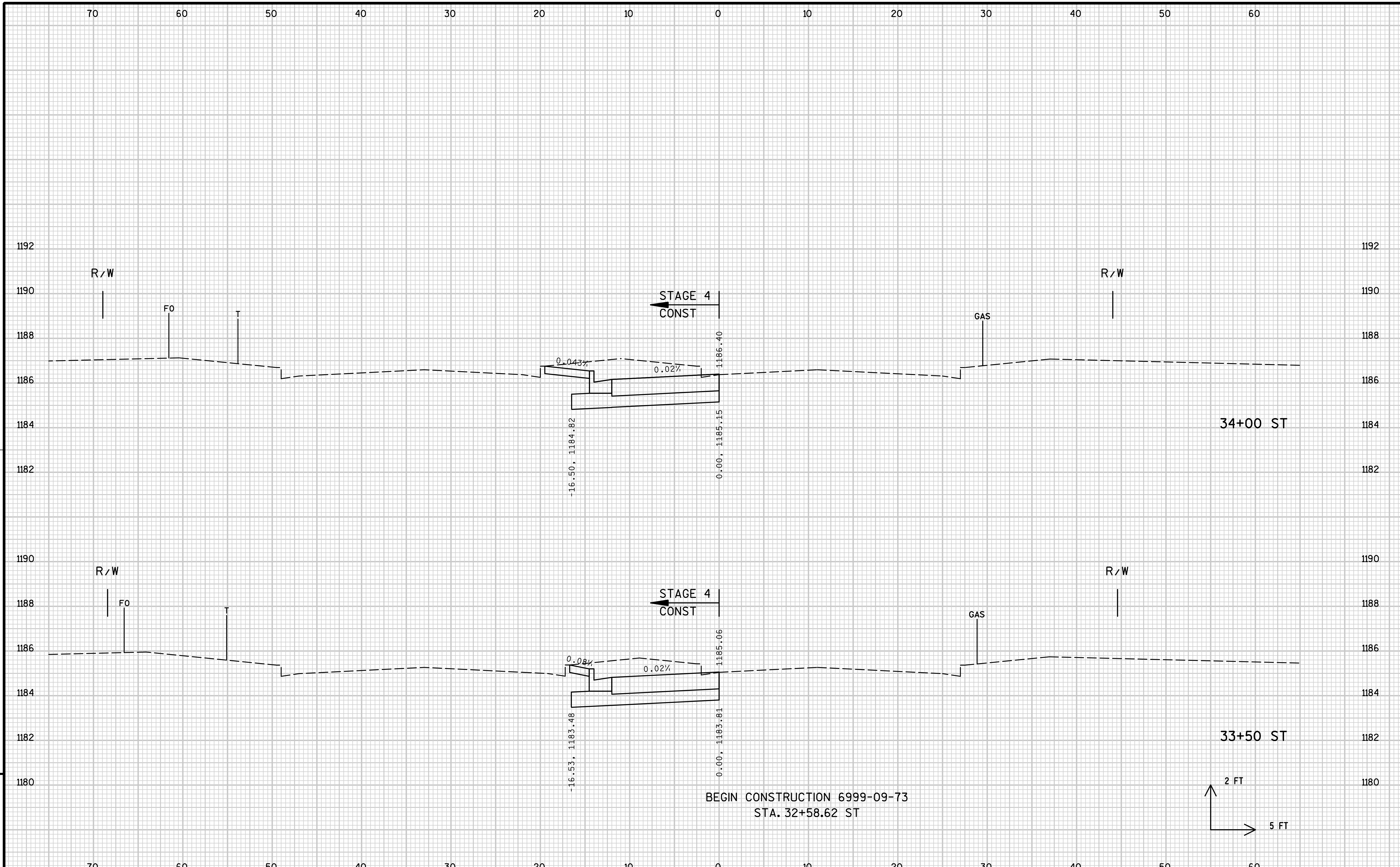


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 357	E



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: 28TH AVENUE (W)	SHEET 358	E

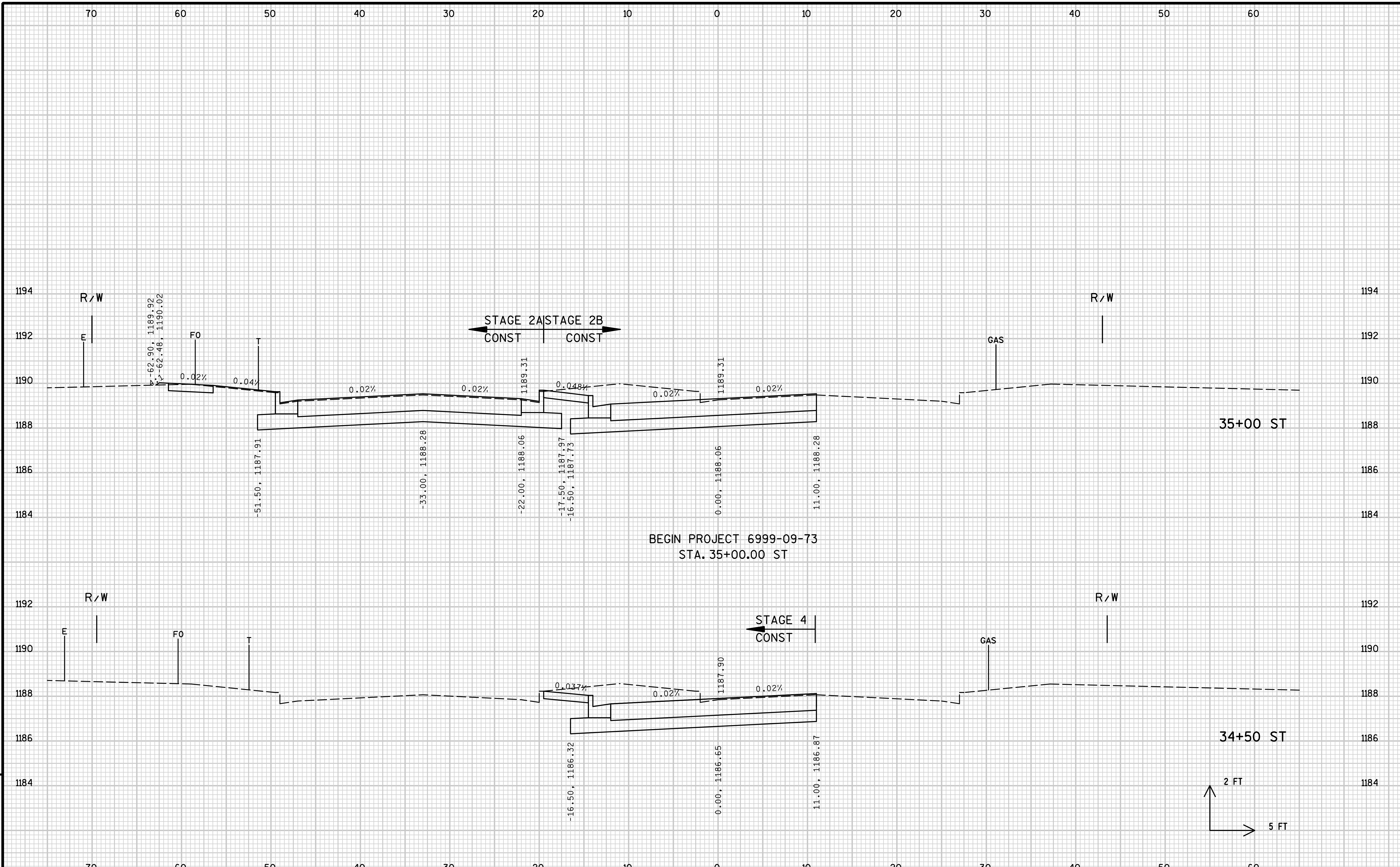
FILE NAME : s:\@SAI\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\W\CROSSSECTION_W.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

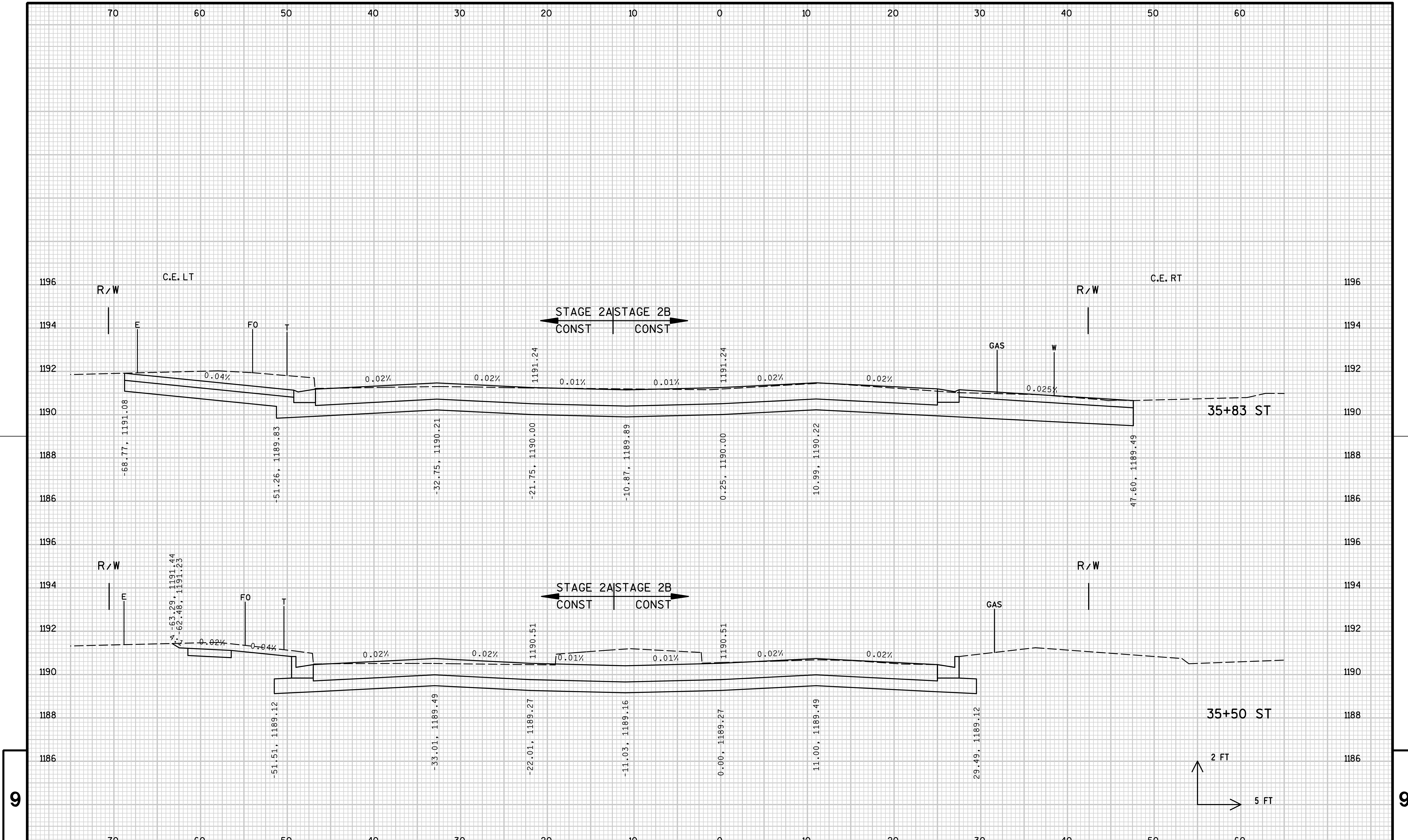


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 359	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

