WKE MAR 2018

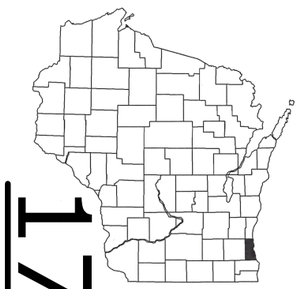
PROJECT ID 2190-00-70 2190-00-71
WITH: N/A

COUNTY MILWAUKEE

ORDER OF SHEETS

SECTION NO.	1	TITLE
SECTION NO.	2	TYPICAL SECTIONS AND DETAILS
SECTION NO.	3	ESTIMATE OF QUANTITIES
SECTION NO.	3	MISCELLANEOUS QUANTITIES
~~SECTION NO.~~	~~4~~	~~RIGHT OF WAY PLAT~~
SECTION NO.	5	PLAN AND PROFILE
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: 524



17

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

W WISCONSIN AVE, CITY OF MILWAUKEE

N 38TH ST TO N 35TH ST

USH 18
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2190-00-71

WEST WISCONSIN AVENUE

N 35TH STREET TO N 20TH STREET

LOCAL STREET
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2190-00-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2190-00-70	WISC 2018146	1
2190-00-71	WISC 2018147	1

Accepted For
City of Milwaukee
10/24/17 Ghassan Khalaf
(Date) Commissioner of Public Works

Original Plans Prepared By
WISCONSIN JEFFREY S. POLENSKE E-36528 MILWAUKEE WIS. PROFESSIONAL ENGINEER
10/24/17 Jeffrey S. Polenske
(Date) City Engineer

TRAFFIC SIGNAL, TRAFFIC CONTROL SIGNING, AND PAVEMENT MARKING PLANS PREPARED BY GRAEF-USA, INC.

WISCONSIN STEVE L. HUBERTY 32396 WAUWATOSA, WI PROFESSIONAL ENGINEER
10/24/17 Steve L. Huberty
(Date) Signature

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor City of Milwaukee
Designer City of Milwaukee
Management Consultant Daar Corp.
C.O. Examiner

APPROVED FOR THE DISTRICT OFFICE
DATE: 10/25/17 Christine Fanna
(Signature)

APPROVED FOR THE DEPARTMENT
DATE: 10/25/17
(Management Consultant Signature)

E

N

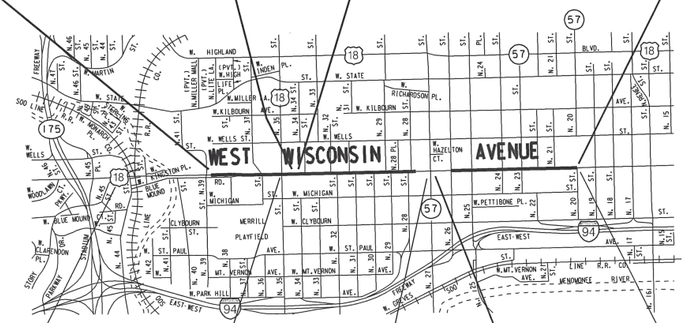
EQUATION
STA. 32+63.50 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 105+63.50 - W. WISCONSIN AVE. (LOCAL STREET) (2190-00-70)

END PROJECT
2190-00-71
STA. 32+63.50, T/L

BEGIN PROJECT
2190-00-70
STA. 105+63.50, T/L
Y. = 385,250.90
X. = 2,546,206.29

END PROJECT
2190-00-70
STA. 156+80.00, T/L

BEGIN PROJECT
2190-00-71
STA. 17+23.30, T/L
Y. = 385,224.46
X. = 2,544,696.09



EXCEPTION TO NET CENTERLINE LENGTH
STA. 127+33.00 TO STA. 133+12.00, T/L

DESIGN DESIGNATION		W. WISCONSIN AVE. 38TH-35TH	W. WISCONSIN AVE. 35TH-20TH
A.D.T. (2018)	=	16,200	16,200
A.D.T. (2038)	=	20,300	20,300
D.H.V.	=	2,400	2,400
D.	=	73%	73%
T.	=	5.0%	5.0%
DESIGN SPEED	=	35 M.P.H.	35 M.P.H.
ESALS	=	1,063,136	1,063,136

CONVENTIONAL SYMBOLS

PLAN

COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
CORPORATE OR CITY LIMITS
PROPERTY LINE (P.L.)
STANDARD BENCH MARK
EXISTING RIGHT OF WAY LINE (R/W)
PROPOSED SEWER LATERAL (SIZE)
REFERENCE LINE
COMBUSTIBLE FLUIDS (CAUTION)
FENCE (TYPE)
CATCH BASIN OR INLET EXISTING PROPOSED

PROFILE

GRADE LINE
ORIGINAL GROUND
GRADE ELEVATION 95.56

UTILITIES

AMERICAN TRANSMISSION CO.	ATC
CITY UNDERGROUND CONDUIT	CUC
COMBINED SEWER	CMB
ELECTRIC	E
GAS	G
MILWAUKEE METRO SEWERAGE DIST	MMSD
SANITARY SEWER	SAN
STORM SEWER	STO
TELEPHONE	T
TRAFFIC & ELECTRICAL SERVICES	TE&ES
WATER	W

FIRE & POLICE CALL BOX
LIGHT POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLE
TRAFFIC SIGNAL
TRAFFIC SIGNAL CONTROL BOX
HYDRANT
GAS OR WATER GATE VALVE
MANHOLES - SEWER UTILITY (TYPE)
TREES - EXISTING TO BE REMOVED

LAYOUT
SCALE 1/2 MI.

(2190-00-71) NET LENGTH OF CENTERLINE = 0.292 MI. (URBAN)
(2190-00-70) NET LENGTH OF CENTERLINE = 0.859 MI. (URBAN)
TOTAL NET LENGTH OF CENTERLINE = 1.151 MI. (URBAN)

THE COORDINATES ON THIS PLAN ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, MILWAUKEE COUNTY, NAD 27 SOUTH ZONE.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MILWAUKEE DATUM.

TO CONVERT ELEVATIONS SHOWN ON THIS PLAN TO NATIONAL GEODETIC VERTICAL DATUM OF 1929, ADD 580.603 TO ELEVATIONS SHOWN ON THIS PLAN.

FILE NAME: W:\SPR\WISC_38-20COMBINED\TITLE.DGN

PLOT DATE:

REVISED DATE: 10-23-2017 BY PRM

GENERAL NOTES

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

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

3. THE CONTRACTOR SHALL GIVE THE PROJECT ENGINEER AT LEAST TWO WEEKS NOTICE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY DISTURB ANY PUBLIC SURVEY MONUMENTS.

4. IMMEDIATELY AFTER CONSTRUCTION OF ANY INLET, CONTRACTOR SHALL INSTALL THE INLET PROTECTION TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.

5. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

6. EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

7. TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

8. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

9. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER.

10. ANY MESH OR REINFORCEMENT FOUND DURING REMOVAL OF THE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING PAVEMENT"

11. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

12. REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THE RESPECTIVE BID ITEMS.

13. ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED, UNLESS NOTED IN THE PLANS.

14. SAWCUT ASPHALTIC AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS AT THE MATCHLINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER.

15. CONSTRUCTION PERMITS FOR DRIVEWAY CONSTRUCTION HAVE BEEN OBTAINED AND SUCH RIGHTS WILL BE EXTENDED TO THE CONTRACTOR.

16. THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2012. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

16. CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF THE CURB.

STANDARD ABBREVIATIONS

ASPH.	- ASPHALT
B.M.	- BENCH MARK
CTR.	- CENTER
C/L	- CENTER LINE
COMB.	- COMBINED
CONC.	- CONCRETE
C.W.	- CONCRETE WALK
COR.	- CORNER
C	- CURB
ELEV.	- ELEVATION
ENT.	- ENTRANCE
EXIST.	- EXISTING
F	- FLANGE
G	- GUTTER, OR GAS
HYD.	- HYDRANT
LT	- LEFT
MMSD	- MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
P/L	- PROPERTY LINE
R OR RAD.	- RADIUS
RET.	- RETAINING
RT	- RIGHT
R/W	- RIGHT OF WAY
TEL	- AMERITECH
TES	- TRAFFIC ENGINEERING, AND ELECTRICAL SERVICES
T/L	- TRANSIT LINE
V.T. OR VT	- VARIABLE THICKNESS
WEP	- WISCONSIN ELECTRIC POWER
EB	- EASTBOUND
WB	- WESTBOUND
PGL	- PROFILE GRADE LINE

3" ASPHALTIC SURFACE ON VARIABLE THICKNESS CONCRETE BASE
UPPER LAYER: 1-1/2 INCH
LOWER LAYER: 1-1/2 INCH

2" ASPHALTIC SURFACE ON VARIABLE THICKNESS CONCRETE BASE
UPPER LAYER: 2 INCH

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
UTILITY CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
PLAN DETAILS
EROSION CONTROL
UTILITIES AND DRAINAGE
PLANTING
SIGNING
LIGHTING
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL & CONSTRUCTION STAGING
ALIGNMENT

UTILITY CONTACTS

AT&T WISCONSIN
STEVEN HENSEL
435 S. 95TH ST.
MILWAUKEE WI 53214
PHONE: 414-678-3908
CELL: 454-534-7720

CHARTER COMMUNICATIONS
STEVE CRAMER
1320 N. DR. MLK. DR.
MILWAUKEE, WI 53212
OFFICE: 414-277-4045
CELL: 414-688-2385

CITY OF MILWAUKEE, UTILITY COORDINATOR
MOHAMMAD ABULUGHOD
841 N. BROADWAY
MILWAUKEE, WI 53202
PHONE: 414-286-2767
mabulu@milwaukee.gov

CITY OF MILWAUKEE, COMMUNICATIONS
COMMUNICATIONS DISPATCH
1440 WEST CANAL STREET
MILWAUKEE, WI 53233
PHONE: 414-286-3686

CITY OF MILWAUKEE, CUC
KAREN ROGNEY
841 N. BROADWAY
MILWAUKEE, WI 53202
PHONE: 414-286-3243

CITY OF MILWAUKEE, FORESTRY
JAMES KRINGER
841 N. BROADWAY
MILWAUKEE WI 53202
CELL: 414-708-2428

CITY OF MILWAUKEE, SEWERS
ZAFAR YOUSUF
841 N. BROADWAY
MILWAUKEE, WI 53202
PHONE: 414-286-2467

CITY OF MILWAUKEE, STREET LIGHTING
MARK MARCRAE
1540 W. CANAL ST.
MILWAUKEE, WI 53233
PHONE: 414-286-5942
CELL: 414-708-4251

CITY OF MILWAUKEE, TRAFFIC SIGNALS
AL NICHOLS
1540 W. CANAL ST.
MILWAUKEE, WI 53233
PHONE: 414-286-5941
CELL: 414-708-5148

CITY OF MILWAUKEE, WATER WORKS
DAVE GOLDAPP
841 N. BROADWAY, ROOM 409
MILWAUKEE, WI 53202
PHONE: 414-286-6301
CELL: 414-708-2695

LEVEL 3 COMMUNICATIONS
SASHA DEMIAN
3235 INTERTECH DR.
SUITE 600
BROOKFIELD, WI 53045
PHONE: 414-908-1042
CELL: 414-319-9718

MIDWEST FIBER NETWORKS
CHERI GRAINGER
6070 N. FLINT RD.
GLENDALE, WI 53209
PHONE: 414-459-3550

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
LARRY ANDERSON
260 W. SEEBOTH AVE.
MILWAUKEE, WI 53204-1446
PHONE: 414-225-2241
CELL: 414-617-1429

TDS METROCOM
MATTHEW SCHULTE
16924 W. VICTOR RD.
NEW BERLIN, WI 53151
PHONE: 262-754-3063
matt.schulte@tdstelecom.com

WE ENERGIES - ELECTRIC
KENNETH FRANECKI
500 S. 116TH ST.
WEST ALLIS, WI 53214
PHONE: 414-944-5531
kenneth.franecki@we-energies.com

WE ENERGIES - GAS
ALEX DANTINNE
500 S. 116TH ST.
WEST ALLIS WI 53214
PHONE: 414-218-2053
alex.dantinne@we-energies.com

WINDSTREAM / PAETEC
MARY BETH FISHER
13935 BISHOPS DR.
BROOKFIELD, WI 53151
PHONE: 262-792-7938

OTHER CONTACTS

WISCONSIN DEPT. OF NATURAL RESOURCES
KRISTINA BETZOLD
2300 N. DR. MARTIN LUTHER KING, JR. DR.
MILWAUKEE, WI 53212
PHONE: 414-263-8517
kristina.betzold@wisconsin.gov

MILWAUKEE COUNTY TRANSIT SYSTEM
MELANIE FLYNN
1942 N. 17TH ST.
MILWAUKEE, WI 53205
PHONE: 414-343-1764
mflynn@mcts.org

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

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	UTILITY CONTACTS	SCALE FEET	SHEET NO: 3	E

FILENAME: W:\SPR\WISC_38-20COMBINED\GENNOTES.DGN

REVISED DATE: 09-20-2017 BY JH

UTILITY CONTACTS

AT&T CORP.
WILLIAM KOENIG (JMC ENGINEERS)
128 SUNSET AVE
APPLETON WI 54911
PHONE: 608-628-0575
WEKOENIG@ATT.NET

AT&T WISCONSIN
STEVEN HENSEL
435 S. 95TH ST.
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2300 N. DR. MARTIN LUTHER KING, JR. DR.
MILWAUKEE, WI 53212
PHONE: 414-263-8517
kristina.betzold@wisconsin.gov

MILWAUKEE COUNTY TRANSIT SYSTEM
MELANIE FLYNN
1942 N. 17TH ST.
MILWAUKEE, WI 53205
PHONE: 414-343-1764
mflynn@mcts.org

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

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	UTILITY CONTACTS	SCALE FEET	SHEET NO: 4	E

FILENAME: W:\SPR\WISC_38-20COMBINED\GENNOTES.DGN

REVISED DATE: 09-20-2017 BY JH

2

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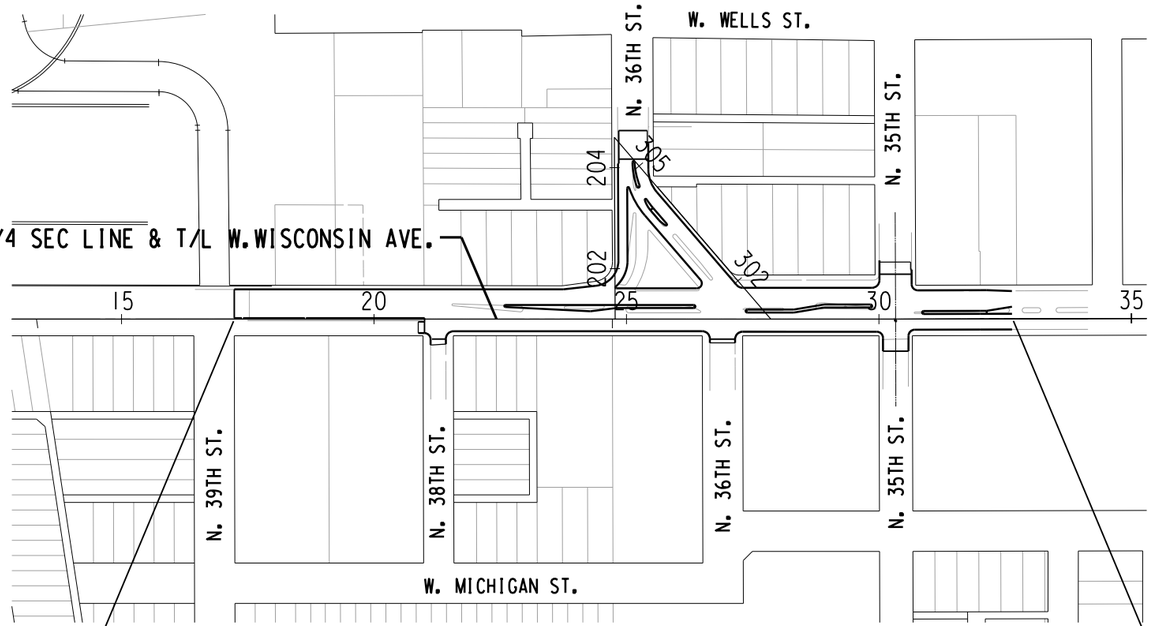


BEGIN PROJECT 2190-00-71

STA. 17+23.3
Y= 385,224.46
X= 2,544,696.09

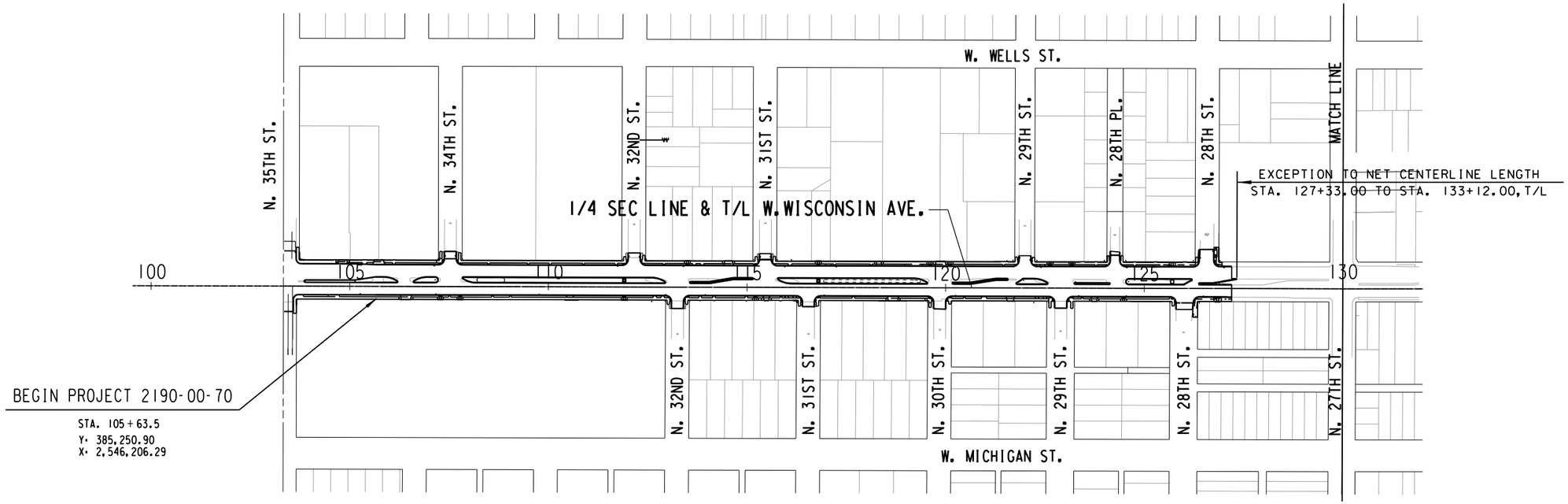
END PROJECT 2190-00-71

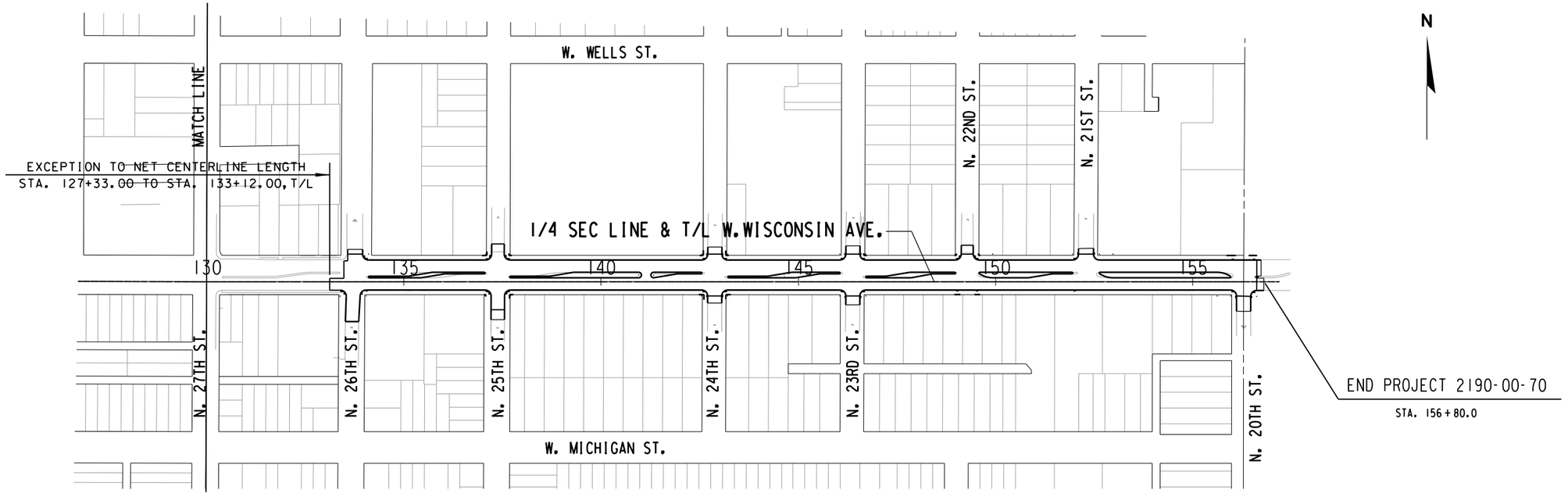
STA. 32+63.5

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SCALE FEET 0' 40'	SHEET NO: 5	E

FILENAME: W:\SPR\WISC_38-20COMBINED\OVERVIEW.DGN

REVISED DATE: 09-13-2017 BB





STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SCALE FEET 0' 300'	SHEET NO: 6	E

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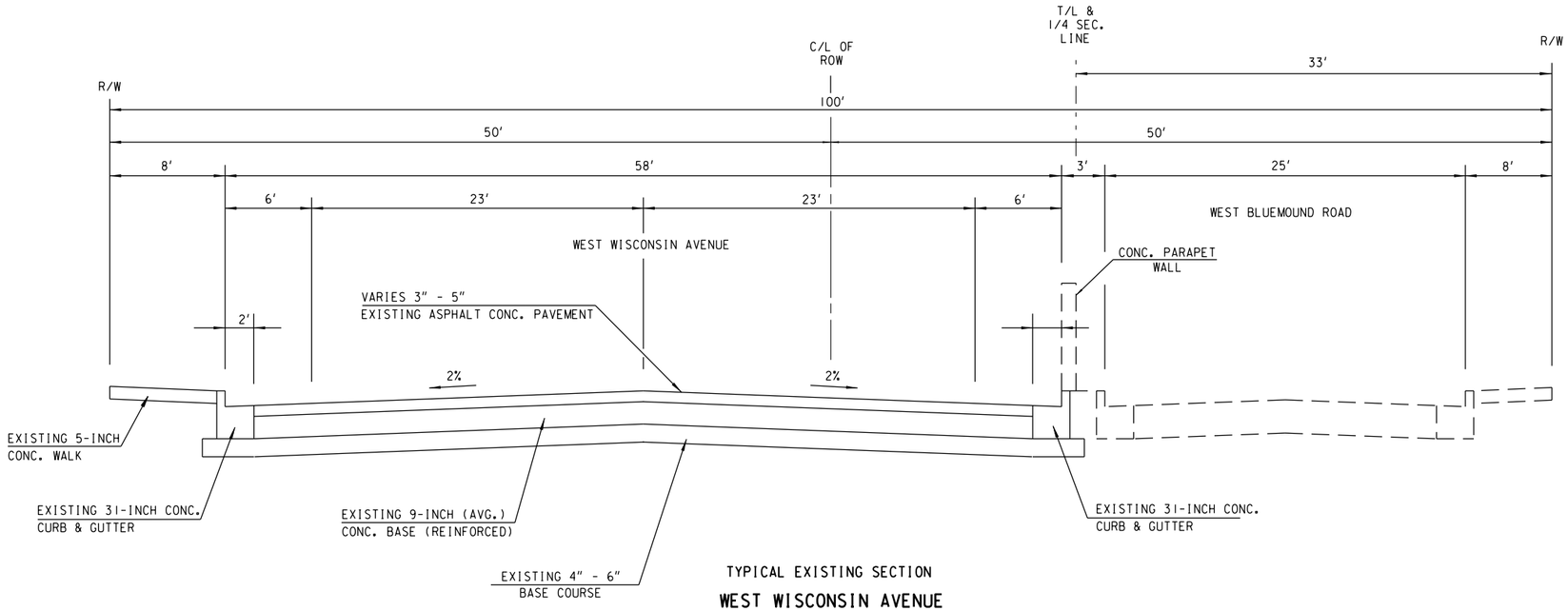
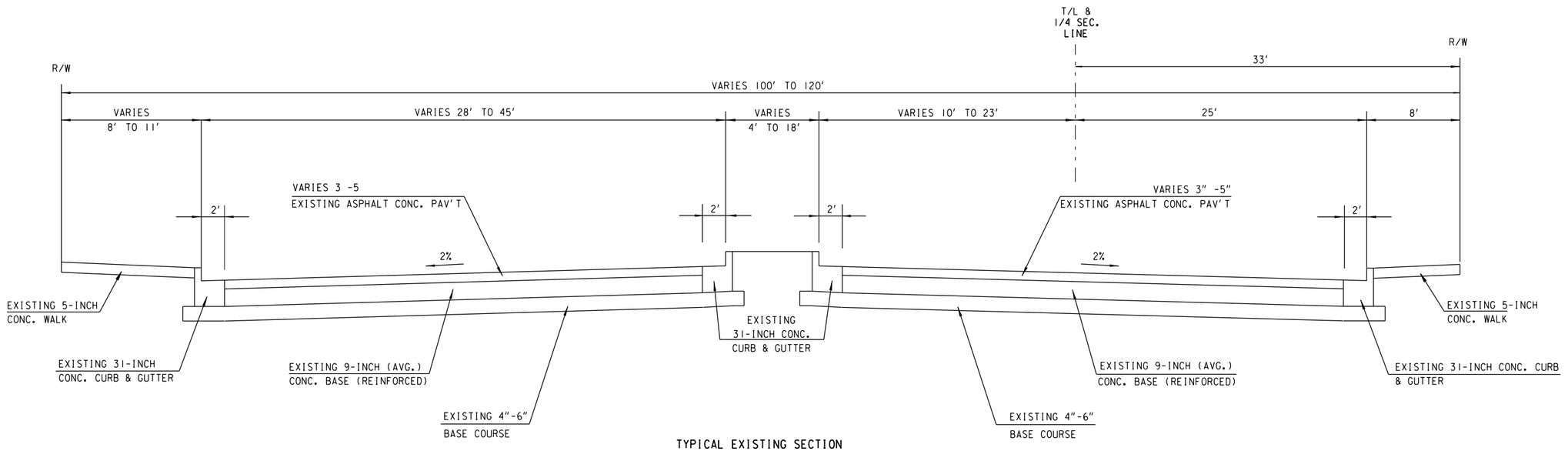
REVISED DATE: 09-13-2017 BB



TYPICAL EXISTING SECTION

WEST WISCONSIN AVENUE

STA. 17 + 23.3 TO STA. 21 + 00.0



TYPICAL EXISTING SECTION

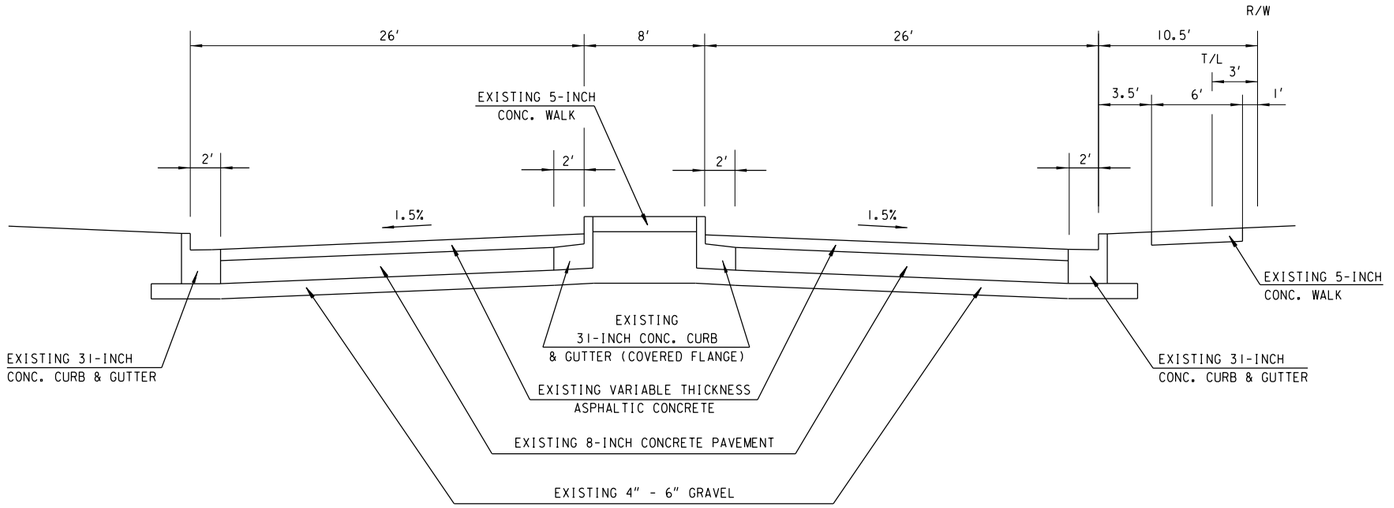
WEST WISCONSIN AVENUE

STA. 21 + 00.0 TO STA. 32 + 63.5

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 7	E

FILENAME: W:\SPR\WISC_38-35\TYPSEC.DGN

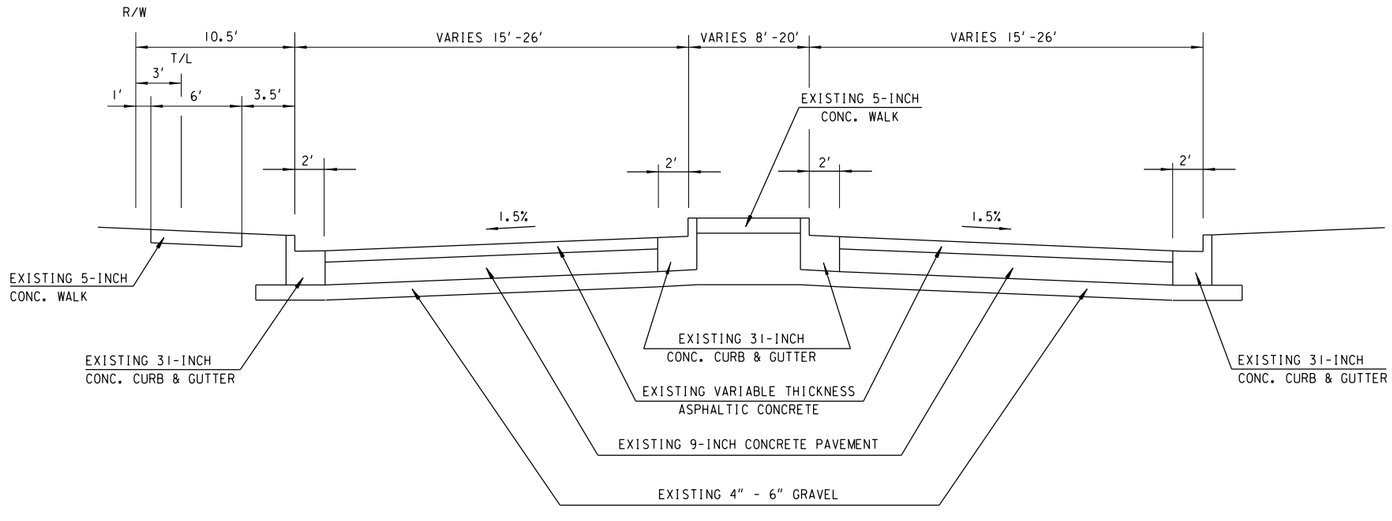
REVISED DATE: 09-19-2017 BY JH



TYPICAL EXISTING SECTION

NORTH 36TH STREET

STA. 302 + 39 - STA. 305 + 18



TYPICAL EXISTING SECTION

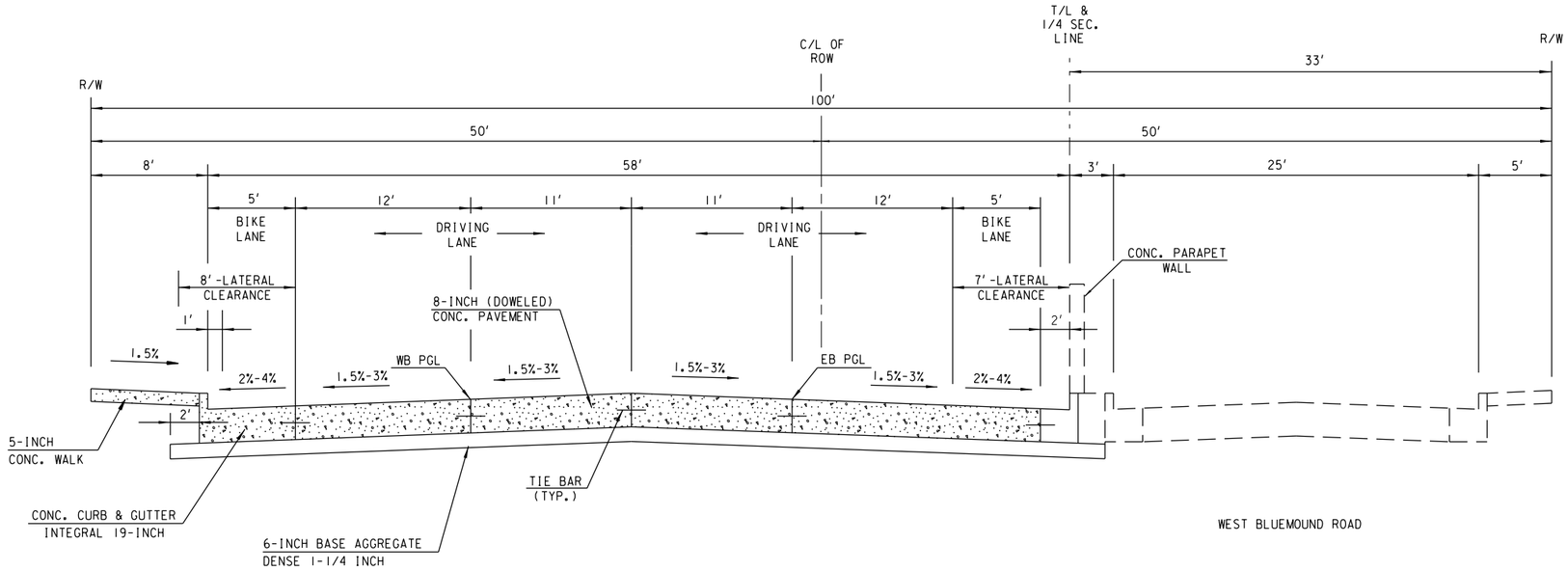
NORTH 37TH STREET

STA. 201 + 68 - STA. 203 + 73.37

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 8	E

FILENAME: W:\SPR\WISC_38-35\TYPSEC.DGN

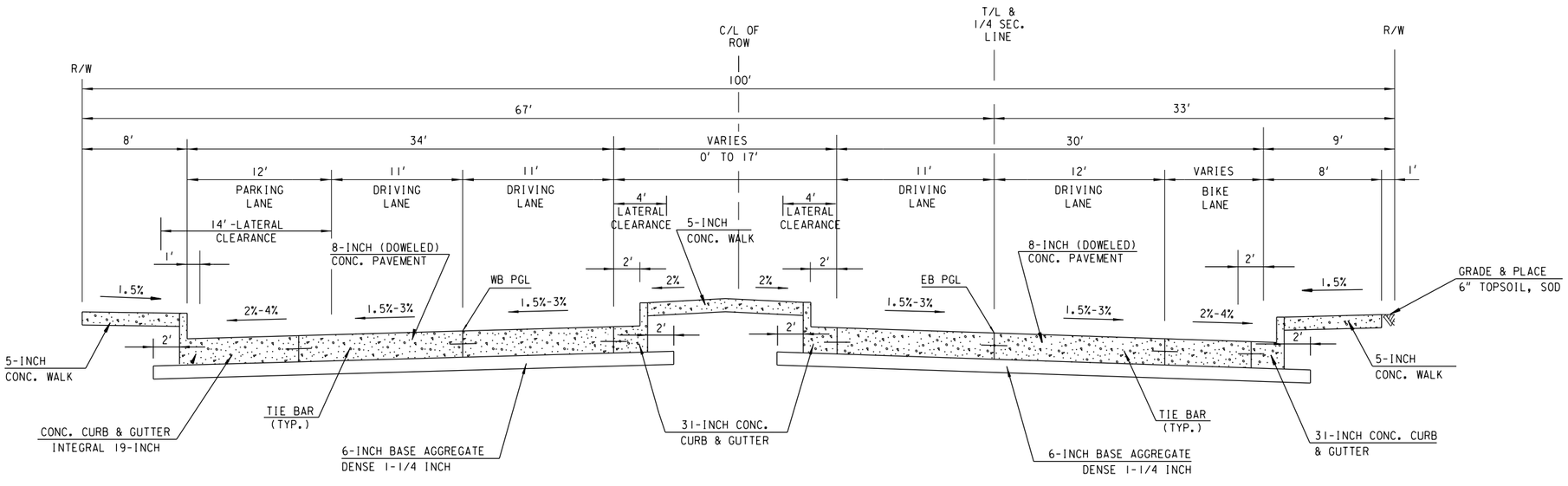
REVISED DATE: 09-19-2017 BY JH



TYPICAL FINISHED SECTION

WEST WISCONSIN AVENUE

STA. 17 + 23.3 TO STA. 21 + 00.0



TYPICAL FINISHED SECTION

WEST WISCONSIN AVENUE

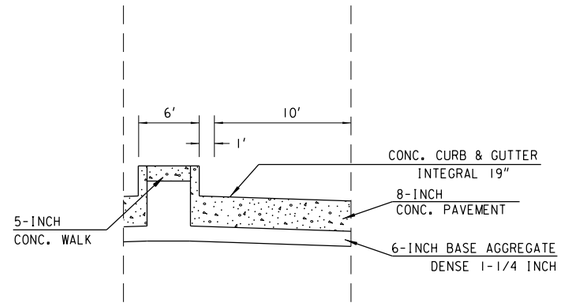
STA. 21 + 00.0 TO STA. 24 + 50.0

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 9	E

FILENAME: W:\SPR\WISC_38-35\TYPSEC.DGN

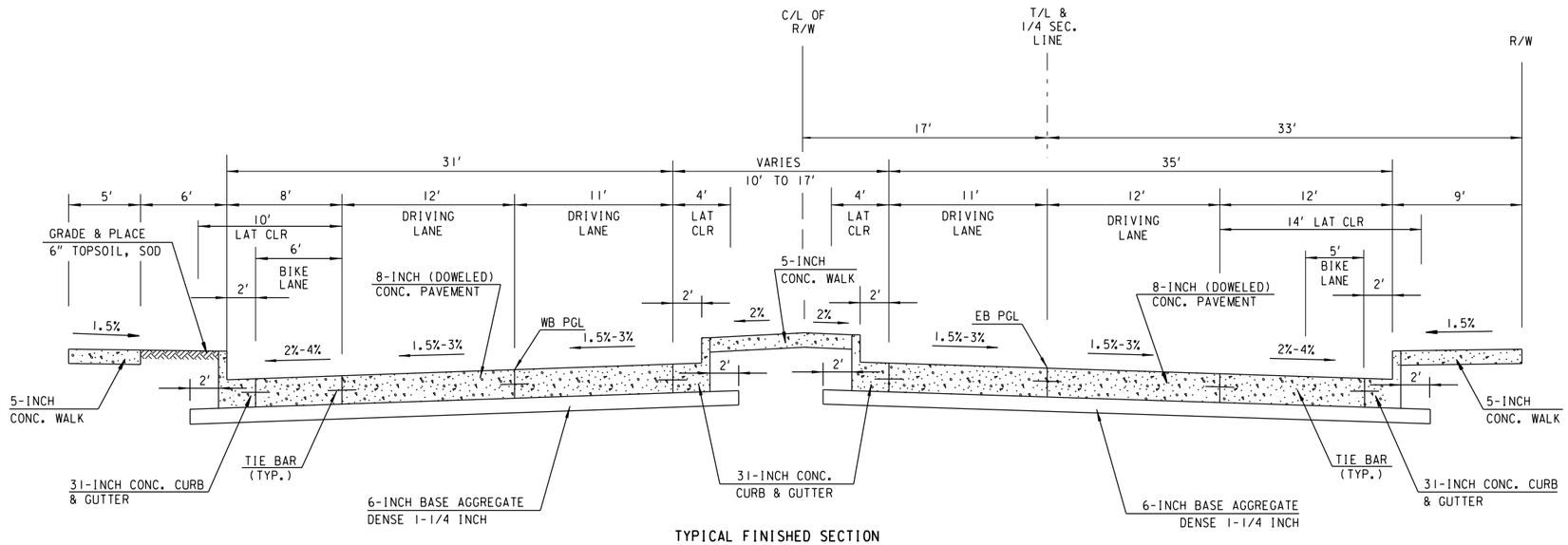
REVISED DATE: 09-08-2017 BY BB

2



EASTBOUND LEFT TURN LANE

STA. 25+12 TO STA. 26+28.7



TYPICAL FINISHED SECTION

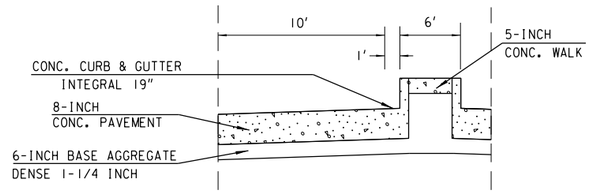
WEST WISCONSIN AVENUE

STA. 24 + 50.0 TO STA. 27 + 00.0

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 10	E

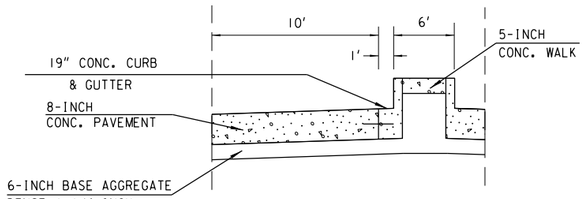
FILENAME: W:\SPR\WISC_38-35\TYPSEC.DGN

REVISED DATE: 01-02-2017 BY SB



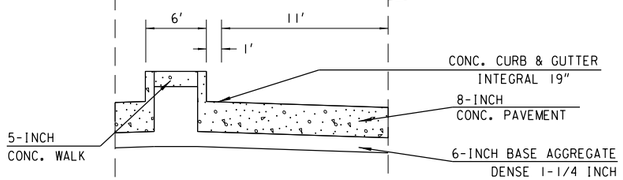
WESTBOUND LEFT TURN LANE

STA. 27+39 TO STA. 28+31.5



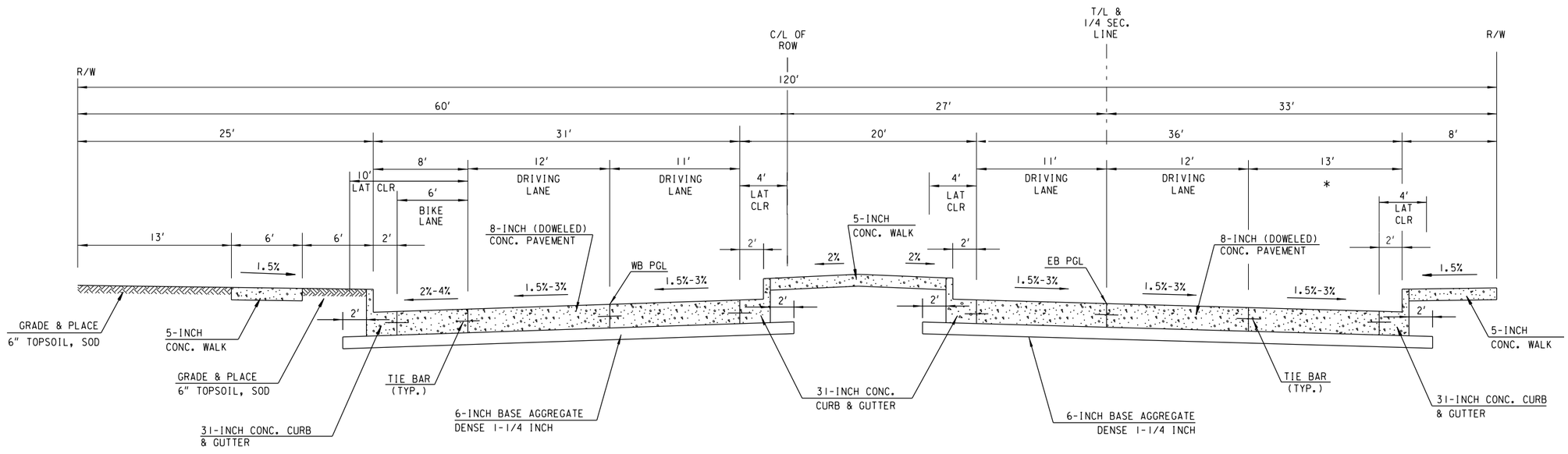
WESTBOUND LEFT TURN LANE

STA. 30+88.4 TO STA. 32+13.5



EASTBOUND LEFT TURN LANE

STA. 28+91.5 TO STA. 29+83.5



TYPICAL FINISHED SECTION

WEST WISCONSIN AVENUE

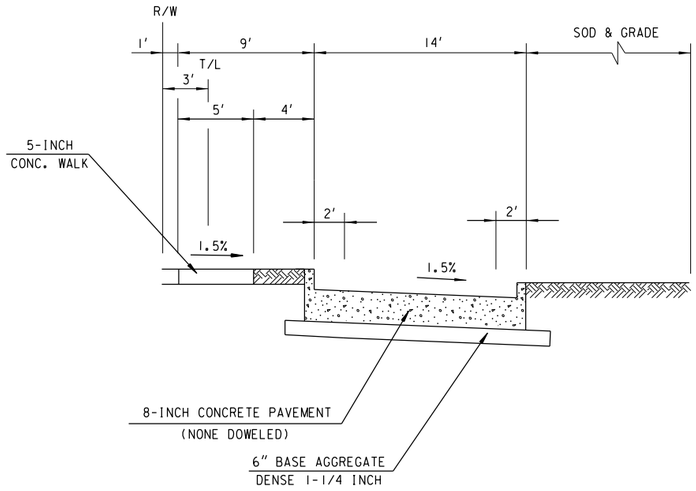
STA. 27 + 00.0 TO STA. 32 + 63.5

* PARKING 27+50-28+75
* RIGHT TURN 28+75-30+00

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 11	E

FILENAME: W:\SPR\WISC_38-35\TYPSEC.DGN

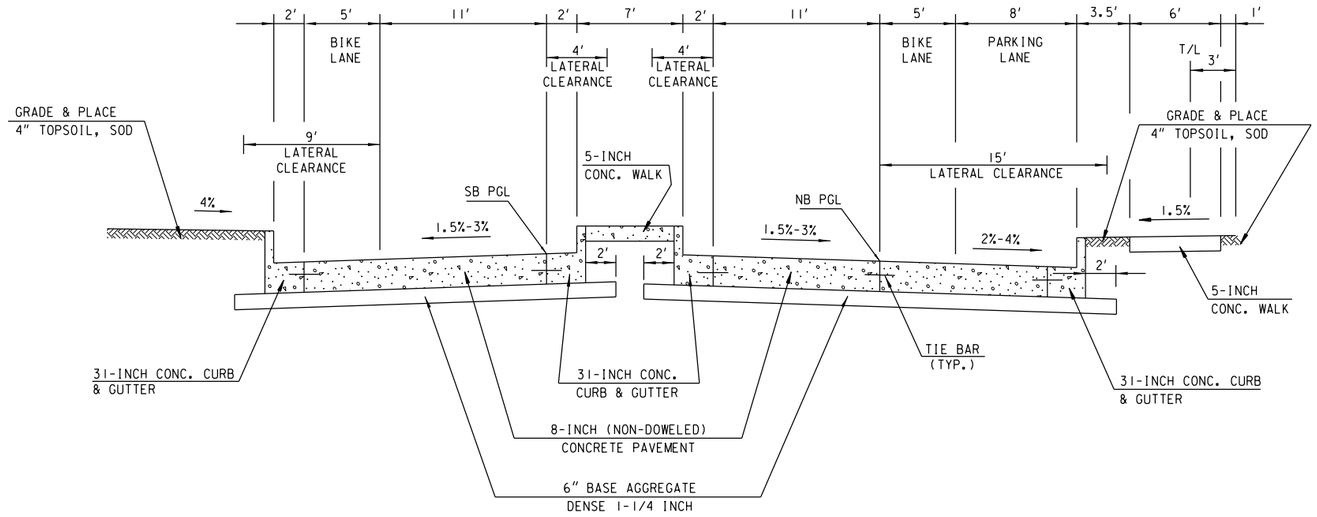
REVISED DATE: 01-02-2018 BY SB



TYPICAL FINISHED SECTION

NORTH 37TH STREET

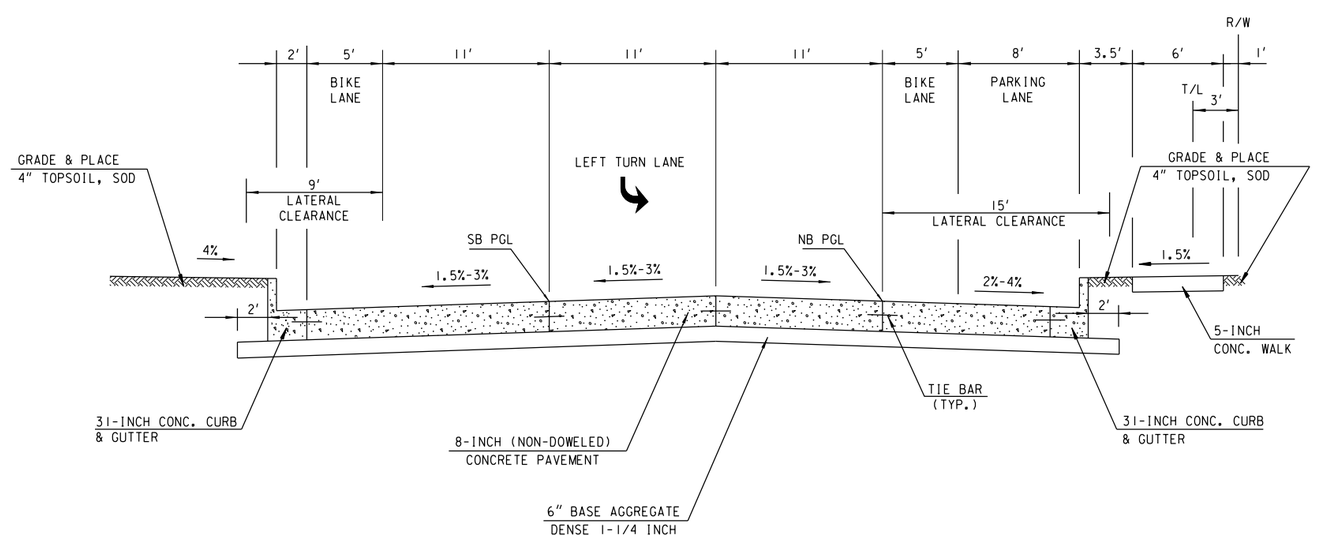
STA. 201 + 68 - STA. 203 + 73.4



TYPICAL FINISHED SECTION

NORTH 36TH STREET

STA. 303 + 77 - STA. 305 + 18



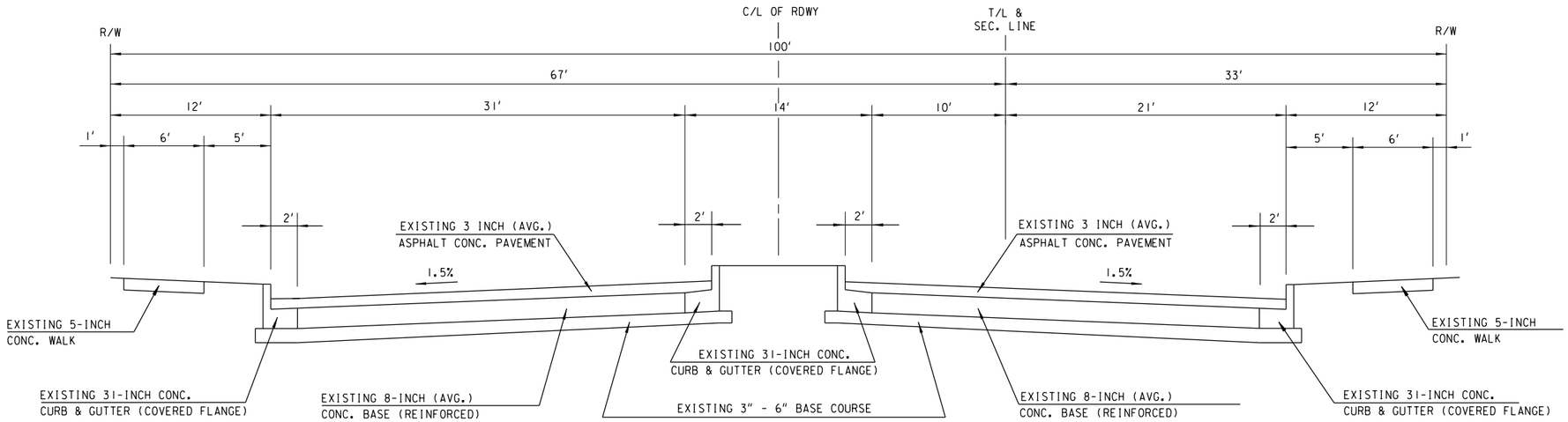
TYPICAL FINISHED SECTION

NORTH 36TH STREET

STA. 302 + 39 - STA. 303 + 77

2

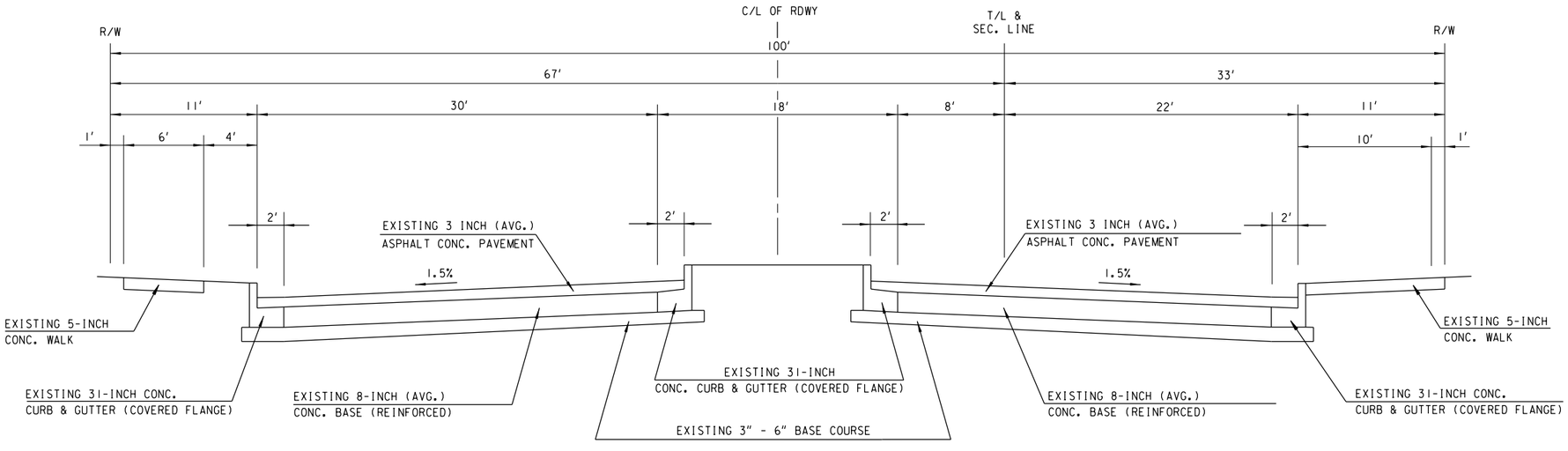
STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 12	E



TYPICAL EXISTING SECTION

WEST WISCONSIN AVENUE

STA. 105 + 63.5 TO STA. 127 + 33.0



TYPICAL EXISTING SECTION

WEST WISCONSIN AVENUE

STA. 133 + 12.0 TO STA. 156 + 80.0

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 13	E

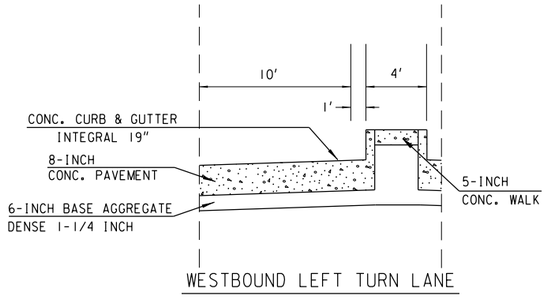
FILENAME: W:\SPR\WISC_20-35\TYPSEC.DGN

REVISED DATE: 07-11-2017 BY DLF

2

WESTBOUND LEFT TURN LANE LOCATIONS

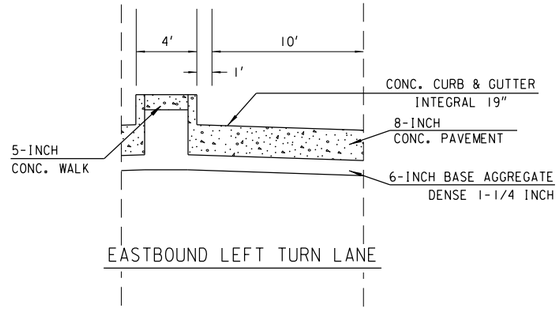
STA. 113+58.0 TO STA. 114+05.5
STA. 120+19.0 TO STA. 120+62.2
STA. 126+39.5 TO STA. 126+73.0
STA. 134+12.5 TO STA. 135+12.5
STA. 137+70.4 TO STA. 138+70.4
STA. 143+23.6 TO STA. 144+23.0
STA. 146+72.8 TO STA. 147+22.8



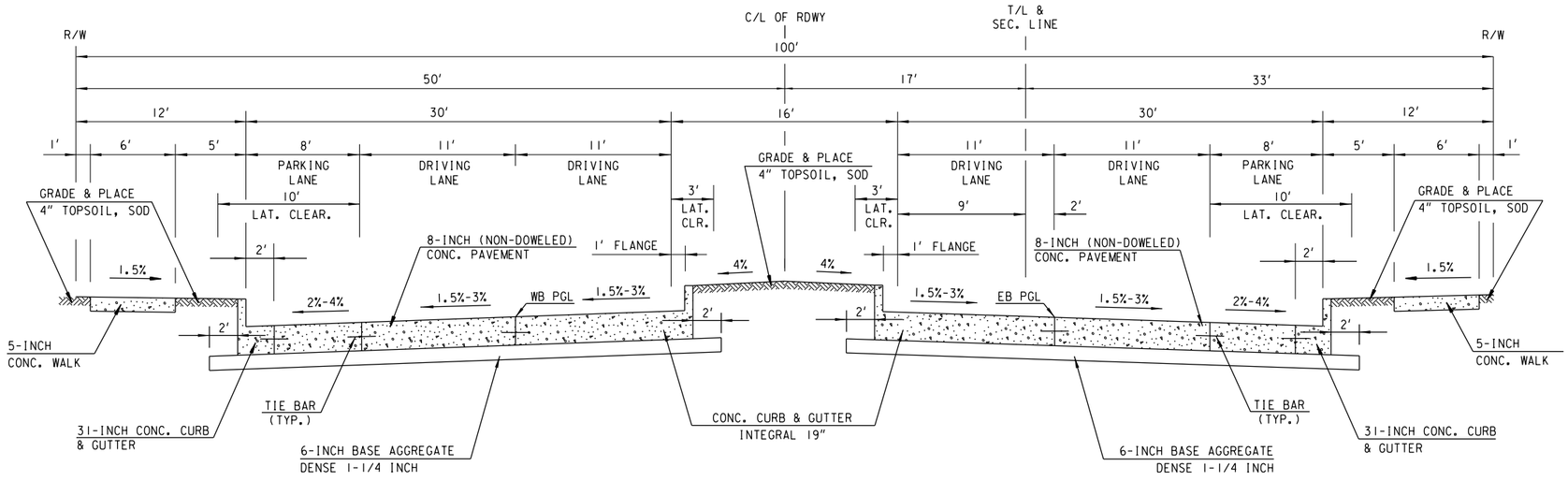
WESTBOUND LEFT TURN LANE

EASTBOUND LEFT TURN LANE LOCATIONS

STA. 114+65.5 TO STA. 115+13.5
STA. 121+26.2 TO STA. 121+54.5
STA. 136+03.8 TO STA. 137+03.8
STA. 141+93.4 TO STA. 142+53.4
STA. 145+53.7 TO STA. 146+03.7
STA. 148+40.3 TO STA. 148+96.2
STA. 151+43.5 TO STA. 151+93.5



EASTBOUND LEFT TURN LANE

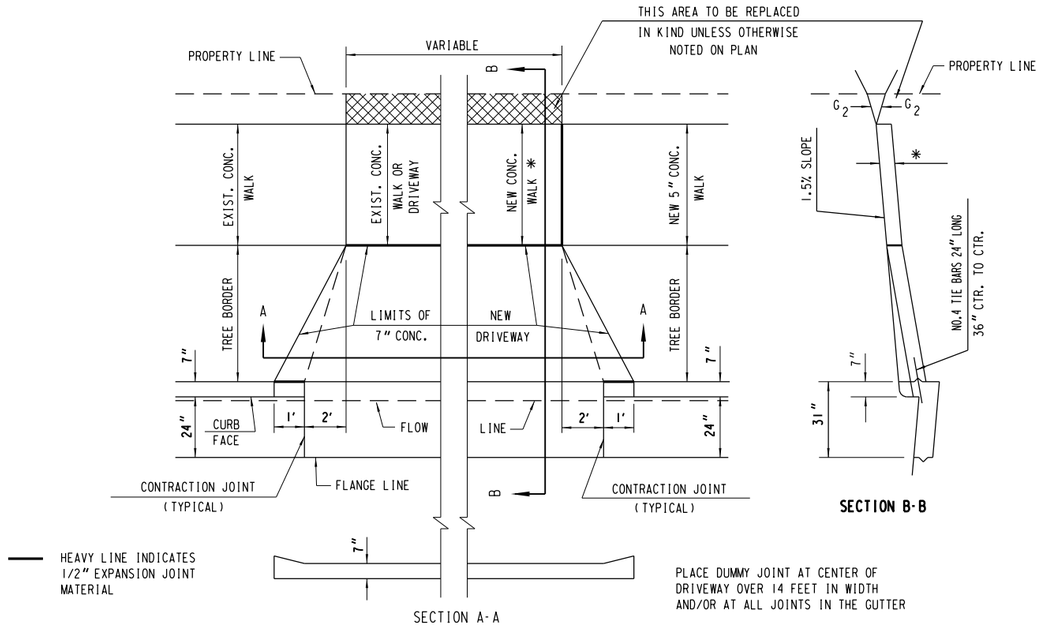


TYPICAL FINISHED SECTION

WEST WISCONSIN AVENUE

STA. 105 + 63.5 TO STA. 127 + 33.0
STA. 133 + 12.0 TO STA. 156 + 80.0

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TYPICAL SECTION	SCALE FEET	SHEET NO: 14	E



HEAVY LINE INDICATES 1/2" EXPANSION JOINT MATERIAL

PLACE DUMMY JOINTS AT CENTER OF DRIVEWAY AND/OR AT ALL JOINTS IN THE GUTTER

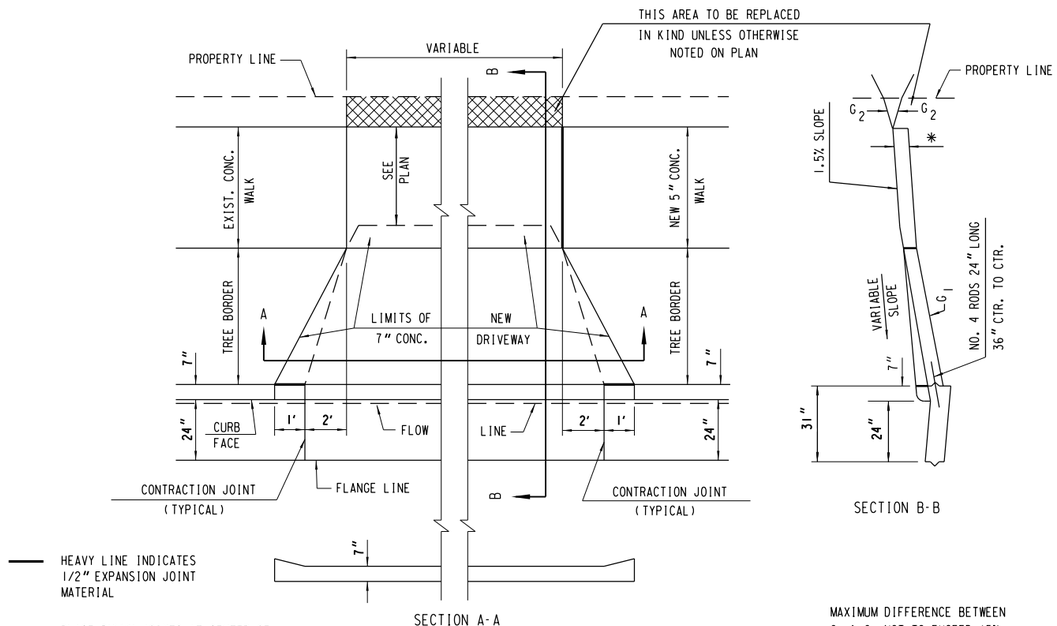
FLARED CONCRETE DRIVEWAY

PLACE DUMMY JOINT AT CENTER OF DRIVEWAY OVER 14 FEET IN WIDTH AND/OR AT ALL JOINTS IN THE GUTTER

MAXIMUM DIFFERENCE BETWEEN G_1 & G_2 NOT TO EXCEED 15%
DESIRABLE MAXIMUM = 10%

MAXIMUM DIFFERENCE BETWEEN G_1 & G_2 IN FILL = 14%

* LOCATIONS PER PLAN: USE 7" CONC. FOR BUSINESS PROPERTY AND 5" CONC. FOR RESIDENTIAL PROPERTY.



HEAVY LINE INDICATES 1/2" EXPANSION JOINT MATERIAL

PLACE DUMMY JOINTS AT CENTER OF DRIVEWAY AND/OR AT ALL JOINTS IN THE GUTTER

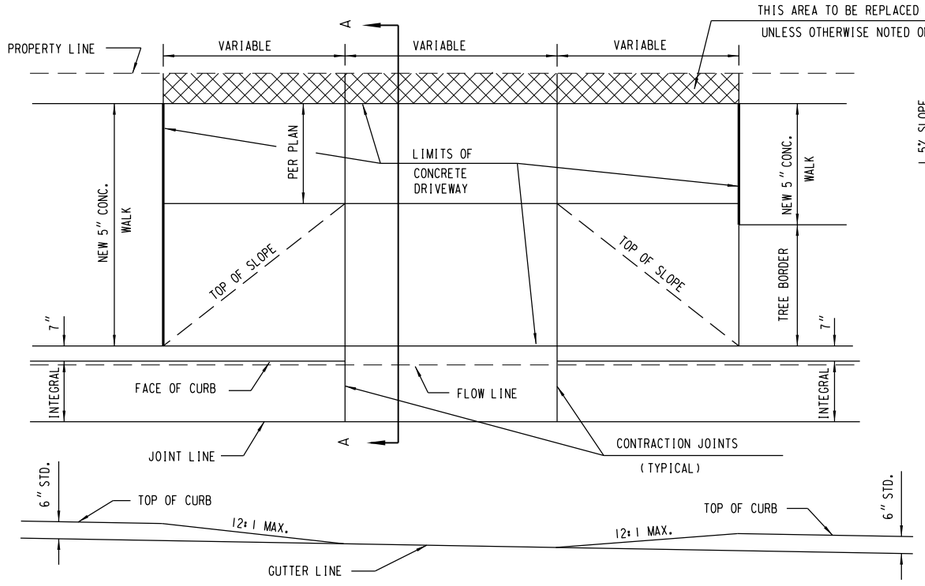
FLARED CONCRETE DRIVEWAY (MODIFIED)

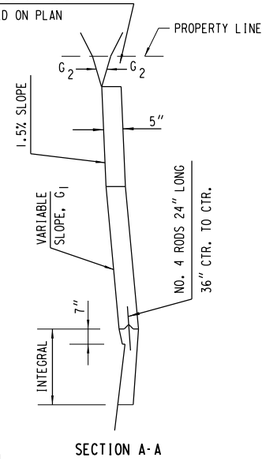
MAXIMUM DIFFERENCE BETWEEN G_1 & G_2 NOT TO EXCEED 15%
DESIRABLE MAXIMUM = 10%

MAXIMUM DIFFERENCE BETWEEN G_1 & G_2 IN FILL = 14%

* LOCATIONS PER PLAN: USE 7" CONC. FOR BUSINESS PROPERTY AND 5" CONC. FOR RESIDENTIAL PROPERTY.

2





SECTION A-A

MAXIMUM DIFFERENCE BETWEEN G_1 & G_2 NOT TO EXCEED 15%
DESIRABLE MAXIMUM = 10%

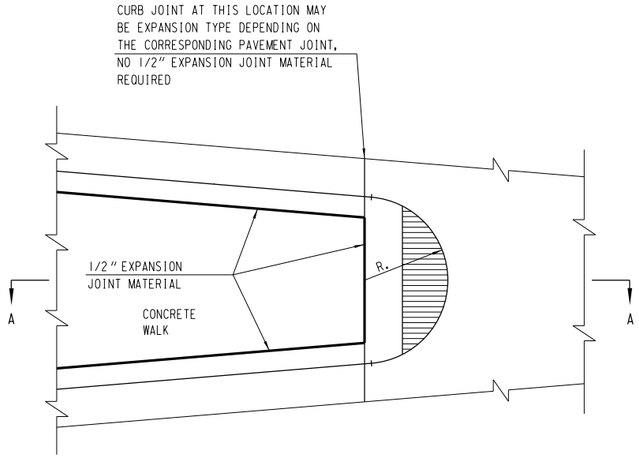
MAXIMUM DIFFERENCE BETWEEN G_1 & G_2 IN FILL = 14%

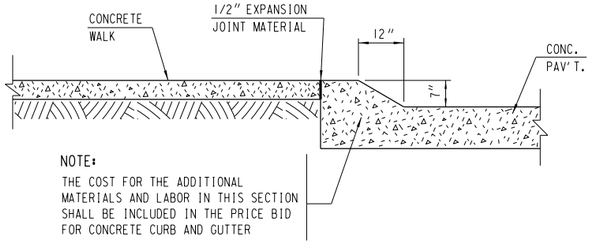
HEAVY LINE INDICATES 1/2" EXPANSION JOINT MATERIAL

DRIVEWAY CONSTRUCTION NOTES

CONSTRUCT DRIVEWAY TO PROPERTY LINE ONLY WHEN MATCHING EXISTING DRIVEWAY AND INSTALL 1/2" EXPANSION JOINT MATERIAL BETWEEN NEW AND OLD DRIVEWAY. PLACE DUMMY JOINT AT CENTER OF DRIVEWAY AND AT ALL JOINTS IN THE GUTTER

DEPRESSED CONCRETE DRIVEWAY (MODIFIED)

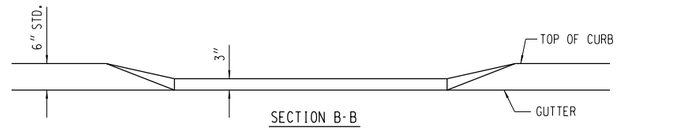




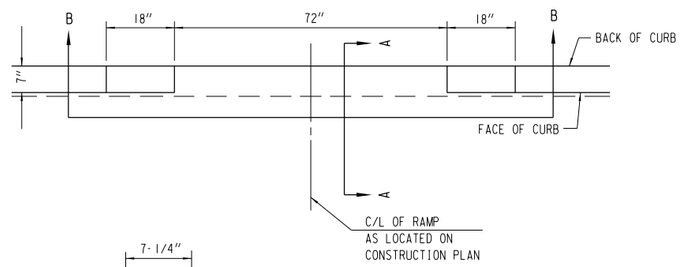
SECTION A-A

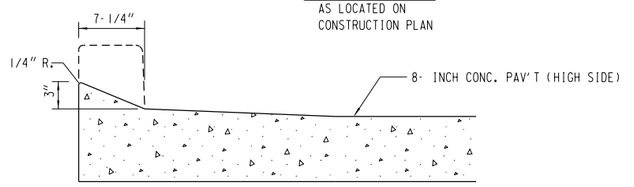
SNOWPLOWABLE MEDIAN ISLAND NOSE

(TYPICAL SECTION OF CONCRETE CURB & GUTTER
TO BE CONSTRUCTED AT END OF MEDIAN ISLAND)



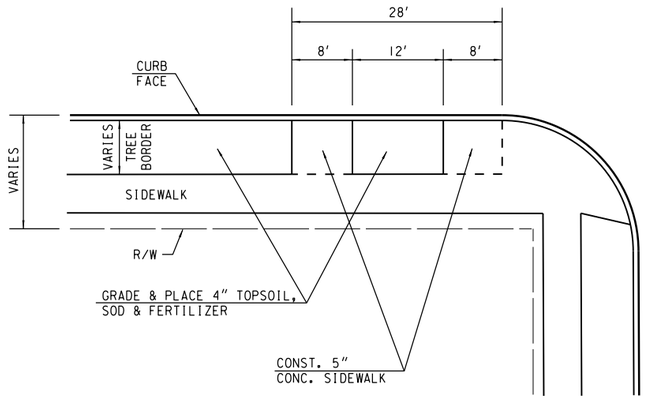
SECTION B-B





SECTION A-A

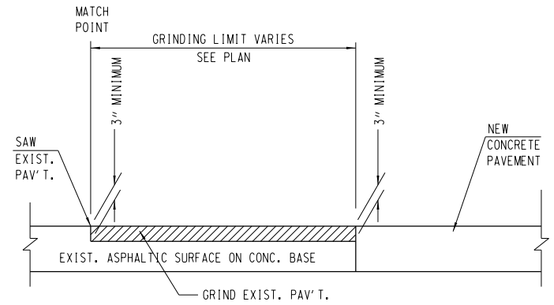
MAINTENANCE RAMP



BUS STOP WALK DETAIL

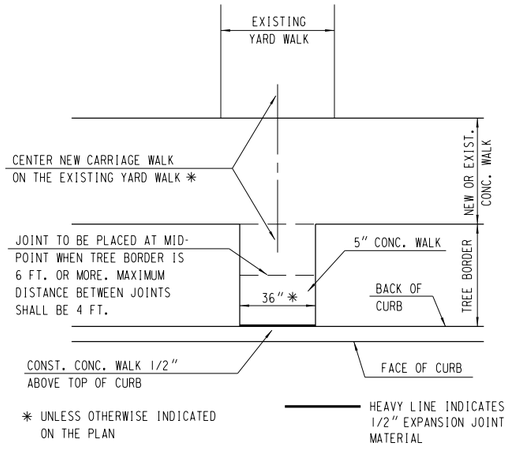
GENERAL NOTES

THE SLOPE OF PASSENGER BOARDING AREA MAY NOT EXCEED 2%.

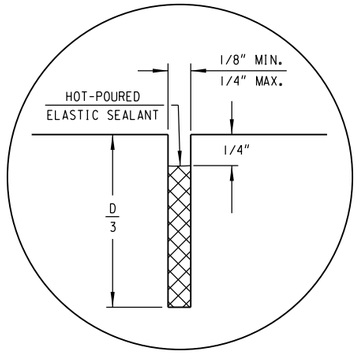


REMOVING ASPHALTIC SURFACE BUTT JOINTS

IN ROADWAY AT INTERSECTIONS AND ABUTTING PAVEMENT



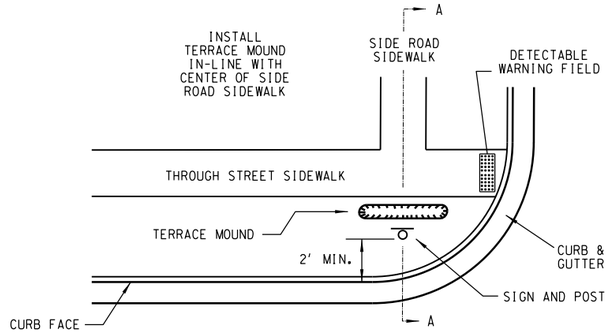
CARRIAGE WALK



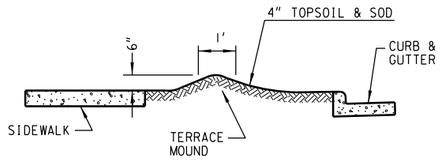
JOINT SEALING DETAIL

PAVEMENT DEPTH AND JOINT SPACING TABLE	
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6"	12'
7"	14'
8"	15'
9"	15'
10" & ABOVE	18'

2

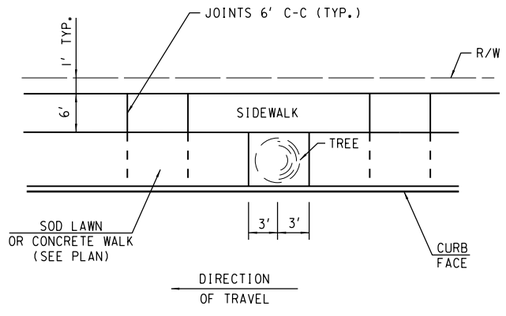


MOUND AND SIGN LOCATION DETAIL

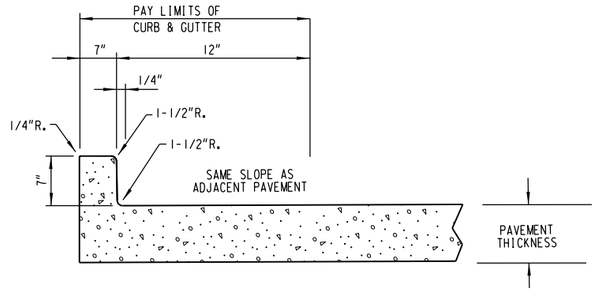


TERRACE MOUND DETAIL
SECTION A-A

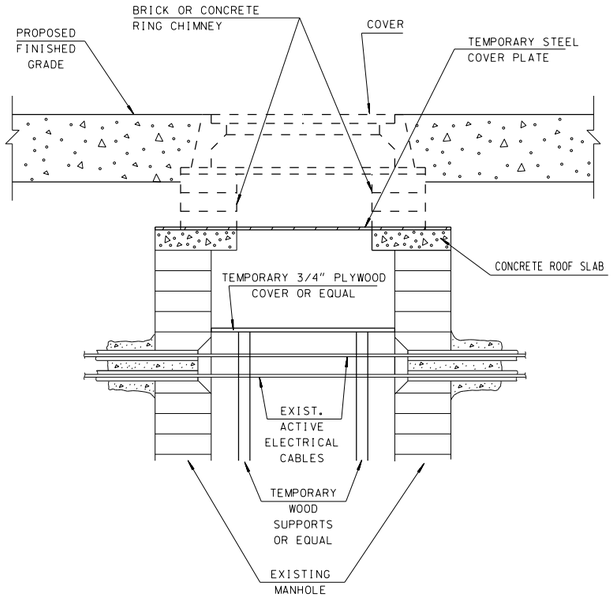
CROSSWALK CLOSURE DETAILS



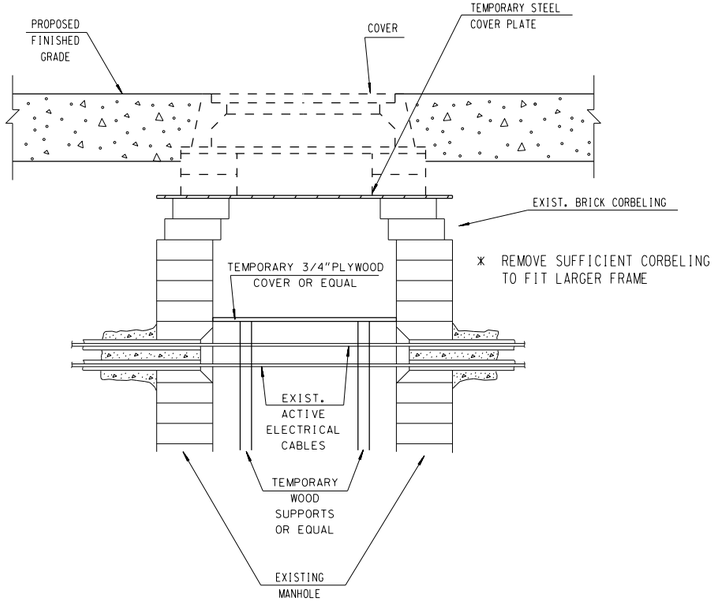
CONCRETE SIDEWALK DETAIL



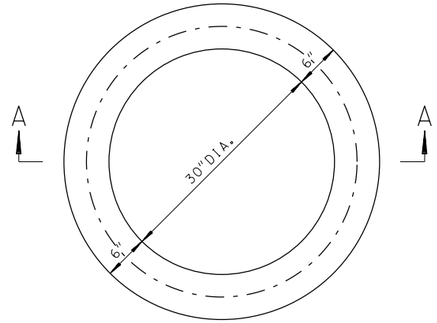
CONCRETE CURB & GUTTER INTEGRAL 19-INCH



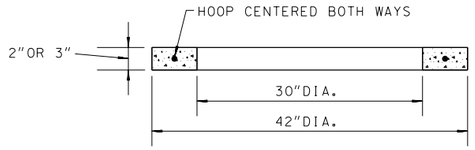
BLOCK OR PRECAST MANHOLE



BRICK ROUND MANHOLE



PLAN



SECTION A-A

THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

CONCRETE ADJUSTING RING

ADJUSTING TES MANHOLES

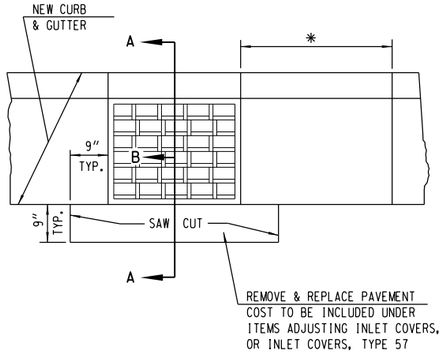
STATE PROJECT NUMBER 2190-00-70 / 2190-00-71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET NO: 20	E

FILENAME: W:\SPR\WISC_38-20COMBINED\CONDET.DGN

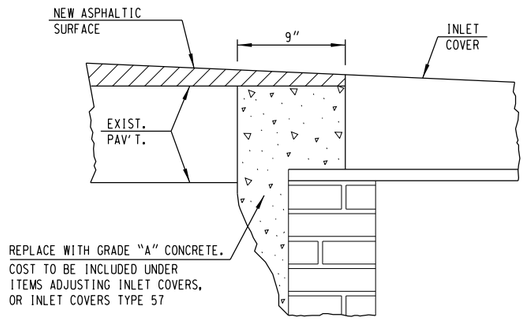
REVISED DATE: 07-14-2017 BY JH

2

* REMOVE 3'-0" CURB & GUTTER MIN. OR TO THE NEAREST JOINT, 6'-0" MAX. UNLESS OTHERWISE DIRECTED ON THE PLAN.

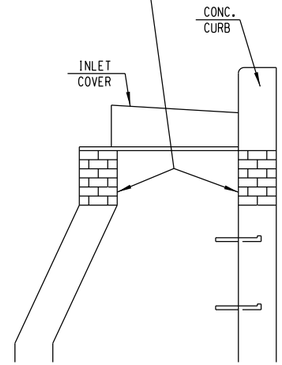


PLAN VIEW



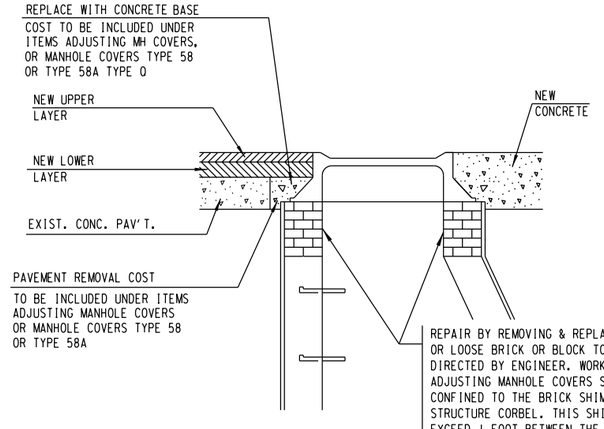
SECTION A-B

REPAIR BY REMOVING & REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO DEPTH AS DIRECTED BY ENGINEER. WORK UNDER ADJUSTING CATCH BASIN COVERS SHALL BE CONFINED TO THE BRICK SHIMMING ABOVE THE STRUCTURE CORBEL. THIS SHIMMING SHALL NOT EXCEED 1 FOOT BETWEEN THE TOP OF THE CORBEL AND THE FRAME BOTTOM. ANY WORK MORE EXTENSIVE THAN DESCRIBED IMMEDIATELY ABOVE SHALL BE CONSTRUED AS WORK UNDER RECONSTRUCTING CATCH BASINS. DEPTHS OF BRICKWORK TO BE REPAIRED, AS INDICATED ON THE PLAN, ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.



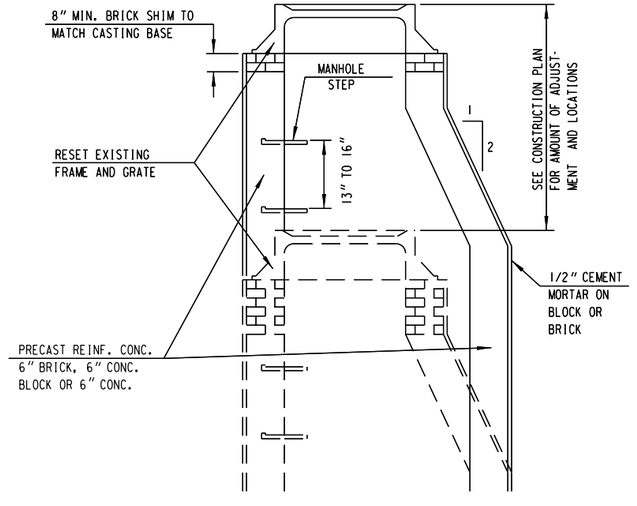
SECTION A-A

ADJUSTING INLET COVERS



ADJUSTING MANHOLE COVERS

OR MANHOLE COVERS TYPE 58A



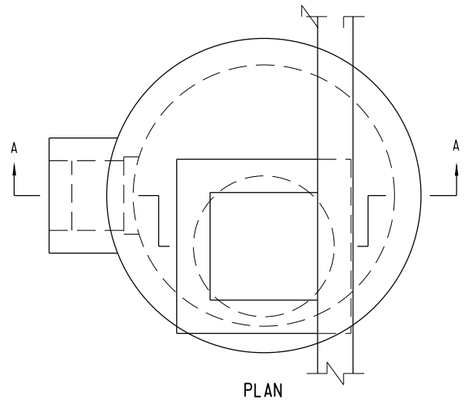
CORBEL MAY BE REVERSED STRAIGHT SIDE LEANED SLIGHTLY TO CLEAR CURB HEAD.

REPAIR BY REMOVING AND REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO THE DEPTH AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. DEPTHS AS INDICATED ON PLAN ARE ESTIMATES ONLY AND MAY VARY AT TIME OF CONSTRUCTION.

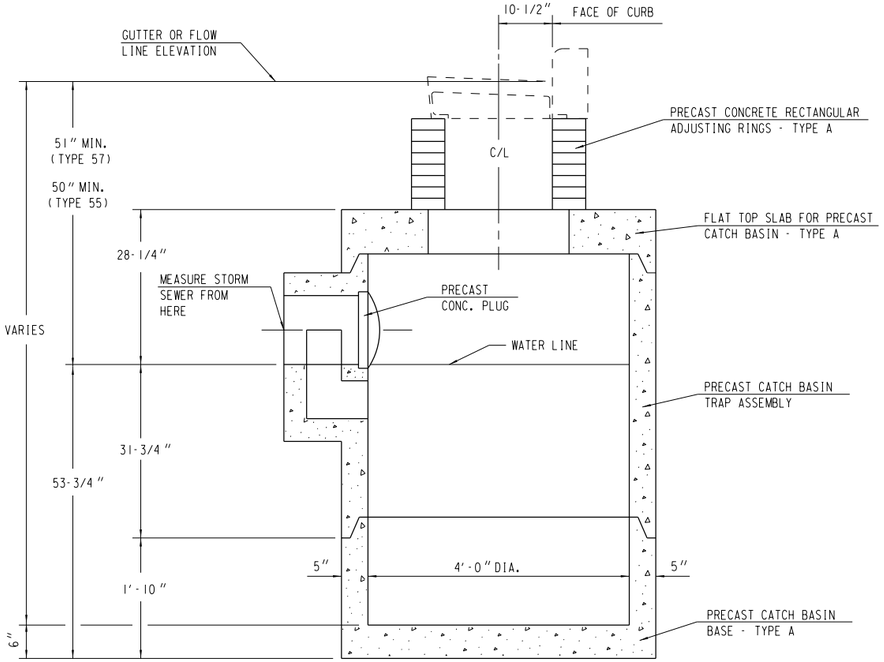
RECONSTRUCTING MANHOLES

CONSTRUCTION NOTES

1. LOCATIONS OF STRUCTURES IN CURB & GUTTER SECTIONS REFER TO FACE OF CURB.
2. LOCATIONS OF STRUCTURES NOT IN CURB AND GUTTER SECTIONS REFER TO CENTERLINE OF STRUCTURE.
3. PIPE LENGTHS GIVEN ARE APPROXIMATE OUT TO OUT OF STRUCTURE.
4. GRATE & RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET COVER OR AT CENTER-LINE OF MANHOLE COVER.
5. WHEN NEW COVERS ARE PLACED, THE FIRST 12" OF ADJUSTMENT OR REPAIRING SHALL BE INCLUDED IN THE COST OF THE NEW COVER. ANY ADJUSTMENT OR REPAIR OF BRICKWORK 12" OR LESS WILL BE PAID AS ADJUSTING COVERS WHEN RESETTING EXISTING COVERS, ANY ADJUSTMENT OR REPAIR OF BRICKWORK MORE THAN 12" WILL BE PAID AS A RECONSTRUCT.
6. MANHOLE ADJUSTMENTS IN ASPHALTIC PAVEMENT WILL BE MADE AFTER THE LOWER LAYER IS PLACED.
7. WHEN CONSTRUCTING CONCRETE CURB ADJACENT TO INLET COVER TYPE 57, TWO (2) DEFORMED TIE BARS SHALL BE PLACED LONGITUDINALLY THROUGH THE CURB SECTION AND EXTENDED ONE (1) FOOT BEYOND EACH SIDE OF THE FRAME. A DUMMY JOINT SHALL BE CUT IN THE CURB AT EACH SIDE OF THE FRAME.



PLAN

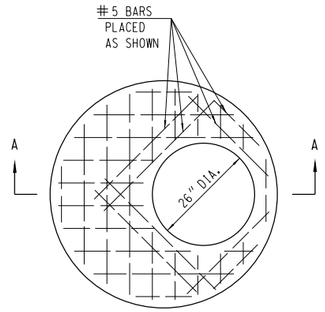


SECTION A-A

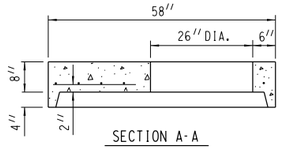
CATCH BASIN - TYPE 44A

GENERAL NOTES

1. REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED STEEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.
2. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4" IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.
5. A PRECAST CONCRETE PLUG SHALL BE CEMENTED INTO THE OPENING AT THE INNER FACE OF THE CATCH BASIN TRAP ASSEMBLY.



PLAN



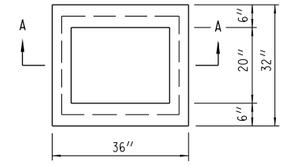
SECTION A-A

TOP SLAB - TYPE A

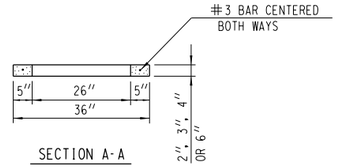
FLAT TOP SLAB SHALL BE 8" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



PLAN

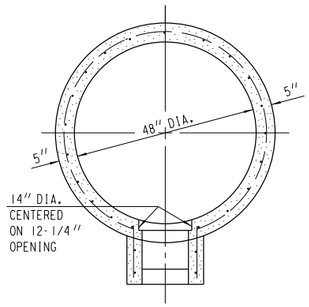


SECTION A-A

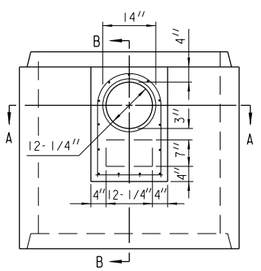
RECTANGULAR ADJUSTING RING - TYPE A

THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

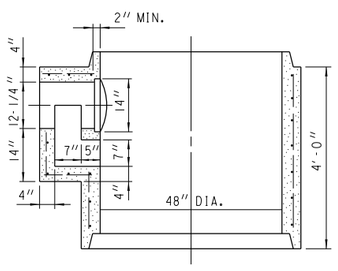
THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



SECTION A-A



PLAN



SECTION B-B

TRAP ASSEMBLY

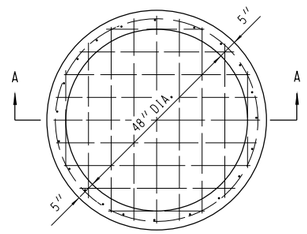
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL NOT LESS THAN 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

TRAP ASSEMBLY SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SECTION AS SHOWN.

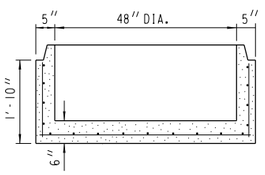
CIRCUMFERENTIAL AND TRAP ASSEMBLY REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.



PLAN



SECTION A-A

BASE - TYPE A

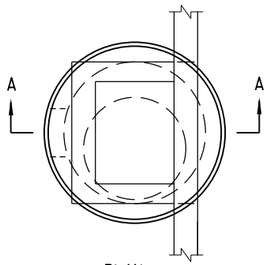
CIRCUMFERENTIAL REINFORCEMENT SHALL CONSIST OF ONE LINE OF STEEL NOT LESS THAN 0.12 SQ. IN. PER LINEAL FOOT, AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

BOTTOM SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.12 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED IN THE CENTER THIRD OF THE SLAB.

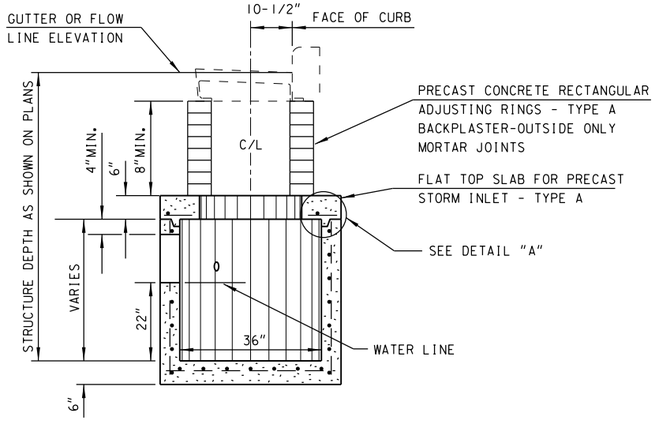
CIRCUMFERENTIAL AND BOTTOM SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.

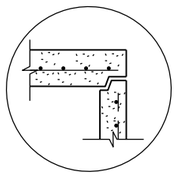
TWO HANDLING HOLES 2 1/4 INCHES IN DIAMETER SHALL BE CAST OR DRILLED IN THE WALL.



PLAN



SECTION A-A

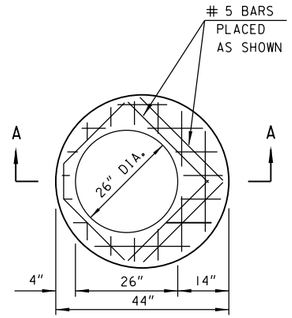


DETAIL "A"
TOP WITH TONGUE AND GROOVE JOINT

STORM INLET - TYPE 45A

GENERAL NOTES

1. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199 AND ASTM DESIGNATION C-478 AND THESE DETAILED REQUIREMENTS WHICH SHALL GOVERN WHERE THEY ALTER THE AASHTO AND ASTM STANDARDS.
2. ALL REINFORCEMENT STEEL SHALL BE GRADE 60 OR GREATER AND EMBEDDED AT LEAST 1" CLEAR.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4 IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.



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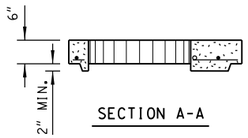


SECTION A-A

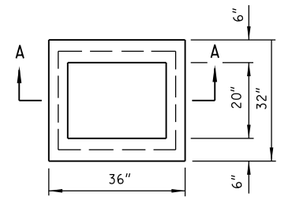
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 6" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED NEAR THE BOTTOM OF THE SLAB WITH 1" CLEAR COVER.

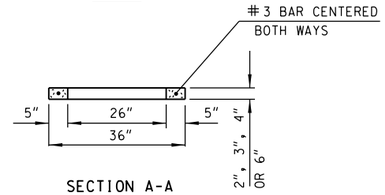
ADDITIONALLY, NO. 5 BARS SHALL BE PLACED AROUND TOP SLAB OPENING AS SHOWN.

REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.



PLAN

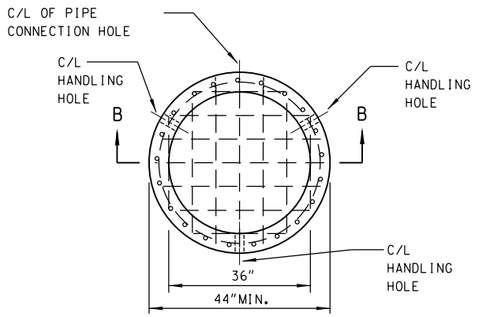


SECTION A-A

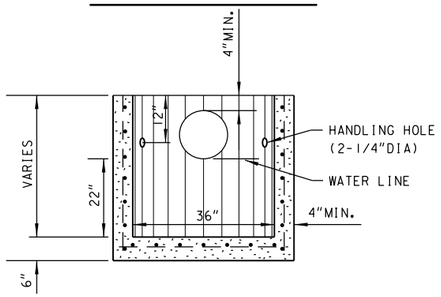
RECTANGULAR ADJUSTING RING - TYPE A

THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



RISER SECTION WITH INTEGRAL BASE PLAN



SECTION B-B

CIRCUMFERENTIAL AND LONGITUDINAL REINFORCEMENT IN THE RISER SECTON SHALL EACH CONSIST OF ONE LAYER OF STEEL NOT LESS THAN 0.12 SQ. IN. PER FOOT AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

THE BASE SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SQ. IN. PER FOOT IN BOTH DIRECTIONS, PLACED ABOVE THE MIDPOINT OF THE SLAB.

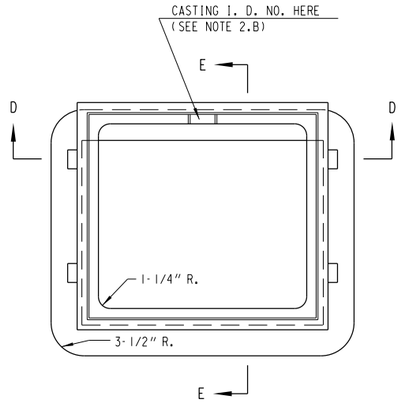
RISER SECTION AND BASE SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

TWO TO THREE HANDLING HOLES 2-1/4" IN DIAMETER AND A PIPE CONNECTION HOLE SHALL BE CAST OR CORED IN THE RISER SECTION AT THE LOCATIONS SHOWN. LIFTING DEVICES MAY BE SUBSTITUTED FOR HANDLING HOLES.

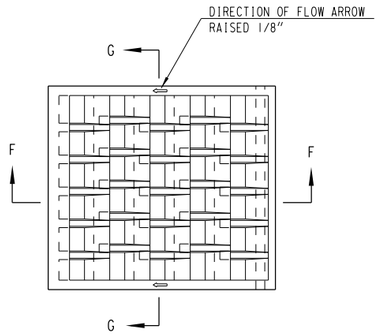
NO JOINTS OR HOLES SHALL BE BELOW THE WATERLINE.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.

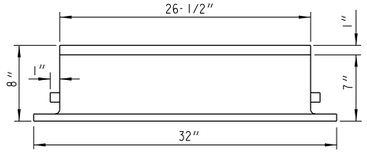
RISER SECTION MAY TAPER TO A 33" INTERNAL DIAMETER AT IT'S BOTTOM PROVIDED A 44" MINIMUM OUTSIDE DIAMETER IS MAINTAINED.

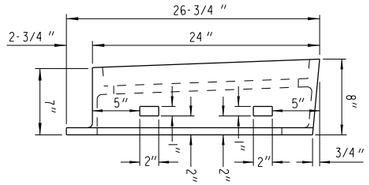


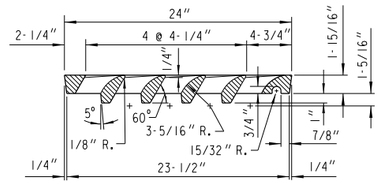
FRAME



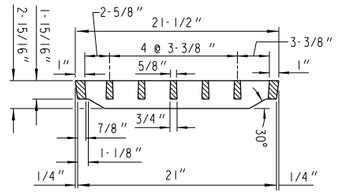
GRATE



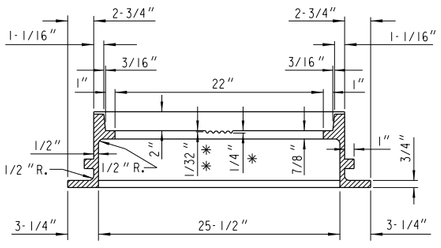




SECTION F-F



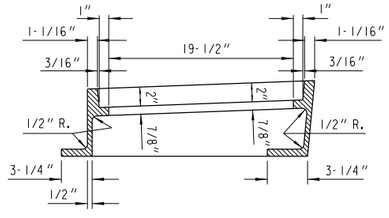
SECTION G-G



SECTION D-D

✳ DEPRESSION FOR LETTERS

✳ ✳ CLEARANCE FROM TOP OF LETTERS TO FACE OF SEAT



SECTION E-E

GENERAL NOTES

1. ALL EDGES ARE TO BE GROUND
2. ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED"1/8

ON THE FRAME

A) ON THE UPPER FACE OF THE FLANGE IN 1 INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

B) ON THE SEAT OF THE FRAME IN 1 INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (51).