9

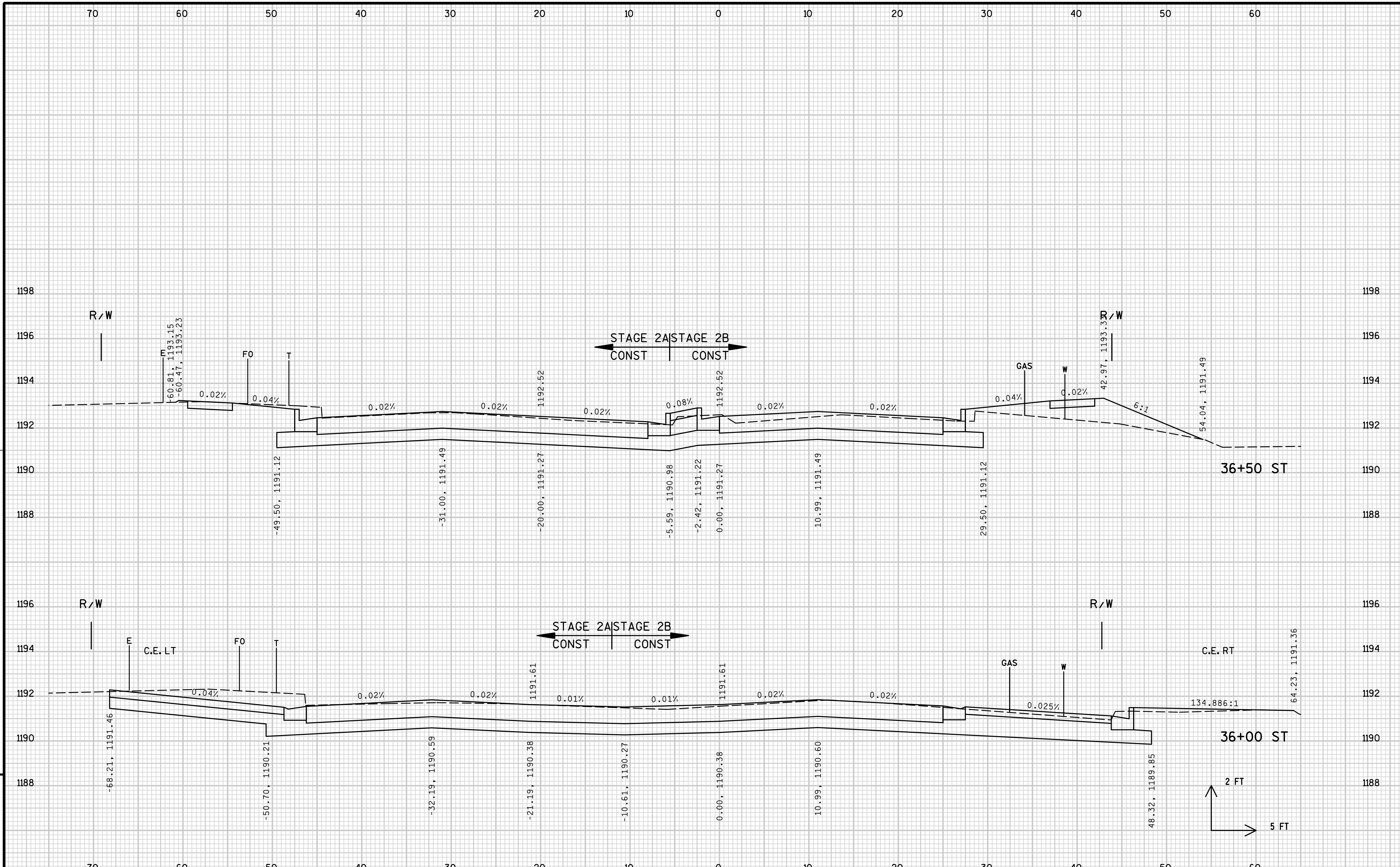

R/W
E
FO
T
-62.90, 1189.92
-62.48, 1190.02
0.02%
0.04%
0.02%
0.02%
1189.31
STAGE 2A
CONST
STAGE 2B
CONST
0.048%
0.02%
1189.31
0.02%
GAS
R/W
-51.50, 1187.91
-33.00, 1188.28
-22.00, 1188.06
-17.50, 1187.97
-16.50, 1187.73
0.00, 1188.06
11.00, 1188.28
35+00 ST
BEGIN PROJECT 6999-09-73
STA. 35+00.00 ST
R/W
E
FO
T
STAGE 4
CONST
0.037%
0.02%
1187.90
0.02%
GAS
R/W
-16.50, 1186.32
0.00, 1186.65
11.00, 1186.87
34+50 ST
2 FT
5 FT



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 361	E

FILE NAME : s:\asai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

9



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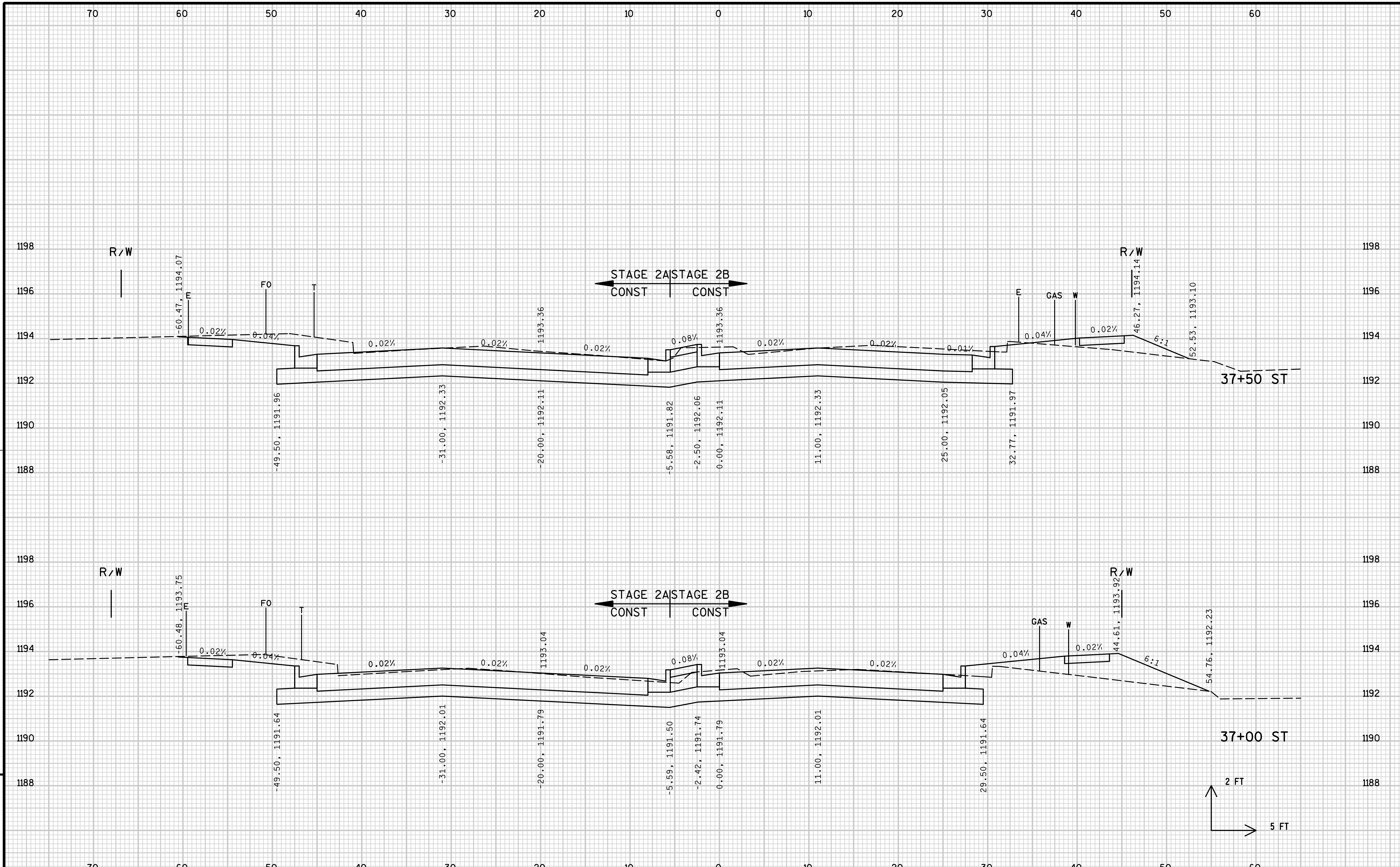
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 362	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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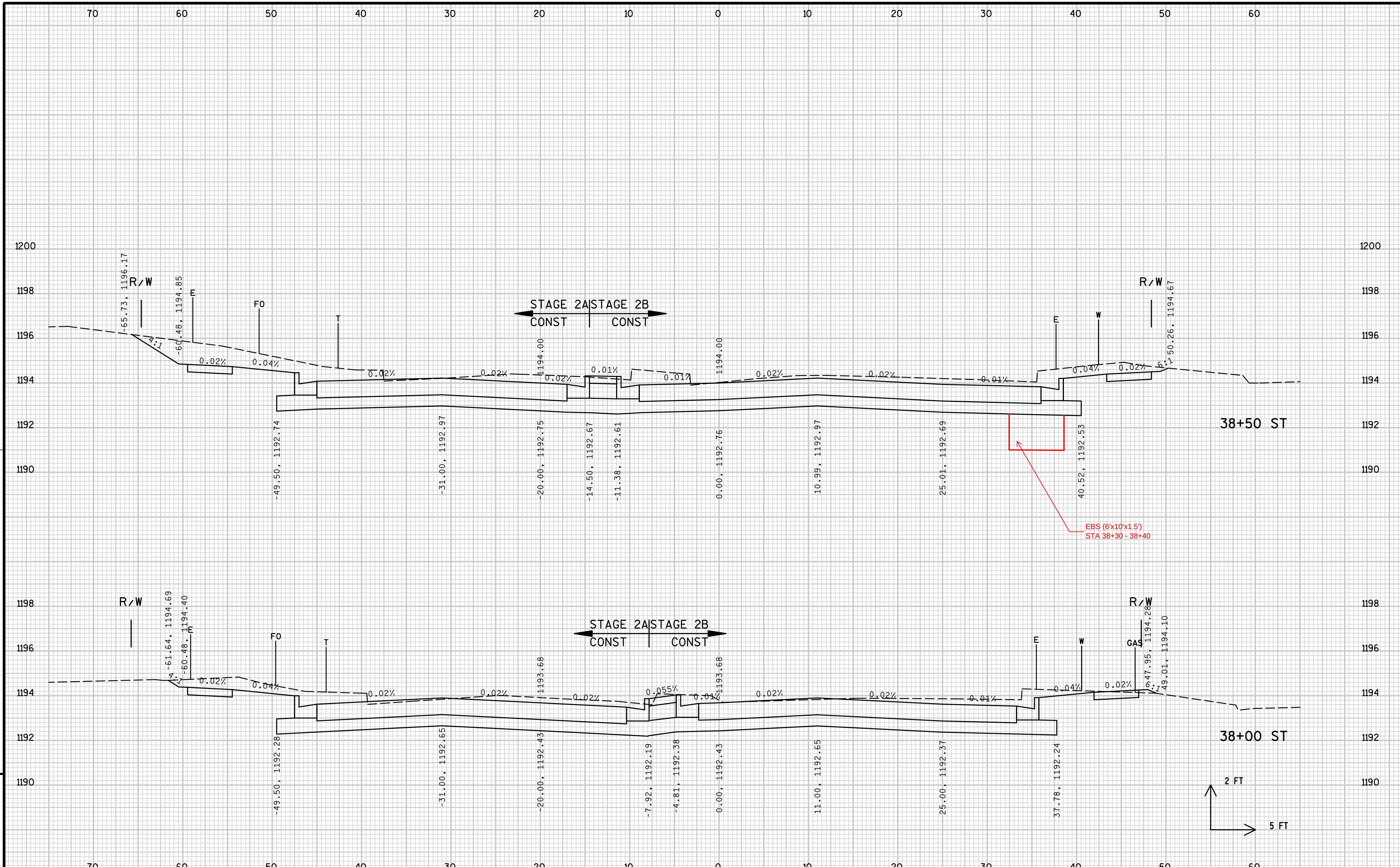
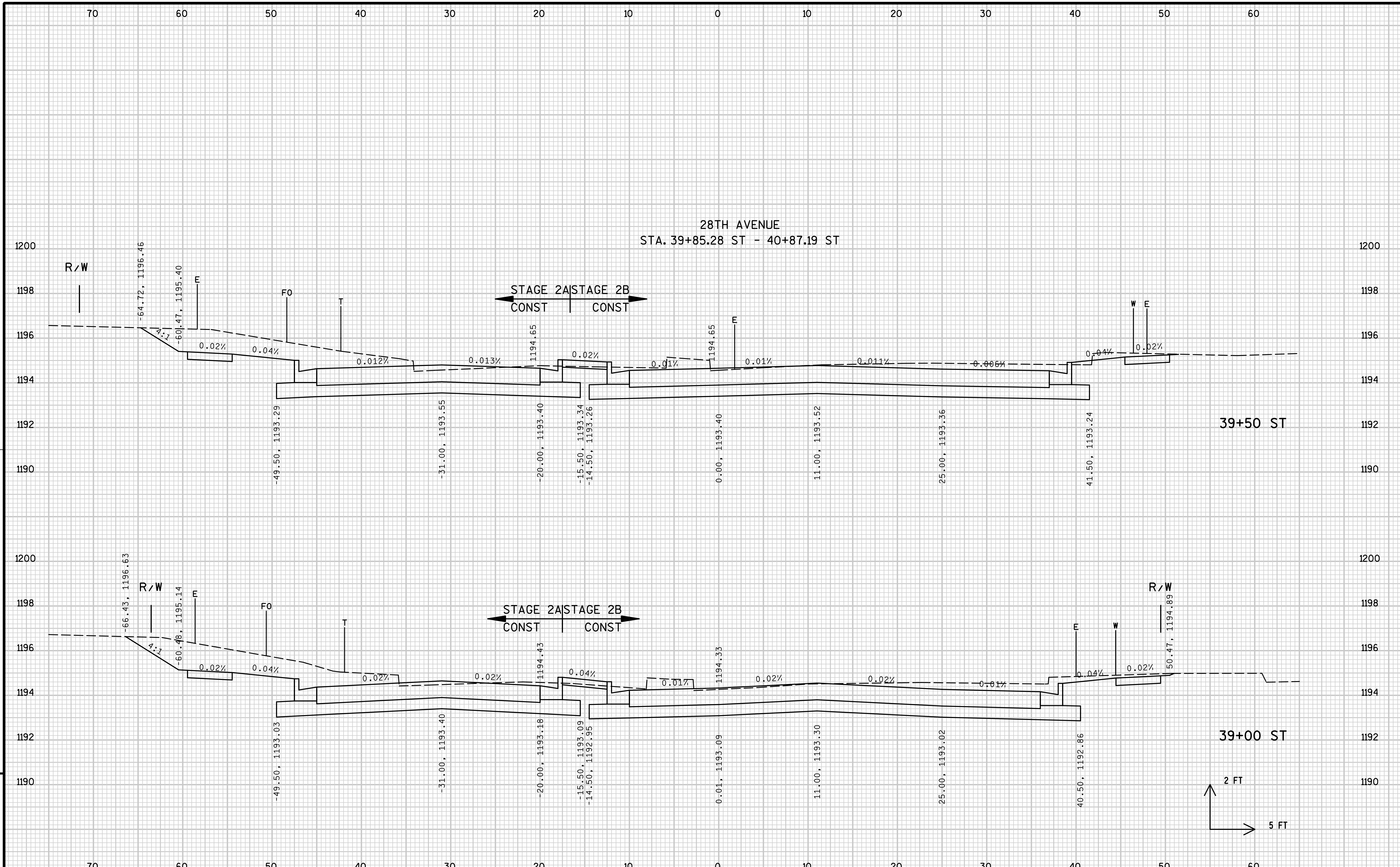
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 363	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 364	E

FILE NAME : s:\asai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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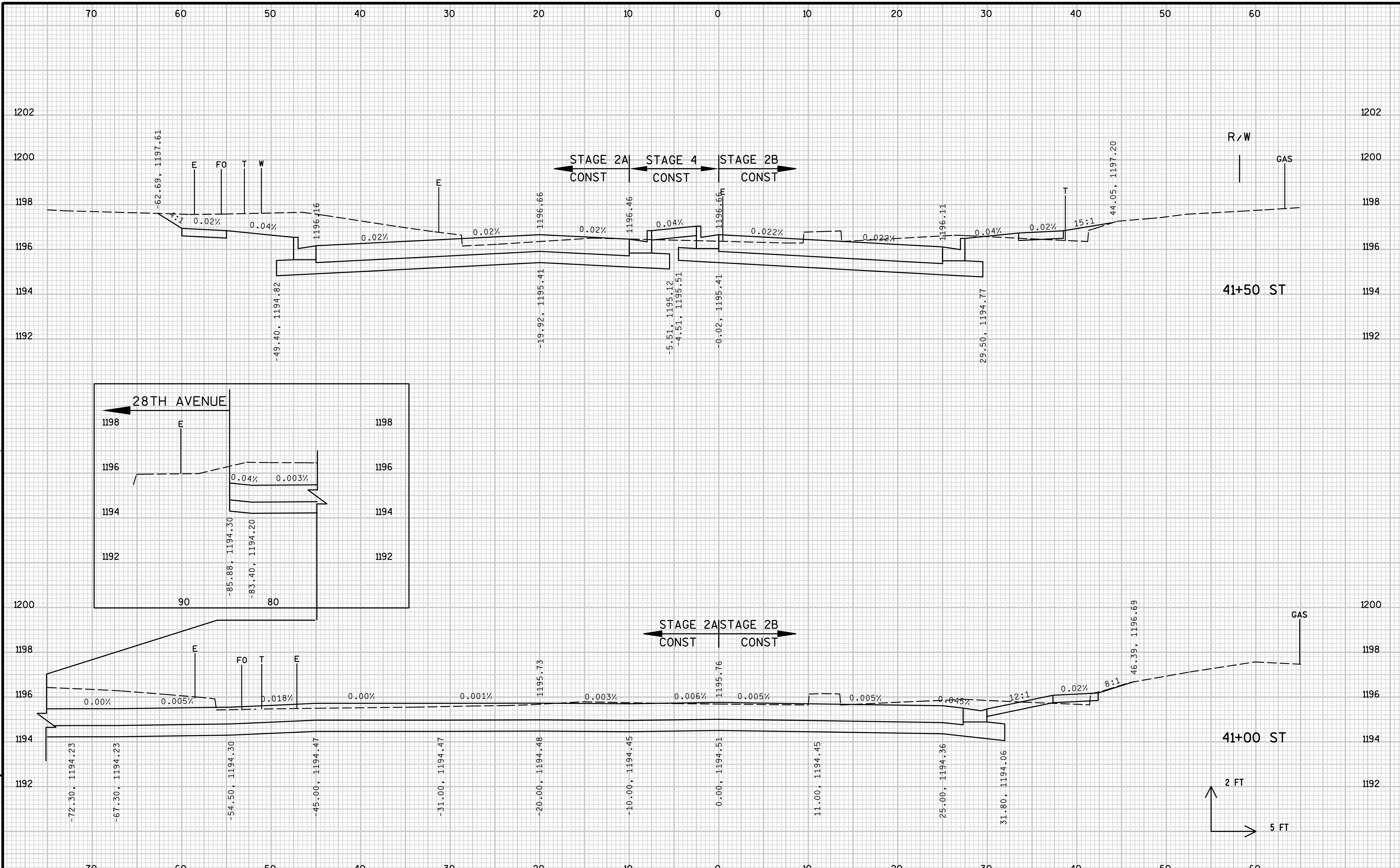
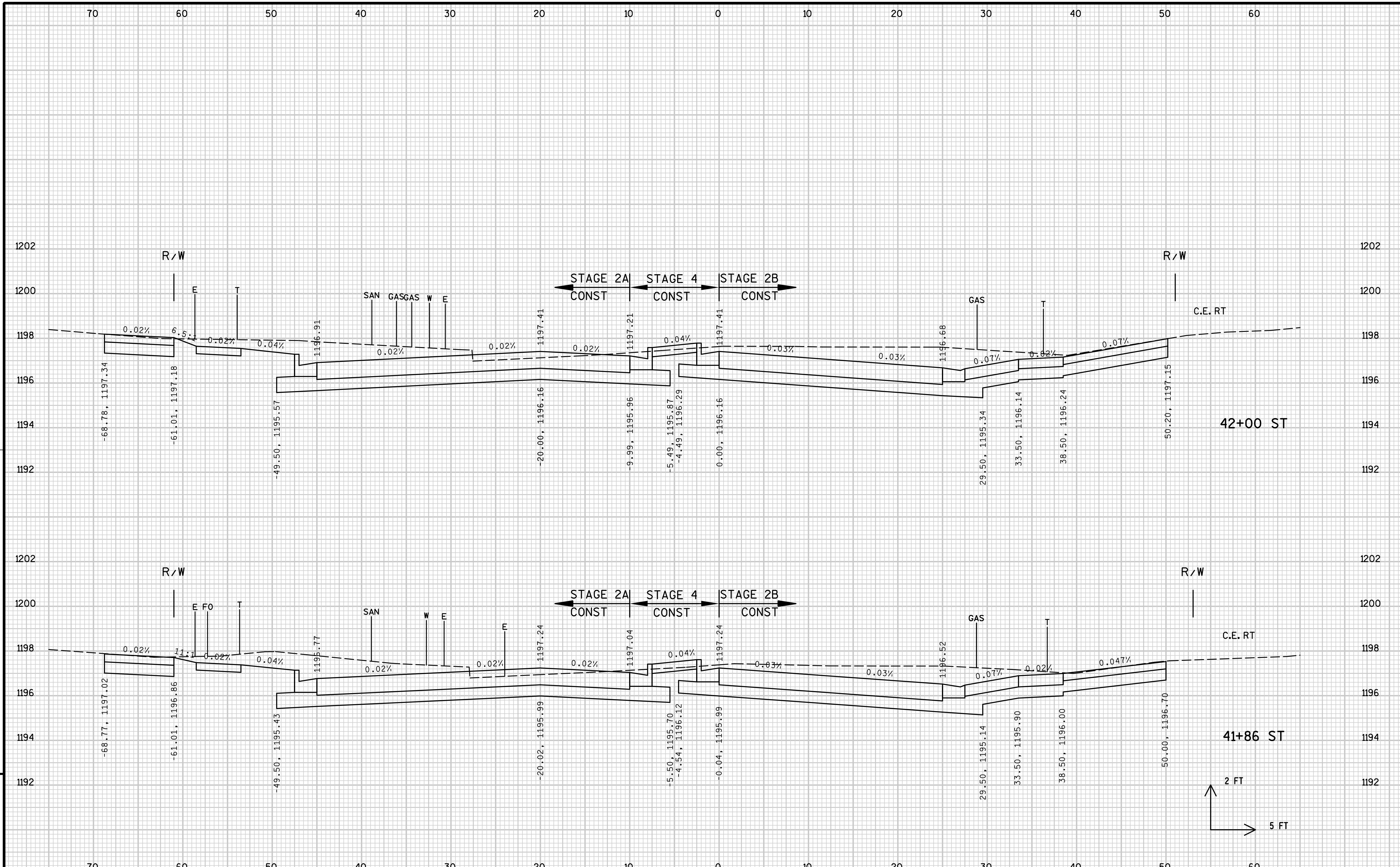
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 365	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 366	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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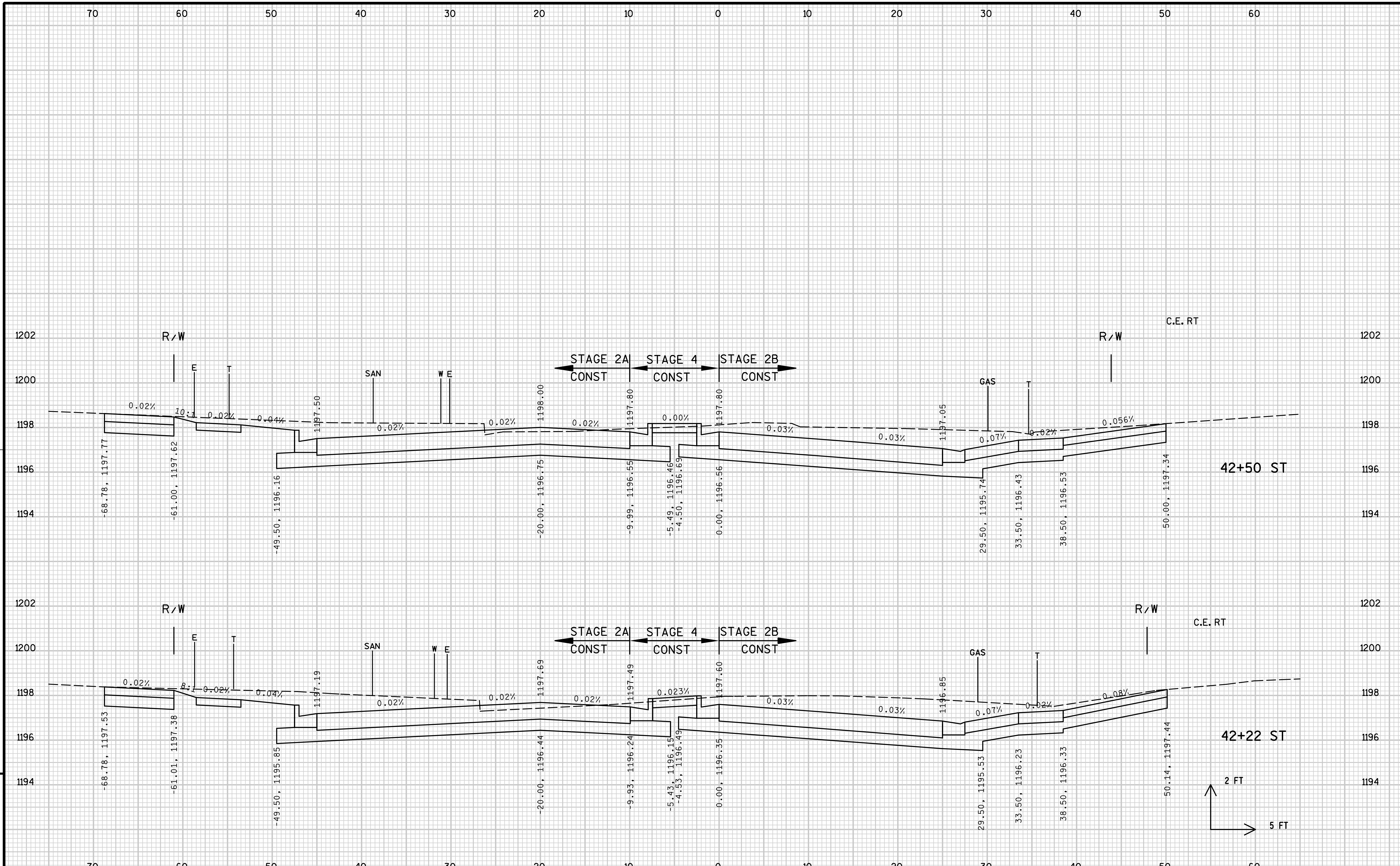
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 367	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 368	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