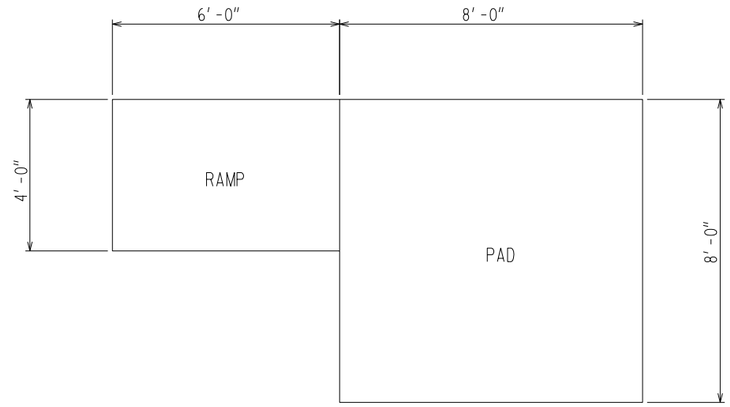
ON THE GRATE

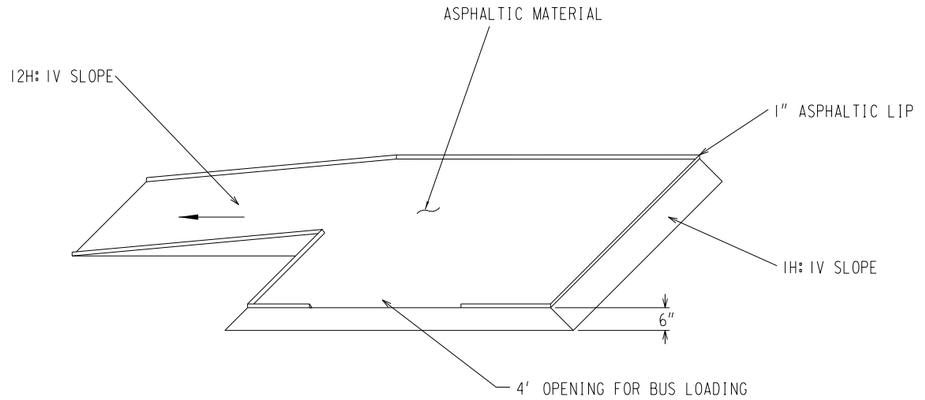
C) ON THE UPPER SIDE OF THE GRATE IN 1 INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

INLET COVER - TYPE MS 57

LID-145 LBS., FRAME-204 LBS.

2



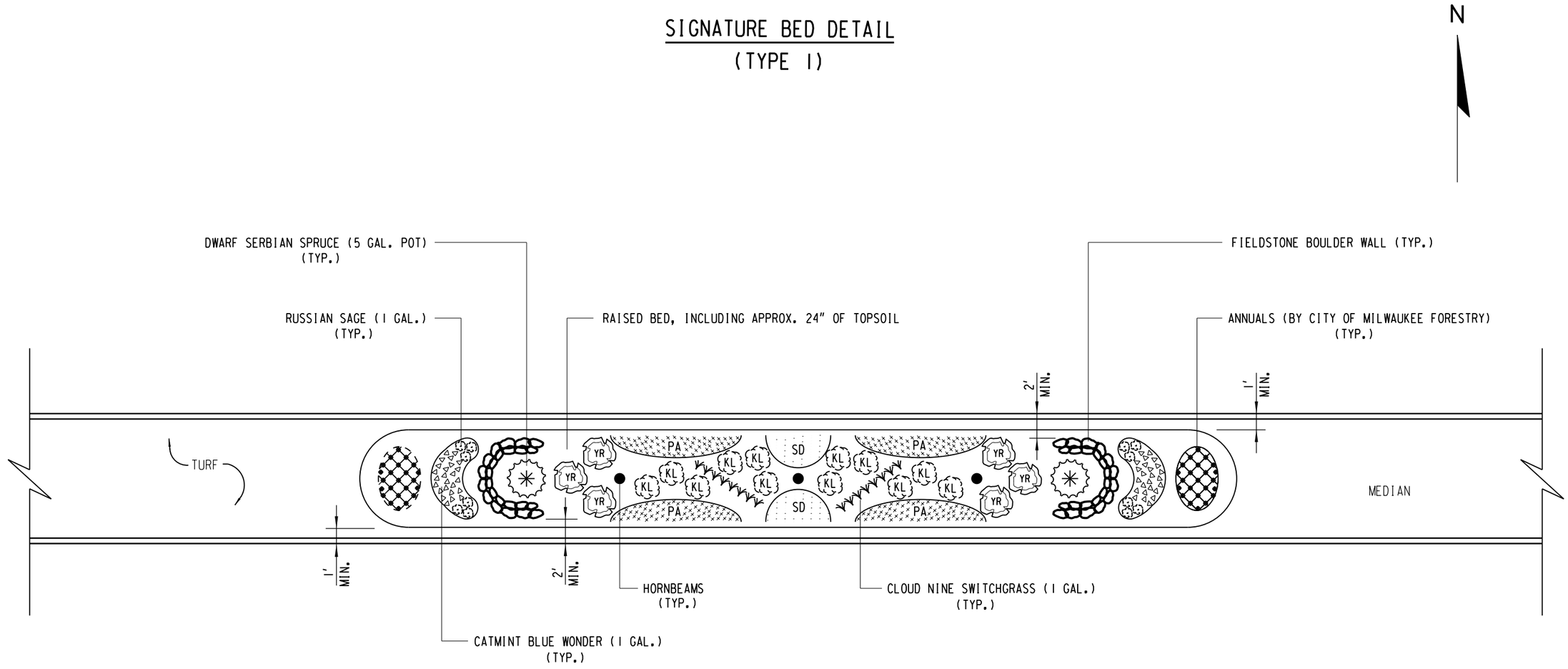


NOTE:
RAMP MAY BE LONGER
IF ROADWAY SLOPE REQUIRES

NOTE:
RAMP SHALL BE PLACED TO FACE
TOWARDS PEDESTRIAN CROSSING

TEMPORARY BUS LOADING ZONE

SIGNATURE BED DETAIL
(TYPE 1)



NO.	LOCATIONS
1.	139 + 50 TO 140 + 50

LEGEND

YR	YELLOW KNOCKOUT ROSE (3 GAL.)
KL	DWARF KOREAN LILAC (3 GAL.)
SD	SHASTA DAISYS 'BECKY' (1 GAL.)
PA	WOODS PURPLE ASTER

NOTE:

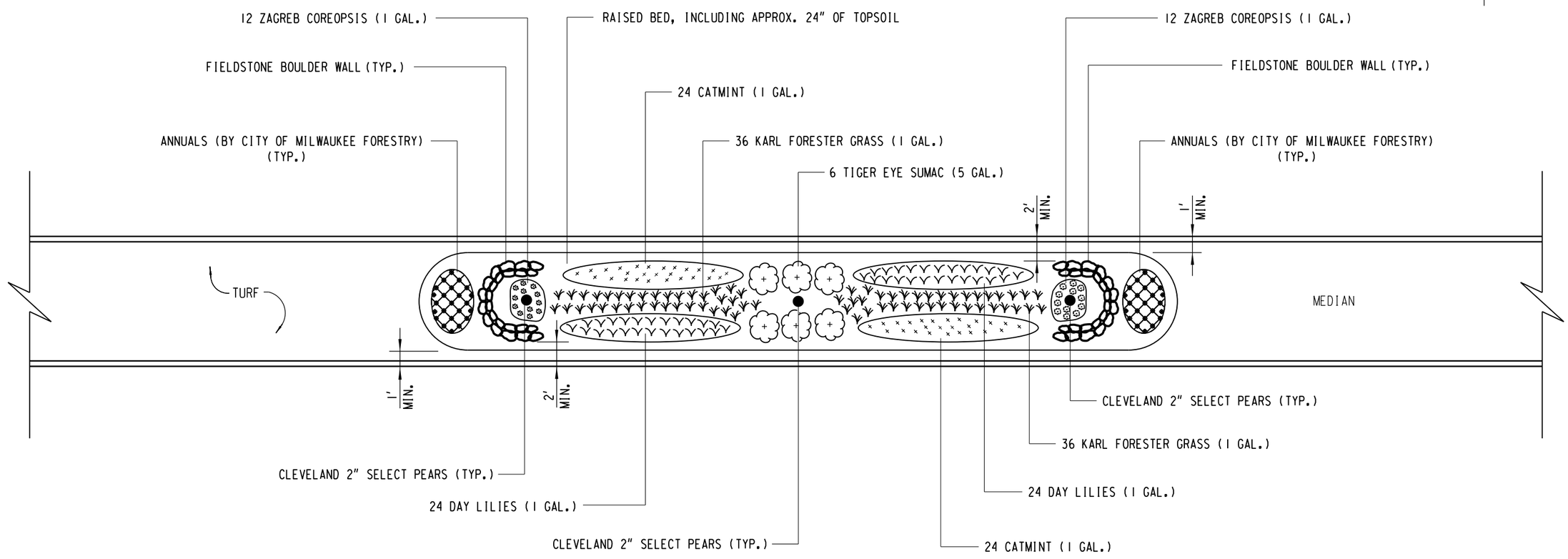
SHREDDED BARK MULCH AROUND ALL TREES AND IN BED 3-4" DEPTH. SHOVEL CUT BED EDGE.

ESTIMATE OF QUANTITIES

ITEM	UNIT	TOTAL
DWARF SERBIAN SPRUCE	EACH	2
RUSSIAN SAGE	EACH	12
CATMINT BLUE WONDER	EACH	24
CLOUD NINE SWITCHGRASS	EACH	14
YELLOW KNOCKOUT ROSE	EACH	6
DWARF KOREAN LILAC	EACH	12
SHASTA DAISYS 'BECKY'	EACH	24
WOODS PURPLE ASTER	EACH	72
HORNBEAMS	EACH	3

SIGNATURE BED DETAIL
(TYPE 2)

N



NO.	LOCATIONS
1.	108 + 20 TO 108 + 90
2.	149 + 80 TO 150 + 50

ESTIMATE OF QUANTITIES

ITEM	UNIT	TOTAL
CLEVELAND SELECT PEAR	EACH	3
KARL FORESTER GRASS	EACH	72
CATMINT BLUE WONDER	EACH	48
TIGER EYE SUMAC	EACH	6
DAY LILIES	EACH	48
ZAGREB COREOPSIS	EACH	24

NOTE:

SHREDDED BARK MULCH AROUND
ALL TREES AND IN BED 3-4" DEPTH.
SHOVEL CUT BED EDGE.

2

GENERAL NOTES

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

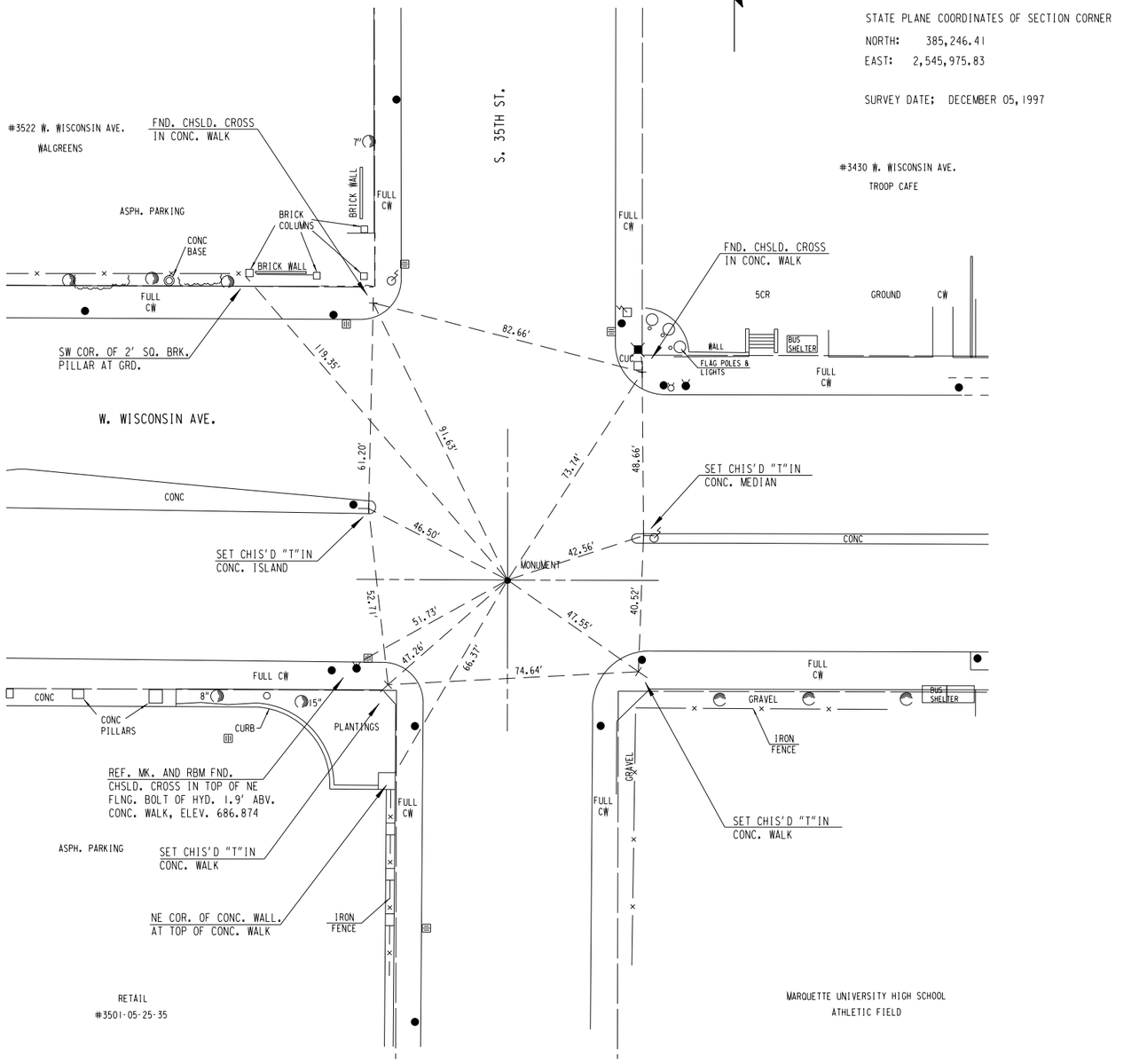
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION, CONSTRUCTION SECTION.

INSTALLATION OF PRECAST MONUMENT TO BE SUPERVISED BY CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION, CONSTRUCTION SECTION FOR ACCURACY OF LOCATION.

LANDMARK REFERENCE MONUMENT TO BE REPLACED

LOCATIONS W. WISCONSIN AVE.	STATION	REMARKS
AT S. 35TH ST.	30+33.00 ON T/L	SEE SPECIAL PROVISIONS FOR INFORMATION ON RESTORATION OF MONUMENTS

MONUMENT MARKER LOGO
(TO BE FURNISHED BY OTHERS)



U.S. PUBLIC LAND SURVEY CORNER
W. WISCONSIN AVE. & N. 35TH ST.

LANDMARK REFERENCE MONUMENT

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SCALE FEET 0' 40'	SHEET NO: 28	E

FILENAME: W:\SPR\WISC_38-35\LANDMARK.DGN

REVISED DATE: 09-08-2017 BY BB

GENERAL NOTES

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

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION, CONSTRUCTION SECTION.

INSTALLATION OF PRECAST MONUMENT TO BE SUPERVISED BY CITY OF MILWAUKEE, INFRASTRUCTURE SERVICES DIVISION, CONSTRUCTION SECTION FOR ACCURACY OF LOCATION.

LANDMARK REFERENCE MONUMENT TO BE REPLACED

LOCATIONS

W. WISCONSIN AVE.	STATION	REMARKS
AT N. 20TH ST.	156+28.88 ON T/L	SEE SPECIAL PROVISIONS FOR INFORMATION ON RESTORATION OF MONUMENTS

WISCONSIN REGIONAL SURVEY COMMISSION S.E. LINE FOR DISTURBING THIS MONUMENT 21 22 28 27 SEC. NOTIFY

MONUMENT MARKER LOGO
(TO BE FURNISHED BY OTHERS)

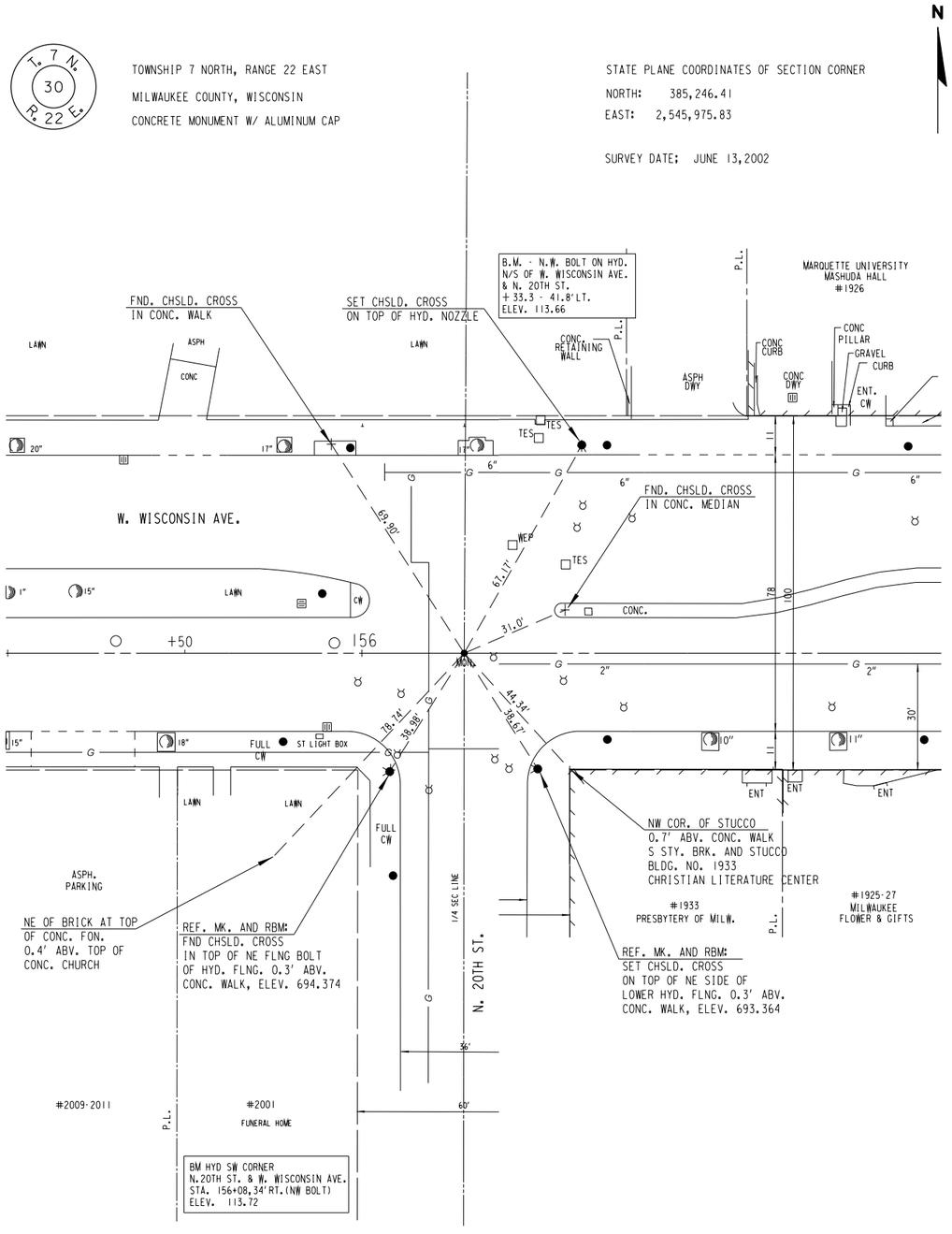
LANDMARK REFERENCE MONUMENT

T. 7 N. 30 R. 22 E.

TOWNSHIP 7 NORTH, RANGE 22 EAST
MILWAUKEE COUNTY, WISCONSIN
CONCRETE MONUMENT W/ ALUMINUM CAP

STATE PLANE COORDINATES OF SECTION CORNER
NORTH: 385,246.41
EAST: 2,545,975.83

SURVEY DATE; JUNE 13,2002



WEST

WISCONSIN AVENUE

N

21+60.1, 67' LT
96.07TC

21+65.1, 67' LT
96.55TC

21+60.1, 66.5' LT
95.57

21+65.1, 66.5' LT
95.65

21+60.1, 61.5' LT
95.67

21+65.1, 61.5' LT
95.74

PC

21+54.6-FF

21+60.1-"0"F

21+31.4-"0"F

21+33.4-FF

INSET "A"

SLOPE INTERCEPT

R/W

8' CW

21+50, 59' LT
95.70C
95.20G

℄ +62.6 CURB RAMP TYPE 7A MOD.

21+75.1, 66.5' LT
96.50

21+75, 59' LT
96.35C
95.85G

SEE INSET "A"

20

21

22

T/L

21+8.5, 31.2' RT
94.17C
94.00G

21+57.3, 24' RT
95.35C
95.10G
95.18F

21+55.1, 27' RT
95.24

21+54.9, 32' RT
95.16

21+46.7, 28.4' RT
95.15C
94.90G

21+48.9, 32.5' RT
95.13

21+0.1, 27.7' RT
94.20C
93.70G
93.78F

℄ +62.6 CURB RAMP TYPE 3 MOD

21+75.1, 24' RT
96.20C
95.70G

SEE INSET "C"

SEE INSET "D"

5' CW

FULL WALK

R/W

35' RT-℄ CURB RAMP TYPE 2M ℄ 35' RT-

20+99.2, 32.7' RT
94.28

20+99.2, 37.7' RT
94.32

21+5.2, 32.7' RT
94.20

21+5.2, 37.7' RT
94.28

21+12, 39.6' RT
94.60C
94.10G
94.14F

21+42.3, 39' RT
94.20C
93.70G
93.78F

21+48.9, 37.5' RT
95.05

21+54.9, 37.5' RT
95.13

LAWN

N. 38TH ST.

21+75.1, 32' RT
96.32

21+65.1, 27' RT
95.49

21+65.1, 32' RT
95.52

21+60.1, 27' RT
95.41

21+60.1, 32' RT
95.49

21+54.9, 42.5' RT
95.43

SLOPE INTERCEPT

INSET "B"

21+57.0-"0"F

21+60.0-"0"F

21+65.0-"0"F

21+75.0-"0"F

27.4' RT.-"0"F

32.4' RT.-"0"F

37.4' RT.-"0"F

39.4' RT.-"0"F

INSET "C"

29.5' RT.-FF

32.5' RT.-"0"F

37.5' RT.-"0"F

39.5' RT.-FF

(PC) CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

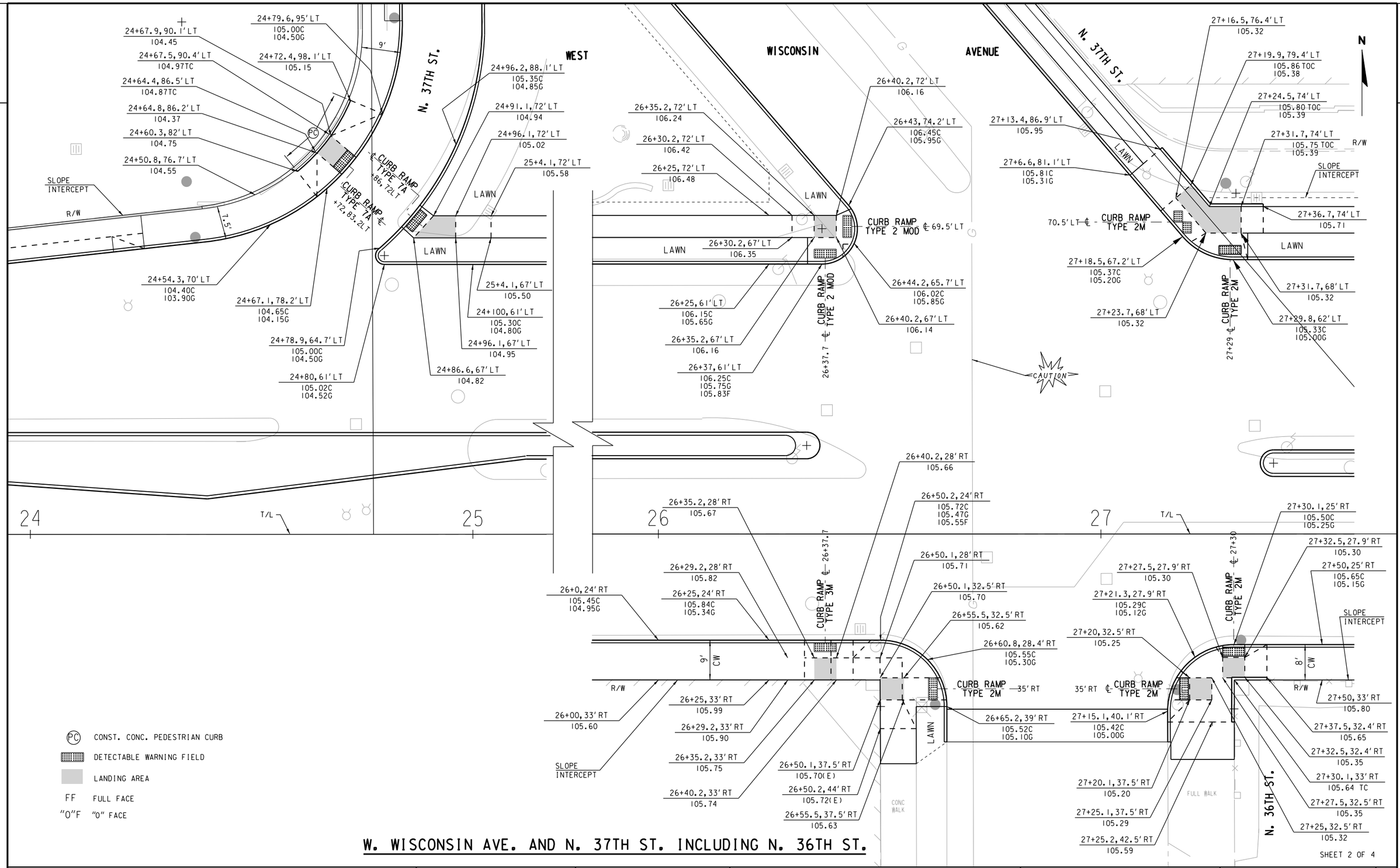
W. WISCONSIN AVE. AND N. 38TH ST.

SHEET 1 OF 4

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 30	E

FILENAME: W:\SPR\WISC_38-35\RAMP DETAILS\RD_38TH.DGN

REVISED DATE: 10-26-2017 BY ML



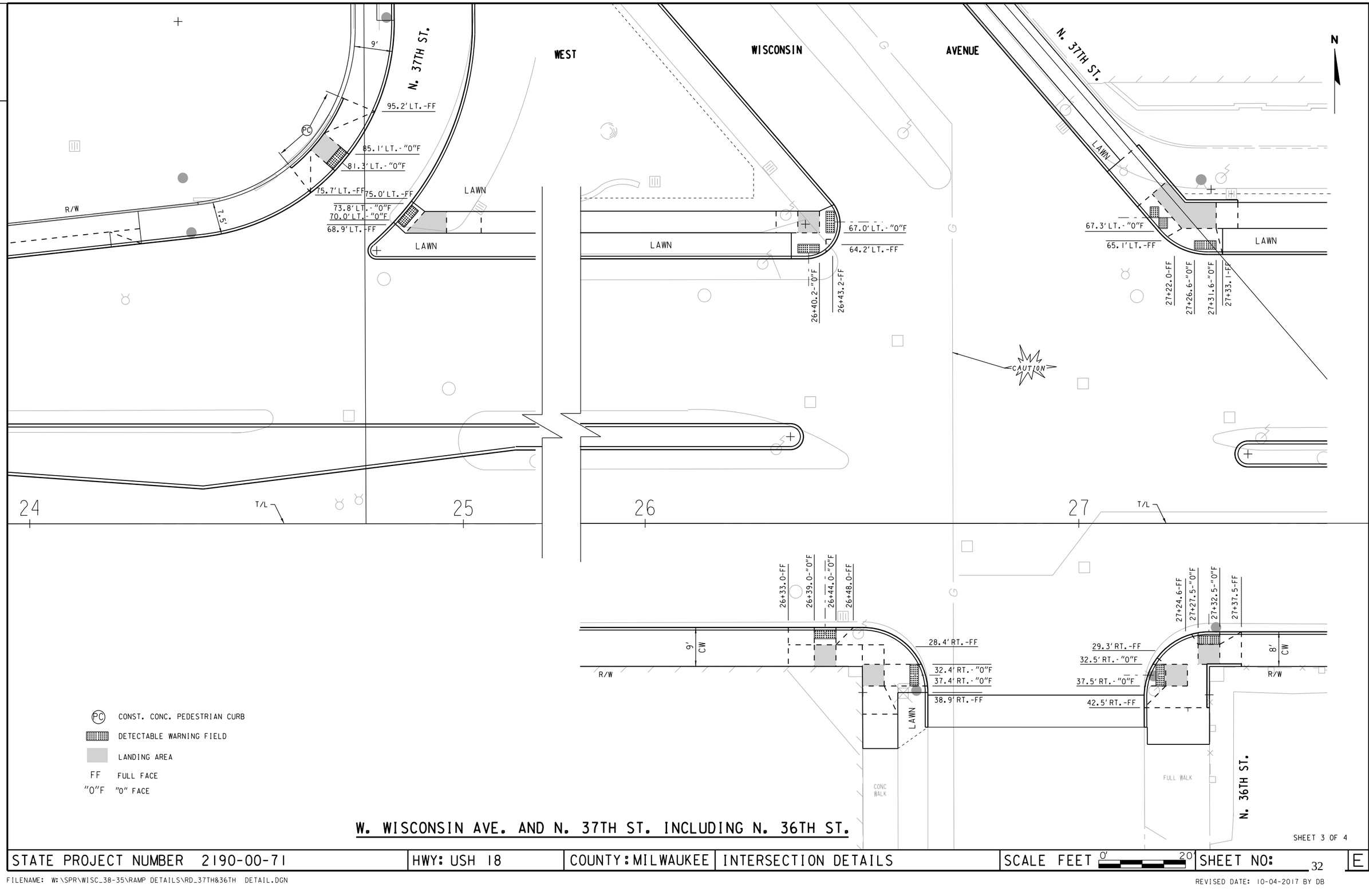
W. WISCONSIN AVE. AND N. 37TH ST. INCLUDING N. 36TH ST.

SHEET 2 OF 4

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 31 E

FILENAME: W:\SPR\WISC_38-35\RAMP DETAILS\RD_37TH&36TH.DGN

REVISED DATE: 12-19-2016 BY DB



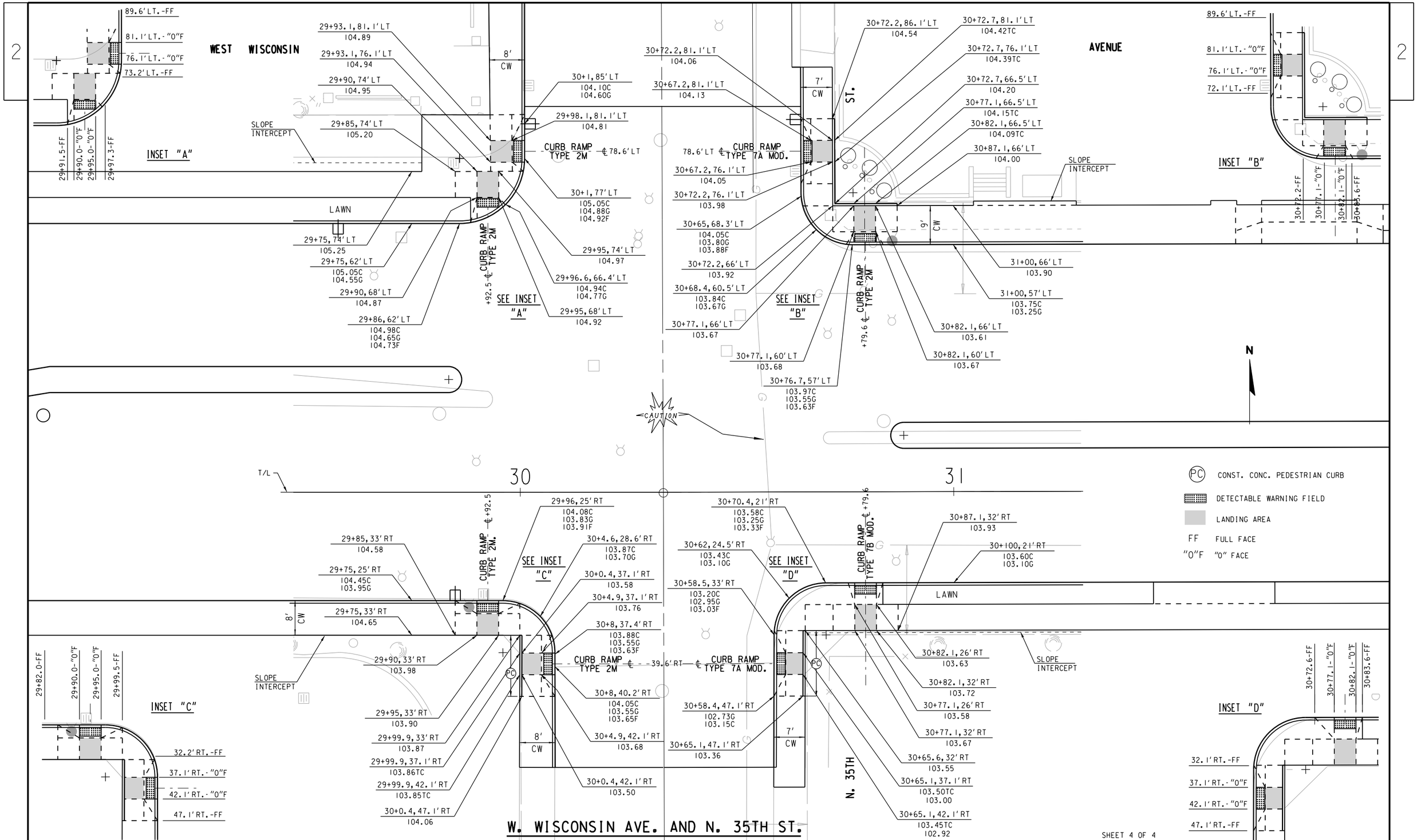
W. WISCONSIN AVE. AND N. 37TH ST. INCLUDING N. 36TH ST.

SHEET 3 OF 4

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 32	E

FILENAME: W:\SPR\WISC_38-35\RAMP DETAILS\RD_37TH&36TH DETAIL.DGN

REVISED DATE: 10-04-2017 BY DB

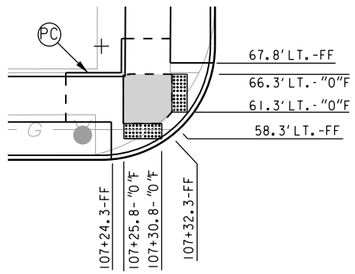


SHEET 4 OF 4

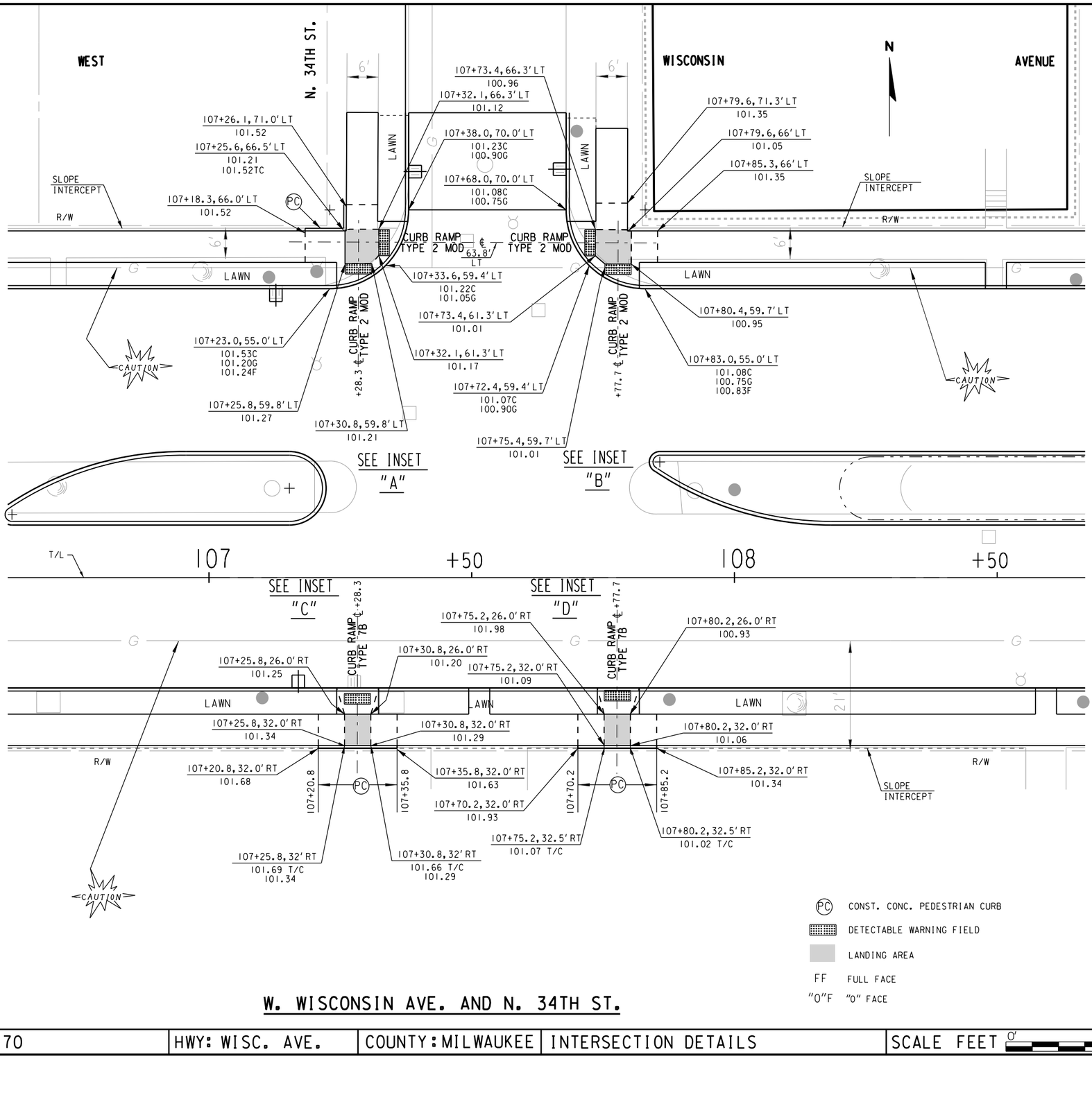
STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 33	E

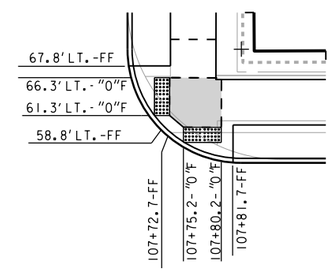
FILENAME: W:\SPR\WISC_38-35\RAMP DETAILS\RD_35TH.DGN

REVISED DATE: 10-02-2017 BY DLF



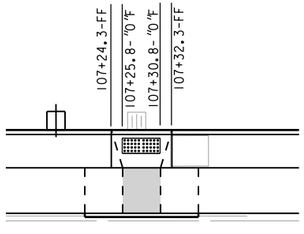
INSET "A"



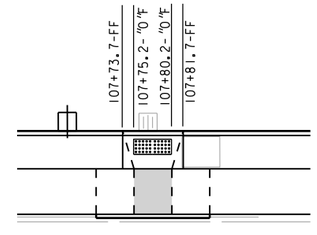


INSET "B"

INSET "C"



INSET "D"



PC CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

W. WISCONSIN AVE. AND N. 34TH ST.

SHEET 1 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 34	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_34TH.DGN

REVISED DATE: 10-02-2017 BY ML

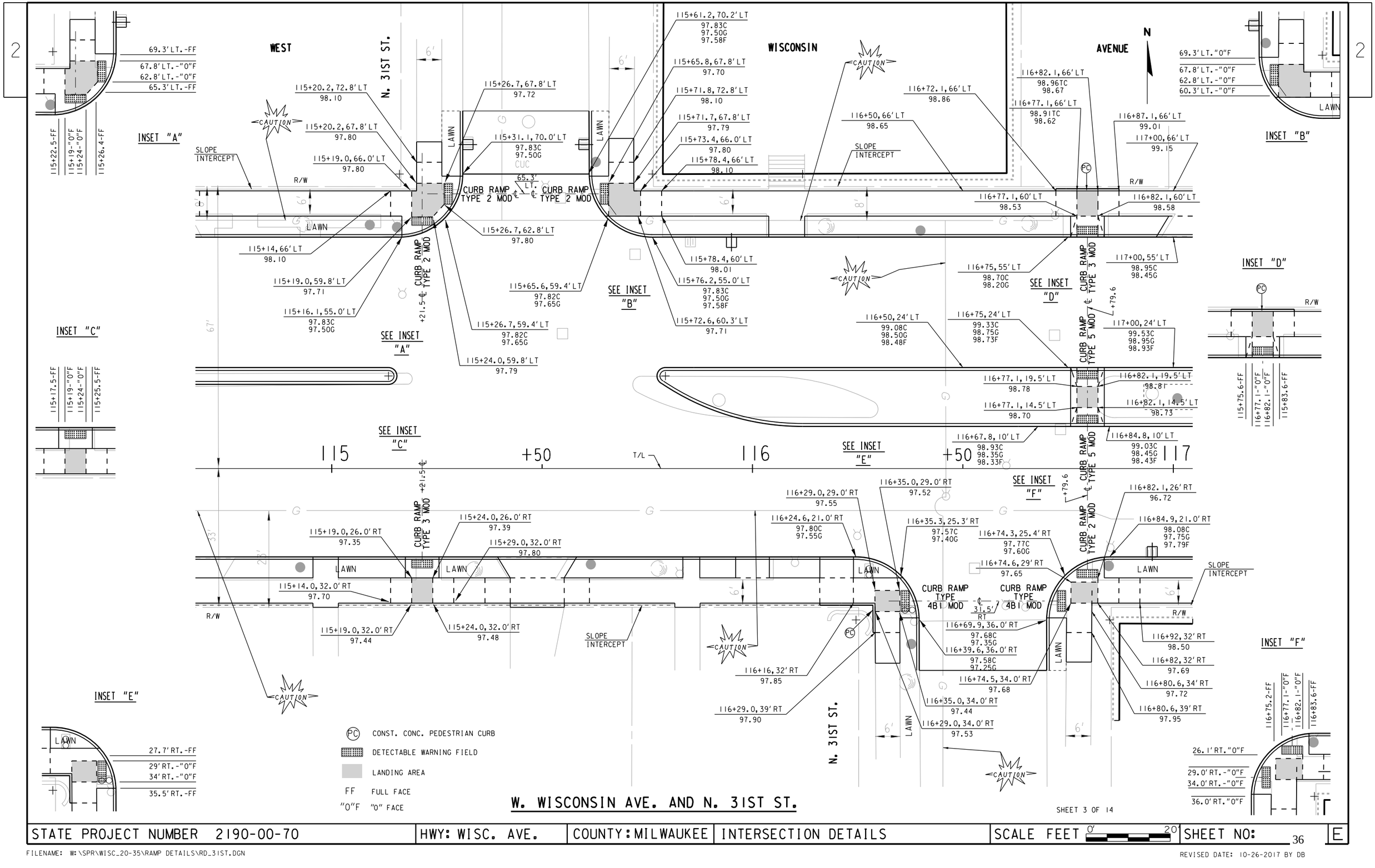
W. WISCONSIN AVE. AND N. 32ND ST.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 35 E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_32ND.DGN

REVISED DATE: 10-03-2017 BY SB

SHEET 2 OF 14



W. WISCONSIN AVE. AND N. 31ST ST.

SHEET 3 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 36 E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_31ST.DGN

REVISED DATE: 10-26-2017 BY DB

WEST WISCONSIN AVENUE

N

INSET "A"

INSET "B"

INSET "C"

INSET "D"

SLOPE INTERCEPT

R/W

LAWN

119+58.0, 60.0' LT
101.04

119+63.0, 60.0' LT
101.10

120+08.5, 60.0' LT
101.45

120+13.5, 60.0' LT
101.50

CURB RAMP TYPE 3 MOD ℄ +60.5

CURB RAMP TYPE 3 MOD ℄ +11.0

SEE INSET "A"

SEE INSET "B"

SEE INSET "C"

SEE INSET "D"

CAUTION

+50 119 T/L +50 120 +50 121

119+58, 66.0' LT
101.13

119+53, 66' LT
101.38

119+63, 66.0' LT
101.19

119+70, 66' LT
101.55

120+08.5, 66.0' LT
101.54

120+4.5, 66' LT
101.75

120+13.5, 66.0' LT
101.59

120+18.5, 66' LT
101.90

119+56.5-FF
119+58- 0"F
119+63-FF
119+64.5- 0"F

120+7.0-FF
120+8.5- 0"F
120+13.5-FF
120+15.0- 0"F

119+54.9, 21.0' RT
100.68C
100.35G
100.43F

119+57.9, 27.0' RT
100.50

119+64.4, 27.0' RT
100.45

120+08.0, 26.0' RT
100.73

120+15.1, 21.0' RT
100.98C
100.65G
100.78F

120+04.5, 25.4' LT
100.67C
102.50G

120+14.0, 26.0' RT
100.82

119+65.5, 25.4' RT
100.37C
100.20G

CURB RAMP TYPE 2 MOD ℄ CURB RAMP TYPE 2 MOD

119+47.9, 32' RT
100.90

119+52.9, 32' RT
100.70

119+57.9, 33.0' RT
100.50

119+57.9, 37' RT
100.65

29.7' RT

120+00.1, 36.0' RT
100.68C
100.35G
100.43F

120+08.0, 32.0' RT
100.73

119+69.9, 35.9' RT
100.43C
100.10G
100.14F

119+64.4, 33.0' RT
100.45

120+25, 32' RT
101.50

120+14.0, 32.0' RT
101.20TC
100.82

120+13.9, 40.3' RT
100.67(E)

120+7.9, 40.3' RT
100.50(E)

119+56.5-FF
119+58.0- 0"F
119+63.0- 0"F
119+64.5-FF

24.9 RT-FF
27.2 RT- 0"F
32.2 RT- 0"F
33.7 RT-FF

120+6.3-FF
120+8.5- 0"F
120+13.5- 0"F
120+15-FF

25.1 RT- 0"F
27.0 RT- FF
32.0 RT- FF
33.5 RT- FF

N. 30TH ST.

(PC) CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

W. WISCONSIN AVE. AND N. 30TH ST.

SHEET 4 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 37	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_30TH.DGN

REVISED DATE: 10-26-2017 BY ML

2

WEST

WISCONSIN

AVENUE

N

N. 29TH ST.

CAUTION

SLOPE INTERCEPT

LAWN

CURB RAMP TYPE 2 MOD

CURB RAMP TYPE 3 MOD

121+80.4, 78.6' LT
103.41(E)

121+75, 78.6' LT
103.56(E)

121+74.9, 70.5' LT
103.08

121+69.9, 66' LT
103.40

121+69.5, 69.5' LT
103.13C
102.80G
102.88F

121+74.9, 65.5' LT
103.18

121+80.5, 70.5' LT
102.99

121+84.5, 70.0' LT
102.13C
102.80G
102.88F

122+18.2, 70.6' LT
103.18

122+14.6, 70' LT
103.33C
103.00G
103.08F

67.9' LT

122+24.1, 65.3' LT
103.26

121+80.5, 65.5' LT
103.04

121+80.1, 59.4' LT
103.12C
102.95G

122+19.1, 59.4' LT
103.32C
103.15G

122+24.1, 70.3' LT
103.26

122+60.3, 66.0' LT
103.78

122+24.1, 65.3' LT
103.26

122+29.1, 66' LT
103.65

122+55.3, 66' LT
103.82

122+60.3, 62.0' LT
103.72

122+29.7, 55.0' LT
103.95C
103.03G
103.15F

+62.8 ℄

122+65.3, 66.0' LT
103.86

122+70.3, 66' LT
104.15

122+65.3, 62.0' LT
103.80

123+15.2, 66.0' LT
104.42

123+10.2, 66' LT
104.55

123+15.2, 62.0' LT
104.36

+17.7 ℄

123+20.2, 66.0' LT
104.50

123+25.2, 66' LT
104.75

123+20.2, 62.0' LT
104.44

SEE INSET "A"

SEE INSET "B"

SEE INSET "C"

SEE INSET "D"

SEE INSET "E"

SEE INSET "F"

(FC) CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

INSET "A"

72.3' LT.-FF
70.3' LT.-"0"F
65.3' LT.-"0"F
61.3' LT.-FF

INSET "B"

72.3' LT.-FF
70.3' LT.-"0"F
65.3' LT.-"0"F
61.7' LT.-FF
LAWN

INSET "C"

122+58.8-FF
122+60.3-"0"F
122+65.3-"0"F
122+66.8-FF

INSET "D"

123+13.7-FF
123+15.2-"0" F
123+20.2-"0" F
123+21.7-FF

INSET "E"

122+58.8-FF
122+60.3-"0"F
122+65.3-"0"F
122+66.5-FF
24.7' RT.-FF
26.9' RT.-"0"F
31.9' RT.-"0"F
36.4' RT.-FF

INSET "F"

123+12.0-FF
123+15.2-"0"F
123+20.2-"0"F
123+21.7-FF
24.4' RT.-FF
26.9' RT.-"0"F
31.9' RT.-"0"F
33.4' RT.-FF

122 T/L +50

123 +50

122+59.7, 21.0' RT
103.13C
102.80G
102.88F

122+59.8, 26.0' RT
103.03

122+54.8, 26' RT
103.26

122+54.8, 32' RT
103.35

122+59.8, 32.0' RT
103.10

122+60, 37.0' RT
103.39

122+65.6, 37.0' RT
103.30

122+65.8, 26.0' RT
103.10

122+57.4, 25.4' RT
103.12C
102.95G

123+14.7, 26.0' RT
103.23

123+09.5, 25.4' RT
103.12C
102.95G

122+74.7, 35.9' RT
103.22C
102.80G
102.88F

122+65.8, 32.0' RT
103.15

29.4' RT

123+20.1, 21' RT
103.43C
103.10G
103.14F

123+20.7, 26.0' RT
103.29

123+25.7, 26.0' RT
103.56

123+25.7, 32' RT
103.65

123+20.7, 32.0' RT
103.38

123+20.7, 37' RT
103.50

123+14.7, 32.0' RT
103.29

123+14.9, 37' RT
103.41

123+05.1, 36.0' RT
103.30C
102.80G
102.88F

R/W

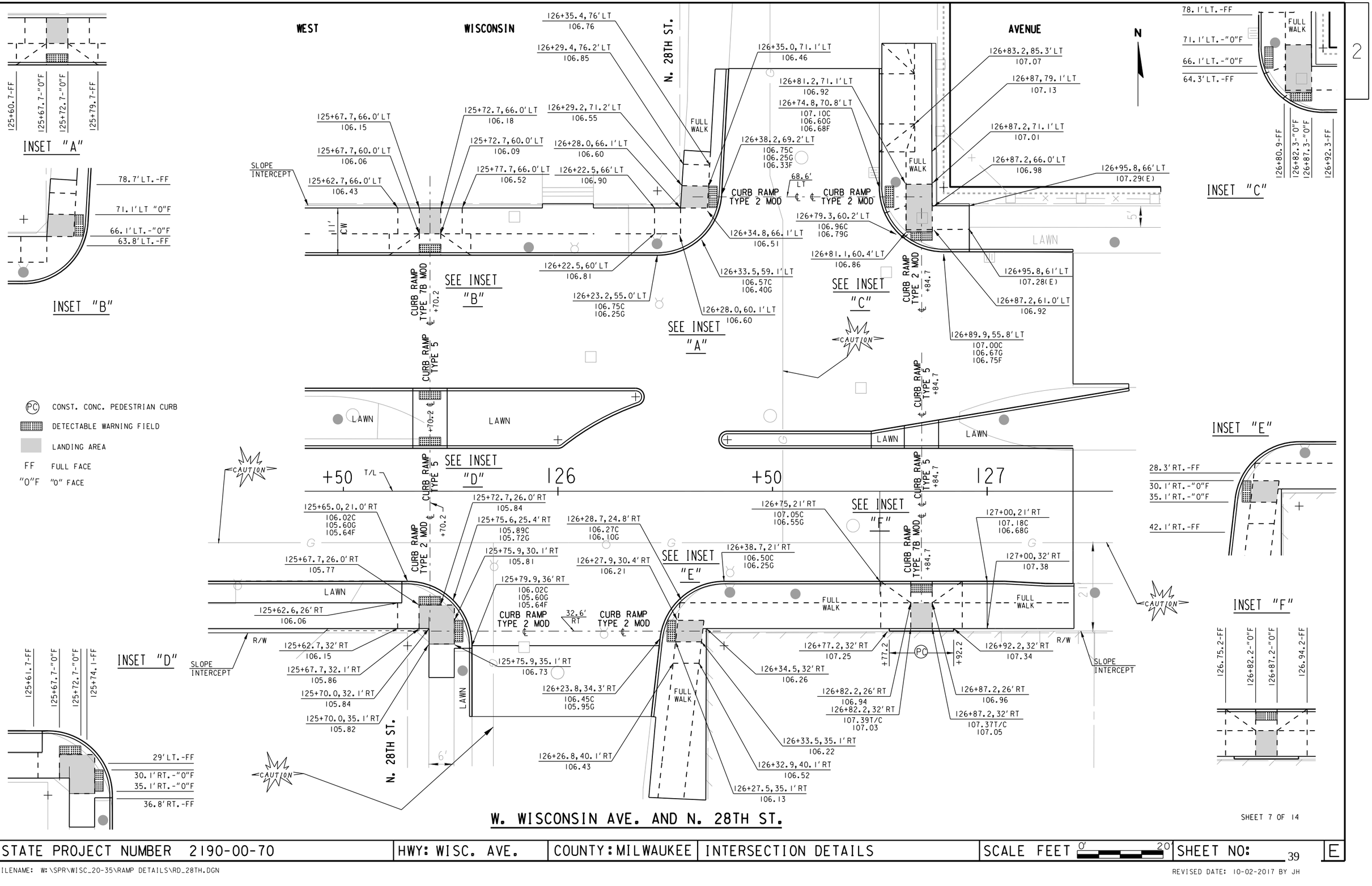
W. WISCONSIN AVE. AND N. 29TH ST.

SHEET 5 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 38	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_29TH.DGN

REVISED DATE: 10-3-2017 BY DB



(PC) CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

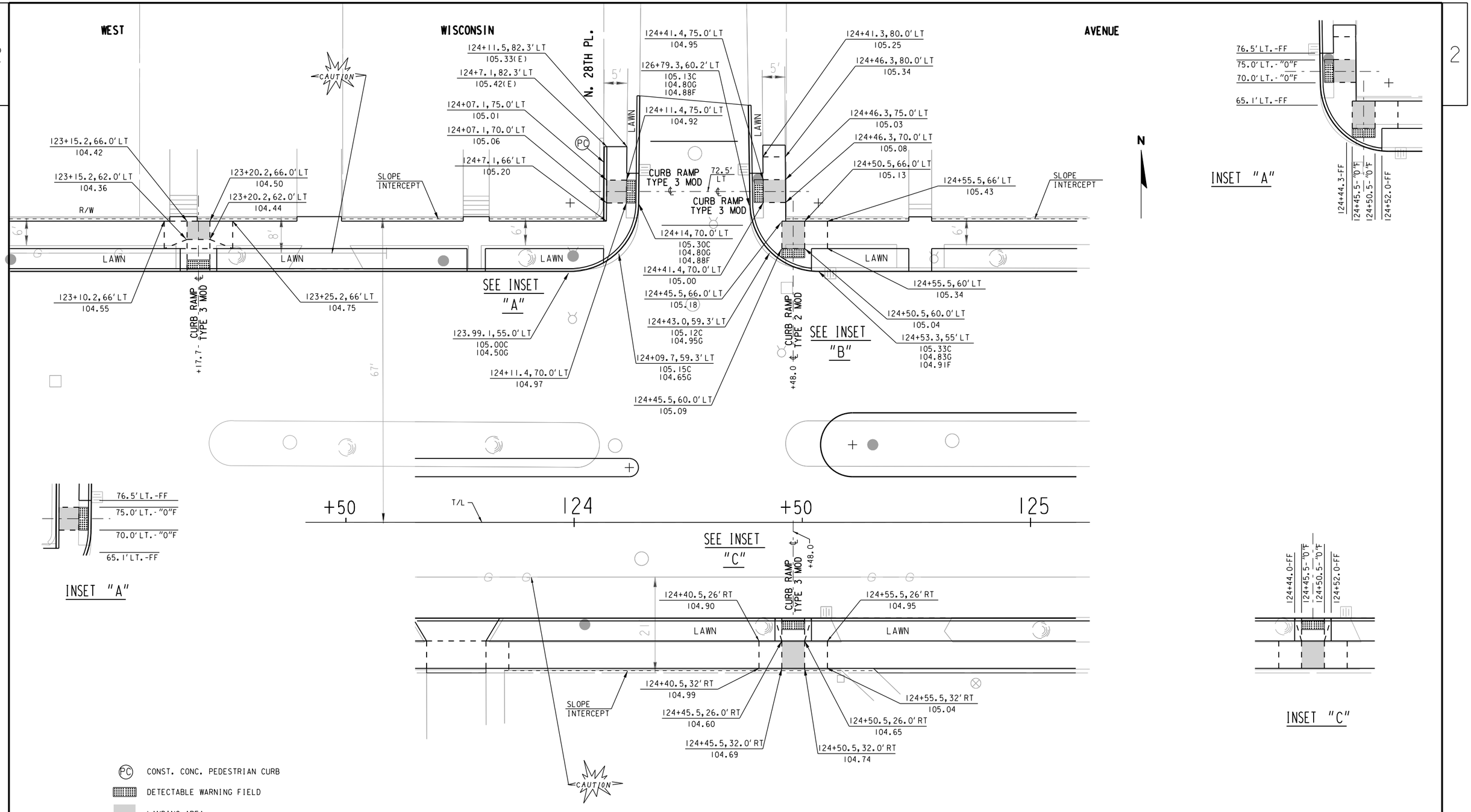
W. WISCONSIN AVE. AND N. 28TH ST.

SHEET 7 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 39	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_28TH.DGN

REVISED DATE: 10-02-2017 BY JH



W. WISCONSIN AVE. AND N. 28TH PL.

SHEET 6 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 40	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_28TH PL.DGN

REVISED DATE: 10-26-2017 BY ML

2

WEST WISCONSIN AVENUE

N

CAUTION

R/W

20'

67'

G

6'

LAWN

134+8,71'LT
118.27

134+2,66'LT
117.88

134+8,66'LT
117.97

134+13,66'LT
118.27

133+95.5,70'LT
118.10C
117.60G
117.68F

134+8,60'LT
118.03

SLOPE INTERCEPT

63.5' LT ℄ CURB RAMP TYPE 2 MOD

134+18,66'LT
118.67

133+99.9,59.4'LT
117.92C
117.75G

134+2,60'LT
117.94

SEE INSET "B"

CURB RAMP TYPE 2 MOD +5.5 ℄

134+18,60'LT
118.58

134+10.5,55'LT
118.23C
117.90G
117.98F

INSET "B"

67.5'LT.-FF
66.0'LT.-"0"F
61.0'LT.-"0"F
59.6'LT.-FF

134+01.6-FF
134+03.0-"0"F
134+08.0-"0"F
134+13.0-FF

DETECTABLE WARNING FIELD
LANDING AREA
FF FULL FACE
"0"F "0" FACE

133 +50 134 +50

T/L

SEE INSET "A"

SEE INSET "C"

133+39,21.5'RT
116.05C
115.55G
115.63F

133+39,27'RT
115.85

133+45.5,27'RT
115.83

133+49.1,25.5'RT
115.87C
115.70G

133+95,26'RT
116.65

133+94,25'RT
116.64C
116.47

134+1,26'RT
116.69

134+3,21.1'RT
116.85C
116.60G
116.68F

134+8,26'RT
116.74

CURB RAMP TYPE 2 MOD -43.0 ℄

CURB RAMP TYPE 2 MOD +5.5 ℄

29.5' RT

CURB RAMP TYPE 2 MOD ℄ ℄ CURB RAMP TYPE 2 MOD

33'

R/W

LAWN

133+54,36.8'RT
115.80C
115.55G
115.63F

133+89.2,36.1'RT
116.85C
116.35G
116.43F

134+17,26'RT
117.42

SLOPE INTERCEPT

134+8,32'RT
116.80

134+1,32'RT
116.69

134+0.7,37.3'RT
117.03

133+94.7,37'RT
116.94

133+40.5,32'RT
115.93

133+45.5,32'RT
115.85

133+95,32'RT
116.59

CAUTION

N. 26TH ST.

INSET "A"

133+38.5-FF
133+40.5-"0"F
133+45.5-"0"F
133+47.0-FF

25.7'RT.-FF
27.0'RT.-"0"F
32.0'RT.-"0"F
34.0'RT-FF

INSET "C"

134+01.6-FF
134+03.0-"0"F
134+08.0-"0"F
134+13.0-FF

25.2'RT.-FF
27.0'RT.-"0"F
32.0'RT.-"0"F
39.0'RT.-FF

W. WISCONSIN AVE. AND N. 26TH ST.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20	SHEET NO: 41	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_26TH.DGN

REVISED DATE: 09-27-2017 BY PN

W. WISCONSIN AVE. AND N. 25TH ST.

WEST WISCONSIN AVENUE

INSET "A"

137+02.3-FF
137+08.3-"0"F
137+13.3-"0"F
137+14.7-FF
73.0'LT.-FF
67.0'LT.-"0"F
62.0'LT.-"0"F
60.6'LT.-FF
LAWN
SLOPE INTERCEPT
R/W
22
67'

137+17.1,77'LT 123.37
137+11.1,77'LT 123.45
137+11,67'LT 122.95
137+11,66'LT 123.30TC 122.94
137+8.3,66'LT 122.90
136+98.0,66'LT 123.12
137+8.3,60'LT 122.81
137+7.4,55'LT 123.01C 122.65G 122.63F

CAUTION

SEE INSET "A"

CURB RAMP TYPE 2 MOD
+10.8

137+54.4,70.1'LT 123.65C 123.15G 123.23F
137+17,67'LT 122.89
137+22.4,69.9'LT 123.31C 122.89G 122.93F
64.5' LT
CURB RAMP TYPE 2 MOD
137+17,62'LT 122.85
137+18,59.4'LT 122.91C 122.74G
137+13.3,60'LT 122.85
137+60,62'LT 123.40
137+58.8,59.4'LT 123.45C 123.28G

CAUTION

SEE INSET "B"

SEE INSET "D"

CURB RAMP TYPE 2 MOD
+65.3

137+59.7,71'LT 123.67
137+60,67'LT 123.37
137+65.6,71'LT 123.76
137+66,67'LT 123.46
137+66,66'LT 123.90TC 123.46
137+67.8,66'LT 123.48
137+76,66'LT 124.05
SLOPE INTERCEPT
R/W
LAWN
137+76,60'LT 123.99
137+67.8,60'LT 123.45
137+69.4,55'LT 123.90C 123.40G 123.48F
137+62.8,60'LT 123.40

N

68.5'LT.-FF
67.0'LT.-"0"F
62.0'LT.-"0"F
60.6'LT.-FF
137+61.4-FF
137+62.8-"0"F
137+67.8-"0"F
137+74.8-FF

INSET "C"

PC CONST. CONC. PEDESTRIAN CURB
DETECTABLE WARNING FIELD
LANDING AREA
FF FULL FACE
"0"F "0" FACE

136 +50 T/L 137 +50 138 +50

137+6.3,21'RT 121.51C 121.26G 121.30F
137+ 8.3, 26'RT 121.45
137+3.3,26'RT 121.53
137+12.0,22.1'RT 121.47C 121.30G
137+14.3, 26'RT 121.36
137+15.8,24.4'RT 121.37C 121.20G
29.0' RT
137+61.3,26'RT 121.78
137+59.6,25.4'RT 121.87C 121.70G
137+ 69.8, 21'RT 122.08C 121.83G 121.87F
137+67.8,26'RT 121.87
137+72.8,26'RT 122.07
LAWN
CURB RAMP TYPE 2 MOD
CURB RAMP TYPE 2 MOD
N. 25TH ST.
33'
6'
5'

CAUTION

INSET "B"

137+04.3-FF
137+08.3-"0"F
137+13.3-"0"F
137+14.7-FF
25.1'RT.-FF
26.5'RT.-"0"F
31.5'RT.-"0"F
33.0'RT.-FF
LAWN

SLOPE INTERCEPT
R/W

137+3.3,32'RT 121.59
137+ 8.3, 32'RT 121.51TC 121.36
137+8.3,37'RT 121.24
137+14.3,37'RT 121.17
137+ 14.3, 32'RT 121.27
137+21.3,36.1'RT 121.35C 120.90G 120.94F
137+55.3,36'RT 121.64C 121.39G 121.43F
137+61.3,32'RT 121.69
137+61.3,37'RT 121.49
137+72.8,32'RT 122.13
137+67.8,32'RT 122.20TC 121.78
137+67.3,37'RT 121.58
137+67.3,42'RT 121.38
137+61.3,42'RT 121.29

INSET "D"

137+61.4-FF
137+62.8-"0"F
137+67.8-"0"F
137+71.8-FF
25.1'RT.-FF
26.5'RT.-"0"F
31.5'RT.-"0"F
35.5'RT.-FF

SHEET 9 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 42	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_25TH.DGN

REVISED DATE: 09-27-2017 BY PN

W. WISCONSIN AVE. AND N. 24TH ST.

WEST WISCONSIN AVENUE

N

INSET "A"

INSET "B"

INSET "C"

INSET "D"

78.5' LT. -FF
71.5' LT. - "0"F
66.5' LT. - "0"F
65.1' LT. -FF
142+56.1-FF
142+57.8-"0"F
142+62.8-"0"F
142+64.2-FF
142+50.8-FF
31.9' RT. -FF
33.6' RT. - "0"F
38.6' RT. - "0"F
45.6' RT. -FF
142+12.1-FF
143+13.5-"0"F
143+18.5-"0"F
143+22.5-FF
143+25.5-FF

CAUTION

SLOPE INTERCEPT

FULL WALK

R/W

LAWN

CURB RAMP TYPE 2 MOD

SEE INSET "A"

SEE INSET "B"

SEE INSET "C"

SEE INSET "D"

PC

CW

142+65.3, 71.5' LT
129.62

142+59.3, 71.5' LT
129.71

142+59.3, 66' LT
130.10TC
129.71

142+57.8, 66' LT
129.71

142+50, 66' LT
130.13

142+55.3, 55' LT
129.90C
129.40G
129.52F

142+57.8, 60' LT
129.62

142+70.3, 69.8' LT
129.90C
129.40G
129.48F

143+6.2, 70.2' LT
129.90C
129.40G
129.48F

69.0' LT

142+65.3, 66.6' LT
129.65

143+9.3, 66.5' LT
129.61

142+65.9, 59.3' LT
129.72C
129.55G

143+10.5, 59.5' LT
129.72C
129.55G

142+62.8, 60' LT
129.65

143+13.5, 60' LT
129.62

143+9.3, 71.5' LT
129.54

143+15.3, 76.5' LT
129.93

143+15.3, 71.5' LT
129.63

143+15.3, 66' LT
130.00TC
129.70

143+18.5, 66' LT
129.70

143+23.5, 66' LT
130.00

143+21.3, 55' LT
129.92C
129.42G
129.50F

143+18.5, 60' LT
129.62

142+55, 21' RT
129.50C
129.00G
129.08F

142+57.8, 26' RT
129.05

142+57.8, 32' RT
128.96

142+47.8, 26' RT
129.56

142+47.8, 32' RT
129.65

142+61.5, 32' RT
129.27TC
128.94

142+61.5, 38.6' RT
128.88

142+67.5, 38.6' RT
128.79

142+61.3, 43.6' RT
129.00

142+62.8, 26' RT
128.98

142+65.6, 25.4' RT
129.32C
129.15G

142+67.5, 33.6' RT
128.85

142+70, 36' RT
129.20C
128.70G
128.78F

142+67.3, 43.6' RT
128.91

143+13.5, 26' RT
129.32

143+9.7, 26' RT
129.37C
129.20G

143+9.8, 33.6' RT
129.15

36.1' RT

143+5.9, 36' RT
129.50C
129.00G
129.08F

143+9.8, 38.6' RT
129.07

143+20.9, 21' RT
129.55C
129.30G
129.38F

143+18.5, 26' RT
129.39

143+18.5, 32' RT
129.30

143+28.5, 26' RT
129.81

143+28.5, 32.0' RT
129.90

143+15.8, 32' RT
129.70TC
129.26

143+15.8, 38.6' RT
129.16

143+15.6, 43.6' RT
129.20

N. 24TH ST.

+50 142 +50 143 +50 144

T/L

67'

33'

6'

+60.3

+16.0

(PC) CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

SHEET 10 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 43	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_24TH.DGN

REVISED DATE: 09-27-2017 BY PN

W. WISCONSIN AVE. AND N. 23RD ST.

WEST WISCONSIN AVENUE

N

INSET "A"

75.4' LT.-FF
72.4' LT.-"0"F
67.4' LT.-"0"F
66.0' LT.-FF
146+01.2-FF
146+08.2-"0"F
146+13.2-"0"F
146+14.6-FF

INSET "C"

77.4' LT.-FF
72.4' LT.-"0"F
67.4' LT.-"0"F
66.0' LT.-FF
147+62.0-FF
147+63.3-"0"F
147+68.3-"0"F
147+75.3-FF

INSET "B"

33.5' RT.-FF
36.0' RT.-"0"F
41.0' RT.-"0"F
48.0' RT.-FF
146+02.2-FF
146+08.2-"0"F
146+13.2-"0"F
146+14.6-FF

INSET "D"

32.4' RT.-FF
36.0' RT.-"0"F
41.0' RT.-"0"F
46.0' RT.-FF
147+62.0-FF
147+63.3-"0"F
147+68.3-"0"F
147+73.3-FF

CAUTION

SLOPE INTERCEPT

R/W

LAWN

CRUSHED STONE

CURB RAMP TYPE 2 MOD

69.9' LT

38.5' RT

+10.7 ℄

+65.8 ℄

SEE INSET "A"

SEE INSET "B"

SEE INSET "C"

SEE INSET "D"

FULL WALK

146+00,66' LT
128.09

146+5.3,55' LT
127.90C
127.40G
127.48F

146+8.2,60' LT
127.48

146+10.2,72.4' LT
127.42

146+10.2,66' LT
127.51

146+8.2,66' LT
127.54

146+16.2,72.4' LT
127.33

146+20.3,70' LT
127.37C
127.20G
127.28F

146+56.1,70' LT
127.38C
127.05G
127.13F

146+59.2,67.4' LT
127.24

146+16.2,67.4' LT
127.42

146+60.5,59.5' LT
127.37C
127.20G

146+15.9,59.3' LT
127.47C
127.30G

146+63.3,60' LT
127.30

146+13.2,60' LT
127.48

146+59.2,72.4' LT
127.15

146+65.2,77.4' LT
127.54

146+65.2,72.4' LT
127.24

146+65.2,66' LT
127.75TC
127.33

146+68.3,66' LT
127.35

146+73.3,66' LT
127.60

146+71.1,55' LT
127.47C
127.05G
127.13F

146+68.3,60' LT
127.26

146+5.5,21' RT
127.86C
127.44G
127.48F

146+8.2,26' RT
127.45

146+8.2,32' RT
127.52

146+13.2,26' RT
127.45

146+16.1,25.5' RT
127.49C
127.32G

146+63.3,26' RT
127.24

146+60.4,25.4' RT
127.40C
127.23G

146+71,21' RT
127.46C
127.13G
127.17F

146+68.3,26' RT
127.30

146+68.3,32' RT
127.36

146+75,32' RT
127.78

146+00,32' RT
128.05

146+10.4,32' RT
127.49

146+10.4,41' RT
127.35

146+16.4,41' RT
127.26

146+16.4,32' RT
127.40

146+16.4,36.1' RT
127.34

146+58.7,32' RT
127.23

146+58.7,36' RT
127.17

146+20.5,36.2' RT
127.35C
127.10G
127.18F

146+56,35.9' RT
127.30C
127.05G
127.13F

146+63.7,32' RT
127.30

146+63.6,36' RT
127.24

146+63.7,41' RT
127.16

146+58.7,41' RT
127.09

146+63.6,46' RT
127.25

N. 23RD ST.

(PC) CONST. CONC. PEDESTRIAN CURB
DETECTABLE WARNING FIELD
LANDING AREA
FF FULL FACE
"0"F "0" FACE

SHEET 11 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 44	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_23RD.DGN

REVISED DATE: 09-27-2017 BY PN

W. WISCONSIN AVE. AND N. 22ND ST.

WEST WISCONSIN AVENUE

N. 22ND ST.

CAUTION

CAUTION

CAUTION

CAUTION

INSET "A"

INSET "B"

INSET "C"

SEE INSET "A"

SEE INSET "B"

SEE INSET "C"

71.3' LT. - FF

66.3' LT. - "0"F

61.3' LT. - "0"F

60.0' LT. - FF

148+93.7 - FF

149+00.7 - "0"F

149+05.7 - "0"F

149+07.0 - FF

149+12.7 - FF

149+43.7 - FF

149+50.7 - "0"F

149+55.7 - "0"F

149+62.7 - FF

149+49.4 - FF

149+50.7 - "0"F

149+55.7 - "0"F

149+60.7 - FF

148+96.3, 66' LT
125.51

149+0.7, 66.6' LT
125.50TC

149+0.7, 66' LT
125.25

149+1.3, 71' LT
125.49

149+7.1, 71' LT
125.40

149+7.2, 66.3' LT
125.16

149+12.9, 69.8' LT
125.28C
124.95G
124.99F

149+50, 66.3' LT
124.90

149+43.4, 69.9' LT
124.92C
124.60G
124.64F

149+50, 71' LT
125.08

149+56, 71' LT
125.17

149+56, 66' LT
124.99

149+61, 66' LT
125.22

149+50, 61.3' LT
124.84

149+61, 60' LT
125.17

149+7.2, 61' LT
125.20

149+47.9, 59.4' LT
124.97C
124.80G

149+56, 60' LT
124.93

149+58.4, 55' LT
125.13C
124.80G
124.88F

149+51, 60' LT
124.84

148+96.3, 60' LT
125.51

149+0.7, 60' LT
125.34

148+97.9, 55' LT
125.67C
125.25G
125.33F

149+8.4, 59.3' LT
125.27C
125.10G

149+33.2, 56.0' LT
125.02C
124.85G

149+5.7, 60' LT
125.25

149+50, 21' RT
125.50C
125.00G
125.08F

148+100, 21' RT
126.05C
125.55G
125.63F

149+0.7, 26' RT
125.85

149+5.7, 26' RT
125.74

149+45.7, 26' RT
125.76

149+50.7, 28' RT
125.44

149+55.7, 28' RT
125.40

149+60.7, 32' RT
125.72

149+10.7, 32' RT
126.22

148+95.7, 32' RT
126.28

149+0.7, 32' RT
126.26 T/C
125.94

149+5.7, 32' RT
126.24 T/C
125.88

149+50.7, 32' RT
125.80 T/C
125.50

149+55.7, 32' RT
125.76 T/C
125.46

CURB RAMP TYPE 2 MOD

CURB RAMP TYPE 7A MOD

℄ + 3.2

℄ + 53.2

63.8' LT

+ 95.7

+ 10.7

+ 46.55

+ 60.7

LAWN

R/W

SLOPE INTERCEPT

T/L

148 +50 149 +50 150 +50

67'

33'

N

(PC) CONST. CONC. PEDESTRIAN CURB

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

SHEET 12 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 45	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_22ND.DGN

REVISED DATE: 09-27-2017 BY PN

WEST

WISCONSIN AVENUE

N. 21ST ST.

N

77.7' LT.-FF
73.7' LT.-"0"F
68.7' LT.-"0"F
67.0' LT.-FF

INSET "A"

151+93.0-FF
151+98.0-"0"F
152+03.0-"0"F
152+04.4-FF

SLOPE INTERCEPT

R/W

151+99, 73.7' LT
123.25

151+99, 66' LT
123.36

151+93, 66' LT
123.64

151+88, 66' LT
123.91

6'

WALK

LAWN

152+5, 73.7' LT
123.16

152+10.1, 69.9' LT
123.19C
122.92G
122.98F

152+48.2, 70.1' LT
123.03C
122.70G
122.78F

FULL CW

CURB RAMP TYPE 2 MOD

71.2' LT

CURB RAMP TYPE 2 MOD

152+51, 73.7' LT
122.84

152+57, 73.7' LT
122.93

152+57, 68.7' LT
123.00

152+57, 66' LT
123.15

152+62, 66' LT
123.45

152+51, 68.7' LT
122.91

152+51, 66.0' LT
123.06

152+5, 66' LT
123.27

152+5.7, 59.4' LT
123.27C
123.10G

152+52.6, 59.4' LT
123.18C
122.85G

151+88, 60' LT
123.82

151+93, 60' LT
123.56

151+98, 60' LT
123.30

151+95.1, 55' LT
123.61C
123.24G
123.32F

CURB RAMP TYPE 2 MOD

SEE INSET "A"

SEE INSET "C"

152+3, 60' LT
123.22

152+62, 60' LT
123.36

152+63.2, 55' LT
123.20C
122.70G
122.78F

152+57, 60' LT
123.24

78.7' LT.-FF
73.7' LT.-"0"F
68.7' LT.-"0"F
66.7' LT.-FF

INSET "C"

SLOPE INTERCEPT

R/W

67'

CAUTION

152+0.5, 21' RT
124.10C
123.60G
123.68F

SEE INSET "B"

151 +50 152 +50 153 +50

T/L

151+98, 28' RT
124.10

151+93, 26' RT
124.32

CURB RAMP TYPE 7B MOD

152+3, 28' RT
124.07

152+8, 26' RT
124.22

LAWN

LAWN

G

14'

5'

33'

R/W

R/W

SLOPE INTERCEPT

151+93, 32' RT
124.40

151+98, 32' RT
124.16

152+8, 32' RT
124.30

152+3, 32' RT
124.13

INSET "B"

151+91.0-FF
151+98.0-"0"F
152+03.0-"0"F
152+10.0-FF

CAUTION

CAUTION

DETECTABLE WARNING FIELD

LANDING AREA

FF FULL FACE

"0"F "0" FACE

W. WISCONSIN AVE. AND N. 21ST ST.

SHEET 13 OF 14

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 46	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_21ST.DGN

REVISED DATE: 09-27-2017 BY PN

2

N

WEST WISCONSIN AVENUE

156+3.7, 66' LT
115.19

155+98.7, 66' LT
115.67TC
115.26

155+85.7, 66' LT
116.15

156+8.7, 66' LT
115.30

156+50, 66.4' LT
113.95TC
113.47

156+4 .7, 66' LT
114.20

156+57.7, 66' LT
113.39

156+62.7, 66' LT
113.60

SLOPE INTERCEPT

ASPH

R/W

LAWN

LAWN

FULL CW

16'

155+98.7, 60' LT
115.19

156+1.2, 55' LT
115.35C
114.85G
114.93F

CURB RAMP TYPE 7M
+01.2 ℄

156+3.7, 60' LT
115.12

SEE INSET "A"

156+50.0, 55' LT
113.70C
113.20G

156+52.7, 60' LT
113.39

CURB RAMP TYPE 7M
+55.2 ℄

156+62.2, 55' LT
113.40C
112.90G

156+57.7, 60' LT
113.31

INSET "A"

155+91.7-FF
155+98.7-"0"F
156+03.7-"0"F
156+10.7-FF
156+45.7-FF
156+52.7-"0"F
156+57.7-"0"F
156+64.7-FF

R/W

CAUTION

END PROJECT
STA.156 + 80.00 T/L

67'

155 +50 T/L 156 +50 157

SEE INSET "B"

155+95.9, 21' RT
114.00C
113.75G
113.83F

155+83.7, 26' RT
114.67

155+98.7, 26' RT
113.76

CURB RAMP TYPE 2
+01.2 ℄

156+3.7, 26' RT
113.68

156+6.3, 25.5' RT
113.72C
113.55G

156+8.2, 36' RT
113.49

156+52.7, 28' RT
112.40

156+51.1, 26.6' RT
112.46C
112.29G

156+50, 36' RT
112.33

CURB RAMP TYPE 2
+55.2 ℄

SEE INSET "C"

156+57.7, 28' RT
112.40

156+61.7, 22.2' RT
112.39C
112.14G
112.18F

156+57.7, 33' RT
112.47

156+81.5, 22.7' RT
11.80C(E)

156+69.5, 32' RT
112.37

33'

LAWN

FULL WALK

R/W

SLOPE INTERCEPT

CAUTION

155+83.7, 32' RT
114.76

155+98.7, 32' RT
113.69

156+2.2, 32' RT
113.64

156+2.2, 36' RT
113.58

156+2.2, 41' RT
113.50

156+2.2, 49' RT
113.75

156+8.2, 41' RT
113.41

CURB RAMP TYPE 2 ℄ CURB RAMP TYPE 2

38.5' RT

156+10.7, 36' RT
113.60C
113.35G
113.43F

FULL WALK

156+46.7, 37.2' RT
112.39C
112.14G
112.18F

156+47.7, 41' RT
112.32C
112.07G
112.11F

N. 20TH ST.

156+56, 33' RT
112.47

156+56, 41' RT
112.34

156+50, 41' RT
112.25

156+55.9, 49' RT
112.45

156+47.7, 49' RT
112.20C
111.70G

R/W

CAUTION

INSET "B"

155+94.7-FF
155+98.7-"0"F
156+03.7-"0"F
156+05.1-FF

32.0' RT.-FF
36.0' RT.-"0"F
41.0' RT.-"0"F
45.0' RT.-FF

INSET "C"

156+51.3-FF
156+52.7-"0"F
156+57.7-"0"F
156+61.7-FF

32.0' RT.-FF
36.0' RT.-"0"F
41.0' RT.-"0"F
45.0' RT.-FF

(PC) CONST. CONC. PEDESTRIAN CURB
DETECTABLE WARNING FIELD
LANDING AREA
FF FULL FACE
"0"F "0" FACE

W. WISCONSIN AVE. AND N. 20TH ST.

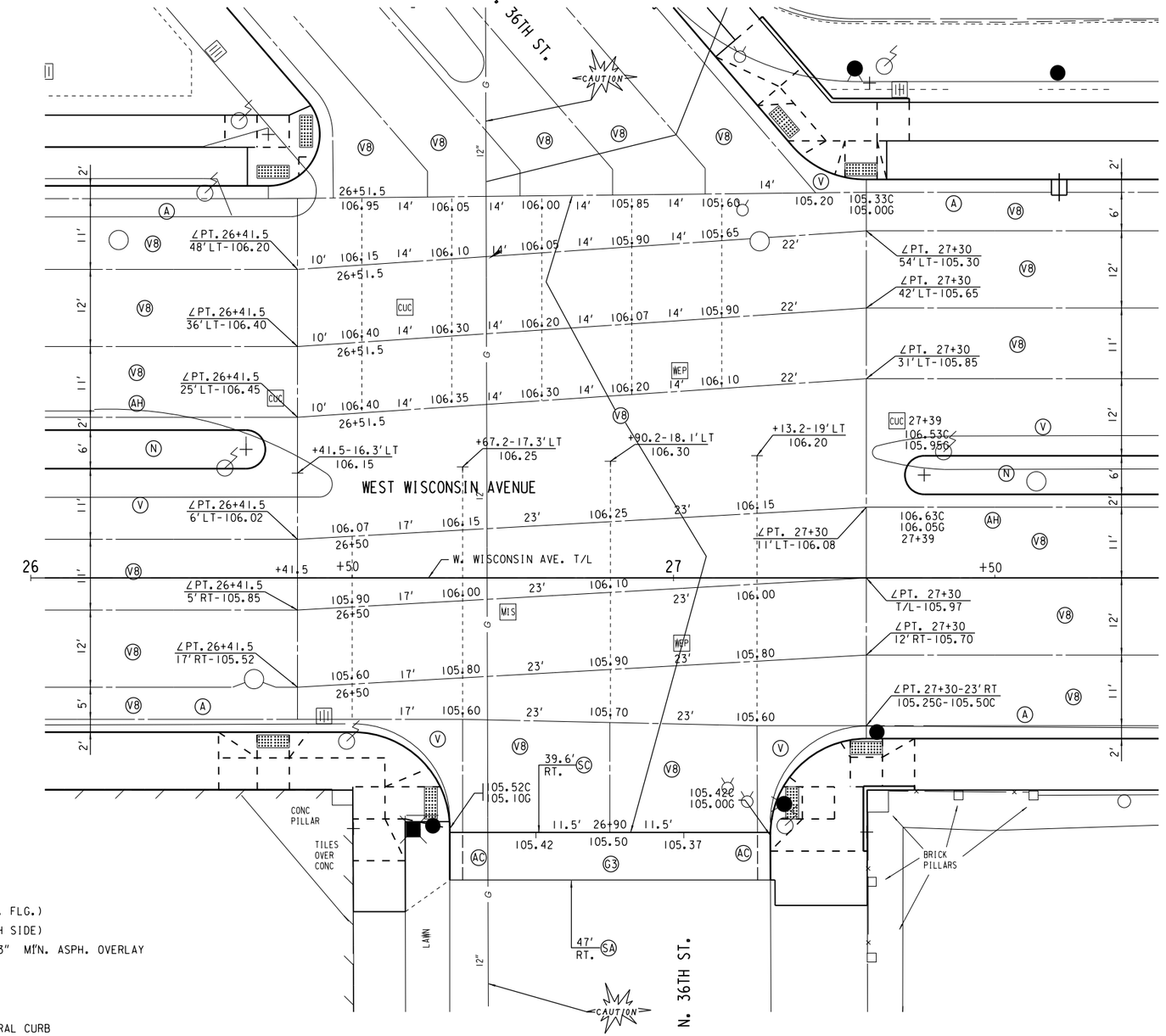
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SCALE FEET 0' 20'	SHEET NO: 47	E

FILENAME: W:\SPR\WISC_20-35\RAMP DETAILS\RD_20TH.DGN

REVISED DATE: 09-27-2017 BY PN

2

N



(A) CONST. CONC. CURB & GUTTER 31-INCH
(AC) CONST. CONC. CURB & GUTTER 31-INCH (COV. FLG.)
(AH) CONST. CONC. CURB & GUTTER 31-INCH (HIGH SIDE)
(G3) REMOVE ASPHALT PARTIAL DEPTH TO OBTAIN 3" MI'N. ASPH. OVERLAY
(N) CONST. 5" CONC. SIDEWALK
(SA) SAWING ASPHALT
(SC) SAWING CONCRETE
(V) CONST. 8-INCH CONC. PAVEMENT WITH INTEGRAL CURB
(V8) CONST. 8" CONCRETE PAVEMENT
(Y) CONST. SNOWPLOWABLE MEDIAN ISLAND NOSE

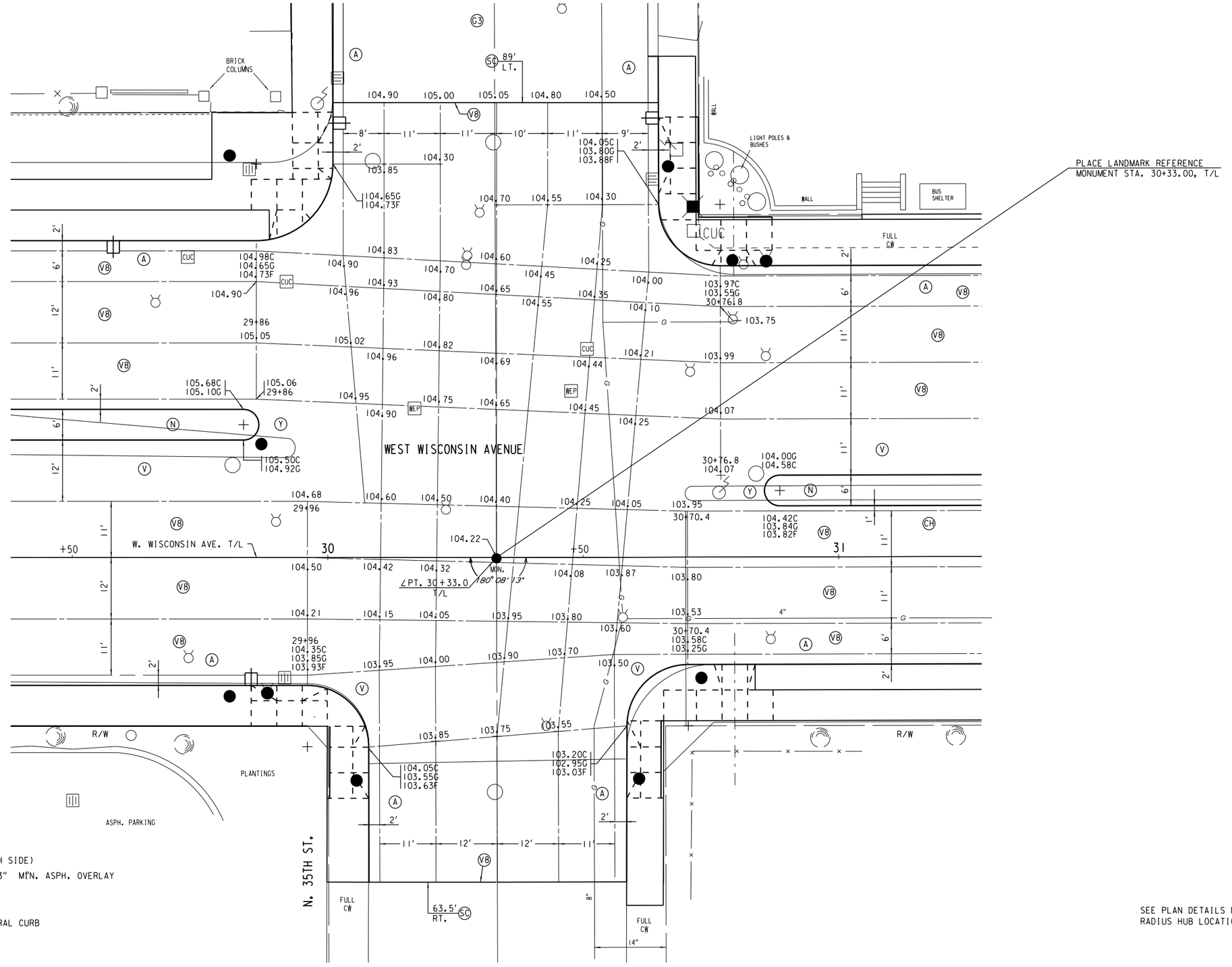
SEE PLAN DETAILS FOR
RADIUS HUB LOCATIONS

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CONSTRUCTION PLAN	SCALE FEET	SHEET NO: 48	E

FILENAME: W:\SPR\WISC_38-20COMBINED\CONDET.DGN

REVISED DATE: 07-14-2017 BY JH

2



(A) CONST. CONC. CURB & GUTTER 31-INCH
(CH) CONST. CONC. CURB & GUTTER 19-INCH (HIGH SIDE)
(G3) REMOVE ASPHALT PARTIAL DEPTH TO OBTAIN 3" MI'N. ASPH. OVERLAY
(N) CONST. 5" CONC. SIDEWALK
(SC) SAWING CONCRETE
(V) CONST. 8-INCH CONC. PAVEMENT WITH INTEGRAL CURB
(V8) CONST. 8" CONCRETE PAVEMENT
(Y) CONST. SNOWPLOWABLE MEDIAN ISLAND NOSE

SEE PLAN DETAILS FOR RADIUS HUB LOCATIONS

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CONSTRUCTION PLAN	SCALE FEET	SHEET NO: 49	E

2

2

B.M. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3846
STA. 18+19 - 61' LT.
ELEV. 95.60

#3846 | #3820 | #3808 | #3742

WEST WISCONSIN AVENUE

N

BEGIN PROJECT
STA. 17+23.30 T/L

2

∠PT. +00.0
53.0' LT.

∠PT. +00.0
41.0' LT.

∠PT. +00.0
30.0' LT.

∠PT. +00.0
19.0' LT.

∠PT. +00.0
07.0' LT.

FULL CW W/INT C&G (BRIDGE DECK)

BRIDGE EXPANSION JOINT

ENT

CUC

CONC.

ASPH.

RR TIE BORDER

TEL

NO CURB

CONC PARAPET WALL

12' 6' 11' 11' 12' 5'

57'

N. 89° 01' 02" E.

17 +50 18 +50 19 +50 20 +50 21 +50 22

T/L

0.4 OVERHANG 0.3 OVERHANG 0.7 OVERHANG

RR TIES & PLYWOOD WALL

FULL CW W/INT C&G

LAWN

WOOD BOX

WEP

8"

ASPH. PARKING

CTR. 12.0' R=
+00.1-39.6'RT.

CTR. 15.0' R=
+57.3-39.0'RT.

#3801

BUSHES @ HIGH CW

SAP

11"

15"

N. 38TH ST.

B.M. NW BOLT HYD SW CORNER
N. 38TH ST. & W. WISCONSIN AVE.
STA. 21+47 - 35'RT.
ELEV. 96.72

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 50	E

FILENAME: W:\SPR\WISC_38-35\PDET 16_22.DGN

2

N

B.M. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3716
STA. 23+18 - 61' LT.
ELEV. 102.69

#3716 TO 3732

MIDAS
#3706

DEAD END ALLEY

N. 37TH ST.

N. 36TH ST.

MATCH POINT

P.T.
+84.00 - 116.1' LT.

CW-P.T.
+75.0 - 114.0' LT.

CTR. 50.0' R=/68.0' R=
+34.2-115.8' LT.

CW-∠PT. +74.8
66.5' LT.

∠PT. +75.5
59.0' LT.

CW-P.C.
+38.8-73.6' LT.

P.C.
+39.70 - 66.1' LT.

CTR. 02.0' R=
+84.2-21.0' LT.

CTR. 13.5' R=
+15.2-201.7' LT

P.T.
+02.00 - 116.2' LT.

CW-∠PT. +91.1
72.0' LT.

CTR. 08.0' R=
+37.0-69.0' LT.

CW-∠PT. +80.0
22.0' LT.

CTR. 15.0' R=
+30.5-77.0' LT.

CW-∠PT. +86.6
67.0' LT.

CTR. 02.0' R=
+80.0-63.0' LT.

∠PT. +22.0
48.0' LT.

∠PT. +22.0
36.0' LT.

∠PT. +22.0
25.0' LT.

∠PT. +41.5
48.0' LT.

∠PT. +41.5
36.0' LT.

∠PT. +41.5
25.0' LT.

∠PT. +30.0
54.0' LT.

∠PT. +30.0
42.0' LT.

∠PT. +30.0
31.0' LT.

CTR. 03.0' R=
+33.5-20.0' LT.

CTR. 03.0' R=
+39.0-16.0' LT.

∠PT. +40.0
08.0' LT.

∠PT. +12.0
17.0' LT.

∠PT. +41.5
06.0' LT.

∠PT. +41.5
05.0' RT.

∠PT. +41.5
17.0' RT.

∠PT. +30.0
11.0' LT.

∠PT. +30.0
T/L

∠PT. +30.0
12.0' RT.

∠PT. +40.0
06.0' LT.

∠PT. +40.0
05.0' RT.

∠PT. +40.0
17.0' RT.

CTR. 15.0' R=
+50.0-39.0' RT.

CTR. 15.0' R=
+30.0-40.0' RT.

22 +50 23 +50 24 +50 25 +50 26 +50 27 +50 28

1/4 SEC LINE

N.89°01'02"E.

3

CONC TIRE STOPS

DECORATIVE WALL AND STATUETTES

BRICK RET. WALL

FULL CW

LAWN

ASPH. PARKING

CONC PILLAR

BRICK PILLARS

CONC BASE

TILES OVER CONC

WALL

WATER

MULCH

#3601 TO 3711
WISCONSIN KITCHEN MART

B.M. NW BOLT HYD
S/S W. WISCONSIN AVE. @ #3601
STA. 24+72 - 25' RT.
ELEV. 106.93

B.M. NW BOLT HYD SE CORNER
N. 36TH ST. & W. WISCONSIN AVE.
STA. 27+17 - 35' RT.
ELEV. 107.65

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 51	E

FILENAME: W:\SPR\WISC_38-35\PDET 22_28.DGN

REVISED DATE: 07-19-2017 BY DB

2

N

NORTH 37TH STREET

W. WISCONSIN AVE. T/L

WEST WISCONSIN AVENUE

24

25

26

1/4 SEC LINE

CONC

CTR. 2.0' R=
201+63-2.7' RT

CTR. 50.0' R=,
CTR. 68.0' R=
202+16-42.9' LT

#3706 MIDAS

CW-P.T. 40.6' R.
202+14-2.0' LT

CONC TIRE STOPS

40.6' R

50' R

68' R

CTR. 13.5' R=
203+1.5-38.5' RT

DEAD END ALLEY

203+56
25' RT

CTR. 3.0' R=
203+63.2-46.9' RT

END CONSTRUCTION
STA. 204+73.4 T/L

CAUTION

5

204+8.0

204+16.9

204+73.4

306

201 +50 202 +50 203 +50 204 +50 205

VAR.

1'

5'

4'

LAWN

18'

2'

14'

R/W

MATCH POINT

P.T. 68' R.
202+12.8-25.0' RT

P.T. 50.0' R.
202+16.1-7.0' RT

TEL

MEP

148' R

152' R

305

11'

12'

6'

CTR. 2.0' R=
204+10.6-37.7' RT

204+48.1

204+73.1

10"

7"

12"

DECORATIVE WALL AND STATUETTES

CW

CUC

CURB

304

GRAVEL

ASPH.

NORTH 36TH STREET

LEGEND

CONSTRUCTION PERMIT OBTAINED

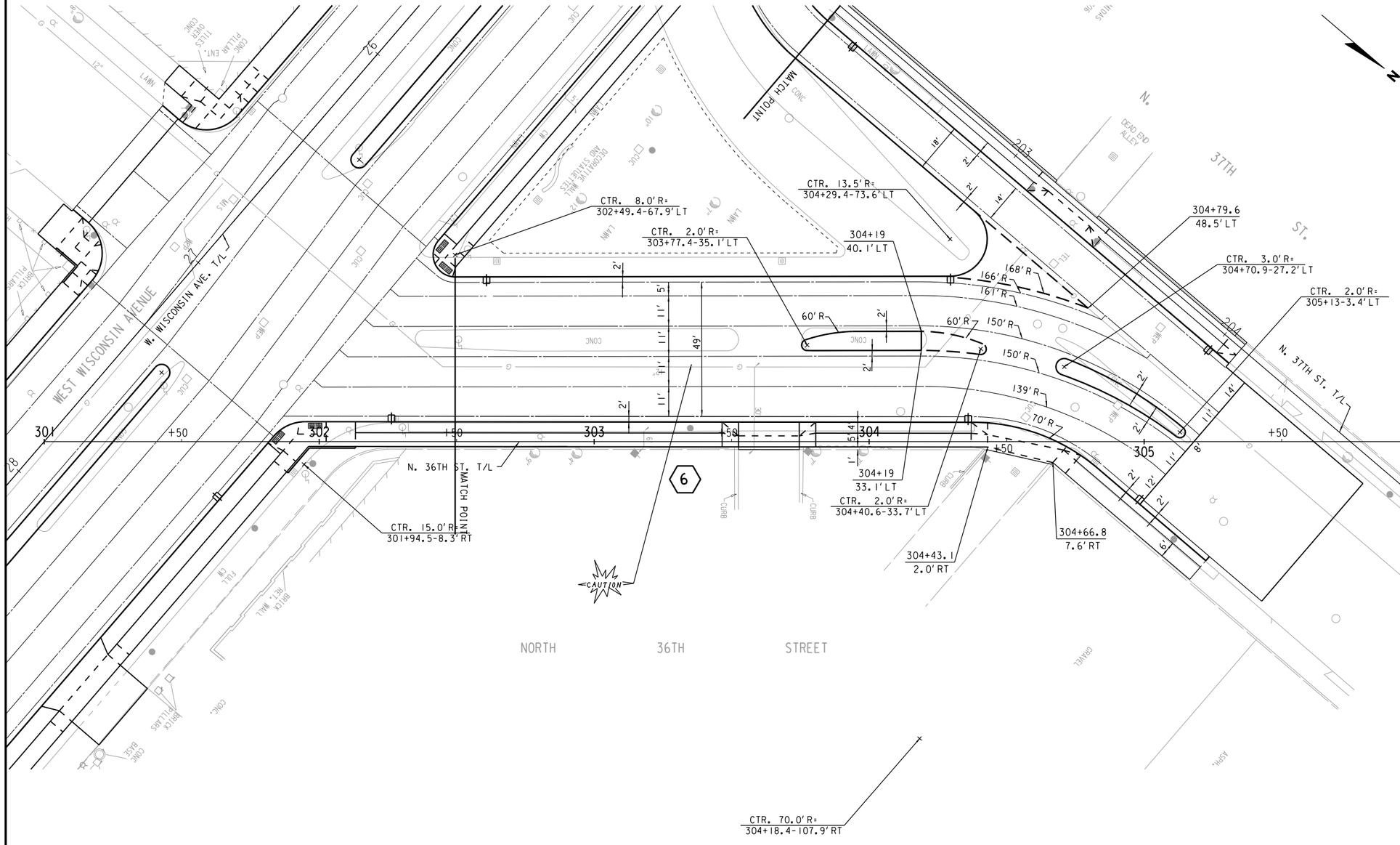
HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 30'	SHEET NO: 52	E

FILENAME: W:\SPR\WISC_38-35\PDET200_206.DGN

REVISED DATE: 07-19-2017 BY SB

2



STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 53	E

FILENAME: W:\SPR\WISC_38-35\PDET300_306.DGN

REVISED DATE: 07-20-2017 BY SB

WEST WISCONSIN AVENUE

WALGREENS #3522 | TROOP CAFE #3430 | HOUSE #3424 | RANDOLPH GRAND MANOR #3414 | OFFICE BLDG. #3400

END PROJECT 2190-00-71
STA. 32 + 63.50

BEGIN PROJECT 2190-00-70
STA.105 + 63.50

PLACE LANDMARK REFERENCE MONUMENT STA. 30+33.00, T/L

CTR. 15.0' R= +86.0-77.0'LT.

CTR. 12.0' R= +77.0-69.0'LT.

CTR. 03.0' R= +83.5-26.0'RT.

CTR. 03.0' R= +88.5-13.0'LT.

CTR. 12.0' R= +96.0-37.0'RT.

CTR. 12.0' R= +70.0-33.0'RT.