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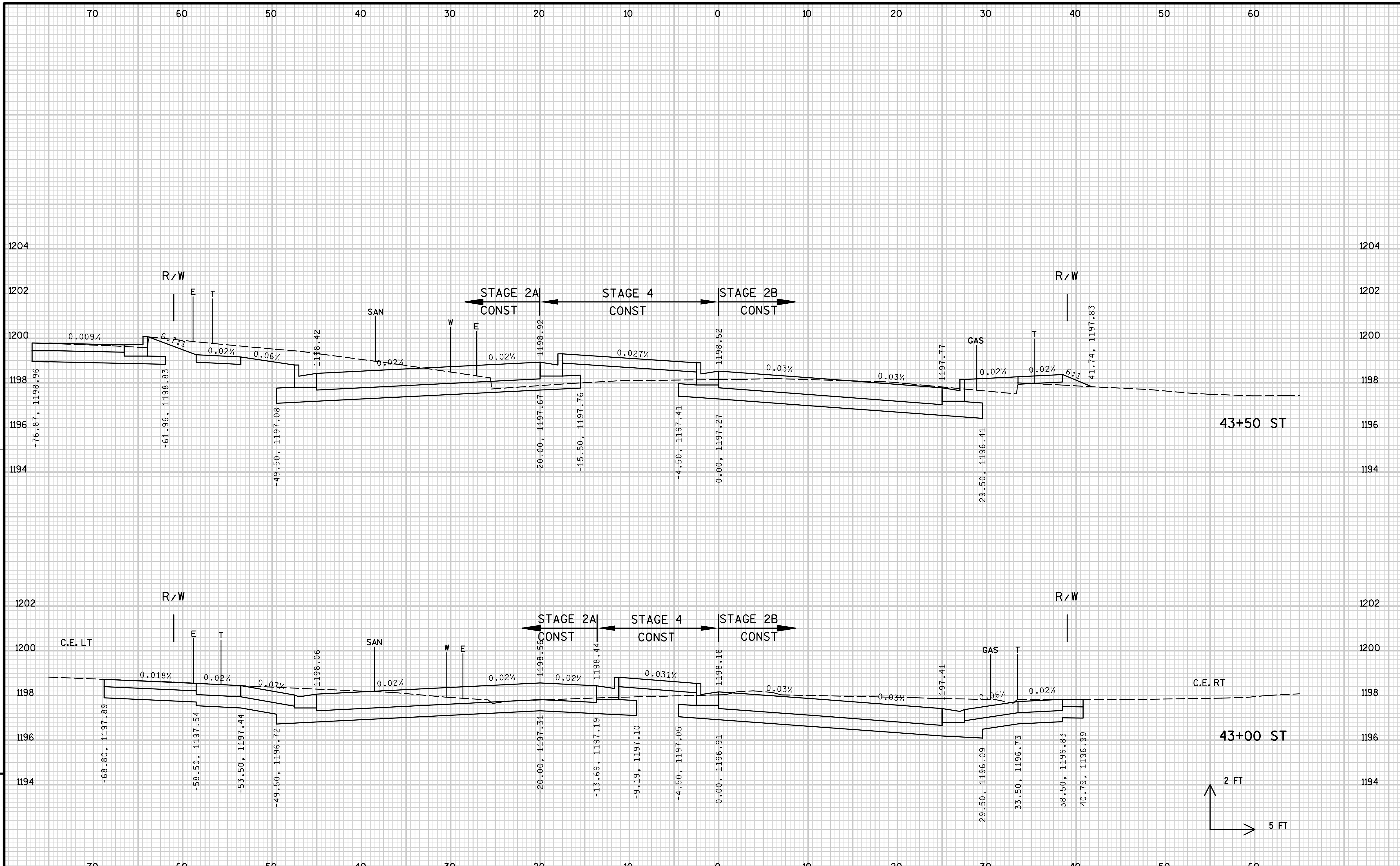
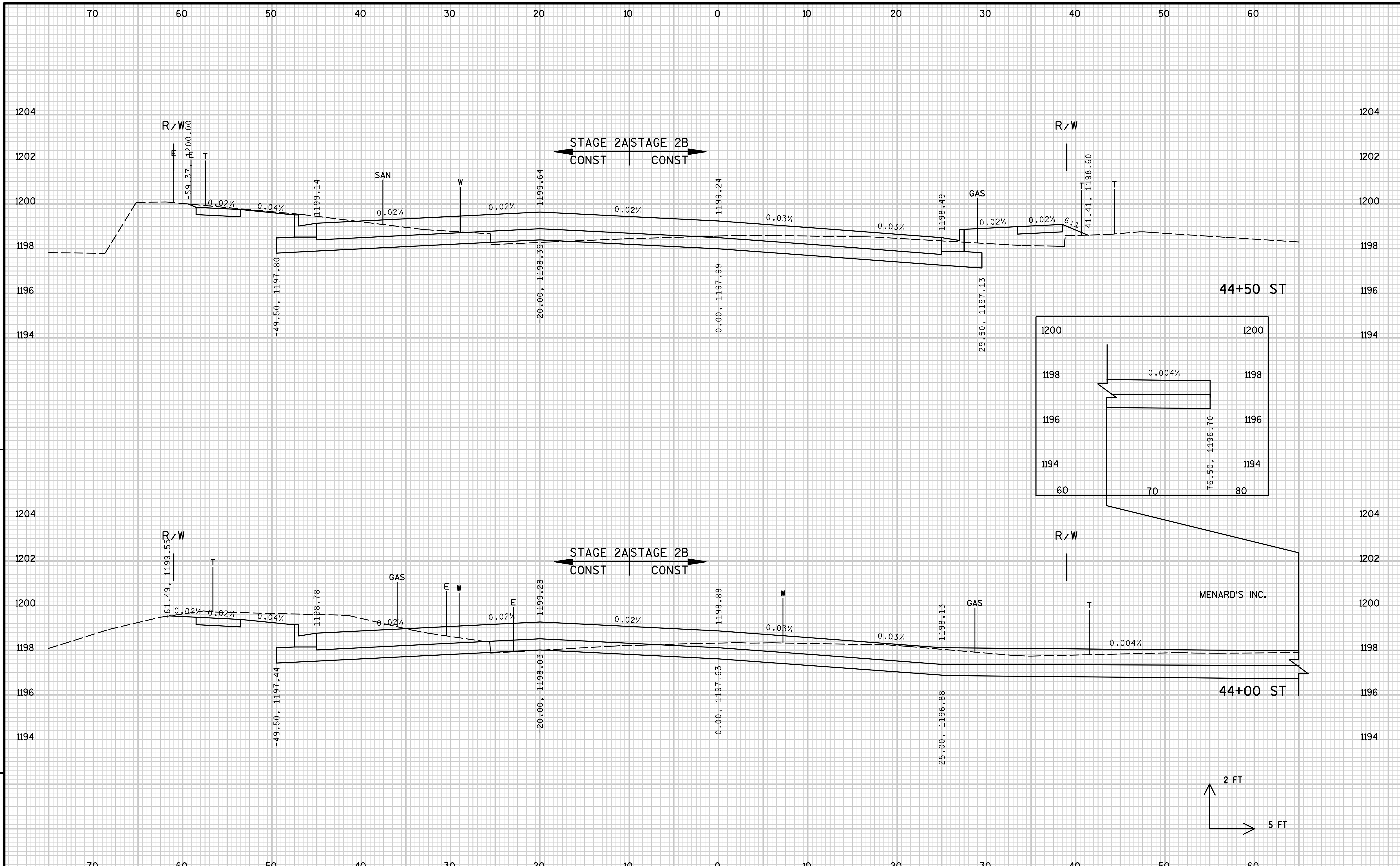


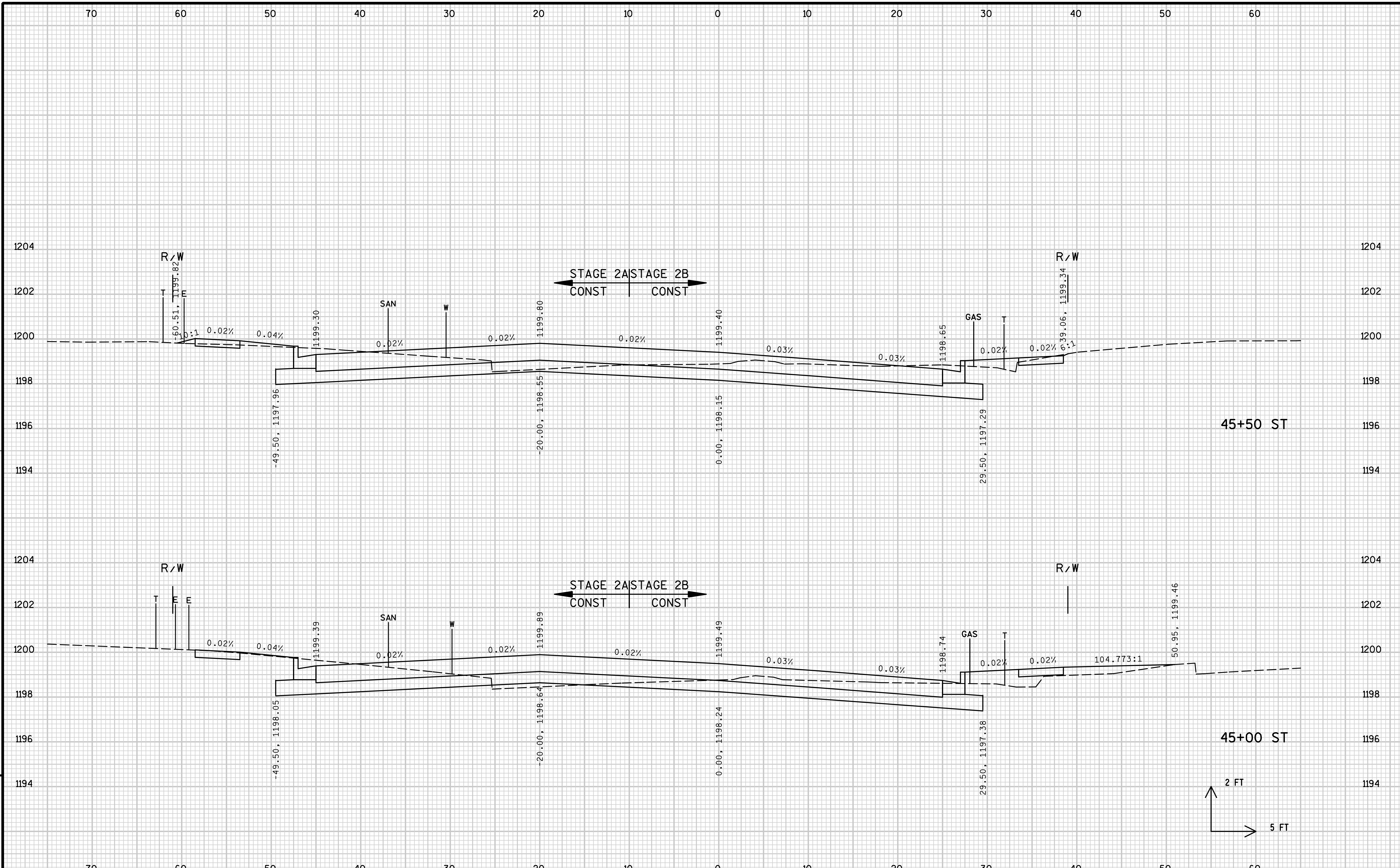
PROJECT NO: 6999-09-73 | HWY: USH 51/STH 29 | COUNTY: MARATHON | CROSS SECTIONS: STEWART AVENUE | SHEET 369 | E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 370	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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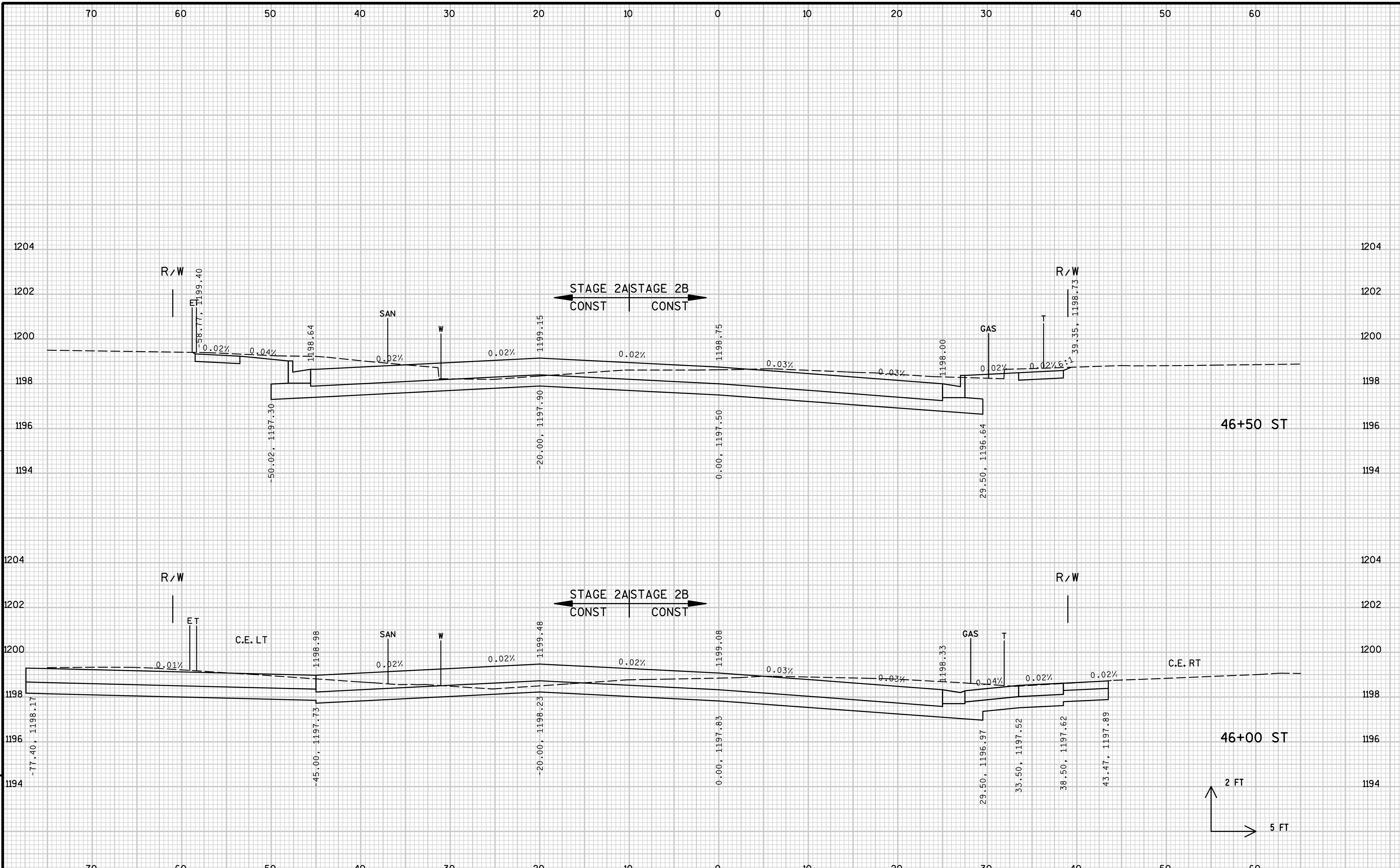
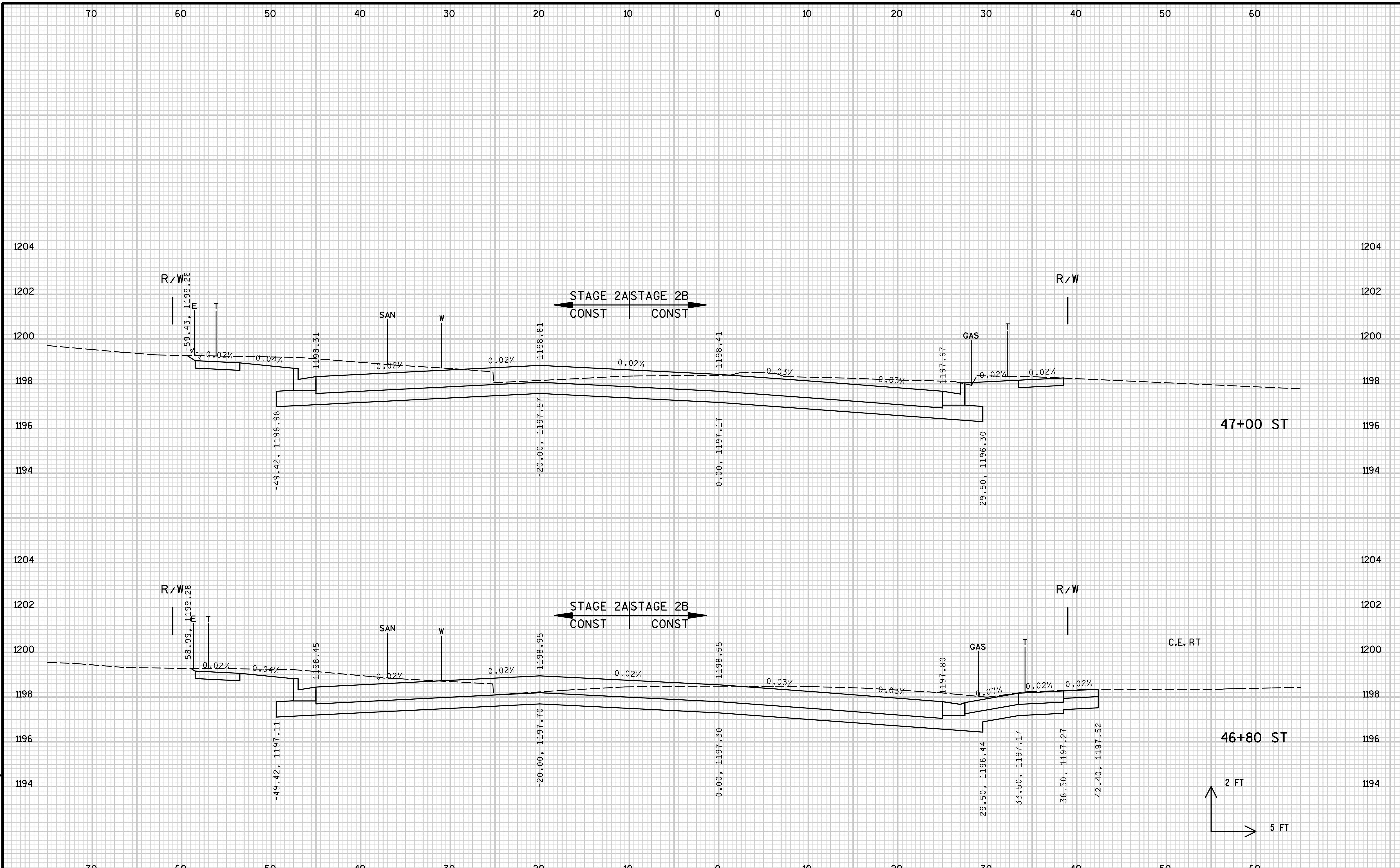
PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 371	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