N. 35TH ST.

CONC. | BRICK PILLARS | CONC BASE | BRICK WALL | BRICK COLUMNS | ASPH. PARKING | R/W | FULL CW | CUC | WEP | WAT | CONC | DRAIN | CURB | CONC PILLARS | PLANTING | GRAVEL | LIGHT POLES & BUSES | BUS SHELTER | ASPH DWY | GROUND | 4CR | 5CR | 6CR | BUSHES @ HIGH CW | LAWN | CURB | ASPH | TEL | G | MON.

∠PT. +86.0 54.0' LT.
∠PT. +86.0 42.0' LT.
∠PT. +86.0 31.0' LT.
∠PT. +91.5 29.0' LT.
∠PT. +91.5 23.0' LT.
∠PT. +31.5 19.0' LT.
∠PT. +31.5 13.0' LT.
∠PT. +96.0 11.0' LT.
∠PT. +96.0 T/L
∠PT. +96.0 12.0' RT.
∠PT. +33.0 T/L
∠PT. +77.0 49.0' LT.
∠PT. +77.0 38.0' LT.
∠PT. +77.0 27.0' LT.
∠PT. +70.0 09.0' LT.
∠PT. +70.0 02.0' RT.
∠PT. +70.0 19.0' RT.
∠PT. +13.5 57.0' LT.
∠PT. +13.5 49.0' LT.
∠PT. +13.5 38.0' LT.
∠PT. +13.5 27.0' LT.
∠PT. +13.5 16.0' LT.
∠PT. +63.5 55.0' LT.
∠PT. +63.5 47.0' LT.
∠PT. +63.5 36.0' LT.
∠PT. +63.5 25.0' LT.
∠PT. +63.5 24.0' LT.

N. 89° 01' 02"E.
S. 88° 31' 39"E.
S. 89° 30' 01"
N. 88° 53' 05"E.
1/4 SEC LINE

28 | 29 | 30 | 31 | 32 | 33 | 34 | +50

#3501-05-25-35 RETAIL

B.M. NW BOLT HYD SW CORNER
N. 35TH ST. & W. WISCONSIN AVE.
STA. 29+88 - 26'RT.
ELEV. 106.24

BM HYD S/S
STA. 06+22.23'RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

STA. 32 + 63.50 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 105 + 63.50 - W. WISCONSIN AVE. (LOCAL STREET) (2190-00-70)

EQUATION

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 54	E

FILENAME: W:\SPR\WISC_38-35\PDET 28_34.DGN

REVISED DATE: 07-19-2017 BY DB

HOUSE #3424 | P.L. | RANDOLPH GRAND MANOR #3414 | P.L. | OFFICE BLDG. #3400 | HOUSE (LAW OFFICE) #3316 | VACANT #3300 | P.L. | APTS. #3212 | P.L. | HOUSE #3212 | P.L.

WEST AVENUE

WISCONSIN

N. 34TH ST.

N

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA.105+63.50

60'
30'
ASPH
20'
6'
6'

CAUTION

10

CTR. 15.0'R=
+23.0-70.0'LT.

CTR. 15.0'R=
+83.0-70.0'LT.

GROUND 4CR | CONC 6CR | 6CR | DWY (NIU) | 2CR | 3CR | NIU 3CR | 3CR

R/W | R/W | R/W

CUC | CUC | CUC

∠PT.+63.5
55.0' LT.

∠PT.+63.5
36.0' LT.

∠PT.+63.5
25.0' LT.

P.C. 60.0'R.
+85.9-24.0'LT.

P.T. 60.0'R.
+95.6-24.0'LT.

CTR. 2.0 'R=
+15.3-17.0'LT.

∠PT.+63.5
47.0' LT.

CTR. 2.0 'R=
+18.4-12.0'LT.

∠PT.+63.5
24.0' LT.

CTR. 2.0 'R=
+85.7-22.0'LT.

WEP | WEP | CW | PLANTER | SPRINKLER VALVES

T/L +50 106 +50 107 +50 108 +50 109 +50 110 T/L +50 111

1/4 SEC LINE

CTR. 2.0 'R=
+62.5-12.0'LT.

P.C. 60.0'R.
+18.4-10.0'LT.

FULL CW

LAWN | BUSHES @ HIGH CW | R/W | R/W | R/W | LAWN | GRAVEL | LAWN

CURB | ASPH | CW | CW | CW | ASPH | ASPH

9

CAUTION | CAUTION

105+63.5

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

BM HYD S/S
STA. 06+22,23'RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

#3401
MARQUETTE UNIVERSITY HIGH SCHOOL

BM HYD S/S
STA. 10+00,23'RT.(NW BOLT)
ELEV. 101.60

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 55	E

FILE NAME: W:\SPR\WISC_20-35\PDET05-11.DGN

REVISED DATE: 07-19-2017 BY DB

2

HUDSON APTS. #3200

APTS. #3120-3128

AVENUE WEST APTS. #3100

HOUSE #3046

HOUSE #3034

WEST

WISCONSIN

AVENUE

N. 32ND ST.

N. 31ST ST.

N

12

13

CTR. 15.0' R= +85.7-70.0'LT.

FIBER OPTIC

CTR. 15.0' R= +46.2-70.0'LT.

CAUTION

CTR. 15.0' R= +16.1-70.0'LT.

CTR. 15.0' R= +76.2-70.0'LT.

R/W

BUS SHELTER

P.C. 60.0' R= +60.1-24.0'LT.

∠PT. +05.5 14.0' LT.

∠PT. +65.5 24.0' LT.

CTR. 2.0' R= +13.5-22.0'LT.

CTR. 2.0' R= +58.0-12.0'LT.

CTR. 2.0' R= +79.3-22.0'LT.

CTR. 2.0' R= +92.6-12.0'LT.

∠PT. +05.5 10.0' LT.

∠PT. +65.5 20.0' LT.

P.C. 60.0' R= +11.9-10.0'LT.

111 T/L +50 112 +50 113 +50 114 +50 115 T/L +50 116 +50 117

1/4 SEC LINE

CTR. 15.0' R= +95.0-36.0'RT.

CTR. 15.0' R= +55.3-36.0'RT.

CTR. 15.0' R= +24.6-36.0'RT.

CTR. 15.0' R= +84.9-36.0'RT.

N. 32ND ST.

N. 31ST ST.

#3133 APTS.

#3127 HOUSE

#3121 HOUSE

#3111 HOUSE (LAW OFFICE)

BM HYD SE CORNER N.32ND ST. & W. WISCONSIN AVE. STA. 113+60.25'RT. (NW BOLT) ELEV. 98.71

BM HYD SE C N.31ST ST. STA. 116+85 (TOP OF OPE ELEV. 100.

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 56 E

FILE NAME: W:\SPR\WISC_20-35\PDET11-17.DGN

2

WEST

WISCONSIN

AVENUE

N. 29TH ST.

LUTHERAN CHURCH
#3022

TRIPOLI SHRINE
#3000

GRAND ANN APTS.
#2904

APTS.
#2848

#2919
AVENUE TOWER APTS.

#2905
APTS.

#3035
APTS.

#3001
VILLAGE INN HOTEL

#2929
PLAZA WEST APTS.

N. 30TH ST.

N

CAUTION

17 18 19 20 21 22

CTR. 15.0' R=
+69.4-70.0'LT.

CTR. 60.0' R=
+54.2-68.5'LT

CTR. 15.0' R=
+29.7-70.0'LT.

P.C. 60.0' R=
+19.6-24.0'LT.

CTR. 2.0' R=
+52.2-12.0'LT.

CTR. 2.0' R=
+19.0-12.0'LT.

∠PT. +66.2
14.0' LT.

∠PT. +26.2
24.0' LT.

∠PT. +66.2
10.0' LT.

∠PT. +26.2
20.0' LT.

CTR. 2.0' R=
+54.5-22.0'LT.

CTR. 4.0' R=
+96.0-20.0'LT.

CTR. 2.0' R=
+79.8-12.0'LT.

P.C. 60.0' R=
+22.2-24.0'LT.

60' R.

CTR. 2.0' R=
+54.8-12.0'LT.

CTR. 15.0' R=
+55.0-36.0'RT.

CTR. 15.0' R=
+15.1-36.0'RT

CTR. 15.0' R=
+59.7-36.0'RT.

117 +50 T/L 118 +50 119 +50 120 +50 121 +50 122 T/L +50 123

1/4 SEC LINE

BM HYD SE CORNER
N.31ST ST. & W. WISCONSIN AVE.
STA. 116+85.23'RT.
(TOP OF OPERATING NUT)
ELEV. 100.66

BM HYD SE CORNER
N.30TH ST. & W. WISCONSIN AVE.
STA. 120+15.24'RT.(NW BOLT)
ELEV. 103.37

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 57	E

FILE NAME: W:\SPR\WISC_20-35\PDET17-23.DGN

2

WEST WISCONSIN AVENUE

WISCONSIN AVENUE ELEMENTARY SCHOOL
#2700-2708

BM: STD #150 NW CORNER
N. 27TH ST. & W. WISCONSIN AVE.
7' W. & 21' N. OF CURBS
IN WATER VALVE BOX. STA. 120+76, 32' LT.
ELEV = 109.836

N

HOUSE #2838-2840
HOUSE #2830-2836
ST. PAUL'S CHURCH #2812-2820

N. 28TH PL.
N. 28TH ST.

24
26

CAUTION

CTR. 15.0' R= +99.5-70.0'LT.
CTR. 15.0' R= +53.5-70.0'LT.
CTR. 15.0' R= +23.1-70.0'LT.
CTR. 15.0' R= +90.0-70.0'LT.
CTR. 7.0' R= +61.0-17.0'LT.
CTR. 2.0' R= +25.7-12.0'LT.
CTR. 2.0' R= +12.1-12.0'LT.
CTR. 2.0' R= +18.1-22.0'LT.
CTR. 4.0' R= +00.0-14.0'LT.
60' R.
CTR. 2.0' R= +39.5-12.0'LT.
CTR. 15.0' R= +20.1-36.0'RT.
CTR. 15.0' R= +65.0-36.0'RT.
CTR. 15.0' R= +38.6-36.0'RT.
CTR. 60.0' R= +38.6-36.5'RT.

∠PT. +73.0 14.0' LT.
∠PT. +33.0 24.0' LT. (SC)
∠PT. +04.1 21.0' RT.
∠PT. +13.6 21.5' RT.

END CONSTRUCTION
STA. 127+33.0 T/L

123 +50 124 +50 125 +50 126 +50 127 +50 128 +50 129
T/L

R/W

5CR CONC 5CR 2CR 4CR 3CR 2CR

BRICK PILLARS & IRON FENCE

LAWN ASPH CONC BLOCKS CONC BASE FIBER FULL CW CUC WEP FO G ENT I RISER

CONC. PAVEMENT "2013"

#2829 OFFICE BLDG.
#2801 OFFICE BLDG.
#2733 TRAVIS ACADEMY
#2729-2731
#2727-2725 BAR
#2719 BILLIARDS
#2709-2711 FOR LEASE

N. 29TH ST.
N. 28TH ST.

BM HYD SE CORNER
N. 29TH ST. & W. WISCONSIN AVE.
STA. 123+30.23' RT. (NW BOLT)
ELEV. 105.77

BM HYD SE CORNER
N. 28TH ST. & W. WISCONSIN AVE.
STA. 126+40.24' RT. (NW BOLT)
ELEV. 108.84

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 58	E

FILE NAME: W:\SPR\WISC_20-35\PDET23-29.DGN

REVISED DATE: 07-20-2017 BY DB

AVE.
20+76, 32' LT.

WEST WISCONSIN AVENUE

CITY OF MILWAUKEE #2630 | APTS. #2620-2622 | APTS. #2616 | RED CROSS #2602 | RETAIL STORES #2532 | #2524

P.L.

33' 33' 50' 15' 76' 40'

ASPH ON CONC

N

CAUTION

BEGIN CONSTRUCTION
STA. 133+12.0 T/L

CAUTION

CAUTION

CAUTION

CAUTION

CTR. 15.0' R=
+10.5-70.0'LT.

CTR. 2.0 'R=
+12.5-12.0'RT.

CTR. 15.0' R=
+39.1-36.5'RT.

CTR. 15.0' R=
+04.3-36.0'RT.

BRICK PILLARS & IRON FENCE
ASPH
BUS STOP
FULL CW
CW
CUC
LAWN
MONOTUBE
BUS SHELTER
CURB
ASPH
2CR
R/W
53.0'LT
8.5'LT
CONC. PAVEMENT "2013"
+48.0
+12.0
WEP
TEL
CONC
8"
9"
12"
20'
6"
2"
6'
11'
2'
GRAVEL
ENT
CONC PARK
IRON FENCE
TERRACE AREA
PLANTER
NEW CONC
PED CURB
NOT SHOWN ON XSEC
ASPH. PARKING

129 1/4 SEC LINE +50 T/L 130 +50 131 1/4 SEC LINE +50 132 +50 133 +50 134 +50 135 1/4 SEC LINE

179°51'07"

MON.

PHONE
HOLLOW CW
SECTION LINE
52'
35' 33'

N. 26TH ST.

#2709-2711
FOR LEASE

#2701-03
MARKET

#2601-2611

#2525
US BANK

CONC
33'
66'

BM HYD SE CORNER
N.26TH ST. & W. WISCONSIN AVE.
STA. 133+91.36'RT.(NW BOLT)
ELEV. 117.63

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 59	E

FILE NAME: W:\SPR\WISC_20-35\PDET29-35.DGN

REVISED DATE: 07-19-2017 BY DB

2

WEST

WISCONSIN AVENUE

#2524-2526

APTS. #2518

ABAND. GAS STATION #2502-2506

GRAND AVENUE SCHOOL #2430

29

47

CAUTION

CTR. 15.0' R= +07.5-70.0'LT.

CTR. 15.0' R= +69.5-70.0'LT.

∠PT. +12.5 14.0' LT.

∠PT. +72.5 24.0' LT.

∠PT. +03.8 20.0' LT.

∠PT. +43.8 10.0' LT.

CTR. 2.0' R= +03.8-22.0'LT.

CTR. 2.0' R= +70.4-12.0'LT.

∠PT. +70.4 14.0' LT.

∠PT. +30.4 24.0' LT.

CTR. 7.0' R= +95.2-17.0'LT.

135 +50 T/L 136 +50 +50 138 +50 139 +50 140 T/L +50 141

CTR. 15.0' R= +06.3-36.0'RT.

CTR. 15.0' R= +70.3-36.0'RT.

*639 N. 25TH ST. METHODIST CHURCH

#2455 MC DONALDS

#2435 SHERION APTS.

#2425

N. 25TH ST.

BM HYD SE CORNER
N.25TH ST. & W. WISCONSIN AVE.
STA. 137+73.25'RT.(NW BOLT)
ELEV. 122.57

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 60	E

FILE NAME: W:\SPR\WISC_20-35\PDET35-41.DGN

REVISED DATE: 07-20-2017 BY DB

WEST

N

WISCONSIN

AVENUE

GRAND AVE. APTS. #2336

AMBASSADOR HOTEL #2308-2324

AVENUE MANOR APTS. #2224

AMBASSADOR HOTEL

STAMPED CONC PATIO

(SOME PARKING)

ASPH. PARKING

(OWN PARKING LOT TO SOUTH)

CAUTION 18KV

CAUTION

CAUTION 38KV

CTR. 15.0' R= +55.4-70.0'LT.

CTR. 15.0' R= +21.3-70.0'LT.

CTR. 15.0' R= +05.5-70.0'LT.

CTR. 15.0' R= +71.0-70.0'LT.

CTR. 7.0' R= +33.0-17.0'LT.

CTR. 7.0' R= +95.2-17.0'LT.

CTR. 2.0' R= +53.4-22.0'LT.

CTR. 2.0' R= +23.6-12.0'LT.

CTR. 2.0' R= +03.7-22.0'LT.

CTR. 2.0' R= +72.8-12.0'LT.

∠PT. +93.4 20.0' LT.

∠PT. +33.3 10.0' LT.

∠PT. +23.0 14.0' LT.

∠PT. +83.0 24.0' LT.

∠PT. +53.7 20.0' LT.

∠PT. +93.7 10.0' LT.

CTR. 15.0' R= +55.0-36.0'RT.

CTR. 15.0' R= +20.9-36.0'RT.

CTR. 15.0' R= +05.5-36.0'RT.

CTR. 15.0' R= +71.0-36.0'RT.

141 142 143 144 145 146 147 +50

T/L

1/4 SEC LINE

38

36

N. 24TH ST.

N. 23RD ST.

#2401 RAYE/EAGLES

#2335 APTS.

#2323 SCRUB-A-DUB

#2311 WESTON APTS.

#2301-2305 AMBASSADOR INN

#2227 PARKING LOT FOR AMBASSADOR INN

BM HYD SE CORNER
N.24TH ST. & W. WISCONSIN AVE.
STA. 143+09.39'RT.(NW BOLT)
ELEV. 129.85

BM HYD SE CORNER
N.23RD ST. & W. WIS
STA. 146+73.25'RT.(
ELEV. 129.85

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 61	E

FILE NAME: W:\SPR\WISC_20-35\PDET41-47.DGN

REVISED DATE: 07-19-2017 BY DB

2

AVENUE MANOR APTS. #2224 | MICHAELS RESTAURANT #2220 | TACO BELL #2210 | BMO BANK #2120

WEST N. 22ND ST. WISCONSIN AVENUE N. 21ST ST.

N

38 41 42

CAUTION

CTR. 15.0' R= +98.0-70.0'LT.
CTR. 15.0' R= +58.5-70.0'LT.
CTR. 15.0' R= +95.3-70.0'LT.
CTR. 15.0' R= +63.3-70.0'LT.
∠PT. +22.8 14.0' LT.
∠PT. +82.8 24.0' LT.
CTR. 2.0' R= +96.2-22.0'LT.
∠PT. +40.3 20.0' LT.
CTR. 2.0' R= +60.2-22.0'LT.
∠PT. +86.2 10.0' LT.
P.T. 60.0' R= +92.7-10.0'LT.
∠PT. +83.5 10.0' LT.
∠PT. +43.5 20.0' LT.
CTR. 2.0' R= +93.5-22.0'LT.
CTR. 2.0' R= +64.9-22.0'LT.
P.T. 60.0' R= +97.5-10.0'LT.

147 +50 148 +50 149 1/4 SEC LINE +50 150 +50 151 +50 152 +50 153

#2227 PARKING LOT FOR AMBASSADOR INN | #2207 PLANNED PARENTHOOD | #2133 CHURCH | #2121 VICTORY CHRISTIAN ACADEMY | #2111-2115 APTS. | #2101 APTS. | #2051 LAW FIRM

BM HYD SE CORNER 23RD ST. & W. WISCONSIN AVE. STA. 146+73.25'RT.(WNW BOLT) ELEV. 129.85

BM HYD S/S W. WISCONSIN AVE. STA. 149+58.25'RT.(WNW BOLT) ELEV. 125.85

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 62	E

FILE NAME: W:\SPR\WISC_20-35\PDET47-53.DGN

REVISED DATE: 07-19-2017 BY DB

2

2

WEST

WISCONSIN

AVENUE

BLDG.
#2040

P.L.

PABST MANSION
#2000

46

N

CAUTION

END PROJECT
STA.156+80.00 T/L

P.C. 60.0' R=
+61.7-23.0'LT.

CTR. 2.0' R=
+94.2-12.0'LT.

CTR. 2.0' R=
+62.2-12.0'LT.

153 +50 154 +50 T/L 155 +50 156 +50 157

1/4 SEC LINE

MON.

CTR. 15.0' R=
+95.7-36.0'RT.

∠PT. +69.5
32.0' RT.

CTR. 15.0' R=
+61.7-37.0'RT.

ENT

ENT ENT ENT

BIKE RACK

CUC

ASPH

CONC

LAWN

CONC.
RET. WALL

ASPH.
DWY.

CONC.
DWY.
CONC.
PILLAR

ST LIGHT BOX
FULL
CW

WEP

TEL

BUSH

3X5"

3X3"

2X6"

WOODRAMP

2CR

ASPH.
PARKING

44

FULL
CW

ASPH. ON
CONC.

N. 20TH ST.

#2029-2037
MARYLAND COURTS APTS.

#2017-2023

#2009-2011

#2001
FUNERAL HOME

BM HYD S/S W. WISCONSIN AVE.
STA. 152+70.25'RT.(NW BOLT)
ELEV. 123.65

BM HYD SW CORNER
N.20TH ST. & W. WISCONSIN AVE.
STA. 156+08.34'RT.(NW BOLT)
ELEV. 113.72

LEGEND

CONSTRUCTION PERMIT OBTAINED

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN DETAIL	SCALE FEET 0' 40'	SHEET NO: 63	E

FILE NAME: W:\SPR\WISC_20-35\PDET53-57.DGN

REVISED DATE: 07-19-2017 BY DB

2

B.M. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3846
STA. 18+19 - 61' LT.
ELEV. 95.60

#3846 #3820 #3808 #3742

WEST WISCONSIN AVENUE

N

BEGIN PROJECT
STA. 17+23.30 T/L

P.L. P.L. P.L.

ENT ENT

R/W

FULL CW W/INT C&G (BRIDGE DECK)

BRIDGE EXPANSION JOINT

CONC. ASPH. CONC. ASPH. ASPH.

RR TIE BORDER RR TIE BORDER RR TIE BORDER

CUC CUC CUC CUC CUC CUC

TEL

N. 89°01'02"E.

17 +50 18 +50 19 +50 20 +50 21 +50 22

NO CURB NO CURB

T/L

CONC PARAPET WALL CONC PARAPET WALL

WEST BLUE MOUND ROAD

0.4 OVERHANG 0.3 OVERHANG 0.7 OVERHANG

RR TIES & PLYWOOD WALL

FULL CW W/INT C&G

R/W

#3801

WEP

LAWN R/W LAWN

WOOD BOX

ASPH. PARKING

LAWN

SAP

BUSHES @ HIGH CW

N. 38TH ST.

11" 11" 15"

ASPH. PARKING

B.M. NW BOLT HYD SW CORNER
N. 38TH ST. & W. WISCONSIN AVE.
STA. 21+47 - 35' RT.
ELEV. 96.72

(A) (C) INLET PROTECTION TYPE A

(B) INLET PROTECTION TYPE B

(C) INLET PROTECTION TYPE C

SHEET 1 OF 13

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 64	E

FILENAME: W:\SPR\WISC_38-35\EROSION16_22.DGN

REVISED DATE: 07-20-2017 BY SB

2

B.M. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3716
STA. 23+18 - 61' LT.
ELEV. 102.69

#3716 TO 3732

WEST WISCONSIN AVENUE

MIDAS
#3706

N. 37TH ST.

DEAD END ALLEY

P.L.

CONC TIRE STOPS

ENT

R/W

MATCH POINT

CURB

CAUTION

N. 36TH ST.

LAWN

CONC

DECORATIVE WALL AND STATUETTES

CUC

BRICK RET. WALL

FULL CW

22 +50 23 +50 24 +50 25 +50 26 +50 27 +50 28

N. 89° 01' 02" E.

1/4 SEC LINE

T/L

WEP

WATER

MIS

FULL CW

LAWN

ASPH. PARKING

WALL

TILES OVER CONC

CONC PILLAR ENT.

BRICK PILLARS

CONC BASE

MULCH

N. 36TH ST.

#3601 TO 3711
WISCONSIN KITCHEN MART

B.M. NW BOLT HYD
S/S W. WISCONSIN AVE. @ #3601
STA. 24+72 - 25' RT.
ELEV. 106.93

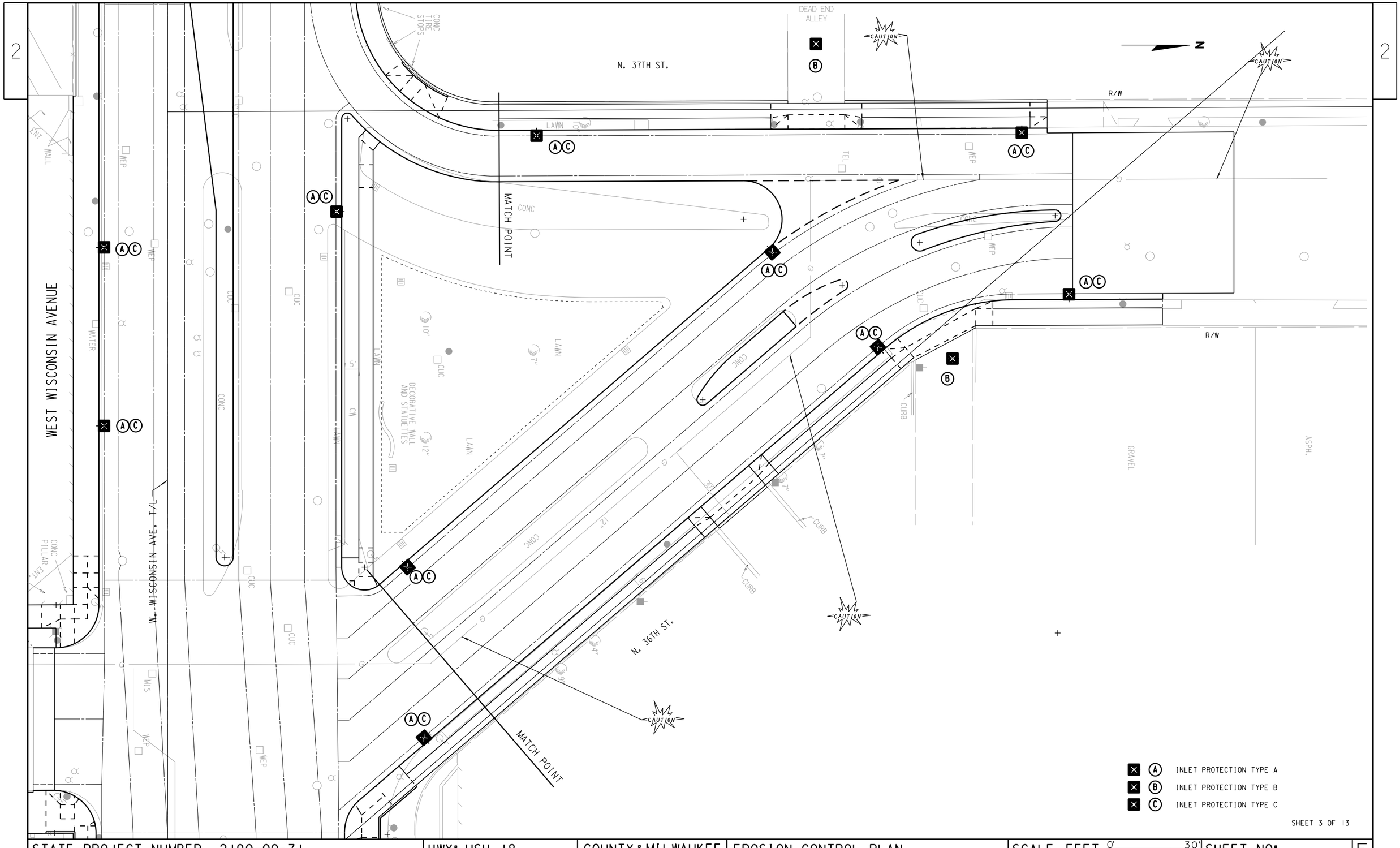
(A) INLET PROTECTION TYPE A
(B) INLET PROTECTION TYPE B
(C) INLET PROTECTION TYPE C

SHEET 2 OF 13

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 65	E

FILENAME: W:\SPR\WISC_38-35\EROSION22_28.DGN

REVISED DATE: 07-20-2017 BY SB



SHEET 3 OF 13

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 30'	SHEET NO: 66	E

FILENAME: W:\SPR\WISC_38-35\EROSION25_27.DGN

REVISED DATE: 07-20-2017 BY SB

WALGREENS
#3522

TROOP CAFE
#3430

HOUSE
#3424

RANDOLPH GRAND MANOR
#3414

OFFICE BLDG.
#3400

WEST WISCONSIN AVENUE

N

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA.105+63.50

CAUTION

CONC. BRICK PILLARS CONC BASE BRICK PILLARS CONC BASE BRICK COLUMNS BRICK WALL ASPH. PARKING R/W FULL CW 7" 8" 4" 7" 8"

BRICK WALL LIGHT POLES & BUSHES 5CR GROUND ASPH DWY GROUND 4CR CONC 6CR WALL BUS SHELTER R/W FULL CW CW

CUC WEP WAT CONC

28 29 30 31 31

2" G

N. 89° 01' 02" E.

T/L

MON.

1/4 SEC LINE

N. 88° 53' 05" E.

MULCH 10" DRAIN CONC BASE 9" CURB CONC PILLARS CONC CONC PILLARS 8" 15" PLANTINGS FULL CW

ASPH. PARKING ASPH. PARKING

N. 35TH ST.

1/4 SEC LINE

50' 33' 33'

14" GRAVEL BUSHES @ HIGH CW 14" GRAVEL 14" SHELTER R/W 11" 10" 5" 12" BUSHES @ HIGH CW 15" LAWN 4" 33' 20' 6' 3" G FULL CW

CURB ASPH

32+63.5

#3501-05-25-35
RETAIL

B.M. NW BOLT HYD SW CORNER
N. 35TH ST. & W. WISCONSIN AVE.
STA. 29+88 - 26' RT.
ELEV. 106.24

BM HYD S/S
STA. 06+22,23' RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

Ⓐ INLET PROTECTION TYPE A
Ⓑ INLET PROTECTION TYPE B
Ⓒ INLET PROTECTION TYPE C

SHEET 4 OF 13

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 67	E

FILENAME: W:\SPR\WISC_38-35\EROSION28_34.DGN

REVISED DATE: 07-20-2017 BY SB

HOUSE #3424 | P.L. | RANDOLPH GRAND MANOR #3414 | P.L. | OFFICE BLDG. #3400 | P.L. | HOUSE (LAW OFFICE) #3316 | P.L. | VACANT #3300 | P.L. | APTS. #3212 | P.L. | HOUSE #3212 | P.L.

WEST N. 34TH ST. WISCONSIN AVENUE

N

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA.105+63.50

60' 30' ASPH 20' 6' 6'

CAUTION CAUTION CAUTION

GROUND 4CR CONC 6CR R/W 6CR DWY (NIU) 2CR 3CR NIU 3CR 3CR R/W

A C A C A C A C

CUC CUC CUC

WEP WEP WEP

105 +50 T/L 106 +50 107 +50 1/4 SEC LINE 108 +50 109 +50 110 T/L +50 111

CW FULL CW CW CW CW

PLANTER SPRINKLER VALVES

LAWN BUSHES @ HIGH CW R/W CURB ASPH LAWN ASPH R/W GRAVEL LAWN

105+63.5

BM HYD S/S
STA. 06+22,23'RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

#3401
MARQUETTE UNIVERSITY HIGH SCHOOL

BM HYD S/S
STA. 10+00,23'RT.(NW BOLT)
ELEV. 101.60

- A INLET PROTECTION TYPE A
- B INLET PROTECTION TYPE B
- C INLET PROTECTION TYPE C

SHEET 5 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 68	E

FILE NAME: W:\SPR\WISC 20-35\EROSION05-11.DGN

REVISED DATE: 07-19-2017 BY SB

HUDSON APTS. #3200 | APTS. #3120-3128 | AVENUE WEST APTS. #3100 | HOUSE #3046 | HOUSE #3034

WEST | N. 32ND ST. | WISCONSIN | N. 31ST ST. | AVENUE

N

CAUTION

111 T/L +50 | 112 +50 | 113 +50 | 114 +50 | 115 +50 | 116 T/L +50 | 117

1/4 SEC LINE

N. 32ND ST. | N. 31ST ST.

#3133 APTS. | #3127 HOUSE | #3121 HOUSE | #3111 HOUSE (LAW OFFICE)

BM HYD SE CORNER
N.32ND ST. & W. WISCONSIN AVE.
STA. 113+60,25'RT.(NW BOLT)
ELEV. 98.71

BM HYD SE C
N.31ST ST.
STA. 116+85
(TOP OF OPE
ELEV. 100.

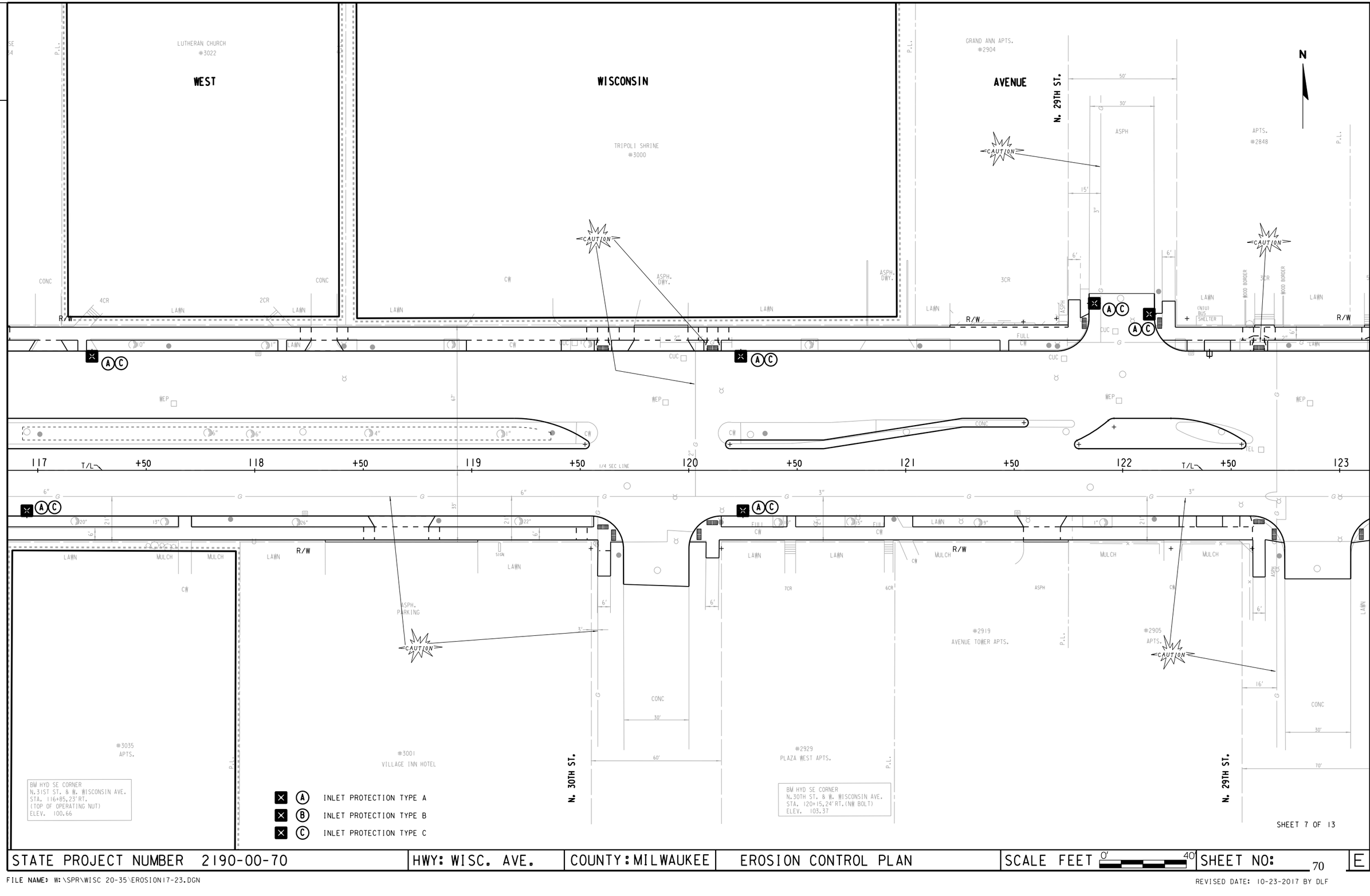
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C

SHEET 6 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 69	E

FILE NAME: W:\SPR\WISC 20-35 EROSION11-17.DGN

REVISED DATE: 07-19-2017 BY SB

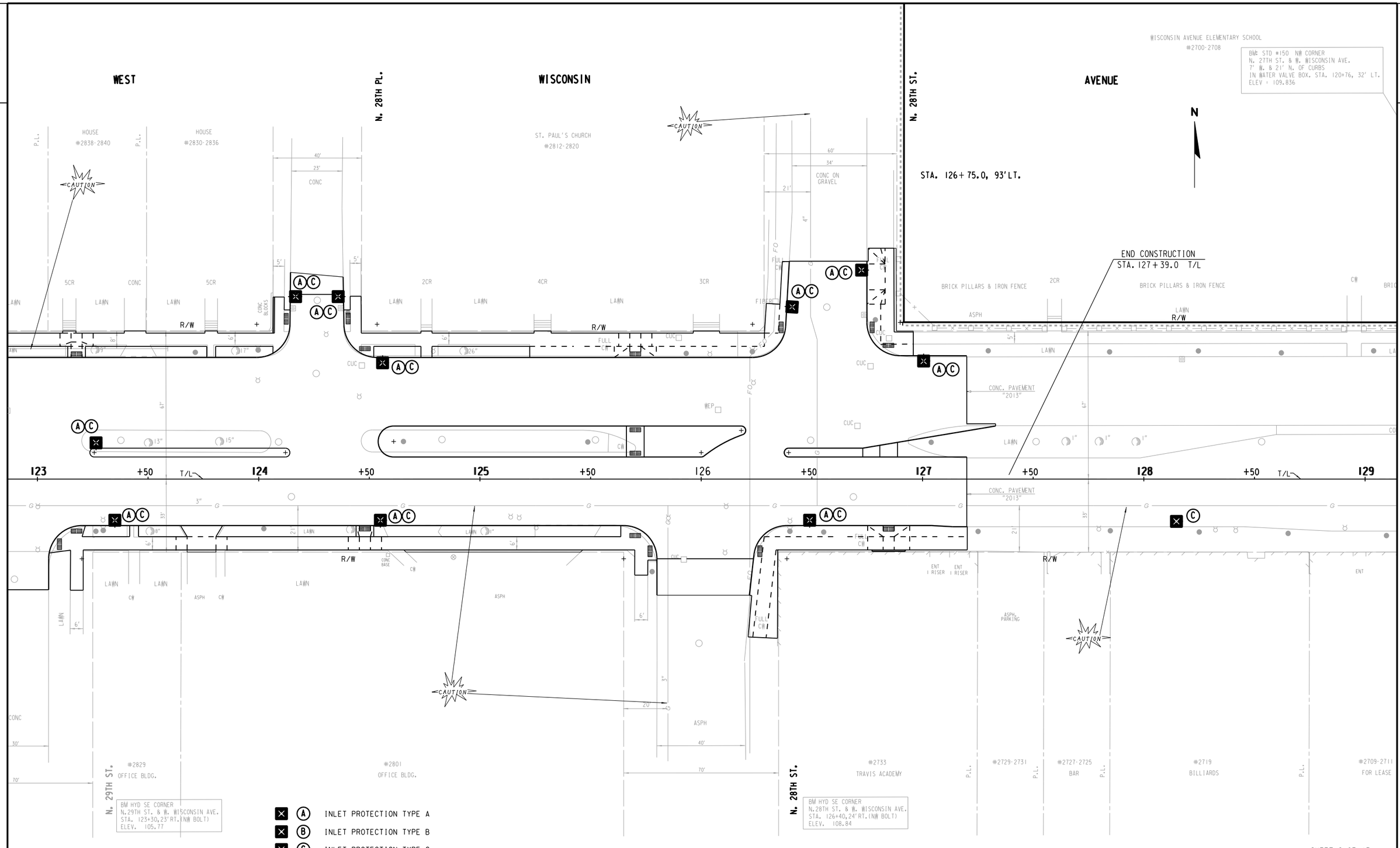


STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 70	E

FILE NAME: W:\SPR\WISC 20-35\EROSION17-23.DGN

REVISED DATE: 10-23-2017 BY DLF

2



SHEET 8 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 71	E

FILE NAME: W:\SPR\WISC 20-35\EROSION23-29.DGN

REVISED DATE: 07-20-2017 BY SB

AVE.
20+76, 32' LT.

CITY OF MILWAUKEE
#2630

APTS.
#2620-2622

APTS.
#2616

RED CROSS
#2602

RETAIL STORES
#2532

#2524

P.L.

WEST WISCONSIN AVENUE

33' 33' 50' 76' 40'

ASPH ON CONC

N

CAUTION

BRICK PILLARS & IRON FENCE

BUS STOP

FULL CW

CW

ASPH

CURB

BUS SHELTER

2CR

R/W

MAIL

6'

CONC PARK

GRAVEL

ENT

LAWN

MONOTUBE

9" 12" 6"

CUC

TEL

WEP

CONC

CONC. PAVEMENT "2013"

179° 51' 07"

129 1/4 SEC LINE +50 130 MON. +50 T/L 131 1/4 SEC LINE +50 132 +50 133 +50 134 T/L +50 1/4 SEC LINE 135

PHONE

HOLLOW CW

PED CURB

IRON

NEW CONC

TERRACE AREA

PLANTER

NOT SHOWN ON XSEC

ASPH. PARKING

BEGIN CONSTRUCTION
STA. 133+12.0 T/L

SECTION LINE

#2709-2711
FOR LEASE

#2701-03
MARKET

#2601-2611

#2525
US BANK

N. 27TH ST.

N. 26TH ST.

BM HYD SE CORNER
N.26TH ST. & W. WISCONSIN AVE.
STA. 133+91.36' RT.(NW BOLT)
ELEV. 117.63

(A) INLET PROTECTION TYPE A
(B) INLET PROTECTION TYPE B
(C) INLET PROTECTION TYPE C

SHEET 9 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 72	E

FILE NAME: W:\SPR\WISC 20-35\EROSION29-35.DGN

REVISED DATE: 07-20-2017 BY SB

WEST

WISCONSIN AVENUE

#2524-2526

APTS. #2518

ABAND. GAS STATION #2502-2506

GRAND AVENUE SCHOOL #2430

N

CAUTION

CONC PARKING

CONC.

CONC WALL

LAWN

R/W

5CR

CW

STONE SLAB

POST

CONC

PHONE

TEL

CUC

FULL CW

PED CURB

BUS SHELTER

STUMP

WEP???

6" PLANTER

T/L

135 +50 136 +50 137 +50 138 +50 139 +50 140 +50 141

NEW CONC CURB

BUSHES

CONC WALL

ASPH. RAMP

ASPH. PARKING

BOULDERS

WOOD BORDER

CONC PILLARS

WALL

CURB

ASPH

ENT CW

BUSHES 6' HIGH CW

*639 N. 25TH ST. METHODIST CHURCH

#2455 MC DONALDS

#2435 SHERION APTS.

#2425

N. 25TH ST.

BM HYD SE CORNER
N.25TH ST. & W. WISCONSIN AVE.
STA. 137+73.25' RT.(NW BOLT)
ELEV. 122.57

(A) INLET PROTECTION TYPE A

(B) INLET PROTECTION TYPE B

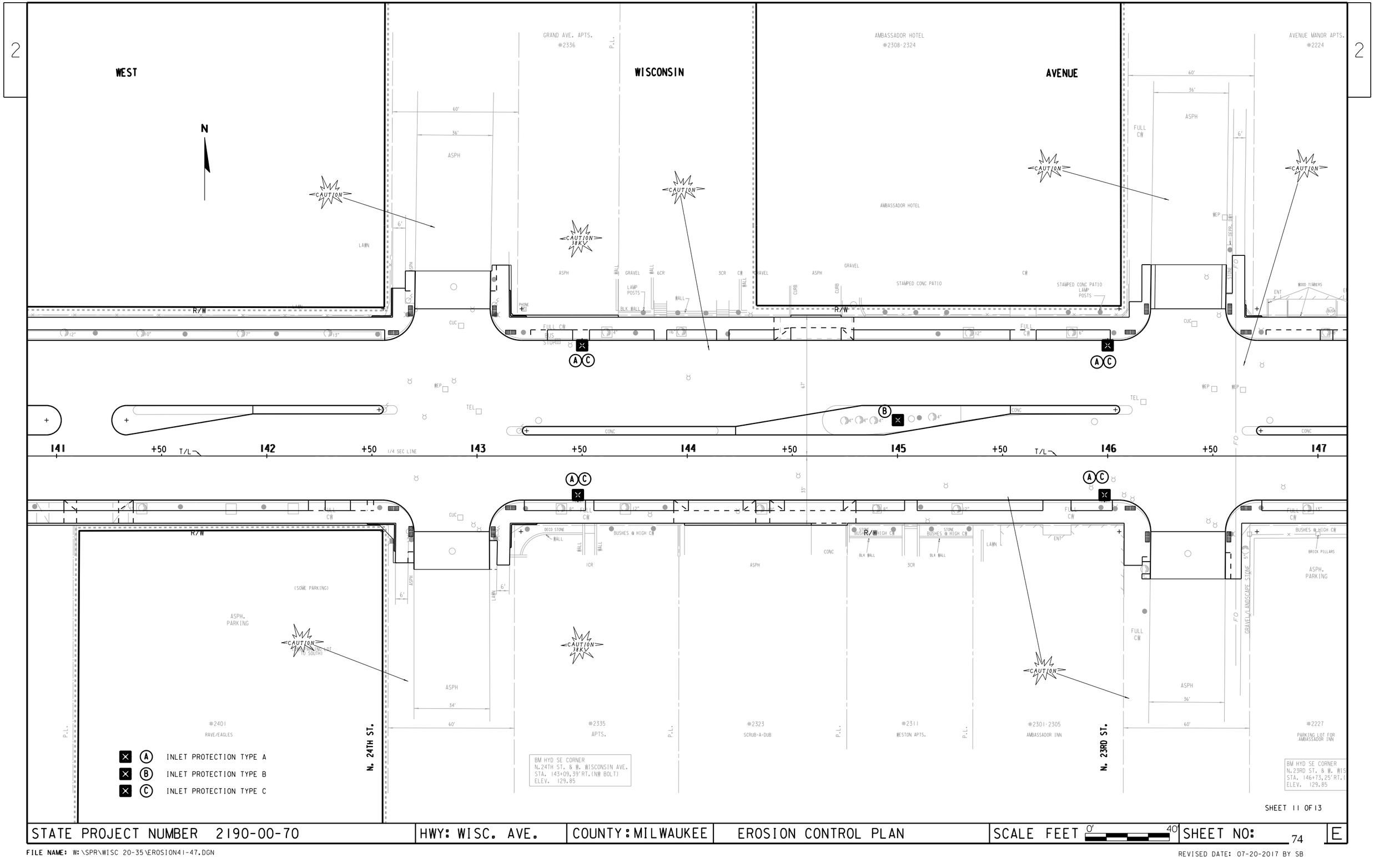
(C) INLET PROTECTION TYPE C

SHEET 10 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 73	E

FILE NAME: W:\SPR\WISC 20-35\EROSION35-41.DGN

REVISED DATE: 07-20-2017 BY SB



SHEET 11 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 74	E

FILE NAME: W:\SPR\WISC 20-35\EROSION41-47.DGN

REVISED DATE: 07-20-2017 BY SB

2

AVENUE MANOR APTS. #2224

MICHAELS RESTAURANT #2220

TACO BELL #2210

BMO BANK #2120

WEST

N. 22ND ST.

WISCONSIN AVENUE

N. 21ST ST.

N

CAUTION

CAUTION

CAUTION

ASPH, PARKING

BUSHES & PLANTS

PLANTER

BUS SHELTER

BIKE RACK

WOOD TIMBERS

SIGN BASE

LANDSCAPE

CONC. DWY.

R/W

FULL CW

ENT

CONC

ASPH

LAWN

CUC

WEP

TEL

147 T/L +50 148 +50 149 1/4 SEC LINE +50 150 +50 151 +50 152 T/L +50 153

A C

B

BUSHES 6' HIGH CW

BRICK PILLARS

WALL

1CR

CONC BLK WALL

2CR

DRAINS

RR TIES

3CR

4CR

CRUSHED GRANITE

CONC. DWY.

#2227 PARKING LOT FOR AMBASSADOR INN

#2217 APTS.

#2207 PLANNED PARENTHOOD

#2133 CHURCH

#2121 VICTORY CHRISTIAN ACADEMY

#2111-2115 APTS.

#2101 APTS.

#2051 LAW FIRM

P.L.

BM HYD SE CORNER N.23RD ST. & W. WISCONSIN AVE. STA. 146+73,25'RT.(WNW BOLT) ELEV. 129.85

BM HYD S/S W. WISCONSIN AVE. STA. 149+58,25'RT.(WNW BOLT) ELEV. 125.85

A INLET PROTECTION TYPE A

B INLET PROTECTION TYPE B

C INLET PROTECTION TYPE C

SHEET 12 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 75	E

FILE NAME: W:\SPR\WISC 20-35\EROSION47-53.DGN

REVISED DATE: 07-20-2017 BY SB

2

BLDG.
#2040

WEST

P.L.

PABST MANSION
#2000

WISCONSIN

AVENUE

N

END PROJECT
STA.156+80.00 T/L

CAUTION

LAWN

ASPH
CONC

CONC.
RET. WALL

ASPH.
DWY.

CONC.
DWY.
CONC.
PILLAR

R/W

ENT

BIKE RACK

CUC

ST LIGHT BOX
FULL
CW

WEP

TEL

BUSH

3X5"

3X3"

2X6"

153 +50 T/L 154 +50 155 +50 156 +50 157

MON.

1/4 SEC LINE

BIKE RACK

WOODRAMP

2CR

ASPH.
PARKING

FULL
CW

ASPH. ON
CONC.

#2029-2037
MARYLAND COURTS APTS.

#2017-2023

#2009-2011

#2001
FUNERAL HOME

BM HYD S/S W. WISCONSIN AVE.
STA. 152+70.25'RT.(NW BOLT)
ELEV. 123.65

BM HYD SW CORNER
N.20TH ST. & W. WISCONSIN AVE.
STA. 156+08.34'RT.(NW BOLT)
ELEV. 113.72

N. 20TH ST.

(A) INLET PROTECTION TYPE A
(B) INLET PROTECTION TYPE B
(C) INLET PROTECTION TYPE C

SHEET 13 OF 13

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SCALE FEET 0' 40'	SHEET NO: 76	E

FILE NAME: W:\SPR\WISC 20-35\EROSION53-57.DGN

REVISED DATE: 07-20-2017 BY SB

2

B.M. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3846
STA. 18+19 - 61' LT.
ELEV. 95.60

#3846 #3820 #3808 #3742

WEST WISCONSIN AVENUE

N

BEGIN PROJECT
STA. 17+23.30 T/L

1 17+39, 59' LT 45A INLET

2 18+44.5, 59' LT 45A INLET

3 21+4, 59' LT 45A INLET

4 21+12, 40' RT 45A INLET

5 21+42.3, 46.5' RT 45A INLET

6 21+75.1, 24.0' RT 4'-0" MANHOLE

100 1P-1 200 IP-2 101

102 2P-1 300 201 2P-2 103

104 202 105 4P-1 302 203 204

301 205 303 108A 107 106 6P-1 6P-2

ENT R/W ASPH. CONC. RR TIE BORDER TRAFFIC LOOP DETECTORS BRIDGE EXPANSION JOINT

N. 89° 01' 02" E. 17 +50 18 NO CURB +50 19 +50 20 +50 NO CURB T/L 21 +50 22

CONC PARAPET WALL 0.4' OVERHANG 0.3' OVERHANG 0.7' OVERHANG RR TIES & PLYWOOD WALL FULL CW W/INT C&G 4" LAWN WOOD BOX ASPH. PARKING

#3801

BUSHES @ HIGH CW

N. 38TH ST.

B.M. NW BOLT HYD SW CORNER
N. 38TH ST. & W. WISCONSIN AVE.
STA. 21+47 - 35' RT.
ELEV. 96.72

LEGEND

- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

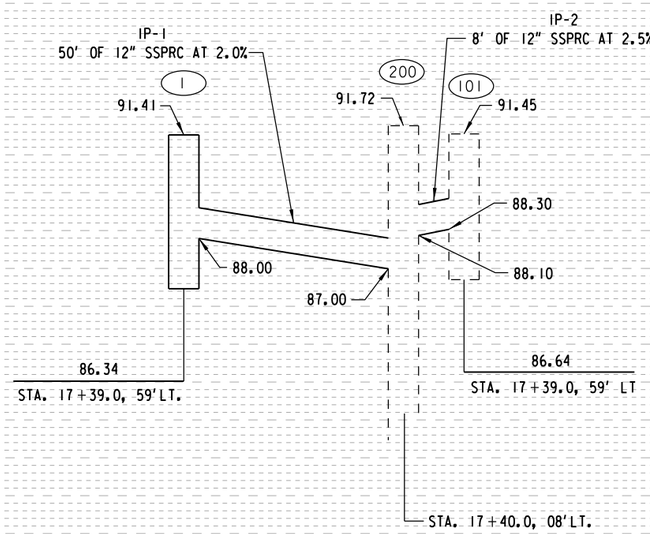
NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN FEBRUARY OF 2015. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 77	E

FILENAME: W:\SPR\WISC_38-35\UTIL 16_22.DGN

REVISED DATE: 10-25-2017 BY JH



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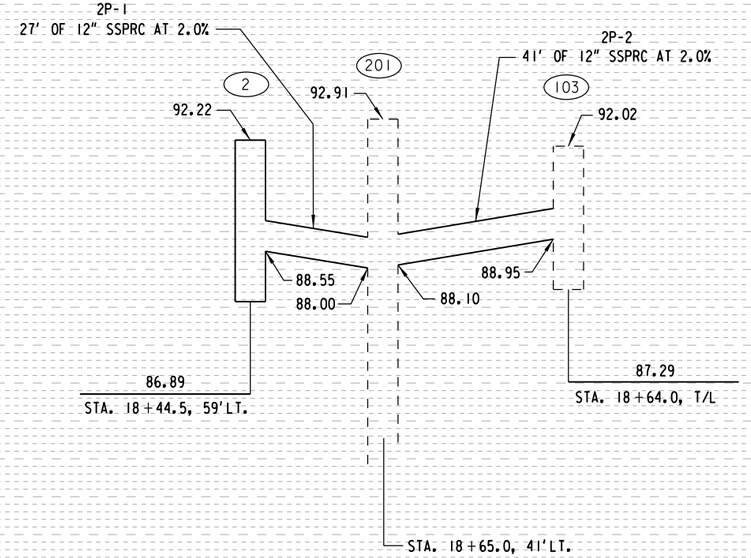
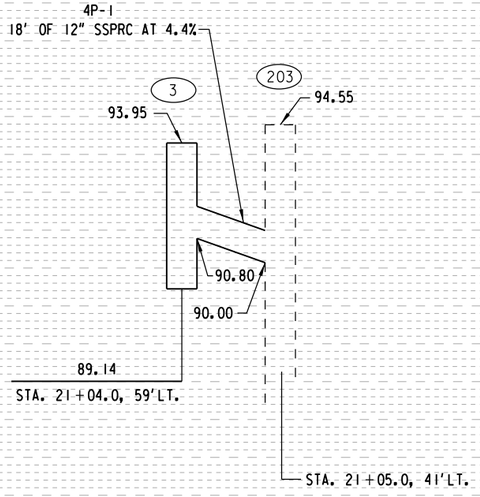


(LOOKING EASTERLY)



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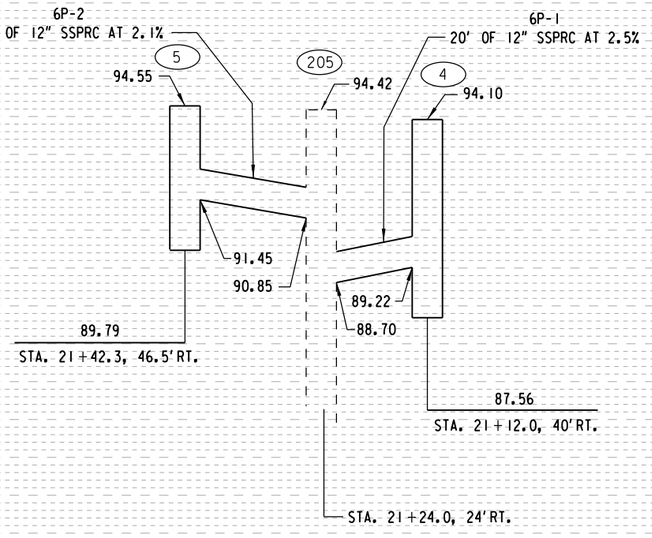

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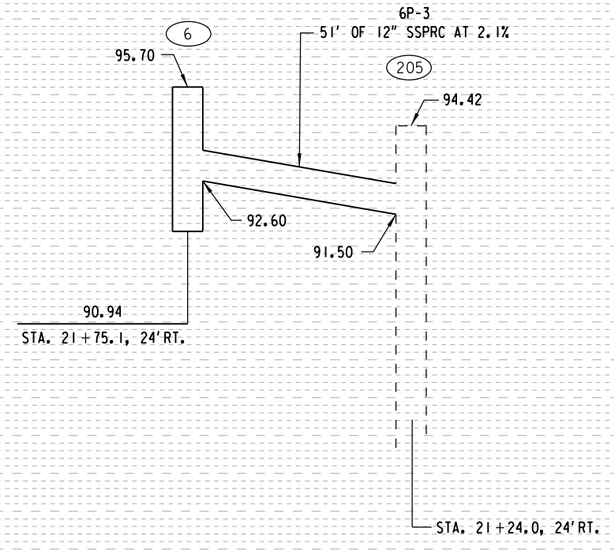


(LOOKING SOUTHERLY)

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 78	E

FILENAME: W:\SPR\WISC_38-35\UTIL 16_22.DGN

REVISED DATE: 10-25-2017 BY JH

2

N

WEST WISCONSIN AVENUE

N. 37TH ST.

N. 36TH ST.

B.M. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3716
STA. 23+18 - 61' LT.
ELEV. 102.69

#3716 TO 3732

MIDAS
#3706

#3601 TO 3711
WISCONSIN KITCHEN MART

B.M. NW BOLT HYD
S/S W. WISCONSIN AVE. @ #3601
STA. 24+72 - 25' RT.
ELEV. 106.93

B.M. NW BOLT HYD SE CORNER
N. 36TH ST. & W. WISCONSIN AVE.
STA. 27+17 - 35' RT.
ELEV. 107.65

8 — 23+75, 59' LT — 44A INLET
7 — 23+21.6, 24' RT — 45A INLET
13 — 25+25, 24' RT — 45A INLET
15A — 25+87, 15' RT — 4'-0" MANHOLE
15B — 25+87.5, 24' RT — 45A INLET
11 — 25+12.5, 61' LT — 45A INLET
17 — 26+98, 91' LT — 45A INLET
18 — 27+60, 62' LT — 45A INLET

MATCH POINT

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN FEBRUARY OF 2015. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

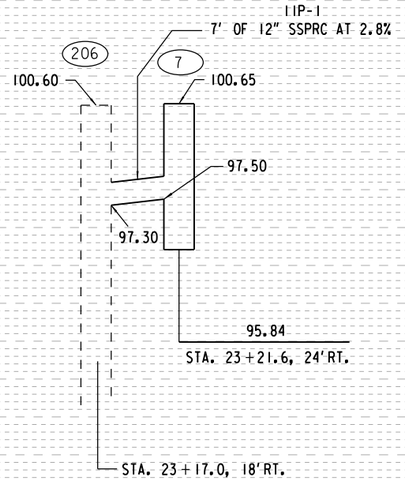
LEGEND

- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 79 E

FILENAME: W:\SPR\WISC_38-35\UTIL 22_28.DGN

REVISED DATE: 10-30-2017 BY SB



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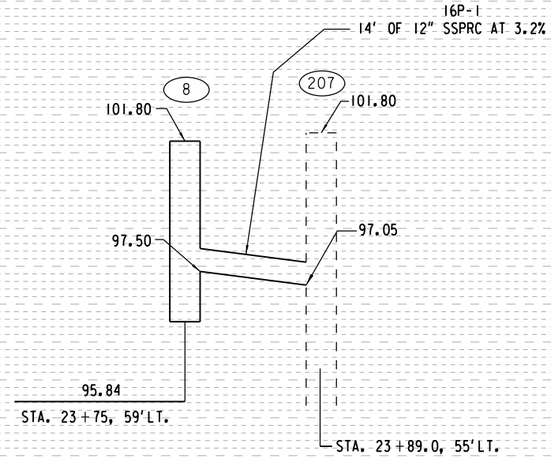
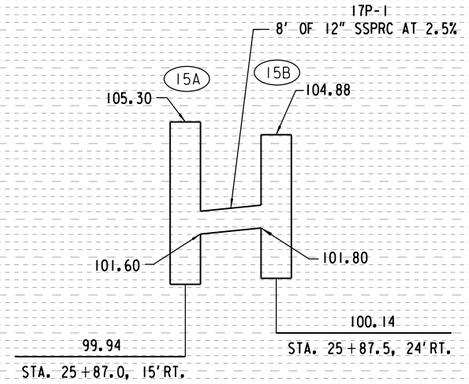


(LOOKING NORTHERLY)



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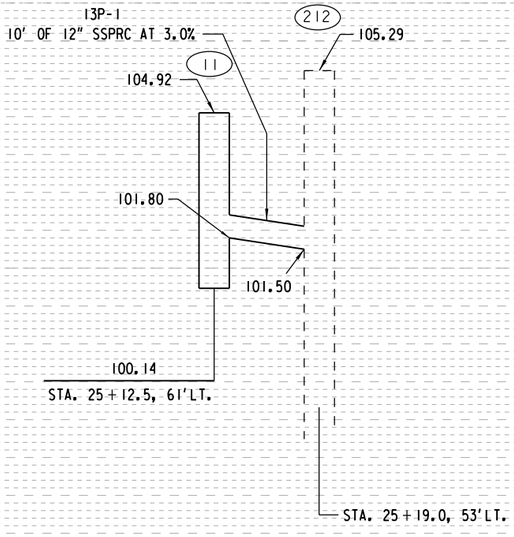
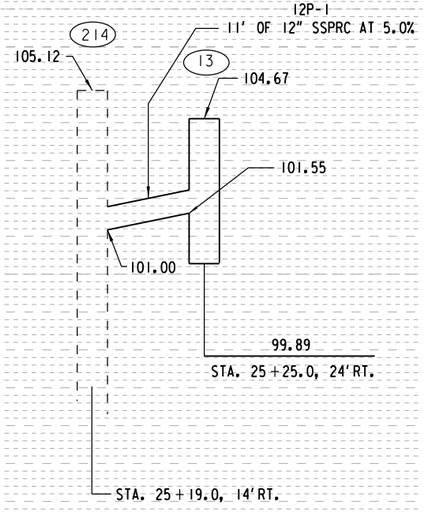


(LOOKING EASTERLY)



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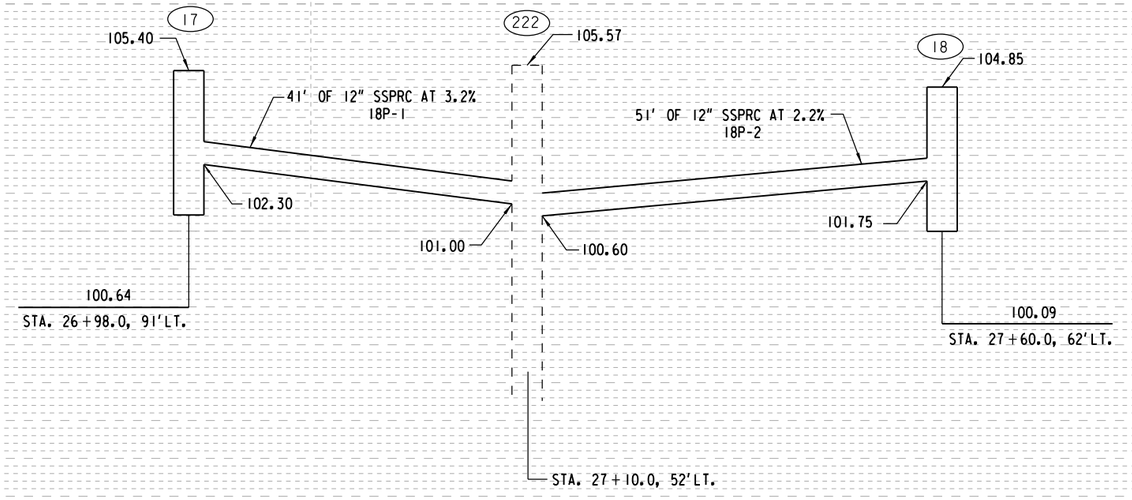


(LOOKING NORTHERLY)

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 80	E

WEST WISCONSIN AVENUE

WALGREENS #3522 | TROOP CAFE #3430 | HOUSE #3424 | RANDOLPH GRAND MANOR #3414 | OFFICE BLDG. #3400

N

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA.105+63.50

23 30+1,85'LT 44A INLET
21 29+58,62'LT 44A INLET
24 30+64.7,85.9'LT 44A INLET
26 32+29,56.4'LT 44A INLET
19 28+73,25'RT 44A INLET
20 28+90,17.2'LT 4'-0" MANHOLE
22 29+85,25'RT 44A INLET
25 32+26.5,21'RT 44A INLET

125 33P-1 225 33P-2 126 123 122 124 224 227 228 226

32P-1 32P-2 31P-1 50P-1 50P-2

CAUTION

CONC. ASPH. PARKING BRICK PILLARS CONC BASE BRICK PILLARS BRICK COLUMNS BRICK WALL R/W FULL CW LIGHT POLES & BUSHES 5CR GROUND ASPH DWY GROUND 4CR CONC 6CR WALL BUS SHELTER CURB GUTTER CONC BASE CONC PILLARS PLANTINGS BUSHES @ HIGH CW GRAVEL LAWN ASPH

CUC W E G CMB MMSD TEL WAT CONC TE&ES

28 29 30 31 32

N. 89°01'02"E. N. 88°53'03"E. 1/4 SEC LINE MON.

N. 35TH ST.

32+63.5

#3501-05-25-35 RETAIL

B.M. NW BOLT HYD SW CORNER
N. 35TH ST. & W. WISCONSIN AVE.
STA. 29+88 - 26'RT.
ELEV. 106.24

BW HYD S/S
STA. 06+22,23'RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN FEBRUARY OF 2015. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

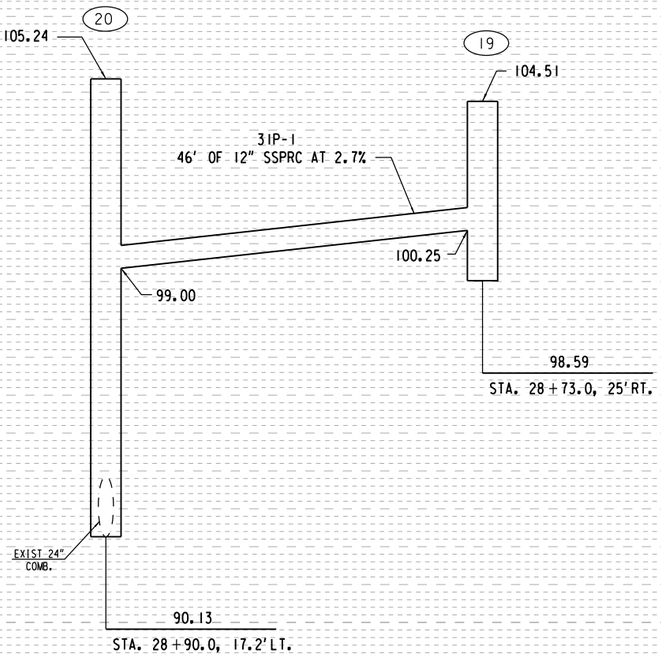
LEGEND

- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

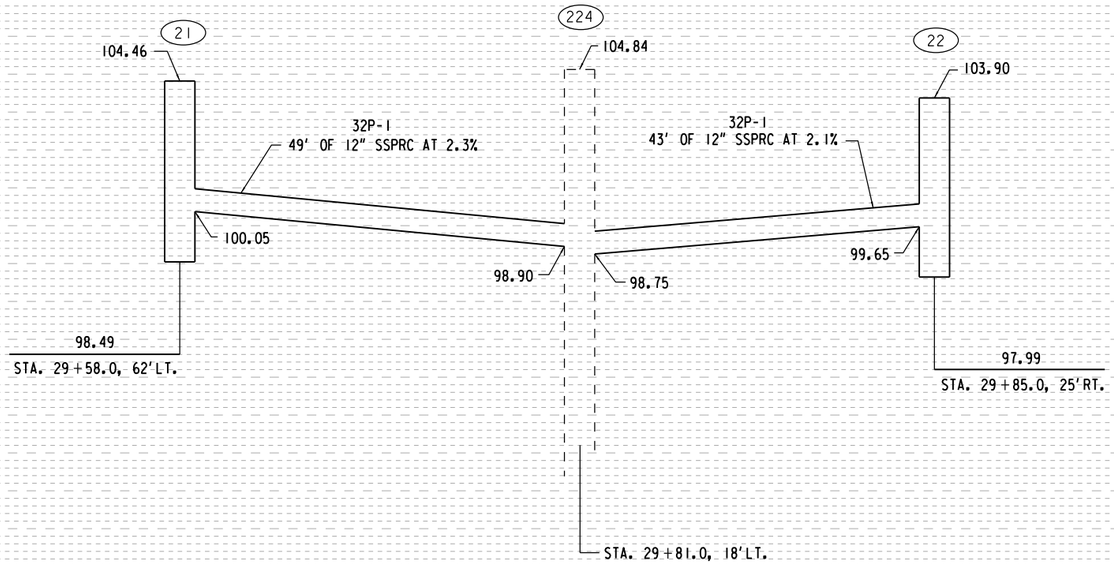
STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 81	E

FILENAME: W:\SPR\WISC_38-35\UTIL 28_34.DGN

REVISED DATE: 10-25-2017 BY JH



(LOOKING EASTERLY)



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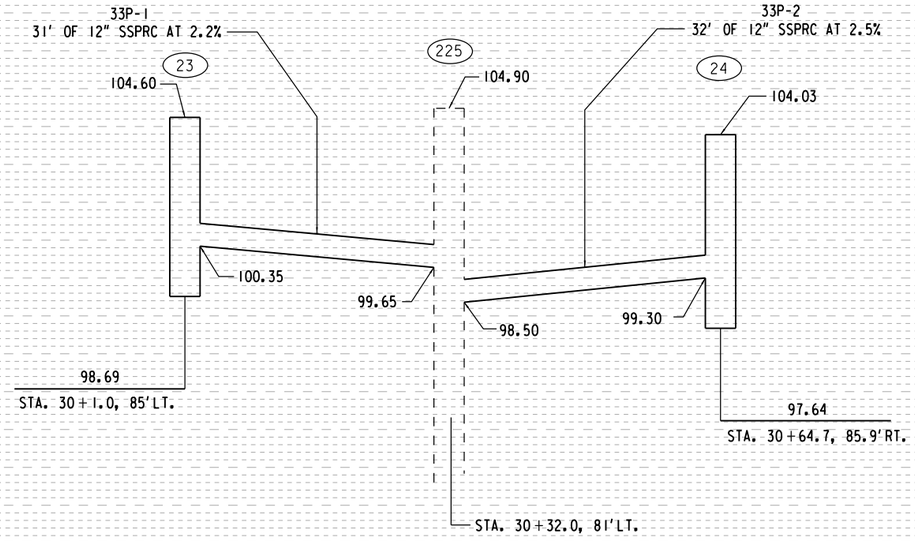
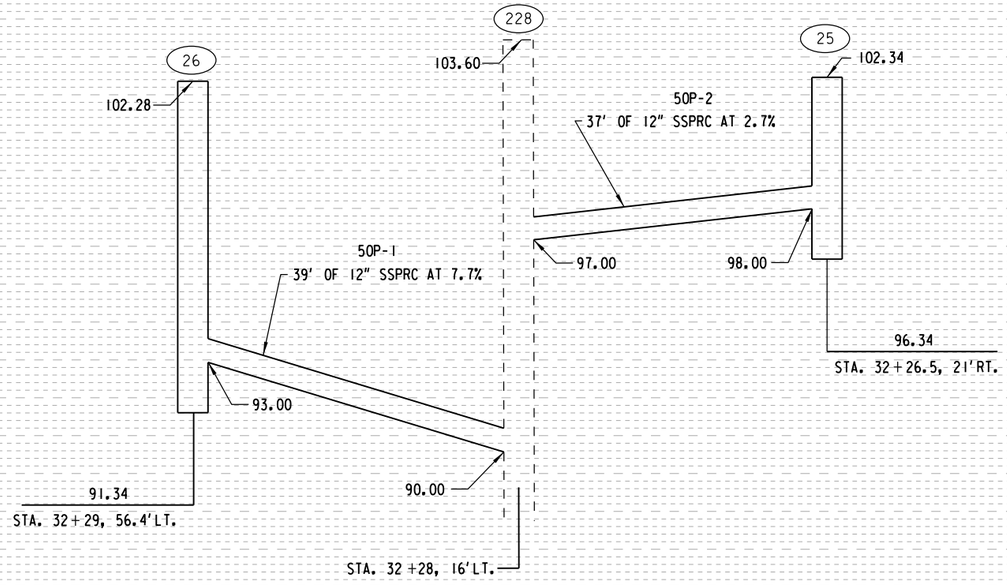


(LOOKING NORTHERLY)



(LOOKING EASTERLY)

2

N

WEST WISCONSIN AVENUE

N. 37TH ST.

202+29.2, 7' RT
45A INLET
9

203+99, 7' RT
45A INLET
10

304+29.6, 60.1' LT
45A INLET
12

304+97.5, 22' RT
45A INLET
14

304+36, 7' LT
45A INLET
15

20P-1

21P-1

21P-2

23P-1

23P-2

MATCH POINT

MIDAS #3706

DEAD END ALLEY

CAUTION

NORTH 36TH STREET

LEGEND

EXISTING INLET

PROPOSED INLET

PROPOSED STORM SEWER PIPE

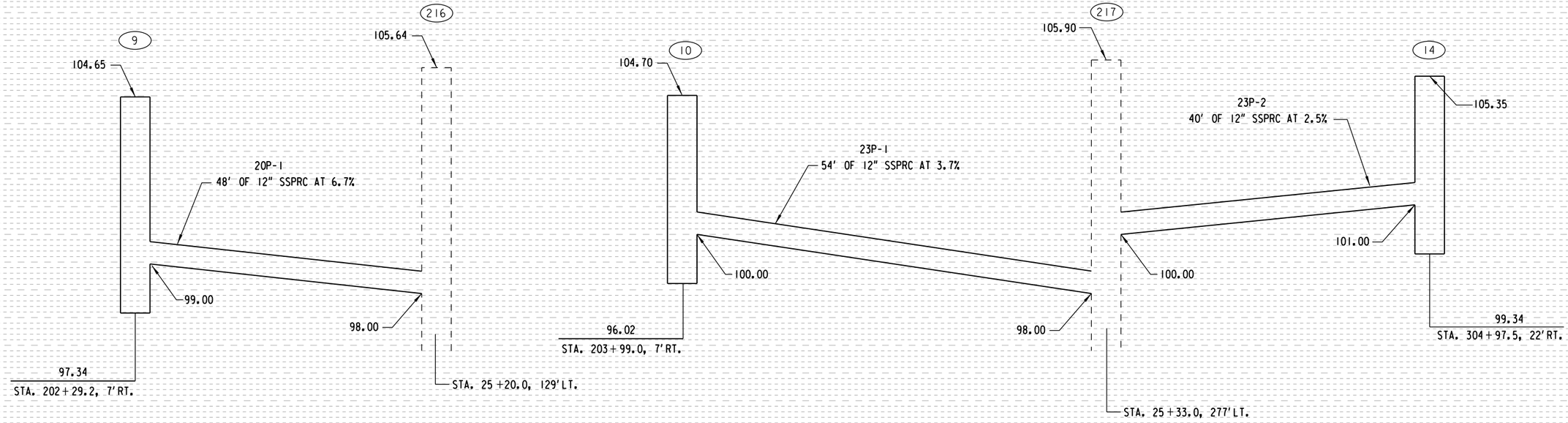
NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN FEBRUARY OF 2015. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 30'	SHEET NO: 83	E

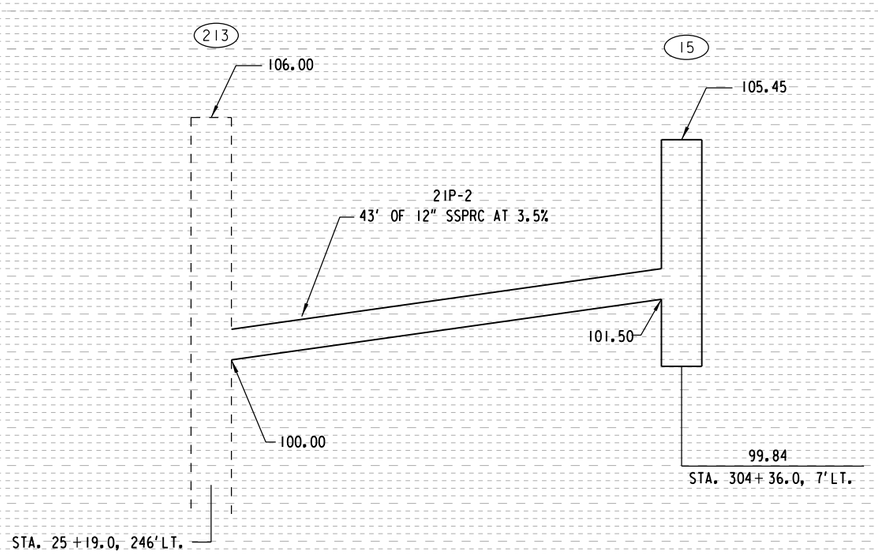
FILENAME: W:\SPR\WISC_38-35\UTIL 200_206.DGN

REVISED DATE: 10-25-2017 BY JH

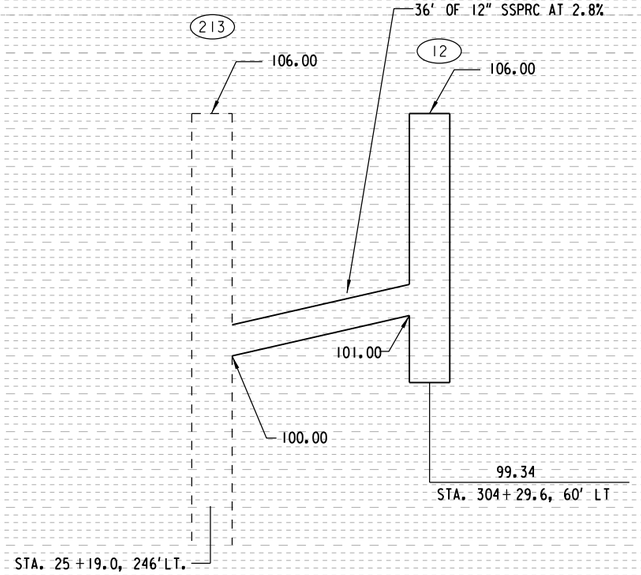


(LOOKING NORTHERLY)

(LOOKING NORTHERLY)



(LOOKING NORTHERLY)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 84	E

FILENAME: W:\SPR\WISC_38-35\UTIL 200_206.DGN

REVISED DATE: 10-25-2017 BY JH

WEST WISCONSIN AVENUE

W. WISCONSIN AVE. T/L

N. 37TH ST.

NORTH 36TH STREET

MATCH POINT

MATCH POINT

302+60.9, 60' LT
45A INLET

CAUTION

LEGEND

EXISTING INLET

PROPOSED INLET

PROPOSED STORM SEWER PIPE

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

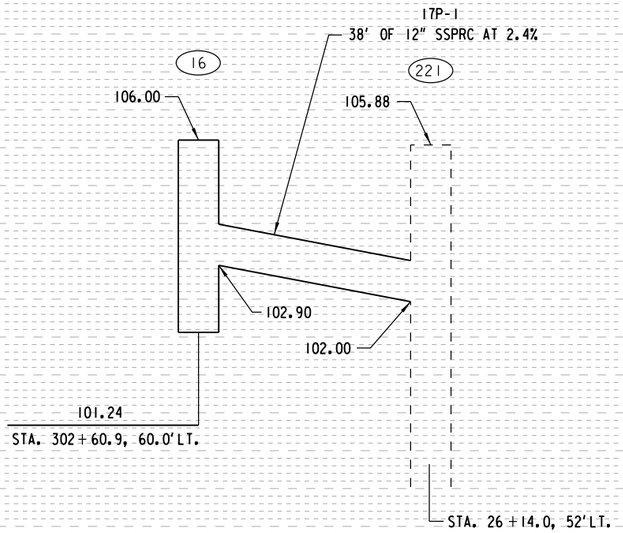
THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN FEBRUARY OF 2015. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 30'	SHEET NO: 85	E

FILENAME: W:\SPR\WISC_38-35\UTIL 300_306.DGN

REVISED DATE: 10-25-2017 BY JH

2



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 86	E

FILENAME: W:\SPR\WISC_38-35\UTIL 300_306.DGN

REVISED DATE: 10-25-2017 BY JH

HOUSE #3424 | RANDOLPH GRAND MANOR #3414 | OFFICE BLDG. #3400 | HOUSE (LAW OFFICE) #3316 | VACANT #3300 | APTS. #3212 | HOUSE #3212

WEST AVENUE WISCONSIN

N. 34TH ST.

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA.105+63.50

29 107+38, 77.3' LT 44A INLET

27 107+12.7, 55' LT 44A INLET

30 107+68, 77.8' LT 44A INLET

31 109+75, 55' LT 44A INLET

32 109+77, 21' RT 44A INLET

28 107+17, 21' RT 44A INLET

CAUTION

52P-1 52P-2

129 131 230 132 133

51P-1 54P-1

229 231 232

51P-2 54P-2

130 134

105 +50 106 +50 107 +50 108 +50 109 +50 110 +50 111

T/L R/W

105+63.5

N

LEGEND

EXISTING INLET

PROPOSED INLET

PROPOSED STORM SEWER PIPE

BW HYD S/S
STA. 06+22,23' RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2012. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

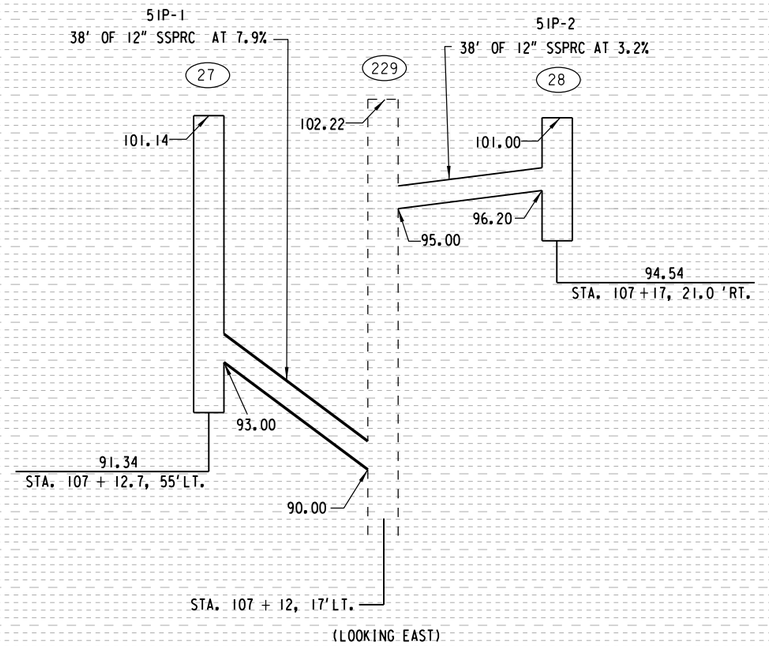
#3401 MARQUETTE UNIVERSITY HIGH SCHOOL

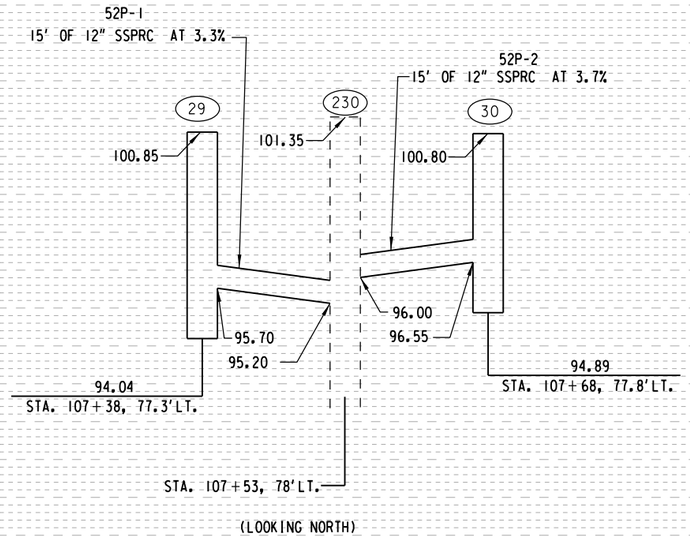
BW HYD S/S
STA. 10+00,23' RT.(NW BOLT)
ELEV. 101.60

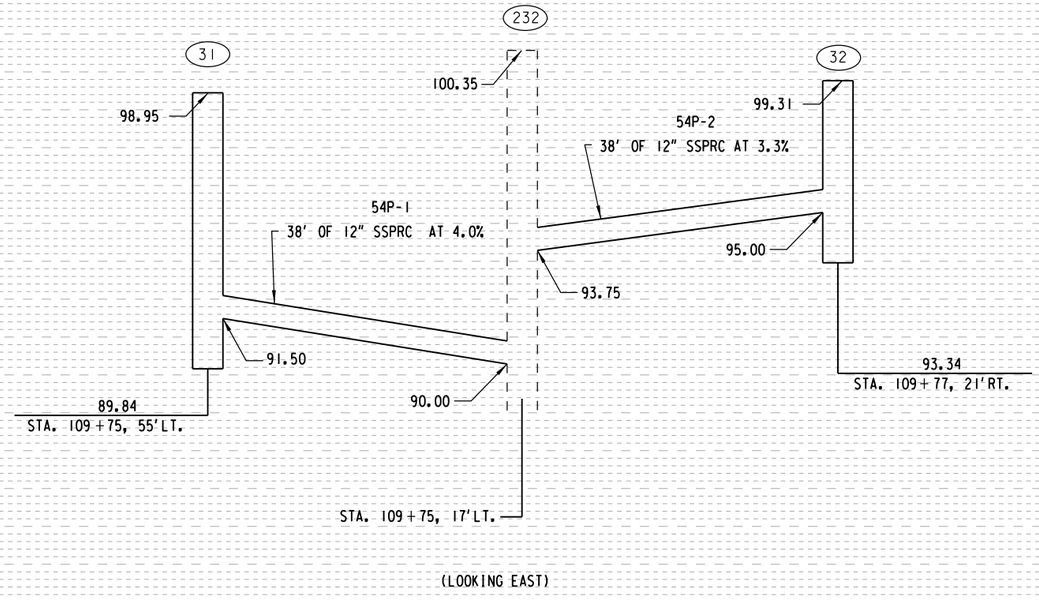
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 87	E

FILE NAME = W:\SPR\WISC_20-35\UTIL05-11.DGN

REVISED DATE: 10-25-2017 BY BB







STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 88	E

FILENAME: W:\SPR\WISC_20-35\UTIL05-11.DGN

REVISED DATE: 09-21-2017 BY JH

2

HUDSON APTS. #3200

APTS. #3120-3128

AVENUE WEST APTS. #3100

HOUSE #3046

HOUSE #3034

WEST

WISCONSIN

AVENUE

N. 32ND ST.

N. 31ST ST.

N

34 112+0.7, 77.3' LT 44A INLET

33 111+74.5, 55' LT 44A INLET

35 112+31.1, 76.8' LT 44A INLET

37 113+40, 55' LT 44A INLET

39 115+31.1, 77' LT 44A INLET

40 115+61.1, 77' LT 44A INLET

41 115+95, 55' LT 44A INLET

36 112+95, 21' RT 44A INLET

38 113+95, 21' RT 44A INLET

42 116+95, 21' RT 44A INLET

61P-1 61P-2

64P-1 64P-2

60P-1

63P-1

65P-1

62P-1

63P-2

FIBER OPTIC

CAUTION

BUS SHELTER

BUS STOP

R/W

111 T/L +50 112 +50 113 +50 114 +50 115 +50 T/L 116 +50 117

1/4 SEC LINE

LEGEND

EXISTING INLET

PROPOSED INLET

PROPOSED STORM SEWER PIPE

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2012. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

#3133 APTS.

#3127 HOUSE

#3121 HOUSE

#3111 HOUSE (LAW OFFICE)

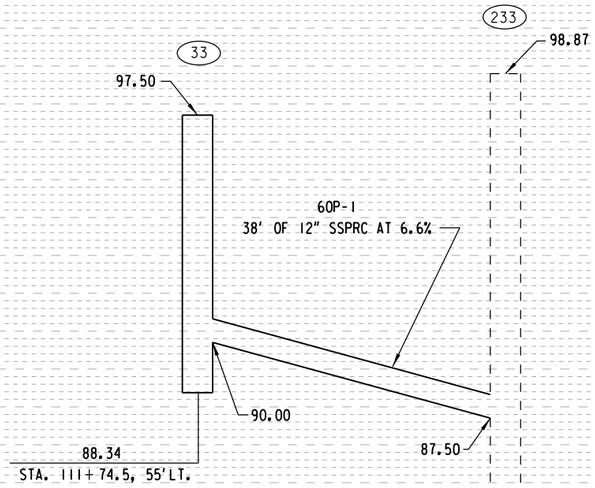
BM HYD SE CORNER
N.32ND ST. & W. WISCONSIN AVE.
STA. 113+60, 25' RT. (NW BOLT)
ELEV. 98.71

BM HYD SE C
N.31ST ST.
STA. 116+85.
(TOP OF OPE
ELEV. 100.

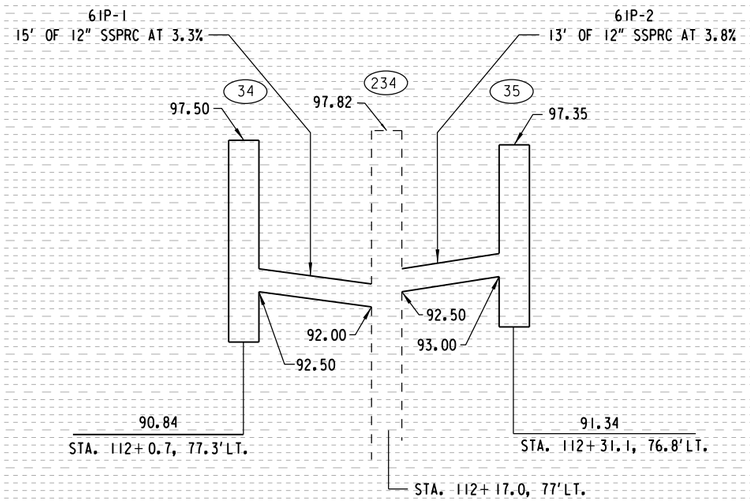
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 89	E

FILE NAME = W:\SPR\WISC_20-35\UTIL11-17.DGN

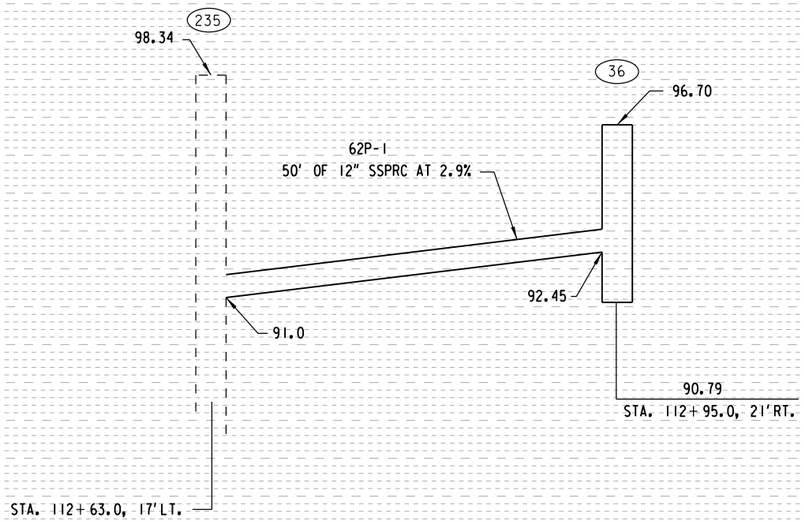
REVISED DATE: 10-25-2017 BY BB



(LOOKING EASTERLY)



(LOOKING NORTHERLY)



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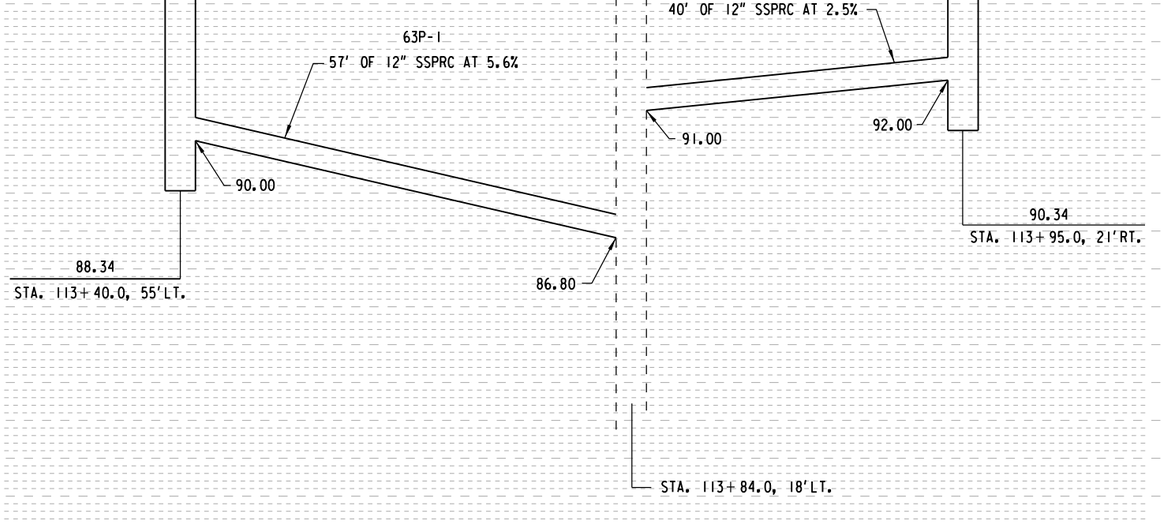
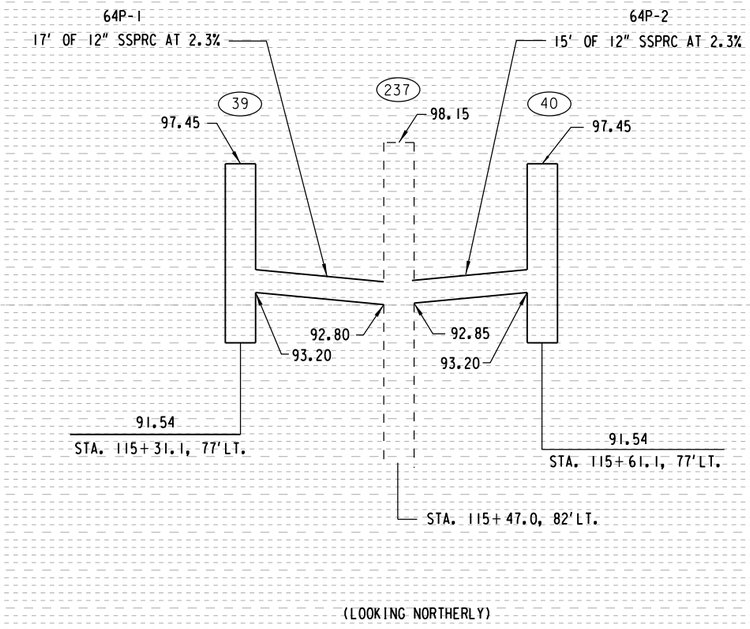
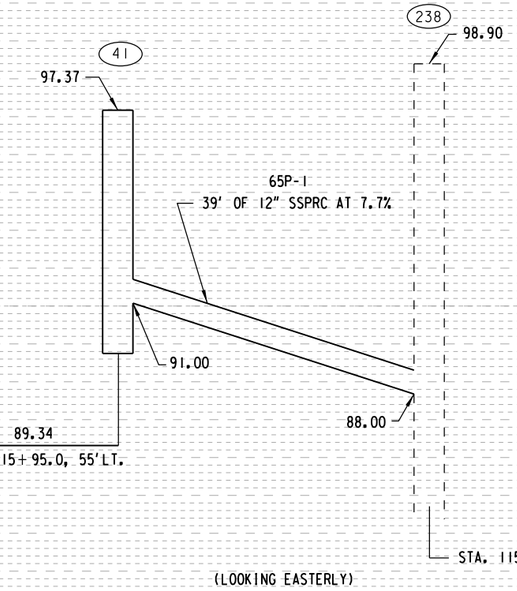


(LOOKING EASTERLY)





STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 91	E

FILENAME: W:\SPR\WISC_20-35\UTIL11-17.DGN

REVISED DATE: 01-26-2017 BY TJK

WEST AVENUE

WISCONSIN AVENUE

N. 29TH ST.

N. 30TH ST.

LUTHERAN CHURCH #3022

TRIPOLI SHRINE #3000

GRAND ANN APTS. #2904

APTS. #2848

#3035 APTS.

#3001 VILLAGE INN HOTEL

#2929 PLAZA WEST APTS.

#2919 AVENUE TOWER APTS.

#2905 APTS.

117+25, 55' LT 44A INLET (43)

120+24, 55' LT 44A INLET (44)

121+84.5, 77' LT 44A INLET (46)

122+14.6, 72' LT 44A INLET (47)

122+40, 55' LT 44A INLET (48)

116+95, 21' RT 44A INLET (42)

120+25, 21' RT 44A INLET (45)

77P-1

77P-2

70P-1

73P-1

73P-2

78P-1

BM HYD SE CORNER
N. 31ST ST. & W. WISCONSIN AVE.
STA. 116+85, 23' RT.
(TOP OF OPERATING NUT)
ELEV. 100.66

BM HYD SE CORNER
N. 30TH ST. & W. WISCONSIN AVE.
STA. 120+15, 24' RT. (NW BOLT)
ELEV. 103.37

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

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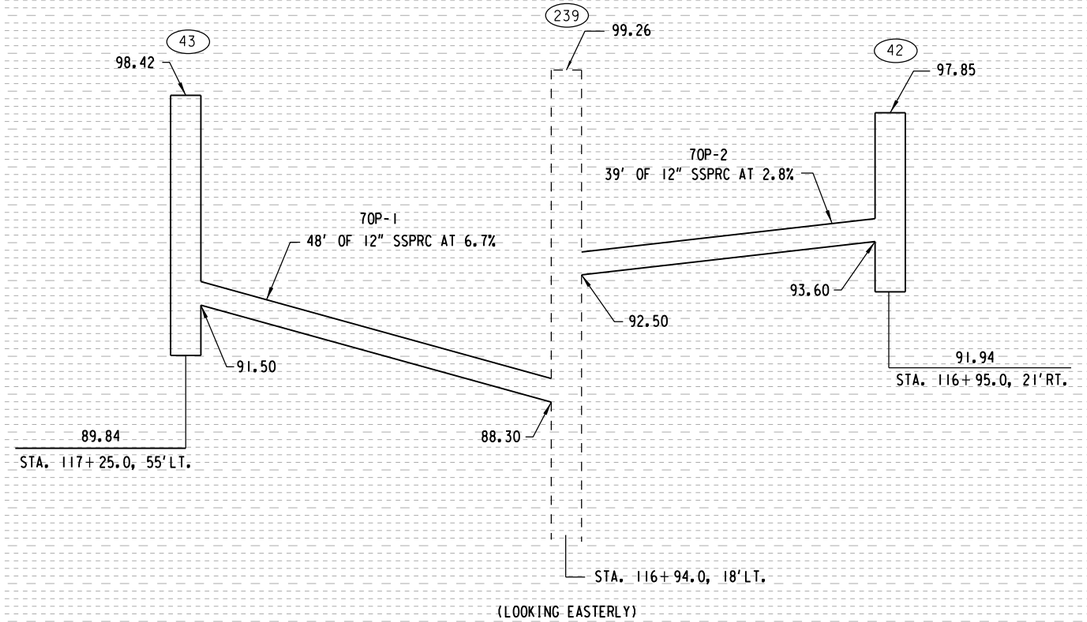
LEGEND

- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

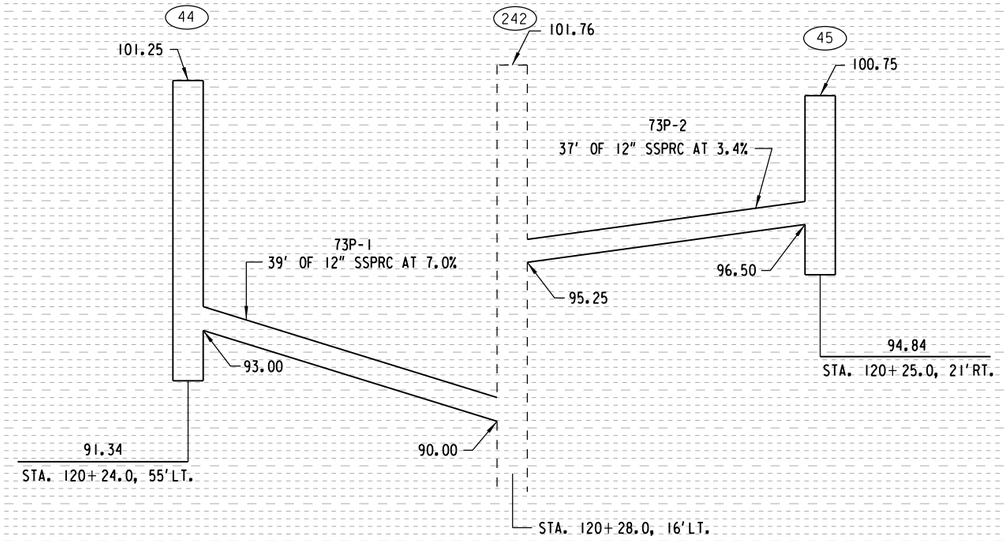
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 92	E

FILE NAME = W:\SPR\WISC_20-35\UTIL17-23.DGN

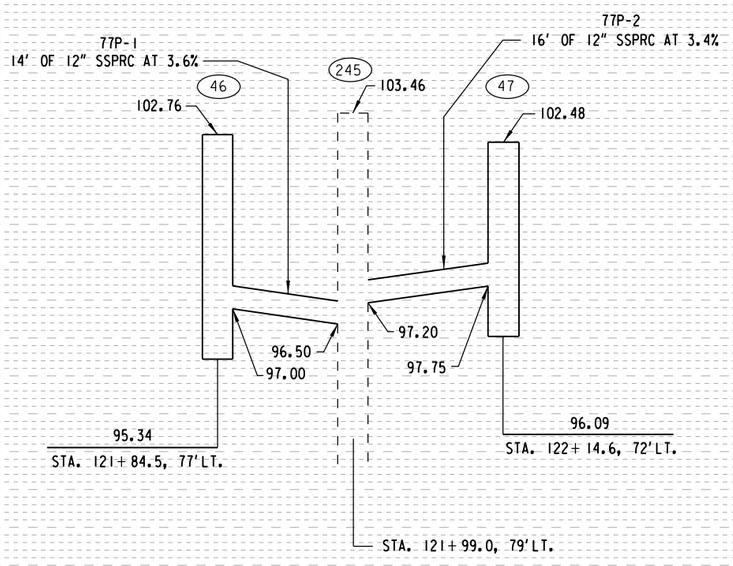
REVISED DATE: 10-25-2017 BY BB



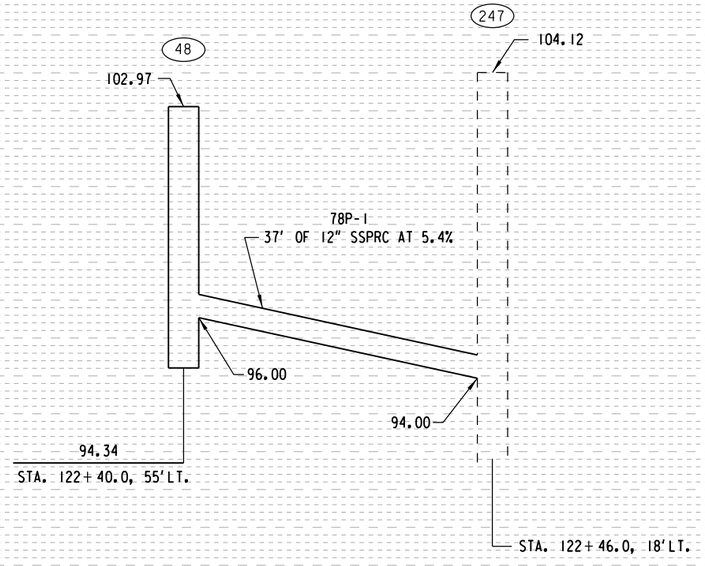
(LOOKING EASTERLY)



(LOOKING EASTERLY)



(LOOKING NORTHERLY)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 93	E

2

WEST WISCONSIN AVENUE

N. 28TH PL.

N. 28TH ST.

WISCONSIN AVENUE ELEMENTARY SCHOOL
#2700-2708

BM: STD #150 NW CORNER
N. 27TH ST. & W. WISCONSIN AVE.
7' W. & 21' N. OF CURBS
IN WATER VALVE BOX. STA. 120+76, 32' LT.
ELEV = 109.836

N

STA. 126+75.0, 93'LT.

HOUSE #2838-2840

HOUSE #2830-2836

ST. PAUL'S CHURCH
#2812-2820

CAUTION

END CONSTRUCTION
STA. 127+39.0 T/L

83P-1

83P-2

51 124+14.2, 82.5'LT
44A INLET

52 124+38.3, 82.5'LT
44A INLET

54 124+56, 55'LT
44A INLET

55 126+38.6, 78'LT
44A INLET

57 126+74.8, 94.5'LT
44A INLET

58 127+0.5, 55.8'LT
44A INLET

87P-2

87P-1

82P-1

86P-1

84P-1

80P-1

80P-2

86P-2

49 123+26.5, 14'LT
44A INLET

50 123+35, 21'RT
44A INLET

53 124+55, 21'RT
44A INLET

56 126+49, 21'RT
44A INLET

252 156 157 159 160 256 162 163 251 249 250 254 253 255 155 158 161

123 +50 T/L 124 +50 125 +50 126 +50 127 +50 128 +50 T/L 129

407 408

BRICK PILLARS & IRON FENCE

CONC. PAVEMENT "2013"

ASPH. PARKING

LEGEND

EXISTING INLET

PROPOSED INLET

PROPOSED STORM SEWER PIPE

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

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#2829 OFFICE BLDG.

#2801 OFFICE BLDG.

N. 29TH ST.

BM HYD SE CORNER
N.29TH ST. & W. WISCONSIN AVE.
STA. 123+30.23'RT.(NW BOLT)
ELEV. 105.77

#2733 TRAVIS ACADEMY

#2729-2731

#2727-2725 BAR

#2719 BILLIARDS

#2709-2711 FOR LEASE

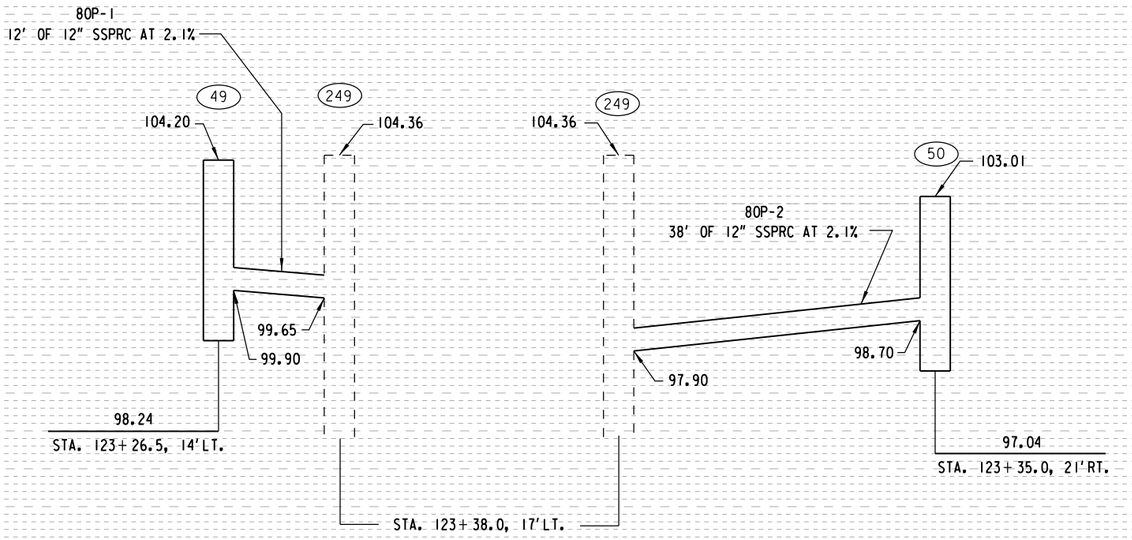
N. 28TH ST.

BM HYD SE CORNER
N.28TH ST. & W. WISCONSIN AVE.
STA. 126+40.24'RT.(NW BOLT)
ELEV. 108.84

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 94	E

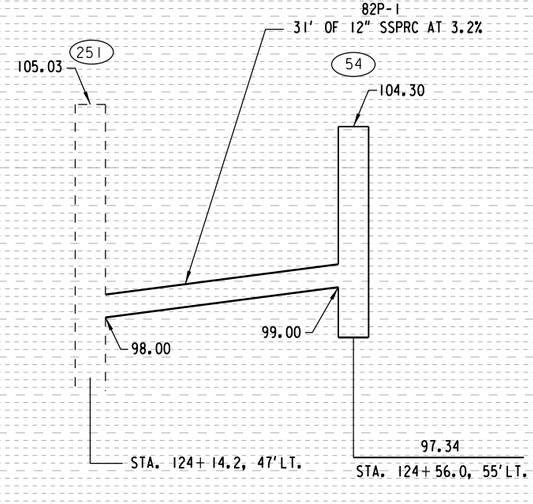
FILE NAME = W:\SPR\WISC_20-35\UTIL23-29.DGN

REVISED DATE: 10-25-2017 BY BB

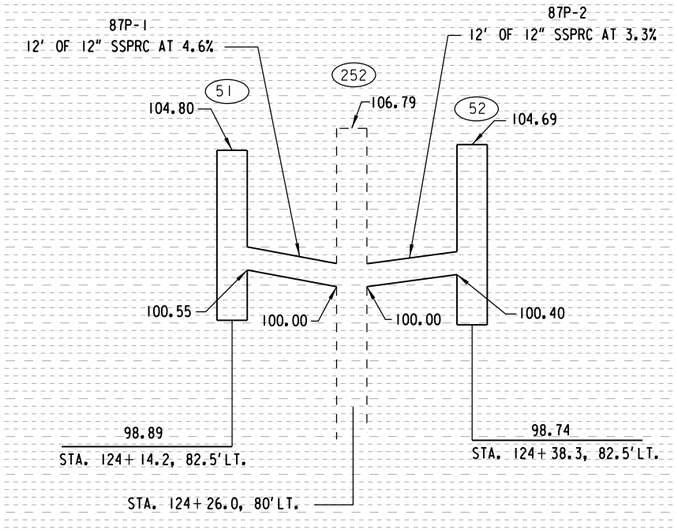


(LOOKING NORTHERLY)

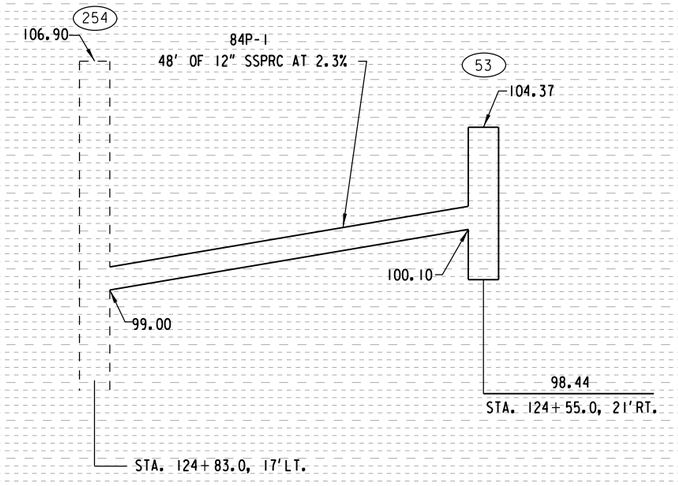
(LOOKING EASTERLY)



(LOOKING NORTHERLY)

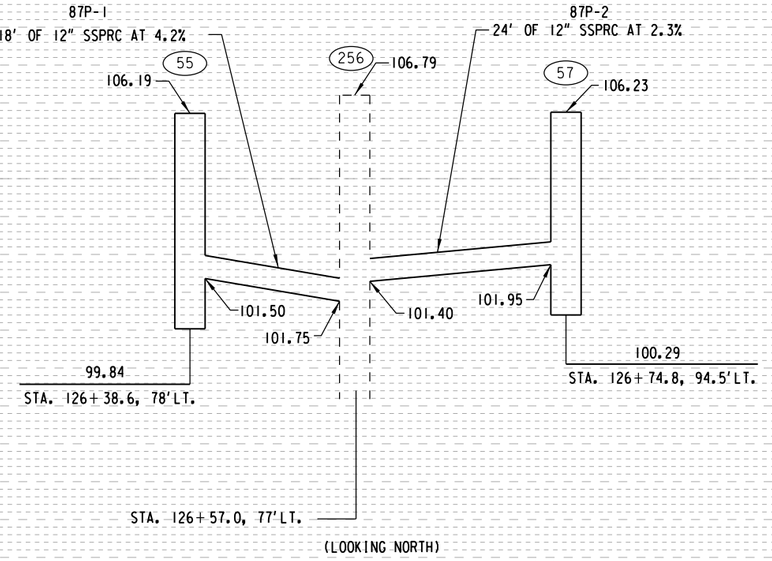


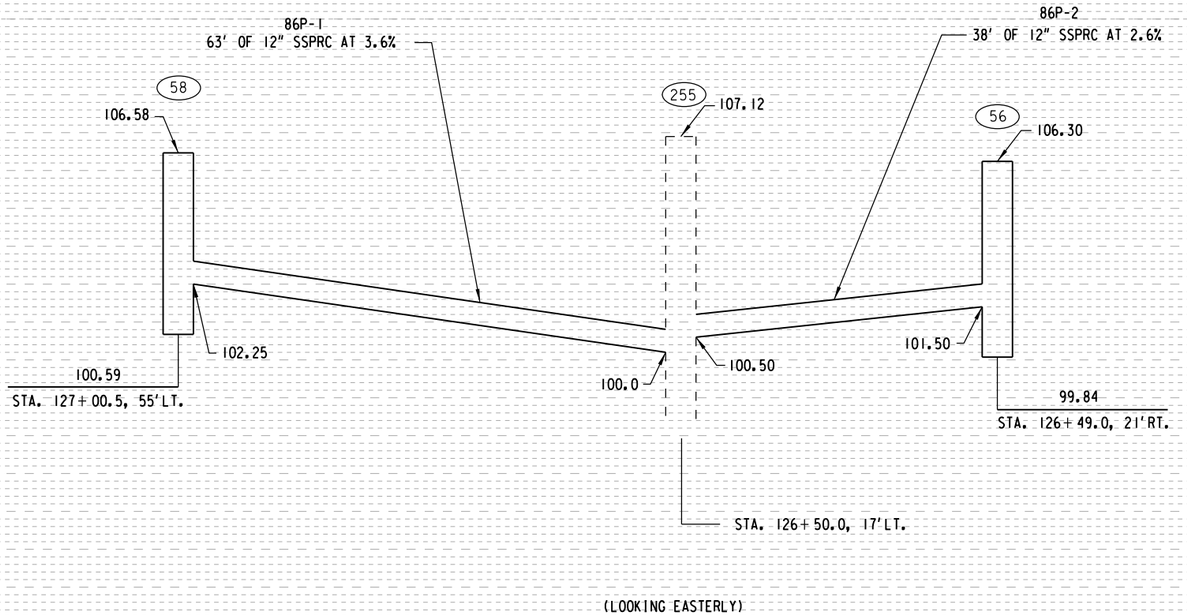
(LOOKING NORTH)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 95	E





STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 96	E

FILENAME: W:\SPR\WISC_20-35\UTIL23-29.DGN

REVISED DATE: 07-24-2017 BY ML

WEST WISCONSIN AVENUE

N

CITY OF MILWAUKEE #2630 | APTS. #2620-2622 | APTS. #2616 | RED CROSS #2602 | RETAIL STORES #2532 | #2524

AVE. 20+76, 32' LT.

BRICK PILLARS & IRON FENCE

CAUTION

133+95.5, 74.5' LT
44A INLET
59

134+18, 55' LT
44A INLET
62

134+15, 14' LT
44A INLET
60

134+14, 21' RT
44A INLET
61

258 164 91P-1

167 93P-1

259 93P-2

166

165 93P-3

257 NOT SHOWN ON XSEC

129 | 130 | 131 | 132 | 133 | 134 | 135 (+50 between)

130 MON. 179° 51' 07"

T/L

1/4 SEC LINE

BEGIN CONSTRUCTION
STA. 133+12.0 T/L

ABANDONED

CONC. PAVEMENT "2013"

ABANDONED CONC. PAVEMENT "2013"

N. 27TH ST.

N. 26TH ST.

#2709-2711 FOR LEASE

#2701-03 MARKET

#2525 US BANK

ASPH. PARKING

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE. #2601-2611

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LEGEND

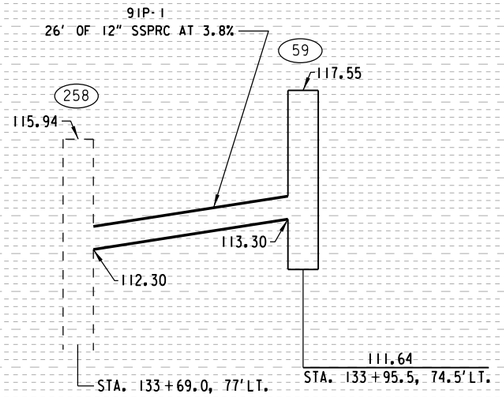
- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

BM HYD SE CORNER
N.26TH ST. & W. WISCONSIN AVE.
STA. 133+91.36' RT.(NW BOLT)
ELEV. 117.63

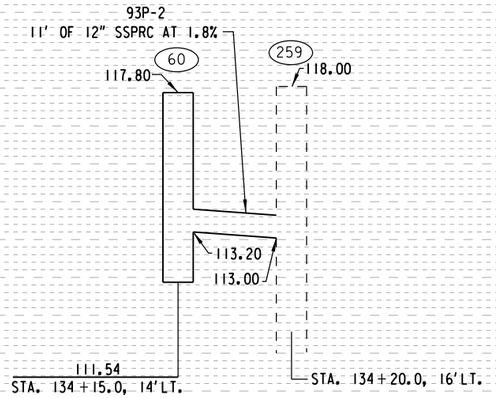
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 97	E

FILE NAME = W:\SPR\WISC_20-35\UTIL29-35.DGN

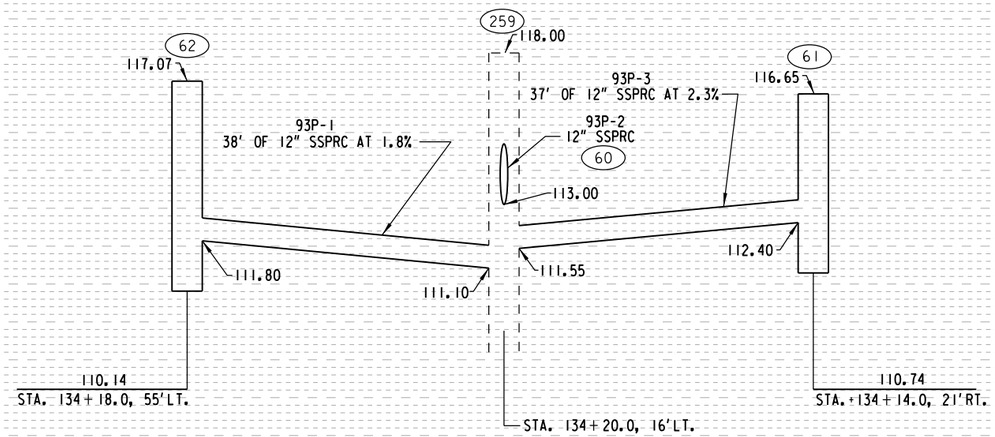
REVISED DATE: 10-25-2017 BY BB



(LOOKING NORTHERLY)



(LOOKING NORTHERLY)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 98	E

FILENAME: W:\SPR\WISC_20-35\UTIL29-35.DGN

REVISED DATE: 09-21-2017 BY JH

2

WEST

WISCONSIN AVENUE

#2524-2526 APTS. #2518 ABAND. GAS STATION #2502-2506 GRAND AVENUE SCHOOL #2430

N

CAUTION

102P-1

102P-2

63 137+22.5, 80.2' LT 44A INLET

64 137+54.5, 81.2' LT 44A INLET

66 137+72, 55' LT 44A INLET

65 137+71.5, 14' LT 44A INLET

67 137+75, 21' RT 44A INLET

68 140+57, 55' LT 44A INLET

69 140+69, 21' RT 44A INLET

103P-1

105P-1

105P-2

107P-1

107P-2

168 169 260 261 262 263 264 265 266 267 267A 170 171 172 173 174 175 176 177

135 136 137 138 139 140 141 +50 T/L

R/W

CONC PARKING CONC. CONC WALL LAWN 5CR CW STONE SLAB POST CONC PHONE BUS SHELTER PED CURB

CUC CMB TE&ES G W E ABANDONED WEP??? 5" PLANTER 24" CMB 18" CMB 15" CMB 16" CMB 12" CMB 8" 10" 15" 16" 20" 24" 33' 34' 66' 6' 12' 18" 20' 29' 32' 60' 49' 67' 31.5' 22' 5' 6' 10' 20.3' 36' 35' 33' 2" 3" 4" 5" 6" 8" 12" 16"

NEW CONC CURB BUSHES CONC WALL ASPH. RAMP ASPH. PARKING WOOD BORDER CONC PILLARS BOULDERS BWK WALL CURB ENT CW ASPH LAWN STUMP BUSHES HIGH CW

*639 N. 25TH ST. METHODIST CHURCH

#2455 MC DONALDS

#2435 SHERION APTS.

#2425

N. 25TH ST.

BM HYD SE CORNER N.25TH ST. & W. WISCONSIN AVE. STA. 137+73.25' RT. (NW BOLT) ELEV. 122.57

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2012. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

LEGEND

EXISTING INLET

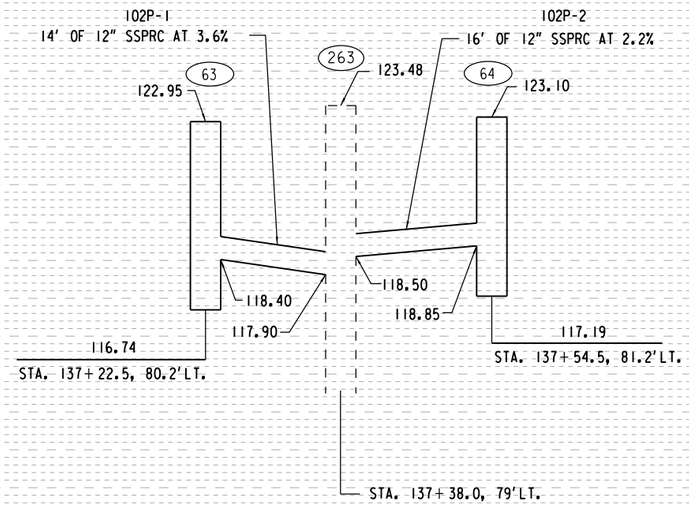
PROPOSED INLET

PROPOSED STORM SEWER PIPE

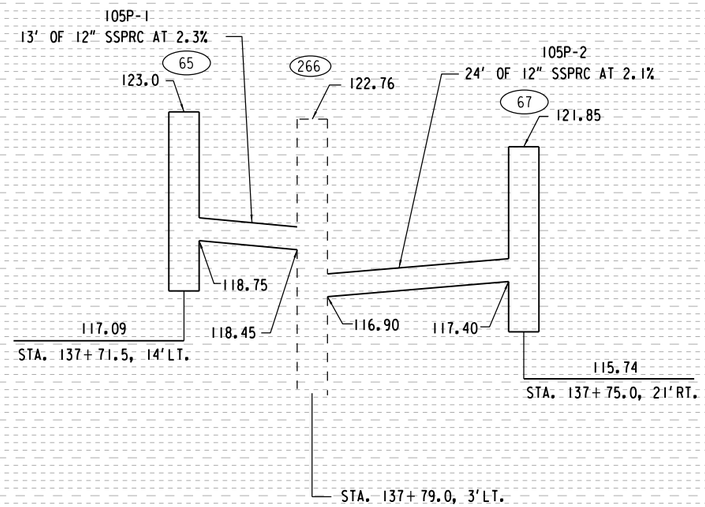
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 99	E

FILE NAME: W:\SPR\WISC_20-35\UTIL35-41.DGN

REVISED DATE: 10-25-2017 BY BB



(LOOKING NORTHERLY)



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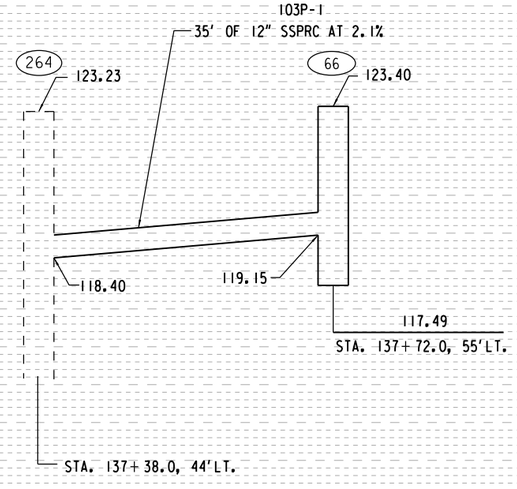
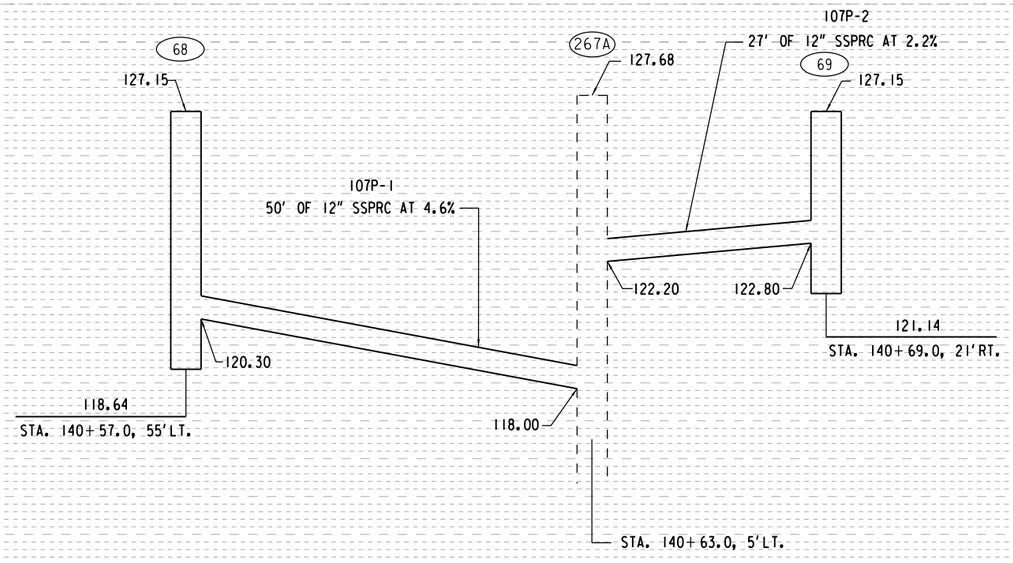


(LOOKING NORTHERLY)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 100	E

WEST

WISCONSIN

AVENUE

N

GRAND AVE. APTS. #2336

AMBASSADOR HOTEL #2308-2324

AVENUE MANOR APTS. #2224

AMBASSADOR HOTEL

STAMPED CONC PATIO

CAUTION

CAUTION 38KV

143+50, 55' LT
44A INLET
71

146+00, 55' LT
44A INLET
73

143+48, 21' RT
44A INLET
70

145+98.5, 21' RT
44A INLET
72

145+0.1, 17.1' LT
44A INLET
71A

269 178 182 270 271 180 272 274 179 181 268 273

112P-1 112P-2 113P-1 114P-1 114P-2

141 142 143 144 145 146 147 +50 T/L 1/4 SEC LINE

R/W

TE&ES CUC CMB ATC CONC ASPH ABANDONED FULL CW

(SOME PARKING)

ASPH. PARKING

#2401 RAVE/EAGLES

#2335 APTS.

#2323 SCRUB-A-DUB

#2311 WESTON APTS.

#2301-2305 AMBASSADOR INN

#2227 PARKING LOT FOR AMBASSADOR INN

N. 24TH ST.

N. 23RD ST.

LEGEND

EXISTING INLET

PROPOSED INLET

PROPOSED STORM SEWER PIPE

BM HYD SE CORNER
N.24TH ST. & W. WISCONSIN AVE.
STA. 143+09.39' RT.(NW BOLT)
ELEV. 129.85

BM HYD SE CORNER
N.23RD ST. & W. WIS
STA. 146+73.25' RT.(
ELEV. 129.85

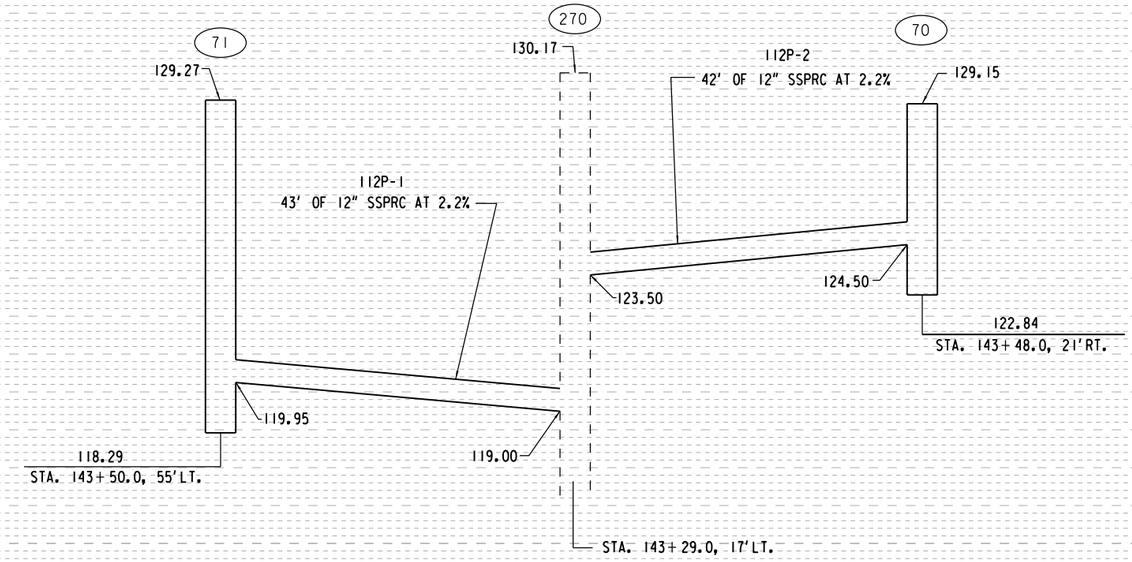
NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2012. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

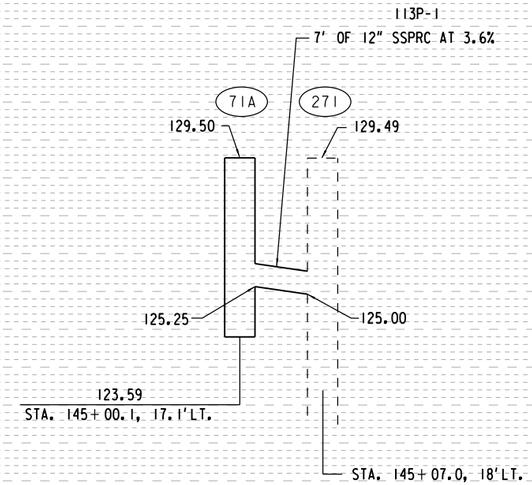
STATE PROJECT NUMBER 2190-00-70	HWY: USH 18	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 101 E

FILE NAME = W:\SPR\WISC_20-35\UTIL41-47.DGN

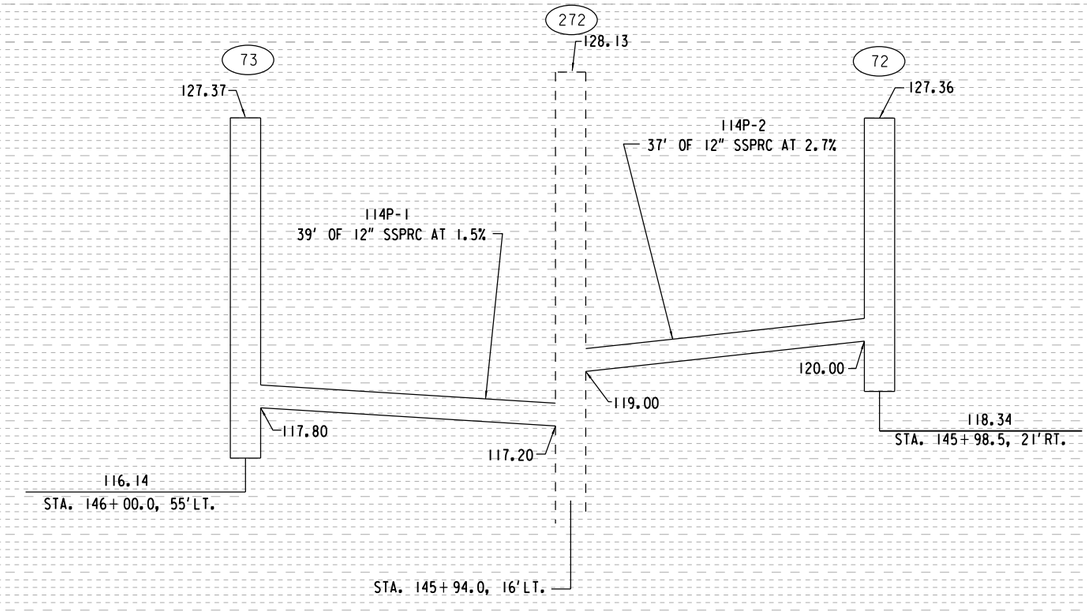
REVISED DATE: 10-26-2017 BY BB



(LOOKING EASTERLY)



(LOOKING NORTHERLY)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 102	E

FILENAME: W:\SPR\WISC_20-35\UTIL41-47.DGN

REVISED DATE: 07-24-2017 BY ML

2

AVENUE MANOR APTS. #2224 | MICHAELS RESTAURANT #2220 | TACO BELL #2210 | BMO BANK #2120

WEST | N. 22ND ST. | WISCONSIN | AVENUE | N. 21ST ST.

N

74 148+91,55' LT 44A INLET

278

79 151+91,55' LT 44A INLET

184 122P-1

148+95,20' LT 44A INLET 75

77 151+07,17' LT 44A INLET

80 151+92.4,20' LT 44A INLET

188 127P-1

183 277 122P-2

279 186 189

147 T/L +50 275 148 276 +50 149 +50 280 150 +50 151 281 +50 282 152 T/L +50 153

122P-3 185

127P-3 187

76 148+95,21' RT 44A INLET

151+80,21' RT 44A INLET 78

LEGEND

- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

#2227 PARKING LOT FOR AMBASSADOR INN | #2217 APTS. | #2207 PLANNED PARENTHOOD | #2133 CHURCH | #2121 VICTORY CHRISTIAN ACADEMY | #2111-2115 APTS. | #2101 APTS. | #2051 LAW FIRM

BM HYD SE CORNER
23RD ST. & W. WISCONSIN AVE.
STA. 146+73,25'RT.(WNW BOLT)
ELEV. 129.85

BM HYD S/S W. WISCONSIN AVE.
STA. 149+58,25'RT.(WNW BOLT)
ELEV. 125.85

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

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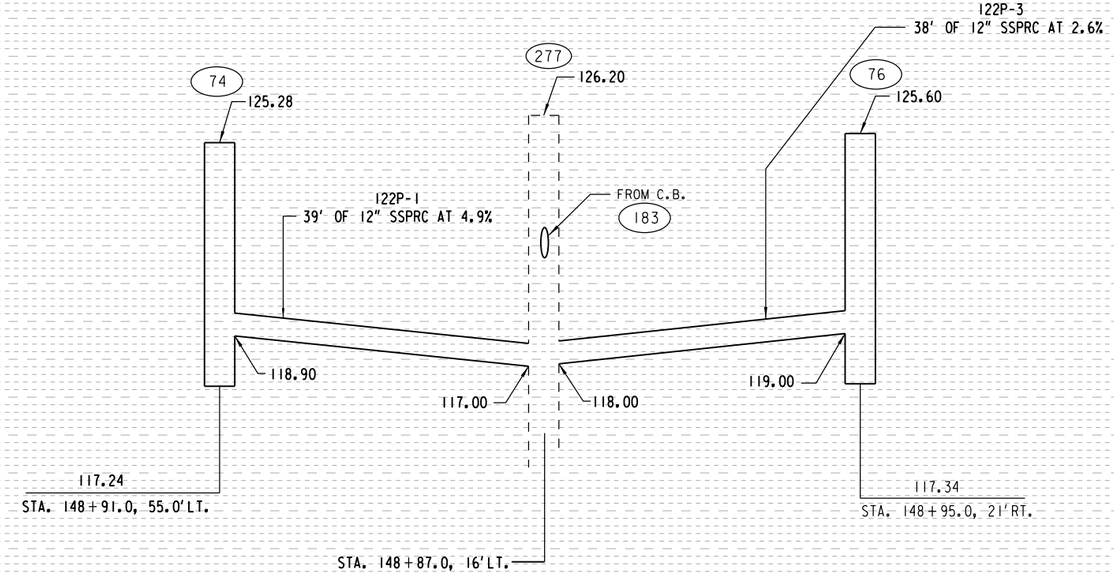
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 103	E

FILE NAME = W:\SPR\WISC_20-35\UTIL47-53.DGN

REVISED DATE: 10-25-2017 BY BB



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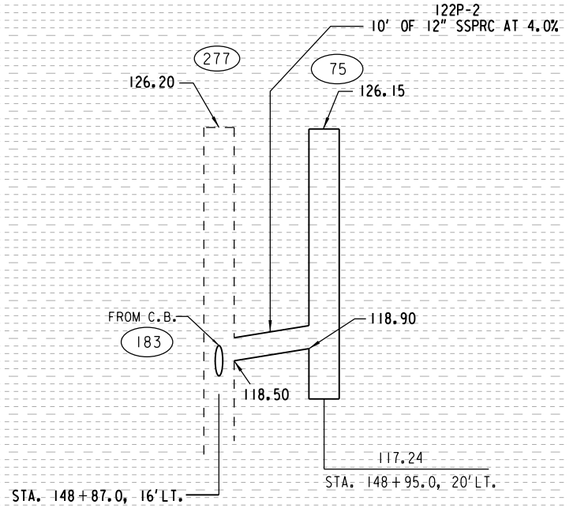
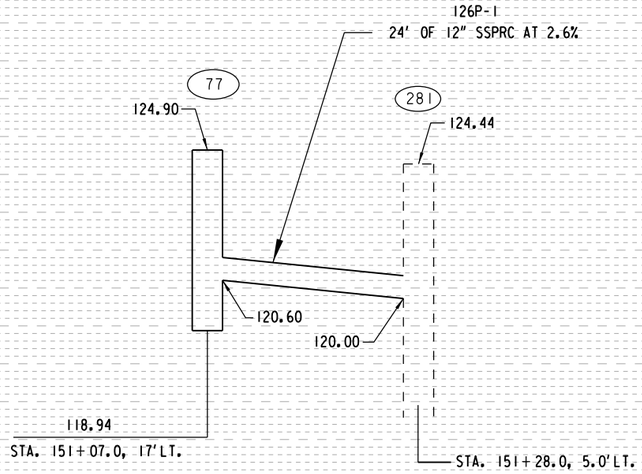
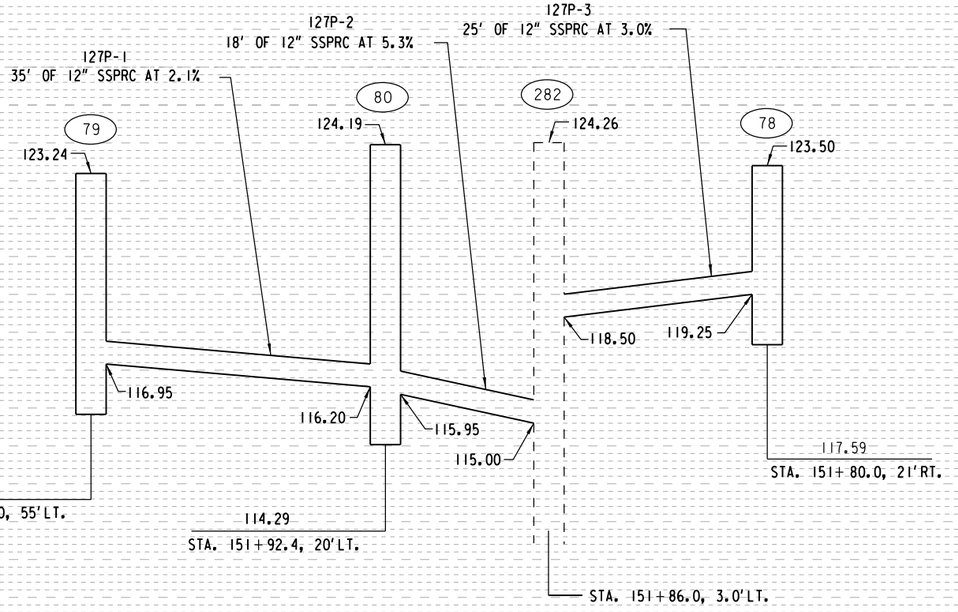


(LOOKING NORTHERLY)



(LOOKING NORTHERLY)



(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 104	E

2

WEST AVENUE

WISCONSIN

N

BLDG. #2040

PABST MANSION #2000

P.L.

END PROJECT STA.156+80.00 T/L

CAUTION

82 155+33,55' LT 44A INLET

191 131P-1

83 155+83,14' LT 44A INLET

192 132P-1

283 130P-1

284

285 132P-2

190

193

81 154+20.5,21' RT 44A INLET

84 155+90,21' RT 44A INLET

153 +50 154 +50 155 +50 156 +50 157

T/L

MON.

1/4 SEC LINE

R/W

LAWN

CONC.

ASPH.

CONC. RET. WALL

ASPH. DWY.

CONC. DWY. CONC. PILLAR

BIKE RACK

ST LIGHT BOX

CUC

CMB

CW

FULL CW

ASPH. PARKING

WOODRAMP

2CR

ASPH. ON CONC.

BUSH

MEP

TEL

#2029-2037 MARYLAND COURTS APTS.

#2017-2023

#2009-2011

#2001 FUNERAL HOME

BM HYD S/S W. WISCONSIN AVE. STA. 152+70,25'RT.(NW BOLT) ELEV. 123.65

BM HYD SW CORNER N.20TH ST. & W. WISCONSIN AVE. STA. 156+08,34'RT.(NW BOLT) ELEV. 113.72

N. 20TH ST.

LEGEND

- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE

NOTE: ALL PROPOSED LOCATIONS MEASURED TO CENTER OF STRUCTURE AT FACE OF CURB, WHERE APPLICABLE.

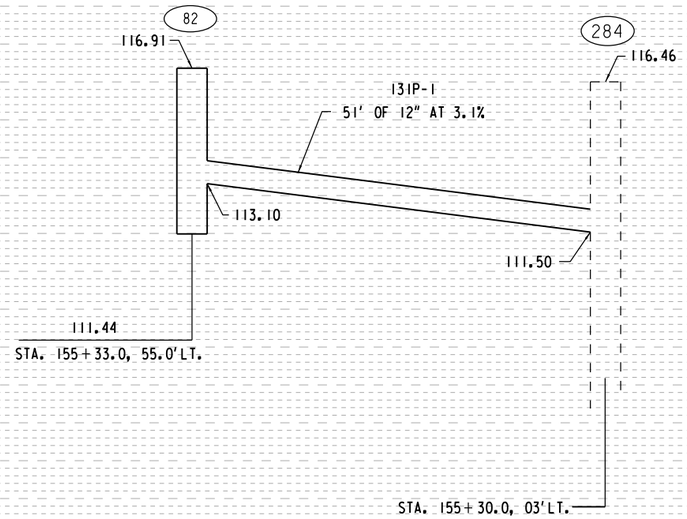
THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN DECEMBER OF 2012. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING & PERMITS SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PLAN	SCALE FEET 0' 40'	SHEET NO: 105	E

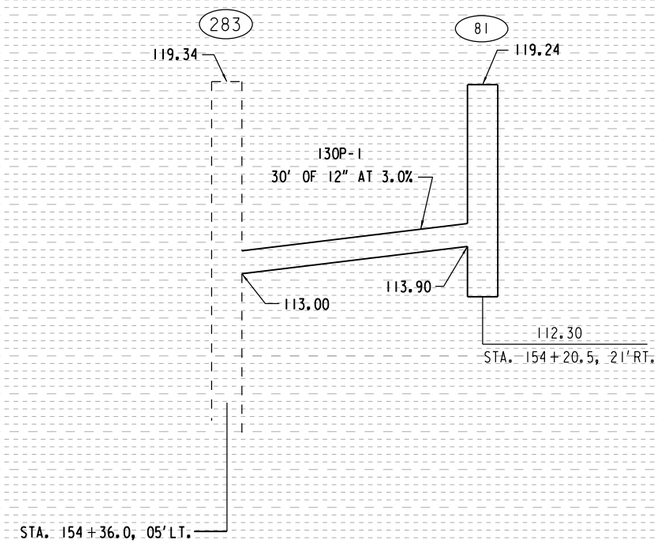
FILE NAME = W:\SPR\WISC_20-35\UTIL53-57.DGN

REVISED DATE: 10-25-2017 BY BB

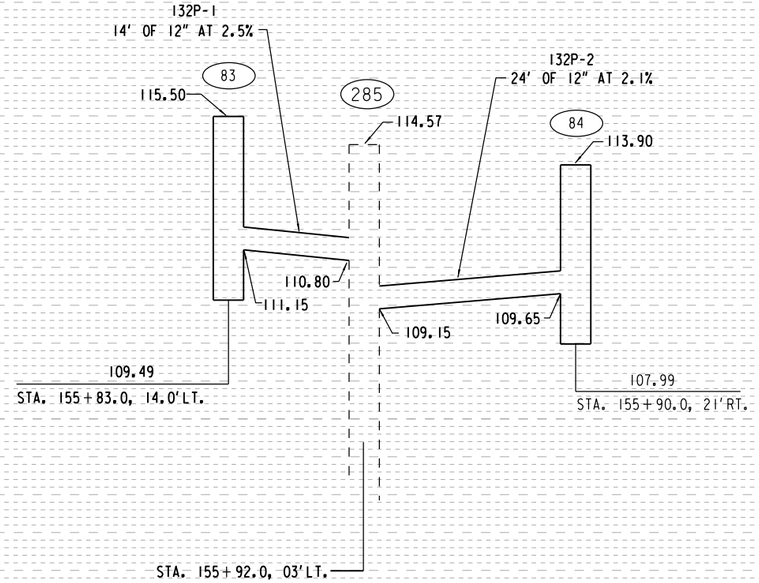
2



(LOOKING EASTERLY)



(LOOKING EASTERLY)

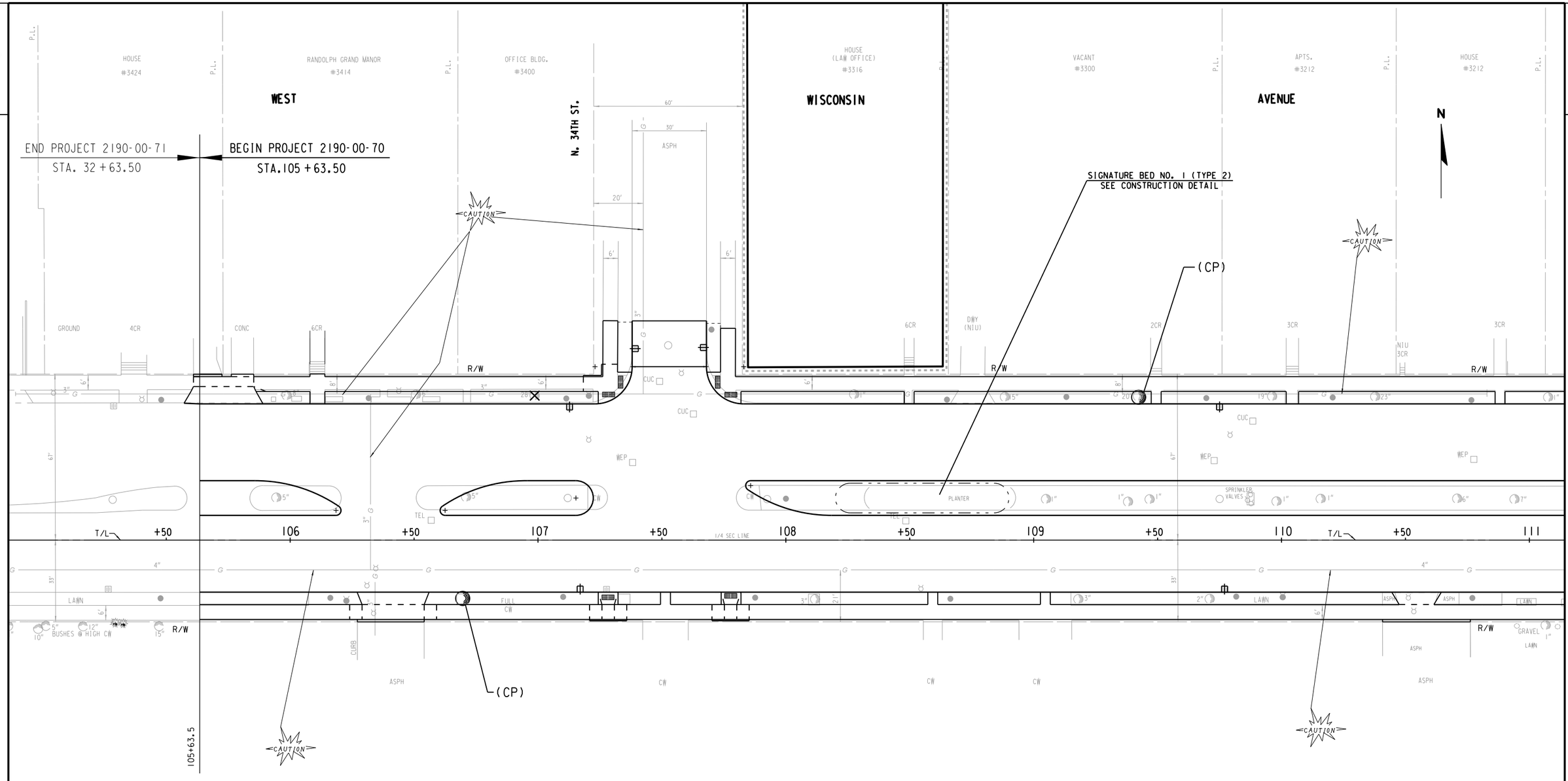


(LOOKING EASTERLY)

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SCALE FEET	SHEET NO: 106	E

FILENAME: W:\SPR\WISC_20-35\UTIL53-57.DGN

REVISED DATE: 7-24-2017 BY ML



LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

SHEET 1 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 107	E

FILE NAME: W:\SPR\WISC_20-35\PLANTING05-11.DGN

HUDSON APTS. #3200 | APTS. #3120-3128 | AVENUE WEST APTS. #3100 | HOUSE #3046 | HOUSE #3034

WEST | N. 32ND ST. | WISCONSIN | N. 31ST ST. | AVENUE

N

(SL) (CP) (CB) (RB) (CB) (RB) (CP)

111 T/L +50 112 +50 113 +50 114 +50 115 +50 116 +50 117

BUS SHELTER | BUS STOP | LANNON STONE | RR TIES | #3111 HOUSE (LAW OFFICE)

LEGEND:

- ◯ - PLANT NEW TREE (TYPE) SEE KEY
  ( )
- ✕ - REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

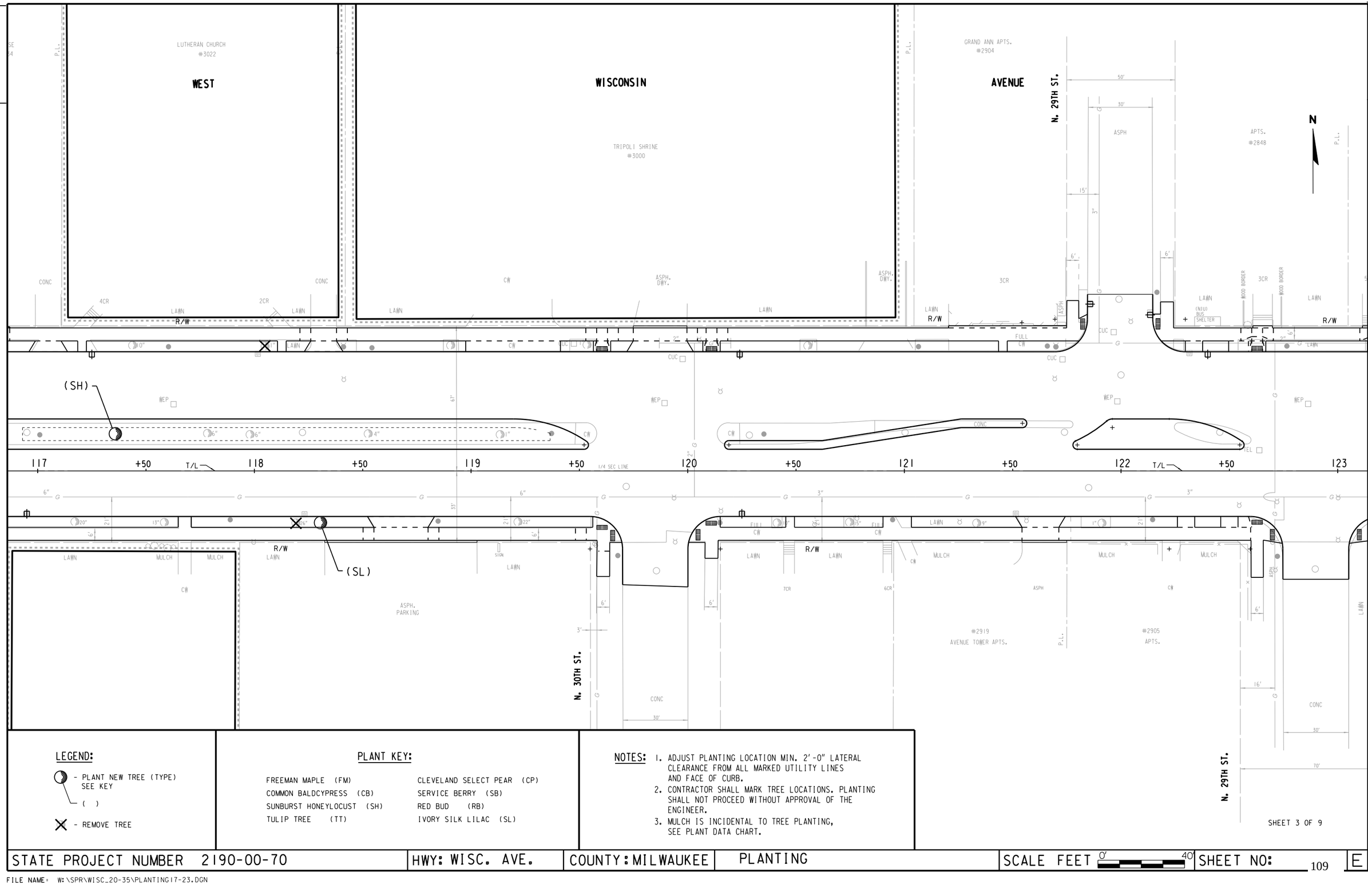
1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

BM HYD SE C… N.31ST ST. … STA. 116+85… (TOP OF OPE… ELEV. 100.…

SHEET 2 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 108 E

FILE NAME: W:\SPR\WISC_20-35\PLANTING11-17.DGN



LEGEND:

- ( ) - PLANT NEW TREE (TYPE) SEE KEY
- X - REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

SHEET 3 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 109 E

FILE NAME = W:\SPR\WISC_20-35\PLANTING17-23.DGN

WEST WISCONSIN AVENUE

WISCONSIN AVENUE ELEMENTARY SCHOOL
#2700-2708

BM: STD #150 NW CORNER
N. 27TH ST. & W. WISCONSIN AVE.
7' W. & 21' N. OF CURBS
IN WATER VALVE BOX. STA. 120+76, 32' LT.
ELEV = 109.836

N

HOUSE #2838-2840 | HOUSE #2830-2836 | ST. PAUL'S CHURCH #2812-2820

N. 28TH PL. | N. 28TH ST.

40' | 23' CONC | 60' | 34' CONC ON GRAVEL | 21'

5CR | CONC | 5CR | 2CR | 4CR | 3CR | 2CR | CW

LAWN | CONC BLOCKS | R/W | FIBER | FULL CW | CUC | BRICK PILLARS & IRON FENCE | ASPH | 5'

(FM) | (CP) | (CP) | (CP) | WEP | CONC. PAVEMENT "2013" | END CONSTRUCTION STA. 127+33.0 T/L

123 +50 T/L 124 +50 125 +50 126 +50 127 +50 128 +50 129 T/L

3" | 33' | 6' | 21' | 4" | 20' | 3"

(CP) | (FM) | (FM) | (FM)

CONC BASE | ENT I RISER | ASPH PARKING

N. 29TH ST. | N. 28TH ST.

#2729-2731 | #2727-2725 BAR | #2719 BILLIARDS | #2709-2711 FOR LEASE

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:
1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

SHEET 4 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 110	E

FILE NAME: W:\SPR\WISC_20-35\PLANTING23-29.DGN

AVE.
20+76, 32' LT.

WEST WISCONSIN AVENUE

CITY OF MILWAUKEE #2630 | APTS. #2620-2622 | APTS. #2616 | RED CROSS #2602 | RETAIL STORES #2532 | #2524

P.L.

33' 33' 50' 15' 76' 40' 20' 4' 6'

CAUTION

BEGIN CONSTRUCTION
STA. 133+12.0 T/L

N

BRICK PILLARS & IRON FENCE
BUS STOP
ASPH
CW
FULL CW
CURB
BUS SHELTER
R/W
LAWN
MONOTUBE
2CR
MAIL
GRAVEL
ENT
CONC PARK
ASPH ON CONC
CUC
TEL
WEP
CONC
8"
9"
12"
6"
2"
20'
CONC. PAVEMENT "2013"

129 1/4 SEC LINE +50 T/L 130 +50 131 1/4 SEC LINE +50 132 T/L +50 133 +50 134 +50 1/4 SEC LINE 135

179° 51' 07"
MON.

FULL CW
BUS STOP
ENT
PHONE
HOLLOW CW
PED CURB
BUS SHELTER
MONOTUBE
1"
LAWN
5'
35'
N. 26TH ST.
SECTION LINE
TERRACE AREA
IRON FENCE
NEW CONC
PLANTER
NOT SHOWN ON XSEC
ASPH. PARKING
CONC
33'
66'
#2525
US BANK

BM HYD SE CORNER
N.26TH ST. & W. WISCONSIN AVE.
STA. 133+91.36'RT.(NW BOLT)
ELEV. 117.63

SHEET 5 OF 9

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 111	E

FILE NAME: W:\SPR\WISC_20-35\PLANTING29-35.DGN

REVISED DATE: 12-16-2016 BY DLF

WEST

WISCONSIN AVENUE

#2524-2526 APTS. #2518 ABAND. GAS STATION #2502-2506 GRAND AVENUE SCHOOL #2430

SIGNATURE BED NO. 2 (TYPE I)
SEE CONSTRUCTION DETAIL

(SL) (SL) (SL)

CAUTION CAUTION CAUTION

N. 25TH ST.

135 +50 T/L 136 +50 137 +50 138 +50 139 +50 140 T/L +50 141

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

SHEET 6 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 112 E

FILE NAME: W:\SPR\WISC_20-35\PLANTING35-41.DGN

REVISED DATE: 12-16-2016 BY DLF

WEST

WISCONSIN

AVENUE

GRAND AVE. APTS. #2336

AMBASSADOR HOTEL #2308-2324

AVENUE MANOR APTS. #2224

N

(CP)

CAUTION 18KV

CAUTION

R/W

ASPH

LAWN

GRAVEL

WALL

6CR

3CR

CW

CURB

STAMPED CONC PATIO

LAMP POSTS

BLK WALL

FULL CW

CUC

STORM

WEP

TEL

CONC

T/L

1/4 SEC LINE

141 +50 142 +50 143 +50 144 +50 145 +50 146 +50 147

N. 24TH ST.

(SOME PARKING)

ASPH. PARKING

(OWN PARKING LOT TO SOUTH)

DECO STONE WALL

BUSHES @ HIGH CW

1CR

N. 23RD ST.

#2301-2305 AMBASSADOR INN

#2227 PARKING LOT FOR AMBASSADOR INN

BRICK PILLARS

GRAVEL/LANDSCAPE STONE

BW HYD SE CORNER N.23RD ST. & W. WIS STA. 146+73.25'RT. ELEV. 129.85

SHEET 7 OF 9

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
- ( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE	(FM)	CLEVELAND SELECT PEAR	(CP)
COMMON BALDCYPRESS	(CB)	SERVICE BERRY	(SB)
SUNBURST HONEYLOCUST	(SH)	RED BUD	(RB)
TULIP TREE	(TT)	IVORY SILK LILAC	(SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 113 E

FILE NAME: W:\SPR\WISC_20-35\PLANTING41-47.DGN

REVISED DATE: 07-21-2017 BY DB

2

AVENUE MANOR APTS. #2224 | MICHAELS RESTAURANT #2220 | TACO BELL #2210 | BMO BANK #2120

WEST | N. 22ND ST. | WISCONSIN | N | AVENUE | N. 21ST ST.

SIGNATURE BED NO. 3 (TYPE 2)
SEE CONSTRUCTION DETAIL

(FM) (FM) (FM)

CAUTION CAUTION CAUTION CAUTION

147 +50 148 +50 T/L 149 1/4 SEC LINE +50 150 +50 151 +50 152 +50 153

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
- ( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

#2101 APTS. | #2051 LAW FIRM

SHEET 8 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 114 E

FILE NAME: W:\SPR\WISC_20-35\PLANTING47-53.DGN

REVISED DATE: 07-21-2017 BY DB

2

WEST AVENUE

WISCONSIN

BLDG. #2040

PABST MANSION #2000

P.L.

N

CAUTION

END PROJECT STA.156 + 80.00 T/L

R/W

ENT ENT ENT ENT

BIKE RACK

CUC

LAWN

ASPH CONC

CONC. RET. WALL

ASPH. DWY.

CONC. DWY. CONC. PILLAR

ST LIGHT BOX FULL CW

(SB) (SB) (SB) (TT)

BUSH

CW

153 +50 154 +50 T/L 155 +50 156 +50 157

MON.

1/4 SEC LINE

WEP

TEL

G

33'

67'

R/W

2CR

ASPH. PARKING

ASPH. ON CONC.

FULL CW

BIKE RACK

N. 20TH ST.

LEGEND:

- PLANT NEW TREE (TYPE) SEE KEY
- ( )
- REMOVE TREE

PLANT KEY:

FREEMAN MAPLE (FM)	CLEVELAND SELECT PEAR (CP)
COMMON BALDCYPRESS (CB)	SERVICE BERRY (SB)
SUNBURST HONEYLOCUST (SH)	RED BUD (RB)
TULIP TREE (TT)	IVORY SILK LILAC (SL)

NOTES:

1. ADJUST PLANTING LOCATION MIN. 2'-0" LATERAL CLEARANCE FROM ALL MARKED UTILITY LINES AND FACE OF CURB.
2. CONTRACTOR SHALL MARK TREE LOCATIONS. PLANTING SHALL NOT PROCEED WITHOUT APPROVAL OF THE ENGINEER.
3. MULCH IS INCIDENTAL TO TREE PLANTING, SEE PLANT DATA CHART.

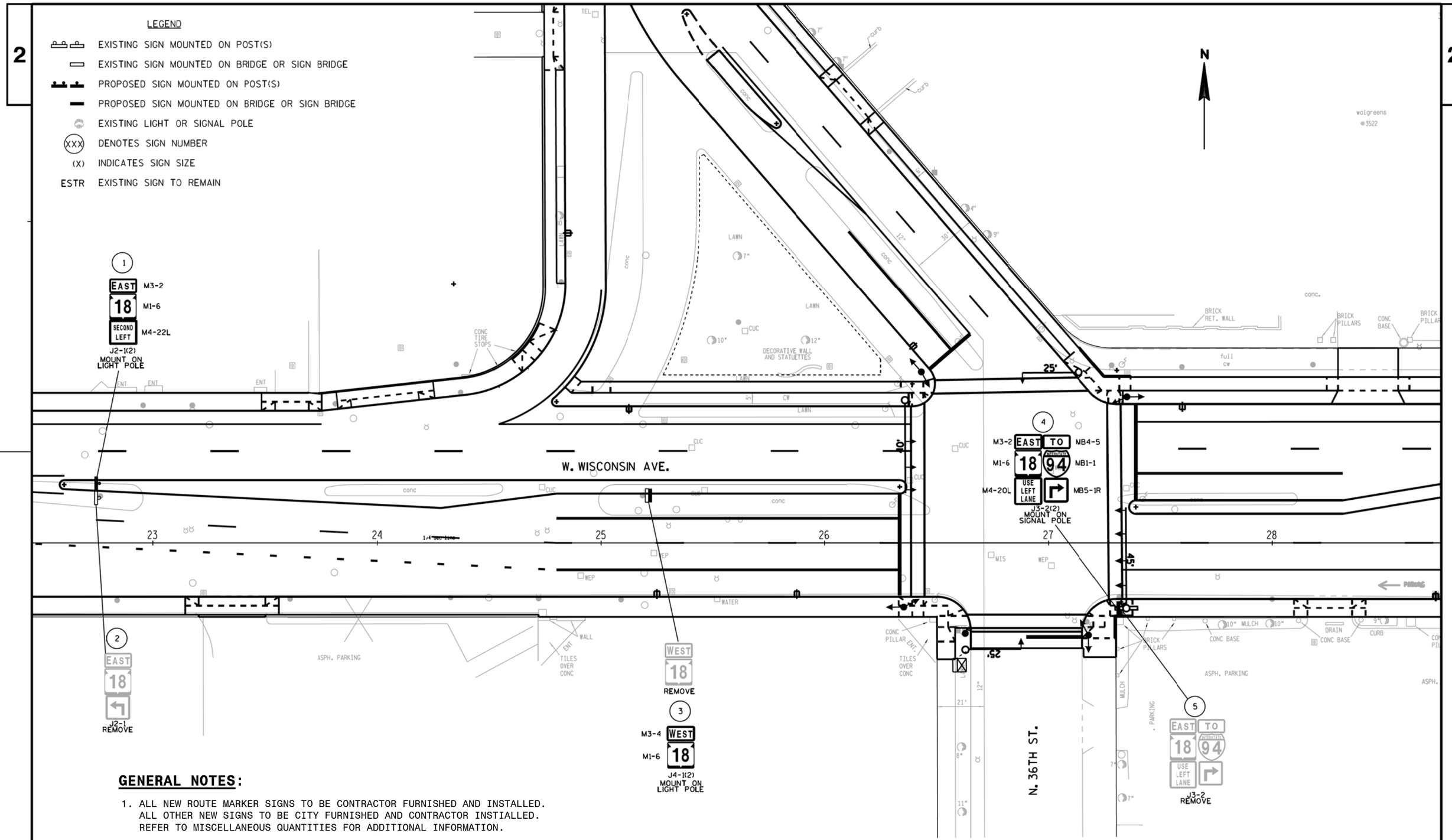
SHEET 9 OF 9

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLANTING	SCALE FEET 0' 40'	SHEET NO: 115	E

FILE NAME = W:\SPR\WISC_20-35\PLANTING53-57.DGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



GENERAL NOTES:

1. ALL NEW ROUTE MARKER SIGNS TO BE CONTRACTOR FURNISHED AND INSTALLED. ALL OTHER NEW SIGNS TO BE CITY FURNISHED AND CONTRACTOR INSTIALLED. REFER TO MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

SHEET 1 OF 2

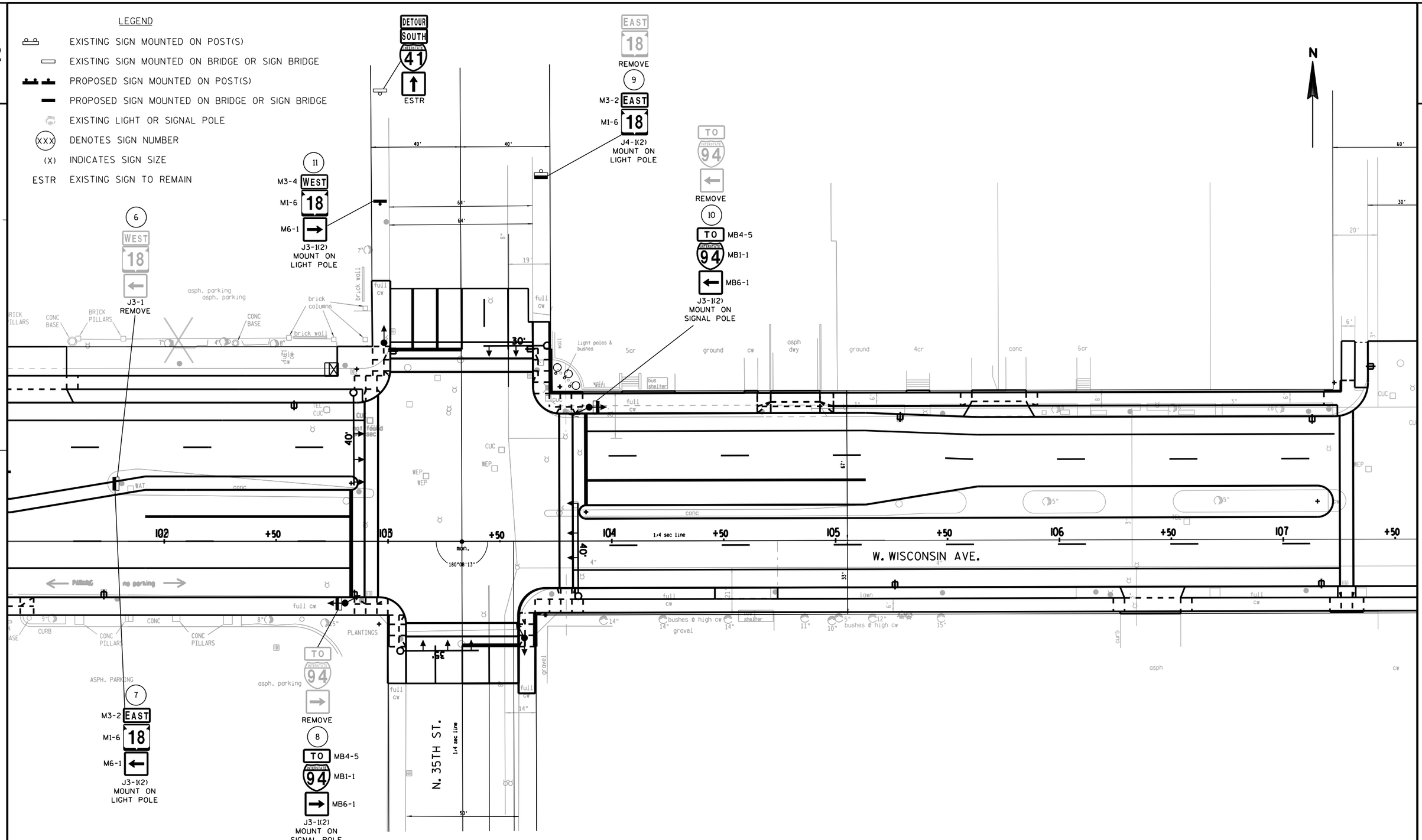
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PERMANENT SIGNING - ROUTE MARKERS	SHEET E

FILE NAME : J:\projects\d2_21900018\Sign\023202_ps.dgn PLOT DATE : 15-MAR-2017 09:35 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

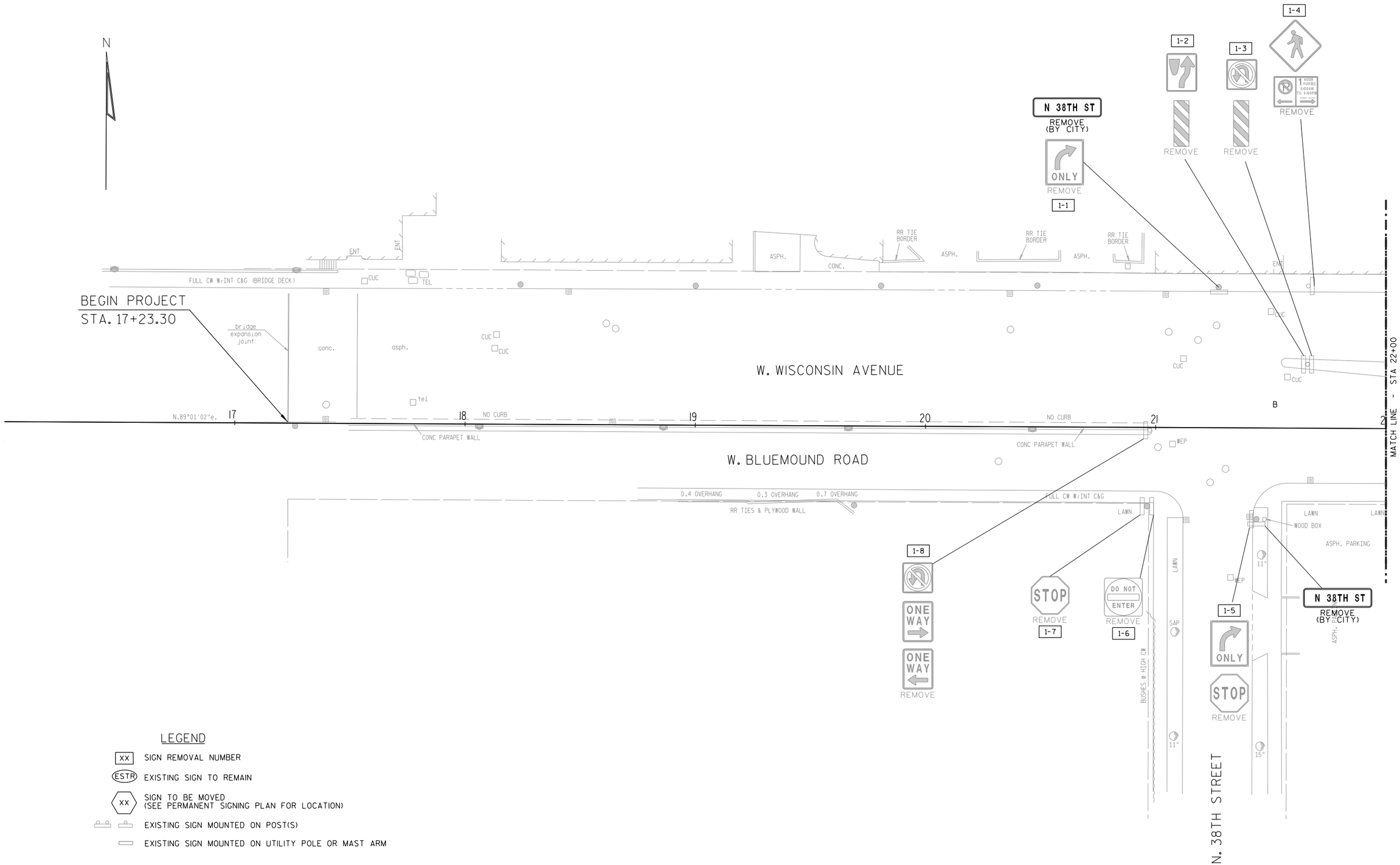
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 2 OF 2

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PERMANENT SIGNING - ROUTE MARKERS	SHEET 117	E

2



LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 118	E

2

MATCH LINE

N

W. WISCONSIN AVENUE

N. 37TH STREET

N. 36TH STREET

MATCH LINE - STA 22+00

MATCH LINE - STA 28+00

W WISCONSIN AV
REMOVE (BY CITY)

2-1 BIKE LANE AHEAD REMOVE

2-2 1 HOUR PARKING 9:00AM TO 8:00PM REMOVE

2-3 BIKE ROUTE REMOVE

2-4 1 HOUR PARKING 9:00AM TO 8:00PM REMOVE

2-5 REMOVE

2-6 REMOVE

2-7 STOP REMOVE

CONE TYPE STOPS

2-8

2-9 ONLY REMOVE

2-10 REMOVE

LAWN
7"
CUC
10"
12"
DECORATIVE WALL AND STATUETTES
LAWN
CW
LAWN

2-11 LEFT LANE MUST TURN LEFT REMOVE

N 36TH ST
REMOVE (BY CITY)

2-12 RIGHT LANE MUST TURN RIGHT REMOVE

2-13 2 HOUR PARKING 7:00AM TO 7:00PM REMOVE

BRICK RET. WALL
full CW

ENT
conc
CUC
WEP
MIS
N.89°01'02"e.
1/4 sec line
22
23
24
25
26
27
201
202

2-15 REMOVE

2-16 REMOVE

FULL CW

ASPH. PARKING

2-1 VALLEY PARK REMOVE 2-22

AHEAD REMOVE 2-21

2-20 REMOVE

2-19 REMOVE

LEFT TURN YIELD TO PEDESTRIANS

WALL
ENT
TILES OVER CONC

2-18 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE

2-17 REMOVE

CONC PILLAR
TILES OVER CONC

N 36TH ST
REMOVE (BY CITY)

BUS STOP
MOVE (BY MCTS)

LAWN
5"
11"

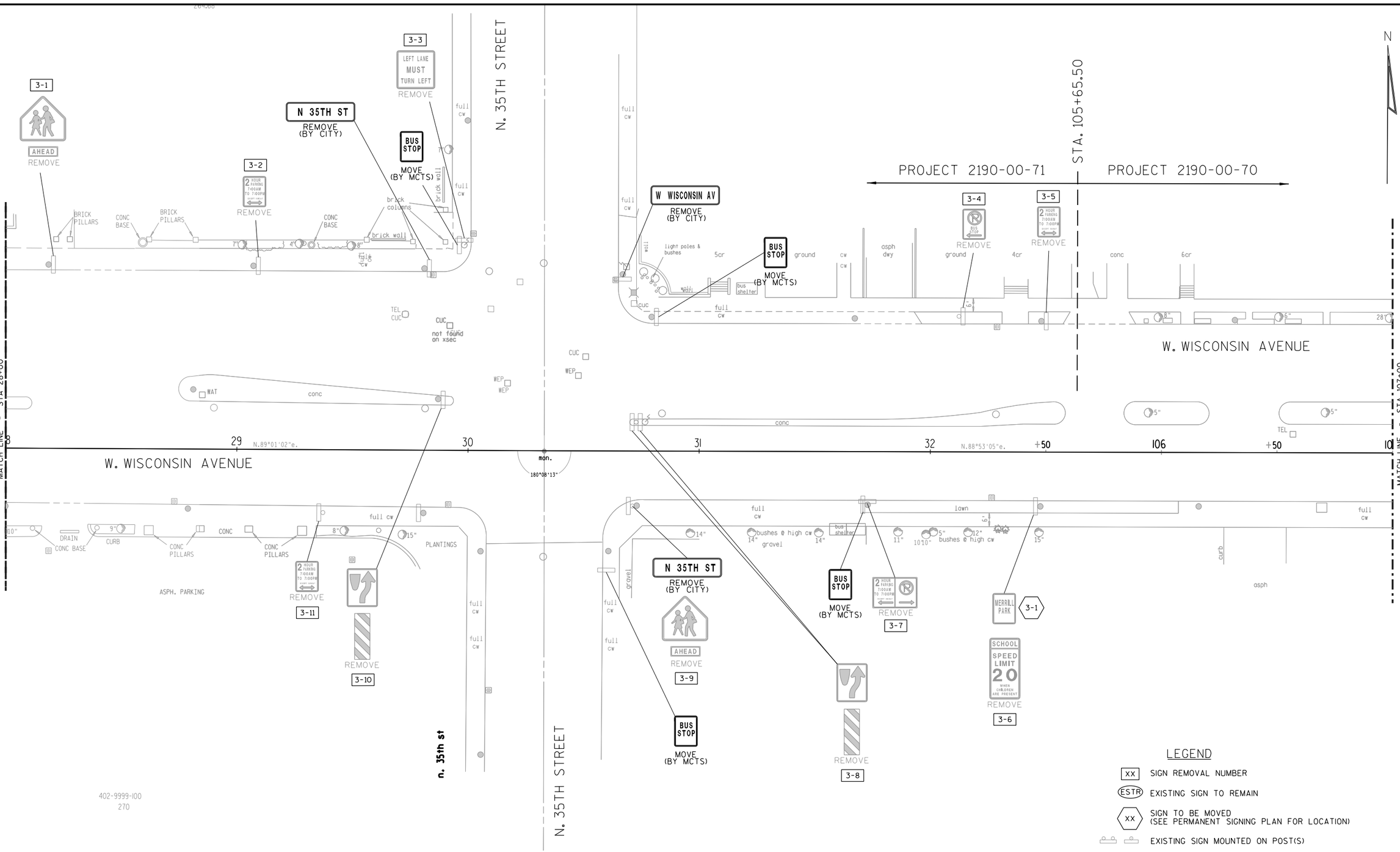
BRICK PILLARS
MULCH
10" MULCH
CONC BASE
ASPH. PARKING
7"
7"

2-14 2 HOUR PARKING 7:00AM TO 7:00PM REMOVE

LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 119	E



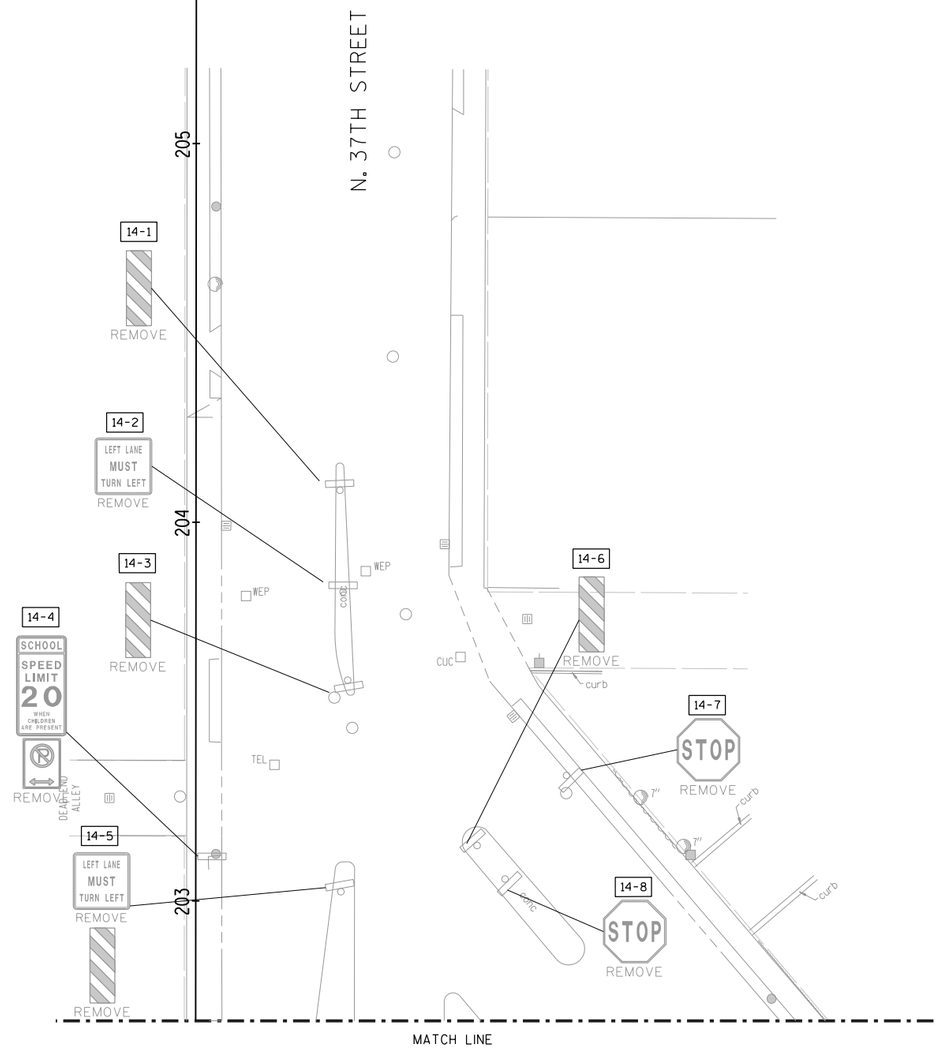
402-9999-100
270

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 120	E

2

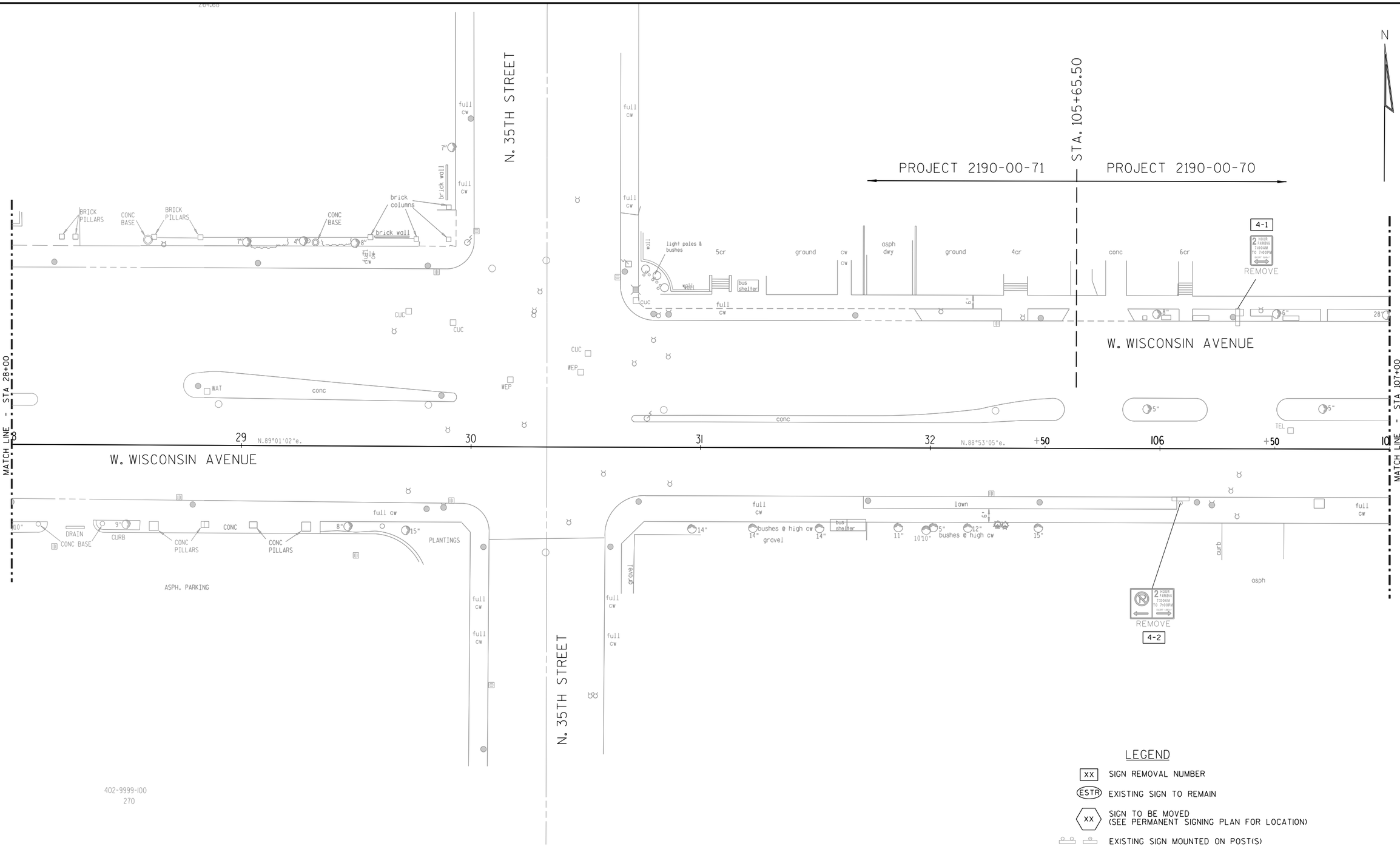
LEGEND

- XX — SIGN REMOVAL NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM



2

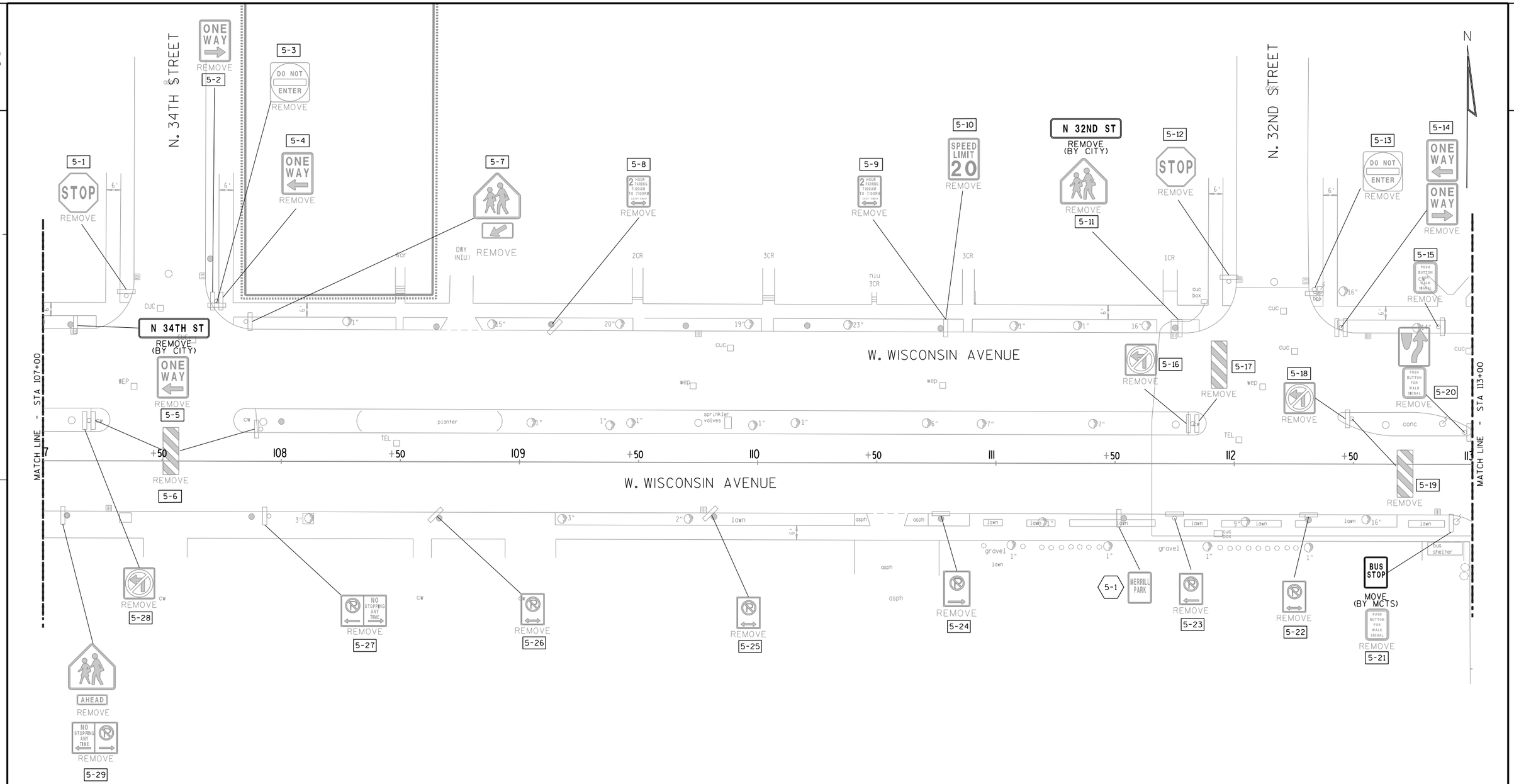
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 121	E



LEGEND

- XX — SIGN REMOVAL NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 122	E



LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 123	E

2

N

N. 31ST STREET

W. WISCONSIN AVENUE

N. 32ND STREET

MATCH LINE - STA 113+00

MATCH LINE - STA 119+00

6-1 PUSH BUTTON FOR WALK SIGNAL REMOVE

6-2 PUSH BUTTON FOR WALK SIGNAL REMOVE

BUS STOP MOVE (BY MCTS)

6-3 PUSH BUTTON FOR WALK SIGNAL REMOVE

6-4 REMOVE

N 31ST ST REMOVE (BY CITY)

6-5 STOP REMOVE

6-6 SPEED HUMP 15 M.P.H REMOVE

6-7 6-8 REMOVE

W WISCONSIN AV REMOVE (BY CITY)

6-9 REMOVE

6-10 REMOVE

MERRILL PARK 6-1 REMOVE 6-19

6-17 6-18 REMOVE

SPEED LIMIT 30 REMOVE 6-16

6-15 REMOVE

6-14 REMOVE

6-13 REMOVE

BUS STOP MOVE (BY MCTS)

N 31ST ST REMOVE (BY CITY)

MERRILL PARK 6-2 REMOVE

STOP REMOVE 6-12

AHEAD REMOVE 6-11

LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 124	E

2

N

MATCH LINE - STA 119+00

MATCH LINE - STA 125+00

W. WISCONSIN AVENUE

N. 30TH STREET

N. 29TH STREET

N. 28TH STREET

+50 120 +50 121 +50 122 +50 123 +50 124 +50 12

7-1 REMOVE

7-2 REMOVE

7-3 REMOVE

7-4 REMOVE

N 30TH ST REMOVE (BY CITY)

7-5 REMOVE

N 29TH ST REMOVE (BY CITY)

7-6 REMOVE

7-7 STOP REMOVE

7-8 REMOVE

7-9 REMOVE

7-10

BUS STOP MOVE (BY MCTS)

W WISCONSIN AV REMOVE (BY CITY)

7-11 REMOVE

7-12 REMOVE

7-13 REMOVE

7-14 STOP REMOVE

7-15 DEAD END REMOVE

N 28TH PL REMOVE (BY CITY)

7-16 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE

7-17 1 HOUR PARKING 7:00AM TO 7:00PM EVERY DAY REMOVE

7-18 STOP REMOVE

7-19 REMOVE

7-20 REMOVE

7-21 STOP REMOVE

W WISCONSIN AV REMOVE (BY CITY)

BUS STOP MOVE (BY MCTS)

7-22 REMOVE

MERRILL PARK 7-1

MERRILL PARK 7-2

MERRILL PARK 7-3

LEGEND

- XX — SIGN REMOVAL NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 125	E

2

N

N. 28TH STREET

N. 27TH STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 125+00

MATCH LINE - STA 131+00

125 +50 126 +50 127 +50 128 +50 129 +50 130 +50 131

8-1 REMOVE

8-2 SPEED LIMIT 30 REMOVE

8-3 STOP REMOVE

W WISCONSIN AV REMOVE (BY CITY)

N 28TH ST REMOVE (BY CITY) 8-4

8-5 REMOVE

ESTR N 27TH ST

ESTR BIKE ROUTE

ESTR NO TURN ON RED

ESTR LEFT LANE MUST TURN LEFT

ESTR BUS STOP

ESTR W WISCONSIN AV NO TURN ON RED

ESTR BUS STOP

ESTR NO TURN ON RED

ESTR H

179°51'07"

mon.

ESTR LEFT LANE MUST TURN LEFT

ESTR N 27TH ST NO TURN ON RED

ESTR NO TURN ON RED

8-8 REMOVE

N 28TH ST REMOVE (BY CITY)

MERRILL PARK 8-1

W WISCONSIN AV REMOVE (BY CITY)

STOP 8-7 REMOVE

NO STOPPING SCHOOL DAYS 7:30 TO 4PM NO STOPPING ANY TIME 8-6 REMOVE

ESTR

P PARKING TO INTERSTATE 94

ESTR

ESTR

ESTR NO TURN ON RED

ESTR BUS STOP

ESTR W WISCONSIN AV NO TURN ON RED

LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 126	E

2

N

MATCH LINE - STA 131+00

MATCH LINE - STA 137+00

N. 26TH STREET

W. WISCONSIN AVENUE

ESTR

2 HOUR PARKING 7:00AM TO 7:00PM (EXCEPT SUN.)

ESTR

TO

INTERSTATE 94

ESTR

2 HOUR PARKING 7:00AM TO 7:00PM (EXCEPT SUN.)

N 26TH ST
REMOVE (BY CITY)

9-2

9-3
PUSH BUTTON FOR WALK SIGNAL
REMOVE

9-1
PUSH BUTTON FOR WALK SIGNAL

9-17
PUSH BUTTON FOR WALK SIGNAL
REMOVE

W WISCONSIN AV
REMOVE (BY CITY)

9-4
PUSH BUTTON FOR WALK SIGNAL
REMOVE

9-5
PUSH BUTTON FOR WALK SIGNAL
REMOVE

9-6
REMOVE

9-7
SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
FINES HIGHER
REMOVE

9-8
END SCHOOL ZONE
REMOVE

9-9
REMOVE

SPEED LIMIT 30

2 HOUR PARKING 7:00AM TO 7:00PM (EXCEPT SUN.)

ESTR

BIKE ROUTE

ESTR

2 HOUR PARKING 7:00AM TO 7:00PM

ESTR

W WISCONSIN AV
REMOVE (BY CITY)

9-16
PUSH BUTTON FOR WALK SIGNAL
REMOVE

N 26TH ST
REMOVE (BY CITY)

9-15
PUSH BUTTON FOR WALK SIGNAL
REMOVE

9-14
PUSH BUTTON FOR WALK SIGNAL
REMOVE

AHEAD
S16-9P
9-13

SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
FINES HIGHER
REMOVE
9-12

9-11
REMOVE

N 25TH ST
REMOVE (BY CITY)

9-10
REMOVE

BUS STOP
MOVE (BY MCTS)

LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 127	E

2

N. 25TH STREET

N. 24TH STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 137+00

MATCH LINE - STA 143+00

N 25TH ST
REMOVE
(BY CITY)

BUS STOP
MOVE
(BY MCTS)

10-1 REMOVE

10-2 REMOVE

10-3 REMOVE

10-4 REMOVE

10-5 REMOVE

10-6 REMOVE

10-7 REMOVE

10-8 REMOVE

N 24TH ST
REMOVE
(BY CITY)

10-9 REMOVE

10-10 REMOVE

10-11 REMOVE

10-12 REMOVE

10-13 REMOVE

10-14 REMOVE

W WISCONSIN AV
REMOVE
(BY CITY)

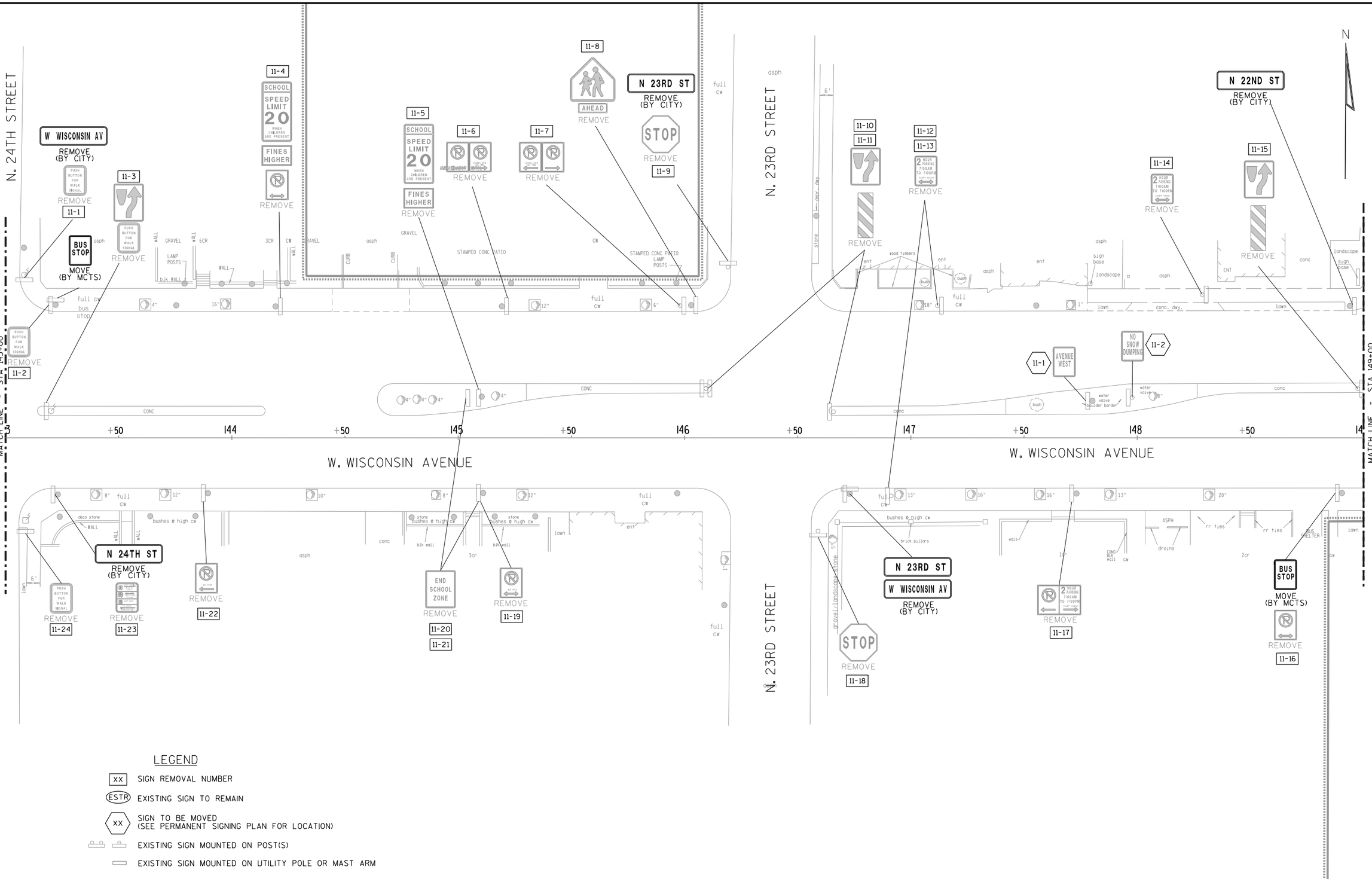
AVENUE WEST 10-1

10-15 REMOVE

LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

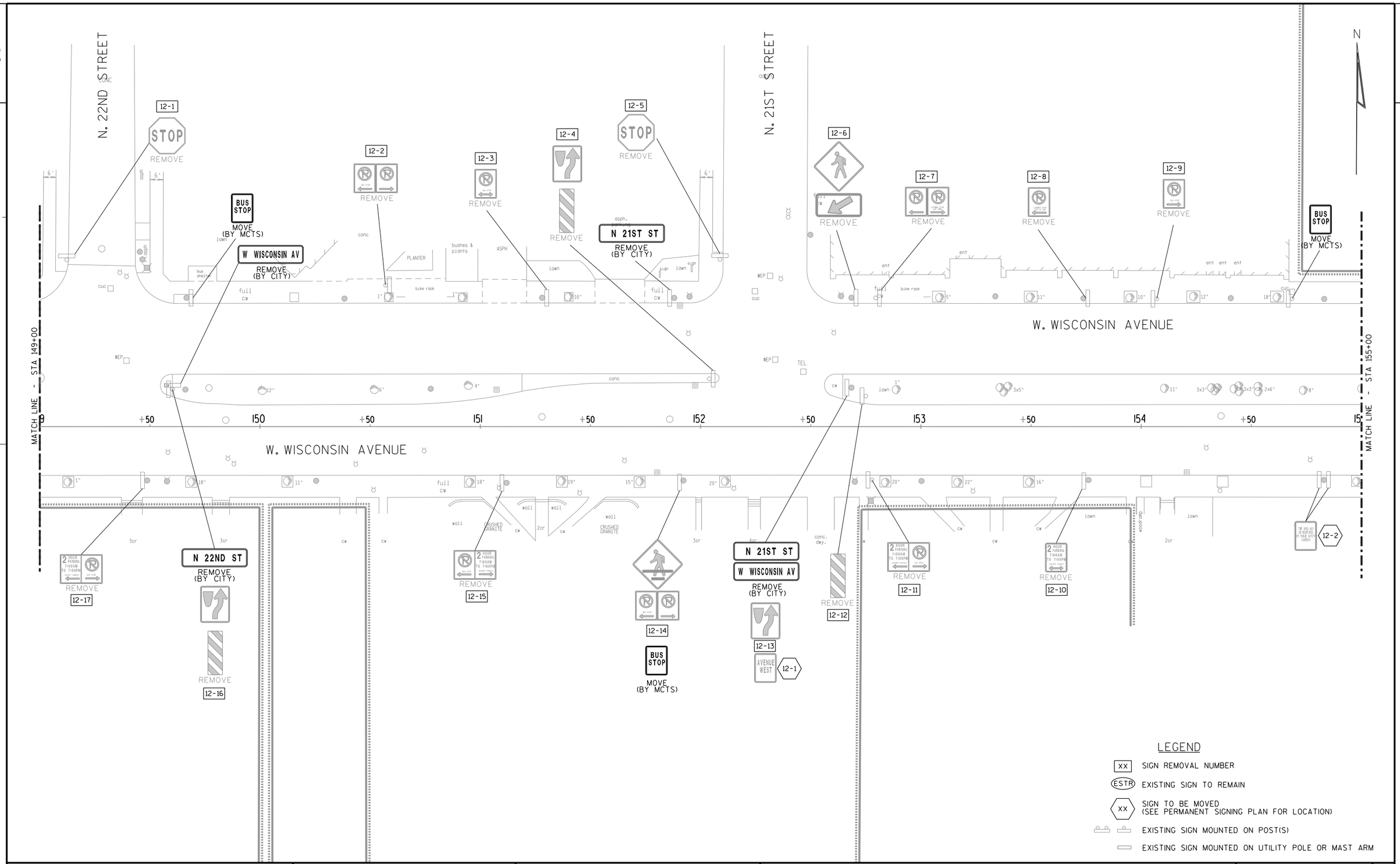
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 128	E



LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

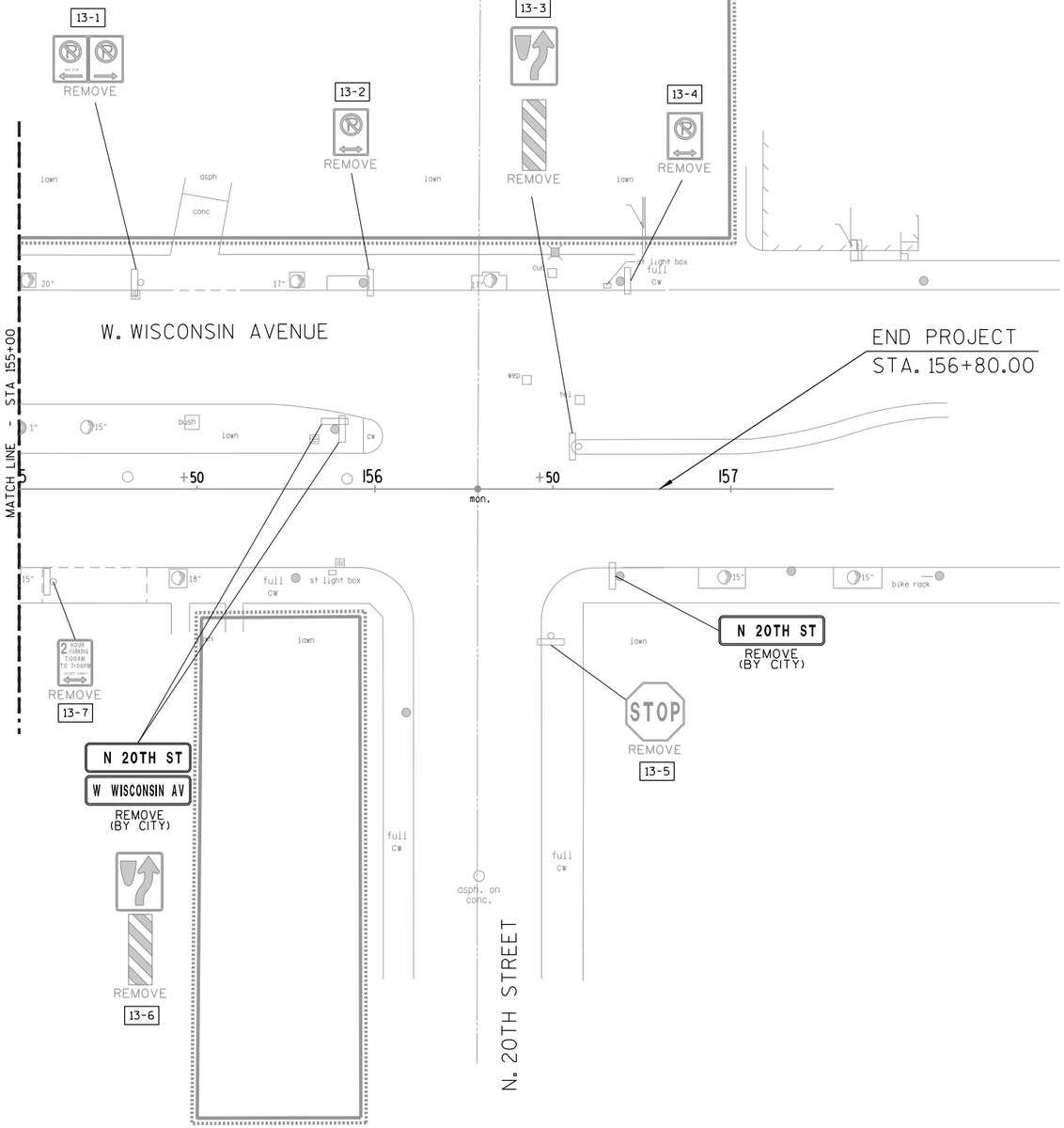
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 129 E



LEGEND

- XX — SIGN REMOVAL NUMBER
- (ESTR) — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 130	E



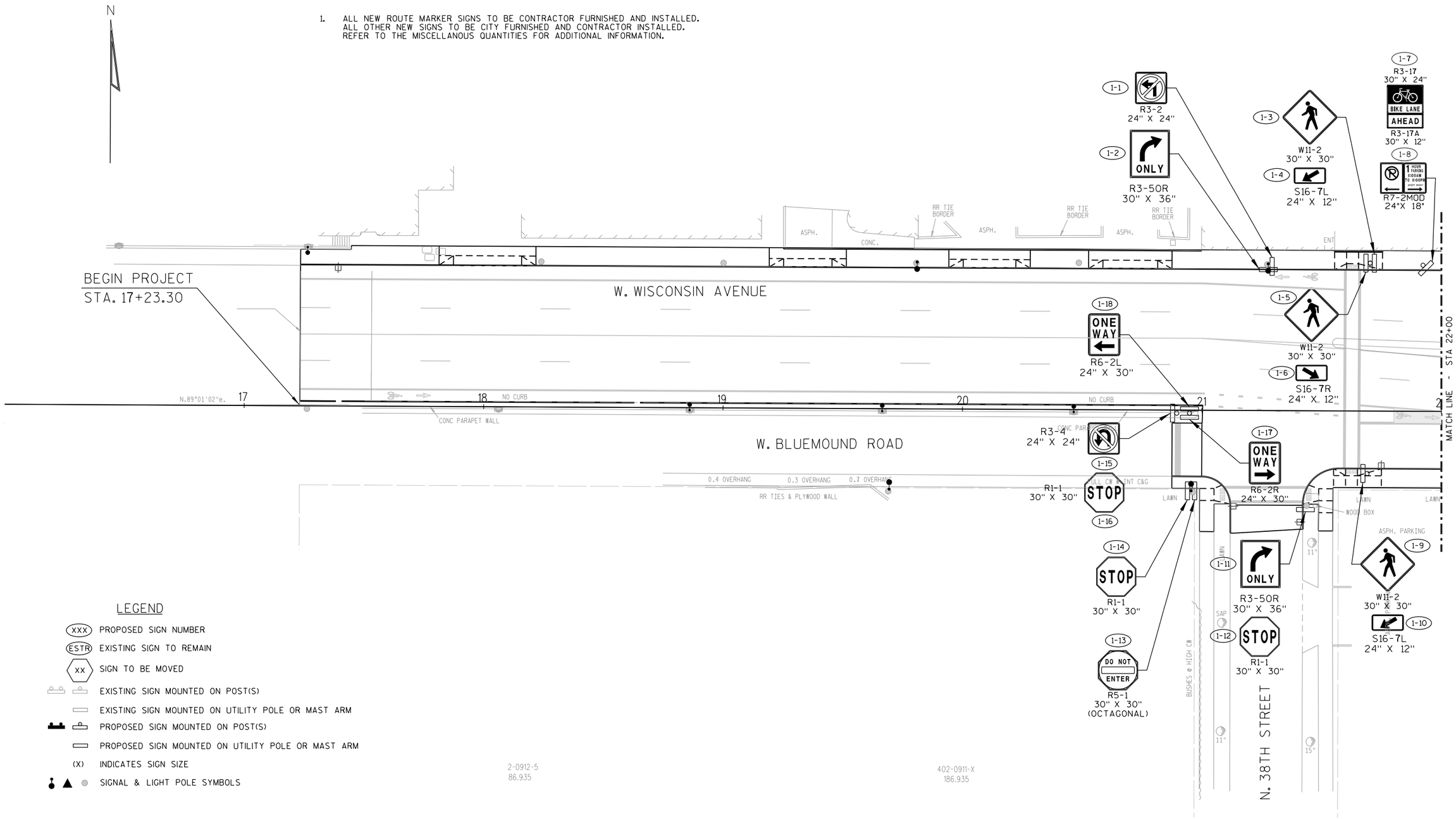
LEGEND

- XX — SIGN REMOVAL NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED (SEE PERMANENT SIGNING PLAN FOR LOCATION)
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SIGN REMOVAL PLAN	SHEET 131	E

GENERAL NOTES

1. ALL NEW ROUTE MARKER SIGNS TO BE CONTRACTOR FURNISHED AND INSTALLED. ALL OTHER NEW SIGNS TO BE CITY FURNISHED AND CONTRACTOR INSTALLED. REFER TO THE MISCELLANOUS QUANTITIES FOR ADDITIONAL INFORMATION.