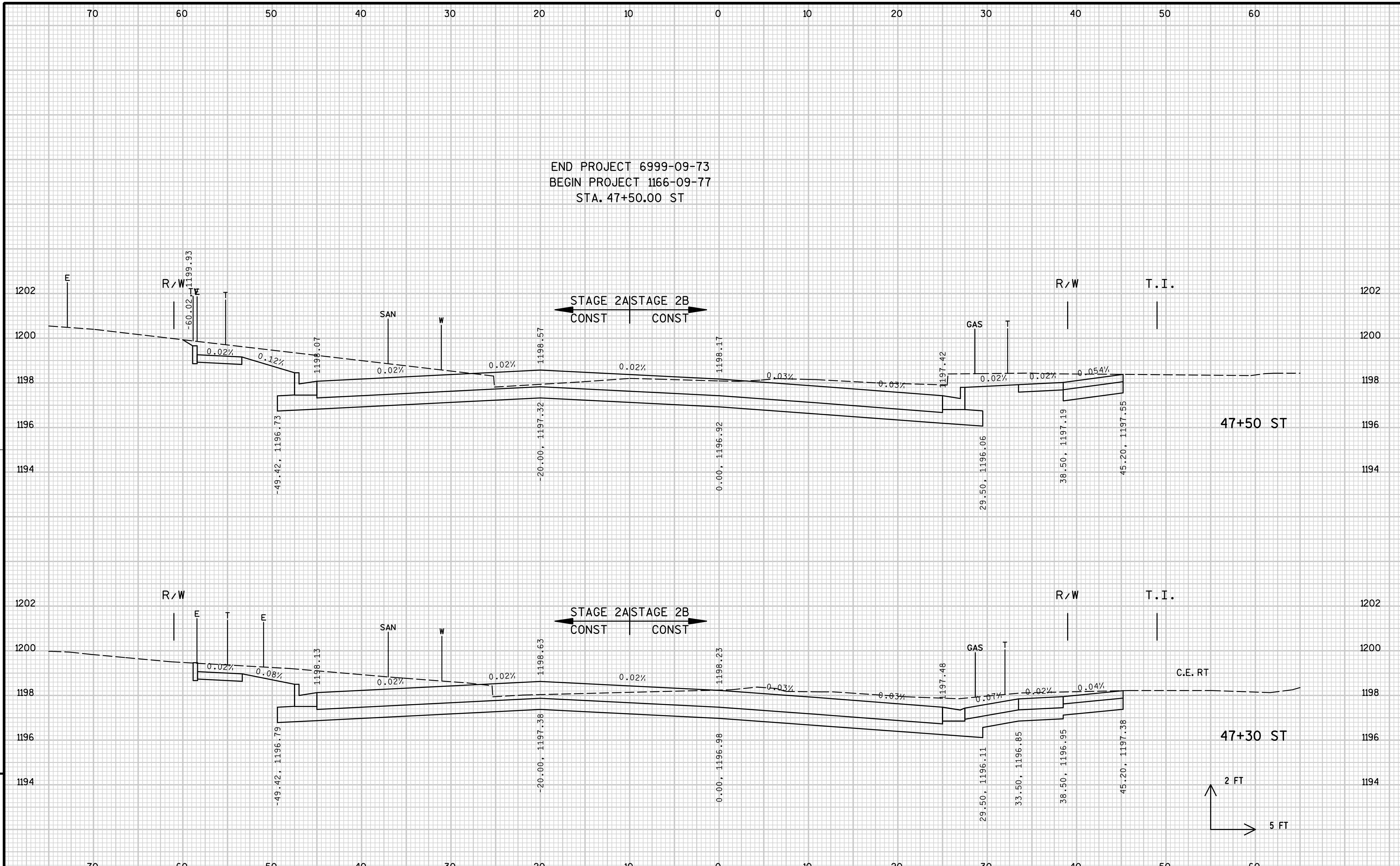


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 372	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\st\crosssections_st.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

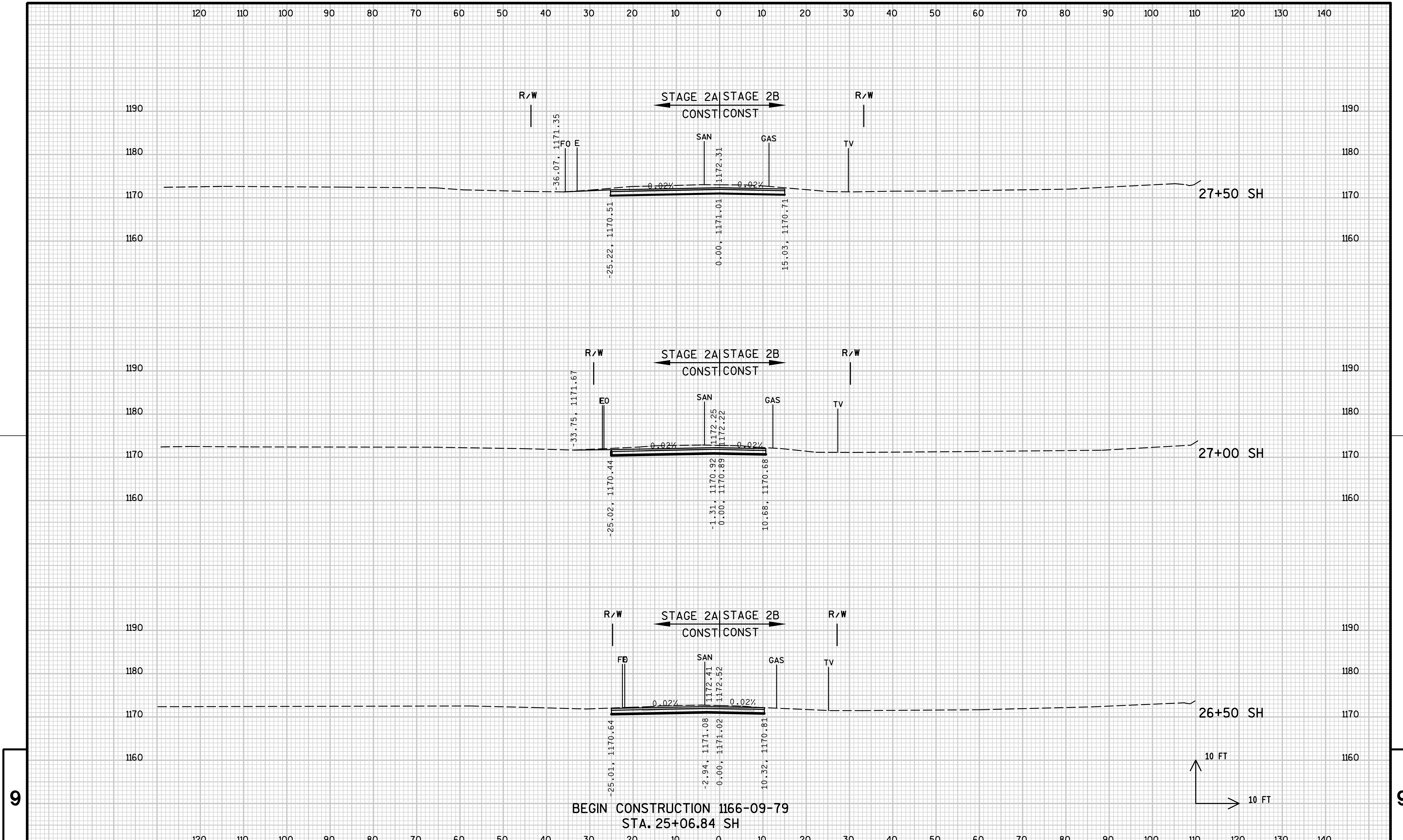


PROJECT NO: 6999-09-73	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 373	E