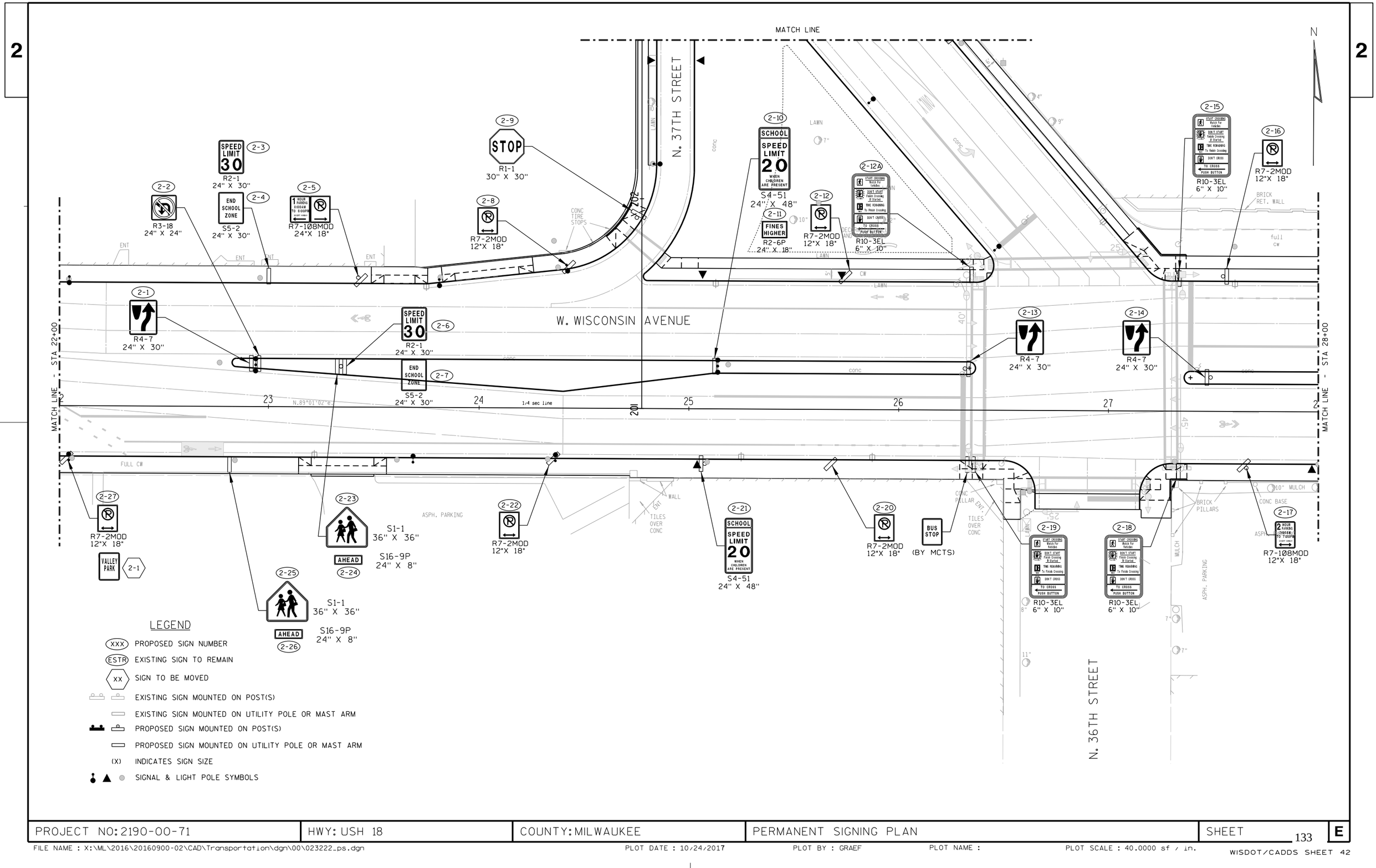
LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

2-0912-5
86.935

402-0911-X
186.935

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 132	E



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 133	E

FILE NAME : X:\ML\2016\20160900-02\CAD\Transportation\dgn\00\023222_ps.dgn PLOT DATE : 10/24/2017 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

N

N. 35TH STREET

STA. 105+65.50

PROJECT 2190-00-71

PROJECT 2190-00-70

W. WISCONSIN AVENUE

MATCH LINE - STA 28+00

MATCH LINE - STA 107+00

3-1 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51
24" X 48"

3-2 FINES HIGHER
R2-6P
24" X 18"

3-3
R7-2MOD
12"X 18"

BUS STOP (BY MCTS)

3-4
R4-7
24" X 30"

3-5
R4-7
24" X 30"

3-6
R7-108MOD
24"x 18"

3-10
R7-108 (MOD)
12"X 18"

3-9
R7-108MOD
24"x 18"

3-7 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51
24" X 48"

3-8 FINES HIGHER
R2-6P
24" X 18"

3-1 MERRILL PARK

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

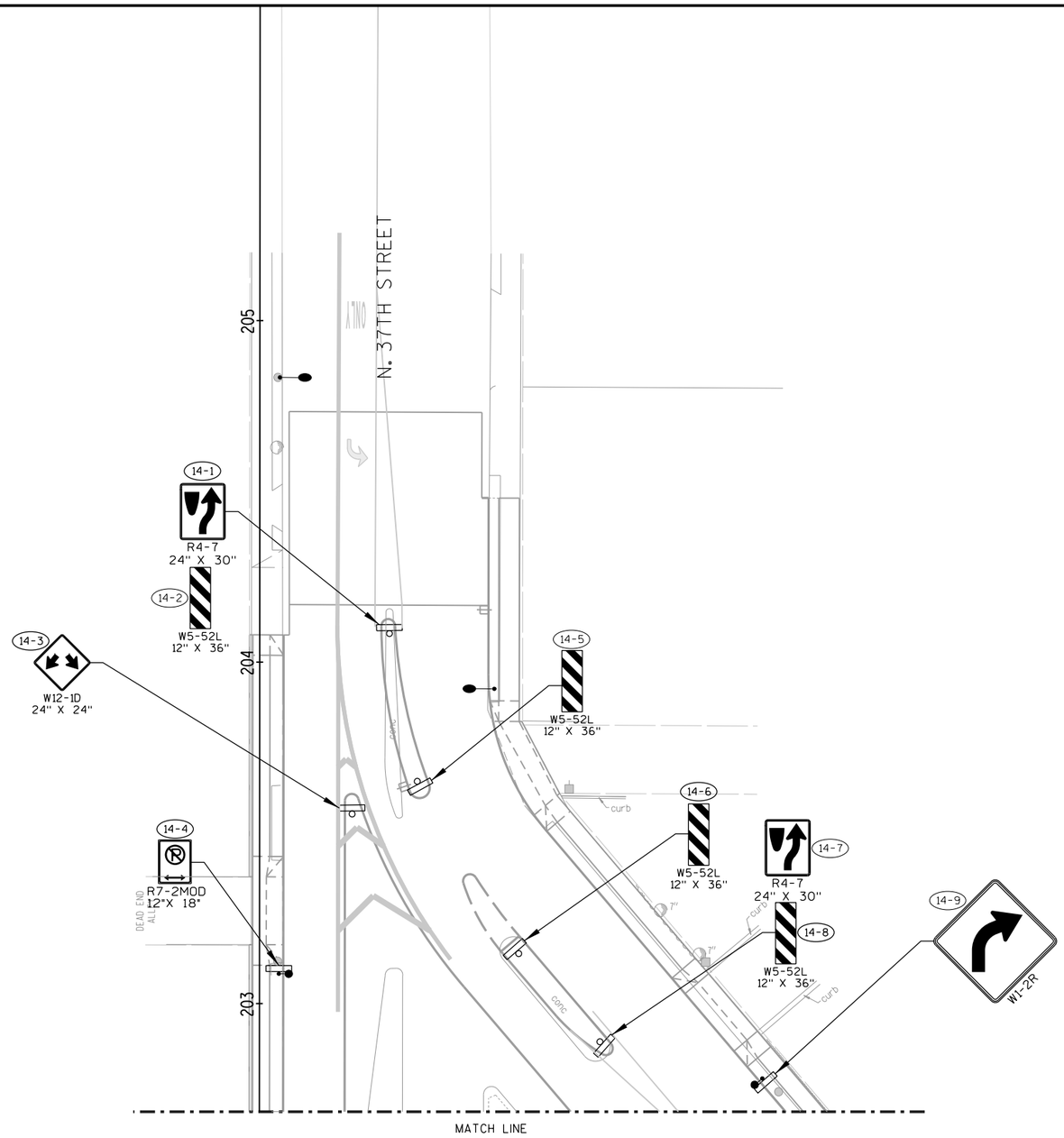
402-9999-100
270

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 134	E

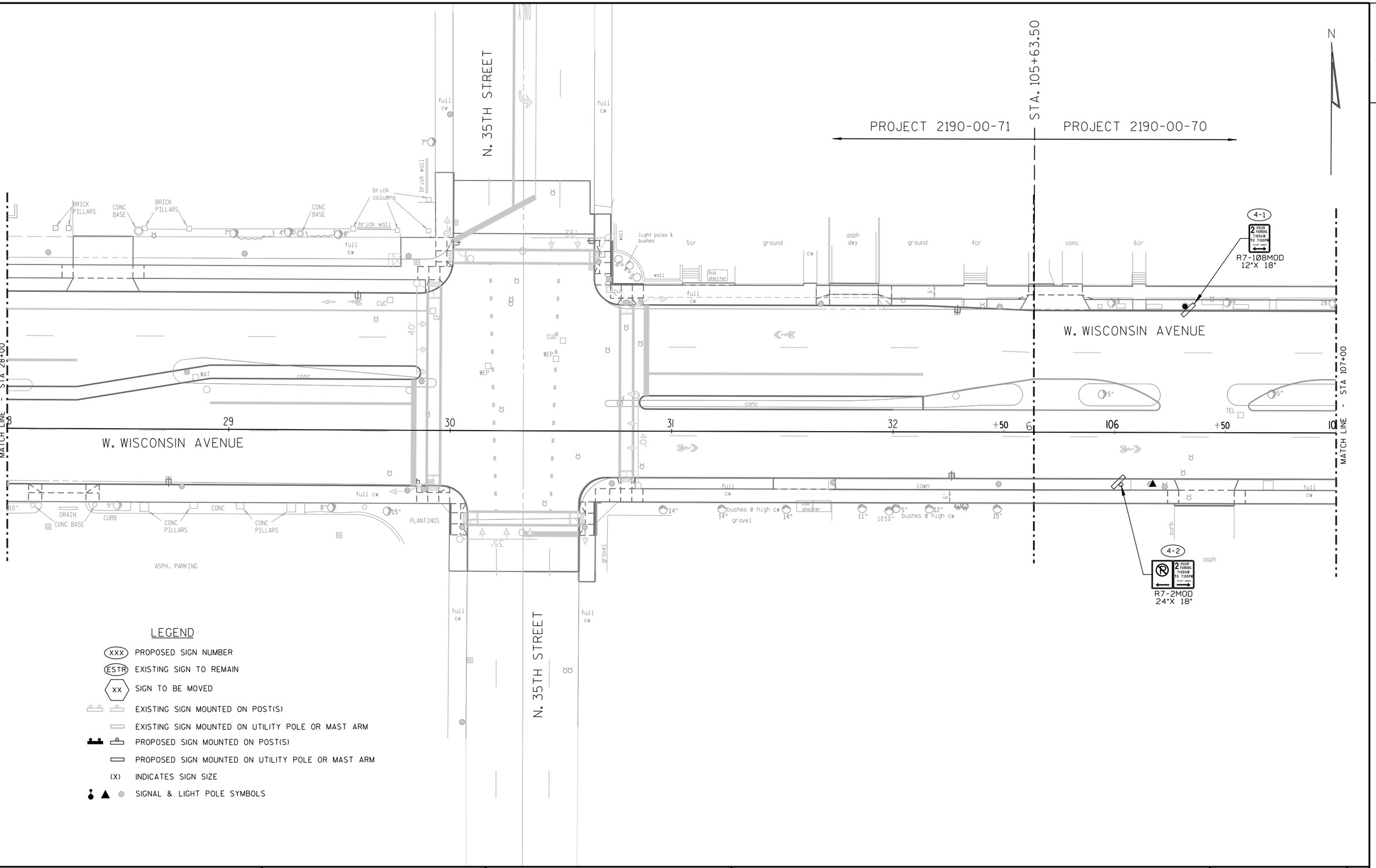
2

LEGEND

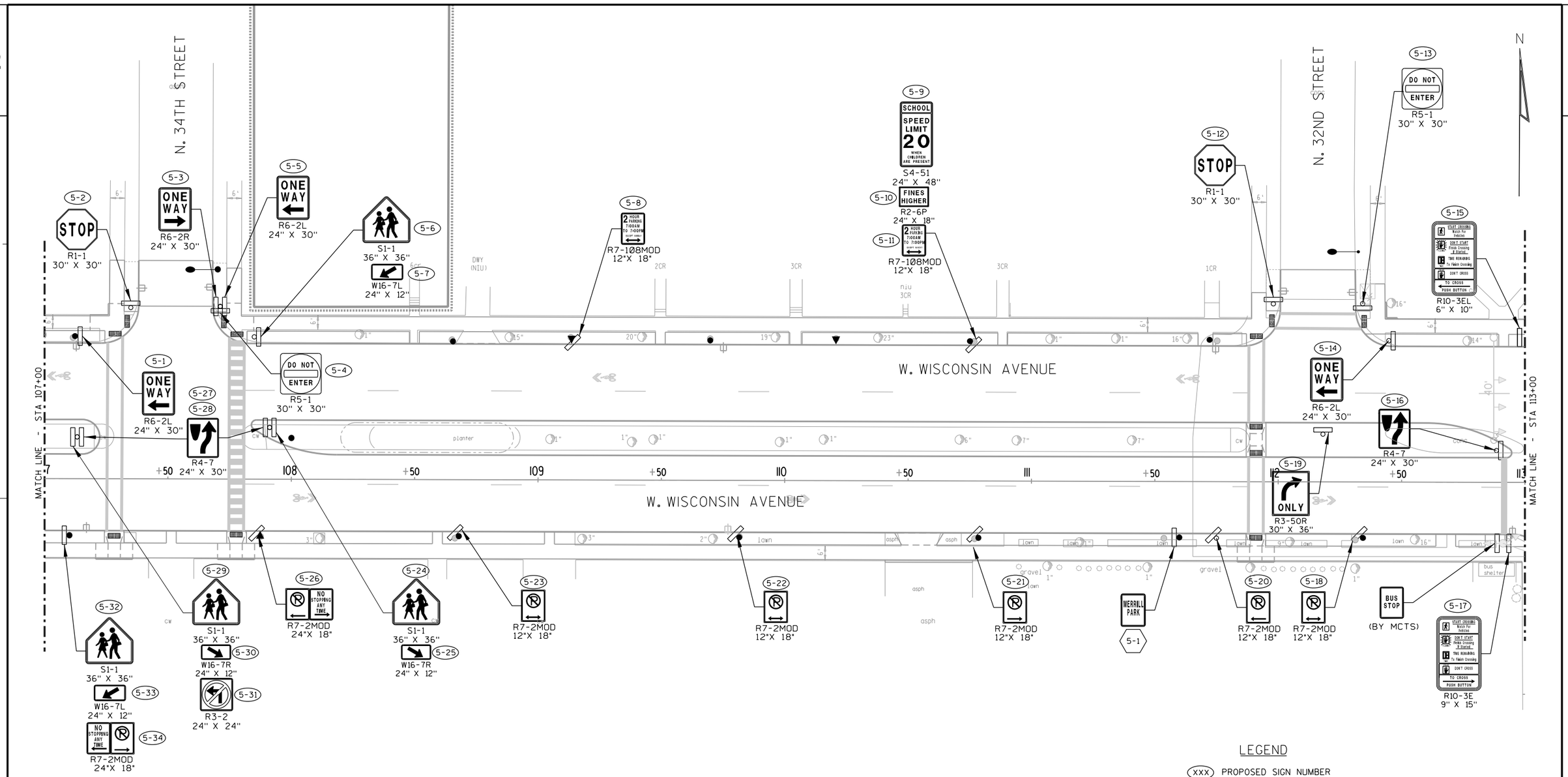
- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS



2



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 136	E



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 137	E

2

N. 31ST STREET

W. WISCONSIN AVENUE

N. 32ND STREET

N. 31ST STREET

MATCH LINE - STA 113+00

MATCH LINE - STA 119+00

6-1 R10-3ER 6" X 10"

6-2 R4-7 24" X 30"

6-3 R7-2MOD 12"X 18"

6-4 R1-1 30" X 30"

6-5 R4-7 24" X 30"

6-6 SPEED HUMP 30" X 30"

6-7 15 M.P.H. W13-1 18" X 18"

6-8 R4-7 24" X 30"

6-9 R7-2MOD 12"X 18"

6-10 ONLY R3-50R 30" X 36"

6-11 R7-2MOD 12"X 18"

6-14 R1-1 30" X 30"

6-15 R7-2MOD 12"X 18"

6-16 R7-2MOD 12"X 18"

6-17 R7-2MOD 12"X 18"

6-18 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT S4-51 24" X 48"

6-19 FINES HIGHER R2-6P 24" X 18"

6-20 R10-3EL 6" X 10"

BUS STOP (BY MCTS)

MERRILL PARK 6-1

MERRILL PARK 6-2

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 138	E

2

N

N. 29TH STREET

N. 28TH PLACE

W. WISCONSIN AVENUE

W. WISCONSIN AVENUE

MATCH LINE - STA 119+00

MATCH LINE - STA 125+00

7-1 NO STOPPING ANYTIME
R7-4(MOD)
18" X 24"

7-2 S1-1
36" X 36"

7-3 W16-7R
24" X 12"

7-4 R4-7
24" X 30"

7-5 R4-7
24" X 30"

7-6 S1-1
36" X 36"

7-7 S16-7L
24" X 12"

7-8 NO STOPPING ANYTIME
R7-4L(MOD)
18" X 24"

7-9 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51
24" X 48"

7-10 FINES HIGHER
R2-6P
24" X 18"

7-11 S1-1
36" X 36"

7-12 AHEAD
S16-9P
24" X 8"

7-13 STOP
R1-1
30" X 30"

7-14 R7-2MOD
12"X 18"

BUS STOP
(BY MCTS)

7-15 DO NOT ENTER
R5-1
30" X 30"

7-16 ONLY
R3-50R
30" X 36"

7-17 R4-7
24" X 30"

7-18 R7-2MOD
12"X 18"

7-19 R4-7
24" X 30"

7-20 R7-2MOD
12"X 18"

7-21 STOP
R1-1
30" X 30"

7-22 DEAD END
W14-1
30" X 30"

7-23 R4-7
24" X 30"

7-24 SPEED LIMIT 30
R2-1
24" X 30"

7-25 END SCHOOL ZONE
S5-2
24" X 30"

7-26 1 HOUR PARKING 7:00AM TO 10:00PM
R7-108MOD
12"X 18"

7-27 STOP
R1-1
30" X 30"

7-28 R7-2MOD
12"X 18"

7-29 W12-1D
24" X 24"

7-30 R3-18
24" X 24"

7-31 R7-2MOD
12"X 18"

7-32 S1-1
36" X 36"

7-33 S16-7R
24" X 12"

7-34 STOP
R1-1
30" X 30"

7-35 S1-1
36" X 36"

7-36 W16-7L
24" X 12"

MERRILL PARK 7-1

MERRILL PARK 7-2

MERRILL PARK 7-3

N. 30TH STREET

N. 29TH STREET

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 139	E

2

N. 28TH STREET

CONC ON GRAVEL

8-1 R7-4R(MOD) 18" X 24"

8-2 SPEED LIMIT 30 R2-1 24" X 30"

8-3 STOP R1-1 30" X 30"

8-4 DO NOT ENTER R5-1 30" X 30"

8-5 ONLY R3-50R 30" X 36"

8-6 W12-1D 24" X 24"

8-7 NO STOPPING SCHOOL DAYS 7:00 TO 9:00 / NO STOPPING ANY TIME R7-4MOD 24" X 18'

8-8 STOP R1-1 30" X 30"

8-9 ONLY R3-50R 30" X 36"

8-10 R3-18 24" X 24"

8-11 1 HOUR PARKING 7:00AM TO 7:00PM R7-108MOD 12"X 18"

8-1 MERRILL PARK

W. WISCONSIN AVENUE

MATCH LINE - STA 125+00

5 +50 126 +50 127 +50 128 +50 129 +50 130 +50 13

MATCH LINE - STA 131+00

W. WISCONSIN AVENUE

N. 27TH STREET

ESTR NO TURN ON RED

ESTR BUS STOP

ESTR LEFT LANE MUST TURN LEFT

ESTR BIKE ROUTE

ESTR NO TURN ON RED

ESTR

ESTR W WISCONSIN AV

ESTR BUS STOP

ESTR NO TURN ON RED

ESTR

ESTR

179°51'07"

ESTR H

mon.

ESTR LEFT LANE MUST TURN LEFT

ESTR N 27TH ST

ESTR NO TURN ON RED

ESTR NO TURN ON RED

ESTR 1 HOUR PARKING 7:00AM TO 7:00PM

ESTR P PARKING TO INTERSTATE 94

ESTR NO TURN ON RED BUS STOP

ESTR W WISCONSIN AV NO TURN ON RED

ESTR NO TURN ON RED

bus stop

ASPH

N. 28TH STREET

N. 27TH STREET

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
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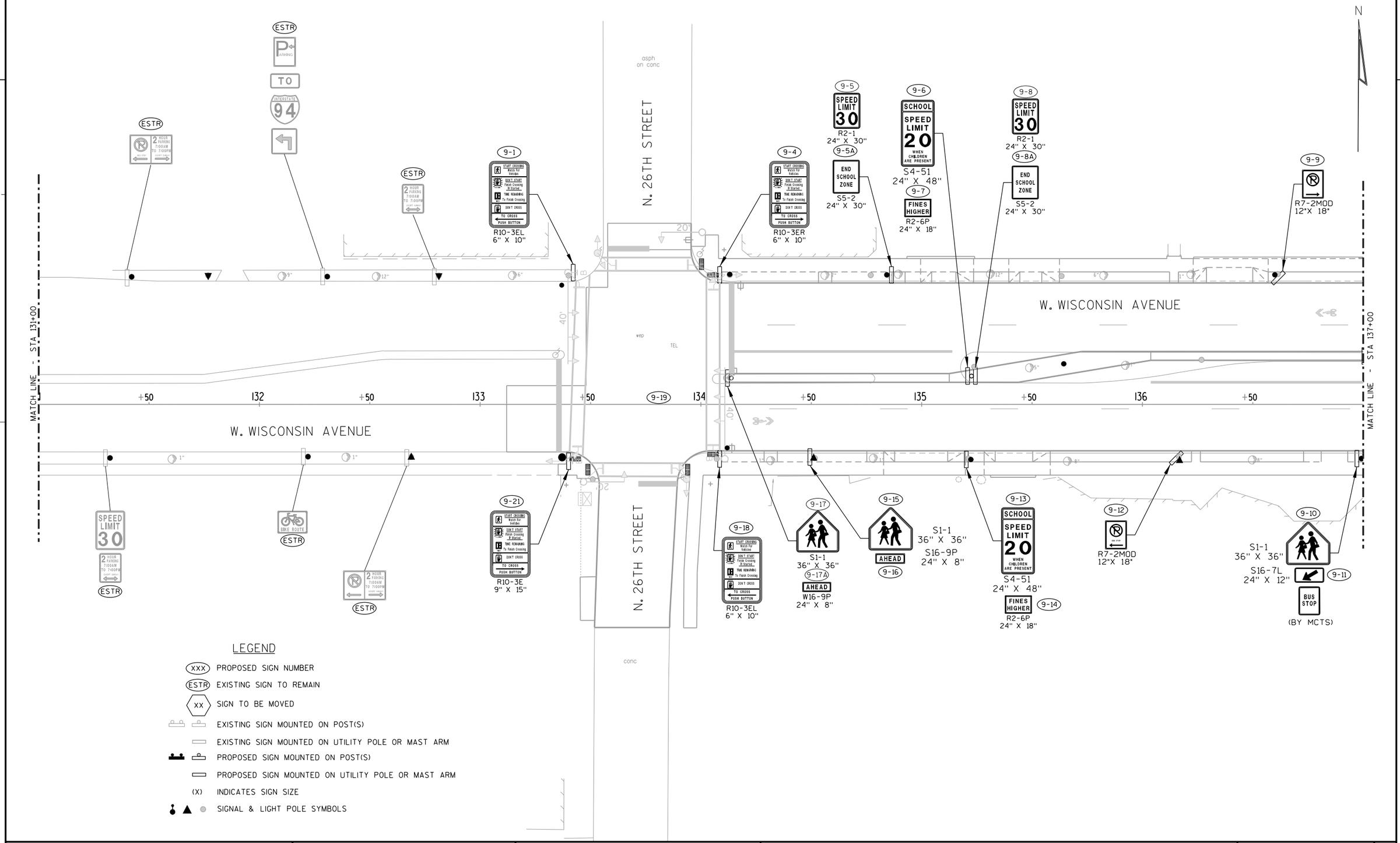
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 140	E



LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 141	E

2

N. 25TH STREET

N. 24TH STREET

W. WISCONSIN AVENUE

10-1 STOP R1-1 30" X 30"

10-2 S1-1 36" X 36"

10-3 S16-7L 24" X 12"

BUS STOP (BY MCTS)

10-4 R7-2MOD 24"X 18"

10-6 R7-5DMOD 12"X 18"

10-7 R7-5DMOD 12"X 18"

10-8 R7-5DMOD 12"X 18"

10-10 R10-3EL 6" X 10"

10-18 R4-7 24" X 30"

10-1 AVENUE WEST

10-11 R4-7 24" X 30"

MATCH LINE - STA 137+00

MATCH LINE - STA 143+00

138 139 140 141 142

10-19 S1-1 36" X 36"

10-20 W16-7R 24" X 12"

10-16 STOP R1-1 30" X 30"

10-17 R4-7 24" X 30"

10-15 S1-1 36" X 36"

10-15A W16-7R 24" X 12"

10-14 R7-2MOD 12"X 18"

10-13 R7-2MOD 24"X 18"

BUS STOP (BY MCTS)

10-12 R10-3E 9" X 15"

LEGEND

- XXX — PROPOSED SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- XX — SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 142	E

2

N. 24TH STREET

N. 23RD STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 143+00

MATCH LINE - STA 149+00

11-1 R10-3ER 6" X 10"

11-2 R4-7 24" X 30"

11-3 R7-2MOD 12"X 18"

11-4 S4-51 24" X 48" — SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT — FINES HIGHER R2-6P 24" X 18"

11-5

11-6 R2-1 24" X 30" — SPEED LIMIT 30

11-7 S5-2 24" X 30" — END SCHOOL ZONE

11-8 R7-2MOD 24"X 18"

11-9 R7-2MOD 24"X 18"

11-10 S1-1 36" X 36"

11-11 S16-9P 24" X 8" — AHEAD

11-12 R1-1 30" X 30" — STOP

11-13 S1-1 36" X 36"

11-13A S16-9P 24" X 8" — AHEAD

11-14 R4-7 24" X 30"

11-15 R7-108MOD 12"X 18" — 2 HOUR PARKING 7:00AM TO 7:00PM

11-16 R7-108MOD 12"X 18" — 2 HOUR PARKING 7:00AM TO 7:00PM

11-17 R4-7 24" X 30"

11-18 R7-2MOD 12"X 18"

11-19 R7-108MOD 24"X 18" — 2 HOUR PARKING 7:00AM TO 7:00PM

11-19A R7-108MOD 12"X 18" — 2 HOUR PARKING 7:00AM TO 7:00PM

11-20 R1-1 30" X 30" — STOP

11-21 S4-51 24" X 48" — SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT — FINES HIGHER R2-6P 24" X 18"

11-22

11-23 R2-1 24" X 30" — SPEED LIMIT 30

11-24 S5-2 24" X 30" — END SCHOOL ZONE

11-25 R7-2MOD 12"X 18"

11-26 R7-2MOD 12"X 18"

11-27 R10-3EL 6" X 10"

11-1 AVENUE WEST

11-2 NO SNOW DUMPING

BUS STOP (BY MCTS)

BUS STOP (BY MCTS)

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 143	E

N. 22ND STREET

N. 21ST STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 149+00

MATCH LINE - STA 155+00

12-1 STOP R1-1 30" X 30"

12-2 R4-7 24" X 30"

12-3 R7-2MOD 24"X 18"

12-4 R7-2MOD 12"X 18"

12-5 W11-2 30" X 30"

12-6 S16-7L 24" X 12"

12-7 STOP R1-1 30" X 30"

12-8 / 12-10 W11-2 30" X 30"

12-9 / 12-11 S16-7R 24" X 12"

12-12 R4-7 24" X 30"

12-13 R9-3A 24" X 24"

12-14 R7-2MOD 24"X 18"

12-15 R7-2MOD 12" X 18"

12-16 R7-2MOD 12"X 18"

BUS STOP (BY MCTS)

12-1 AVENUE WEST

12-17 2 HOUR PARKING 7:00AM TO 7:00PM R7-108MOD 12"X 18"

12-18 2 HOUR PARKING 7:00AM TO 7:00PM R7-108MOD 24"x 18"

12-19 R9-3A 24" X 24"

12-20 W11-2 30" X 30"

12-21 S16-7L 24" X 12"

12-22 2 HOUR PARKING 7:00AM TO 7:00PM R7-108MOD 24"x 18"

12-23 2 HOUR PARKING 7:00AM TO 7:00PM R7-108MOD 12"X 18"

12-24 2 HOUR PARKING 7:00AM TO 7:00PM R7-108MOD 24"X 18"

12-2 THIS AREA MAY BE MONITORED BY PUBLIC SAFETY CAMERAS

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
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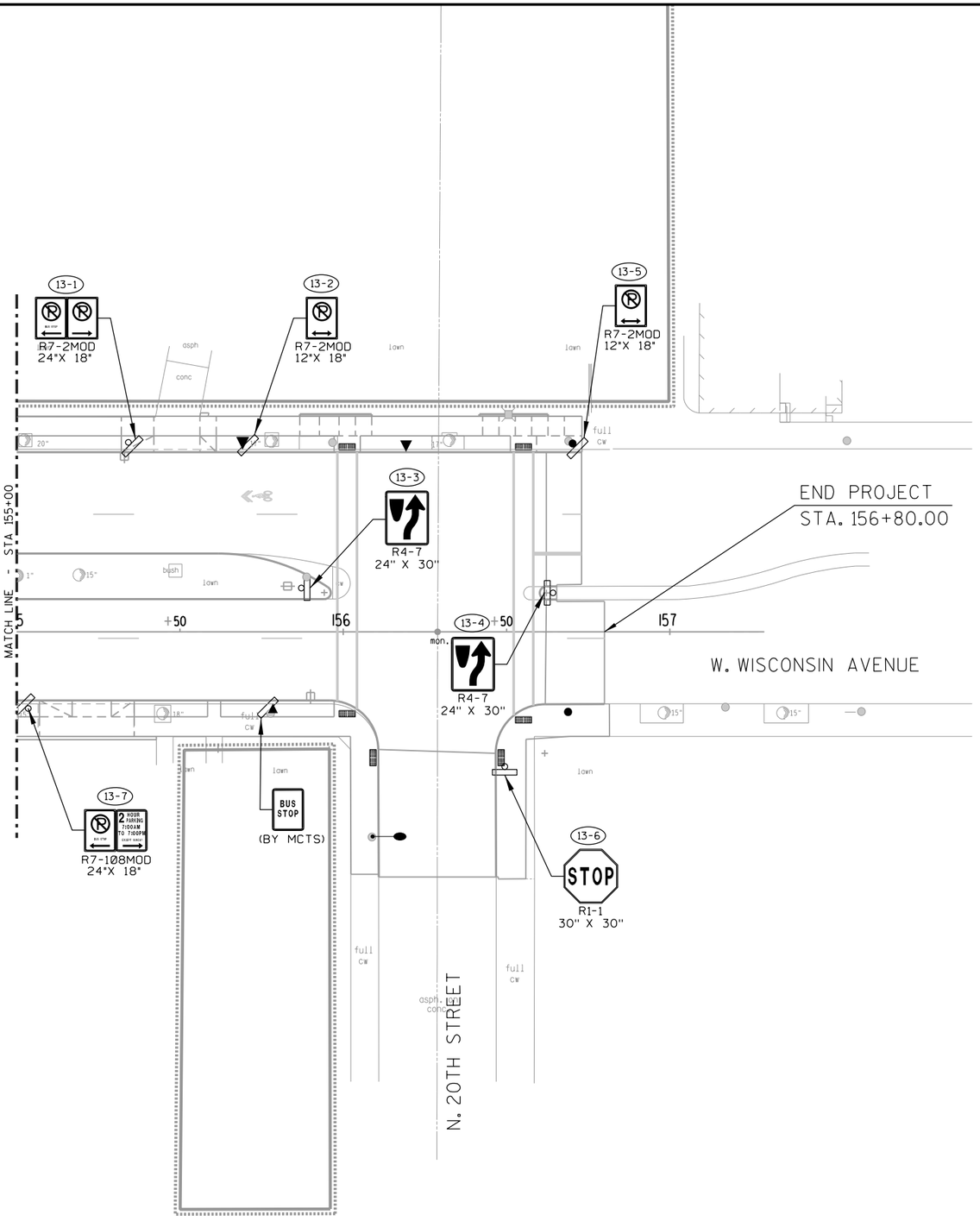
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 144	E



N

2

LEGEND

- (XXX) PROPOSED SIGN NUMBER
- (ESTR) EXISTING SIGN TO REMAIN
- (XX) SIGN TO BE MOVED
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- (X) INDICATES SIGN SIZE
- SIGNAL & LIGHT POLE SYMBOLS

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 145	E

TRAFFIC & STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

STREET LIGHTING & TRAFFIC SIGNALS SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING OR TRAFFIC SIGNAL FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING OR TRAFFIC SIGNAL DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

1 DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2 LOCATIONS OF THE PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER. FIELD MARK EACH CONDUIT LOCATION BY STAMPING AND PAINTING WITH RED PAINT ON TOP AND BACKSIDE OF CURB.

3 TYPICAL CONDUIT INSTALLED UP TO DIRECT BURIED STREET LIGHT POLES IS AS FOLLOWS 3-INCH OR 2.5-INCH (AS NOTED) SCHEDULE 40 RIGID PVC TO STREET LIGHTING METAL HOUSING (PEDESTAL), THE 1.5-INCH SCHEDULE 40 RIGID PVC TO STREET LIGHT POLE CABLE SLOT, AND THE 2-INCH SCHEDULE 40 RIGID PVC TO SIGNAL STANDARD BASE AND RISER FOR TRAFFIC SIGNAL ON STREET LIGHT POLE.

4 DEPTH OF CONDUIT INSTALLED BELOW THE STREETS, HIGHWAYS, ROADS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)

5 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT THE BASE OF THE BACKSIDE OF THE CURB/GUTTER SECTION.

6 WHEN THERE IS MORE THAN ONE CONDUIT TO BE LAID BEHIND THE CURB, PLACE ALL CONDUITS IN THE SAME TRENCH.

7 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8 THE TRENCH SHALL BE FREE OF DEBRIS AND OVERPOUR AND SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

9 BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

10 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (SEE NEC 352.28 2008 CODE)

11 PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

12 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

13 CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR BASE TO BASE, ETC.).

14 PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15 ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

16 WHEN ENDS OF CONDUIT DO NOT CONNECT TO A VAULT AND WILL END UP UNDER CONCRETE WALK. THE CONTRACTOR IS REQUIRED TO LEAVE A 24" X 24" BOX FORM CENTERED OVER THE END OF CONDUIT AND FILL THE BOXFORM WITH CRUSHED GRAVEL. (PER WISDOT SPEC 209.2.1(1) GRANULAR BACKFILL)

17 ALL PIPE CROSSINGS AND VAULTS SHALL BE AT LEAST SIX (6) FEET AWAY FROM FIRE HYDRANTS, UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18 ALL POLES AND TRAFFIC STANDARDS IN CONCRETE ARE REQUIRED TO HAVE A 30"X30" BOX SHAPED JOINT PLACED AROUND THEM USING AN EXPANSION JOINT FILLER. UNLESS NOTED OTHERWISE (SEE DETAIL 122)

19 TYPICAL RECTANGULAR VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

TRAFFIC & STREET LIGHTING GENERAL NOTES:

20 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251 OR DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148 OR DISPATCHER @ 414-286-3687

21 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL VAULT, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251
STREET LIGHTING - GEORGE BERDINE (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

22 CONDUIT WILL ONLY BE INSTALLED AFTER THE CURB IS POURED, UNLESS APPROVED BY BOTH THE ENGINEER & STREET LIGHTING SHOP SUPERVISOR.

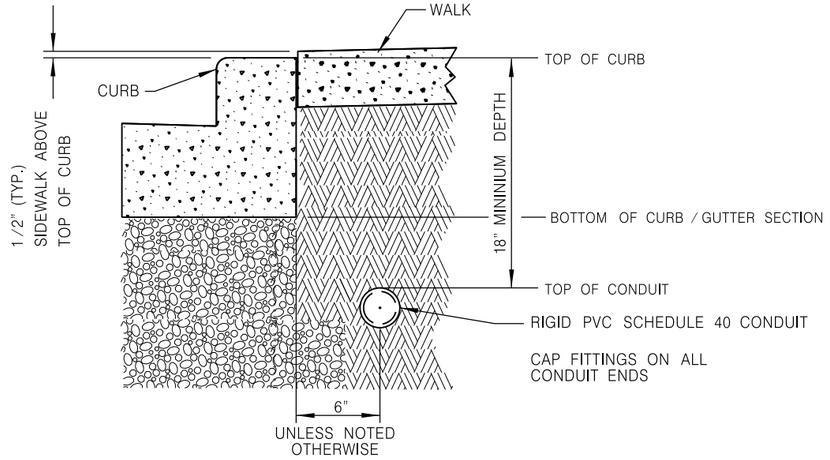
UTILITY LINE CODE

- SAN — SANITARY SEWER
- STO — STORM SEWER
- W — WATER
- G — GAS
- G — PROPOSED GAS
- E — ELECTRIC
- TE&ES — TRAFFIC & STREET LIGHTING
- OLD CITY UNDERGROUND CONDUIT
- CUC — PROPOSED CITY UNDERGROUND CONDUIT
- T — TELEPHONE
- TV — CABLE

SHEET 1 OF 10

PROJECT NO: 2190–00–70 / 2190–00–71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET 146	E

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



DETAIL "A"

100

TYPICAL CONDUIT INSTALLATION BEHIND CURB

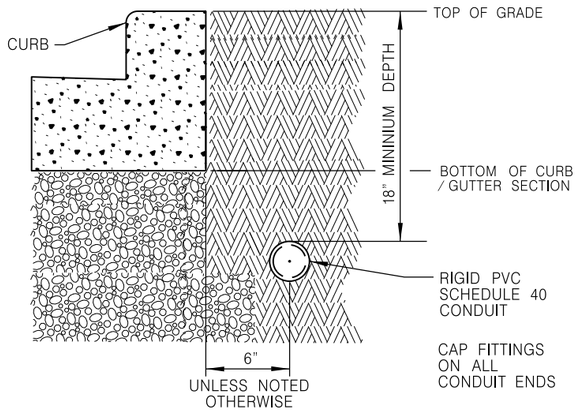
NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

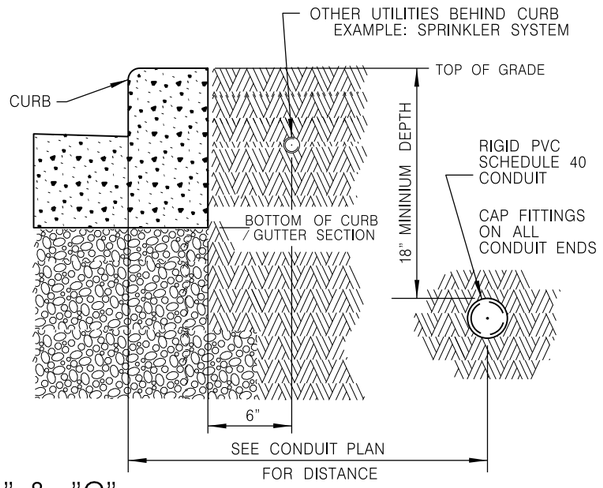
NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

DETAIL "B"

CONDUIT TO BE PLACED 6" ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



DETAIL "C"



DETAIL "B" & "C"

100

TYPICAL CONDUIT INSTALLATION BEHIND CURB

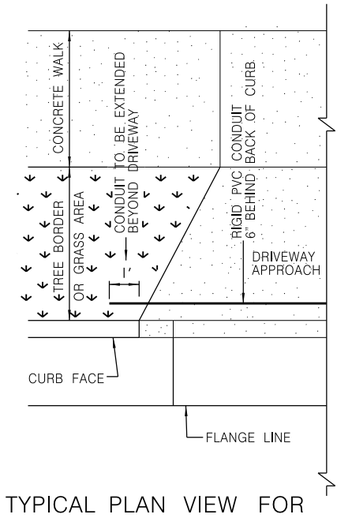
NOT TO SCALE

SHEET 2 OF 10

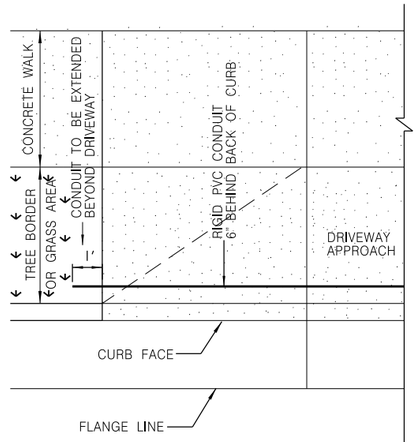
PROJECT NO: 2190–00–70 / 2190–00–71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET 147	E

FILE NAME : C:\Users\lhickm\Desktop\details.dgn PLOT DATE : 24-OCT-2017 10:37 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 20.000000:1.000000

WISDOT/CADDS SHEET 42

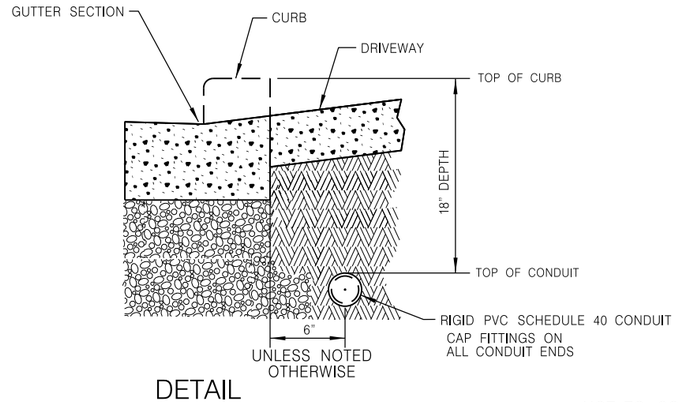


TYPICAL PLAN VIEW FOR FLARED DRIVEWAY



TYPICAL PLAN VIEW FOR DEPRESSED DRIVEWAY

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.

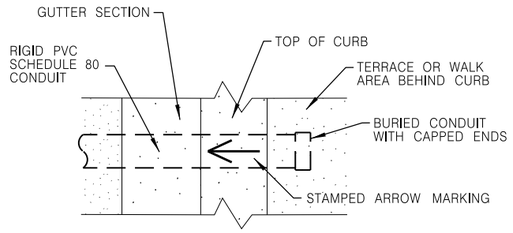


101 DETAIL — NOT TO SCALE

TYPICAL CONDUIT INSTALLATION UNDER DRIVEWAYS OR PEDESTRIAN RAMPS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

2

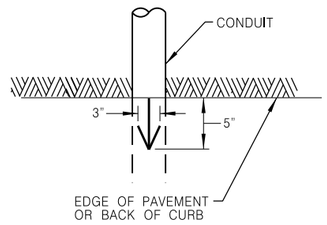


TOP VIEW OF CURB STAMPING

NOT TO SCALE

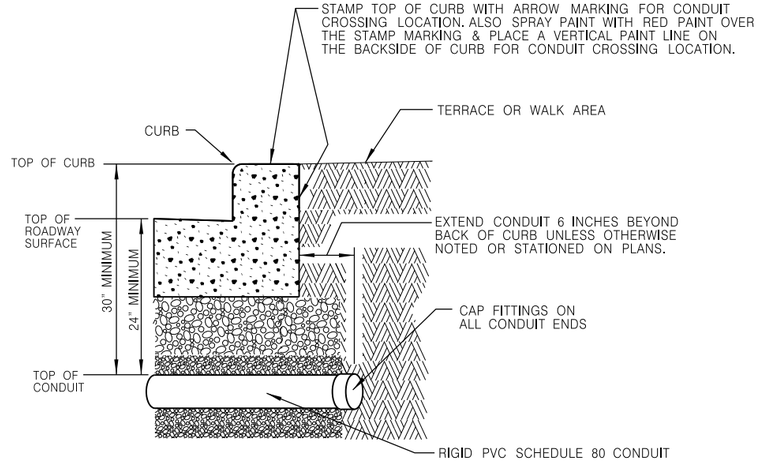
NOTE:

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4-INCH TO 3/8-INCH DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER THE PAVEMENT.



ARROW MARK

NOT TO SCALE



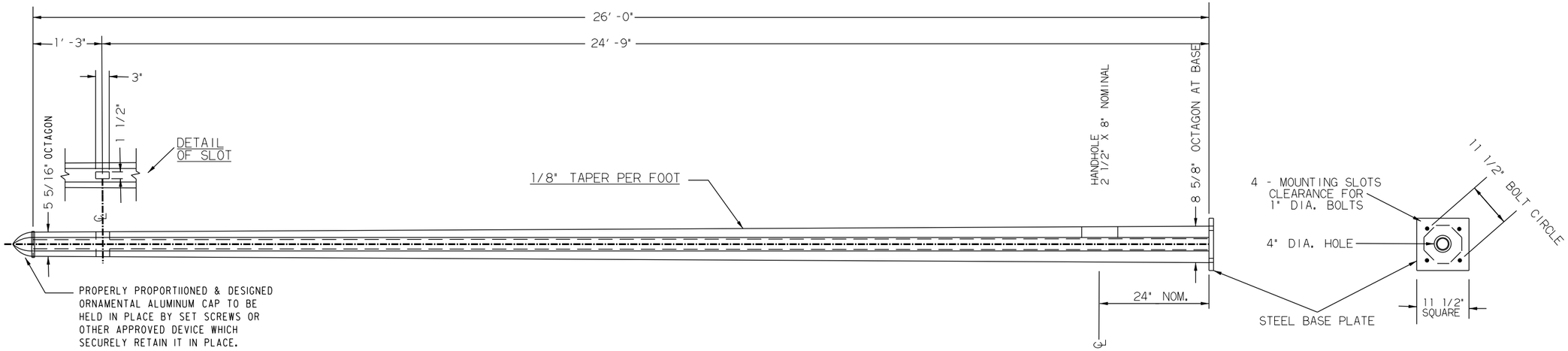
102

DETAIL VERSION #1

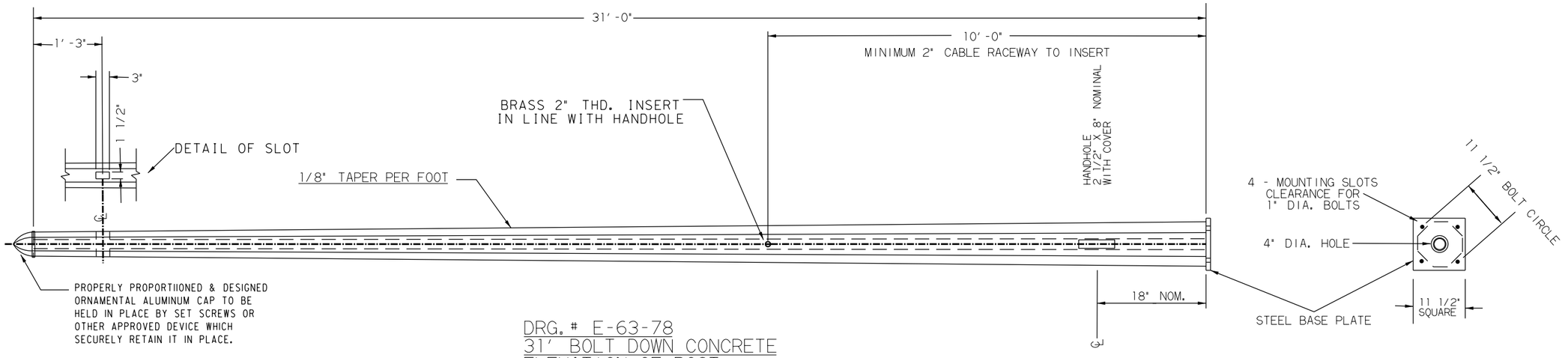
TYPICAL CONDUIT INSTALLATION FOR CROSSING ROADWAYS

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.



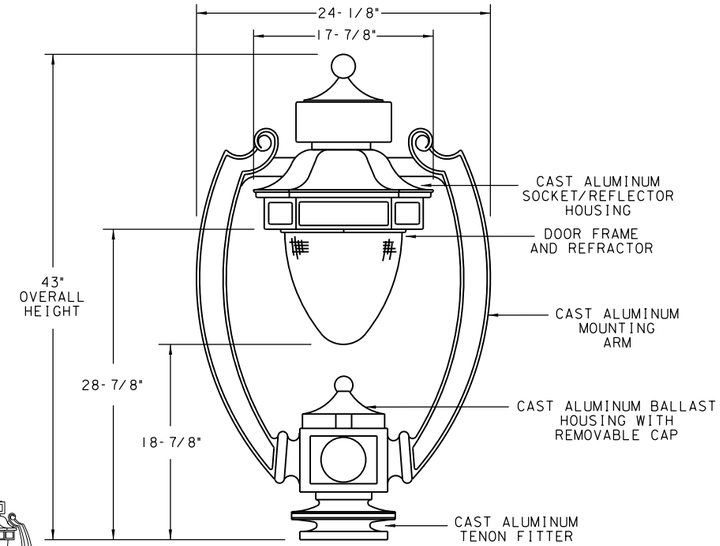
DRG. # E-92-66
26' BOLT DOWN CONCRETE
ELEVATION OF POST



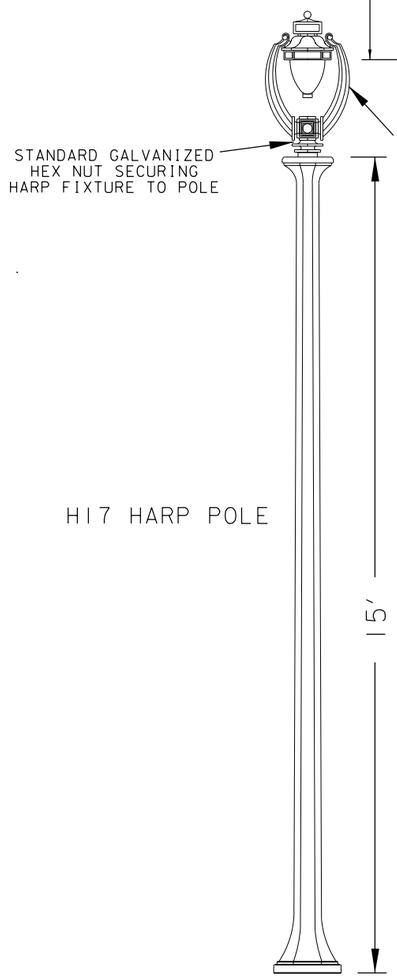
DRG. # E-63-78
31' BOLT DOWN CONCRETE
ELEVATION OF POST

PROJECT NO: 2190–00–70 / 2190–00–71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET 150	E

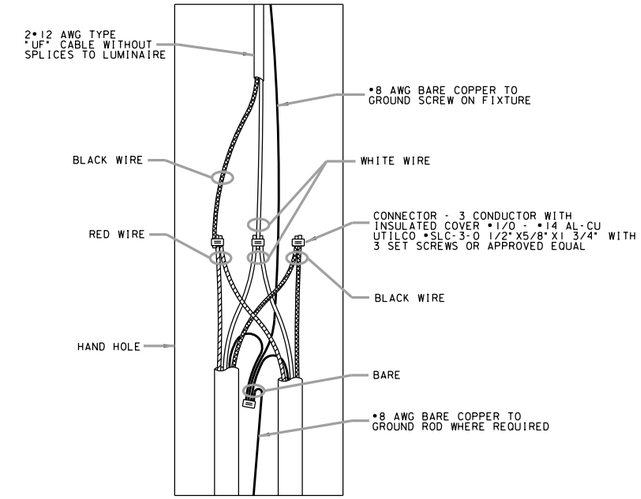
FILE NAME : C:\Users\lhickm\Desktop\details.dgn PLOT DATE : 26-OCT-2017 13:10 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 20.000000:1.000000
WISDOT/CADDS SHEET 42



MILWAUKEE HARP FIXTURE

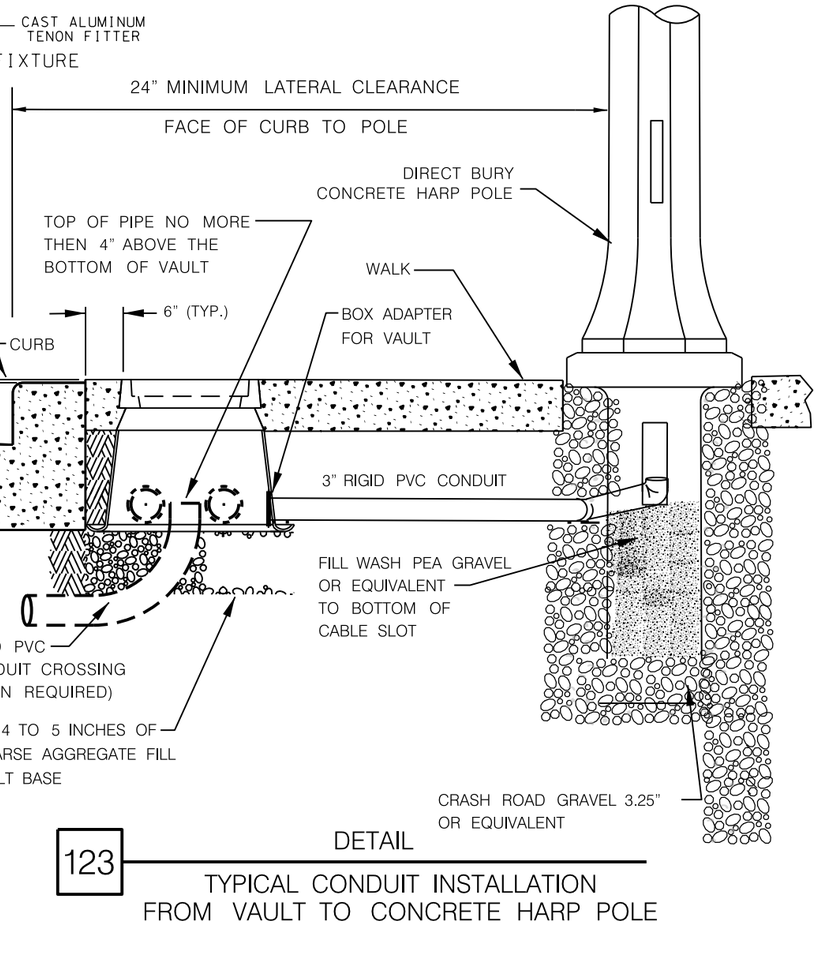


H17 HARP POLE



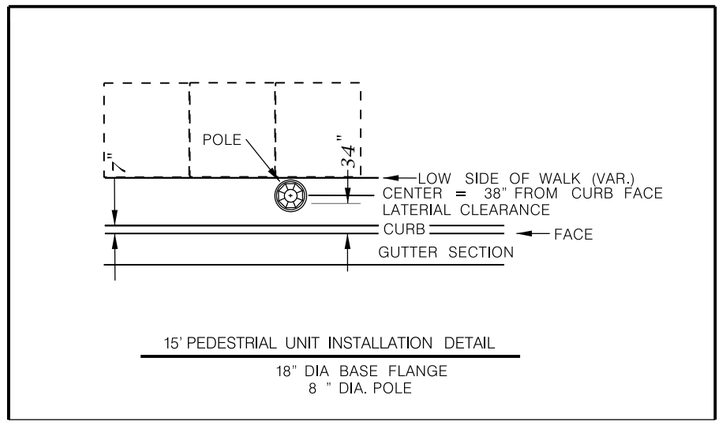
DETAIL

CONNECTIONS WITHIN
HAND HOLE



123 DETAIL

TYPICAL CONDUIT INSTALLATION
FROM VAULT TO CONCRETE HARP POLE



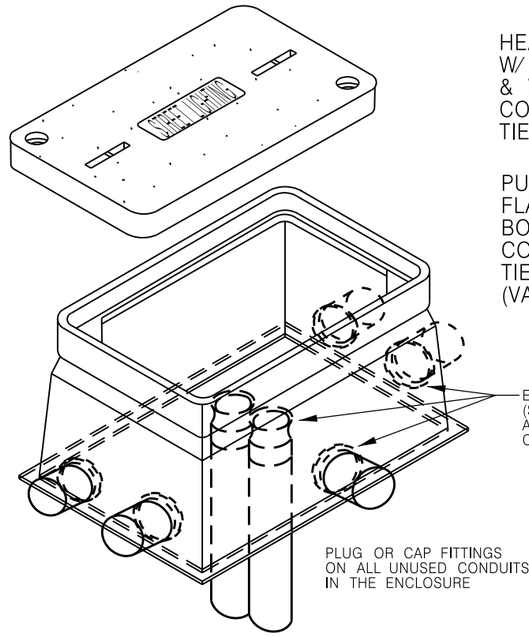
15' PEDESTRIAL UNIT INSTALLATION DETAIL

18" DIA BASE FLANGE
8 " DIA. POLE

SHEET 6 OF 10

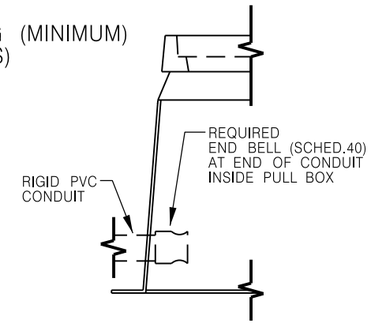
PROJECT NO: 2190–00–70 / 2190–00–71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET 151	E

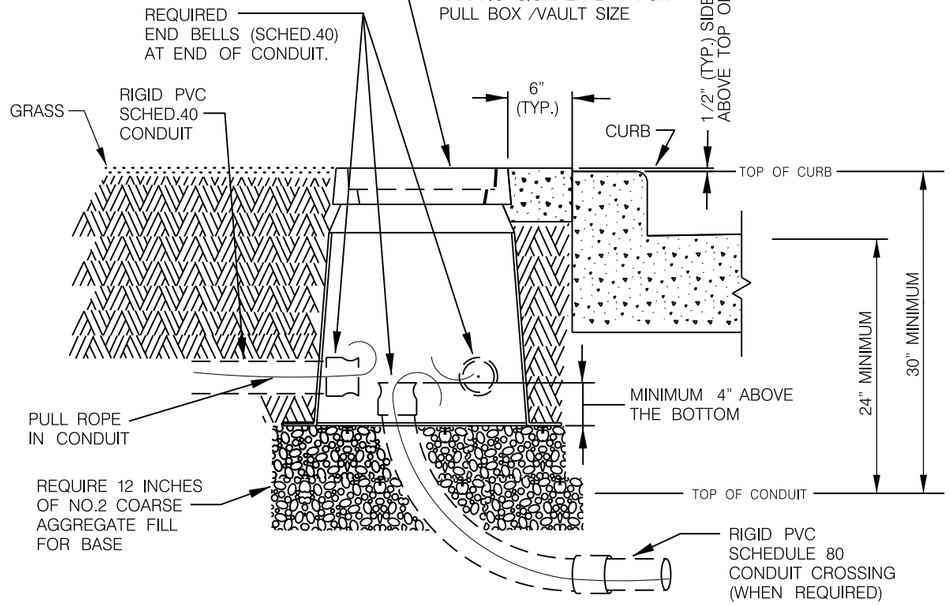
2



HEAVY DUTY COVER
W/ STREETLIGHTING LOGO
& W / 2 BOLTS
COLOR: GRAY
TIER 15 RATING (MINIMUM)

PULL BOX /VAULT
FLARED WALL
BOX W / NO BASE
COLOR: GRAY
TIER 15 RATING (MINIMUM)
(VARIOUS SIZES)





112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION
IN EITHER PAVEMENT OR GRASS AREAS

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER. CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

~~A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).~~

~~THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.~~

~~EXOTHERMIC WELD TO EQUIPMENT GROUNDING CONDUCTOR~~

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL. ANTISIEZE ON THREADS AND BOLTS PRIOR TO POLE PLACEMENT.

~~5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED~~

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER–RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

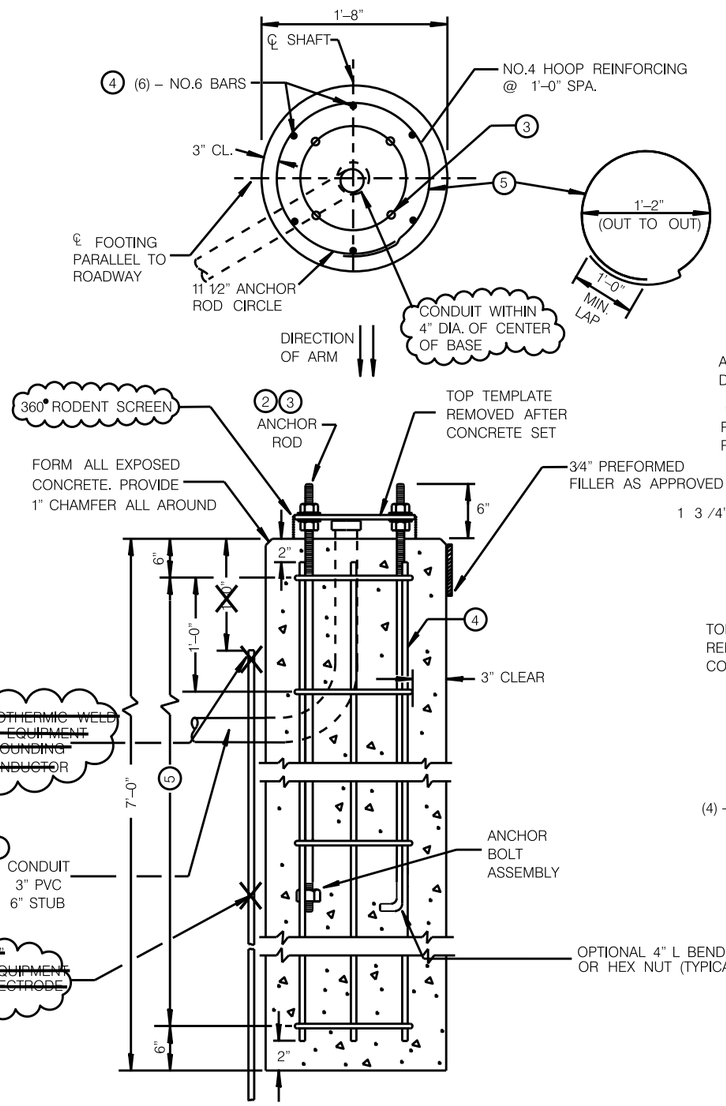
(2) (4) 6" +/– 1/4" ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. ~~RODENT SCREEN REQUIRED.~~

(3) (4) 1" DIA. x 5'–0" ANCHOR RODS.

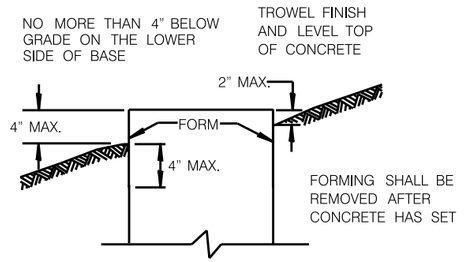
(4) (4) NO. 6 x 6'–8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 x 5'–1" BAR STEEL REINFORCEMENT @ 1'–0 c–c.

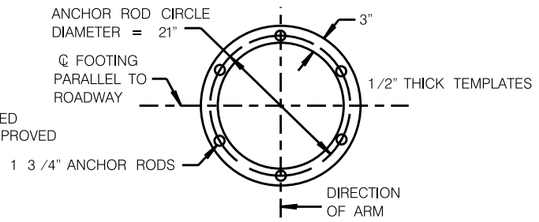
CONCRETE MASONRY	fc = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 105	fy = 105,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy = 36,000 p.s.i.



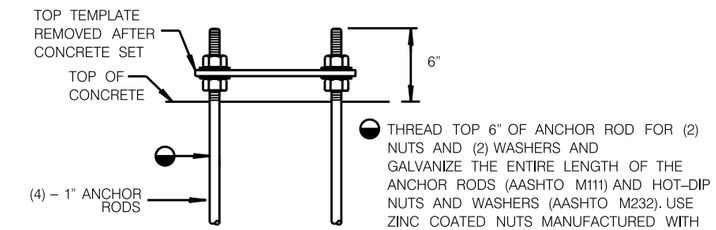
CONCRETE BASE TYPE 2 MODIFIED



FORMING DETAIL



TOP TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 2 MODIFIED

ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	.57
LBS. OF HOOP BAR STEEL	23
LBS. OF VERTICAL BAR STEEL	60

SHEET 8 OF 10

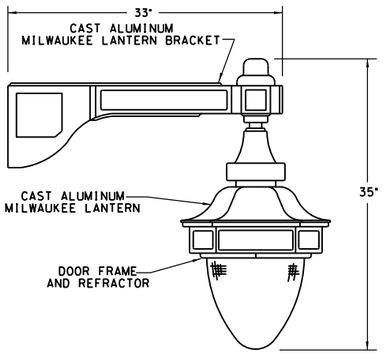
CONCRETE BASE TYPE 2 MODIFIED

CITY OF MILWAUKEE
DEPARTMENT OF PUBLIC WORKS

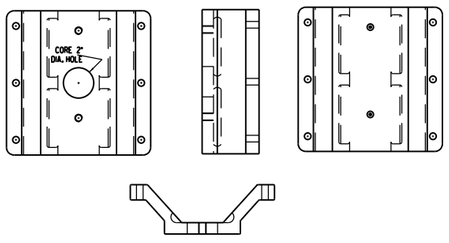
REVISED: 92217 (DATE) 26' & 31' CONCRETE BOLT DOWN (REVISION)
REVISED: (DATE) (REVISION)

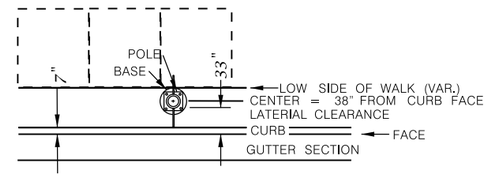
PROJECT NO: 2190–00–70 / 2190–00–71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET 153	E

MILWAUKEE LANTERN AND BRACKET



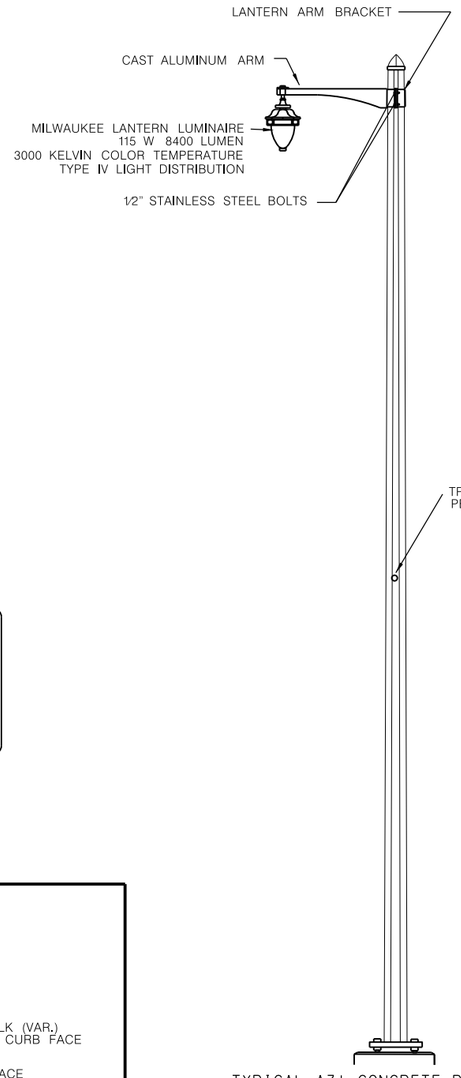
LANTERN ARM BRACKET



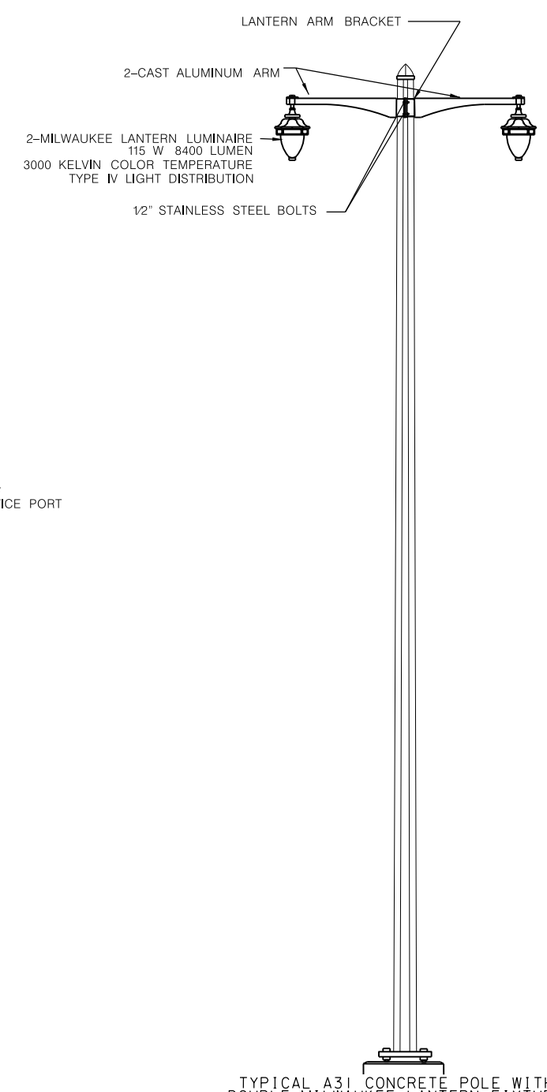


DOUBLE BANNER RATED POLE BASE INSTALLATION DETAIL

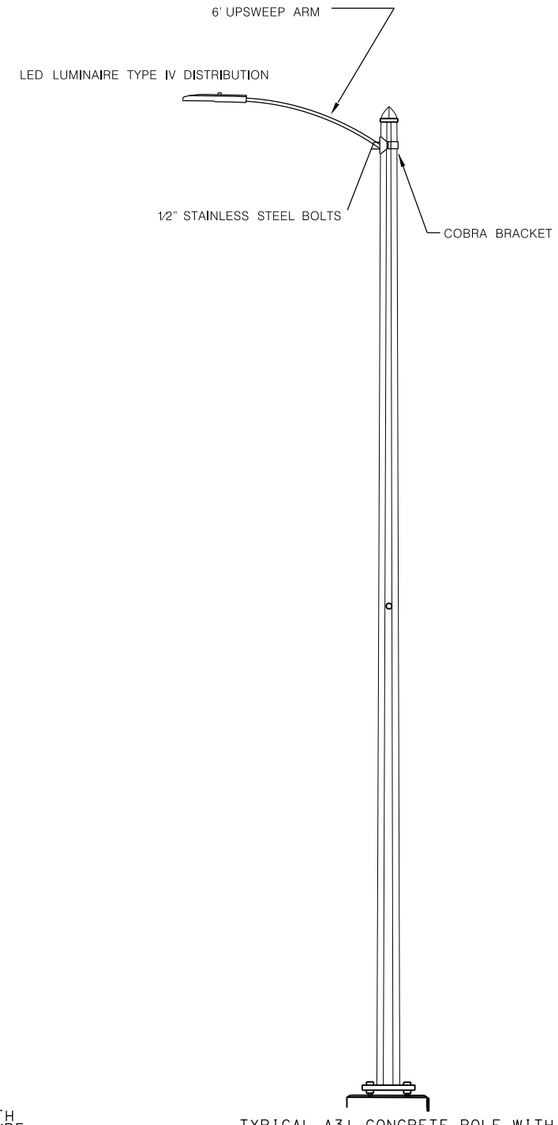
20" DIA BASE
8 OR 10" DIA. POLE



TYPICAL A31 CONCRETE POLE WITH
MILWAUKEE LANTERN FIXTURE
AT WALK



TYPICAL A31 CONCRETE POLE WITH
DOUBLE MILWAUKEE LANTERN FIXTURE
ON MEDIANS

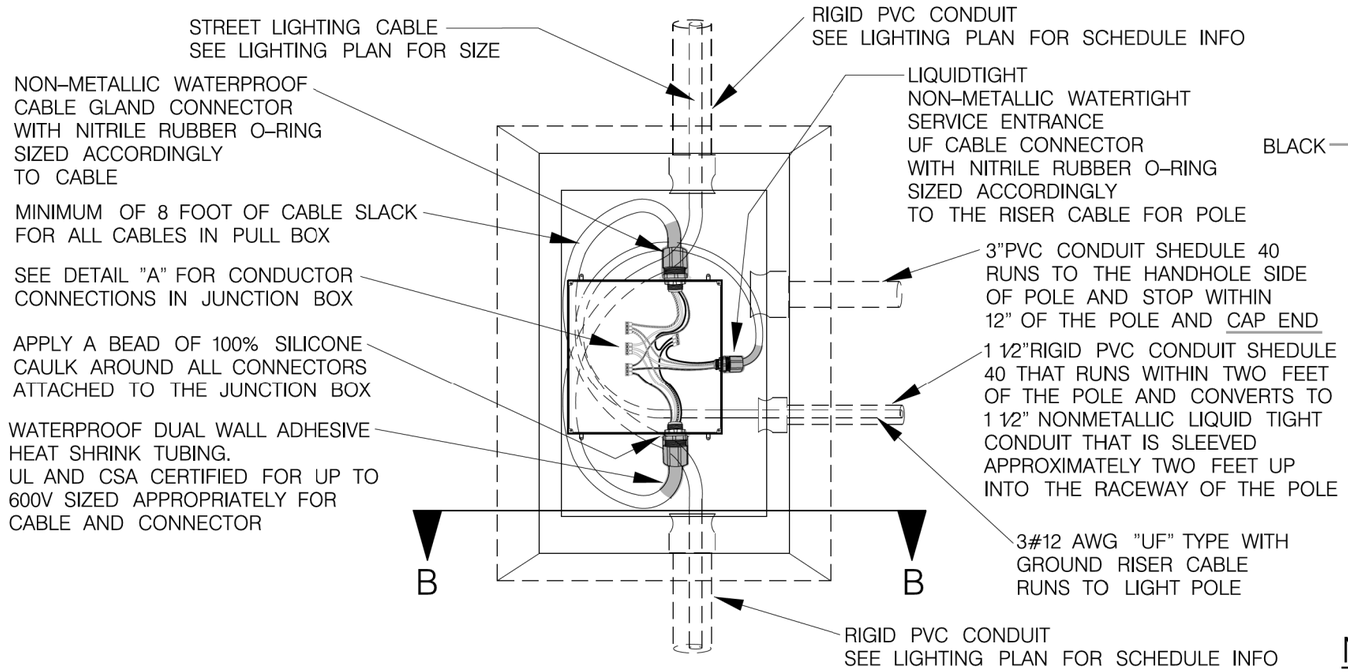


TYPICAL A31 CONCRETE POLE WITH
LED COBRA
AT WALK

SHEET 9 OF 10

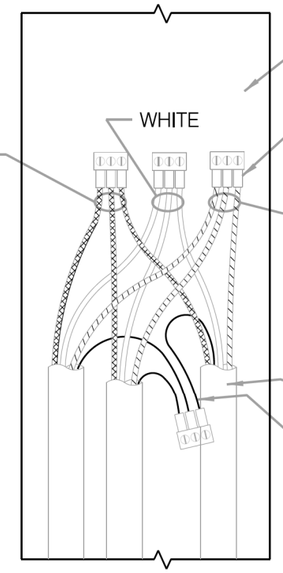
PROJECT NO: 2190-00-70 / 2190-00-71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	STREET LIGHTING DETAILS	SHEET 154	E

FILE NAME : C:\Users\lhickm\Desktop\WISC AVE DETAIL 10.dgn
PLOT DATE : 27-SEP-2017 14:14
PLOT BY : lhickm
PLOT NAME :
PLOT SCALE : 30.000000:1.000000
WISDOT/CADDS SHEET 42



PLAN VIEW

NOT TO SCALE



CIRCUIT SHOULD BE IDENTIFIED
INSIDE JUNCTION BOX

SUBMERSIBLE INSULATED
STREETLIGHTING CONNECTOR:
DESIGNED FOR USE IN BELOW
GRADE BOXES, DIRECT BURIAL
AND SUBMERSIBLE
CONDUCTORS RANGE FROM #20–#14
RATED FOR 600 VOLTS
DUAL RATED FOR CU. OR AL.
INSULATED WITH HIGH DIALECTRIC
STRENGTH ABRASION AND CHEMICAL
RESISTANT RUBBER
SET SCREWS OR APPROVED EQUAL
UL 486D LISTED FOR DIRECT BURIAL
AND SUBMERSIBLE APPLICATIONS

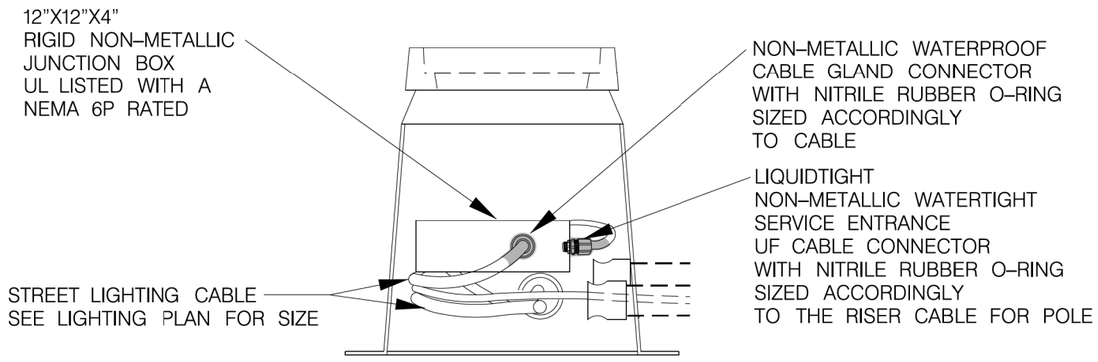
"RISER CABLE"
3#12 AWG TYPE "UF" WITH GROUND
CABLE WITHOUT SPLICES TO HAND
HOLE ON POLE

#8 AWG BARE COPPER

DETAIL "A"

CONNECTIONS WITHIN PULL BOX

NOT TO SCALE



SECTION "B"

NOT TO SCALE

NOTES:

PULL TAPE (5/8–INCH NYLON 1,800 LBS TENSILE STRENGTH) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS–BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.

PROVIDE MINIMUM CABLE SLACK FOR PULL BOXES: 8–FT ONE WAY IN OR OUT

PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINETS, PULL BOXES AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO ASSOCIATED CONDUIT PAY ITEM.

IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES /VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP MANAGERS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.

139 DETAIL

TYPICAL WATERTIGHT JUNCTION BOX
SPLICING WITHIN THE PULL BOX

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

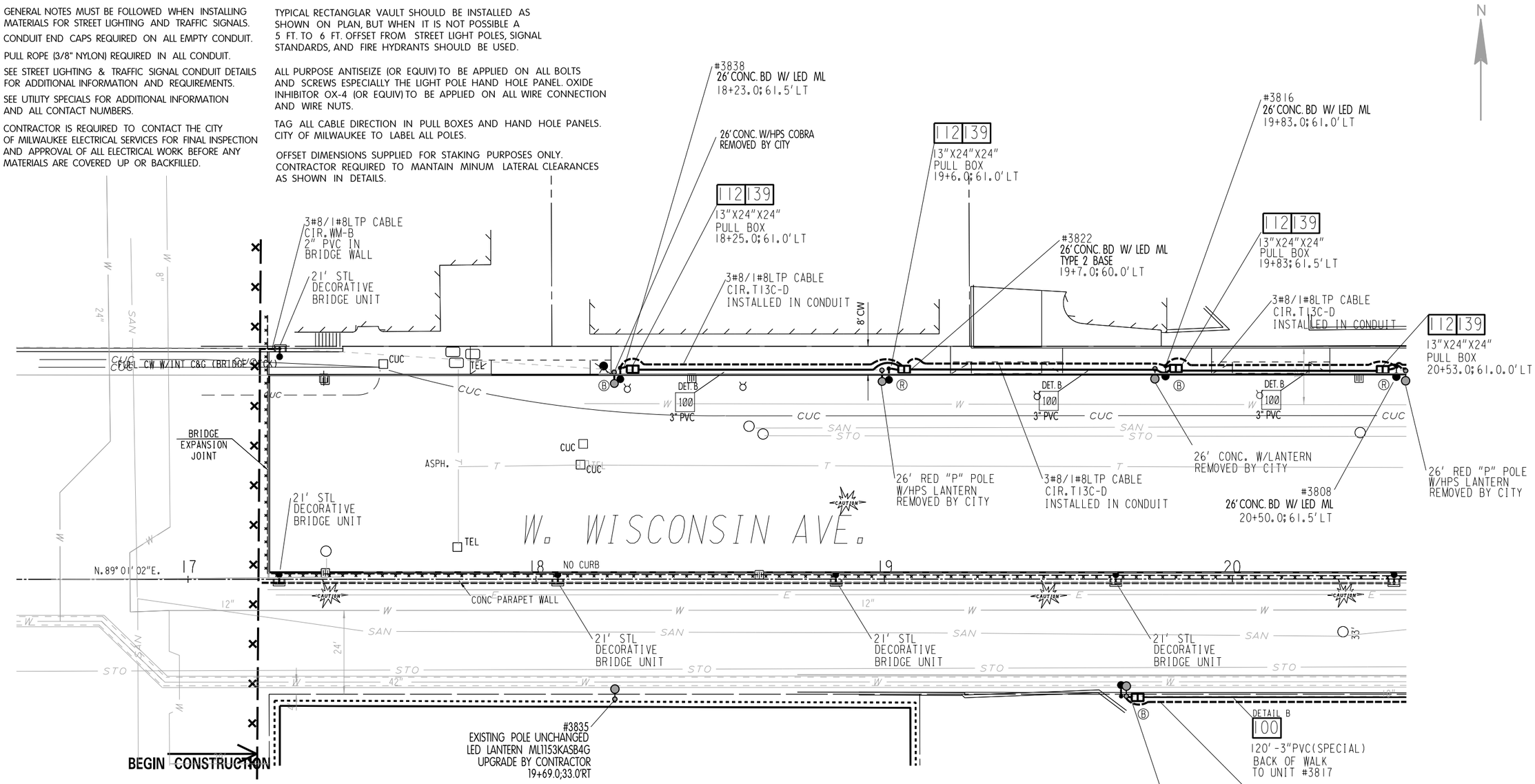
CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS ESPECIALLY THE LIGHT POLE HAND HOLE PANEL. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CITY OF MILWAUKEE TO LABEL ALL POLES.

OFFSET DIMENSIONS SUPPLIED FOR STAKING PURPOSES ONLY. CONTRACTOR REQUIRED TO MANTAIN MINUM LATERAL CLEARANCES AS SHOWN IN DETAILS.



LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER TO MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL PULL POX
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

SCALE, FEET 0 30

SHEET 1 OF 5

PROJECT NO: 2190–00–71	HWY: USH 18	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	156	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

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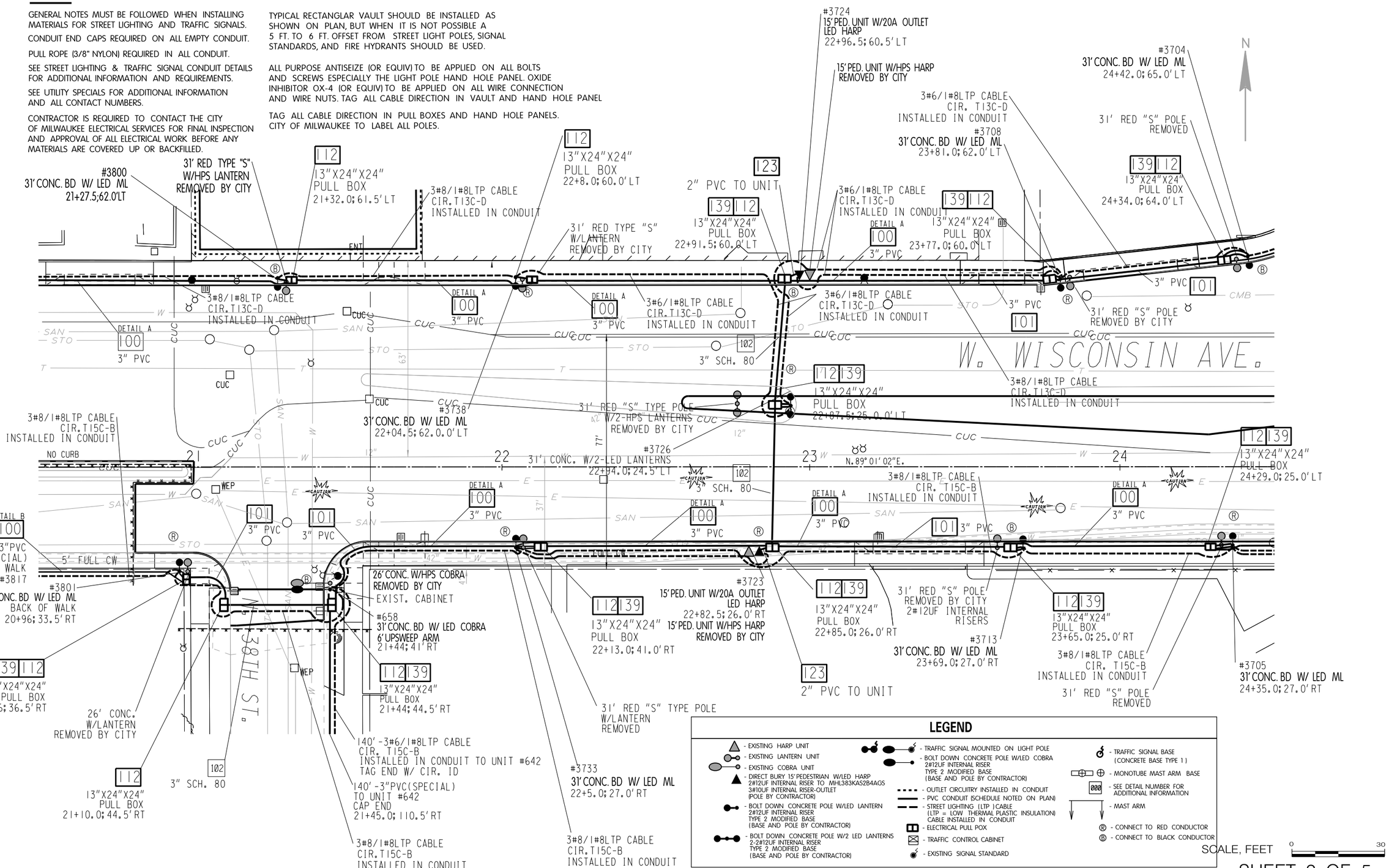

SHEET 2 OF 5

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	157	E

FILE NAME : W:\bes\pavings\2018work\wWisconsin Ave – 38th to 35th (2190-00-71)\wWisconsin – 38-35 conduit – 100%.dgn PLOT DATE : 28-SEP-2017 14:00 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

NOTE:

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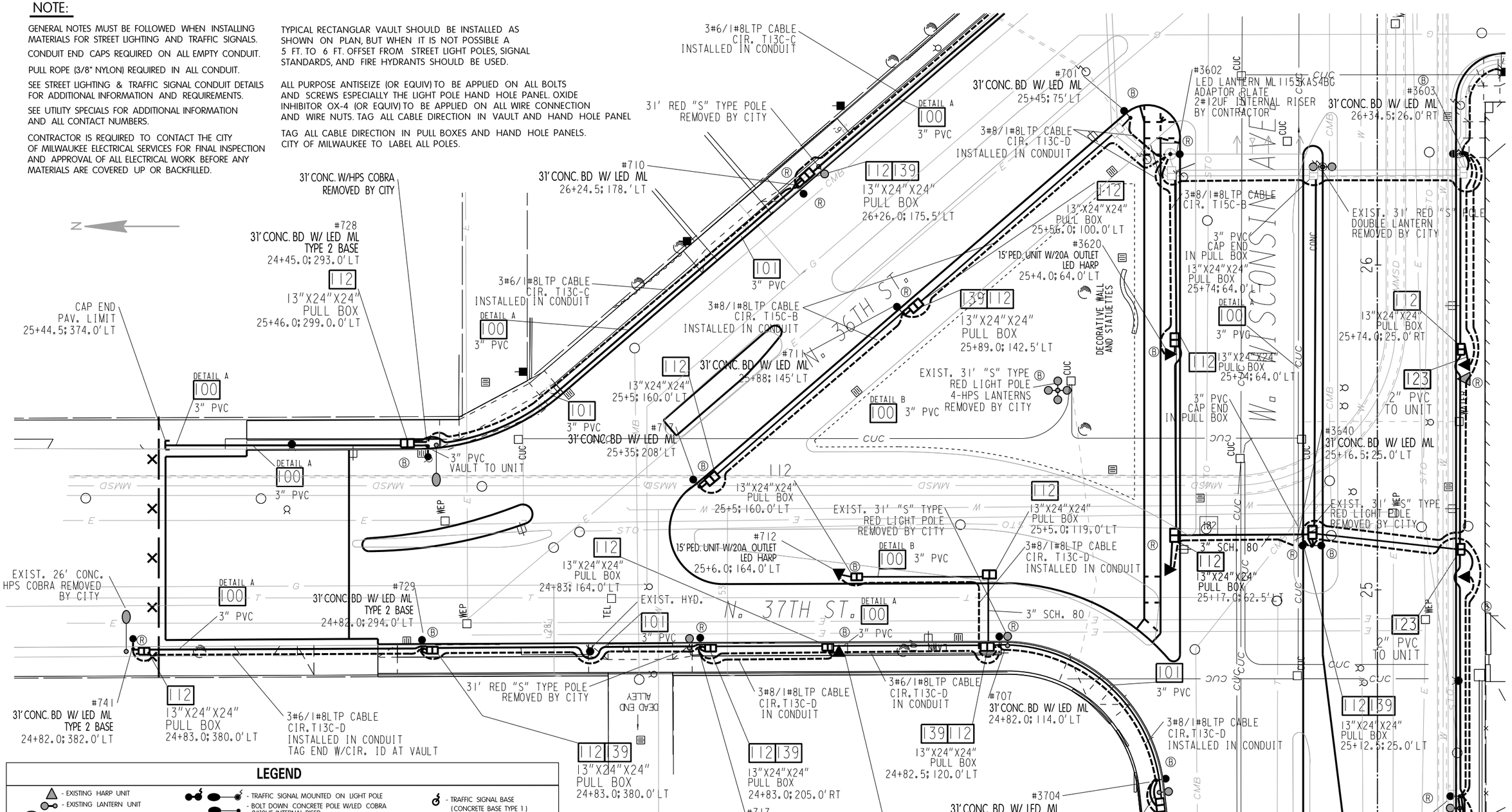

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- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
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- ELECTRICAL PULL POX
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

SHEET 3 OF 5

PROJECT NO: 2190–00–71	HWY: USH 18	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	158	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

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- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- Ⓡ - CONNECT TO RED CONDUCTOR
- Ⓑ - CONNECT TO BLACK CONDUCTOR

N

3#6/1#8LTP CABLE CIR. T13C-C INSTALLED IN CONDUIT

#707 SEE SHT 3 OF 5

#701 SEE SHT 3 OF 5

#3642 15' PED. UNIT W/20A OUTLET LED HARP 25+4.0; 64.0' LT

#3616 EXIST. 31' "S" TYPE REMOVED BY CITY

DECORATIVE WALL AND STATUETTES

13"X24"X24" PULL BOX 25+74; 64.0' RT

13"X24"X24" PULL BOX 25+16.5; 62.5' LT

13"X24"X24" PULL BOX 25+12.5; 64.0' LT

3#6/1#8LTP CABLE CIR. T13C-D INSTALLED IN CONDUIT

#3620 15' PED. UNIT W/20A OUTLET LED HARP 25+4.0; 64.0' LT

3#8/1#8LTP CABLE CIR. T15C-B INSTALLED IN CONDUIT

#3640 31' CONC. W/2-LED LANTERNS TYPE 2 MOD BASE 2-2#12UF INTERNAL RISER 25+16.5; 25.0' LT

TYPE 2 MOD BASE EXIST. 31' RED "S" POLE DOUBLE LANTERN REMOVED BY CITY

13"X24"X24" PULL BOX 25+18.5; 25.0' LT

3" PVC CAP IN PULL BOXES BOTH ENDS

3#8/1#8LTP CABLE CIR. T15C-B INSTALLED IN CONDUIT

#3602 LED LANTERN MLI153KAS4BG ADAPTOR PLATE 2#12UF INTERNAL RISER BY CONTRACTOR

31' CONC. BD W/LED LANTERN MLI153KAS4BG 2#12UF INTERNAL RISER TYPE 2 BASE 25+16.5; 62.0' LT

EXIST. 31' RED "S" POLE DOUBLE LANTERN REMOVED BY CITY

#3605 31' CONC. BD W/ LED ML 26+35.0; 26.0' RT

31' TYPE 'S' POLE W/LANTERN REMOVED BY CITY

#702 LED LANTERN MLI153KAS4BG ADAPTOR PLATE 2#12UF INTERNAL RISER BY CONTRACTOR

31' TYPE 'S' POLE W/LANTERN REMOVED BY CITY

15' PED. UNIT REMOVED BY CITY

#3528 15' PED. UNIT W/20A OUTLET LED HARP 28+19.0; 64.0' LT

2.0" PVC PULL BOX TO PED. UNIT

13"X24"X24" PULL BOX 28+16.0; 62.0' LT

3#8/1#8LTP CABLE TO HARP UNIT #3528 CIR. T13C-C INSTALLED IN CONDUIT

3#6/1#8LTP CABLE CIR. T13C-C INSTALLED IN CONDUIT

3#8/1#8LTP CABLE TO HARP UNIT #3528 CIR. T13C-C INSTALLED IN CONDUIT

3#6/1#8LTP CABLE CIR. T13C-C INSTALLED IN CONDUIT

3#8/1#8LTP CABLE TO HARP UNIT #3528 CIR. T13C-C INSTALLED IN CONDUIT

#3518 31' CONC. BD W/2-LED LANTERNS ML I153KAS4BG 2-2#12UF INTERNAL RISERS TYPE 2 BASE 28+62.0; 24.5' LT

13"X24"X24" PULL BOX 28+7.0; 20.5' LT

2.0" PVC PULL BOX TO PED. UNIT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#8/1#8LTP CABLE CIR. T15C-A INSTALLED IN CONDUIT EXIST. 15' PED. UNIT REMOVED BY CITY

3#8/1#8LTP CABLE CIR. T15C-A INSTALLED IN CONDUIT

#3529 15' PED. UNIT W/20A OUTLET LED HARP 27+97.0; 26.0' RT

#3531 LED LANTERN MLI153KAS4BG ADAPTOR PLATE 2#12UF INTERNAL RISERS BY CONTRACTOR

31' RED "S" POLE REMOVED BY CITY

3#8/1#8LTP CABLE CIR. T15C-A INSTALLED IN CONDUIT

13"X24"X24" PULL BOX 25+74.0; 26.0' RT

CALL BOX TO REMAIN

DET. POLE REMOVED BY CITY

3#8/1#8LTP CABLE CIR. T15C-A INSTALLED IN CONDUIT

#659 LED LANTERN MLI153KAS4BG ADAPTOR PLATE 2#12UF INTERNAL RISER BY CONTRACTOR

MULTIPLE SPLICE KIT IN PULL BOX BY CITY

EXISTING 3#8/1#8LTP CABLE CIR. T15C-A IN CONDUIT

EXIST. CONDUIT TO PULL BOX

13"X24"X24" PULL BOX 2" PVC TO UNIT 25+12.5; 26.0' RT

3#8/1#8LTP CABLE CIR. T15C-B INSTALLED IN CONDUIT

2" PVC TO UNIT

3#8/1#8LTP CABLE CIR. T15C-B INSTALLED IN CONDUIT

3#8/1#8LTP CABLE CIR. T15C-B INSTALLED IN CONDUIT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

#3641 15' PED. UNIT W/20A OUTLET LED HARP 25+4.0; 27.0' RT

#3619 15' PED. UNIT W/20A OUTLET LED HARP 25+69.0; 27.0' RT

W. WISCONSIN AVE.

SCALE, FEET 0 30

SHEET 4 OF 5

PROJECT NO: 2190–00–71	HWY: USH 18	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	159	E

SCALE, FEET 0 30

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CITY OF MILWAUKEE TO LABEL ALL POLES.

N. 35TH ST.

W. WISCONSIN AVE.

112 13"X24"X24" PULL BOX 25+12.5; 25.0' LT

#707 EXIST. 31' CONC. W/LANTERN CONNECTION MADE BY CITY 29+98.5; 142.0' LT

3#8/1#8LTP; CIR. T13C-C INSTALLED IN CONDUIT TAG END W/CIR ID AT VAULT

EXIST. 13"X24"X24" PULL BOX TO REMAIN 30+66.0; 146.0' LT

60'-3#6/1#8LTP TO UNIT #718 CIR. T13C-B CABLE BY CONTRACTOR CONNECTION BY CITY

EXIST. 13"X24"X24" PULL BOX REMAIN IN SERVICE

#708 15' PED. UNIT TO REMAIN DO NOT ALTER CONFIGURATION

3#6/1#8LTP CABLE CIR. T13C-B INSTALLED IN CONDUIT

3"PVC(SPECIAL)

3"PVC (SPECIAL)

EXIST. 31' RED "S" W/LANTERN REMOVED BY CITY

15' PED. UNIT REMOVED BY CITY

#3504 TYPE 10 SPECIAL BASE TYPE 13 POLE W/MAST & LED LANTERN ML1153KAS4BG 2#12UF INTERNAL RISERS 2-3" PVC BASE TO VAULT

#3514 15' PED. UNIT W/20A OUTLET LED HARP 29+7.0; 64.0' LT

BRICK COLUMNS

BRICK WALL

17"X30"X24" PULL BOX

CONC BASE

112 13"X24"X24" PULL BOX 29+3.0; 63.5' LT

123 2.0" PVC PULL BOX TO PED. UNIT

3#8/1#8LTP CABLE TO HARP UNIT #3514 CIR. T13C-C INSTALLED IN CONDUIT

3" PVC

3" PVC

3#6/1#8LTP CABLE CIR. T13C-C INSTALLED IN CONDUIT

3#8/1#8LTP CABLE CIR. T13C-C INSTALLED IN CONDUIT

EXIST. 31' RED "S" POLE REMOVED BY CITY

102 3" SCH. 80

3" PVC INSTALLED 2' BEHIND CURB CONC

112 13"X24"X24" PULL BOX 25+12.5; 24.5' RT

31' CONC. W/SIG. ARM REMOVED BY CITY

SEE SHT 4

3" PVC INSTALLED 2' BEHIND CURB

EXIST. SIG. CABINET TO BE RELOCATED

102 3-3"PVC

31' RED "S" W/SIG. ARM REMOVED BY CITY PERIPHERAL DEVICES TRANSFERED BY CITY

31' CONC. W/LANTERN REMOVED BY CITY

WEP

1.5";2" PVC PULL BOX TO UNIT

#3488 31' CONC. W/LED LANTERN INSTALLED BY CITY 30+88.0; 58.0' LT

112|139 13"X24"X24" PULL BOX 22+8.0; 57.0' LT

#3432 31' CONC. BD W/ LED ML 5' OFF DW APPROACH 31+58.0; 58.0' LT

#3432 31' CONC. BD W/ LED ML 32+50.0; 58.0' LT

112 13"X24"X24" PULL BOX 32+54.0; 57.0' LT

1.5";2" PVC PULL BOX TO UNIT

ASPH DWY

31' CONC. W/LANTERN REMOVED BY CITY

101 3" PVC

GROUND DETAIL A 100 3" PVC

GROUND 4CR DETAIL A 100 3" PVC

CONC

END CONSTRUCTION

3#8/1#8LTP CABLE CIR. T13C-C INSTALLED IN CONDUIT

EXIST. 31' "S" TYPE LIGHT POLE REMOVED BY CITY

112|139 13"X24"X24" PULL BOX 31+69.0; 22.5' RT

315 CONC. W/HPS LANTERN REMOVED BY CITY

END CONSTRUCTION

#3423 31' CONC. BD W/ LED ML 32+51.0; 22.0' RT

112|139 13"X24"X24" PULL BOX 32+44.0; 22.5' RT

#3433 31' CONC. BD W/ LED ML 31+76.0; 22.0' RT

BUSHES @ HIGH CW

#3443 TYPE 10 SPECIAL BASE TYPE 13 POLE W/ LED LANTERN ML1153KAS4BG 2#12UF INTERNAL RISERS

3#8/1#8LTP CABLE CIR. WF-B INSTALLED IN CONDUIT

GRAVEL

LAWN

BUS SHELTER

CALL BOX

LIGHT POLES & BUSHES

5CR

BUS SHELTER

CUC

CONC

CMB

CMU

CMP

TEL

WEP

FULL CW

1/4 SEC LINE

MON.

HYD. TO BE RELOCATED 180° 08' 13"

102 3-3"PVC 31' CONC. W/SIG. ARM TO BE REMOVED BY CITY

3-3" SCH. 80

3-3"PVC

17"X30"X24" PULL BOX

40' ARM

35' ARM

30' ARM

DETAIL A 100 3" PVC

#3521 15' PED. UNIT W/20A OUTLET LED HARP 29+8.5; 26.5' RT

112 13"X24"X24" PULL BOX 28+98.0; 26.0' RT

123 2.0" PVC PULL BOX TO PED. UNIT

CONC PILLARS

EXIST. 15' PED. UNIT REMOVED BY CITY

31' CONC.W/ SIGNAL ARM REMOVED BY CITY

PLANTINGS

ASPH. PARKING

#3503 EXIST. 31' CONC. W/LANTERN LED UPGRADE BY CITY PERIPHERAL DEVICES TO REMAIN 29+81.0; 26.5' RT

3#8/1#8LTP CABLE CIR. T15C-A INSTALLED IN CONDUIT

#641 TYPE 10 SPECIAL BASE TYPE 13 POLE W/ MAST & LED LANTERN ML1153KAS4BG 2#12UF INTERNAL RISERS ADAPTOR PLATE BY CONTRACTOR

17"X30"X24" PULL BOX

90'-3#6/1#8LTP CABLE CIR. T15C-A INSTALLED IN CONDUIT TO UNIT #633 TAG END W/ CIR. ID 30+6.5; 133.5' RT

3"PVC(SPECIAL) TO UNIT #633 CAP END 30+6.5; 133.5' RT

3"PVC(SPECIAL) TO UNIT #623 CAP END 30+6.5; 134.5' RT

90'-3#8/1#8LTP CABLE CIR. WF-B INSTALLED IN CONDUIT TO UNIT #623 TAG END W/ CIR. ID 24+82.5; 208.5' LT

#642 112 31' CONC. BD W/ LED ML 24+82.5; 208.5' LT

EXIST. 31' CONC. UNIT REMOVED BY CITY

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER TO MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL PULL POX
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

SHEET 5 OF 5

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	160	E

2

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- ØØØ - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- Ⓡ - CONNECT TO RED CONDUCTOR
- Ⓑ - CONNECT TO BLACK CONDUCTOR

N

#707
EXIST. 31' CONC.W/LANTERN
CONNECTION MADE BY CITY

13"x24"x24"
PULL BOX

3"PVC (SPECIAL)

10'-3#8/1#8LTP TO CONNECT TO #707
CIR. T13C-C
TAG END & COIL IN VAULT

#3504
TYPE 10 SPECIAL BASE
TYPE 13 POLE W/
LED LANTERN ML1153KAS4BG
2#12 UF INTERNAL RISERS
2-3" PVC BASE TO VAULT

3#8/1#8LTP CIR. T13C-C
INSTALLED IN CONDUIT

31' RED "S" W/LANTERN
REMOVED BY CITY

WALGREENS

FULL CW

17"x30"x24"
PULL BOX
3-3" SCH. 80

3-3" PVC

3" PVC

2-3#8/1#8LTP CABLE
CIR.T13C-C
INSTALLED IN CONDUIT

17"x30"x24"
PULL BOX
3-3" SCH. 80

17"x30"x24"
PULL BOX

31' CONC. W/SIG. ARM
REMOVED BY CITY

72" MMSD

17"x30"x24"
PULL BOX

3" PVC

CONC

CONC
PILLARS

#3505
EXIST.31' CONC.W/LANTERN
LED UPGRADE BY CITY
PERIPHERAL DEVICE TO REMAIN

3#8/1#8LTP CABLE
CIR.T15C-A
INSTALLED IN CONDUIT
#641
TYPE 10 SPECIAL BASE
TYPE 13 POLE W/
LED LANTERN ML1153KAS4BG
2#12 UF INTERNAL RISERS

30'-3#6/1#8LTP CABLE
CIR.T15C-A
INSTALLED IN CONDUIT TO UNIT #633
TAG END W/CIR. ID

75'-3" PVC (SPECIAL)
TO UNIT #633
CAP END

EXIST. 13"x24"x24"
PULL BOX TO REMAIN

60'-3#6/1#8LTP CABLE TO UNIT #718
CABLE BY CONTRACTOR
CONNECTION BY CITY

#708
15' PED UNIT TO REMAIN

3#6/1#8LTP CABLE
CIR.T13C-B
INSTALLED IN CONDUIT

3" PVC (SPECIAL)

TYPE 10 BASE
TYPE 10 POLE W/
LED LANTERN ML1153KAS4BG
2#12 UF INTERNAL RISERS
2-3" PVC BASE TO VAULT

3#8/1#8LTP CABLE
CIR.T13C-B
INSTALLED IN CONDUIT

31' RED "S" W/
SIG. ARM REMOVED BY CITY
PERIPHERAL DEVICES
REMOVED/RELOCATED BY CITY

CALL BOX

FLAGPOLES &
BUSHES

#3438
31' CONC. BD W/ LED ML
TYPE 2 BASE

WALL

BUS
SHELTER

TROOP CAFE
#3430

#3443
15' PED. UNIT W/20A OUTLET
LED HARP

31' CONC W/ LANTERN
REMOVED BY CITY

#3432
31' CONC. BD W/LED LANTERN
5' OFF DW APPROACH
TYPE 2 BASE

3#8/1#8LTP CABLE
CIR.WF-A
INSTALLED IN CONDUIT

#3422
123
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 108+15;57.0 LT

3#6/1#8LTP CABLE
CIR.WF-A
INSTALLED IN CONDUIT

BEGIN CONSTRUCTION

3#6/1#8LTP CABLE
CIR.WF-A
INSTALLED IN CONDUIT

139 | 112
13"x24"x24"
PULL BOX
STA. 106+22
57.0 LT

DET. B
100
3" PVC

RANDOLPH GRAND MANOR

3" PVC

112 | 123
13"x24"x24"
PULL BOX

3" PVC
PULL BOX TO UNIT

112
13"x24"x24"
PULL BOX

EXIST. 26' RED CONC.
"PD" LIGHT POLE
REMOVED BY CITY

#3432
31' CONC. BD W/ 2-LED ML
2-2#12UF RISERS
STA. 105+65;18.0 LT

26' CONC. W/ HPS ML
REMOVED BY CITY

#3412
31' CONC. BD W/ LED LANTERN
STA. 106+22;57.0 LT

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT

#3411
31' CONC. BD W/LED ML
STA. 106+16;25.0 LT

CAUTION

#3444
31' CONC. BD W/ 2-LED ML
TYPE 2 BASE
W/2-2#12UF RISERS
STA. 108+3;13.0 LT

17"x30"x24"
PULL BOX

SEE U.S.HWY 18
EQUIPMENT SCHEDULE
STA. 104+00 WESTWARD

3" PVC INSTALLED
2' BEHIND CURB

W. WISCONSIN AVE

35TH ST

102 | 103 | 104 | 105 | 106

3-3" SCH. 80
17"x30"x24"
PULL BOX

3#8/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

3#8/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

112
13"x24"x24"
PULL BOX

3#8/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

112 | 123
13"x24"x24"
PULL BOX

DET. B
100
3" PVC

3#8/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

LAWN

#3423
15' PED. UNIT W/20A OUTLET
LED HARP

#3433
31' CONC. BD W/ LED ML

BEGIN CONSTRUCTION

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT

112 | 139
13"x24"x24"
PULL BOX
3" PVC TO BASE
STA. 106+13;23.0 RT

3#6/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

31' CONC. LIGHT POLE
W/SIG. ARM
REMOVED BY CITY

17"x30"x24"
PULL BOX

35' ARM

#3503
EXIST. 31' CONC. W/LANTERN
CONNECTION MADE BY CITY

3-3" SCH. 80

3#8/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

#3443
TYPE 10 SPECIAL BASE
TYPE 13 POLE W/
LED LANTERN ML1153KAS4BG
2#12 UF INTERNAL RISERS
2-3" PVC BASE TO VAULT

31' CONC. LIGHT W/SIG. ARM
REMOVED BY CITY

31' CONC. LIGHT POLE
REMOVED BY CITY

75'-3" PVC (SPECIAL)
TO UNIT #623
CAP END

70'-3#8/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT TO UNIT #623
TAG END W/CIR. ID

31' RED "S" W/HPS LANTERN
REMOVED BY CITY

#3443
15' PED. UNIT W/20A OUTLET
LED HARP

40' ARM

1/4 SEC LINE

TE&ES

CMB

CUC

WEP

FULL CW

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

SCALE, FEET 0 30

SHEET 1 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 161	E

2

N

N. 34TH ST.

W. WISCONSIN AVE.

OFFICE BLDG.

HOUSE (LAW OFFICE)

VACANT

APTS.

HOUSE

MARQUETTE UNIVERSITY HIGH SCHOOL

PLANTER

SPRINKLER VALVES

FULL CW

LAWN

3#6/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

112 | 13"x24"x24" PULL BOX STA. 107+37;73.0 LT

101 | 3" PVC

102 | 3" SCH. 80

123 | 13"x24"x24" PULL BOX STA. 107+96;57.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

#702 26' CONC. BD W/ LED COBRA STA. 107+70;85.0 LT

2" PVC PULL BOX TO UNIT

112 | 139 | 13"x24"x24" PULL BOX STA. 107+70;74.0 LT

#3333 15' PED. UNIT W/20A OUTLET LED HARP STA. 108+15;57.0 LT

#3314 31' CONC. BD W/LED ML STA. 107+66;57.0 LT

112 | 139 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 107+60;57.0 LT

112 | 139 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 109+66;57.0 LT

#3228 31' CONC. BD W/LED ML STA. 109+69;57.0 LT

#3224 15' PED. UNIT W/20A OUTLET LED HARP STA. 110+23;23.0 LT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#8/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

26' CONC. W/HPS ML REMOVED BY CITY

#3220 31' CONC. BD W/LED ML STA. 110+84;57.0 LT

DET. B 100 | 3" PVC

#3402 31' CONC. BD W/ LED COBRA STA. 107+18;58.0 LT

EXIST. HYD.

3" PVC INSTALLED 2' BEHIND CURB

26' CONC. W/ HPS ML REMOVED BY CITY

139 | 112 | 13"x24"x24" PULL BOX 3" PVC PULL BOX TO BASE STA. 107+15;58.0 LT

#3405 31' CONC. BD W/ 2-LED ML STA. 106+87;13.0 LT

112 | 13"x24"x24" PULL BOX 3" PVC TO T2 STA. 107+15;20.0 LT

139 | 112 | 13"x24"x24" PULL BOX 3" PVC TO T2 STA. 107+96;22.0 LT

#3328 31' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 108+3;18.0 LT

3#8/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

26' CONC. W/HPS ML REMOVED BY CITY

112 | 123 | 13"x24"x24" PULL BOX STA. 108+12;57.0 LT

#3302 15' PED. UNIT W/20A OUTLET LED HARP STA. 108+15;57.0 LT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

26' CONC. W/HPS ML REMOVED BY CITY

112 | 123 | 13"x24"x24" PULL BOX STA. 108+12;57.0 LT

112 | 139 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 110+78;57.0 LT

139 | 112 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 107+7;23.0 RT

26' CONC. W/ HPS ML REMOVED BY CITY

31' CONC. W/ 2-HPS ML REMOVED BY CITY

15' PED. UNIT W/HPS HARP REMOVED BY CITY

112 | 139 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 108+64;22.0 RT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 | 139 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 109+79;23.0 LT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

26' CONC. W/ HPS ML REMOVED BY CITY

#3229 31' CONC. BD W/LED ML STA. 109+81;23.0 RT

#3301 15' PED. UNIT W/20A OUTLET LED HARP STA. 109+20;23.0 RT

112 | 123 | 13"x24"x24" PULL BOX STA. 109+15;22.0 RT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#3313 31' CONC. BD W/LED ML STA. 107+66;23.0 RT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#3331 15' PED. UNIT W/20A OUTLET LED HARP STA. 108+4;23.0 RT

112 | 123 | 13"x24"x24" PULL BOX STA. 107+96;22.0 RT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#3401 31' CONC. BD W/ LED ML STA. 107+18;25.0 RT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

#3225 15' PED. UNIT W/20A OUTLET LED HARP STA. 110+27;23.0 RT

112 | 123 | 13"x24"x24" PULL BOX STA. 110+23;22.0 RT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

139 | 112 | 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 110+75;23.0 RT

26' CONC. W/HPS ML REMOVED BY CITY

#3227 31' CONC. BD W/LED ML STA. 110+78.0;25.0 RT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

DET. B 100 | 3" PVC

DET. 1 100 | 3" PVC

107 | 108 | 109 | 110 | 111 | +50

1/4 SECTION LINE

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

SCALE, FEET 0 30

SHEET 2 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 162	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

N. 32ND ST

W. WISCONSIN AVE.

N. 31ST ST

HUDSON APTS.

APTS. #3120-3128

AVENUE WEST APTS. #3100

BUS SHELTER

112 13"x24"x24" PULL BOX STA. 112+00;80.0 LT

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

26' CONC. W/HPS ML REMOVED BY CITY

#3202 31' CONC. BD W/LED ML STA. 111+65;57.0 LT

3#6/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

#702 26' CONC. W/HPS COBRA REMOVED BY CITY

#702 26' CONC. W/LED COBRA STA. 112+33;92.0 LT

112 139 13"x24"x24" PULL BOX STA. 112+33;80.0 LT

2-3"PVC TO EXIST. SIGNAL CABINET

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX STA. 112+46;56.0 LT

TYPE 10 SPECIAL BASE TYPE 12 POLE

EXIST. 26' CONC. LIGHT POLE REMOVED BY CITY

#3130 31' CONC. BD W/LED ML STA. 113+575;57.0 LT

EXIST. 26' CONC. COBRA REMOVED BY CITY

#3110 31' CONC. BD W/LED ML STA. 114+36;57.0 LT

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

EXIST. 26' CONC. COBRA REMOVED BY CITY

#3102 31' CONC. BDW/LED ML STA. 115+9;57.0 LT

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 115+5;56.0 LT

CAP END AT PAV. LIMIT STA. 115+30;84.0 RT

112 13"x24"x24" PULL BOX STA. 115+30;73.0 LT

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 139 13"x24"x24" PULL BOX STA. 115+63;73.0 LT

#702 26' CONC. BD W/LED COBRA STA. 115+62;71.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

DET. B 100 3" PVC

102 3" SCH. 80

101 3" PVC

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 111+64;57.0 LT

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 112+46;22.0 LT

DET. C 100 3" PVC

40' ARM

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 112+79;56.0 LT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 113+60;56.0 LT

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 114+33;56.0 LT

102 2-3" SCH. 80

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 113+74;12.0 LT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 112+46;22.0 RT

#3206 31' CONC. BD W/ 2-LED ML TYPE 2 BASE 2-2#12UF RISERS STA. 112+73;17.0 LT

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 113+72;23.0 RT

30' ARM

102 2-3" SCH. 80

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 114+89;23.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 115+64;23.0 RT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 111+56;22.0 RT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#6/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

26' CONC. W/HPS ML REMOVED BY CITY

#3223 31' CONC. BD W/LED ML STA. 111+60;25.0 RT

26' CONC. W/HPS ML REMOVED BY CITY

#3207 31' CONC. BD W/LED ML STA. 112+30;25.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

#639 26' CONC. BD W/LED COBRA STA. 111+60;23.0 RT

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 113+8;40.0 RT

3" PVC VAULT TO TUBE

#3133 TYPE 10 SPECIAL BASE TYPE 12 POLE LED LANTERN ML1153KAS4BG 2#12 UF INTERNAL RISERS

112 13"x24"x24" PULL BOX STA. 113+42; 40.0 RT

26' CONC. UNIT W/ARM HPS COBRA REMOVED BY CITY

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 114+28;23.0 RT

#3125 31' CONC. BD W/LED ML STA. 114+30;25.0 RT

EXIST. 26' RED CONC. PD LIGHT POLE REMOVED BY CITY

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#3111 31' CONC. BD W/LED ML STA. 114+90;25.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

26' CONC. W/HPS COBRA REMOVED BY CITY

#3109 31' CONC. BD W/LED ML STA. 115+63;25.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

SCALE, FEET 0 30

SHEET 3 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 163	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) CONNECT TO RED CONDUCTOR
- (B) CONNECT TO BLACK CONDUCTOR

N

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

#3042 31' CONC. BDW/LED ML STA. 116+42;58.0 LT

112 | 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 107+60;56.0 LT

HOUSE #3046

HOUSE #3034

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX STA. 116+90; 56.0 LT

139 | 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 117+56;56.0 LT

#3022 31' CONC. W/LED ML STA. 117+60;58.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

LUTHERAN CHURCH #3022

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

DET. B 100 3" PVC

26' CONC. W/HPS COBRA REMOVED BY CITY

#3010 31' CONC. BD W/LED ML STA. 118+57;58.0 LT

112 | 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 118+60;56.0 LT

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

#3004 31' CONC. BD W/ 2-LED ML STA. 119+37;17.0 LT

TRIPOLI SHRINE #3000

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

#2932 31' CONC. BD W/LED ML STA. 120+32;58.0 LT

3#4/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

DET. B 100 3" PVC

DET. B 100 3" PVC

EXIST. 26' RED CONC. PD LIGHT POLE REMOVED BY CITY

139 | 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 116+90;22.0 LT

102 3" SCH. 80

DET. B 100 3" PVC

DET. B 100 3" PVC

DET. B 100 3" PVC

DET. C 100 3" PVC

3#8/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 118+19;22.0 LT

#3014 26' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 118+20;17.0 LT

139 | 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 119+31;13.0 LT

DET. B 100 3" PVC

EXIST. 26' RED CONC. PD LIGHT POLE REMOVED BY CITY

139 | 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 120+29;56.0 LT

EXIST. 26' RED CONC. PD LIGHT POLE REMOVED BY CITY

W. WISCONSIN AVE.

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 116+20;23.0 RT

102 3" SCH. 80

#3034 31' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 117+3;17.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

26' CONC. W/HPS COBRA REMOVED BY CITY

102 3" SCH. 80

112 13"x24"x24" PULL BOX STA. 119+38;23.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 | 123 13"x24"x24" PULL BOX STA. 120+19;23.0 RT

DET. B 100 3" PVC

101 3" PVC

101 3" PVC

101 3" PVC

101 3" PVC

101 3" PVC

102 3" SCH. 80

#3035 APTS.

#3001 VILLAGE INN HOTEL

#639 26' CONC. BD W/LED COBRA STA. 119+65;39.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX STA. 116+90;23.0 RT

112 13"x24"x24" PULL BOX STA. 116+72;45.0 RT

112 | 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 116+38;45.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 | 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 117+92;23.0 RT

#3017 31' CONC. BDW/LED ML STA. 117+90;25.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

139 | 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 118+89;23.0 RT

139 | 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 119+69;43.0 RT

#3013 31' CONC. BDW/LED ML STA. 118+86;25.0 RT

26' CONC. W/ COBRA REMOVED BY CITY

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#3933 15' PED. UNIT W/20A OUTLET LED HARP STA. 120+22;24.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX STA. 120+2;43.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

#639 26' CONC. BD W/LED COBRA STA. 116+40;40.0 RT

N. 31ST ST.

N. 30TH ST.

SCALE, FEET 0 30

SHEET 4 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 164	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

N

W. WISCONSIN AVE.

N. 28TH PL.

N. 29TH ST.

#2908 31' CONC. BDW/LED ML STA. 121+8;58.0 LT

31' CONC. W/HPS COBRA REMOVED BY CITY

26' CONC. W/HPS COBRA REMOVED BY CITY

#2902 31' CONC. BDW/LED ML STA. 121+62;58.0 LT

GRAND ANN APTS. #2904

DET. B 100 3" PVC

112 13"x24"x24" PULL BOX STA. 121+82;80.0 LT

102 3" SCH. 80

101 3" PVC

FULL CW

EXIST. HYD.

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 121+12;56.0 LT

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 121+61;56.0 LT

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

3#8/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 122+16; 80.0 LT

#702 26' CONC. BD W/LED COBRA 6' UPSWEEP ARM STA. 122+13;83.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

APTS. #2848

BUS SHELTER

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 122+34;56.0 LT

#2846 31' CONC. BDW/LED ML TYPE 2 BASE STA. 121+62;58.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

#2852 31' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 122+35;17.0 LT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 122+73;56.0 LT

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

HOUSE #2838-2840

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

HOUSE #2830-2836

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 123+68;56.0 LT

#2836 31' CONC. BD W/LED ML TYPE 2 BASE STA. 123+72;58.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX STA. 124+13;72.0 LT

#2828 15' PED. UNIT W/20A OUTLET LED HARP STA. 124+54;56.0 LT

#702 26' CONC. BD W/LED COBRA 6' UPSWEEP ARM; TYPE 2 BASE STA. 124+40;74.0 LT

26' CONC. W/HPS COBRA REMOVED BY CITY

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 124+40; 72.0 LT

112 13"x24"x24" PULL BOX STA. 124+13;56.0 LT

112 13"x24"x24" PULL BOX STA. 125+36;57.0 LT

#2812 15' PED. UNIT W/20A OUTLET LED HARP STA. 124+28;23.0 LT

ST. PAUL'S CHURCH #2812-2820

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

102 3" SCH. 80

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 124+68;21.0 LT

3" PVC INSTALLED 2' BEHIND CURB

#2822 31' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 122+35;17.0 LT

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

3#2/1#8LTP CABLE CIR.WF-A INSTALLED IN CONDUIT

#2919 31' CONC. W/LED ML INSTALLED BY CITY STA. 120+88;25.0 RT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 122+10;23.0 RT

112 13"x24"x24" PULL BOX STA. 122+10;12.0 LT

102 3" SCH. 80

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 123 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 123+23;23.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 123+96;23.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

EXIST. 26' RED CONC. PD LIGHT POLE REMOVED BY CITY

112 123 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 124+75;23.0 RT

#2913 15' PED. UNIT W/20A OUTLET LED HARP STA. 121+45;23.0 RT

112 139 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 120+91;23.0 RT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#4/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

112 123 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 121+50;23.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

#2905 31' CONC. BD W/LED ML STA. 122+16;25.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

#659 26' CONC. BD W/LED COBRA 6' UPSWEEP ARM STA. 122+16;25.0 RT

139 112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 122+75;50.0 RT

102 3" SCH. 80

112 13"x24"x24" PULL BOX 3" PVC TO BASE STA. 123+8;50.0 RT

3#2/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#2843 31' CONC. BD W/LED ML STA. 123+26;25.0 RT

EXIST. HYD.

3#2/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

EXIST. 26' RED CONC. PD LIGHT POLE REMOVED BY CITY

#2833 31' CONC. BDW/LED ML STA. 124+0;58.0 RT

OFFICE BLDG.

CLOSE DRIVEWAY

3#2/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#8/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

3#2/1#8LTP CABLE CIR.WF-B INSTALLED IN CONDUIT

#2823 15' PED. UNIT W/20A OUTLET LED HARP STA. 124+77;24.0 RT

CLOSE DRIVEWA

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- CONNECT TO RED CONDUCTOR
- CONNECT TO BLACK CONDUCTOR

SCALE, FEET 0 30

SHEET 5 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 165	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

#3004
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 126+13;57.0 LT

3#2/1#8LTP CABLE
CIR.WF-A
INSTALLED IN CONDUIT

EXIST. 26' RED CONC.
PD LIGHT POLE
REMOVED BY CITY

#3010
26' CONC. W/LED LANTERN
INSTALLED BY CITY

112 | 123
13"x24"x24" PULL BOX
STA. 125+88;56.0 LT

CAP ENDS
PAV. LIMIT

DET. B
100
3" PVC

112
13"x24"x24"
PULL BOX
STA. 126+40;82.0 LT

40'-3#2/1#8LTP CABLE
CIR.WF-A
COILED IN PULL BOX

2-3"PVC

101
3" PVC

102
3" SCH. 80

3#8/1#8LTP CABLE
CIR.WF-A
INSTALLED IN CONDUIT

#2808
31' CONC. BD W/ 2-LED ML
2-2#12UF RISERS
STA. 125+85;17.0 LT

3#2/1#8LTP CABLE
CIR.WF-A

3#8/1#8LTP CABLE
CIR.WF-A

3" PVC INSTALLED
2' BEHIND CURB

EXIST. 26' RED CONC.
PD LIGHT POLE
REMOVED BY CITY

112 | 139
13"x24"x24" PULL BOX
3" PVC TO BASE
STA. 125+90;22.0 LT

#3224
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 125+52;24.0 RT

3#2/1#8LTP CABLE
CIR.WF-B
INSTALLED IN CONDUIT

112 | 123
13"x24"x24" PULL BOX
STA. 126+50;23.0 RT

26' CONC. W/HPS COBRA
REMOVED BY CITY

112 | 123
13"x24"x24" PULL BOX
STA. 125+54;23.0 RT

112 | 139
13"x24"x24" PULL BOX
3" PVC TO BASE
STA. 125+43;50.0 RT

112
13"x24"x24" PULL BOX
3" PVC TO BASE
STA. 126+23;50.0 RT

#2733
TRAVIS ACADEMY

#2808
31' CONC. BD W/ 2-LED ML
TYPE 2 BASE
2-2#12UF RISERS
STA. 127+10;15.0 LT

#2739
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 126+52;24.0 RT

#635
26' CONC. BD W/LED COBRA
6' UPSWEEP ARM; TYPE 2 BASE
STA. 125+79;43.0 RT

40'-3#2/1#8LTP CABLE
CIR.WF-B
COILED IN PULL BOX

3#8/1#8LTP CABLE
CIR.WF-F
INSTALLED IN CONDUIT

END CONSTRUCTION

CAP ENDS
PAV. LIMIT

DET. B
100
3" PVC

112 | 139
13"x24"x24"
PULL BOX
STA. 126+77;82.0 LT

3#2/1#8LTP CABLE
CIR.WF-D
INSTALLED IN CONDUIT

#702
31' CONC. BD W/LED COBRA
6' UPSWEEP ARM
STA. 126+79;74.0 LT

26' CONC. W/HPS COBRA
REMOVED BY CITY

3#2/1#8LTP CABLE
CIR.WF-D
INSTALLED IN CONDUIT

CONC. PAVEMENT
"2013"

139 | 112
13"x24"x24" PULL BOX
3" PVC TO BASE
STA. 127+23;20.0 LT

EXIST. 26' RED CONC.
PD LIGHT POLE
REMOVED BY CITY

EXIST. 15' PED. UNIT
W/HPS HARP
REMOVED BY CITY

3#2/1#8LTP CABLE
CIR.WF-D
INSTALLED IN CONDUIT

CONC. PAVEMENT
"2013"

3#8/1#8LTP CABLE
CIR.WF-F
INSTALLED IN CONDUIT

#2729-2731

#2727-2725
BAR

#2719
BILLIARDS

20'-3#2/1#8LTP CABLE
CIR.WF-D
INSTALLED IN CONDUIT

#2731
15' CONC. PED W/HPS ML
STA. 120+90;23.0 RT

3#8/1#8LTP CABLE
CIR.WF-F
INSTALLED IN CONDUIT

END CONSTRUCTION

BRICK PILLARS & IRON FENCE

WISC. AVE. SCHOOL

BRICK PILLARS & IRON FENCE

BUS STOP

BUS STOP

TRAP DOOR
HOLLOW CW

FULL CW

LAWN

CONC

1/4 SEC LINE

MON.

N. 28TH ST.

N. 27TH ST.

W. WISCONSIN AVE.

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- CONNECT TO RED CONDUCTOR
- CONNECT TO BLACK CONDUCTOR

SCALE, FEET 0 30

SHEET 6 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 166	E

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP
  2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS
  3#10UF INTERNAL RISER-OUTLET
  (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN
  2#12UF INTERNAL RISER
  TYPE 2 MODIFIED BASE
  (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS
  2-2#12UF INTERNAL RISER
  TYPE 2 MODIFIED BASE
  (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA
  2#12UF INTERNAL RISER
  TYPE 2 MODIFIED BASE
  (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE
  (LTP = LOW THERMAL PLASTIC INSULATION)
  CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE
  (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

N

2

CITY OF MILWAUKEE
#2630

BUS SHELTER

APTS.
#2620-2622

APTS.
#2616

RED CROSS
#2602

#2600
TYPE 10 SPECIAL BASE
TYPE 13 POLE
LED LANTERN ML1153KAS4BG
2#12 UF W/GND INTERNAL RISERS

139 | 112
13"x24"x24"
PULL BOX
STA. 133+98;101.0 LT

26' CONC. W/HPS COBRA
REMOVED BY CITY

3#4/1#8LTP
CIR.WF-G
INSTALL IN CONDUIT

EXIST. VAULT
TO REMAIN IN SERVICE

26' CONC. LIGHT W/
MAST ARM
REMOVED BY CITY

#702
26' CONC. BD W/LED COBRA
6' UPSWEEP ARM
STA. 133+98;105.0 LT

30'-3#8/1#8LTP
CIR.WF-G
TO EXIST. COBRA UNIT

#2538
TYPE 10 BASE
TYPE 9 POLE

3" PVC (SPECIAL)

17"x30"x24"
PULL BOX

3#8/1#8LTP
CIR.WF-G
INSTALL IN CONDUIT

3#4/1#8LTP
CIR.WF-G
INSTALL IN CONDUIT

112 | 139
17"x30"x24"
PULL BOX

#2522
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 134+80;58.0 LT

DET. B
100
3" PVC

3#8/1#8LTP
CIR.WF-G
INSTALL IN CONDUIT

DET. PED. POLE
REMOVED BY CITY

26' CONC. W/HPS COBRA
REMOVED BY CITY
#2538
31' CONC. BD W/LED ML
STA. 134+18;59.0 LT

112 | 123
13"x24"x24"
PULL BOX

13"x24"x24" PULL BOX
STA. 134+47;23.0 RT

BEGIN CONSTRUCTION

CONC. PAVEMENT
"2013"

PROTECT & ADJUST
EXISTING PULL BOX & CONDUIT

#2601
26' CONC. W/ LANTERN
LED LANTERN ML1153KAS4BG
LED UPGRADE BY CONTRACTOR

TYPE 10 BASE
TYPE 9 POLE

EXIST. POLE W/
MAST TO BE REMOVED

17"x30"x24"
PULL BOX

3#4/1#8LTP
CIR.WF-F
IN CONDUIT

#637
26' CONC. BD W/LED COBRA
6' UPSWEEP ARM
STA. 133+53;63.0 RT

#2537
TYPE 10 SPECIAL BASE
TYPE 13 POLE
LED LANTERN ML1153KAS4BG
2#12 UF INTERNAL RISERS

EXIST. 31' CONC.
TO BE REMOVED
BY CITY

3#8/1#8LTP
CIR.WF-F
IN CONDUIT

15' PED. UNIT
W/HPS HARP
REMOVED BY CITY

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT
CIR.TE-ES-55

#2522
15' PED. UNIT
W/20A OUTLET
LED HARP
STA. 134+50;24.0 LT

3#4/1#8LTP
CIR.WF-F
IN CONDUIT

W. WISCONSIN AVE

+50 | 131 | 1/4 SEC LINE | +50 | 132 | +50 | 133 | +50 | 134 | +50

ABANDONED

BUS SHELTER

FULL CW

LAWN

CONC

CMB 24"

2-3" SCH. 80

2-3" PVC

40' ARM

20' ARM

6' UPSWEEP ARM

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

SCALE, FEET 0 30

SHEET 7 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 167	E

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

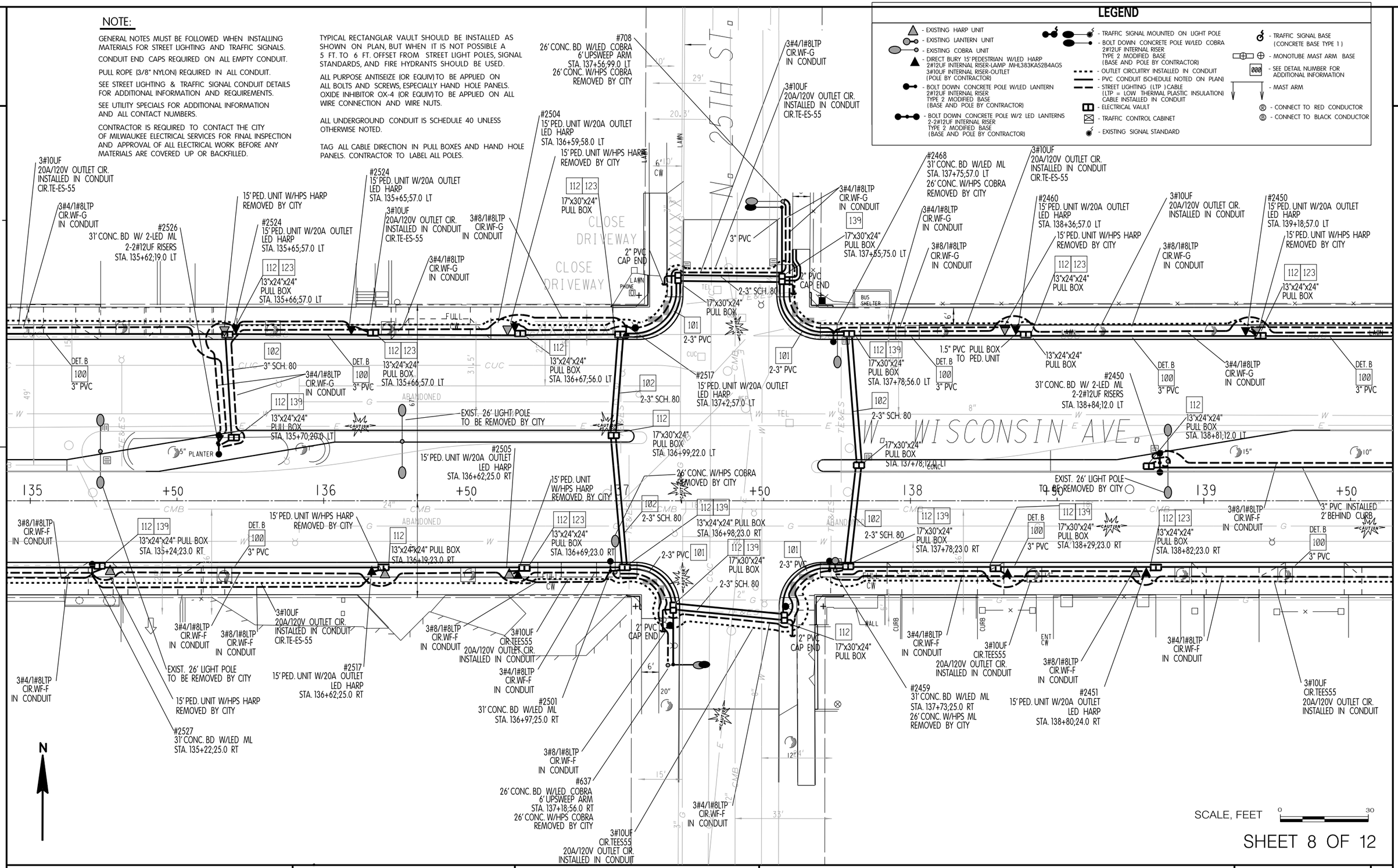
ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP /MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR



SHEET 8 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 168	E

FILE NAME : W:\bes\pavings\2018work\wWisconsin Ave – 35th to 20th (2190–00–70)\100% setup.dgn PLOT DATE : 28–SEP–2017 08:51 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) - CONNECT TO RED CONDUCTOR
- (B) - CONNECT TO BLACK CONDUCTOR

N

2

W. WISCONSIN AVE.

15' PED. UNIT W/HPS HARP REMOVED BY CITY

#2438 31' CONC. BD W/LED ML STA. 139+68;58.0 LT 26' CONC. W/HPS ML REMOVED BY CITY

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

3#4/1#8LTP CIR.WF-G IN CONDUIT

3#8/1#8LTP CIR.WF-G IN CONDUIT

GRAND AVENUE SCHOOL

#2428 15' PED. UNIT W/20A OUTLET LED HARP STA. 140+43;57.0 LT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

3#8/1#8LTP CIR.WF-G IN CONDUIT

3#4/1#8LTP CIR.WF-G IN CONDUIT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

#2420 15' PED. UNIT W/20A OUTLET, LED HARP STA. 141+19;57.0 LT

3#4/1#8LTP CIR.WF-G IN CONDUIT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

#2459 31' CONC. BD W/LED ML STA. 141+61;58.0 LT 26' CONC. W/HPS ML REMOVED BY CITY

#2408 15' PED. UNIT W/20A OUTLET LED HARP STA. 142+4;57.0 LT 15' PED. UNIT W/HPS HARP REMOVED BY CITY

20'-3#8/1#8LTP COILED IN PULL BOX

3#4/1#8LTP CIR.WF-G IN CONDUIT

EXIST. LIGHT POLE (REMOVED BY CITY FORCES) PERIPHERAL DEVICE TRANSFERED BY CITY

#702 TYPE 10 BASE TYPE 10 POLE ML1153KAS4BG 2#12 UF INTERNAL RISERS

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

20'-3#8/1#8LTP COILED IN PULL BOX

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#2336 31' CONC. BD W/LED ML STA. 143+23;58.0 LT 26' CONC. W/HPS ML REMOVED BY CITY

3#4/1#8LTP CIR.WF-G IN CONDUIT

#2324 31' CONC. BD W/LED ML STA. 144+19;58.0 LT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

#2328 15' PED. UNIT W/20A OUTLET LED HARP STA. 142+4;57.0 LT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

112 139 13"x24"x24" PULL BOX STA. 139+70;57.0 LT

13"x24"x24" PULL BOX

DET. B 100 3" PVC

112 123 13"x24"x24" PULL BOX STA. 140+45;56.0 LT

DET. B 100 3" PVC

112 123 13"x24"x24" PULL BOX

DET. B 100 3" PVC

139 13"x24"x24" PULL BOX

1.5" PVC PULL BOX TO PED. UNIT

112 123 13"x24"x24" PULL BOX

17"x30"x24" PULL BOX

139 17"x30"x24" PULL BOX 2"

DET. B 100 3" PVC

112 123 13"x24"x24" PULL BOX

DET. B 100 3" PVC

139 112 123 13"x24"x24" PULL BOX

EXIST. 26' LIGHT POLE TO BE REMOVED BY CITY

112 13"x24"x24" PULL BOX STA. 140+68;11.0 LT

#2426 31' CONC. BD W/2-LED ML 2-2#12UF RISERS STA. 140+70;17.0 LT

#2402 TYPE 10 BASE TYPE 10 POLE W/LED LANTERN ML1153KAS4BG 2#12UF INTERNAL RISERS

#2405 31' CONC. BD W/LED ML TYPE 2 BASE STA. 141+63;25.0 LT

#2343 TYPE 10 BASE TYPE 13 POLE W/LED LANTERN ML1153KAS4BG 2#12UF INTERNAL RISERS

3" SCH. 80

3" PVC INSTALLED 2' BEHIND CURB

3#8/1#8LTP CIR.WF-F IN CONDUIT

139 112 13"x24"x24" PULL BOX STA. 139+83;23.0 RT

DET. B 100 3" PVC

3#8/1#8LTP CIR.WF-F IN CONDUIT

112 123 13"x24"x24" PULL BOX STA. 140+79;23.0 RT

DET. B 100 3" PVC

26' CONC. W/HPS ML REMOVED BY CITY

1.5" PVC PULL BOX TO PED. UNIT

112 123 13"x24"x24" PULL BOX STA. 141+95;23.0 RT

DET. B 100 3" PVC

139 17"x30"x24" PULL BOX

#2401 31' CONC. BD W/LED ML STA. 142+55;25.0 LT 26' CONC. W/HPS ML REMOVED BY CITY

26' CONC. TO BE REMOVED BY CITY

139 13"x24"x24" PULL BOX STA. 143+87;23.0 RT

DET. B 100 3" PVC

3#4/1#8LTP CIR.WF-F IN CONDUIT

3#4/1#8LTP CIR.WF-F IN CONDUIT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

SHERION APTS.

#2438 31' CONC. BD W/LED ML STA. 139+78;25.0 RT

3#10UF CIR.TE-ES-55 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

26' CONC. W/HPS ML TO BE REMOVED BY CITY

#2425 15' PED. UNIT W/20A OUTLET LED HARP STA. 140+85;24.0 RT 15' PED. UNIT W/HPS HARP REMOVED BY CITY

15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#4/1#8LTP CIR.WF-F IN CONDUIT

112 139 13"x24"x24" PULL BOX STA. 141+55;23.0 RT

3#8/1#8LTP CIR.WF-F IN CONDUIT

#2403 15' PED. UNIT W/20A OUTLET LED HARP STA. 140+85;24.0 RT 15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

3#4/1#8LTP CIR.WF-F IN CONDUIT

2-3" PVC PULL BOX TO MONOTUBE

#639 TYPE 10 BASE TYPE 10 POLE

CONTROL CABINET INSTALLED BY OTHERS

2-3" PVC PULL BOX TO NEW SIG. CONTROL CABINET

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

3#4/1#8LTP CIR.WF-F IN CONDUIT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

30'-3#8/1#8LTP COILED IN PULL BOX

3#4/1#8LTP CIR.WF-F IN CONDUIT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#2333 31' CONC. BD W/LED ML STA. 143+89;25.0 LT 26' CONC. W/HPS COBRA REMOVED BY CITY

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

SCALE, FEET 0 30

SHEET 9 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 169	E

FILE NAME : W:\bes\pavings\2018work\wWisconsin Ave – 35th to 20th (2190–00–70)\100% setup.dgn PLOT DATE : 29–SEP–2017 07:21 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

2

N. 23TH ST.

W. WISCONSIN AVE.

AMBASSADOR HOTEL

AVENUE MANOR APTS.

MICHAELS RESTAURANT

TACO BELL

PLANNED PARENTHOOD

#2314
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 145+20;57.0 LT

EXIST. 26' LIGHT POLE
TO BE REMOVED BY CITY

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT
CIR.TE-ES-55

15' PED. UNIT W/HPS HARP
REMOVED BY CITY

#2300
31' CONC. BD W/LED ML
STA. 146+2;57.0 LT

3#10 W/GND.
CIR.TE-ES-55
INSTALL IN CONDUIT
TO METER #V0675891

3#4/1#8LTP
CIR.WF-G
IN CONDUIT

13"x24"x24"
PULL BOX

3" SCH. 80

#704
REMAIN IN SERVICE
100A/120V SWAG CIRCUIT
METER #V0675891
LED UPGRADE BY CITY

3#10 W/GND.
CIR.TE-ES-55
INSTALL IN CONDUIT
TO METER #V0675891

3#4/1#8LTP
CIR.WF-G
IN CONDUIT

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT
CIR.TE-ES-55

#2224
31' CONC. BD W/LED ML
STA. 146+75;57.0 LT
26' CONC. W/HPS COBRA
REMOVED BY CITY

3#4/1#8LTP
CIR.WF-6
INSTALL IN CONDUIT

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT
CIR.TE-ES-55

#2222
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 147+51;57.0 LT

15' PED. UNIT W/HPS HARP
REMOVED BY CITY

3#4/1#8LTP
CIR.WF-6
INSTALL IN CONDUIT

#2200
31' CONC. BD W/LED ML
STA. 148+93;57.0 LT

30'-3#8/1#8LTP
CIR.WF-F
COILED IN PULL BOX

#2210
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 145+17;24.0 RT

SIGN
BASE

3#10UF
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT
CIR.TE-ES-55

3#8/1#8LTP
CIR.WF-6
INSTALL IN CONDUIT

3#8/1#8LTP
CIR.WF-F
INSTALL IN CONDUIT

3#4/1#8LTP
CIR.WF-F
IN CONDUIT

3#8/1#8LTP
CIR.WF-F
IN CONDUIT

3#10UF
CIR.TEES55
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT

#2313
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 145+17;24.0 RT
15' PED. UNIT W/HPS HARP
REMOVED BY CITY

#2312
31' CONC. BD W/ 2-LED ML
2-2#12UF RISERS
STA. 145+10;17.0 LT

#2301
31' CONC. BD W/LED ML
STA. 145+96;25.0 LT
26' CONC. W/HPS ML
REMOVED BY CITY

#2223
31' CONC. BD W/LED ML
TYPE 2 BASE
STA. 146+73;25.0 RT
26' CONC. W/HPS ML
REMOVED BY CITY

#2220
31' CONC. BD W/ 2-LED ML
2-2#12UF RISERS
STA. 147+78;17.0 LT

#2221
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 147+50;24.0 RT

15' PED. UNIT W/HPS HARP
REMOVED BY CITY

#2211
15' PED. UNIT W/20A OUTLET
LED HARP
STA. 145+17;24.0 RT

#2201
31' CONC. BD W/LED ML
STA. 137+73;25.0 RT
26' CONC. W/HPS ML
REMOVED BY CITY

3#8/1#8LTP
CIR.WF-F
IN CONDUIT

3#4/1#8LTP
CIR.WF-F
INSTALL IN CONDUIT

26' CONC. W/HPS COBRA
REMOVED BY CITY

26' CONC. W/HPS ML
REMOVED BY CITY

3#10UF
CIR.TEES55
20A/120V OUTLET CIR.
INSTALLED IN CONDUIT

EXIST. 26' LIGHT POLE
TO BE REMOVED BY CITY

13"x24"x24"
PULL BOX
STA. 145+6;16.0 LT

13"x24"x24"
PULL BOX
STA. 145+7;23.0 RT

13"x24"x24"
PULL BOX
STA. 145+93;23.0 RT

13"x24"x24"
PULL BOX
STA. 146+18;40.0 RT

13"x24"x24"
PULL BOX
STA. 146+58;40.0 RT

13"x24"x24"
PULL BOX
STA. 147+44;23.0 RT

13"x24"x24"
PULL BOX
STA. 147+45;16.0 LT

13"x24"x24"
PULL BOX
STA. 148+41;57.0 LT

13"x24"x24"
PULL BOX
STA. 148+38;23.0 RT

13"x24"x24"
PULL BOX
STA. 148+85;23.0 RT

13"x24"x24"
PULL BOX
STA. 149+96
57.0 LT

3" PVC

3" SCH. 80

2-3" PVC

DET. B
100

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- CONNECT TO RED CONDUCTOR
- CONNECT TO BLACK CONDUCTOR

N

SCALE, FEET 0 30

SHEET 10 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 170	E

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS284AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- 000 - SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- Ⓡ - CONNECT TO RED CONDUCTOR
- Ⓑ - CONNECT TO BLACK CONDUCTOR

N

2

2

22ND ST.

N. 21ST ST.

W. WISCONSIN AVE.

30'-3#8/1#8LTP COILED IN PULL BOX

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#700 26' CONC. BD W/LED COBRA 6' UPSWEEP ARM STA. 149+45;78.0 LT

3#6/1#8LTP CIR.WF-G IN CONDUIT

102 13"x24"x24" PULL BOX

15' PED. UNIT W/HPS HARP REMOVED BY CITY

BMO BANK

#2134 15' PED. UNIT W/20A OUTLET LED HARP STA. 149+65;58.0 LT

102 3" SCH. 80

26' CONC. W/HPS COBRA REMOVED BY CITY

101 3" PVC

BUS SHELTER

#2126 15' PED. UNIT W/20A OUTLET LED HARP STA. 150+38;57.0 LT

112 123 13"x24"x24" PULL BOX STA. 150+41;57.0 LT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#2110 15' PED. UNIT W/20A OUTLET LED HARP STA. 151+29;58.0 LT

#2102 31' CONC. BD W/LED ML STA. 151+90;59.0 LT

112 123 13"x24"x24" PULL BOX STA. 151+29;57.0 LT

20-3#8/1#8LTP SPLICE (TO UNIT #725) BY CITY FORCES

26' CONC. W/HPS ML REMOVED BY CITY

112 13"x24"x24" PULL BOX

3#8/1#8LTP CIR.WF-G IN CONDUIT

3#6/1#8LTP CIR.WF-G IN CONDUIT

139 13"x24"x24" PULL BOX

3#10UF CIR.TEES55 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

112 123 13"x24"x24" PULL BOX STA. 152+72;57.0 LT

#704 26' CONC. BD W/LED COBRA 6' UPSWEEP ARM STA. 152+49;86.0 LT 26' CONC. W/HPS COBRA REMOVED BY CITY

EXIST. BLDG. FIRE TEST PUMP HEADER EXTERIOR WALL

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

26' CONC. W/HPS COBRA REMOVED BY CITY

#2048 15' PED. UNIT W/20A OUTLET LED HARP STA. 152+68;58.0 RT

#2040 15' PED. UNIT W/20A OUTLET LED HARP STA. 153+35;58.0 LT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

#2032 31' CONC. BD W/LED ML STA. 153+75;59.0 LT

BLDG. 2040

15' PED. UNIT W/HPS HARP REMOVED BY CITY

102 3" SCH. 80

2-3#6/1#8LTP CIR.WF-F IN CONDUIT

139 112 13"x24"x24" PULL BOX STA. 154+74;57.0 LT

#2039 15' PED. UNIT W/20A OUTLET LED HARP STA. 152+99;24.0 RT

112 123 13"x24"x24" PULL BOX STA. 153+30;57.0 LT

3#8/1#8LTP CIR.WF-G IN CONDUIT

26' CONC. W/HPS COBRA REMOVED BY CITY

3#8/1#8LTP CIR.WF-G IN CONDUIT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

#2029 31' CONC. W/LED ML INSTALLED BY CITY STA. 153+77;27.0 RT

DET. B 100 3" PVC

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

26' CONC. TO BE REMOVED BY CITY FORCES

139 112 13"x24"x24" PULL BOX STA. 153+75;25.0 RT

112 123 13"x24"x24" PULL BOX STA. 152+76;25.0 RT

3#6/1#8LTP CIR.WF-F IN CONDUIT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#2101 31' CONC. BD W/LED ML STA. 151+93;27.0 RT

3#6/1#8LTP CIR.WF-F IN CONDUIT

3#10UF CIR.TEES55 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

3#8/1#8LTP CIR.WF-F IN CONDUIT

#2119 15' PED. UNIT W/20A OUTLET LED HARP STA. 151+6;26.0 RT

APTS.

3#6/1#8LTP CIR.WF-F IN CONDUIT

#2120 31' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 150+72;17.0 RT

#2132 31' CONC. BD W/ 2-LED ML 2-2#12UF RISERS STA. 149+72;17.0 RT

3#8/1#8LTP CIR.WF-G IN CONDUIT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

VICTORY CHRISTIAN ACADEMY

26' CONC. TO BE REMOVED BY CITY

3#6/1#8LTP CIR.WF-F IN CONDUIT

15' PED. UNIT REMOVED BY CITY

CHURCH

#2133 15' PED. UNIT W/20A OUTLET LED HARP STA. 149+43;24.0 RT

3#8/1#8LTP CIR.WF-G IN CONDUIT

3#6/1#8LTP CIR.WF-F IN CONDUIT

112 123 13"x24"x24" PULL BOX STA. 139+83;23.0 RT

3" PVC

#2125 15' PED. UNIT W/20A OUTLET LED HARP STA. 150+24;24.0 RT

112 123 13"x24"x24" PULL BOX STA. 150+28;24.0 RT

DET. B 100 3" PVC

15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#6/1#8LTP CIR.WF-F IN CONDUIT

3#8/1#8LTP CIR.WF-F IN CONDUIT

139 112 13"x24"x24" PULL BOX STA. 149+71;22.0 LT

112 123 13"x24"x24" PULL BOX STA. 149+71;57.0 LT

3" PVC INSTALLED 2' BEHIND CURB

26' CONC. TO BE REMOVED BY CITY

112 13"x24"x24" PULL BOX STA. 150+72;22.0 LT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

3#10UF CIR.TEES55 20A/120V OUTLET CIR. INSTALLED IN CONDUIT

112 13"x24"x24" PULL BOX STA. 151+90;22.0 LT

13"x24"x24" PULL BOX STA. 151+14;25.0 RT 112 123

DET. B 100 3" PVC

15' PED. UNIT W/HPS HARP REMOVED BY CITY

13"x24"x24" PULL BOX STA. 151+87;25.0 RT 139 112

102 3" SCH. 80

26' CONC. W/HPS ML REMOVED BY CITY

DET. B 100 3" PVC

102 3" SCH. 80

1/4 SEC LINE

+50

150

151

152

153

CMB

FULL CW

CUC

TEL

WEP

CAUTION

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

SCALE, FEET 0 30

SHEET 11 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 171 E

2

2

N

NOTE:

GENERAL NOTES MUST BE FOLLOWED WHEN INSTALLING MATERIALS FOR STREET LIGHTING AND TRAFFIC SIGNALS.

CONDUIT END CAPS REQUIRED ON ALL EMPTY CONDUIT.

PULL ROPE (3/8" NYLON) REQUIRED IN ALL CONDUIT.

SEE STREET LIGHTING & TRAFFIC SIGNAL CONDUIT DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SEE UTILITY SPECIALS FOR ADDITIONAL INFORMATION AND ALL CONTACT NUMBERS.

CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SERVICES FOR FINAL INSPECTION AND APPROVAL OF ALL ELECTRICAL WORK BEFORE ANY MATERIALS ARE COVERED UP OR BACKFILLED.

TYPICAL RECTANGLAR VAULT SHOULD BE INSTALLED AS SHOWN ON PLAN, BUT WHEN IT IS NOT POSSIBLE A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS, AND FIRE HYDRANTS SHOULD BE USED.

ALL PURPOSE ANTISEIZE (OR EQUIV) TO BE APPLIED ON ALL BOLTS AND SCREWS, ESPECIALLY HAND HOLE PANELS. OXIDE INHIBITOR OX-4 (OR EQUIV) TO BE APPLIED ON ALL WIRE CONNECTION AND WIRE NUTS.

ALL UNDERGROUND CONDUIT IS SCHEDULE 40 UNLESS OTHERWISE NOTED.

TAG ALL CABLE DIRECTION IN PULL BOXES AND HAND HOLE PANELS. CONTRACTOR TO LABEL ALL POLES.

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

3#8/1#8LTP CIR.WF-G INSTALL IN CONDUIT

3#8/1#8LTP CIR.WF-G INSTALL IN CONDUIT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#2026 15' PED. UNIT W/20A OUTLET LED HARP STA. 154+41;58.0 RT

3#8/1#8LTP CIR.WF-G INSTALL IN CONDUIT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

#2020 31' CONC. BD W/LED ML TYPE 2 MOD BASE STA. 154+84;59.0 LT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

3#8/1#8LTP CIR.WF-G INSTALL IN CONDUIT

PABST MANSION

#2004 15' PED. UNIT W/20A OUTLET LED HARP STA. 155+68;58.0 LT

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

#2002 31' CONC. BD W/ 2-LED ML TYPE 2 MOD BASE 2-2#12UF RISERS STA. 155+77;16.0 RT

#2000 15' PED. UNIT REMOVED BY CITY FORCES

26' CONC. TO BE REMOVED BY CITY

#1948 15' PED. UNIT W/20A OUTLET LED HARP STA. 156+19;58.0 LT

3#8/1#8LTP CIR.T18C INSTALL IN CONDUIT

102 | 139 13"x24"x24" PULL BOX

#1940 31' CONC. BD W/LED ML TYPE 2 MODBASE STA. 156+72;59.0 RT

END PROJECT

EXIST. 26' LIGHT POLE TO BE REMOVED BY CITY

102 3" SCH. 80

END CONSTRUCTION

DET. B 100 3" PVC

112 | 123 13"x24"x24" PULL BOX STA. 154+36;57.0 LT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

139 | 112 13"x24"x24" PULL BOX STA. 154+88;57.0 LT

26' CONC. W/HPS ML REMOVED BY CITY

DET. B 100 3" PVC

112 | 123 13"x24"x24" PULL BOX STA. 155+74;57.0 LT

102 3" SCH. 80

3#10 W/GND. CIR.TE-ES-55 INSTALL IN CONDUIT

112 | 123 13"x24"x24" PULL BOX STA. 156+23;57.0 LT

DET. B 100 3" PVC

102 3" SCH. 80

END CONSTRUCTION

W. WISCONSIN AVE.

139 | 102 13"x24"x24" PULL BOX STA. 155+74;17.0 LT

3#8/1#8LTP CIR.T18C INSTALL IN CONDUIT

102 13"x24"x24" PULL BOX STA. 156+674;11.0 RT

END CONSTRUCTION

#2046 31' CONC. BD W/ 2-LED ML TYPE 2 BASE 2-2#12UF RISERS STA. 152+77;19.0 RT

112 13"x24"x24" PULL BOX STA. 154+22;22.0 LT

154 +50 155 +50 156 +50 157

DET. B 100 3" PVC

112 | 123 13"x24"x24" PULL BOX STA. 154+38;25.0 RT

26' CONC. W/HPS COBRA REMOVED BY CITY

139 | 112 13"x24"x24" PULL BOX STA. 154+80;25.0 RT

DET. B 100 3" PVC

112 | 123 13"x24"x24" PULL BOX STA. 155+74;25.0 RT

102 3" SCH. 80

101 3" PVC

3#8/1#8LTP CIR.T18C INSTALL IN CONDUIT

101 3" PVC

102 3" SCH. 80

EXIST. 26' LIGHT POLE TO BE REMOVED BY CITY

END CONSTRUCTION

MON.

WOODRAMP

LAWN

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

3#8/1#8LTP CIR.WF-F INSTALL IN CONDUIT

112 13"x24"x24" PULL BOX

#2025 15' PED. UNIT W/20A OUTLET LED HARP STA. 154+43;26.0 RT

#2019 31' CONC. BD W/LED ML TYPE 2 MOD BASE STA. 154+83;25.0 RT

3#10UF 20A/120V OUTLET CIR. INSTALLED IN CONDUIT CIR.TE-ES-55

3#8/1#8LTP CIR.WF-F INSTALL IN CONDUIT

#2003 15' PED. UNIT W/20A OUTLET LED HARP STA. 155+78;24.0 RT

15' PED. UNIT W/HPS HARP REMOVED BY CITY

112 | 139 13"x24"x24" PULL BOX STA. 155+74;25.0 RT

#1937 31' CONC. BD W/LED ML TYPE 2 MOD BASE STA. 156+70;25.0 RT

139 | 112 13"x24"x24" PULL BOX STA. 156+8;56.0 RT

112 13"x24"x24" PULL BOX STA. 156+50;56.0 RT

#639 26' CONC. BD W/LED COBRA 6' UPSWEEP ARM; TYPE 2 BASE STA. 156+7;62.0 RT 26' CONC. W/HPS COBRA REMOVED BY CITY

N. 20TH ST.

N. 20TH ST.

LEGEND

- EXISTING HARP UNIT
- EXISTING LANTERN UNIT
- EXISTING COBRA UNIT
- DIRECT BURY 15' PEDESTRIAN W/LED HARP 2#12UF INTERNAL RISER-LAMP MHL383KAS2B4AGS 3#10UF INTERNAL RISER-OUTLET (POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/LED LANTERN 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- BOLT DOWN CONCRETE POLE W/2 LED LANTERNS 2-2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- TRAFFIC SIGNAL MOUNTED ON LIGHT POLE
- BOLT DOWN CONCRETE POLE W/LED COBRA 2#12UF INTERNAL RISER TYPE 2 MODIFIED BASE (BASE AND POLE BY CONTRACTOR)
- OUTLET CIRCUITRY INSTALLED IN CONDUIT
- PVC CONDUIT (SCHEDULE NOTED ON PLAN)
- STREET LIGHTING (LTP) CABLE (LTP = LOW THERMAL PLASTIC INSULATION) CABLE INSTALLED IN CONDUIT
- ELECTRICAL VAULT
- TRAFFIC CONTROL CABINET
- EXISTING SIGNAL STANDARD
- TRAFFIC SIGNAL BASE (CONCRETE BASE TYPE 1)
- MONOTUBE MAST ARM BASE
- SEE DETAIL NUMBER FOR ADDITIONAL INFORMATION
- MAST ARM
- (R) CONNECT TO RED CONDUCTOR
- (B) CONNECT TO BLACK CONDUCTOR

SCALE, FEET 0 30

SHEET 12 OF 12

PROJECT NO: 2190–00–70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	STREET LIGHTING PLAN	SHEET 172	E

FILE NAME : W:\bes\pavings\2018work\wWisconsin Ave – 35th to 20th (2190–00–70)\100% setup.dgn PLOT DATE : 28–SEP–2017 07:00 PLOT BY : lhickm PLOT NAME : PLOT SCALE : 30.000000:1.000000

WISDOT/CADDS SHEET 42

2

TRAFFIC SIGNAL GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

STREET LIGHTING & TRAFFIC SIGNALS SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING OR TRAFFIC SIGNAL FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING OR TRAFFIC SIGNAL DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2. LOCATIONS OF THE PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER. FIELD MARK EACH CONDUIT LOCATION BY STAMPING AND PAINTING WITH RED PAINT ON TOP AND BACKSIDE OF CURB.

3. TYPICAL CONDUIT INSTALLED UP TO DIRECT BURIED STREET LIGHT POLES IS AS FOLLOWS 3-INCH OR 2.5-INCH (AS NOTED) SCHEDULE 40 RIGID PVC TO STREET LIGHTING METAL HOUSING (PEDESTAL), THE 1.5-INCH SCHEDULE 40 RIGID PVC TO STREET LIGHT POLE CABLE SLOT, AND THE 2-INCH SCHEDULE 40 RIGID PVC TO SIGNAL STANDARD BASE AND RISER FOR TRAFFIC SIGNAL ON STREET LIGHT POLE.

4. DEPTH OF CONDUIT INSTALLED BELOW THE STREETS, HIGHWAYS, ROADS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)

5. CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT THE BASE OF THE BACKSIDE OF THE CURB/GUTTER SECTION.

6. WHEN THERE IS MORE THAN ONE CONDUIT TO BE LAID BEHIND THE CURB, PLACE ALL CONDUITS IN THE SAME TRENCH.

7. ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8. THE CONTRACTOR OR HIS SUBCONTRACTOR MUST MAKE SURE THE AREA BEHIND CURB AND/OR WITHIN TRENCH SHALL BE FREE OF DEBRIS AND OVERPOUR AND SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

9. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSON TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

10. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (SEE NEC 352.28 2008 CODE)

11. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

12. ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

13. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR BASE TO BASE, ETC.).

14. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUIT.

15. ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

16. WHEN ENDS OF CONDUIT DO NOT CONNECT TO A VAULT AND WILL END UP UNDER CONCRETE WALK, THE CONTRACTOR IS REQUIRED TO LEAVE A 24" X 24" BOX FORM CENTERED OVER THE END OF CONDUIT AND FILL THE BOXFORM WITH CRUSHED GRAVEL. (PER WISDOT SPEC 209.2.1(1) GRANULAR BACKFILL)

17. ALL PIPE CROSSINGS AND VAULTS SHALL BE AT LEAST SIX (6) FEET AWAY FROM FIRE HYDRANTS, UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

18. ALL POLES AND TRAFFIC STANDARDS IN CONCRETE ARE REQUIRED TO HAVE A 30"X30" BOX SHAPED JOINT PLACED AROUND THEM USING AN EXPANSION JOINT FILLER. UNLESS NOTED OTHERWISE (SEE DETAIL 122)

19. TYPICAL RECTANGULAR VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

20. COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
    STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251 OR DISPATCHER @ 414-286-5944
    TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148 OR DISPATCHER @ 414-286-3687

21. IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL VAULT, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONCRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
    STREET LIGHTING - DENNIS MILLER (OFFICE) 414-286-5942 (CELL) 414-708-4251
    STREET LIGHTING - GEORGE BERDINE (OFFICE) 414-286-5943 (CELL) 414-708-4245
    STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
    STREET LIGHTING - DISPATCHER @ 414-286-5944
    TRAFFIC SIGNALS - AL NICHOLS (OFFICE) 414-286-3687 (CELL) 414-708-5148
    TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

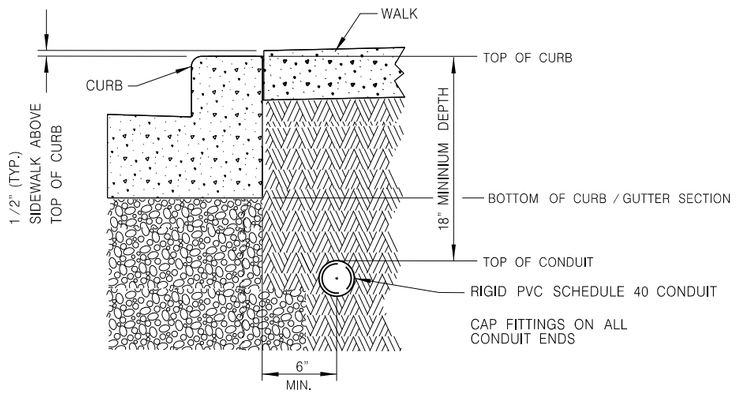
22. CONDUIT WILL ONLY BE INSTALLED AFTER THE CURB IS POURED, UNLESS APPROVED BY BOTH THE ENGINEER & STREET LIGHTING SHOP SUPERVISOR.

23. CONDUIT INSTALLATION FOR CONTROLLER BASES SHALL BE APPROVED BY CITY PRIOR TO POURING CONCRETE. COORDINATE VENTING OF TES CONDUIT AT EACH CONTROLLER BASE PRIOR TO INSTALLATION.

2

2

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



100 DETAIL "A"

TYPICAL CONDUIT INSTALLATION BEHIND CURB

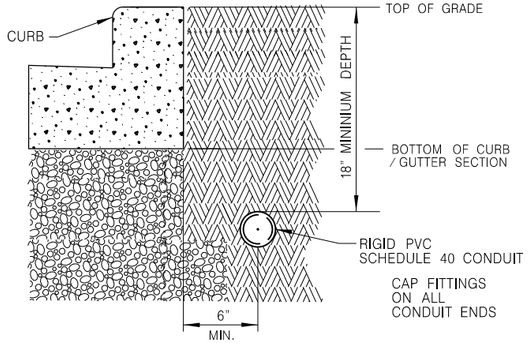
NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

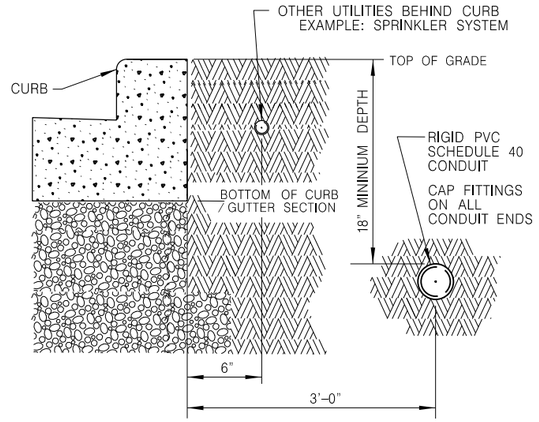
NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

DETAIL "B"

CONDUIT TO BE PLACED 6" ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



DETAIL "C"

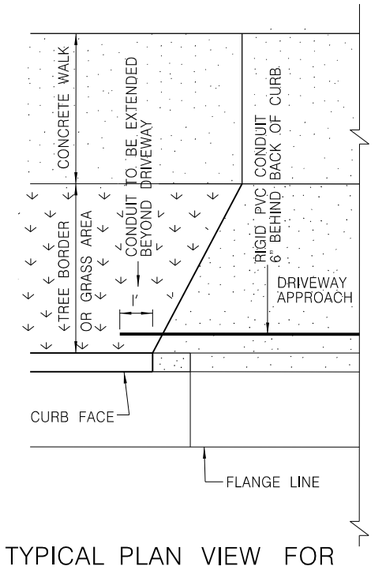


100 DETAIL "B" & "C"

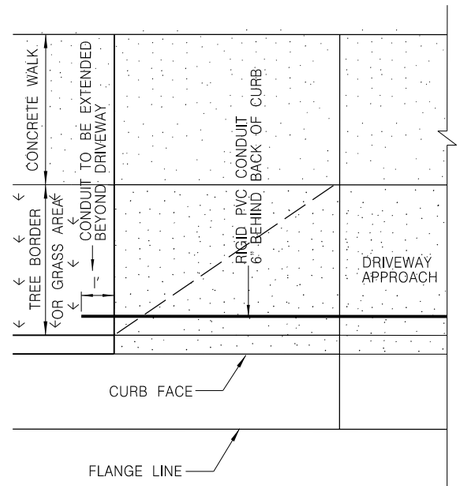
TYPICAL CONDUIT INSTALLATION BEHIND CURB

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.



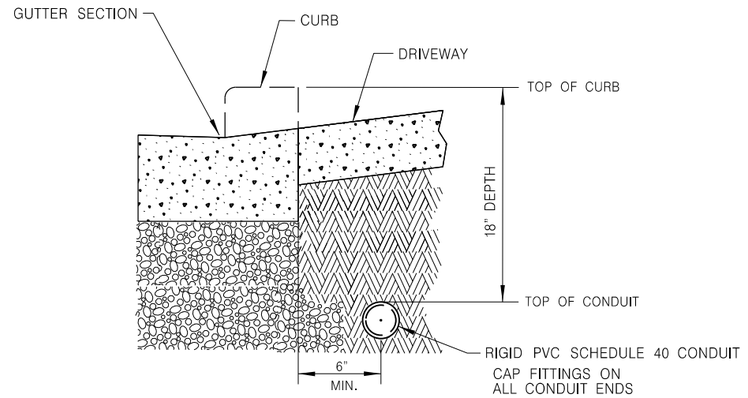
TYPICAL PLAN VIEW FOR FLARED DRIVEWAY



TYPICAL PLAN VIEW FOR DEPRESSED DRIVEWAY

2

NOTE: 1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.
2.) CONDUIT TO BE PLACED 6 INCHES ON CENTER DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



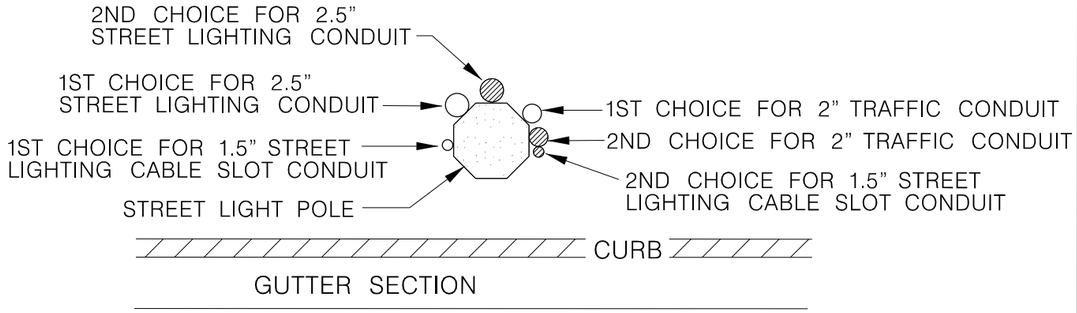
101 DETAIL

TYPICAL CONDUIT INSTALLATION UNDER DRIVEWAYS OR PEDESTRIAN RAMPS

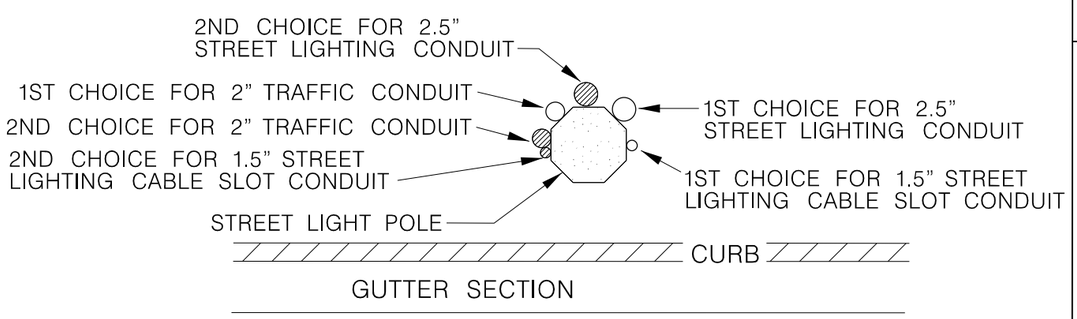
NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOTE: CAP FITTINGS ON CONDUIT ENDS



DIRECTION OF TRAFFIC AT CURB



DIRECTION OF TRAFFIC AT CURB

104 DETAIL

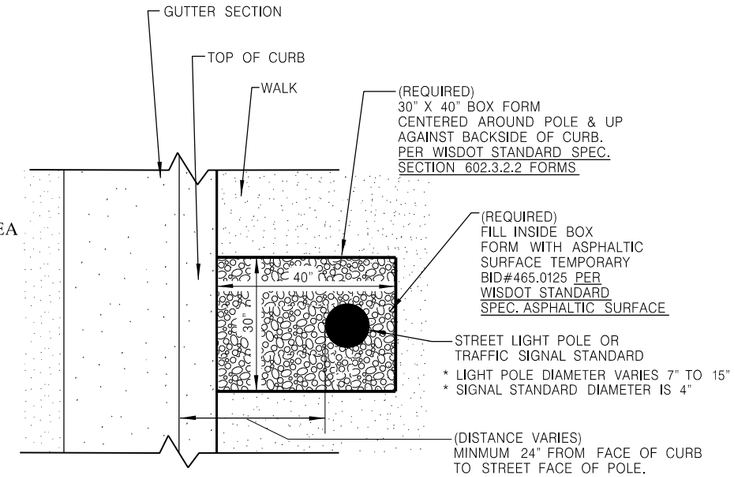
TYPICAL TRAFFIC SIGNAL RISER AND STREET LIGHTING CONDUIT LOCATIONS ON LIGHT POLES DEPENDING ON DIRECTION OF TRAFFIC AT CURB

NOT TO SCALE

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM TRAFFIC / STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

THE CONTRACTOR IS REQUIRED TO FORM OUT A OPENING IN THE CONCRETE WALK BEFORE POURING THE CONCRETE WALK AROUND TRAFFIC AND STREET LIGHTING FACILITIES. (AS SHOWN IN ADJACENT DETAIL)

THE CONTRACTOR IS REQUIRED TO FILL IN THE FORMED OUT AREA OPENING IN THE CONCRETE WALK WITH AN ASPHALTIC SURFACE (TEMPORARY), AFTER POURING THE CONCRETE WALK AROUND TRAFFIC AND STREET LIGHTING FACILITIES. (AS SHOWN IN ADJACENT DETAIL)

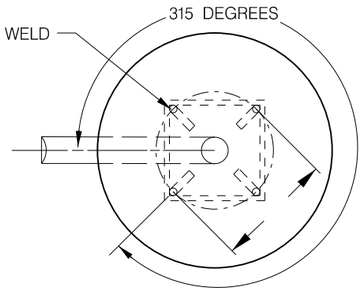


105 DETAIL

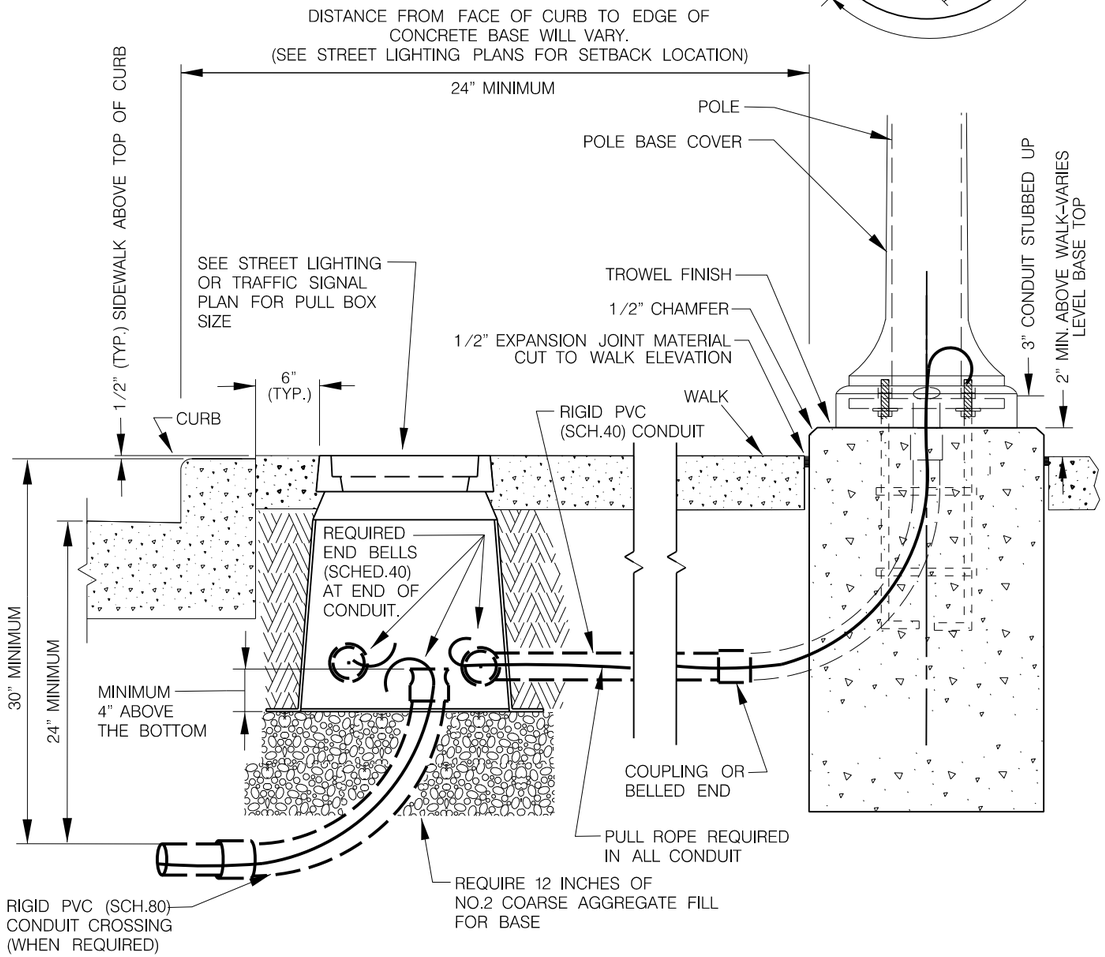
TYPICAL 30" X 40" BOX FORM AROUND STREET LIGHTING POLE OR TRAFFIC SIGNAL STANDARD

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES. CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE



BOLT CIRCLE
TOP VIEW

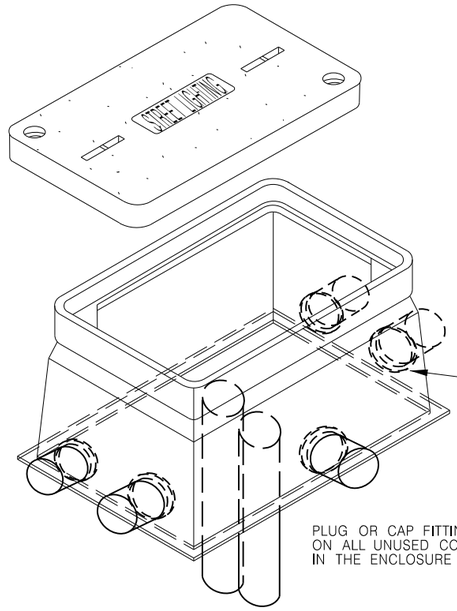


TYPICAL DETAIL

CONDUIT INSTALLATION FROM
PULL BOX TO POLE FOUNDATION

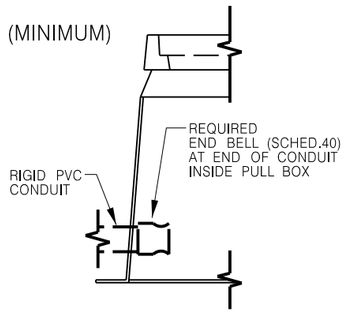
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

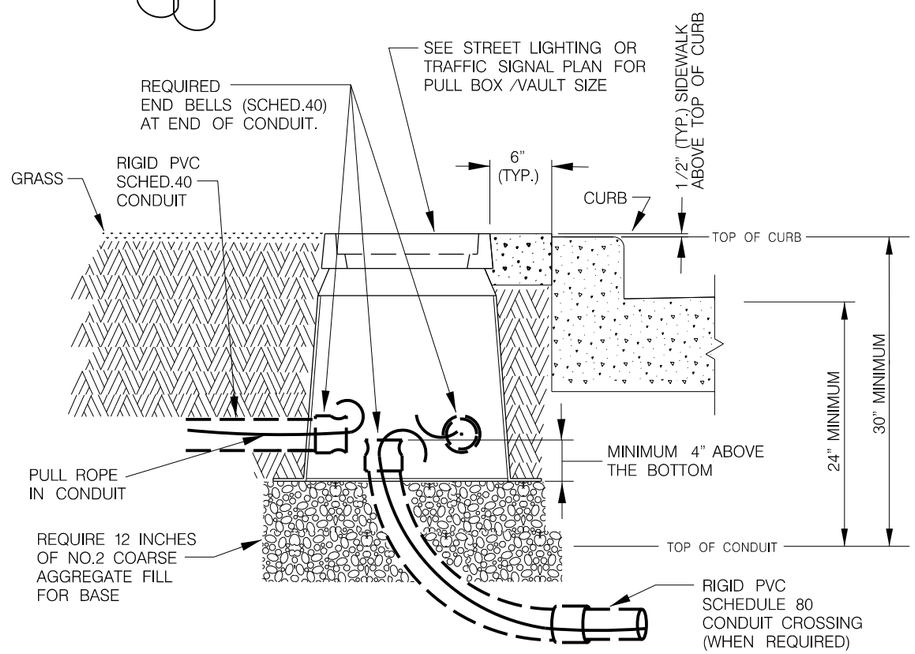
NOT TO SCALE



HEAVY DUTY COVER
W/ STREETLIGHTING LOGO
& W / 2 BOLTS
COLOR: GRAY
TIER 15 RATING (MINIMUM)

PULL BOX /VAULT
FLARED WALL
BOX W / NO BASE
COLOR: GRAY
TIER 15 RATING (MINIMUM)
(VARIOUS SIZES)





112 DETAIL

TYPICAL PULL BOX /VAULT INSTALLATION
IN EITHER PAVEMENT OR GRASS AREAS

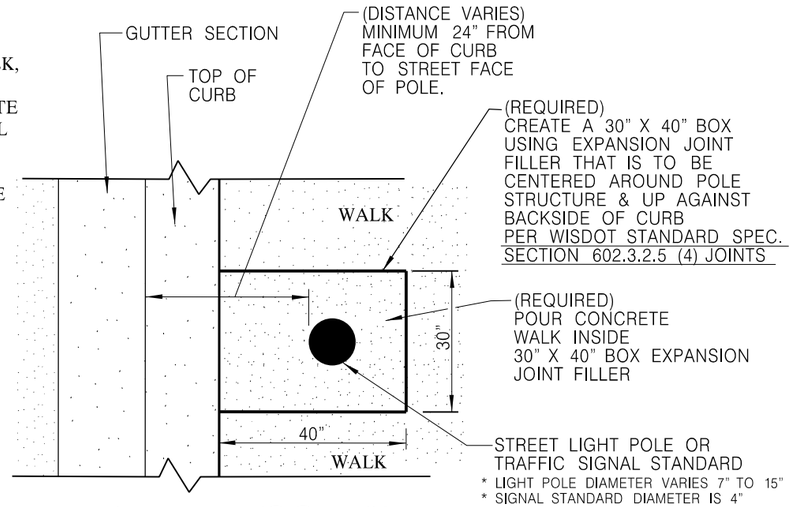
ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

PLOTDATE

THE CONTRACTOR IS REQUIRED TO INSTALL EXPANSION JOINT FILLER INTO THE CONCRETE WALK, WHICH SHALL BE 1/2" WIDE MINIMUM TO BE USED TO CREATE A SEPARATION BETWEEN A SMALL CONCRETE AREA AROUND THE TRAFFIC & STREET LIGHTING FACILITIES AND THE REST OF THE CONCRETE WALK.

THE BOX SIZE OF THE AREA CREATED USING THE EXPANSION JOINT FILLER IS STANDARD AROUND LIGHT POLES AND TRAFFIC SIGNALS, BUT WILL VARY WHEN PLACED AROUND TRAFFIC & LIGHTING CONTROL CABINETS.



122 DETAIL VERSION #1

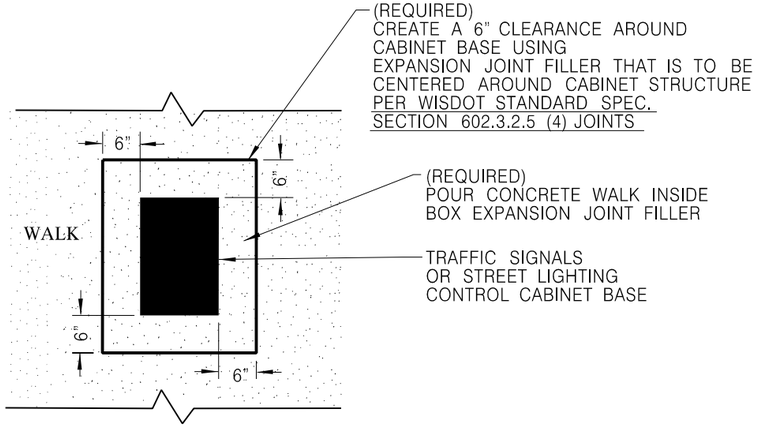
NOT TO SCALE

TYPICAL 30" X 40" BOX EXPANSION JOINT FILLER AROUND STREET LIGHTING AND TRAFFIC SIGNAL FACILITIES

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

THE CONTRACTOR IS REQUIRED TO INSTALL EXPANSION JOINT FILLER INTO THE CONCRETE WALK, WHICH SHALL BE 1/2" WIDE MINIMUM TO BE USED TO CREATE A SEPARATION BETWEEN A SMALL CONCRETE AREA AROUND THE TRAFFIC & STREET LIGHTING FACILITIES AND THE REST OF THE CONCRETE WALK.

THE BOX SIZE OF THE AREA CREATED USING THE EXPANSION JOINT FILLER IS STANDARD AROUND LIGHT POLES AND TRAFFIC SIGNALS, BUT WILL VARY WHEN PLACED AROUND TRAFFIC & LIGHTING CONTROL CABINETS.

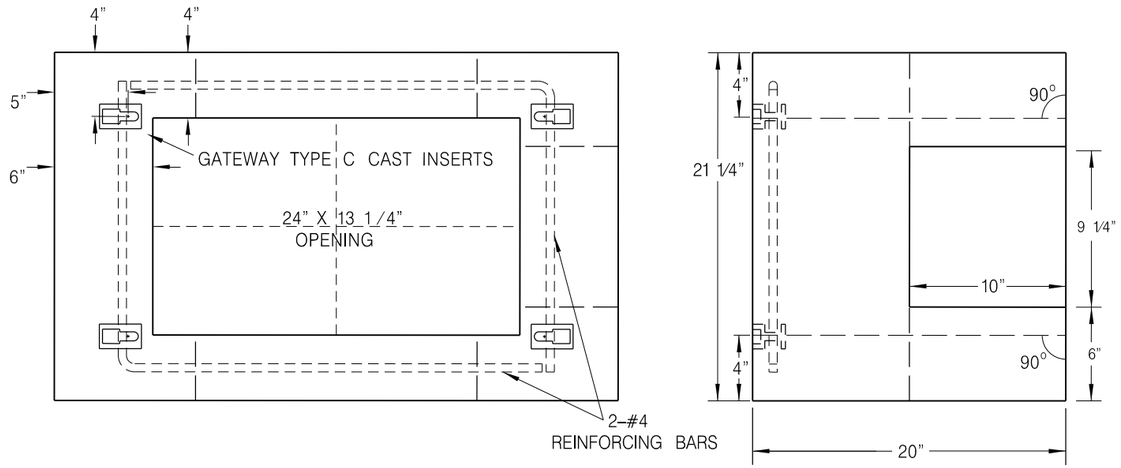


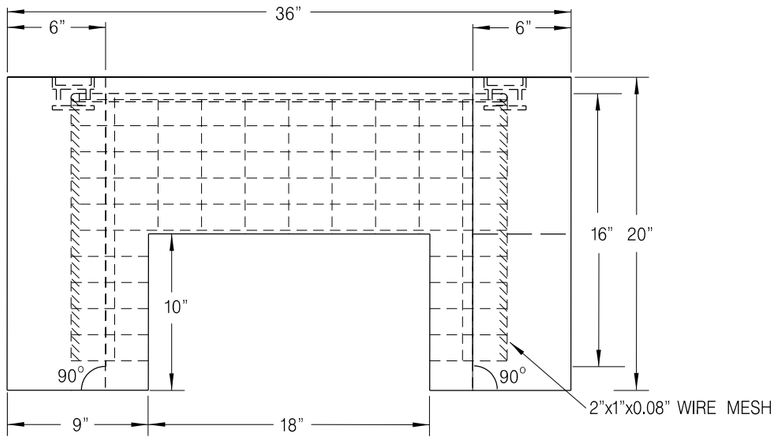
122 DETAIL VERSION #2

NOT TO SCALE

TYPICAL BOX EXPANSION JOINT FILLER AROUND TRAFFIC SIGNAL OR STREET LIGHTING CONTROL CABINET

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.





NOT TO SCALE

6 BAG MIX #1 STONE

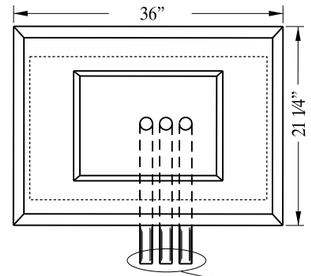
COMM. CODE XXXX–XXX				
PRE–CAST CONCRETE FOUNDATION				
TRAFFIC SIGNAL CABINETS P1 AND P2				
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES D.P.W. CITY OF MILWAUKEE				
TRAFFIC CONTROL MATERIAL				
DATE 8–30–16	SCALE N.T.S.	DRAWN JAB/JO	CHECKED SCB	APPROVED JCB
SUPERSEDES	REVISED DATE	DRG.		
SUPERSEDED BY	NEW DRG.	C–16–500–T		

125 DETAIL

TYPICAL TRAFFIC CONTROL CABINET CONCRETE FOUNDATION

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM TRAFFIC SIGNAL FORCES.
CONTACT DISPATCHER AT (414) 286–3687 FOR SHOP SUPERVISOR.

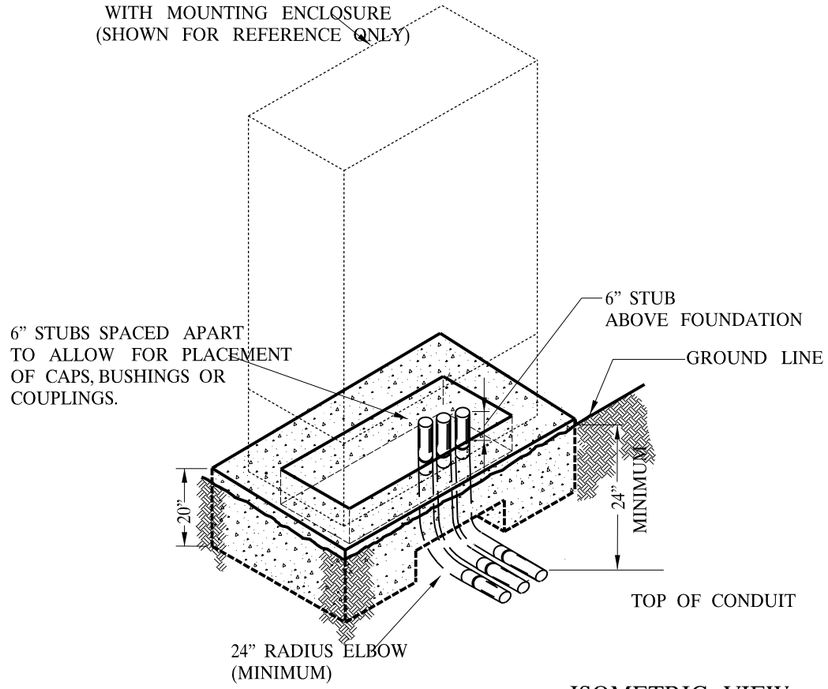
2



NOTE:
CONDUIT SHOWN ON PLAN INCIDENTAL. REFER TO STREET LIGHTING AND TRAFFIC SIGNAL CONDUIT PLAN FOR THE QUANTITY & SIZE OF CONDUIT REQUIRED IN THE CONCRETE CONTROL CABINET BASE

PLAN VIEW

STYLE P1 AND P2 TRAFFIC SIGNAL CONTROL CABINET WITH MOUNTING ENCLOSURE (SHOWN FOR REFERENCE ONLY)



ISOMETRIC VIEW

125B TYPICAL DETAIL

NOT TO SCALE

CONDUIT INSTALLATION TO TRAFFIC CONTROL CABINET CONCRETE FOUNDATION

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286–5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER. CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

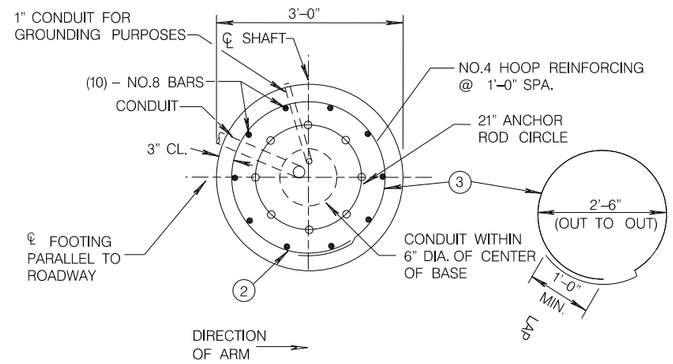
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

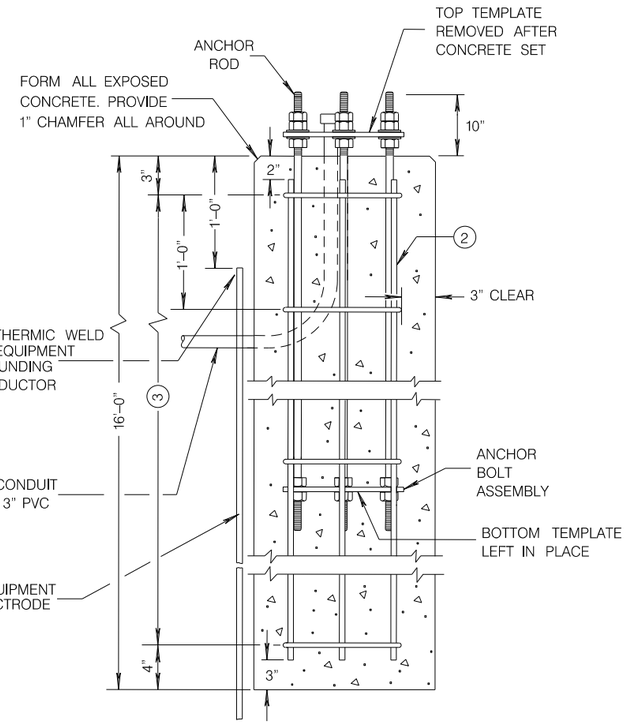
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER–RUN), EXCEPT WITH WRITTEN APPROVAL BY THE EINGINEER.