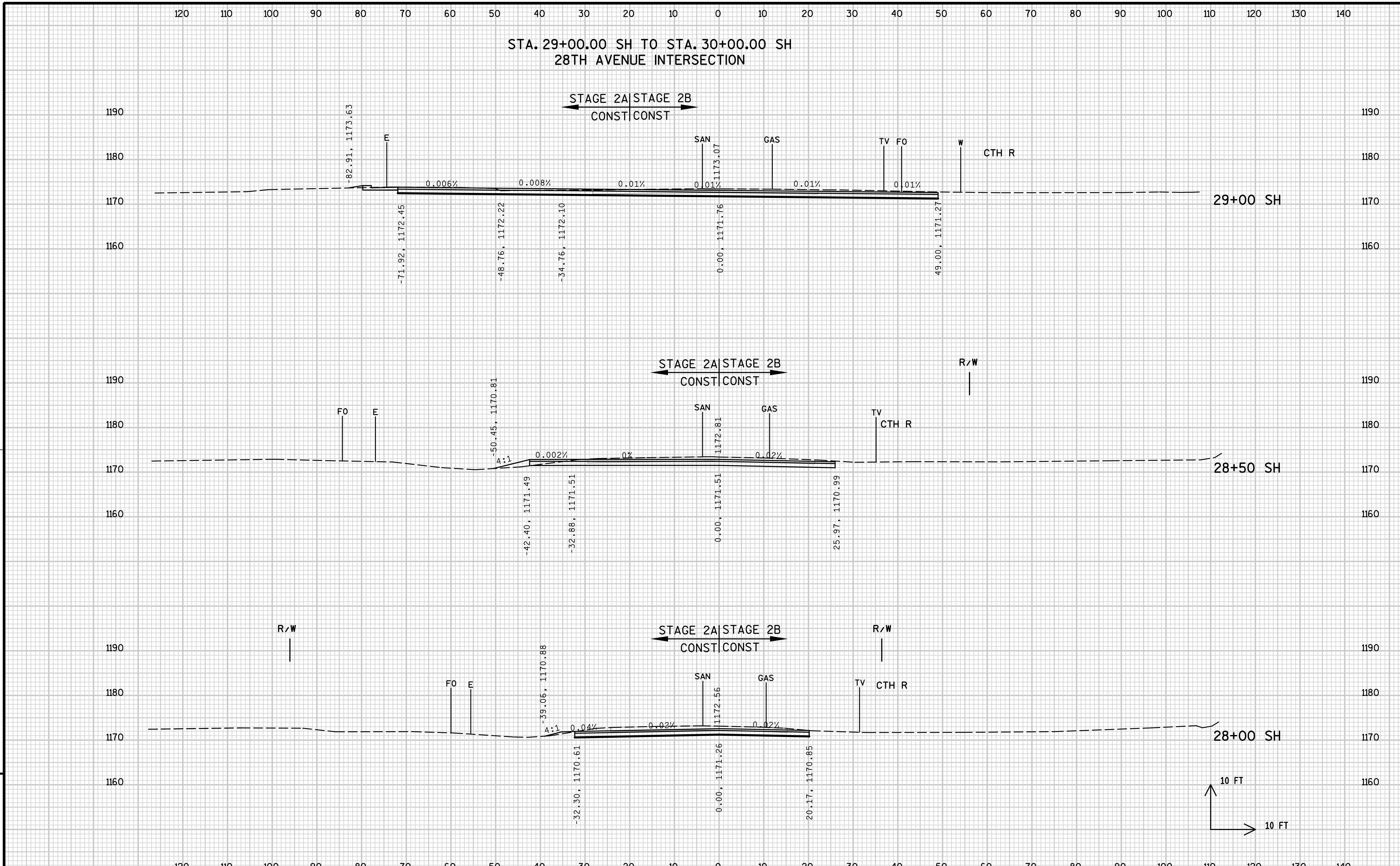
PROJECT NO:6699-09-73 & 1166-09-77	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: STEWART AVENUE	SHEET 374	E

FILE NAME : S:\@Sai\051--100\089\100\Design_Projects\D4_11660900EC\Design\0977\ST\CROSSSECTIONS_ST.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



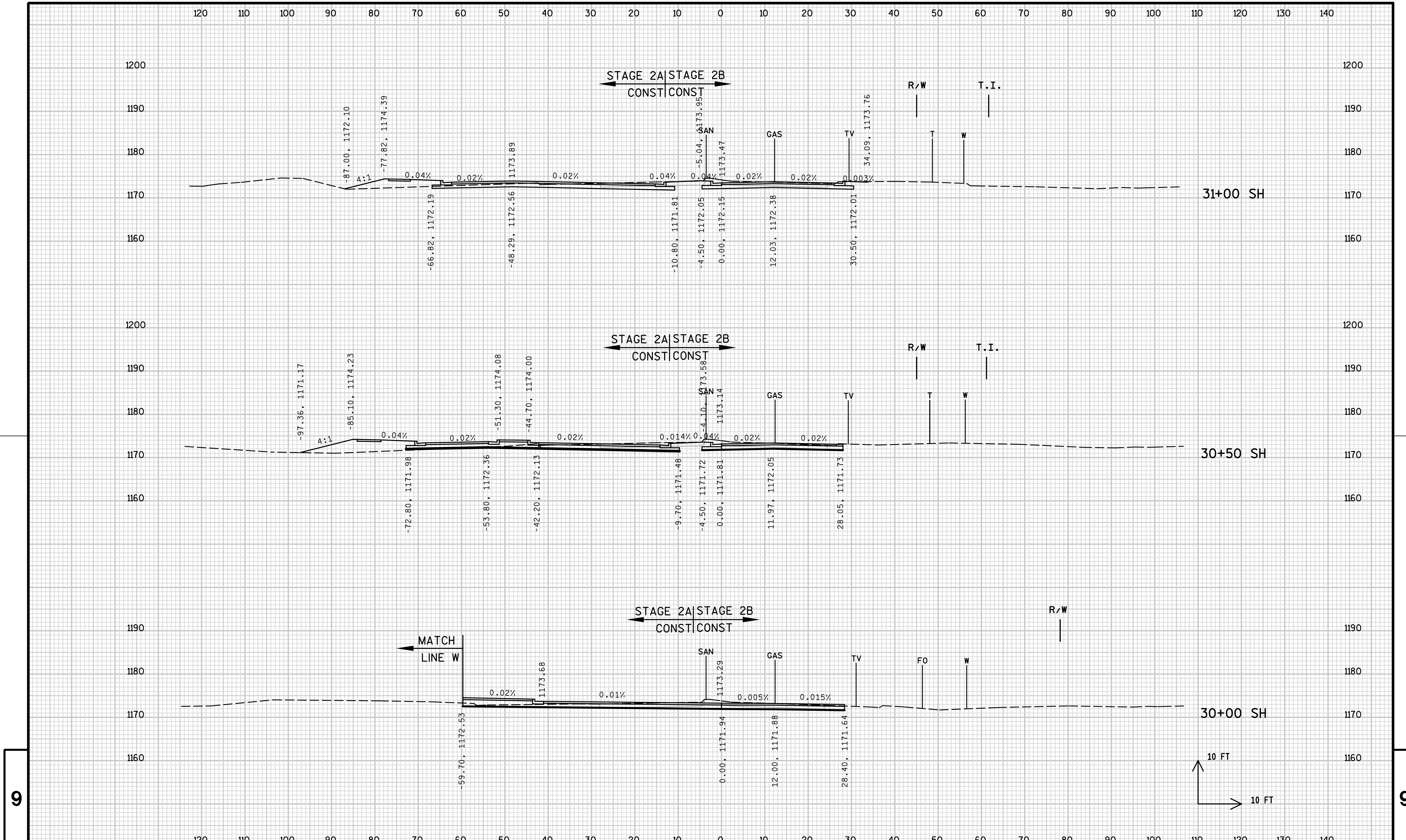
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: SHERMAN STREET (SH)	SHEET 386	E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\sh\crosssection_sh.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



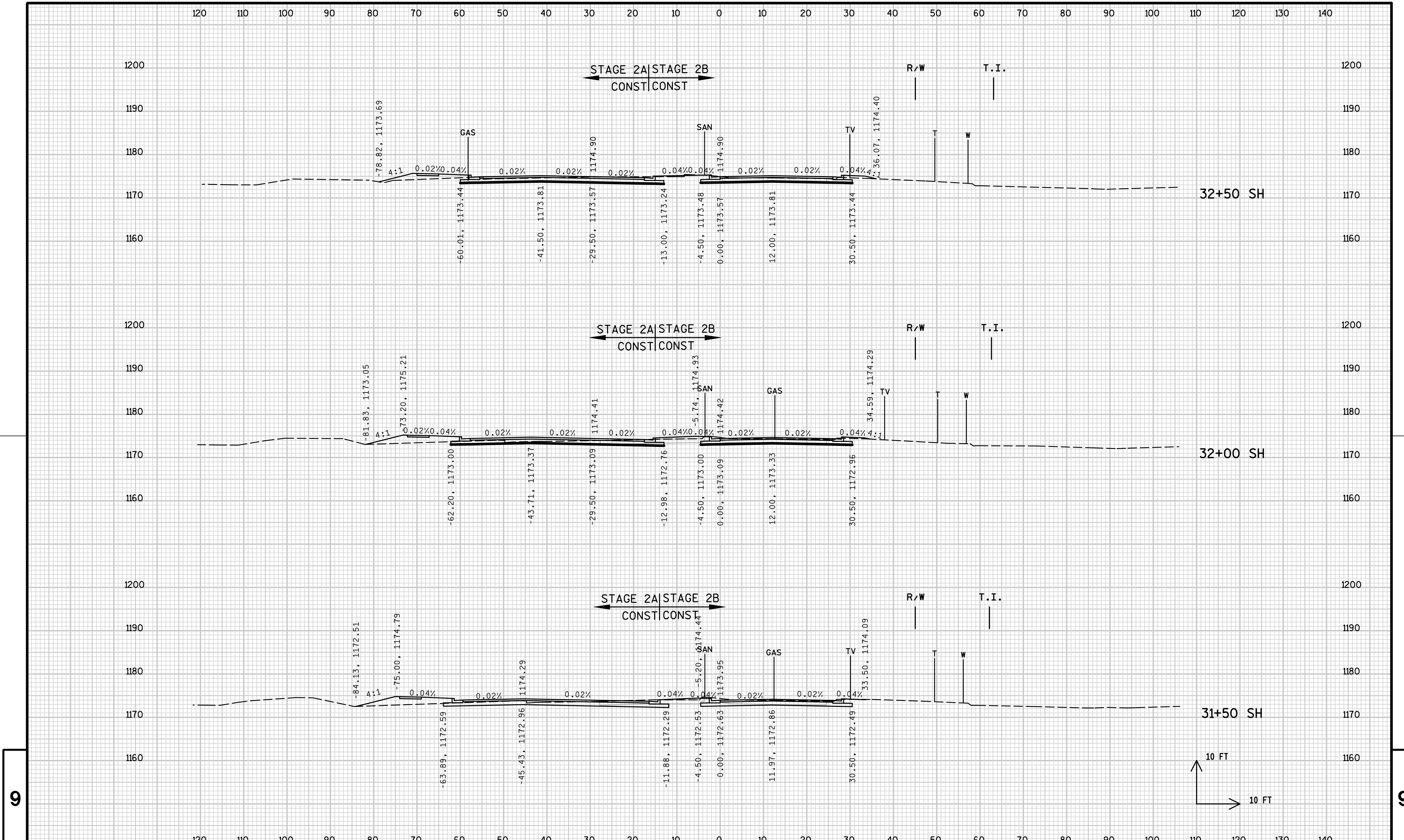
PROJECT NO: 1166-09-79 | HWY: USH 51/STH 29 | COUNTY: MARATHON | CROSS SECTIONS: SHERMAN STREET (SH) | SHEET 387 | E

FILE NAME : s:\osai\051--100\089\100\design_projects\d4_11660900ec\design\0977\sh\crosssection_sh.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