(2) (10) NO. 8 X 15'–7" BAR STEEL REINFORCEMENT.

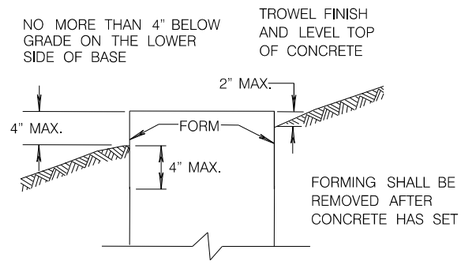
(3) (17) NO. 4 X 9'–0" BAR STEEL REINFORCEMENT @ 1'–0" C–C.

CONCRETE MASONRY	fc = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 p.s.i.
ANCHOR RODS, AASHTO M314 GRADE 55	fy = 55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy = 36,000 p.s.i.

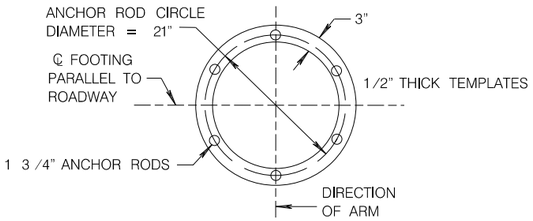




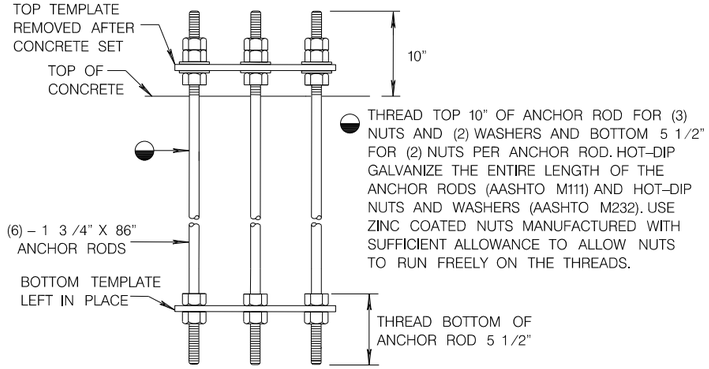
CONCRETE BASE TYPE 10 SPECIAL



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 SPECIAL

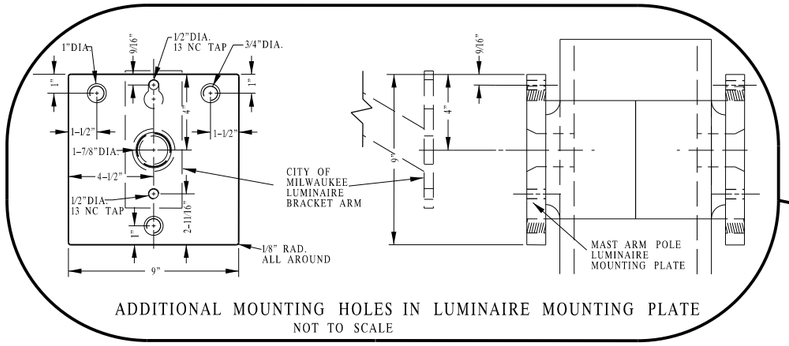
ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	4.19
LBS. OF HOOP BAR STEEL	103
LBS. OF VERTICAL BAR STEEL	417

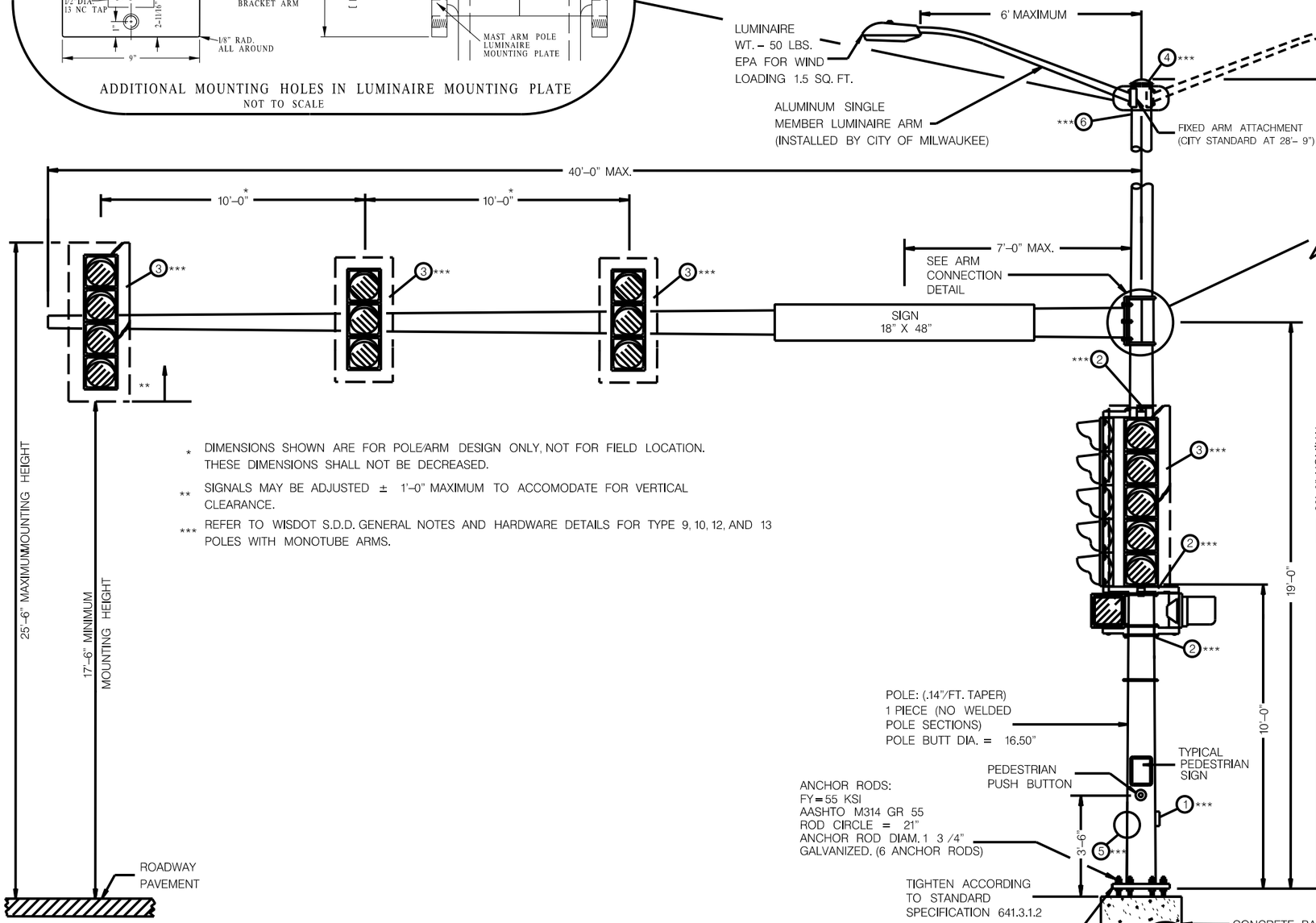
CONCRETE BASE TYPE 10 SPECIAL

CITY OF MILWAUKEE
DEPARTMENT OF PUBLIC WORKS

REVISED: DECEMBER 2014 (DATE) — 2013 AASHTO (REVISION)
REVISED: JULY 2015 (DATE) — 2015 DESIGN UPDATE (REVISION)
REVISED: NOVEMBER 2015 (DATE) — ANCHOR ROD PROJECTION UPDATE (REVISION)



ADDITIONAL MOUNTING HOLES IN LUMINAIRE MOUNTING PLATE
NOT TO SCALE



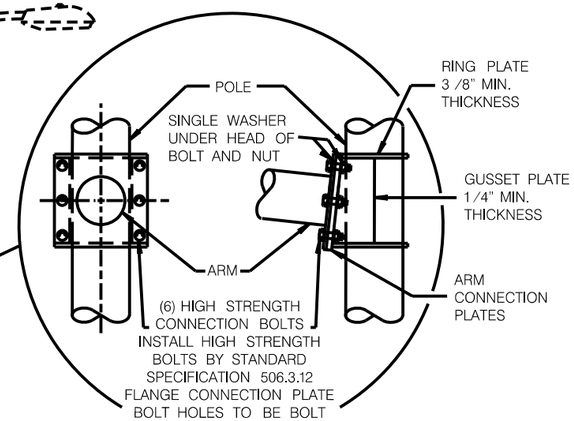
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'–0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

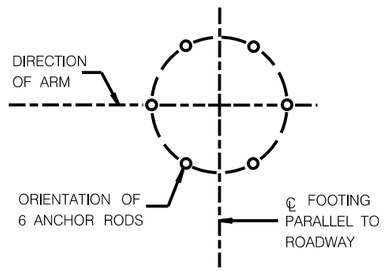
*** REFER TO WISDOT S.D.D. GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12, AND 13 POLES WITH MONOTUBE ARMS.

(MAXIMUM LOAD)

TYPE 13 POLE SPECIAL
35'– 40' MONOTUBE ARM



6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION

TYPE 13 POLE SPECIAL
35'– 40' MONOTUBE ARM

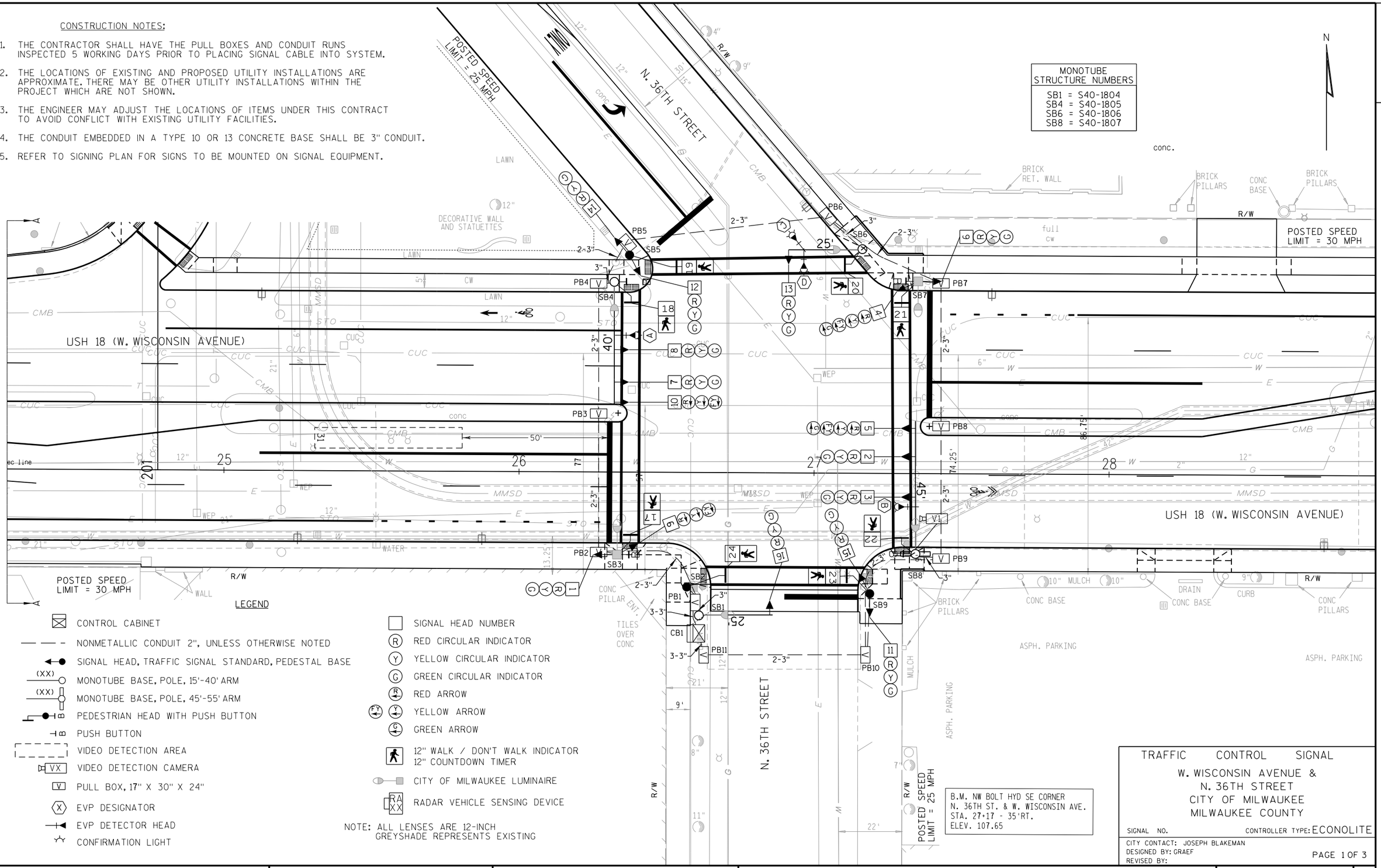
CITY OF MILWAUKEE
DEPARTMENT OF PUBLIC WORKS

REVISED:	DECEMBER 2014 (DATE)	2013 AASHTO (REVISION)
REVISED:	JULY 2015 (DATE)	2015 DESIGN UPDATE (REVISION)
REVISED:	JULY 2017 (DATE)	LUMINAIRE MOUNTING PLATE UPDATE (REVISION)

SHEET 8 OF 8

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. REFER TO SIGNING PLAN FOR SIGNS TO BE MOUNTED ON SIGNAL EQUIPMENT.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-40' ARM
- (XX) MONOTUBE BASE, POLE, 45'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- V PULL BOX, 17" X 30" X 24"
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- 12" WALK / DON'T WALK INDICATOR 12" COUNTDOWN TIMER
- CITY OF MILWAUKEE LUMINAIRE
- RA XX RADAR VEHICLE SENSING DEVICE

NOTE: ALL LENSES ARE 12-INCH GREYSHADE REPRESENTS EXISTING

B.M. NW BOLT HYD SE CORNER
N. 36TH ST. & W. WISCONSIN AVE.
STA. 27+17 - 35'RT.
ELEV. 107.65

TRAFFIC CONTROL SIGNAL
W. WISCONSIN AVENUE &
N. 36TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: ECONOLITE

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 181	E

2

2

RR TIE BORDER

ASPH.

RR TIE BORDER

ASPH.

RR TIE BORDER

ENT

ENT

ENT

ENT

ENT

USH 18 (W. WISCONSIN AVENUE)

19.5'

8"

CUC

12"

12"

8"

S5

S4

S3

S2

18"

8"

45'

63'

12"

CUC

CUC

CUC

CUC

CUC

CUC

CUC

CUC

CUC

CONC

20

NO CURB

21

22

77'

23

N.89°01'02"E.

24

1/4 s

CUC

CONC PARAPET WALL

12"

33'

WEP

TS

RA 1

E

E

E

E

E

E

E

E

E

37'

18"

FULL CW W/INT C&C

LAWN

4'

INSTALL RADAR VEHICLE SENSING DEVICE (RA1) ON STREET LIGHT POLE #3801. DATA/ POWER CABLES SHALL SHARE STREET LIGHTING CONDUIT.

42"

LAWN

WOOD BOX

FULL CW

21"

42"

LAWN

4'

ASPH. PARKING

ASPH. PARKING

LAWN

11"

WEP

SAP

N. 38TH STREET

ASPH. PARKING

#3801

BUSHES @ HIGH CW

E

8"

TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 36TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 182	E

FILE NAME : X:\ML\2016\20160900-02\CAD\Transportation\dgn\00\01_36th_Street\024022_36th_sp.dgn

PLOT DATE : 9/28/2017

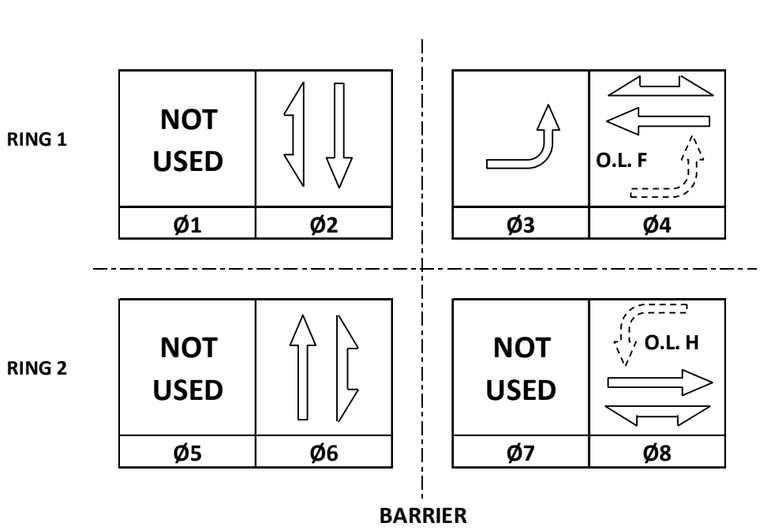
PLOT BY : GRAEF

PLOT NAME :

PLOT SCALE : 30.0000 sf / in.

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	14,15,16	R
Ø3	4,5	R ←
Ø4	6,7,8	R
Ø5		
Ø6	11,12,13	R
Ø7		
Ø8	1,2,3	R
Ø2P	17,18	
Ø4P	19,20	
Ø6P	21,22	
Ø8P	23,24	
OLE		
OLF	4,5	--
OLG		
OLH	9,10	R ←



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↑	↓
PHASE	4	3+8	2+6	2+6

AFTER PREEMPTION SEQUENCE 4 OR 3+8, CONTROLLER SHALL RETURN TO PHASES 4+8.
AFTER PREEMPTION SEQUENCE 2+6, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE CITY LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	31																PLAN LOOP DETECTOR*(S)
CALLED PHASE	3																CALLED PHASE
CALL OPTION	X																CALL OPTION
DELAY TIME	X																DELAY TIME
EXTENTION OPTION	X																EXTENTION OPTION
EXTEND TIME	X																EXTEND TIME
USE ADDED INITIAL																	USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)																	PLAN LOOP DETECTOR*(S)
CALLED PHASE																	CALLED PHASE
CALL OPTION																	CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION																	EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL																	USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

W. WISCONSIN AVENUE & N. 36TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO:	CABINET TYPE: TS2
	CONTROLLER TYPE: ECONOLITE
DATE: 9/17	PAGE NO. 3 OF 3

PROJECT ID:	2190-00-71
INTERSECTION:	W. WISCONSIN AVENUE & N. 36TH STREET

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	
SB1	7											
		16	RED	ORG	GRN							
SB2	7											
		24								BLK	BLU	
SB3	12											
		9				RED	ORG		GRN			
		17								BLK	BLU	
		B										WHT/BLK
SB4	15											
		7	RED	ORG	GRN							
		8	RED/BLK	ORG/BLK	GRN/BLK							
		10				RED/WHT	BLU/WHT		GRN/WHT			
		18								BLK	BLU	
		B										WHT/BLK
SB5	12											
		12	RED	ORG	GRN							
		19								BLK	BLU	
SB6	12											
		13	RED	ORG	GRN							
		20								BLK	BLU	
SB7	15											
		4				RED	ORG	GRN	BLU/BLK			
		6	RED/BLK	ORG/BLK	GRN/BLK							
		21								BLK	BLU	
		B										WHT/BLK
SB8	19											
		2	RED	ORG	GRN							
		3	RED/BLK	ORG/BLK	GRN/BLK							
		5				RED/WHT	BLU/WHT	GRN/WHT	BLU/BLK			
		22								BLK	BLU	
		B										WHT/BLK
SB9	12											
		11	RED	ORG	GRN							
		15	RED/BLK	ORG/BLK	GRN/BLK							
		23								BLK	BLU	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	CB1

NOTES:

*USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 36TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 1

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. REFER TO SIGNING PLAN FOR SIGNS TO BE MOUNTED ON SIGNAL EQUIPMENT.

MONOTUBE STRUCTURE NUMBERS

SB2 = S40-1808
SB4 = S40-1809
SB6 = S40-1810
SB8 = S40-1811

N

USH 18 (N. 35TH STREET)

USH 18 (W. WISCONSIN AVENUE)

W. WISCONSIN AVENUE

N. 35TH STREET

POSTED SPEED LIMIT = 30 MPH

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-40' ARM
- PEDESTRIAN HEAD
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- V PULL BOX, 17" X 30" X 24"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- GA GREEN ARROW
- 12" WALK / DON'T WALK INDICATOR 12" COUNTDOWN TIMER
- 24" X 24" BLANKOUT SIGN
- CITY OF MILWAUKEE LUMINAIRE

NOTE: ALL LENSES ARE 12-INCH GREYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 35TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: ECONOLITE

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 185 E

FILE NAME : X:\ML\2016\20160900-02\CAD\Transportation\dgn\00\02\35th\Street\024021\35th\sp.dgn PLOT DATE : 1/3/2018 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 30.0000 sf / in.

PROJECT ID:	2190-00-71
INTERSECTION:	W. WISCONSIN AVENUE & N. 35TH STREET

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	
SB1	12											
		14	RED	ORG	GRN							
		21								BLK	BLU	
SB2	12											
		12	RED	ORG	GRN							
		13	RED/BLK	ORG/BLK	GRN/BLK							
		22								BLK	BLU	
SB3	12											
		4				RED	ORG		GRN			
		6	RED/BLK	ORG/BLK	GRN/BLK							
		23								BLK	BLU	
SB4	15											
		2	RED	ORG	GRN							
		3	RED/BLK	ORG/BLK	GRN/BLK							
		5				RED/WHT	BLU/WHT		GRN/WHT			
		24								BLK	BLU	
SB5	12											
		11	RED	ORG	GRN							
		17				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK			
		25								BLK	BLU	
SB6	15											
		15	RED	ORG	GRN							
		16	RED/BLK	ORG/BLK	GRN/BLK							
		18				RED/WHT	BLU/WHT	GRN/WHT	BLU/BLK			
		26								BLK	BLU	
SB7	12											
		9				RED	ORG		GRN			
		19								BLK	BLU	
SB8	15											
		7	RED	ORG	GRN							
		8	RED/BLK	ORG/BLK	GRN/BLK							
		10				RED/WHT	BLU/WHT		GRN/WHT			
		20								BLK	BLU	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

BLANK OUT SIGN CABLE 5-14 AWG	
FROM	TO
CB1	HEAD 27
CB1	HEAD 28

NOTES:

*USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

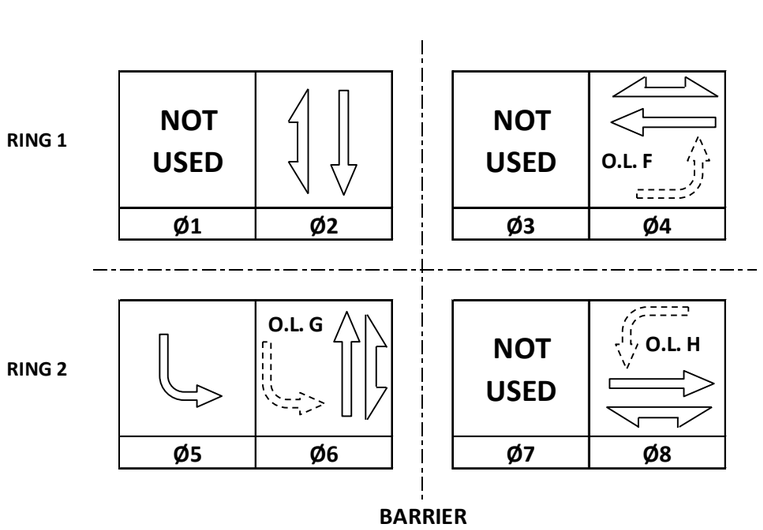
TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 35TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CABLE ROUTING	SHEET 186	E

	HEAD NUMBERS	FLASH
Ø1		
Ø2	14,15,16	R
Ø3		
Ø4	6,7,8	R
Ø5	17,18	R ←
Ø6	11,12,13	R
Ø7		
Ø8	1,2,3	R
Ø2P	19,20	
Ø4P	21,22	
Ø6P	23,24	
Ø8P	25,26	
OLE		
OLF	4,5	R ←
OLG	17,18	--
OLH	9,10	R ←



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2	6	4+7	8

AFTER PREEMPTION SEQUENCE 4 OR 8, CONTROLLER SHALL RETURN TO PHASES 4+8.
AFTER PREEMPTION SEQUENCE 2+5 OR 6, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE CITY LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	51																PLAN LOOP DETECTOR*(S)
CALLED PHASE	5																CALLED PHASE
CALL OPTION	X																CALL OPTION
DELAY TIME	X																DELAY TIME
EXTENTION OPTION	X																EXTENTION OPTION
EXTEND TIME	X																EXTEND TIME
USE ADDED INITIAL																	USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)																	PLAN LOOP DETECTOR*(S)
CALLED PHASE																	CALLED PHASE
CALL OPTION																	CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION																	EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL																	USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

GENERAL NOTES:

1. NORTHBOUND NO LEFT-TURN BLANK OUT SIGN SHALL OPERATE ONLY WHEN SPECIFIED. CITY OF MILWAUKEE TO PROVIDE OF DAY INFORMATION.

W. WISCONSIN AVENUE & N. 35TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO: CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 9/17 PAGE NO. 2 OF 2

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. REFER TO SIGNING PLAN FOR SIGNS TO BE MOUNTED ON SIGNAL EQUIPMENT.

MONOTUBE STRUCTURE NUMBERS
SB1 = S40-1812
SB5 = S40-1813

N

N. 32ND STREET

W. WISCONSIN AVENUE

POSTED SPEED LIMIT = 30 MPH

POSTED SPEED LIMIT = 25 MPH

CB1 PB1 3" SB1 SB2 PB2 SB3 ISB4 PB3 PB4 PB5 SB5 SB6 SB7 PB6 PB7 SB8 PB8 PB9 PB10 V1

111 112 113 114 115 +50 1/4 sec line

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- V PULL BOX, 17" X 30" X 24"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- 12" WALK / DON'T WALK INDICATOR 12" COUNTDOWN TIMER
- CITY OF MILWAUKEE LUMINAIRE

NOTE: ALL LENSES ARE 12-INCH GREYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE & N. 32ND STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: ECONOLITE

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 188 E

FILE NAME : X:\ML\2016\20160900-02\CAD\Transportation\dgn\00\03\32nd&Street\024021&32nd&sp.dgn PLOT DATE : 1/3/2018 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 30.0000 sf / in.

PROJECT ID:	2190-00-70
INTERSECTION:	W. WISCONSIN AVENUE & N. 32ND STREET

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	
SB1	12											
		5	RED	ORG	GRN							
		6	RED/BLK	ORG/BLK	GRN/BLK							
		8				BLK	BLU		BLU/BLK			
SB2	7											
		10	RED	ORG	GRN							
SB3	7											
		11	RED	ORG	GRN							
SB4	12											
		4	RED	ORG	GRN							
		12								BLK	BLU	
		B										WHT/BLK
SB5	12											
		2	RED	ORG	GRN							
		3	RED/BLK	ORG/BLK	GRN/BLK							
SB6	7											
		13								BLK	BLU	
		B										WHT/BLK
SB7	12											
		9	RED	ORG	GRN							
		14								BLK	BLU	
SB8	12											
		1	RED	ORG	GRN							
		7				RED/BLK	ORG/BLK		GRN/BLK			
		15								BLK	BLU	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

NOTES:

*USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

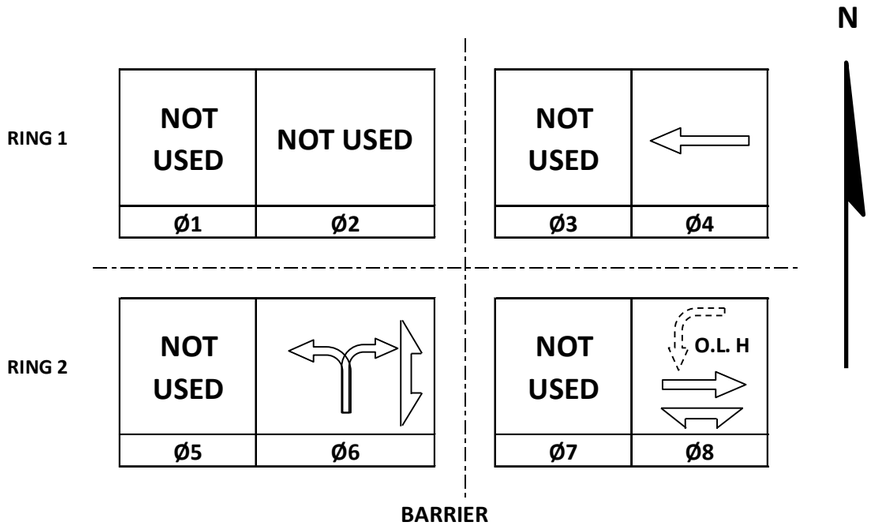
TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 32ND STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 1

	HEAD NUMBERS	FLASH
Ø1		
Ø2		
Ø3		
Ø4	6,7,8	R
Ø5		
Ø6	9,10,11	R
Ø7		
Ø8	1,2,3	R
Ø2P		
Ø4P		
Ø6P	12,13	
Ø8P	14,15	
OLE		
OLF		
OLG		
OLH	4,5	R ←



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	
MOVEMENT	←	↙→	Y	
PHASE	4	8	6	

AFTER PREEMPTION SEQUENCE 4 OR 8, CONTROLLER SHALL RETURN TO PHASES 4+8.
AFTER PREEMPTION SEQUENCE 6, CONTROLLER SHALL RETURN TO PHASES 6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE CITY LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	61							
CALLED PHASE	6							
CALL OPTION	X							
DELAY TIME	X							
EXTENTION OPTION	X							
EXTEND TIME	X							
USE ADDED INITIAL								
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)								
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

W. WISCONSIN AVENUE & N. 32ND STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO: CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 9/17 PAGE NO. 2 OF 2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- V PULL BOX, 17" X 30" X 24"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- 12" WALK / DON'T WALK INDICATOR
  12" COUNTDOWN TIMER
- CITY OF MILWAUKEE LUMINAIRE

NOTE: ALL LENSES ARE 12-INCH
GREYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS

SB2	S40-1814
SB4	S40-1815
SB6	S40-1816
SB8	S40-1817

N

POSTED SPEED LIMIT = 25 MPH

N. 26TH STREET

R/W

W. WISCONSIN AVENUE

POSTED SPEED LIMIT = 30 MPH

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

CB1 PB10 PB9

+50 132 +50 133 +50 134 +50 1/4 sec line 135 +50 136

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. REFER TO SIGNING PLAN FOR SIGNS TO BE MOUNTED ON SIGNAL EQUIPMENT.

TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 26TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: ECONOLITE

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 191	E

FILE NAME : X:\ML\2016\20160900-02\CAD\Transportation\dgn\00\04\26th\Street\0240211\26th\esp.dgn PLOT DATE : 1/3/2018 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 30.0000 sf / in.

WISDOT/CADDS SHEET 42

PROJECT ID:	2190-00-70
INTERSECTION:	W. WISCONSIN AVENUE & N. 26TH STREET

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	
SB1	12											
		1	RED	ORG	GRN							
		9				RED/BLK	ORG/BLK		GRN/BLK			
		17								BLK	BLU	
		B										WHT/BLK
SB2	15											
		7	RED	ORG	GRN							
		8	RED/BLK	ORG/BLK	GRN/BLK							
		10				RED/WHT	BLU/WHT		GRN/WHT			
		18								BLK	BLU	
		B										WHT/BLK
SB3	12											
		12	RED	ORG	GRN							
		14	RED/BLK	ORG/BLK	GRN/BLK							
		19								BLK	BLU	
SB4	7											
		13	RED	ORG	GRN							
SB5	15											
		4				RED	ORG		GRN			
		6	RED/BLK	ORG/BLK	GRN/BLK							
		20								BLK	BLU	
		21								RED/WHT	GRN/WHT	
		B										WHT/BLK
SB6	15											
		2	RED	ORG	GRN							
		3	RED/BLK	ORG/BLK	GRN/BLK							
		5				RED/WHT	BLU/WHT		GRN/WHT			
		22								BLK	BLU	
		B										WHT/BLK
SB7	12											
		11	RED	ORG	GRN							
		15	RED/BLK	ORG/BLK	GRN/BLK							
		23								BLK	BLU	
SB8	12											
		16	RED	ORG	GRN							
		24								BLK	BLU	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

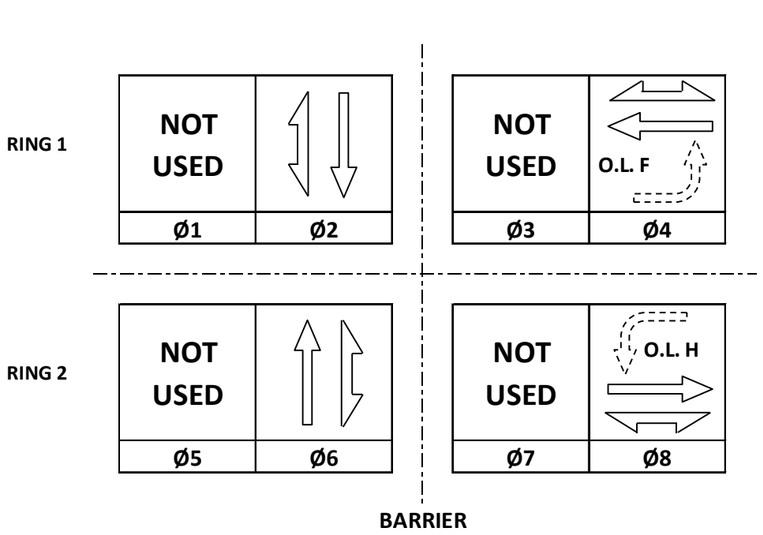
NOTES:

*USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

TRAFFIC CONTROL SIGNAL
W. WISCONSIN AVENUE &
N. 26TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

	HEAD NUMBERS	FLASH
Ø1		
Ø2	14,15,16	R
Ø3		
Ø4	6,7,8	R
Ø5		
Ø6	11,12,13	R
Ø7		
Ø8	1,2,3	R
Ø2P	17,18	
Ø4P	19,20	
Ø6P	21,22	
Ø8P	23,24	
OLE		
OLF	4,5	R ←
OLG		
OLH	9,10	R ←



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓ ↑	↓ ↑
PHASE	4	8	2+6	2+6

AFTER PREEMPTION SEQUENCE 4 OR 8, CONTROLLER SHALL RETURN TO PHASES 4+8.
AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE CITY LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	21							
CALLED PHASE	2							
CALL OPTION	X							
DELAY TIME	X							
EXTENTION OPTION	X							
EXTEND TIME	X							
USE ADDED INITIAL								
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	61							
CALLED PHASE	6							
CALL OPTION	X							
DELAY TIME	X							
EXTENTION OPTION	X							
EXTEND TIME	X							
USE ADDED INITIAL								
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

W. WISCONSIN AVENUE & N. 26TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO:	CABINET TYPE: TS2
	CONTROLLER TYPE: ECONOLITE
DATE: 9/17	PAGE NO. 2 OF 2

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET NO: 193	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

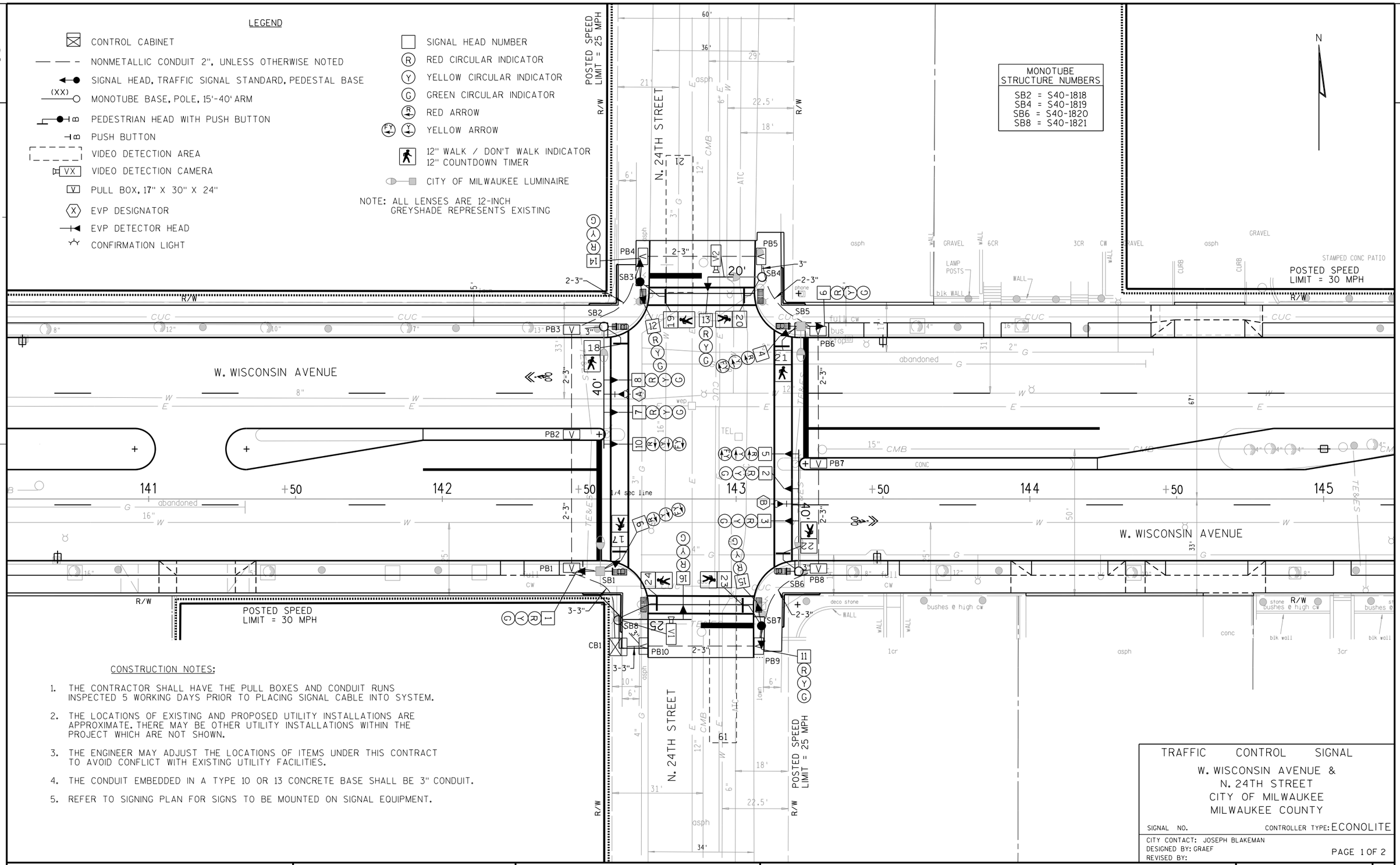
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-40' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- VIDEO DETECTION AREA
- VX VIDEO DETECTION CAMERA
- V PULL BOX, 17" X 30" X 24"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- 12" WALK / DON'T WALK INDICATOR
  12" COUNTDOWN TIMER
- CITY OF MILWAUKEE LUMINAIRE

NOTE: ALL LENSES ARE 12-INCH
GREYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS

SB2	S40-1818
SB4	S40-1819
SB6	S40-1820
SB8	S40-1821



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. THE CONDUIT EMBEDDED IN A TYPE 10 OR 13 CONCRETE BASE SHALL BE 3" CONDUIT.
5. REFER TO SIGNING PLAN FOR SIGNS TO BE MOUNTED ON SIGNAL EQUIPMENT.

TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 24TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: ECONOLITE

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 194 E

PROJECT ID:	2190-00-70
INTERSECTION:	W. WISCONSIN AVENUE & N. 24TH STREET

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	
SB1	15											
		1	RED	ORG	GRN							
		9				RED/BLK	ORG/BLK		GRN/BLK			
		17								BLK	BLU	
		24								RED/WHT	GRN/WHT	
		B										WHT/BLK
SB2	15											
		7	RED	ORG	GRN							
		8	RED/BLK	ORG/BLK	GRN/BLK							
		10				RED/WHT	GRN/WHT		BLU/WHT			
		18								BLK	BLU	
		B										WHT/BLK
SB3	12											
		12	RED	ORG	GRN							
		14	RED/BLK	ORG/BLK	GRN/BLK							
		19								BLK	BLU	
SB4	12											
		13	RED	ORG	GRN							
		20								BLK	BLU	
SB5	15											
		4				RED	ORG		GRN			
		6	RED/BLK	ORG/BLK	GRN/BLK							
		21								BLK	BLU	
		B										WHT/BLK
SB6	15											
		2	RED	ORG	GRN							
		3	RED/BLK	ORG/BLK	GRN/BLK							
		5				RED/WHT	GRN/WHT		BLU/WHT			
		22								BLK	BLU	
		B										WHT/BLK
SB7	12											
		11	RED	ORG	GRN							
		15	RED/BLK	ORG/BLK	GRN/BLK							
		23								BLK	BLU	
SB8	12											
		16	RED	ORG	GRN							
		24								BLK	BLU	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

NOTES:

*USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
*RECONNECT THE GROUNDING CONDUCTORS WHENEVER THE CIRCUIT HAS BEEN INTERRUPTED TO ENSURE THE GROUNDING CIRCUIT IS COMPLETE.

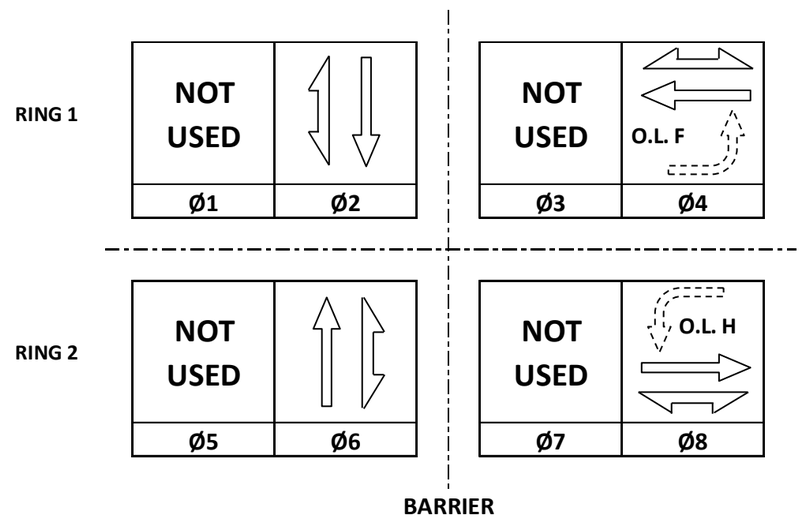
TRAFFIC CONTROL SIGNAL

W. WISCONSIN AVENUE &
N. 24TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

CITY CONTACT: JOSEPH BLAKEMAN
DESIGNED BY: GRAEF
REVISED BY:

PAGE 1 OF 1

	HEAD NUMBERS	FLASH
Ø1		
Ø2	14,15,16	R
Ø3		
Ø4	6,7,8	R
Ø5		
Ø6	11,12,13	R
Ø7		
Ø8	1,2,3	R
Ø2P	17,18	
Ø4P	19,20	
Ø6P	21,22	
Ø8P	23,24	
OLE		
OLF	4,5	R ←
OLG		
OLH	9,10	R ←



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→		
PHASE	4	8		

AFTER PREEMPTION SEQUENCE 4 OR 8, CONTROLLER SHALL RETURN TO PHASES 4 + 8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	X
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE CITY LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	21																PLAN LOOP DETECTOR*(S)
CALLED PHASE	2																CALLED PHASE
CALL OPTION	X																CALL OPTION
DELAY TIME	X																DELAY TIME
EXTENTION OPTION	X																EXTENTION OPTION
EXTEND TIME	X																EXTEND TIME
USE ADDED INITIAL																	USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	61																PLAN LOOP DETECTOR*(S)
CALLED PHASE	6																CALLED PHASE
CALL OPTION	X																CALL OPTION
DELAY TIME	X																DELAY TIME
EXTENTION OPTION	X																EXTENTION OPTION
EXTEND TIME	X																EXTEND TIME
USE ADDED INITIAL																	USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

W. WISCONSIN AVENUE & N. 24TH STREET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

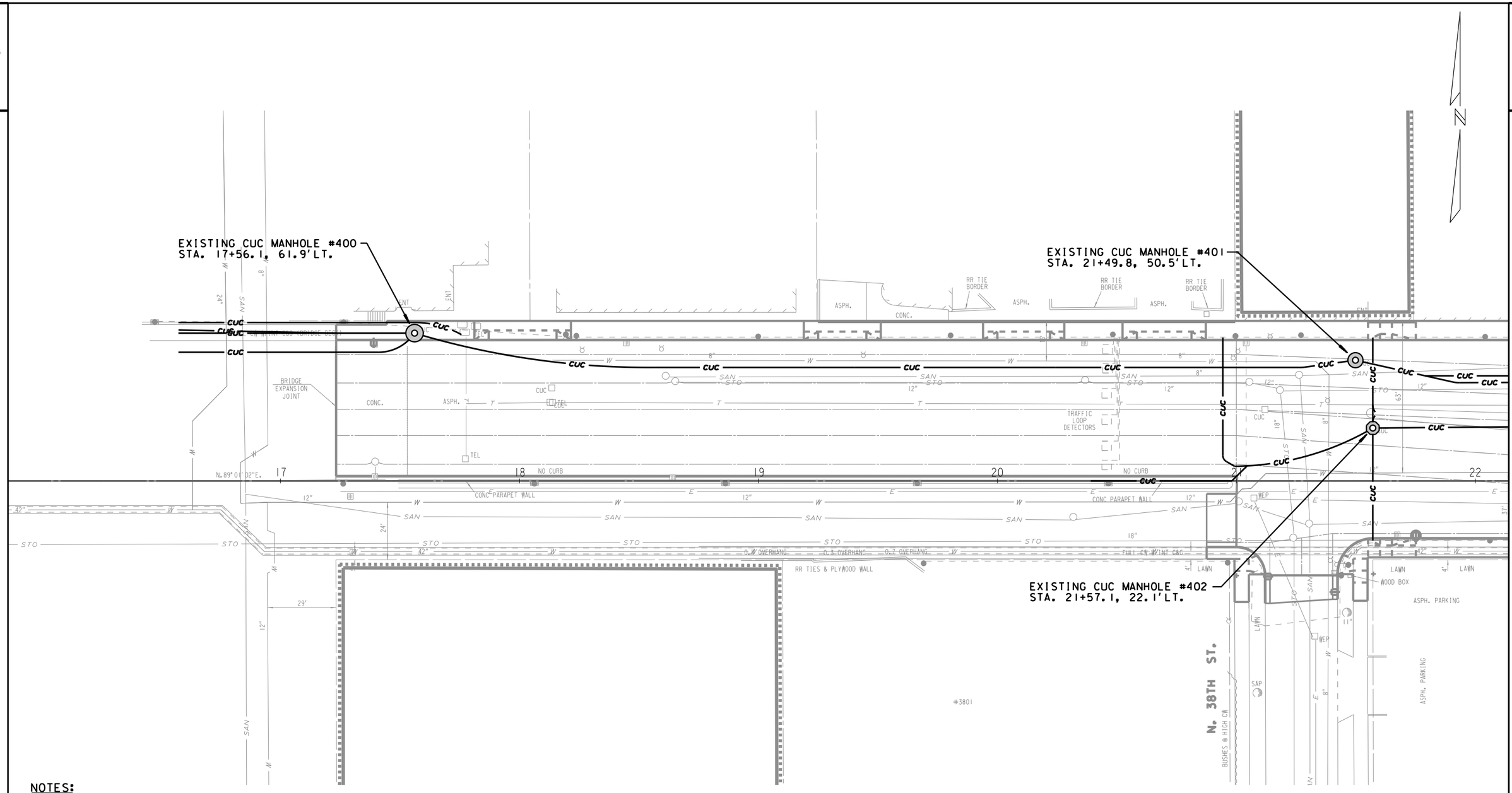
SIGNAL NO:	CABINET TYPE: TS2
	CONTROLLER TYPE: ECONOLITE
DATE: 9/17	PAGE NO. 2 OF 2

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	SEQUENCE OF OPERATIONS	SHEET NO: 196	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

2

2



NOTES:

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5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180° TO EACH OTHER.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
◎	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 1 OF 17

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 197	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\16-22.DGN

CONTINUED ON SHEET 3

EXISTING CUC MANHOLE #405
STA. 25+40.5, 42.5'LT.

PROPOSED MANHOLE #404
STA. 24+72.6, 26.4'LT.
PRECAST 5'DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #403R
STA. 24+73.6, 24.9'LT.

N. 37TH ST.

MATCH POINT

EXISTING CUC MANHOLE #409
STA. 25+64.3, 94.6'LT.

EXISTING CUC MANHOLE #410
STA. 26+58.2, 42.1'LT.

EXISTING CUC MANHOLE #411
STA. 27+34.8, 24.5'LT.

DECORATIVE WALL AND STATUETTES

3.5"FIBER

EXISTING CUC MANHOLE #406
STA. 25+46.4, 23.6'LT.

92'-2-4"PVC CONDUIT CEMENT ENCASED

CAP DUCT

CONNECT TO TRAFFIC CONTROLLER DUCT

PROPOSED TRAFFIC CONTROL CABINET BY OTHERS

N. 36TH ST.

EXISTING POLICE CALL BOX

11.25°, 12.5'R. HUB
STA. 26+66.4, 20.5'LT.

22.5°, 12.5'R. HUB
STA. 26+66.6, 35.5'RT.

#3601 TO 3711
WISCONSIN KITCHEN MART

B.M. NW BOLT HYD
S/S W. WISCONSIN AVE. @ #3601
STA. 24+72 - 25'RT.
ELEV. 106.93

B.M. NW BOLT HYD SE CORNER
N. 36TH ST. & W. WISCONSIN AVE.
STA. 27+17 - 35'RT.
ELEV. 107.65

N. 89°01'02"E.

1/4 SEC LINE

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6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180° TO EACH OTHER.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 2 OF 17

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 198 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\22-28.DGN

2

43'-6-4"PVC DUCTS CONCRETE ENCASED EXTEND TO CONCRETE PAVING LIMITS CAP DUCTS

EXISTING CUC MANHOLE #412
STA. 29+91.9, 54.0'LT.

PROPOSED TRAFFIC CONTROL CABINET
STA. 29+75.7, 76.7'LT.

25'-2-4"PVC DUCTS CONCRETE ENCASED CONNECT TO TRAFFIC CONTROLLER DUCT

SEE DETAIL BELOW

PROPOSED MANHOLE #413
STA. 30+38.3, 44.6'LT.
PRECAST 5'DIA. "DOGHOUSE"
OVER EXISTING CONDUIT

EXISTING CUC MANHOLE #415
STA. 30+71.6, 63.9'LT.

EXISTING CUC MANHOLE #414
STA. 30+50.7, 40.8'LT.

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA. 105+63.50

210'-6-4"PVC CONDUIT CEMENT ENCASED

46.0'

11'-DUCT REMOVAL FROM CONCRETE ENCASED DUCT

11.25°, 12.5'RAD. HUB
STA. 103+93.4, 33.5'LT.

105'-6-4"PVC DUCTS CONCRETE ENCASED EXTEND TO CONCRETE PAVING LIMITS CAP DUCTS

90°, 5'RAD. HUB
STA. 26+70.6, 49.4'LT.

90°, 5'RAD. HUB
STA. 69+81.0, 49.4'LT.

REMOVE & ALTER TOP NORTH DUCT

REMOVE & ALTER TOP NORTH DUCT

DETAIL

REMOVE 11' OF CONCRETE ENCASED DUCT

N. 35TH ST.

28 29 30 31 32 33 34

N. 89°01'02"E.

N. 88°53'05"E.

32+63.5

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6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180° TO EACH OTHER.

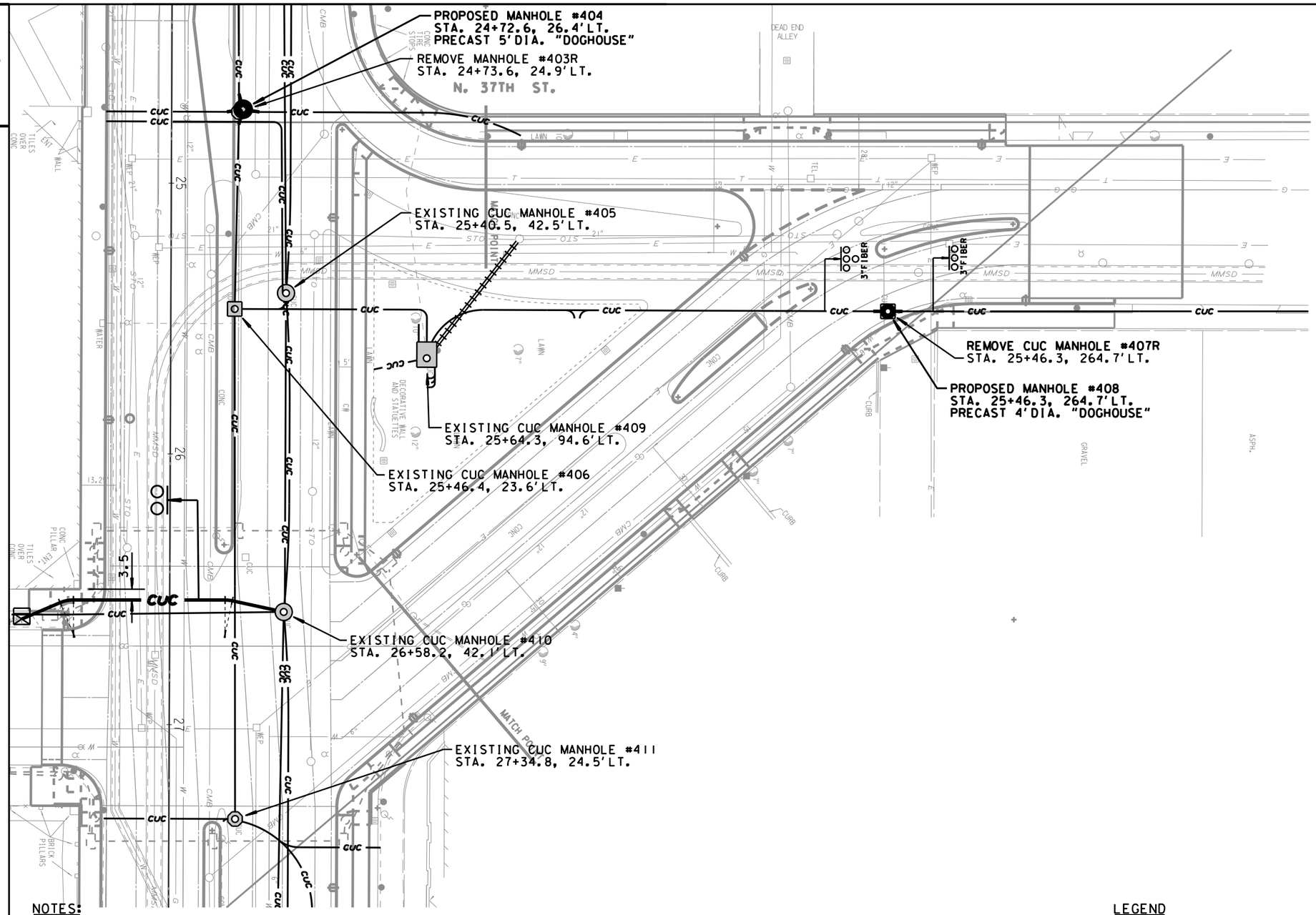
LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
◻	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 4 OF 17

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 199	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\28-34.DGN



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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
⊙	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 3 OF 17

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 200 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\37TH ST.DGN

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA. 105+63.50

199'-6-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED MANHOLE #417
STA. 107+49.1, 64.1'LT.
PRECAST 4'DIA. "DOGHOUSE"
RECONNECT DRAIN

REMOVE CUC MANHOLE #416R
STA. 107+49.1, 64.1'LT.

5°∠PT.
STA. 107+54.8, 49.8'LT.

5°∠PT.
STA. 107+11.0, 46.0'LT.

PROPOSED MANHOLE #419
STA. 107+62.7, 50.4'LT.
PRECAST 5'DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #418R
STA. 107+62.7, 50.9'LT.

5°∠PT.
STA. 107+70.7, 49.8'LT.

5°∠PT.
STA. 108+37.0, 44.0'LT.

EXISTING CUC MANHOLE #420
STA. 109+88.4, 48.1'LT.

477'-6-4"PVC CONDUIT
CEMENT ENCASED

N. 34TH ST.

3"FIBER

46.0'

44.0'

105+63.50

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 5 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 201	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\105-111.DGN

2

PROPOSED MANHOLE #422
STA. 112+20.6, 64.2'LT.
PRECAST 4'DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #421R
STA. 112+20.6, 64.2'LT.

EXISTING CUC MANHOLE #423
STA. 112+25.3, 47.3'LT.

15'-2-4"PVC CONDUIT
CEMENT ENCASED

48'-1-4"PVC CONDUIT
CEMENT ENCASED
CONNECT TO TRAFFIC
CONTROLLER DUCT

11.25°, 12.5'RAD. HUB
STA. 112+42.1, 56.5'LT.

90°, 12.5'RAD. HUB
STA. 112+48.6, 56.5'LT.

40'-9-4"PVC CONDUIT
CEMENT ENCASED

5°∠PT.
STA. 112+90.4, 47.0'LT.

5°∠PT.
STA. 112+56.1, 44.0'LT.

7'-8-4"PVC CONDUIT
CEMENT ENCASED

5°∠PT.
STA. 113+75.0, 41.0'LT.

5°∠PT.
STA. 113+06.4, 47.0'LT.

REMOVE CUC MANHOLE #424R
STA. 112+98.4, 47.6'LT.

PROPOSED MANHOLE #425
STA. 112+98.4, 47.1'LT.
PRECAST 5'DIA. "DOGHOUSE"

68'-2-4"PVC CONDUIT
CEMENT ENCASED
CAP DUCTS

PROPOSED MANHOLE #427
STA. 115+54.3, 64.3'LT.
PRECAST 4'DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #426R
STA. 115+54.3, 64.3'LT.

REMOVE CUC MANHOLE #428R
STA. 115+72.1, 50.9'LT.

PROPOSED MANHOLE #429
STA. 115+72.5, 50.6'LT.
PRECAST 5'DIA. "DOGHOUSE"

N. 32ND ST.

N. 31ST ST.

44.0'

41.0'

41.0'

111 +50 1/4 SEC LINE 112 +50 113 +50 114 +50 115 +50 116 +50 117

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
◻	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 6 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 202 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\111-117.DGN

2

447'-6-4"PVC CONDUIT
CEMENT ENCASED

13'-2-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED CUC MANHOLE #430
STA. 117+50.0, 41.0'LT
PRECAST 4'DIA.

EXISTING CUC MANHOLE #431
STA. 119+47.4, 58.8'LT.

291'-6-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #432
STA. 119+97.7, 51.7'LT.

51'-2-4"PVC CONDUIT
CEMENT ENCASED

11.25°,
12.5' RAD. HUB.
STA. 120+50.0,
53.5'LT.

90°, 5' RAD. HUB
STA. 121+68.0, 46.0'LT.

12'-2-4"PVC CONDUIT
CEMENT ENCASED
CAP DUCTS

EXISTING CUC MANHOLE #434
STA. 121+73.0, 51.5'LT.

11'-2-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED MANHOLE #436
STA. 121+96.6, 64.1'LT.
PRECAST 4'DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #435R
STA. 121+96.6, 64.1'LT.

60'-2-4"PVC CONDUIT
CEMENT ENCASED

60'-2-4"PVC CONDUIT
CEMENT ENCASED
CAP DUCTS

89'-8-4"PVC CONDUIT
CEMENT ENCASED

25'-8-4"PVC CONDUIT
CEMENT ENCASED

PROPOSED CUC MANHOLE #433
STA. 121+41.0, 41.0'LT
PRECAST 4'DIA.

N. 30TH ST.

N. 29TH ST.

TRIPOLI SHRINE
#3000

#2848

#2905
APTS.

388-2016
70.55

388-2008
80

41.0'

41.0'

117 +50 118 +50 119 +50 120 +50 121 +50 122 +50 123

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LEGEND

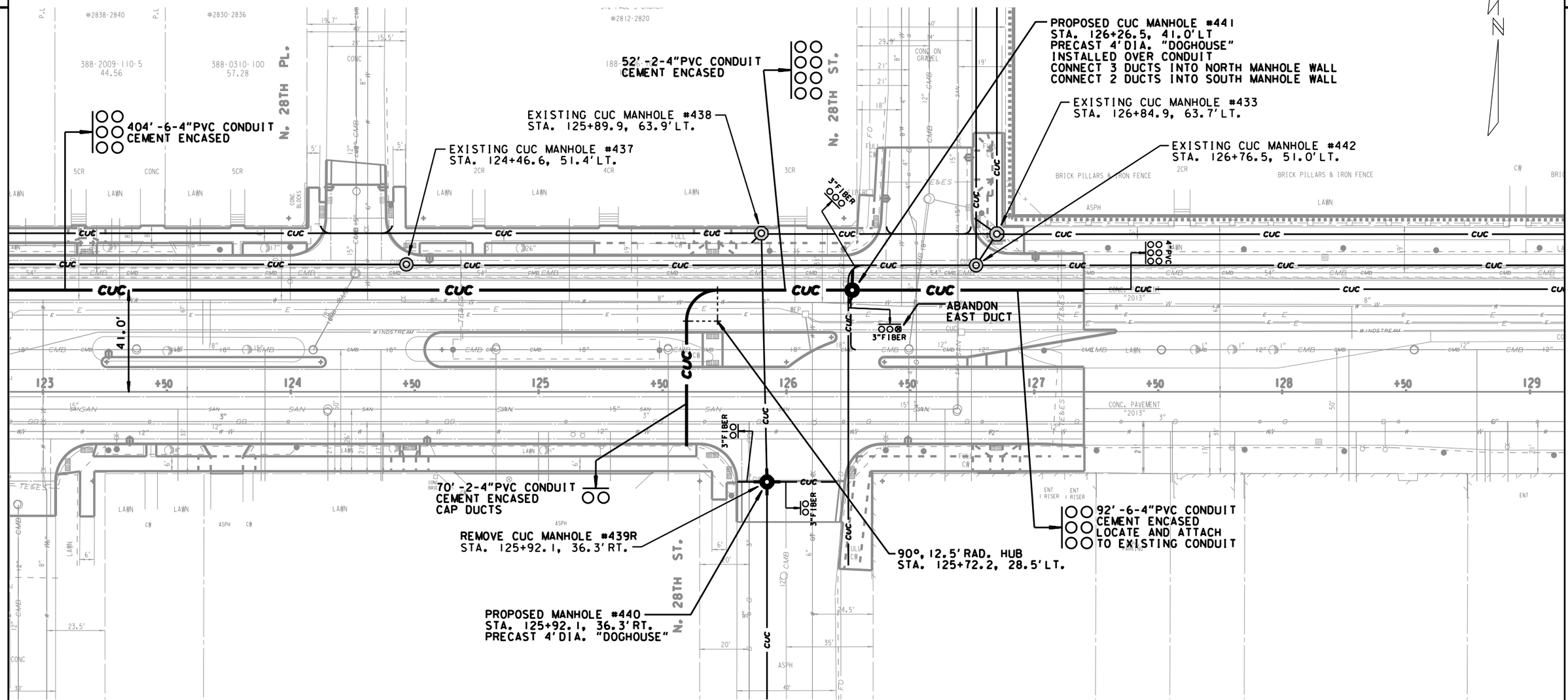
— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 7 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 203	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\117-123.DGN

2



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4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180 TO EACH OTHER.

LEGEND

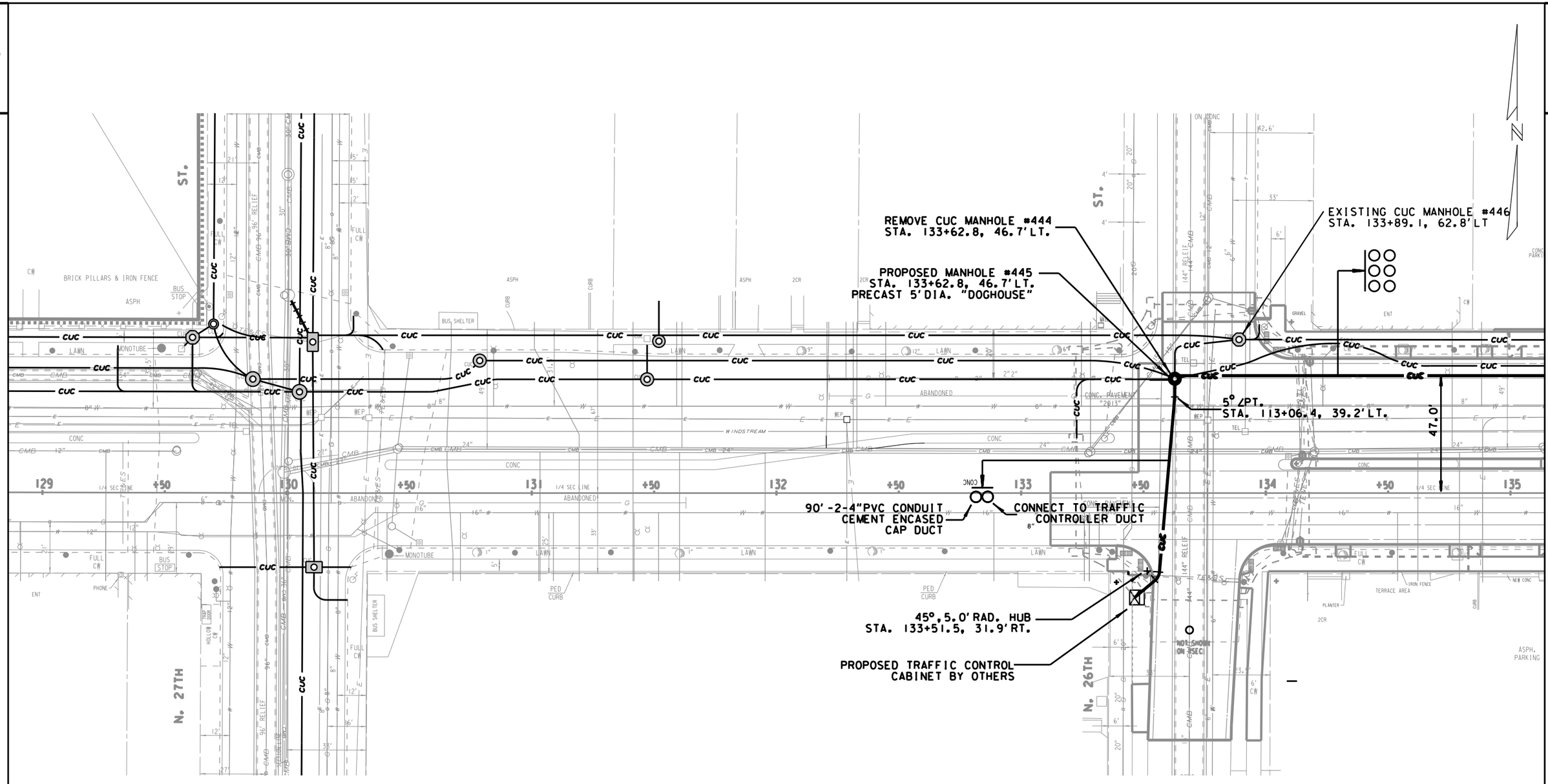
— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 8 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 204	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\123-129.DGN

2



NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
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5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180 TO EACH OTHER.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 9 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 205	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\129-135.DGN

EXISTING CUC MANHOLE #448
STA. 137+42.6, 62.3'LT.

362'-6-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #447
STA. 137+28.8, 49.1'LT.

90°, 5'RAD. HUB
STA. 137+53.5, 52.0'LT.

41'-2-4"PVC CONDUIT
CEMENT ENCASED TO
STA 137+58.5, 86.0 LT
FOR FUTURE TRAFFIC CABINET
CAP DUCTS

500'-6-4"PVC CONDUIT
CEMENT ENCASED

22'-8-4"PVC CONDUIT
CEMENT ENCASED

N. 25TH ST.

47.0'

47.0'

NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
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5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180 TO EACH OTHER.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
◻	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 10 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 206	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\135-141.DGN

2

EXISTING CUC MANHOLE #450
STA. 142+92.5, 61.9'LT.

11.25°, 4.0' RAD. HUB
STA. 142+64.1, 52.9'LT.

PROPOSED 5'DIA. CUC MANHOLE #449
STA. 142+55.5, 50.0'LT.

90°, 5.0' RAD. HUB
STA. 142+59.0, 45.0'LT.

47.0'

102'-2-4"PVC CONDUIT
CEMENT ENCASED

CAP
DUCT

CONNECT TO TRAFFIC
CONTROLLER DUCT

35'-2-4"PVC CONDUIT
CEMENT ENCASED

45°, 5.0' RAD. HUB
STA. 142+59.0, 44.1'RT.

PROPOSED TRAFFIC CONTROL
CABINET BY OTHERS

EXISTING CUC MANHOLE #451
STA. 142+92.0, 29.3'RT.

382'-6-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #452
STA. 146+41.2, 62.8'LT.

PROPOSED 5'DIA. CUC MANHOLE #453
STA. 146+41.2, 50.0'LT.

9'-2-4"PVC CONDUIT
CEMENT ENCASED

N. 24TH ST.

N. 23RD ST.

141 +50 142 +50 143 +50 144 +50 145 +50 146 +50 147

NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
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5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180 TO EACH OTHER.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
▣	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 11 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 207	E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\141-147.DGN

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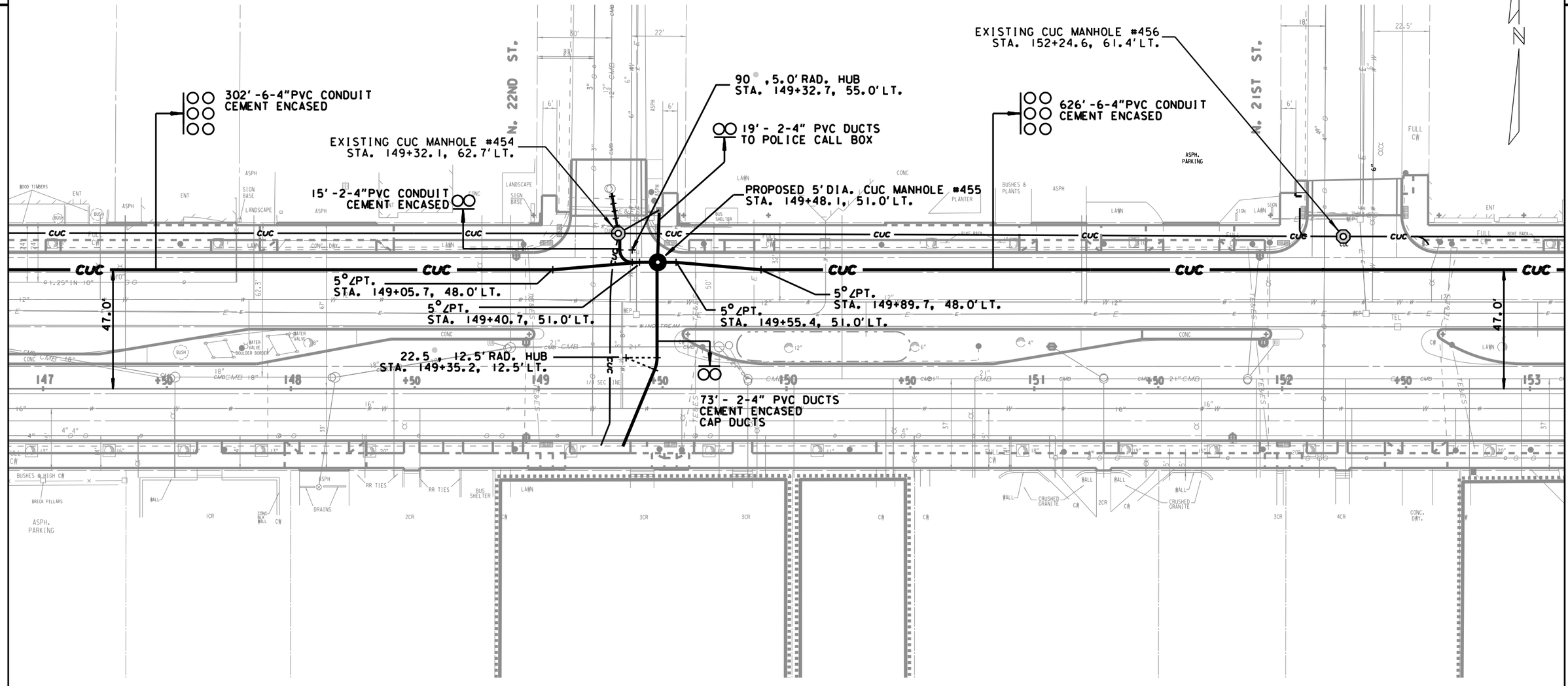

NOTES:

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6) CONDUIT ENTERING AND EXITING THE MANHOLE SHALL BE INSTALLED AT 180° TO EACH OTHER.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 12 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 208 E

FILENAME: W:\UGD\CONDUIT WORK FILES\UCONDUIT\2016\WISCONSIN 20-35\147-153.DGN

2

2

N

63'-8-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #459
STA. 156+49.8, 60.7'LT.

15'-2-4"PVC CONDUIT
CEMENT ENCASED

31'-6-4"PVC CONDUIT
CEMENT ENCASED
EXTEND TO CONCRETE
PAVING LIMITS
CAP ENDS

EXISTING CUC MANHOLE #457
STA. 154+68.4, 61.2'LT.

PROPOSED 5'DIA. CUC MANHOLE #458
STA. 155+78.3, 50.2'LT.

5°∠PT.
STA. 155+85.8, 47.0'LT.

5°∠PT.
STA. 155+70.9, 50.0'LT.

90°, 5' RAD HUB
STA. 156+44.0, 52.0 LT

5°∠PT.
STA. 156+11.6, 47.0'LT.

5°∠PT.
STA. 155+85.8, 50'LT.

72'-2-4"PVC CONDUIT
CEMENT ENCASED
CAP ENDS

47.0'

N. 20TH ST.

NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊡	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
- - - -	CONDUIT TO BE ABANDONED

SHEET 13 OF 17

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	CITY UG CONDUIT (CUC)	SCALE FEET 0' 40'	SHEET NO: 209	E

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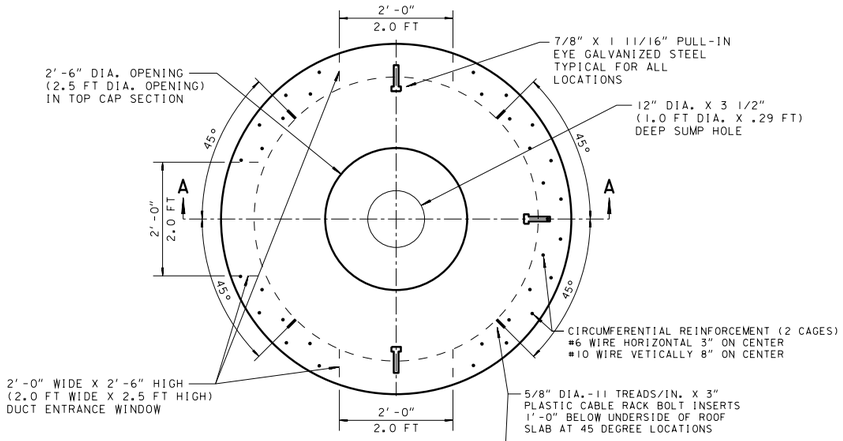
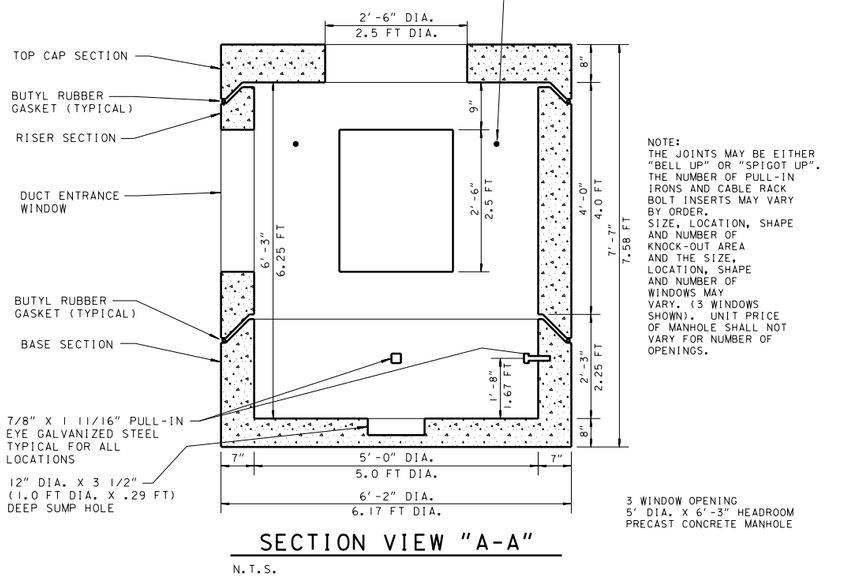


TOP VIEW



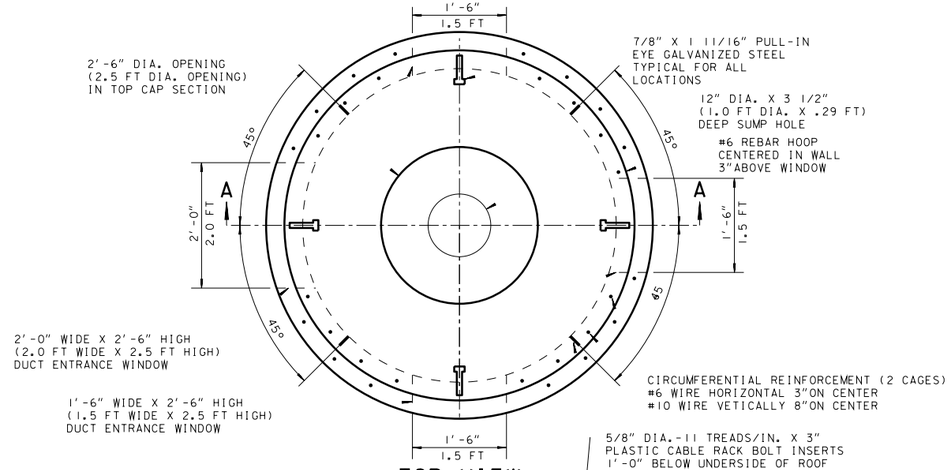
NOTE:
THE JOINTS MAY BE EITHER "BELL UP" OR "SPIGOT UP". THE NUMBER OF PULL-IN IRONS AND CABLE RACK BOLT INSERTS MAY VARY BY ORDER. SIZE, LOCATION, SHAPE AND NUMBER OF KNOCK-OUT AREA AND THE SIZE, LOCATION, SHAPE AND NUMBER OF WINDOWS MAY VARY. (3 WINDOWS SHOWN). UNIT PRICE OF MANHOLE SHALL NOT VARY FOR NUMBER OF OPENINGS.

3 WINDOW OPENING
5' DIA. X 6'-3" HEADROOM
PRECAST CONCRETE MANHOLE

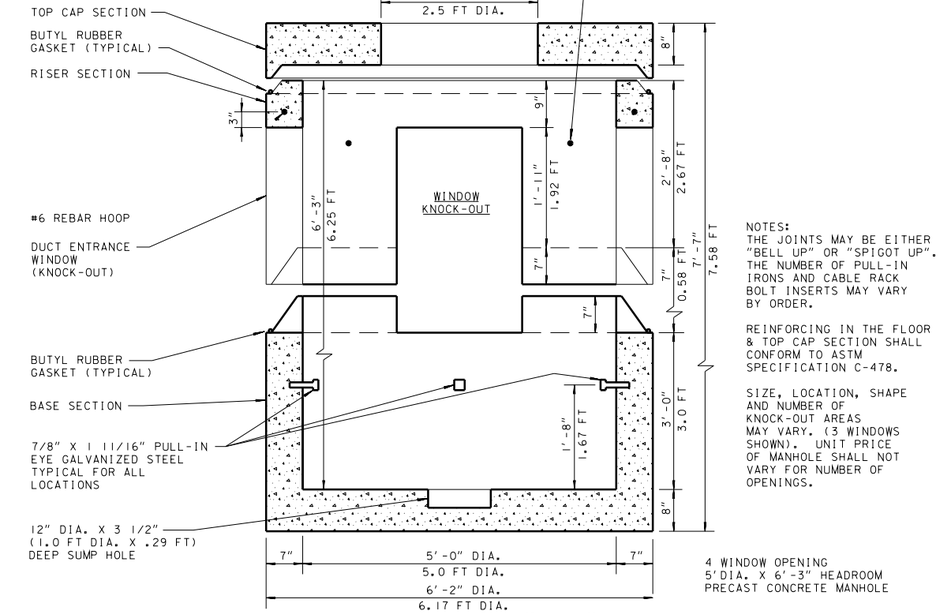
SECTION VIEW "A-A"

N.T.S.

5' DIAMETER TYPE CUC MANHOLE



TOP VIEW



NOTES:
THE JOINTS MAY BE EITHER "BELL UP" OR "SPIGOT UP". THE NUMBER OF PULL-IN IRONS AND CABLE RACK BOLT INSERTS MAY VARY BY ORDER.

REINFORCING IN THE FLOOR & TOP CAP SECTION SHALL CONFORM TO ASTM SPECIFICATION C-478.

SIZE, LOCATION, SHAPE AND NUMBER OF KNOCK-OUT AREAS MAY VARY. (3 WINDOWS SHOWN). UNIT PRICE OF MANHOLE SHALL NOT VARY FOR NUMBER OF OPENINGS.

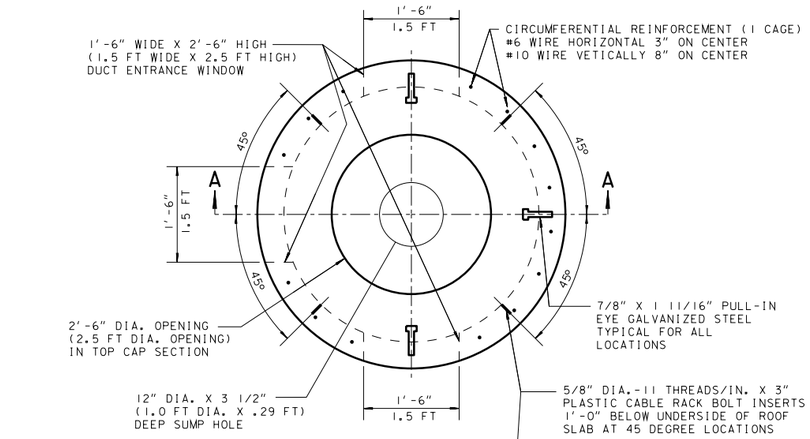
4 WINDOW OPENING
5'DIA. X 6'-3" HEADROOM
PRECAST CONCRETE MANHOLE

SECTION VIEW "A-A"

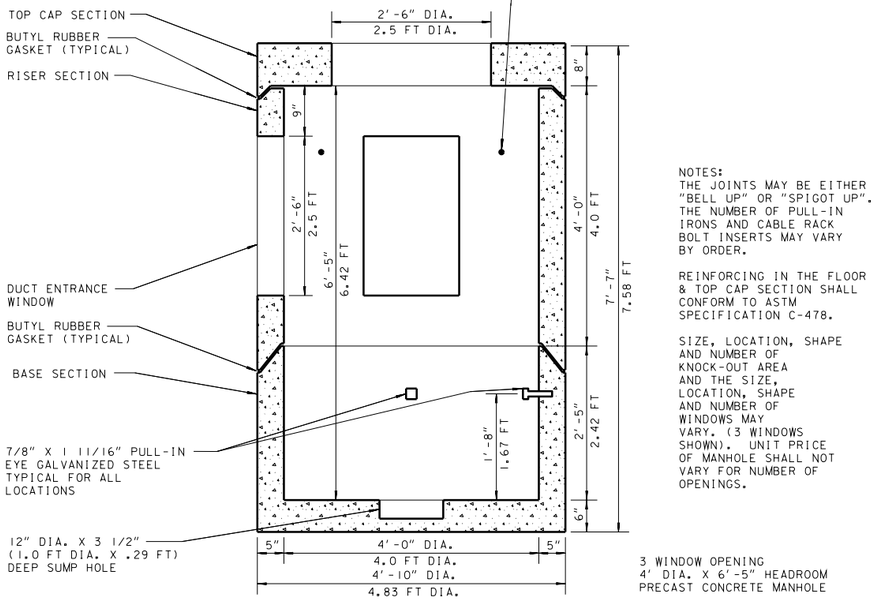
N.T.S.

5' DIAMETER "DOGHOUSE" TYPE CUC MANHOLE

STATE PROJECT NUMBER 2190-00-70 /2190-00-71	HWY: WISC. AVE/USH 18	COUNTY: MILWAUKEE	CITY UG CONDUIT DETAILS (CUC)	SCALE FEET	SHEET NO: 210	E



TOP VIEW



NOTES:
THE JOINTS MAY BE EITHER "BELL UP" OR "SPIGOT UP". THE NUMBER OF PULL-IN IRONS AND CABLE RACK BOLT INSERTS MAY VARY BY ORDER.

REINFORCING IN THE FLOOR & TOP CAP SECTION SHALL CONFORM TO ASTM SPECIFICATION C-478.

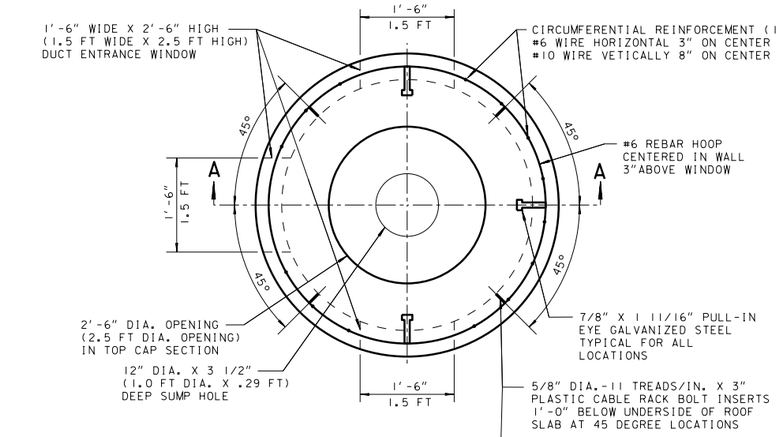
SIZE, LOCATION, SHAPE AND NUMBER OF KNOCK-OUT AREA AND THE SIZE, LOCATION, SHAPE AND NUMBER OF WINDOWS MAY VARY. (3 WINDOWS SHOWN). UNIT PRICE OF MANHOLE SHALL NOT VARY FOR NUMBER OF OPENINGS.

3 WINDOW OPENING
4' DIA. X 6'-5" HEADROOM
PRECAST CONCRETE MANHOLE

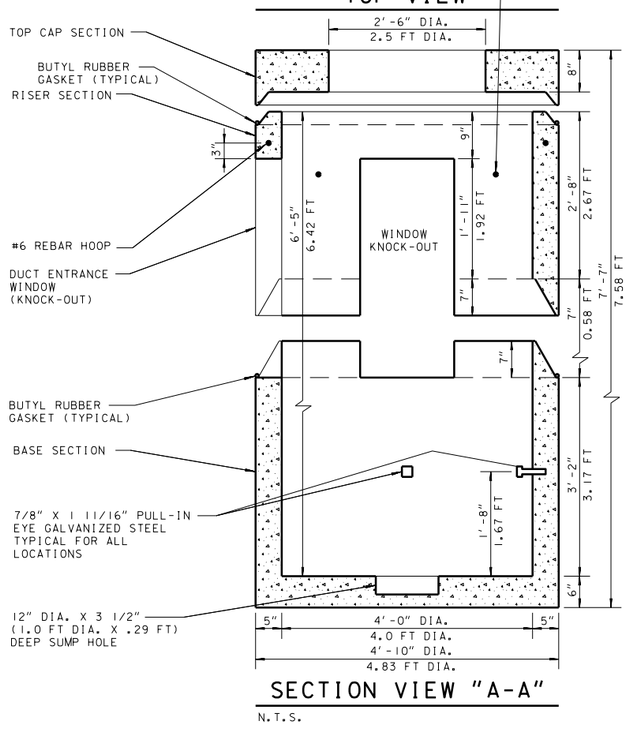
SECTION VIEW "A-A"

N.T.S.

4' DIAMETER TYPE CUC MANHOLE



TOP VIEW



NOTES:
THE JOINTS MAY BE EITHER "BELL UP" OR "SPIGOT UP". THE NUMBER OF PULL-IN IRONS AND CABLE RACK BOLT INSERTS MAY VARY BY ORDER.

REINFORCING IN THE FLOOR & TOP CAP SECTION SHALL CONFORM TO ASTM SPECIFICATION C-478.

SIZE, LOCATION, SHAPE AND NUMBER OF KNOCK-OUT AREAS MAY VARY. (3 WINDOWS SHOWN). UNIT PRICE OF MANHOLE SHALL NOT VARY FOR NUMBER OF OPENINGS.

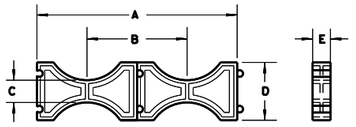
3 WINDOW OPENING
4' DIA. X 6'-5" HEADROOM
PRECAST CONCRETE MANHOLE

SECTION VIEW "A-A"

N.T.S.

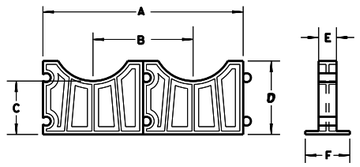
4' DIAMETER "DOGHOUSE" TYPE CUC MANHOLE

COND.	3"	4"
A	10"	11 ½"
B	5"	5 ⅝"
C	1 ½"	1 ¼"
D	3 ¼"	3 ¼"
E	1"	1"



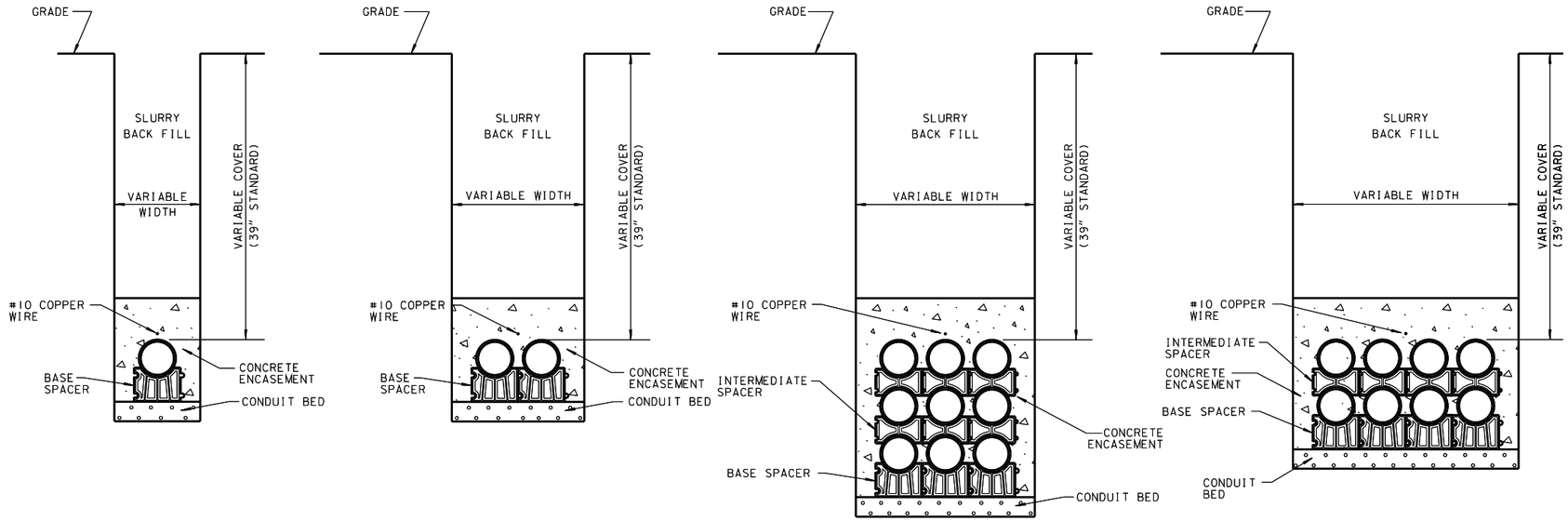
INTERMEDIATE SPACER

COND.	3"	4"
A	10"	11 ½"
B	5"	5 ⅝"
C	3"	3"
D	3 ⅛"	4 ⅛"
E	1"	1"
F	2 ½"	2 ½"

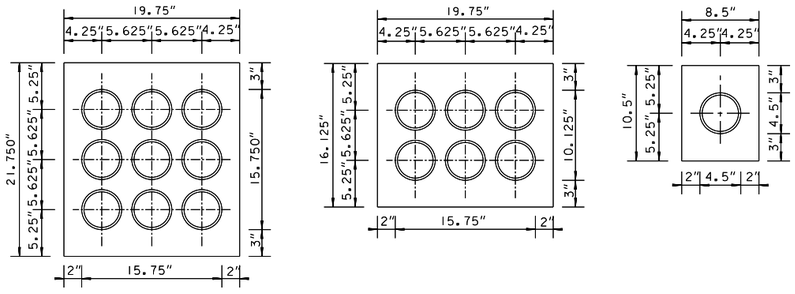


BASE SPACER

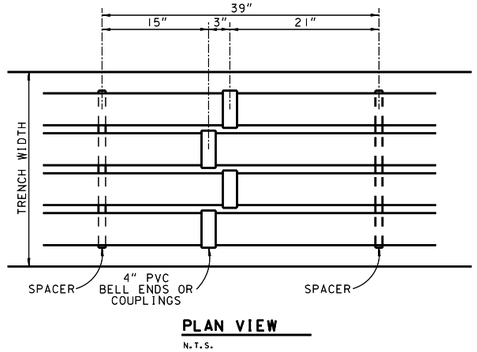
INTERMEDIATE AND BASE SPACER DETAIL



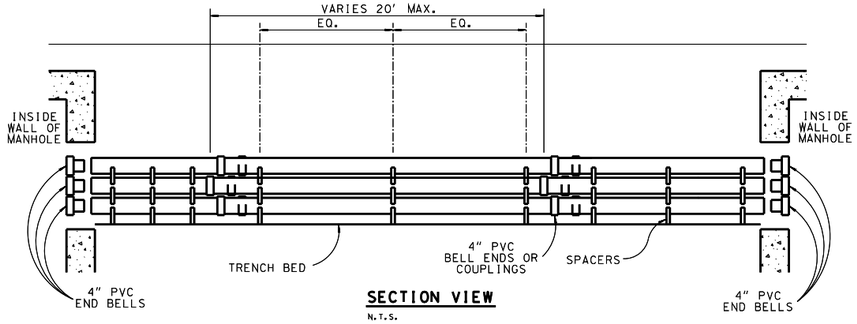
CROSS SECTION VIEW, TYP.
N.T.S.



CROSS SECTION VIEW
N.T.S.



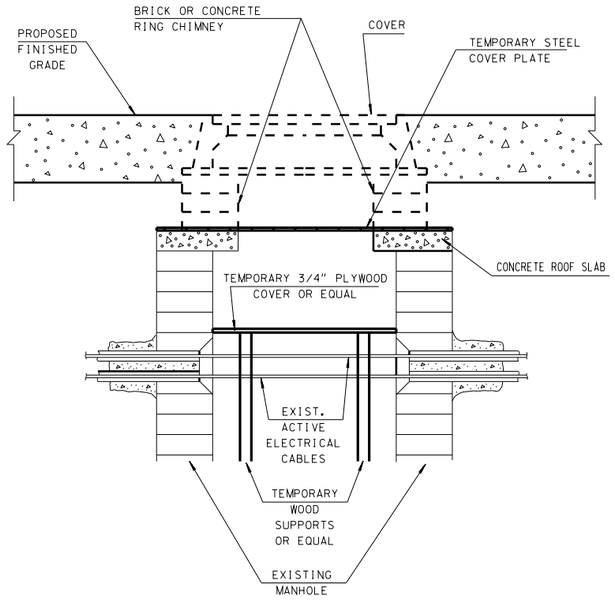
PLAN VIEW
N.T.S.



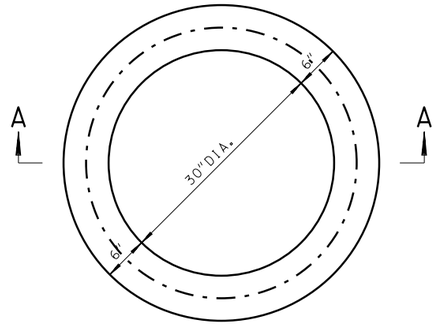
SECTION VIEW
N.T.S.

DUCT INSTALLATION DETAIL

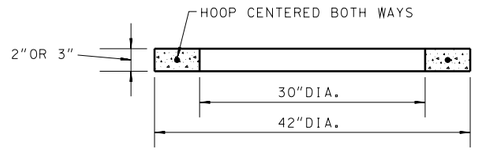
SHEET 16 OF 17



BLOCK OR PRECAST MANHOLE



PLAN



SECTION A-A

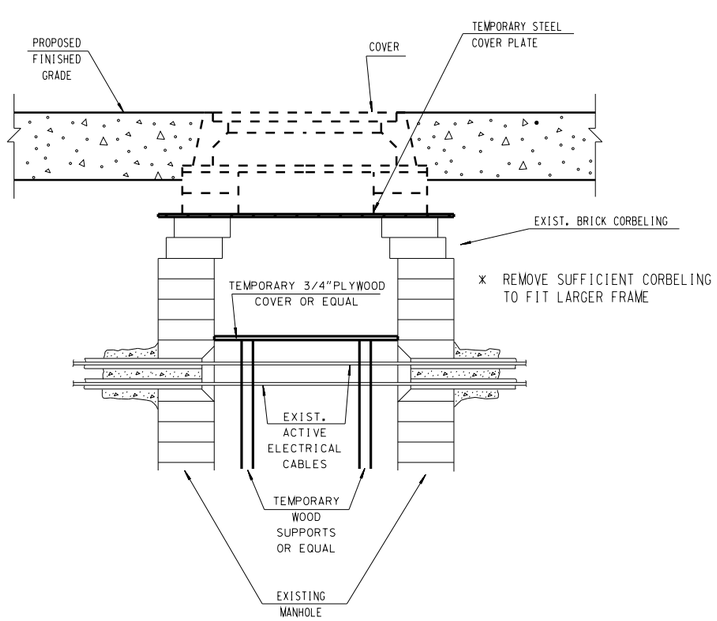
THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

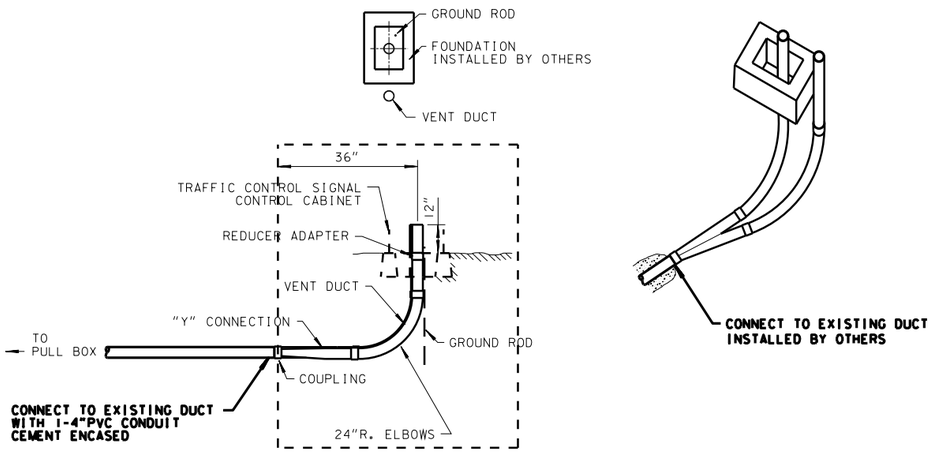
AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

CONCRETE ADJUSTING RING



BRICK ROUND MANHOLE



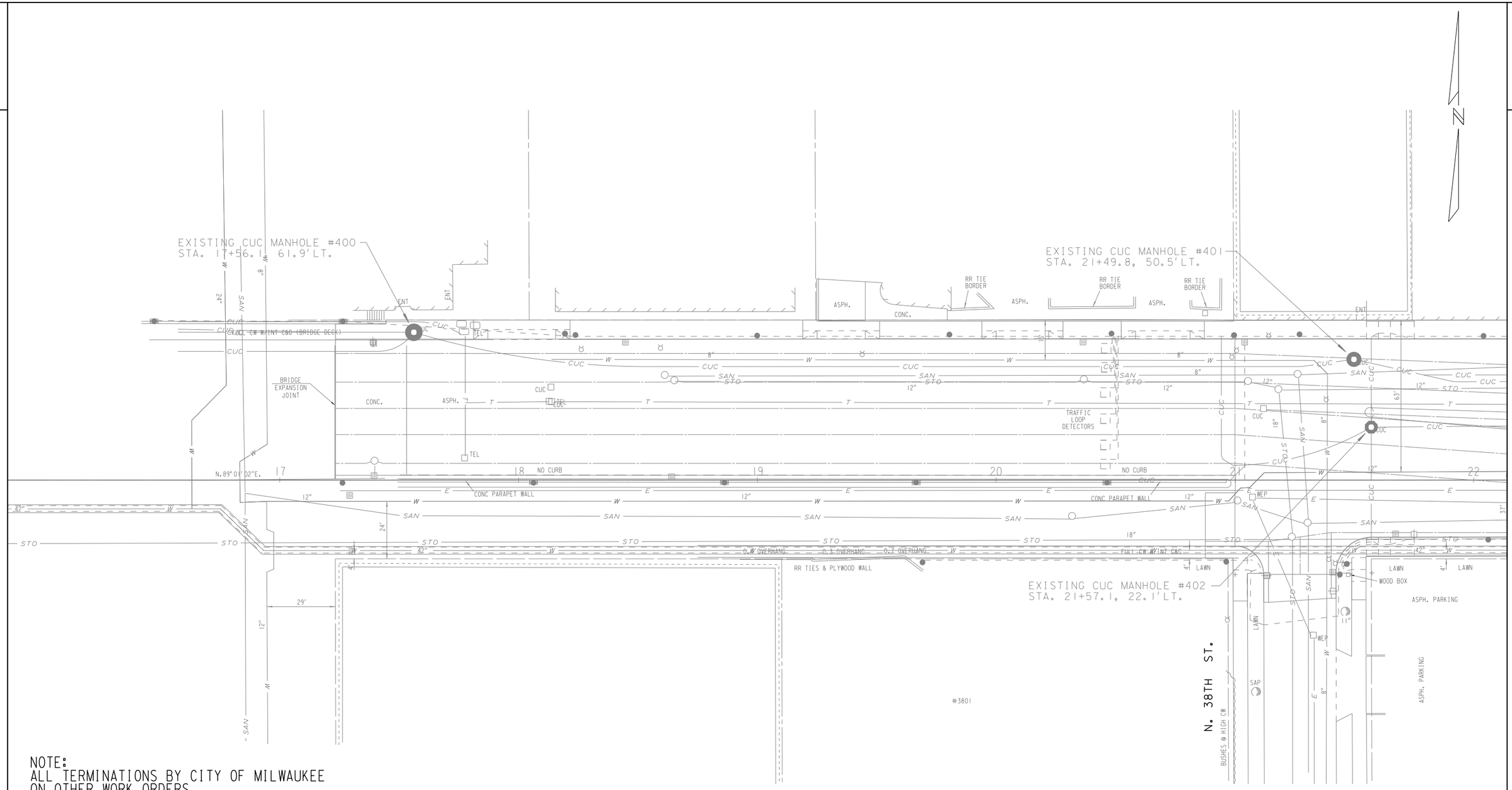
CONTROL CABINET

FOR REFERENCE ONLY

ADJUSTING CUC MANHOLES

STATE PROJECT NUMBER 2190-00-70 /2190-00-71	HWY: WISC. AVE/USH 18	COUNTY: MILWAUKEE	CITY UG CONDUIT DETAILS (CUC)	SCALE FEET	SHEET NO: 213	E

2



NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTES:

1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
4) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 1 OF 12

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 214 E

FILENAME: DGNFILENAME

2

N. 37TH ST.

N. 36TH ST.

N

EXISTING CUC MANHOLE #405
STA. 25+40.5, 42.5'LT.