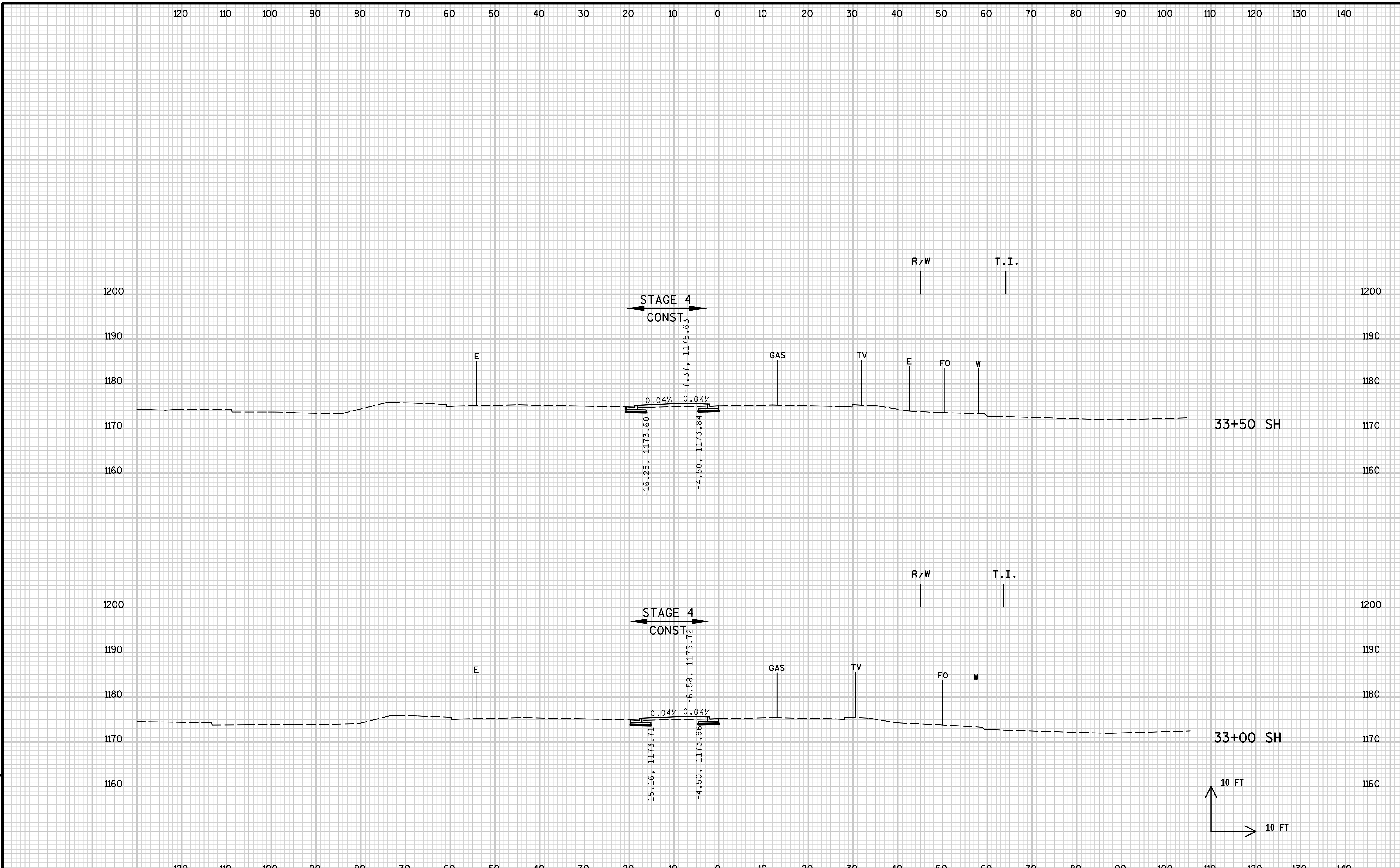
PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: SHERMAN STREET (SH)	SHEET 388	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\sh\crosssection_sh.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: SHERMAN STREET (SH)	SHEET 389	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\sh\crosssection_sh.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: SHERMAN STREET (SH)	SHEET 390	E

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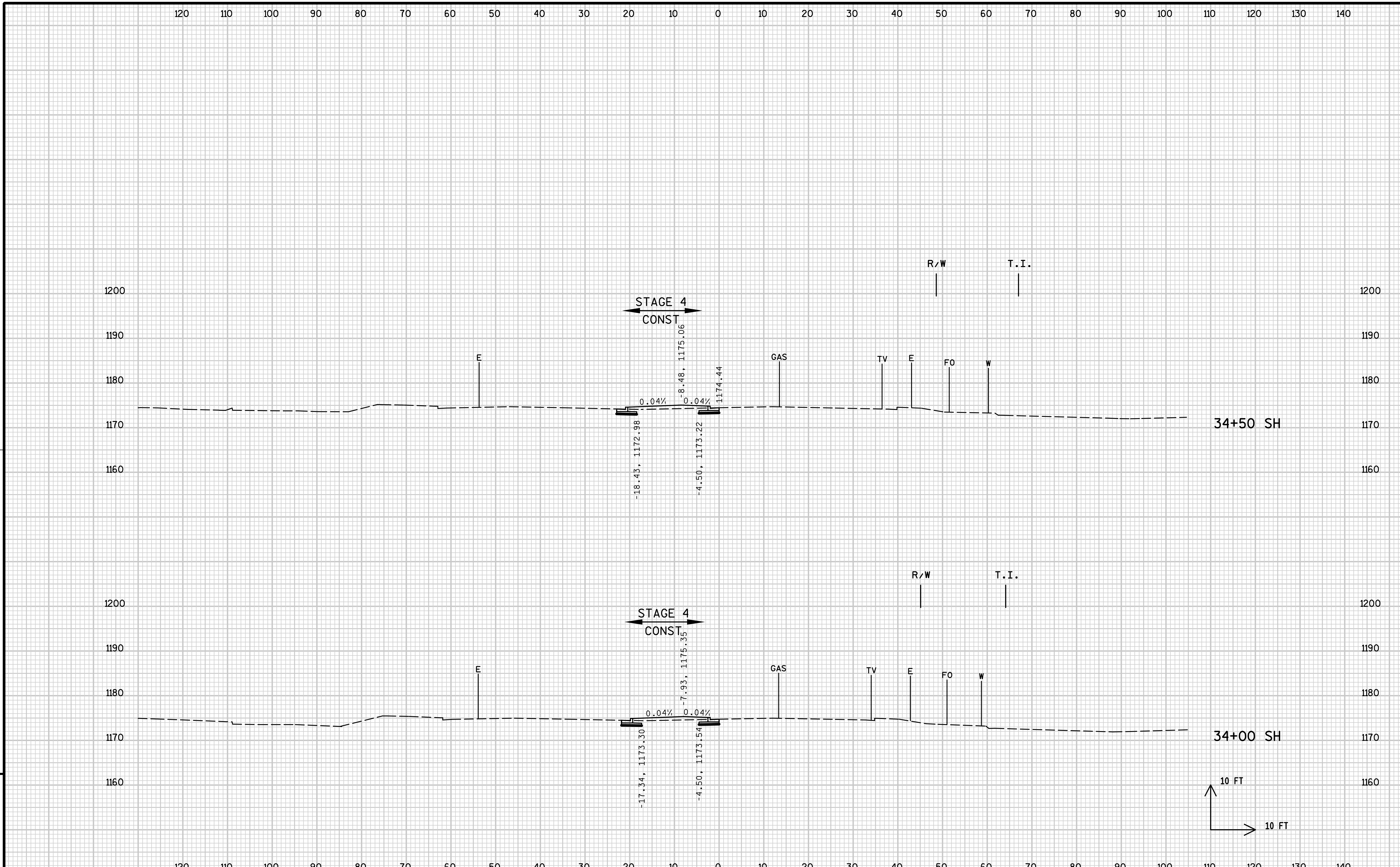

PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: SHERMAN STREET (SH)	SHEET 391	E

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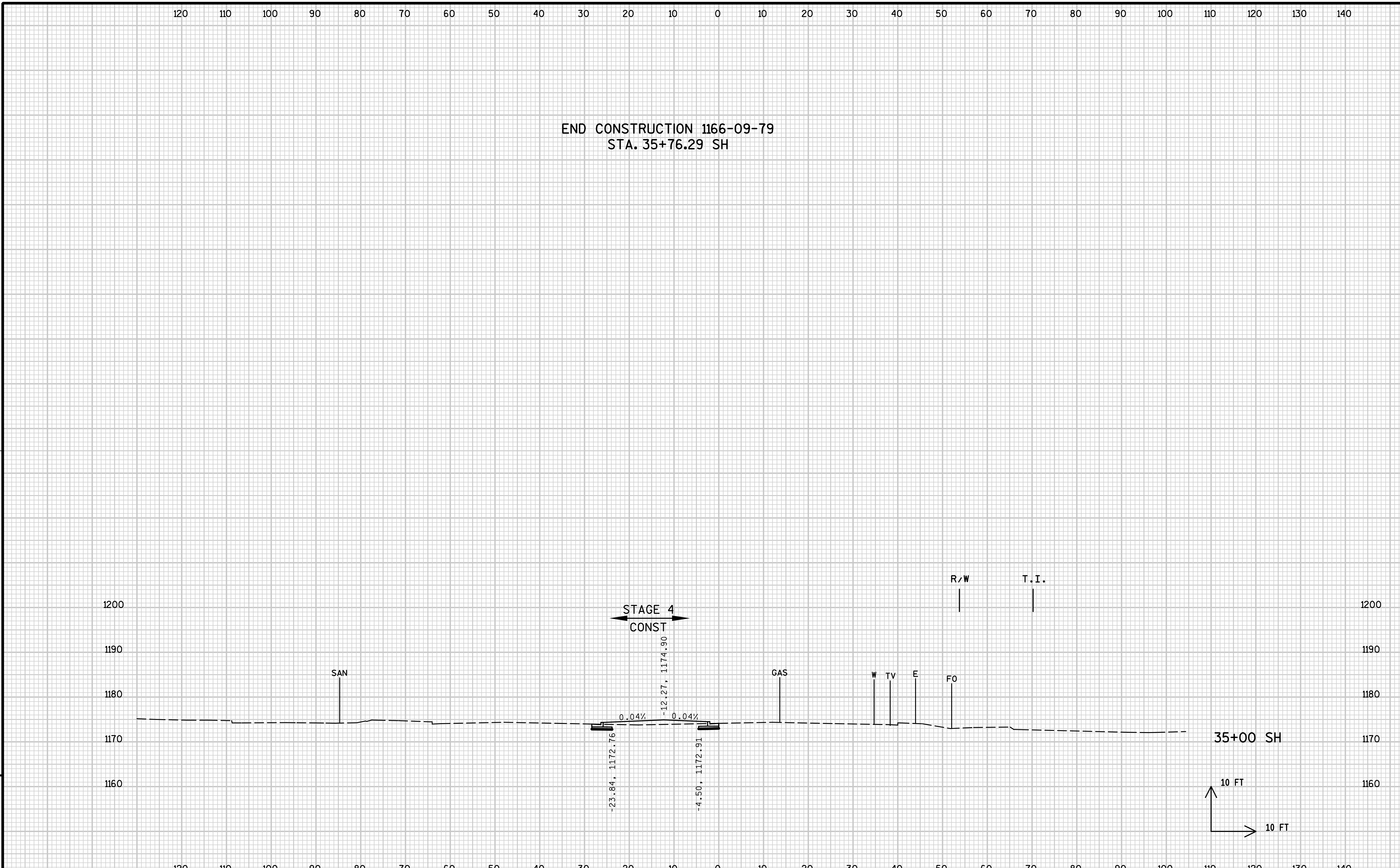
END CONSTRUCTION 1166-09-79
STA. 35+76.29 SH



PROJECT NO: 1166-09-79	HWY: USH 51/STH 29	COUNTY: MARATHON	CROSS SECTIONS: SHERMAN STREET (SH)	SHEET 392	E

FILE NAME : s:\@sai\051--100\089\100\design_projects\d4_11660900ec\design\0977\sh\crosssection_sh.dgn PLOT DATE : 1/29/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

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