PROPOSED MANHOLE #404
STA. 24+72.6, 26.4'LT.
PRECAST 5' DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #403R
STA. 24+73.6, 24.9'LT.

EXISTING CUC MANHOLE #409
STA. 25+64.3, 94.6'LT.

EXISTING CUC MANHOLE #410
STA. 26+58.2, 42.1'LT.

EXISTING CUC MANHOLE #411
STA. 27+34.8, 24.5'LT.

EXISTING CUC MANHOLE #406
STA. 25+46.4, 23.6'LT.

92'-2-4"PVC CONDUIT
CEMENT ENCASED

CAP DUCT

CONNECT TO TRAFFIC
CONTROLLER DUCT

PROPOSED TRAFFIC CONTROL
CABINET BY OTHERS

EXISTING
POLICE CALL BOX

DECORATIVE WALL
AND STATUETTES

MATCH POINT

BRICK
RET. WALL

FULL
CW

CONC
TIRE
STOPS

ASPH. PARKING

LAWN

WALL

TILES
OVER
CONC

CONC
PILLAR

BRICK
PILLARS

CONC BASE

10" MULCH 10"

MULCH

11.25°, 12.5'R. HUB
STA. 26+66.4, 20.5'LT.

22.5°, 12.5'R. HUB
STA. 26+66.6, 35.5'RT.

WATER

N.89°01'02"E.

1/4 SEC LINE

#3601 TO 3711
WISCONSIN KITCHEN MART

B.M. NW BOLT HYD
S/S W. WISCONSIN AVE. @ #3601
STA. 24+72 - 25'RT.
ELEV. 106.93

B.M. NW BOLT HYD SE CORNER
N. 36TH ST. & W. WISCONSIN AVE.
STA. 27+17 - 35'RT.
ELEV. 107.65

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTES:

1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
4) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.

LEGEND

— CUC — PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.

PROPOSED CUC MANHOLE

EXISTING CUC MANHOLE

—— CUC —— EXISTING CONDUIT

— — — — CONDUIT TO BE ABANDONED

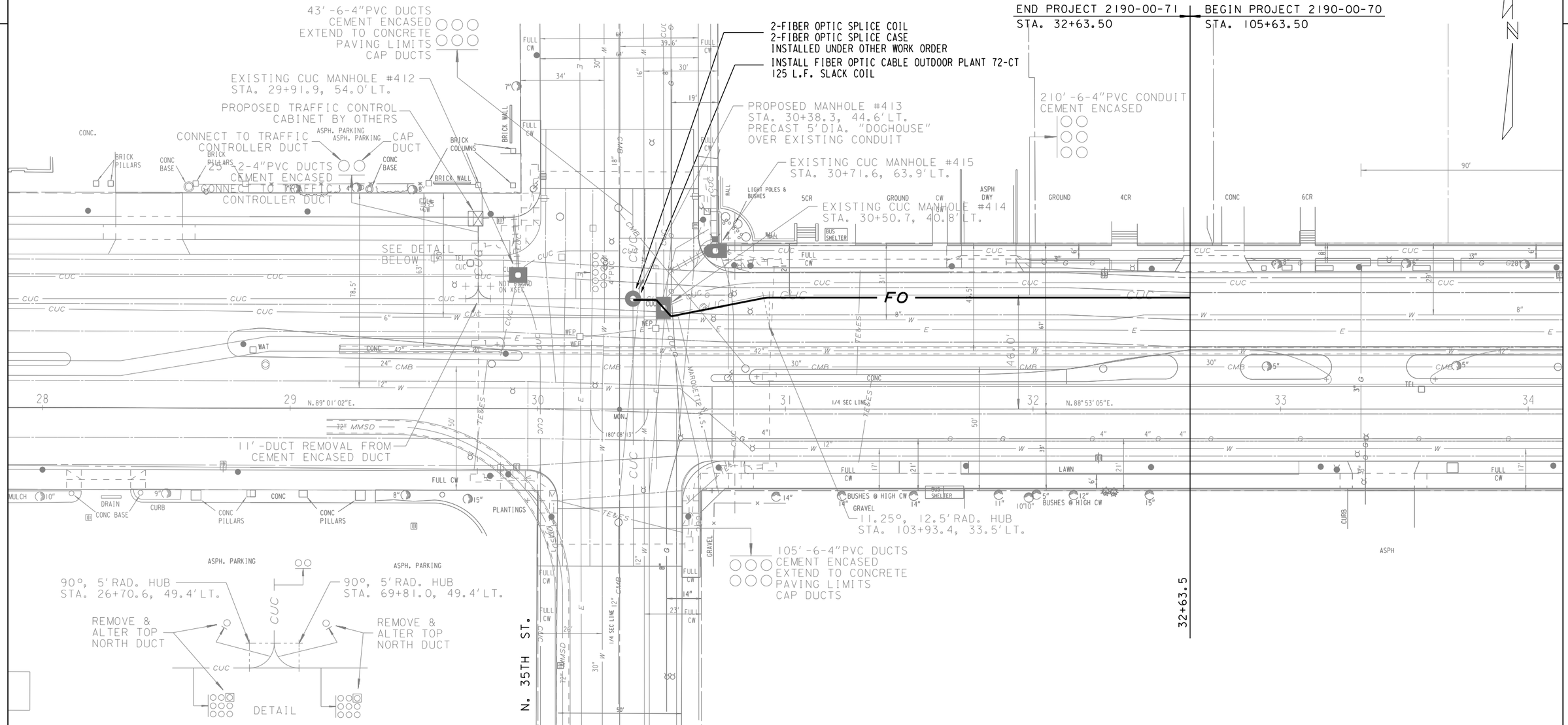
SHEET 2 OF 12

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40	SHEET NO: 215 E

FILENAME: DGNFILENAME

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———



NOTES:
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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 3 OF 12

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 216 E

FILENAME: DGNFILENAME

END PROJECT 2190-00-71
STA. 32+63.50

BEGIN PROJECT 2190-00-70
STA. 105+63.50

PROPOSED MANHOLE #417
STA. 107+49.1, 64.1'LT.
PRECAST 4'DIA. "DOGHOUSE"
RECONNECT DRAIN

199'-6-4"PVC CONDUIT
CEMENT ENCASED

REMOVE CUC MANHOLE #416R
STA. 107+49.1, 64.1'LT.

N. 34TH ST.

5°∠PT.
STA. 107+54.8, 49.8'LT.

5°∠PT.
STA. 107+11.0, 46.0'LT.

PROPOSED MANHOLE #419
STA. 107+62.7, 50.4'LT.
PRECAST 5'DIA. "DOGHOUSE"

REMOVE CUC MANHOLE #418R
STA. 107+62.7, 50.9'LT.

5°∠PT.
STA. 107+70.7, 49.8'LT.

5°∠PT.
STA. 108+37.6, 44.0'LT.

EXISTING CUC MANHOLE #420
STA. 109+88.4, 48.1'LT.

406'-6-4"PVC CONDUIT
CEMENT ENCASED

105+63.50

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTES:
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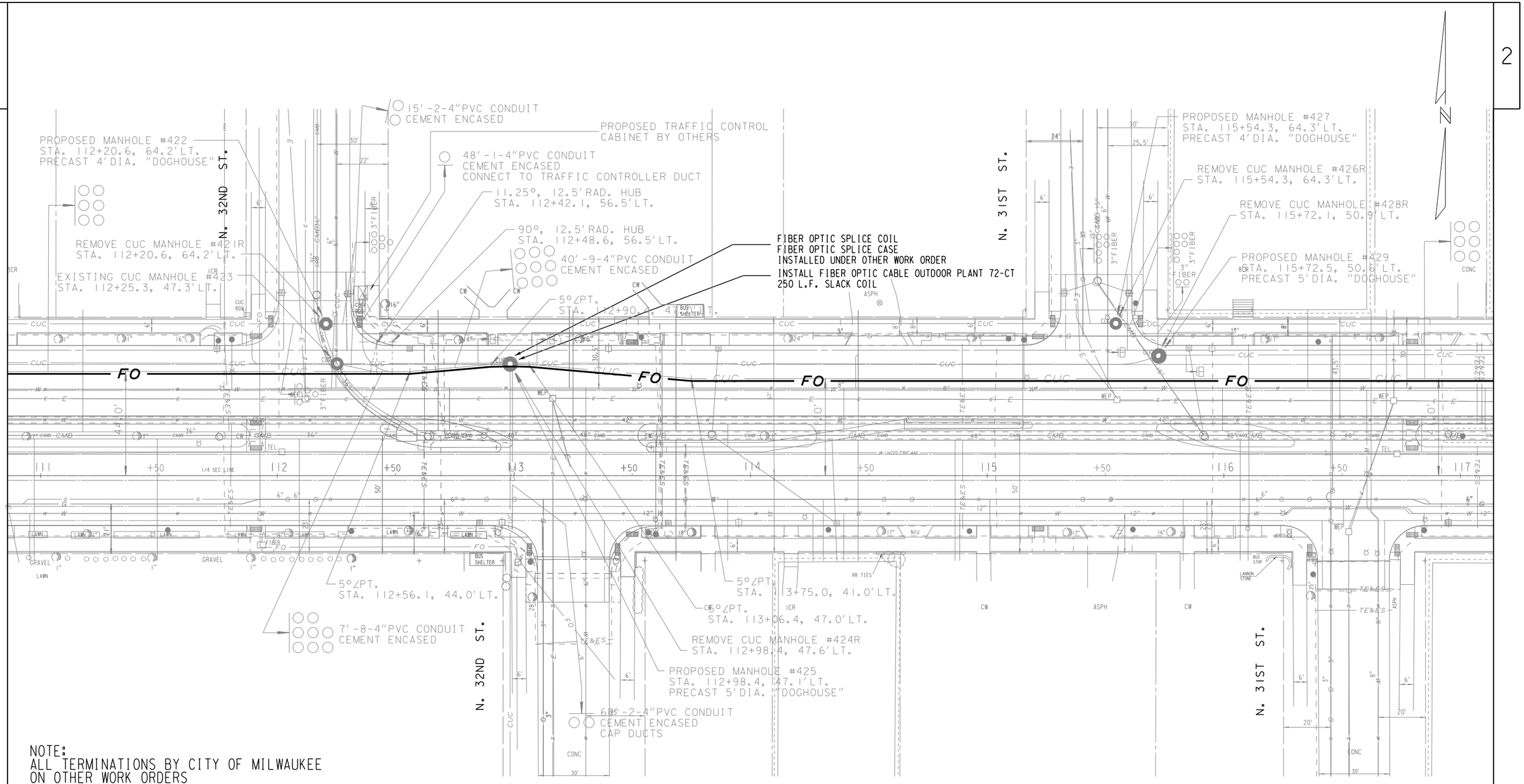
LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

2



NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— *FO* ———

NOTES:

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LEGEND

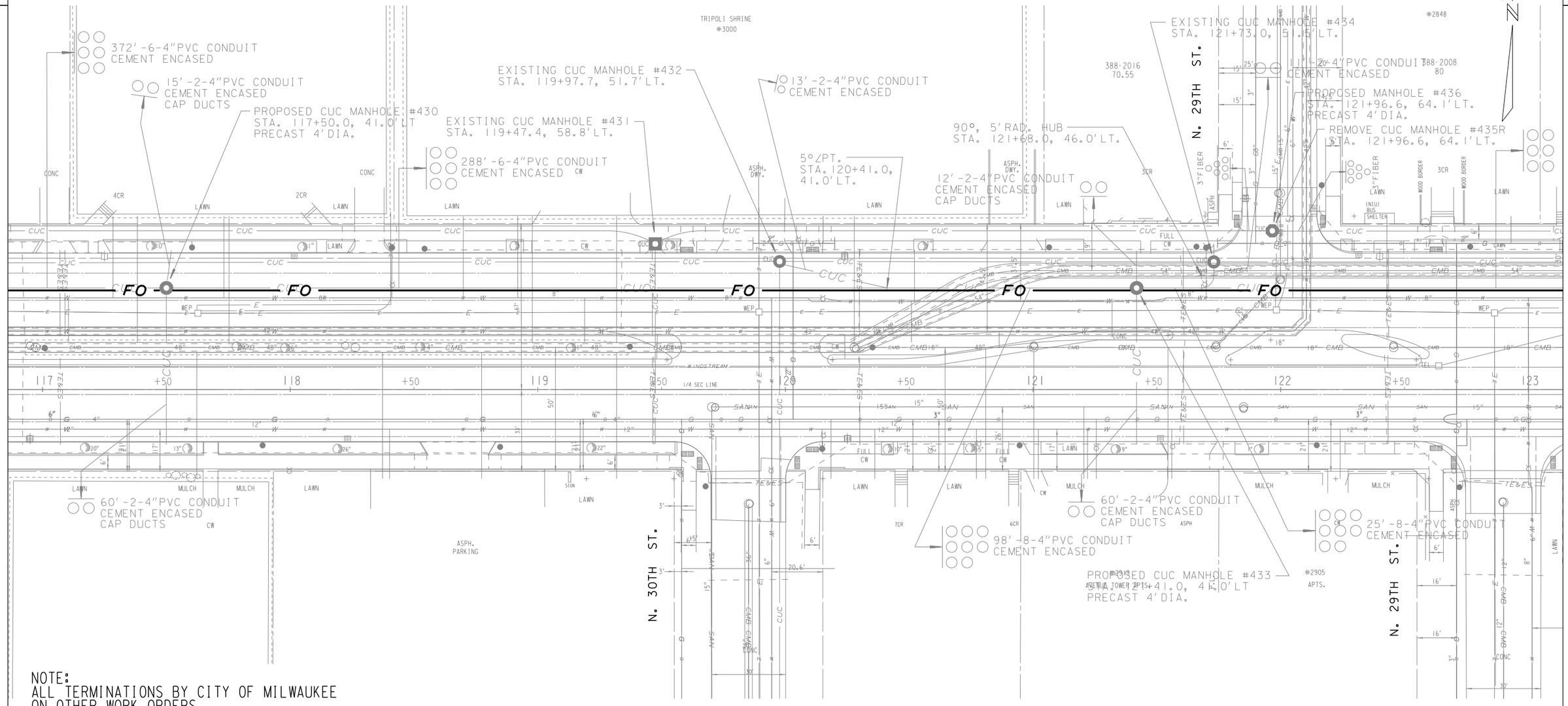
— *CUC* —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
○	PROPOSED CUC MANHOLE
■	EXISTING CUC MANHOLE
— *cuc* —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 5 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 218 E

FILENAME: DGNFILENAME

2



NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
○	PROPOSED CUC MANHOLE
■	EXISTING CUC MANHOLE
— cuc —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

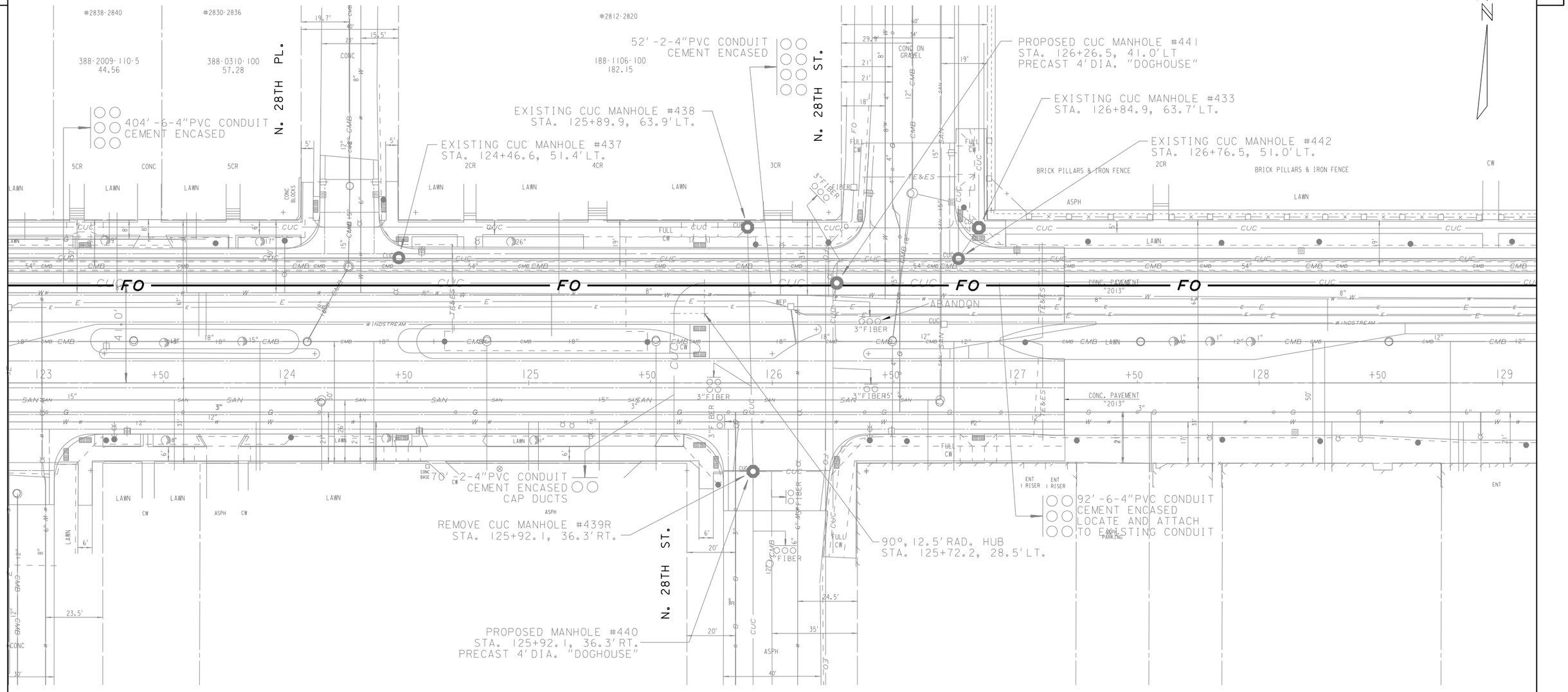
SHEET 6 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 219 E

FILENAME: DGNFILENAME

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———



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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
○	PROPOSED CUC MANHOLE
■	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 7 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 220 E

FILENAME: DGNFILENAME

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

FIBER OPTIC SPLICE COIL
FIBER OPTIC SPLICE CASE
INSTALLED UNDER OTHER WORK ORDER
INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT
250 L.F. SLACK COIL

2-FIBER OPTIC SPLICE COIL
2-FIBER OPTIC SPLICE CASE
INSTALLED UNDER OTHER WORK ORDER
INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT
250 L.F. SLACK COIL

REMOVE CUC MANHOLE #444R
STA. 133+62.8, 46.7'LT.

PROPOSED MANHOLE #445
STA. 133+62.8, 46.7'LT.
PRECAST 5'DIA. "DOGHOUSE"

EXISTING CUC MANHOLE #446
STA. 133+89.1, 62.8'LT

362'-4-4"PVC CONDUIT
CEMENT ENCASED

90°-2-4"PVC CONDUIT
CEMENT ENCASED
CONNECT TO TRAFFIC
CONTROLLER DUCT

CAP DUCT

45°, 5.0' RAD. HUB
STA. 133+52.9, 28.1'RT.

45°, 5.0' RAD. HUB
STA. 133+63.0, 39.9'RT.

PROPOSED TRAFFIC CONTROL
CABINET BY OTHERS

CONNECT TO TRAFFIC
CONTROLLER DUCT

ST.
N. 27TH
N. 26TH
BRICK PILLARS & IRON FENCE
BUS SHELTER
MONOTUBE
PHONE
ABANDONED
CONC. PAVEMENT "2013"
WINDSTREAM
TERRACE AREA
IRON FENCE
NEW CONC
ASPH. PARKING
NOT SHOWN ON XSEC
129
130
131
132
133
134
135
1/4 SEC LINE

NOTES:
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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
—— CUC ——	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 8 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 221

FILENAME: DGNFILENAME

INSTALLED ON OTHER WORK ORDER
F.O. CONNECTION FROM WISCONSIN & 24TH
TO FUTURE CONTROL CABINET

CAP DUCTS

33'-2-4"PVC CONDUIT
CEMENT ENCASED
END AT PAVING LIMIT

362'-4-4"PVC CONDUIT
CEMENT ENCASED

522'-4-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #448
STA. 137+42.6, 62.3'LT.

FUTURE CONTROL CABINET

EXISTING CUC MANHOLE #447
STA. 137+28.8, 49.1'LT.

45°, 5.0' RAD. HUB
STA. 136+55.1, 74.0'LT.

45°, 5.0' RAD. HUB
STA. 136+50.7, 70.0'LT.

N

ST.

N. 25TH

FO

ABANDONED

ASPH. PARKING

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
—— CUC ——	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 222 E

FILENAME: DGNFILENAME

2-FIBER OPTIC SPLICE COIL
2-FIBER OPTIC SPLICE CASE
INSTALLED UNDER OTHER WORK ORDER

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT
250 L.F. SLACK COIL

522'-4-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #450
STA. 142+92.5, 61.9'LT.

11.25°, 4.0' RAD. HUB
STA. 142+64.1, 52.9'LT.

PROPOSED 5'DIA. CUC MANHOLE #449
STA. 142+55.5, 50.0'LT.

11.25°, 4.0' RAD. HUB
STA. 142+46.8, 52.9'LT.

45°, 5.0' RAD. HUB
STA. 142+60.0, 37.9'LT.

35'-2-4"PVC CONDUIT
CEMENT ENCASED

CAP
DUCT

102'-2-4"PVC CONDUIT
CEMENT ENCASED
CONNECT TO TRAFFIC
CONTROLLER DUCT

45°, 5.0' RAD. HUB
STA. 142+59.0, 44.1'RT.

PROPOSED TRAFFIC CONTROL
CABINET BY OTHERS

EXISTING CUC MANHOLE #451
STA. 142+92.0, 29.3'RT.

382'-4-4"PVC CONDUIT
CEMENT ENCASED

EXISTING CUC MANHOLE #452
STA. 146+41.2, 62.8'LT.

PROPOSED 5'DIA. CUC MANHOLE #453
STA. 146+41.2, 50.0'LT.

11.25°, 4.0' RAD. HUB
STA. 146+32.6, 52.9'LT.

11.25°, 4.0' RAD. HUB
STA. 146+49.9, 52.9'LT.

2'-2-4"PVC CONDUIT
CEMENT ENCASED

N. 24TH ST.

N. 23RD ST.

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT —— FO ——

NOTES:
1) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
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LEGEND

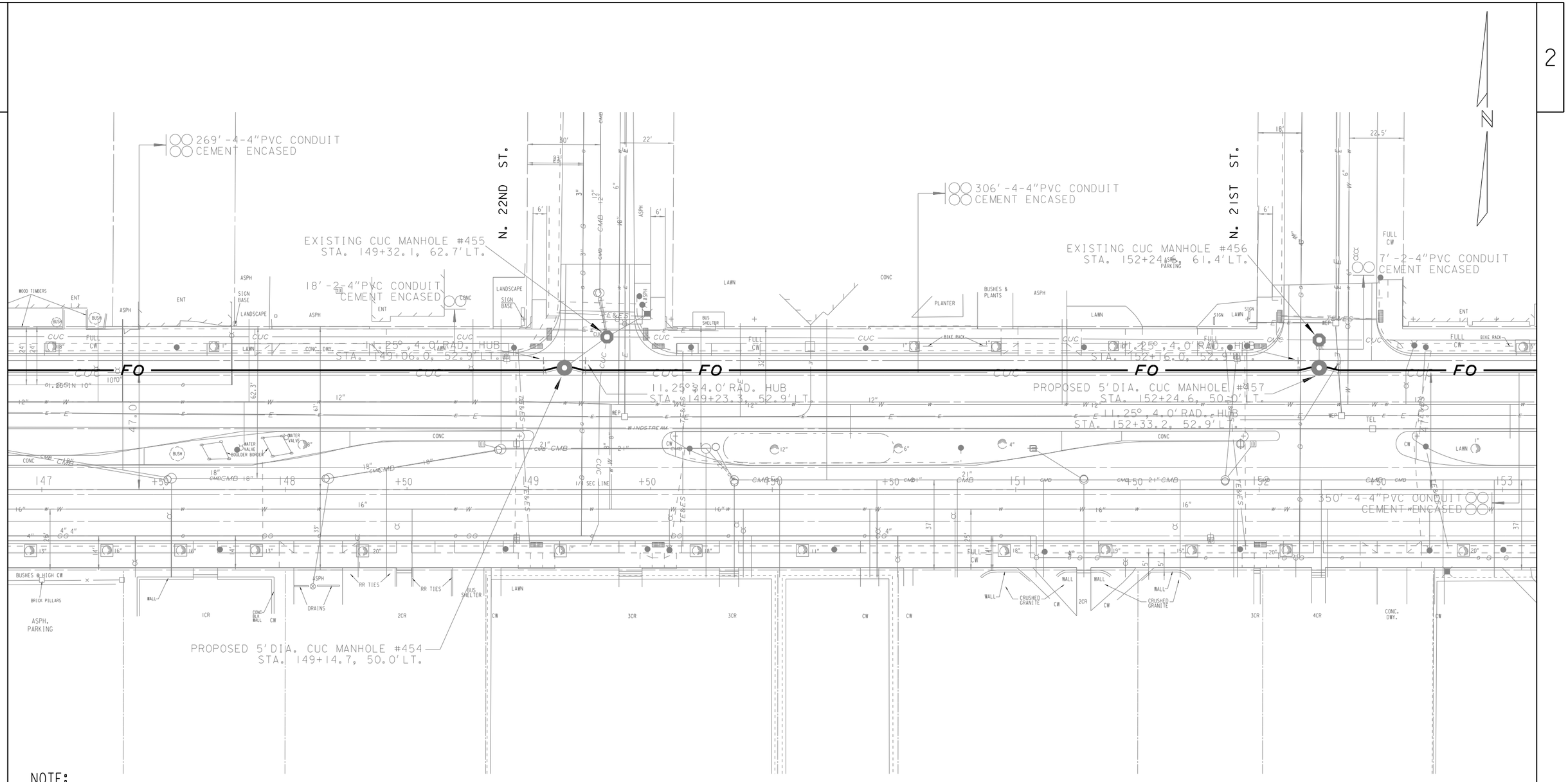
— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
—— cuc ——	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 10 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 223 E

FILENAME: DGNFILENAME

2



NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— *FO* ———

NOTES:

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LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
⊙	PROPOSED CUC MANHOLE
◘	EXISTING CUC MANHOLE
—— CUC ——	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 11 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 224 E

FILENAME: DGNFILENAME

2

FIBER OPTIC SPLICE COIL
FIBER OPTIC SPLICE CASE
INSTALLED UNDER OTHER WORK ORDER

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT
125 L.F. SLACK COIL

95'-4-4"PVC CONDUIT
CEMENT ENCASED
EXTEND TO CONCRETE
PAVING LIMITS
CAP ENDS

EXISTING CUC MANHOLE #458
STA. 154+68.4, 61.2'LT.

PROPOSED 5'DIA. CUC MANHOLE #459
STA. 155+78.3, 50.2'LT.

EXISTING CUC MANHOLE #460
STA. 156+49.8, 60.7'LT.

I-1.25°, 4.0'RAD. HUB
STA. 155+87.7, 52.9'LT.

I-1.25°, 4.0'RAD. HUB
STA. 155+87.9, 52.9'LT.

350'-4-4"PVC CONDUIT
CEMENT ENCASED

72'-2-4"PVC CONDUIT
CEMENT ENCASED
CAP ENDS

N. 20TH ST.

NOTE:
ALL TERMINATIONS BY CITY OF MILWAUKEE
ON OTHER WORK ORDERS

FIBER OPTIC CABLE OUTDOOR PLANT 72-CT ——— FO ———

NOTES:

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LEGEND

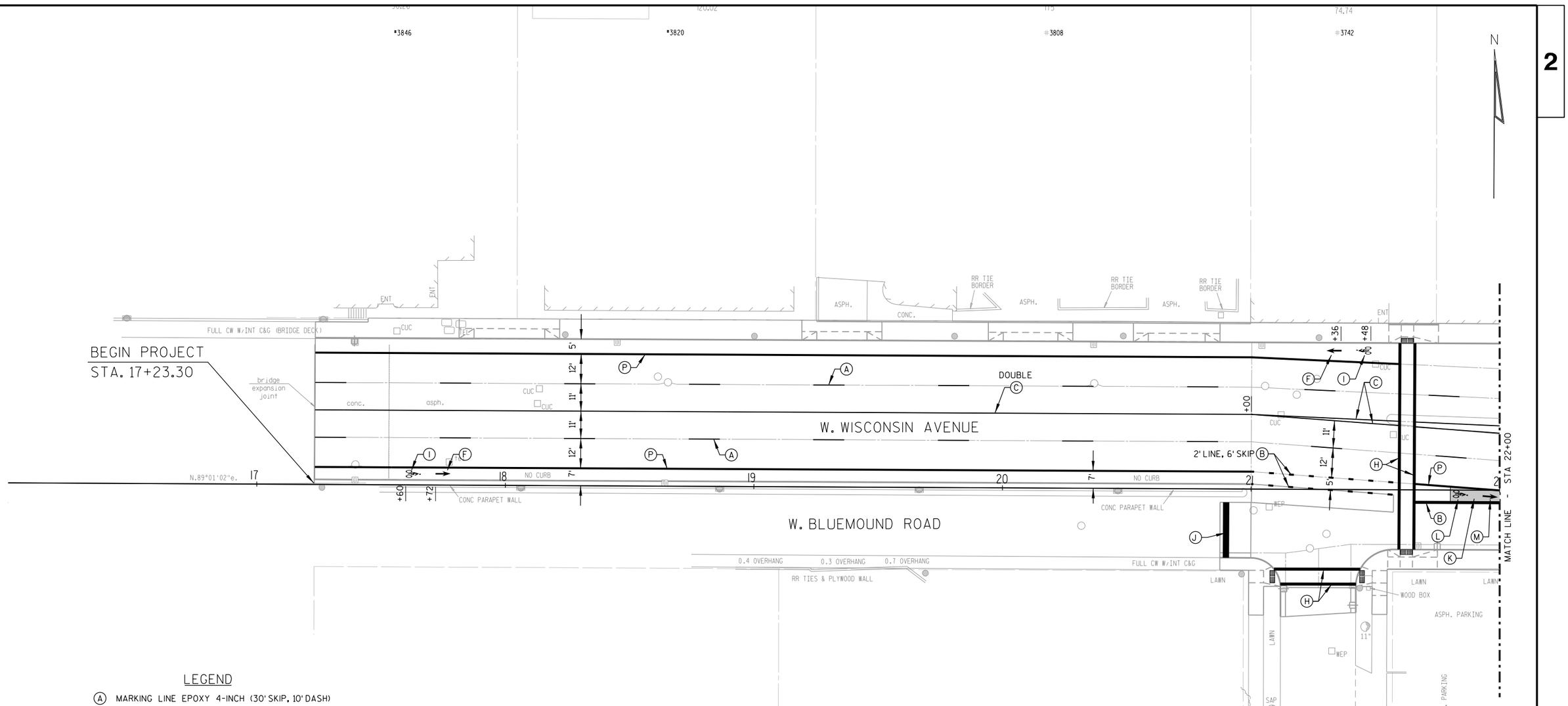
— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT, NUMBER OF RUNS AS NOTED.
	PROPOSED CUC MANHOLE
	EXISTING CUC MANHOLE
— CUC —	EXISTING CONDUIT
— — — —	CONDUIT TO BE ABANDONED

SHEET 12 OF 12

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT	SCALE FEET 0' 40'	SHEET NO: 225 E

FILENAME: DGNFILENAME

2

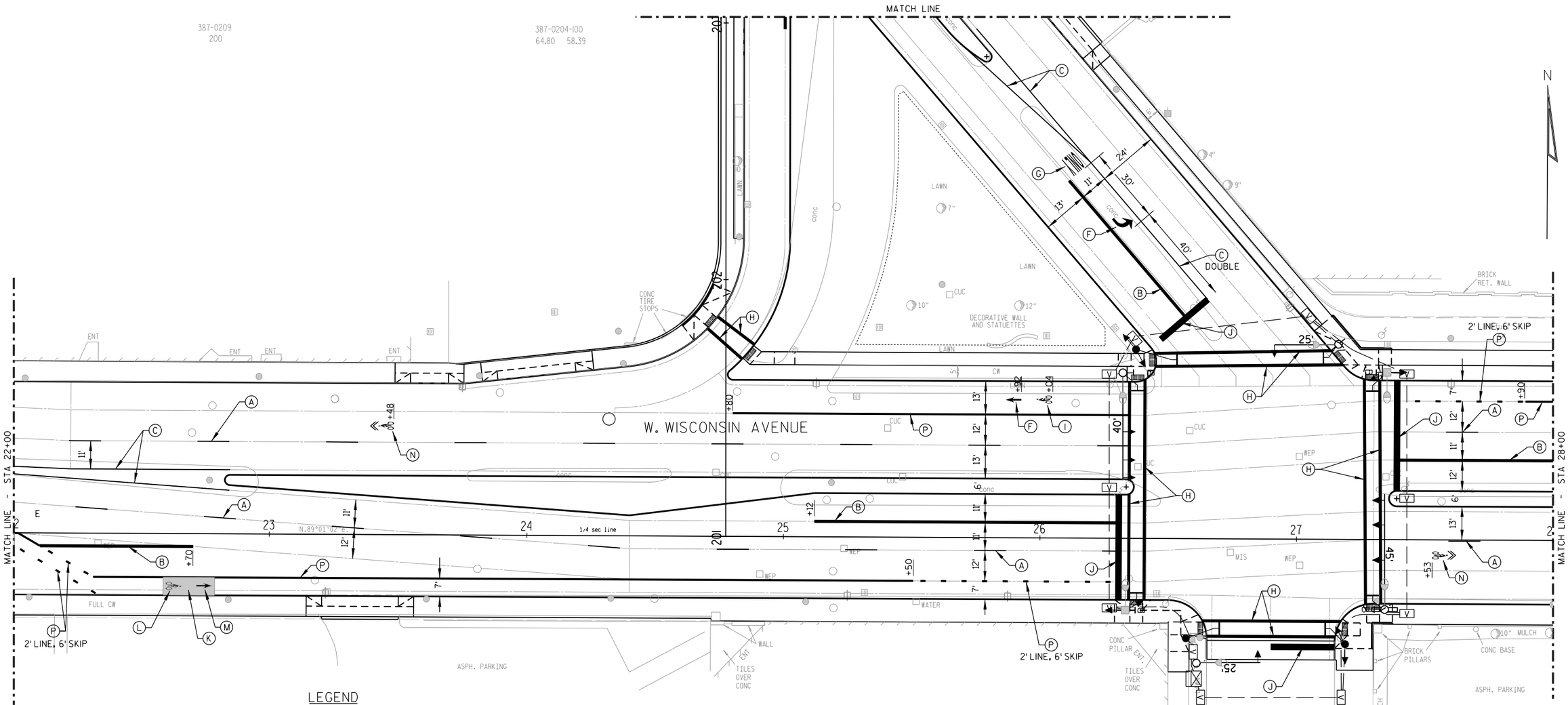


LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
- (D) MARKING LINE EPOXY 4-INCH, WHITE
- (E) MARKING DIAGONAL EPOXY 12-INCH
- (F) MARKING ARROW PREFORMED PLASTIC
- (G) MARKING WORD PREFORMED PLASTIC
- (H) MARKING CROSSWALK PREFORMED PLASTIC 8-INCH
- (I) MARKING SYMBOL PERFORMED PLASTIC
- (J) MARKING STOP LINE PREFORMED PLASTIC 24-INCH
- (K) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED BIKE LANE
- (L) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED SYMBOL
- (M) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED ARROW
- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 226	E

2



LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
- (D) MARKING LINE EPOXY 4-INCH, WHITE
- (E) MARKING DIAGONAL EPOXY 12-INCH
- (F) MARKING ARROW PREFORMED PLASTIC
- (G) MARKING WORD PREFORMED PLASTIC
- (H) MARKING CROSSWALK PREFORMED PLASTIC 8-INCH
- (I) MARKING SYMBOL PERFORMED PLASTIC
- (J) MARKING STOP LINE PREFORMED PLASTIC 24-INCH
- (K) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED BIKE LANE
- (L) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED SYMBOL
- (M) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED ARROW
- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

402-0102-100-8
165

402-9995-112-1
328

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 227	E

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
- (D) MARKING LINE EPOXY 4-INCH, WHITE
- (E) MARKING DIAGONAL EPOXY 12-INCH
- (F) MARKING ARROW PREFORMED PLASTIC
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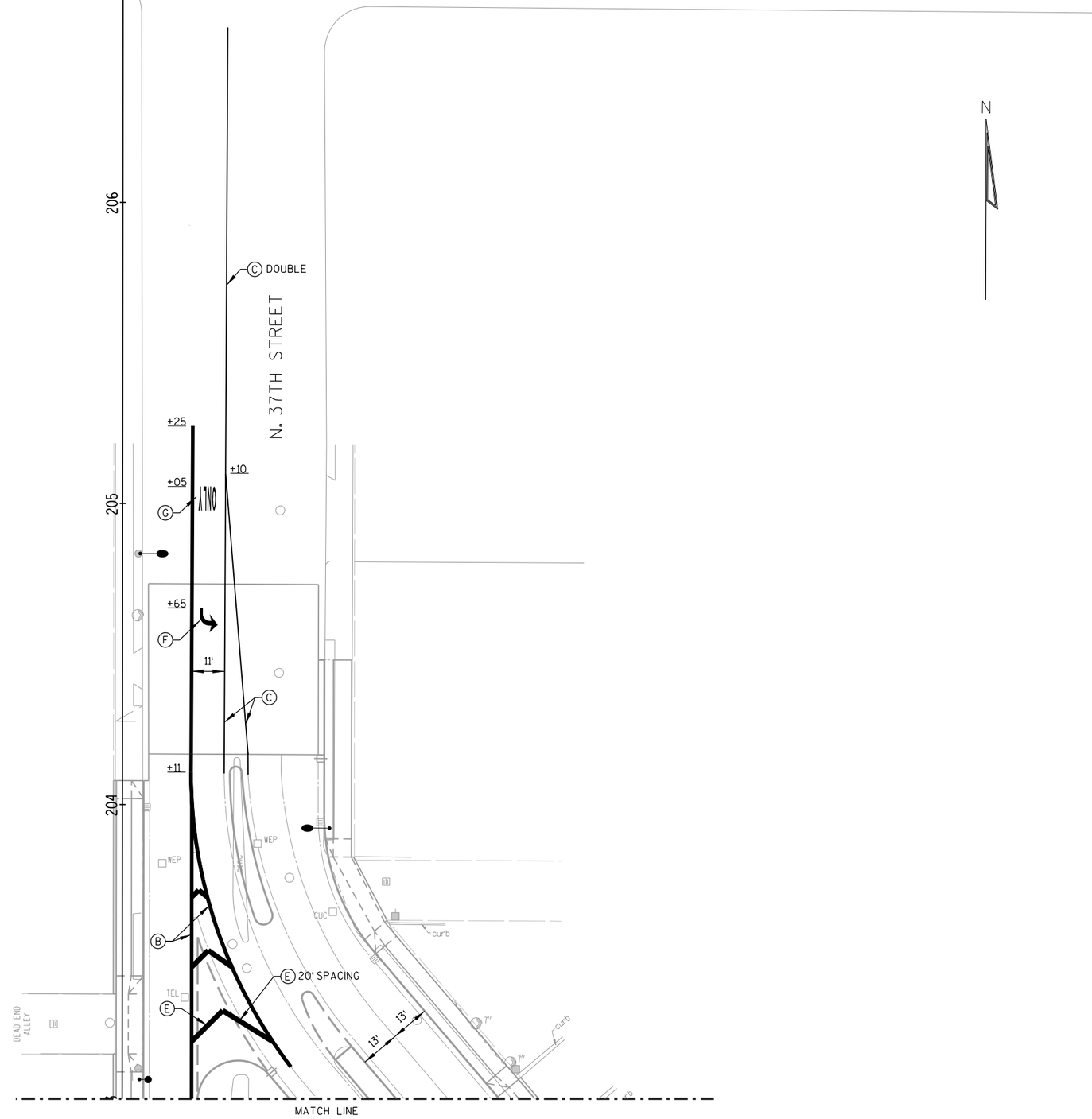
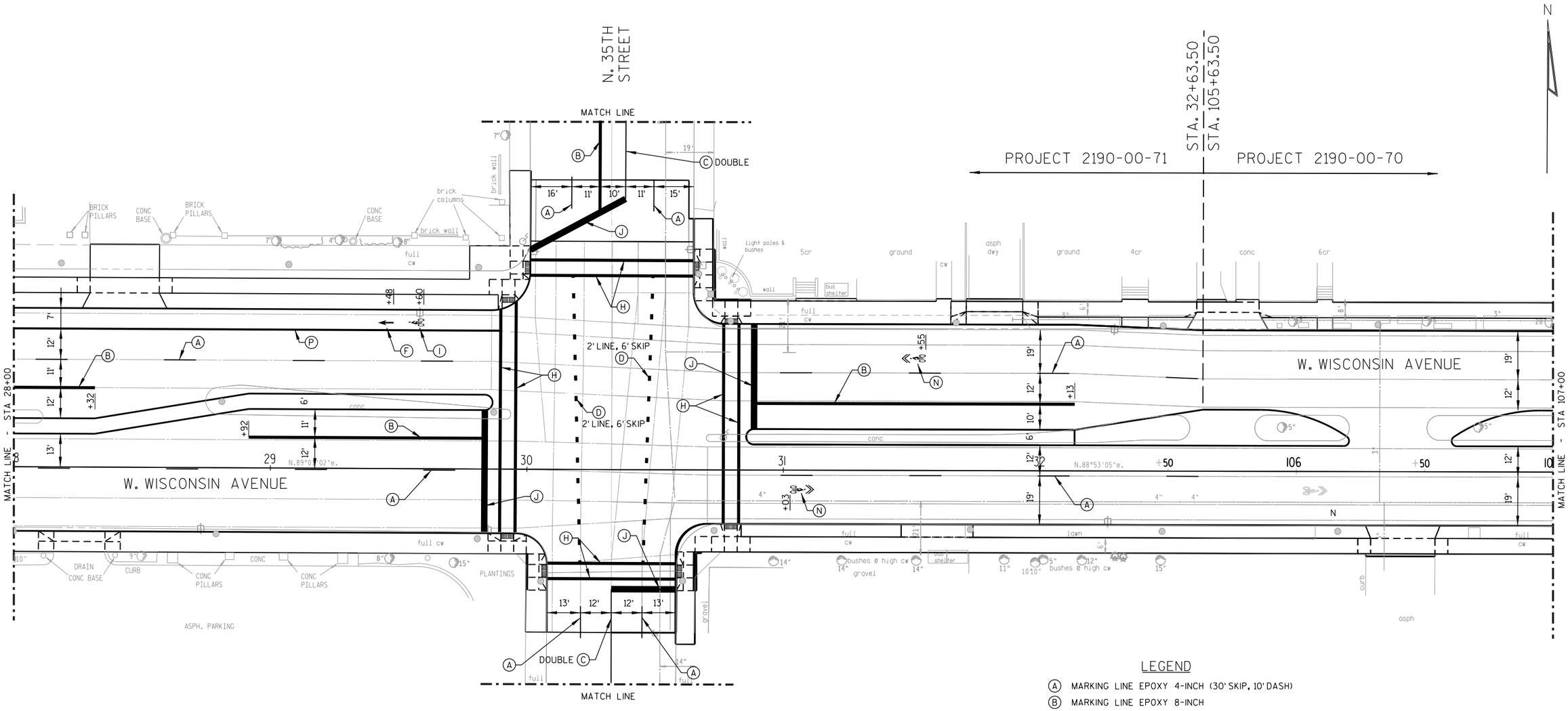
- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 228	E

2



LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
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- (E) MARKING DIAGONAL EPOXY 12-INCH
- (F) MARKING ARROW PREFORMED PLASTIC
- (G) MARKING WORD PREFORMED PLASTIC
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- (M) SKID RESISTANT GREEN PREFORMED THERMOPLASTIC INTEGRATED ARROW
- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

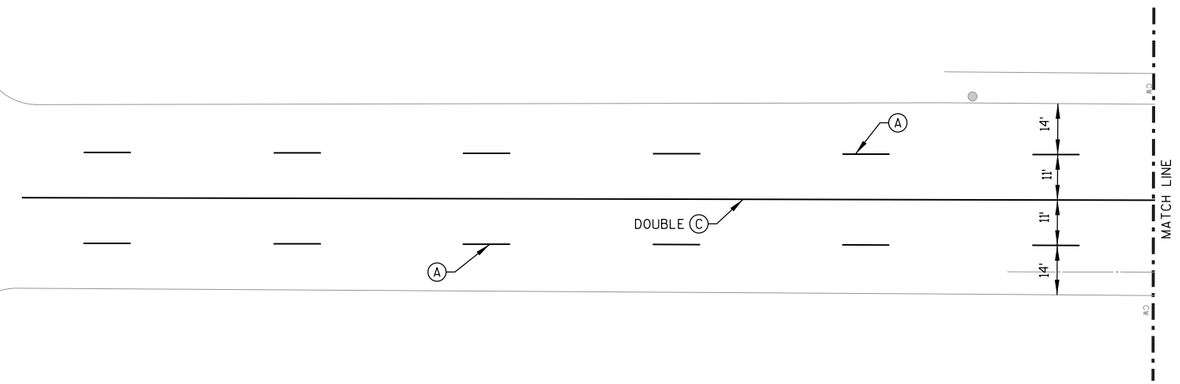
2

2

N

W. MICHIGAN STREET

N. 35TH STREET



LEGEND

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- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
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2

LEGEND

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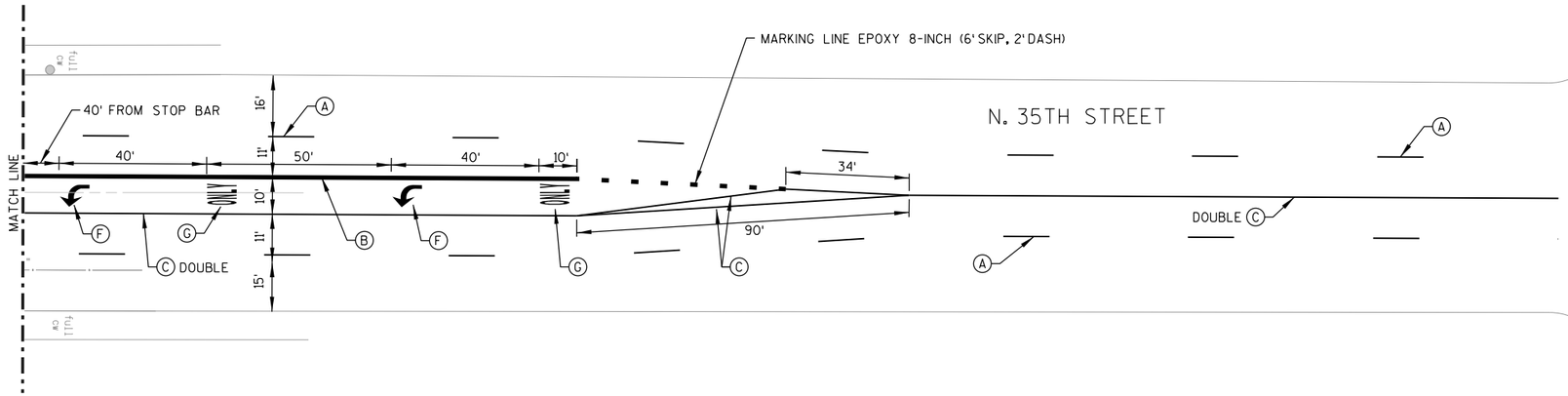
- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

N

W. WELLS STREET



2

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 231	E

2

N. 35TH STREET

STA. 32+63.50
STA. 105+63.50

PROJECT 2190-00-71 | PROJECT 2190-00-70

N

W. WISCONSIN AVENUE

MATCH LINE - STA 28+00

MATCH LINE - STA 107+00

28 | 29 | 30 | 31 | 32 +50 | 106 +50 | 10

BRICK PILLARS
CONC BASE
BRICK PILLARS
CONC BASE
brick columns
brick wall
brick wall
light poles & bushes
5cr
ground
cw
asph dwy
ground
4cr
conc
6cr
bus shelter
full cw
CUC
WEP
WAT
conc
TEL
19'
12'
12'
19'
+03
A
N

W. WISCONSIN AVENUE

full cw
DRAIN
CONC BASE
CURB
CONC PILLARS
CONC
CONC PILLARS
PLANTINGS
ASPH. PARKING
bushes @ high cw
gravel
bus shelter
lawn
curb
asph

N. 35TH STREET

402-9999-100
270

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
- (D) MARKING LINE EPOXY 4-INCH, WHITE
- (E) MARKING DIAGONAL EPOXY 12-INCH
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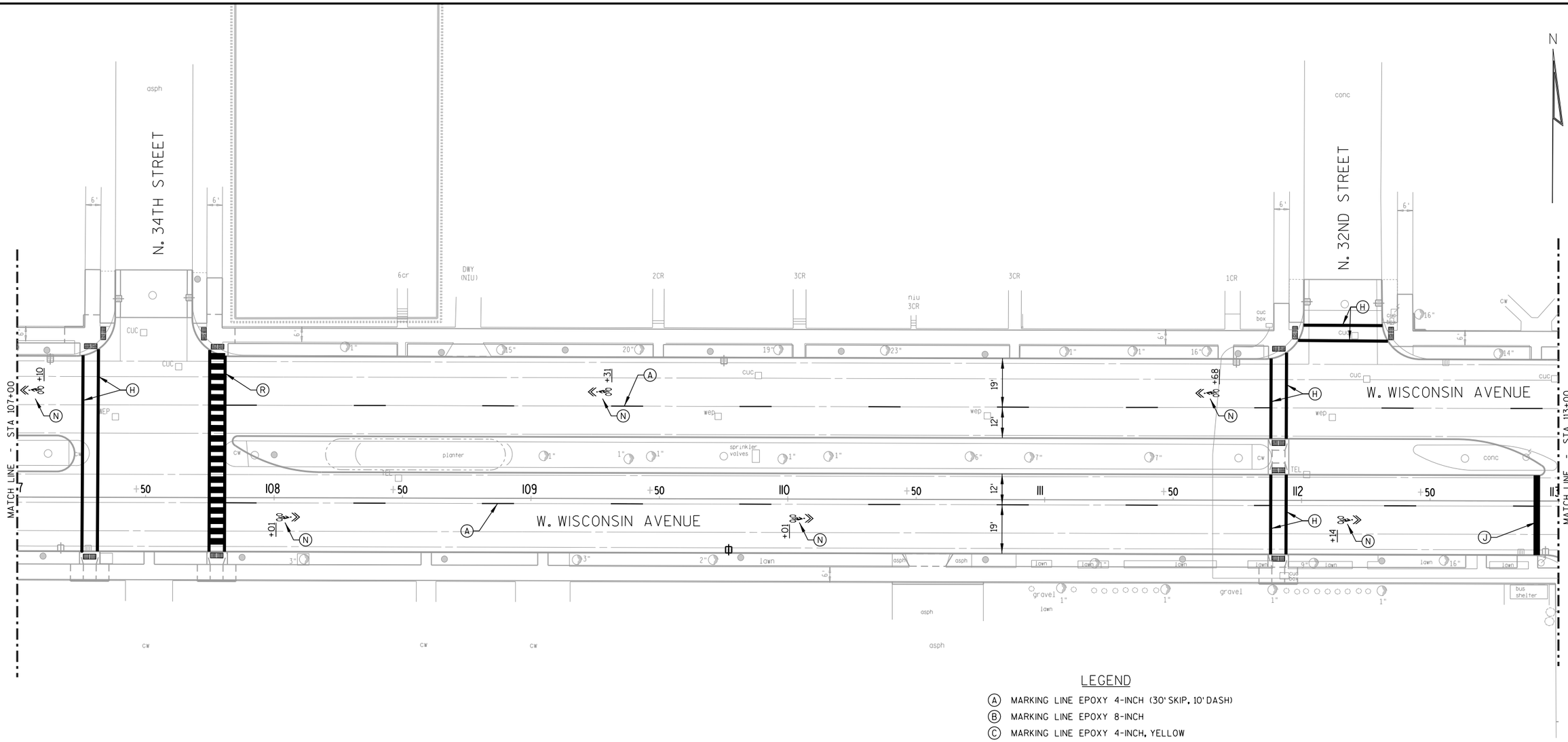

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- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 233	E

2

2

N

N. 31ST STREET

W. WISCONSIN AVENUE

N. 32ND STREET

N. 31ST STREET

MATCH LINE - STA 113+00

MATCH LINE - STA 119+00

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
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- (E) MARKING DIAGONAL EPOXY 12-INCH
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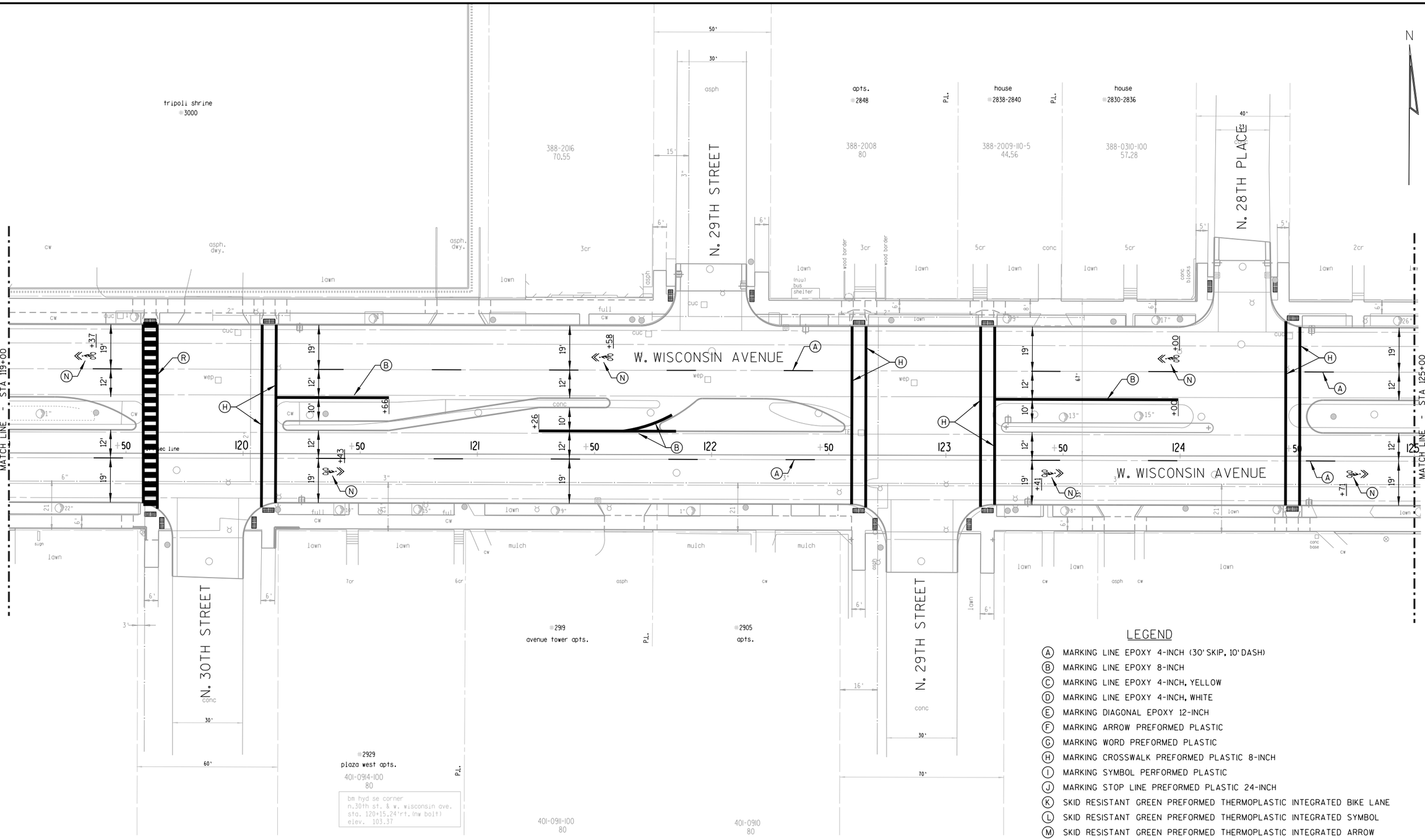
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 234	E

2



LEGEND

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- (B) MARKING LINE EPOXY 8-INCH
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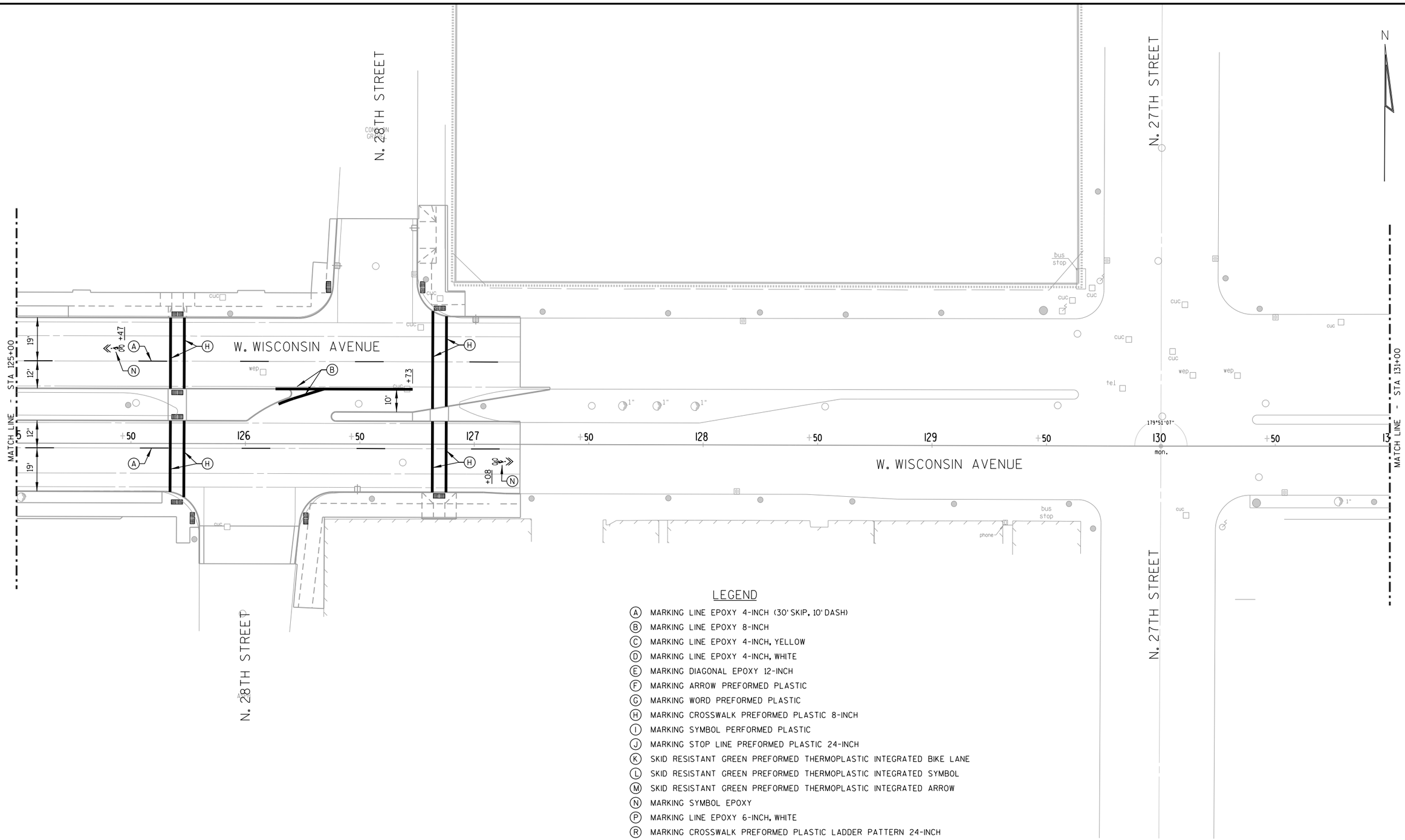

LEGEND

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- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 236	E

2

N

N. 26TH STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 131+00

MATCH LINE - STA 137+00

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
- (D) MARKING LINE EPOXY 4-INCH, WHITE
- (E) MARKING DIAGONAL EPOXY 12-INCH
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- (N) MARKING SYMBOL EPOXY
- (P) MARKING LINE EPOXY 6-INCH, WHITE
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 237	E

2

N. 25TH STREET

N. 24TH STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 137+00

MATCH LINE - STA 143+00

138 139 140 141 142

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
- (C) MARKING LINE EPOXY 4-INCH, YELLOW
- (D) MARKING LINE EPOXY 4-INCH, WHITE
- (E) MARKING DIAGONAL EPOXY 12-INCH
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- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 238	E

2

N. 24TH STREET

N. 23RD STREET

AMBASSADOR HOTEL

W. WISCONSIN AVENUE

MATCH LINE - STA 143+00

MATCH LINE - STA 149+00

N

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
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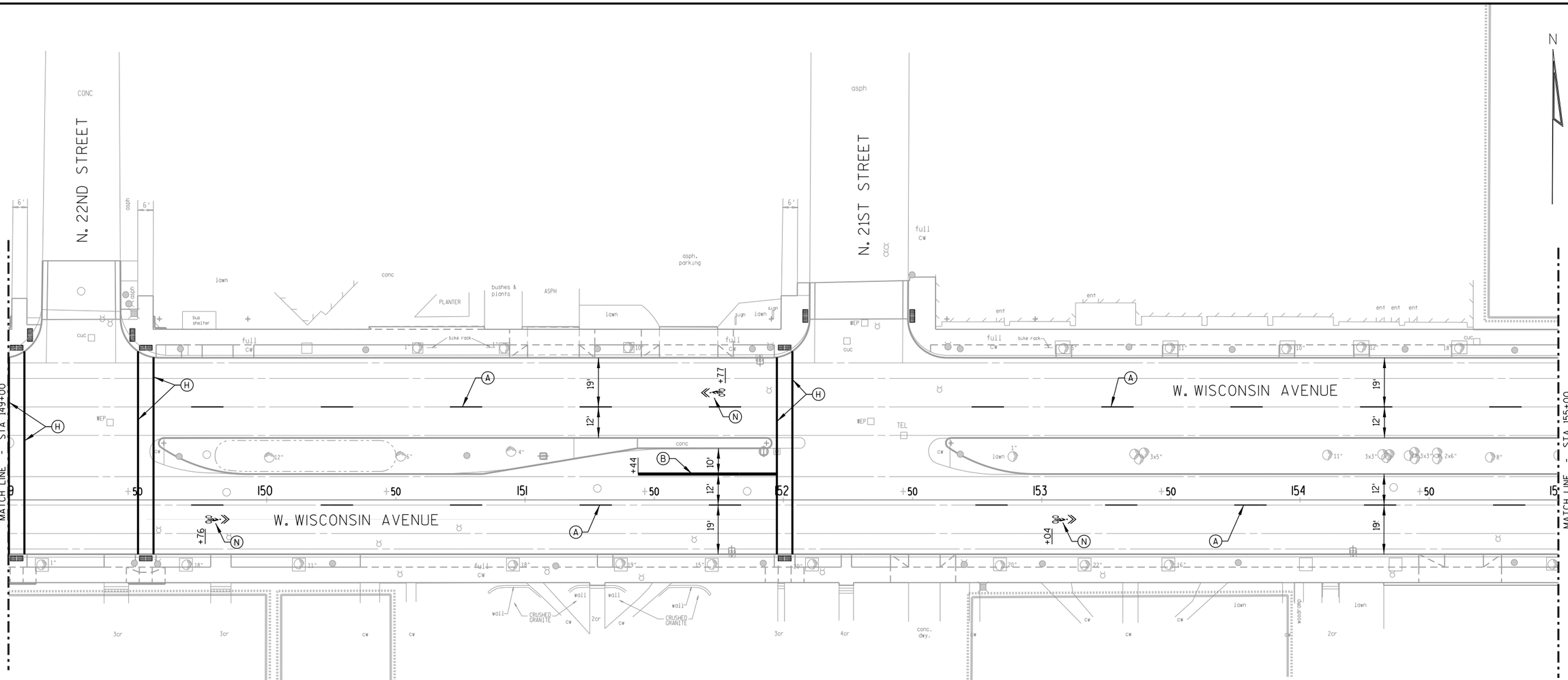
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 239	E



LEGEND

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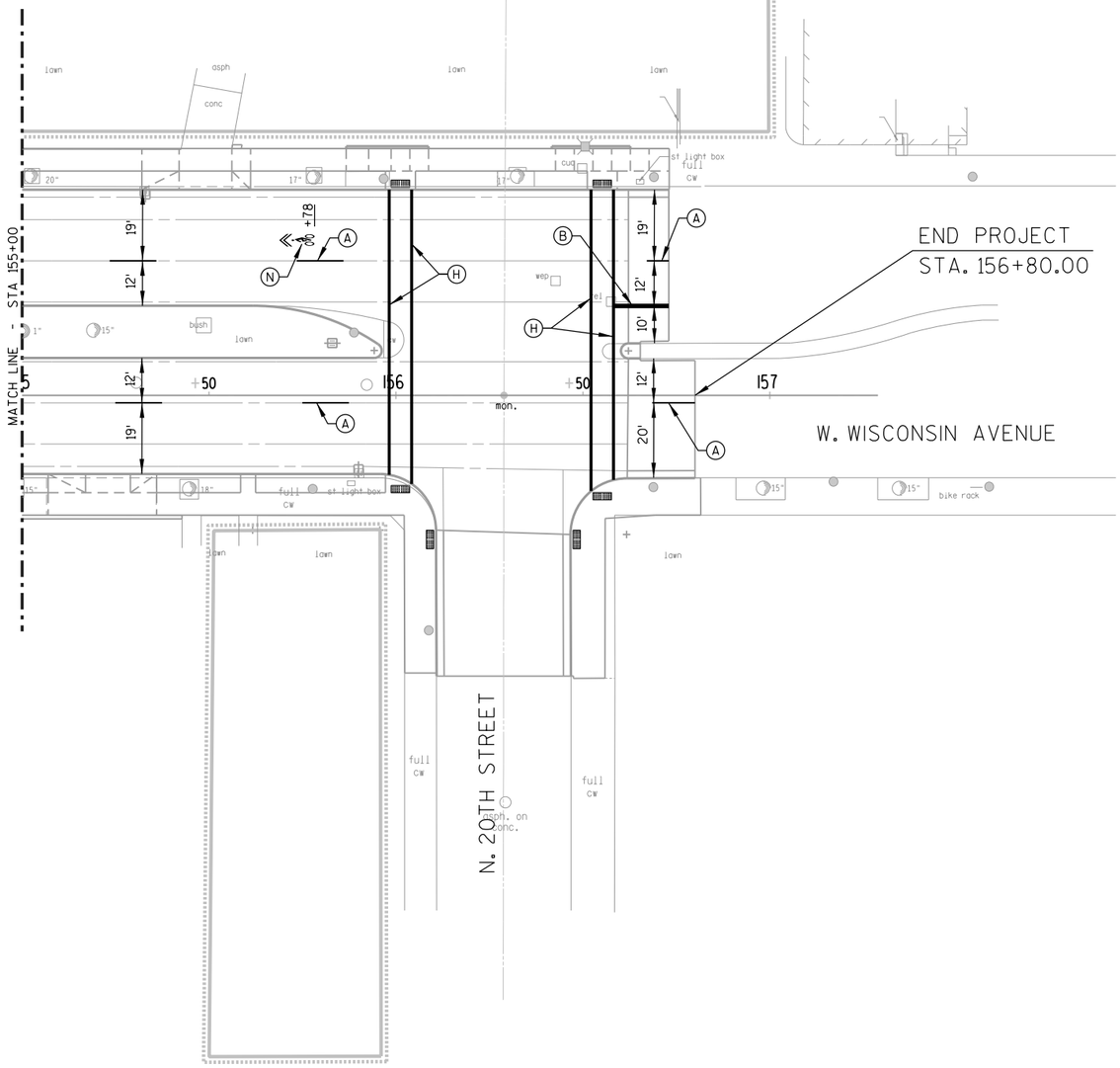
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 240	E

2



N

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (30' SKIP, 10' DASH)
- (B) MARKING LINE EPOXY 8-INCH
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- (N) MARKING SYMBOL EPOXY
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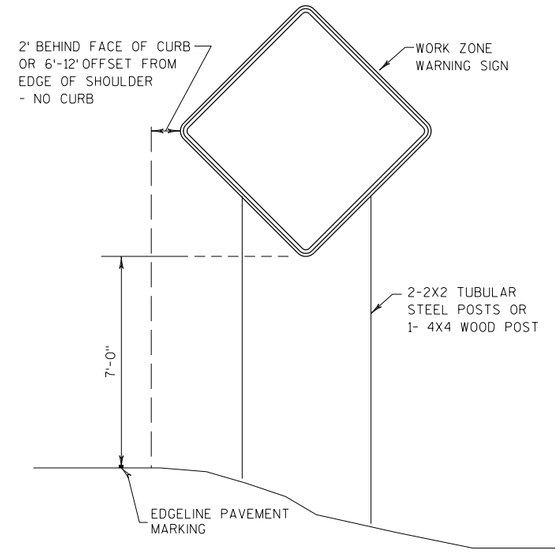
- (R) MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH

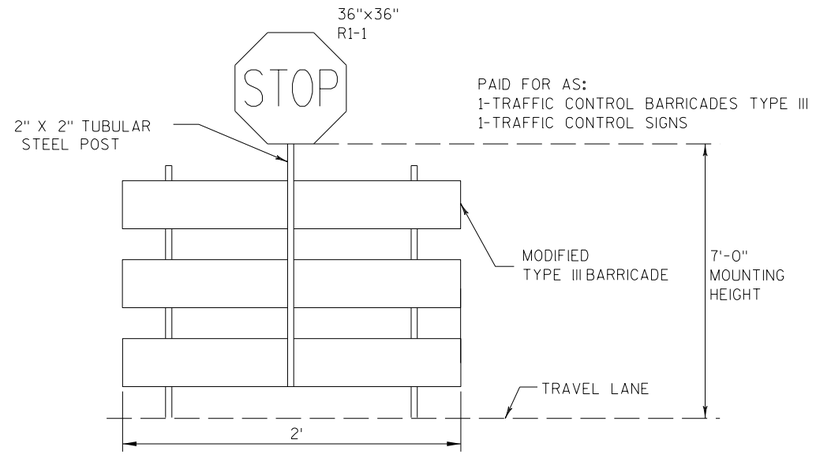
TRAFFIC CONTROL NOTES

1. MAINTAIN ONE 11-FOOT MINIMUM LANE IN BOTH DIRECTIONS AT ALL TIMES.
2. TRAFFIC CONTROL DRUMS ARE SPACED AT 25' O.C. EXCEPT AT DRIVEWAYS AND INTERSECTIONS, WHERE THE SPACING IS 10'.
3. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL. PAVEMENT MARKING SHOWN IS EXISTING.
4. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER. COVERING OF SIGNS IS INCLUDED IN "TRAFFIC CONTROL" ITEM.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, DIRECTIONAL ARROWS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHOD OR SEQUENCES OF OPERATION.
7. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
8. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED.
9. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.
10. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.
11. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.
12. CHANNELIZING DEVICES SHALL BE DRUMS WITH ATTACHED TYPE "C" STEADY BURN LIGHT.
13. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION. FOR PROPERTIES WITH MULTIPLE DRIVEWAYS, ONLY ONE DRIVEWAY CAN BE CLOSED/WORKED ON AT ANY TIME.
14. CONTACT THE CITY OF MILWAUKEE TO PLACE TEMPORARY NO PARKING SIGNS WITHIN THE PROJECT LIMITS PRIOR TO SETTING UP WORK ZONES AND SHIFTING TRAFFIC. PROVIDE 5 DAY NOTICE PRIOR TO WHEN PLACEMENT OF SIGNS IS NEEDED AND FOR EACH STAGE TRANSITION. CONTACT MIKE CHANESKE AT 286-5695 TO COORDINATE TEMPORARY NO PARKING SIGN PLACEMENT.

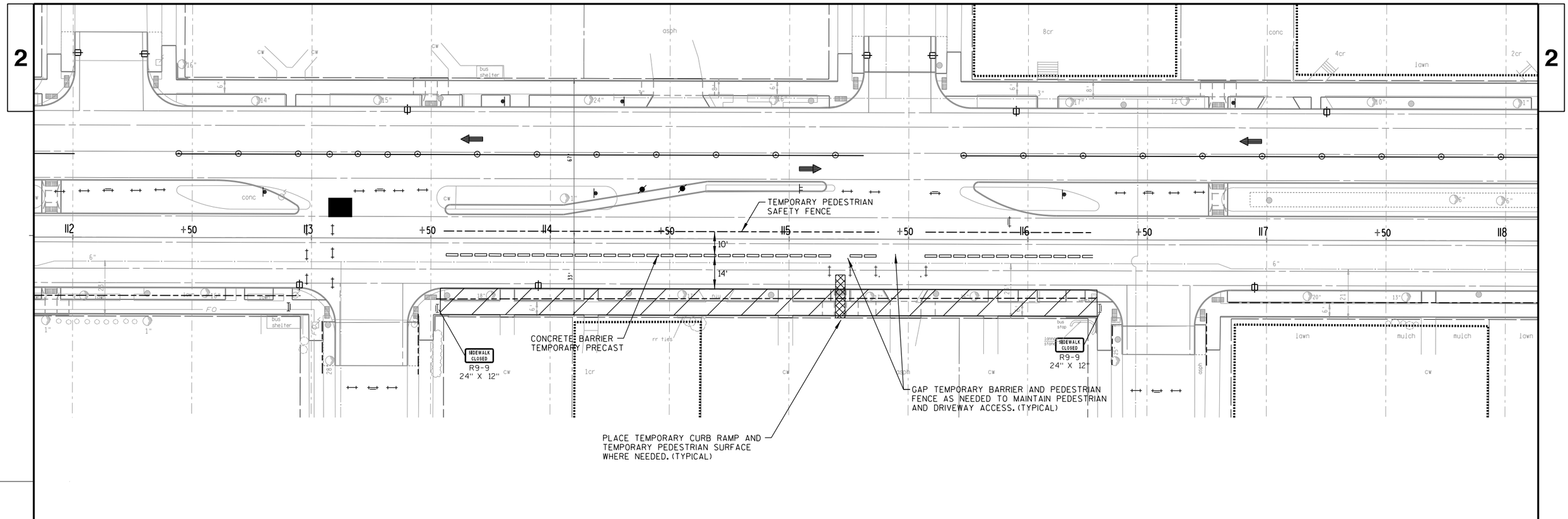


TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

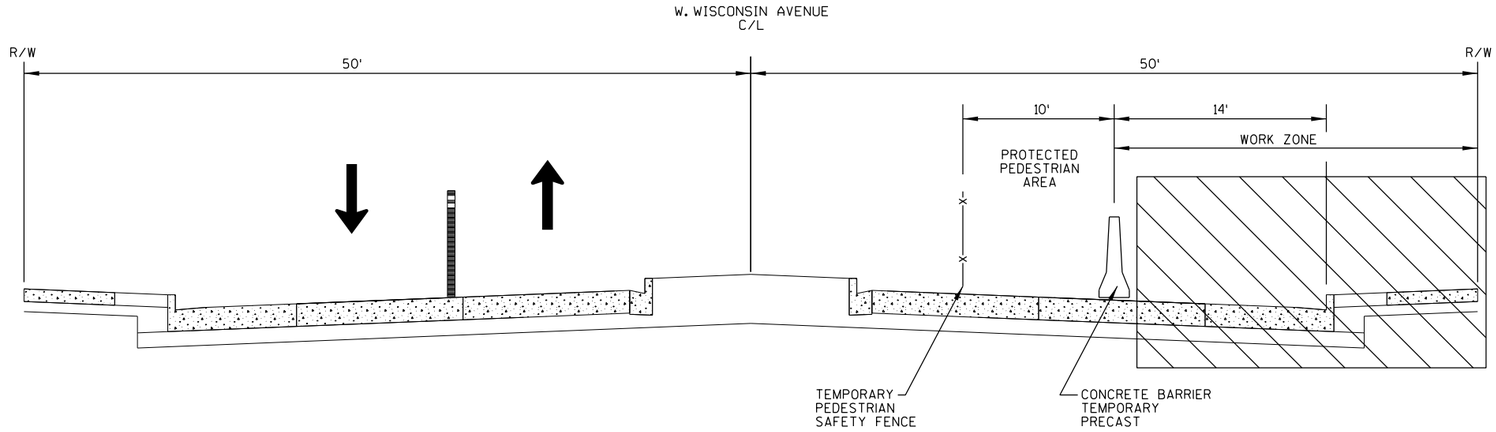


TEMPORARY STOP SIGN



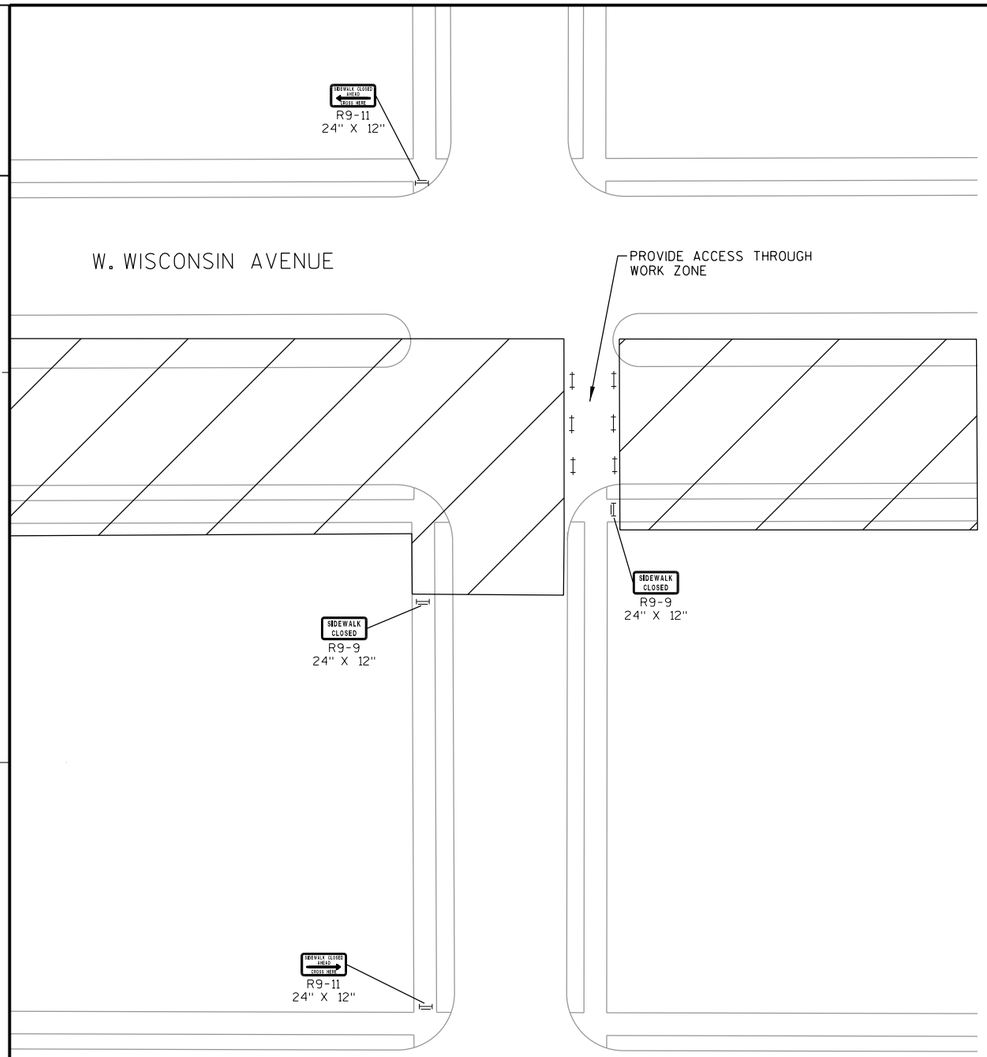
PEDESTRIAN ACCOMMODATION NOTES

1. MAINTAIN EXISTING SIDEWALK ACCESS ALONG WISCONSIN AVENUE WHILE ROADWAY IS BEING RECONSTRUCTED UNLESS OTHERWISED APPROVED BY THE ENGINEER.
2. NOTIFY PROPERTIES OWNERS OF ANY CONSTRUCTION ACTIVITIES THAT MAY AFFECT ACCESS 48 HOURS IN ADVANCE OF WORK. ACCESS DISRUPTIONS MUST BE APPROVED BY ENGINEER.
3. ONCE ROADWAY PAVEMENT IS COMPLETED, RECONSTRUCT SIDEWALK AND MAINTAIN PEDESTRIAN ACCESS TO PROPERTIES BY DETOURING PEDESTRIANS TO THE FINISHED ROADWAY PAVEMENT AS DETAILED IN PLANS. PROVIDE TEMPORARY CURB RAMPS AND TEMPORARY PEDESTRIAN SURFACE THROUGH THE WORK ZONE (WHERE NEEDED) TO MAINTAIN ACCESS TO PROPERTIES.
4. MAINTAIN PEDESTRIAN ACCESS THROUGH INTERSECTIONS BY ONLY CLOSING ONE SIDE OF AN INTERSECTION AT A TIME; OR BY DETOURING PEDESTRIANS TO NEXT ADJACENT SIDE STREET.
5. DO NOT CLOSE PEDESTRIAN ACCESS ACROSS WISCONSIN AVENUE TO TWO ADJACENT SIDE ROADS AT THE SAME TIME. REFER TO PEDESTRIAN ACCOMODATIONS - INTERSECTIONS DETAIL SHEET FOR ADDITIONAL INFORMATION.
6. REFER TO STANDARD DETAIL DRAWING "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.



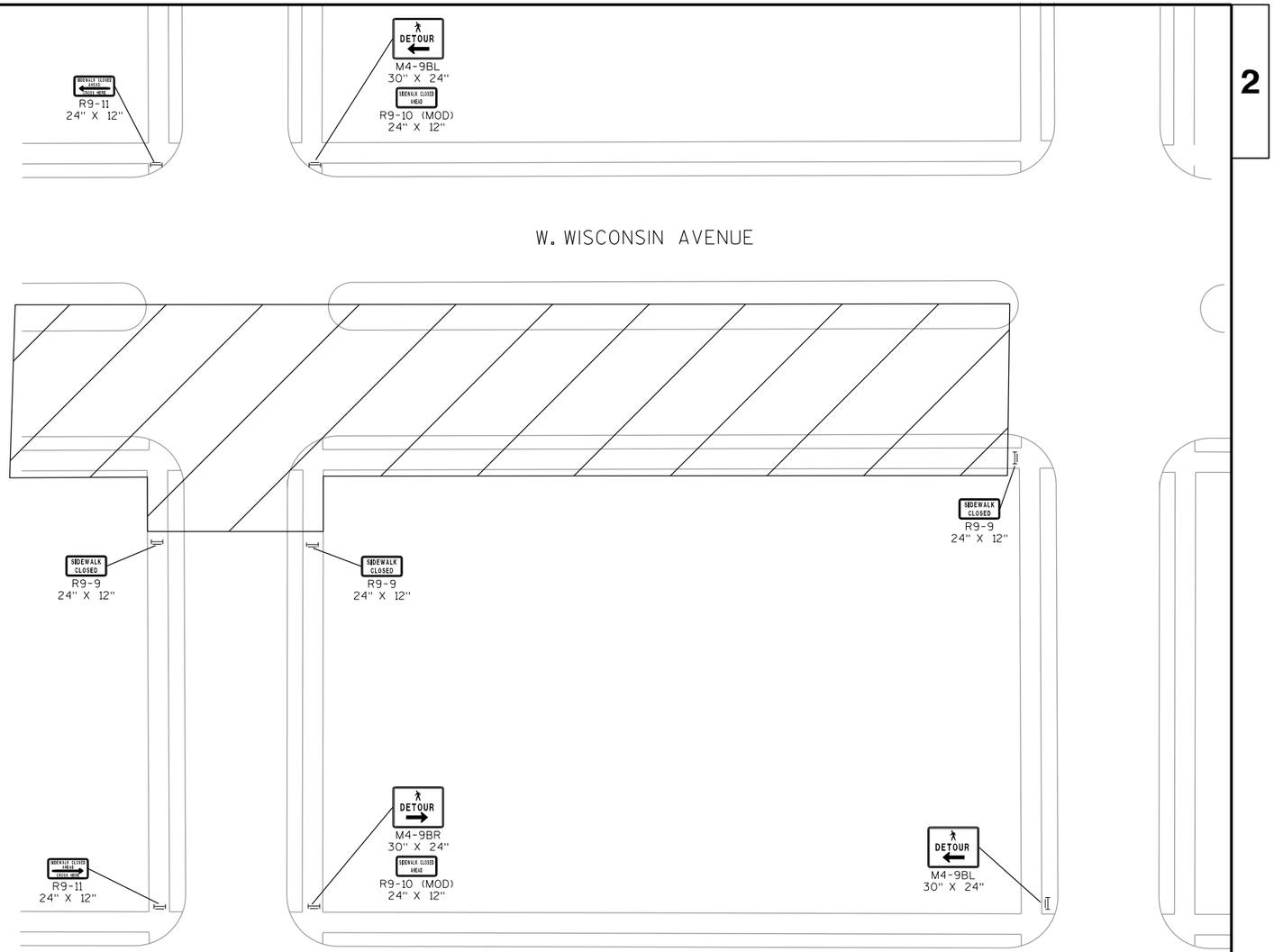
STAGING TYPICAL SECTION - SIDEWALKS

W. WISCONSIN AVENUE
(MAINTAIN PEDESTRIAN ACCESS IN COMPLETED ROADWAY PAVEMENT)



PARTIAL SIDEWALK CLOSURE - NO DETOUR

TYPICAL SIDEWALK CLOSURE WHEN ONLY
CLOSING ONE SIDE OF THE INTERSECTION



FULL SIDEWALK CLOSURE - DETOUR

TYPICAL SIDEWALK DETOUR WHEN COMPLETELY
CLOSING ONE OF THE SIDE ROADS

PEDESTRIAN ACCOMMODATION NOTES

1. MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES BY ONLY CLOSING ONE SIDE OF THE INTERSECTION AT A TIME OR BY DETOURING PEDESTRIANS TO NEXT SIDE STREET. DO NOT CLOSE TWO ADJACENT SIDE ROADS AT THE SAME TIME.

2. SEE STANARD DETAIL DRAWING "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

2

N

N 37TH STREET

N 35TH STREET

N 34TH STREET

N 33RD STREET

N 31ST STREET

W KILBOURN AVENUE

N 29TH STREET

N 28TH STREET

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED AHEAD W20-3A

ONE WAY COVER SIGN

ONE WAY COVER SIGN

ONE WAY COVER SIGN

ONE WAY COVER SIGN

W06-3 36" X 36"

W06-3 36" X 36"

W WELLS STREET

N 34TH STREET

N 32ND STREET

N 31ST STREET

W WISCONSIN AVENUE

W WISCONSIN AVENUE

SEE STAGING PLANS FOR ADDITIONAL INFORMATION

N 32ND STREET

N 31ST STREET

N 30TH STREET

N 29TH STREET

N 28TH STREET

W MICHIGAN STREET

GENERAL NOTES

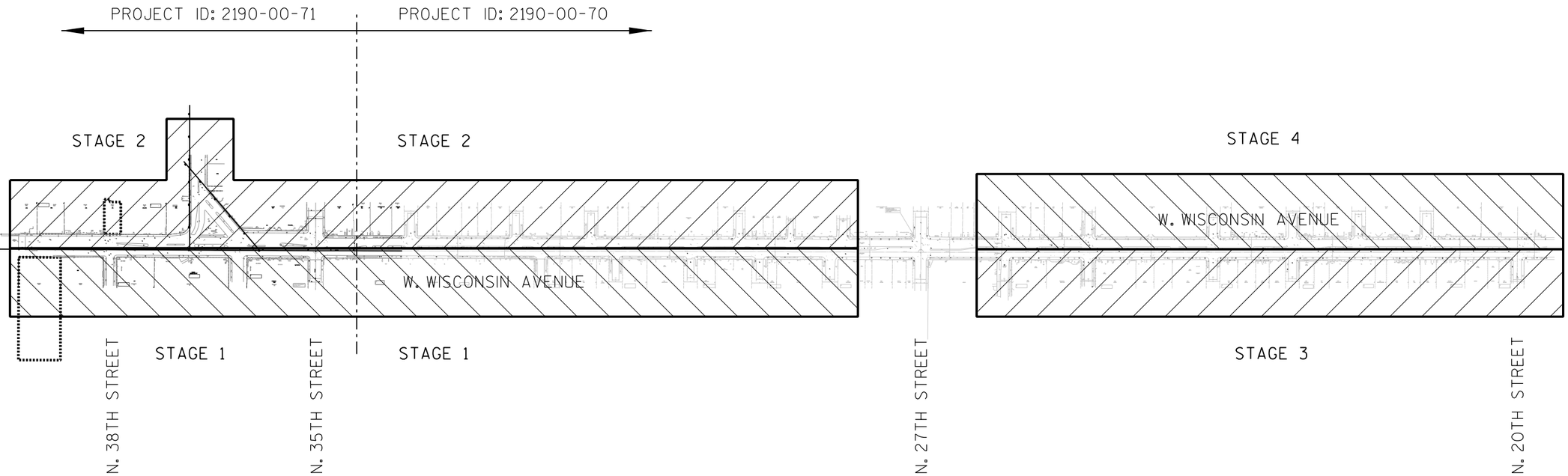
CONVERT N. 32ND & N. 34TH STREET TO TWO-WAY TRAFFIC BETWEEN WELLS STREET AND WISCONSIN AVENUE DURING CONSTRUCTION STAGE 2A & 2B.

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

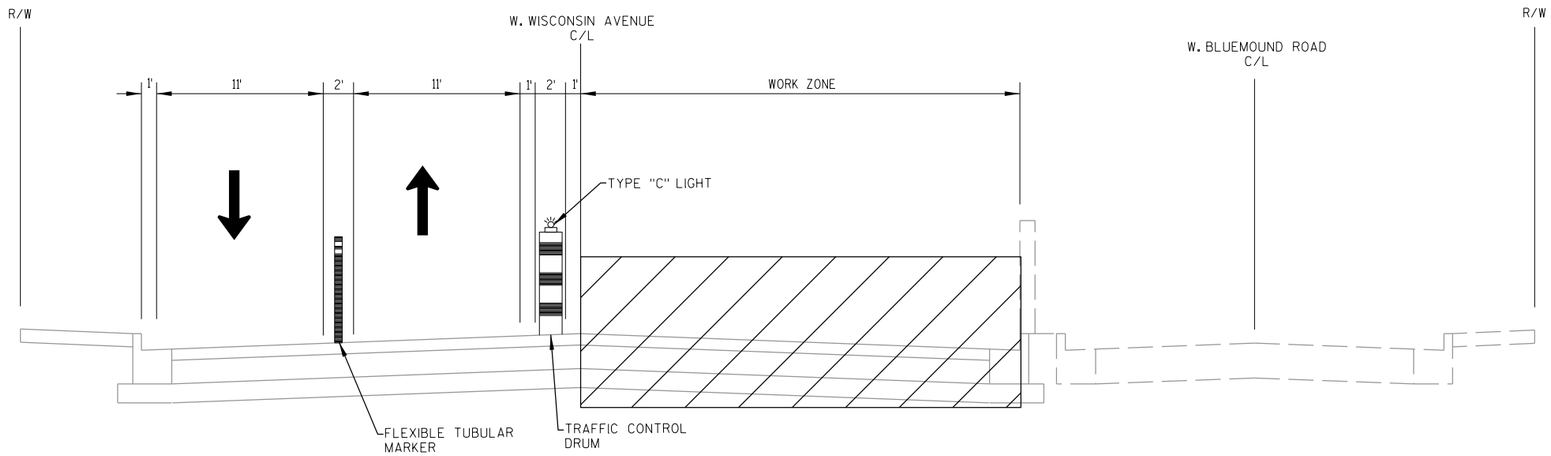
PROJECT NO: 2190-00-70/2190-00-71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL NOTES	SHEET 245	E

2

N



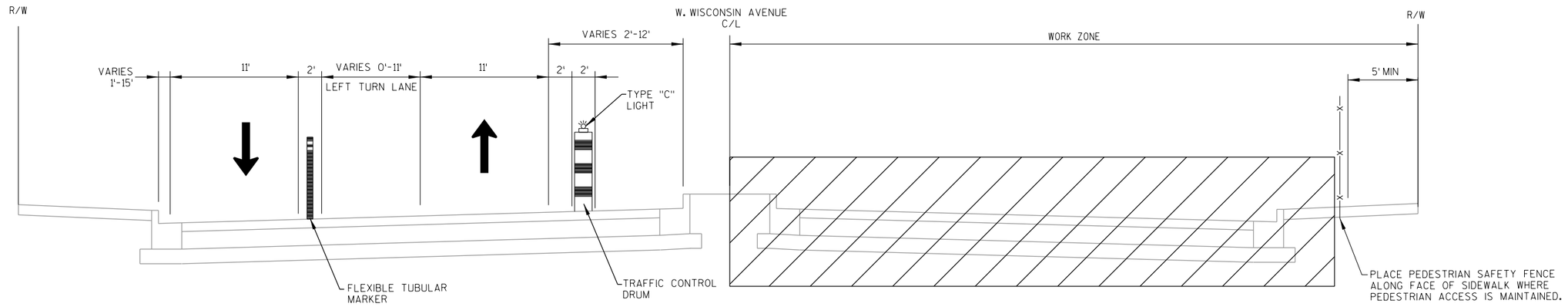
PROJECT NO: 2190-00-70/2190-00-71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW	SHEET 246	E



STAGE 1

USH 18 / W. WISCONSIN AVENUE

STA. 16+35 TO STA. 21+00

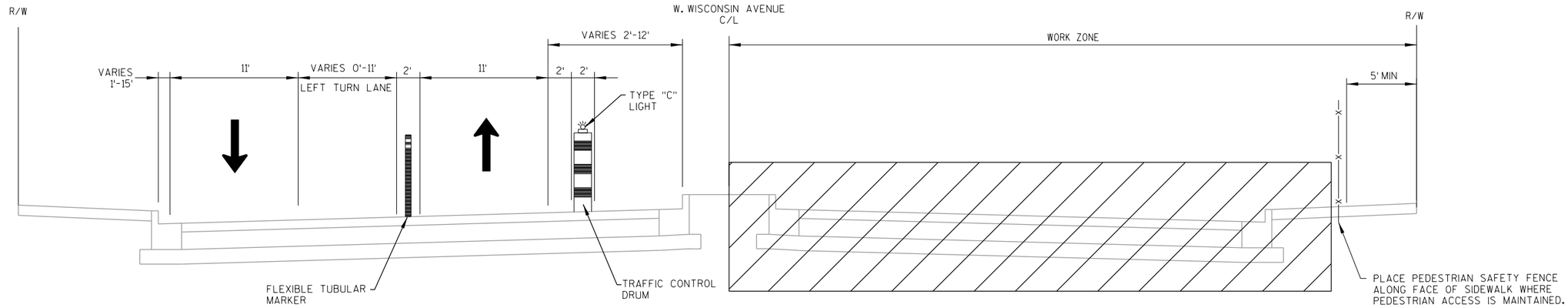


STAGE 1

USH 18 / W. WISCONSIN AVENUE

STA. 21+00 TO STA. 32+65.50

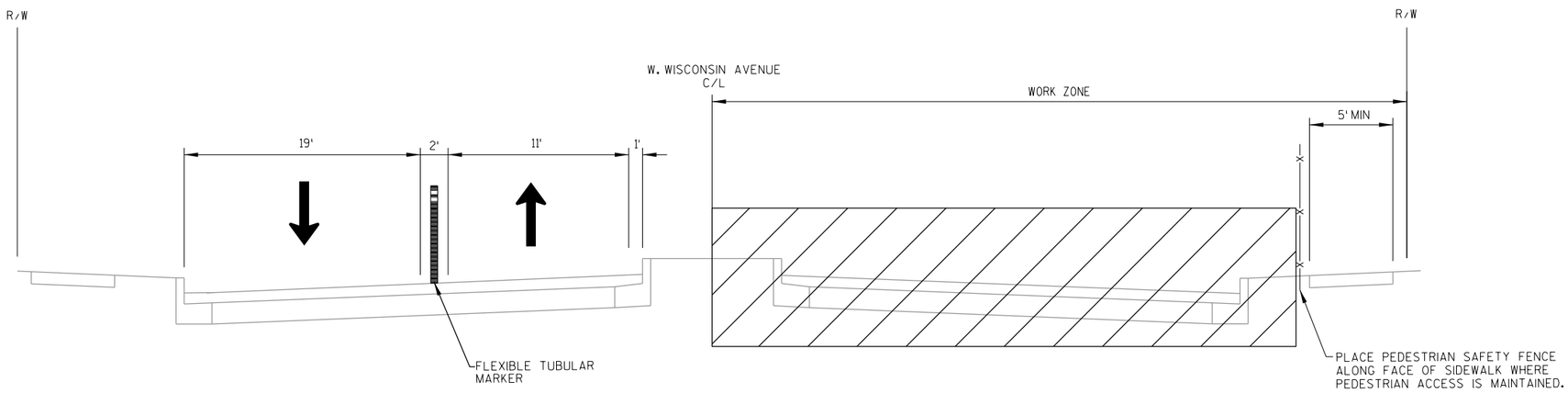
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 1	SHEET 247	E



STAGE 1

W. WISCONSIN AVENUE

STA. 103+65.50 TO STA. 105+55



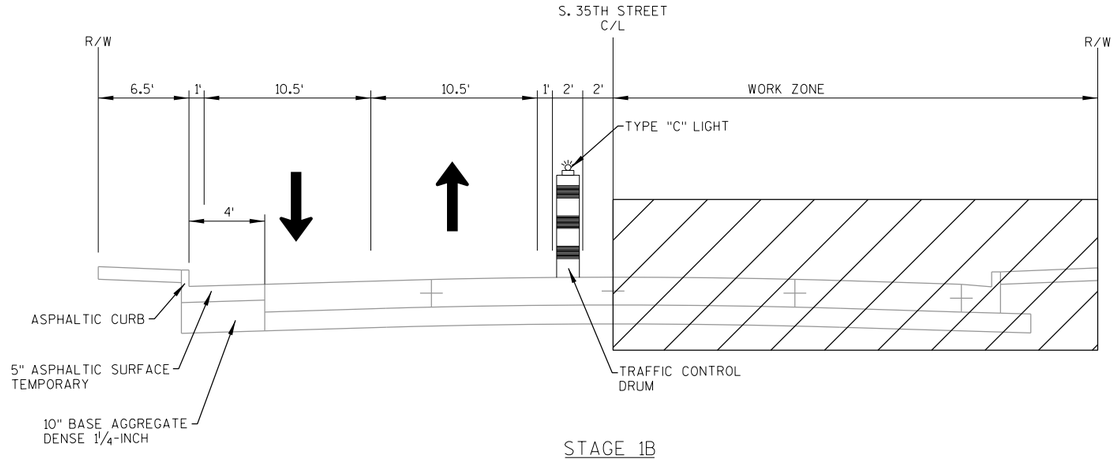
STAGE 1

W. WISCONSIN AVENUE

STA. 105+55 TO STA. 127+00

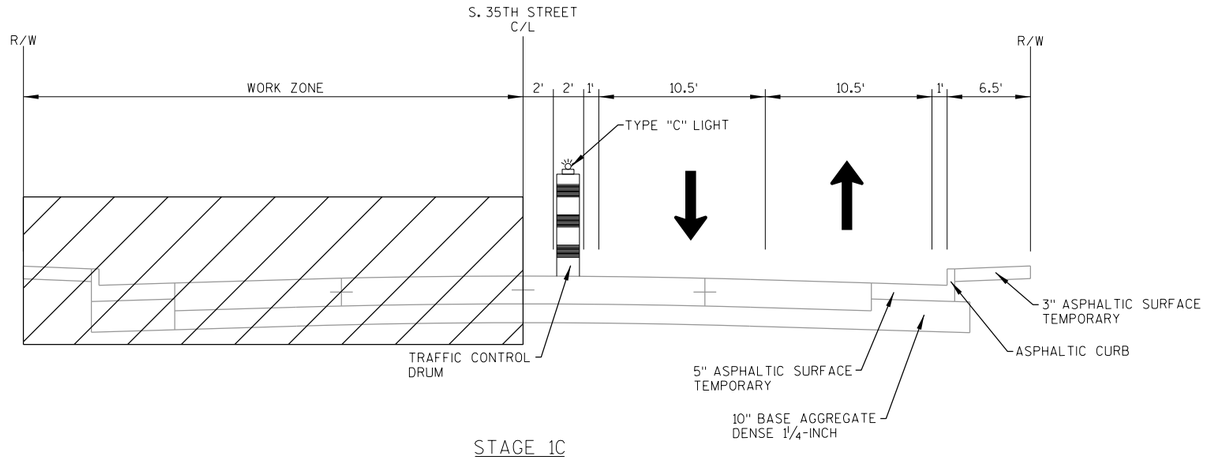
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 1	SHEET 248	E

2



STAGE 1B

S. 35TH STREET
(SOUTH OF W. WISCONSIN AVENUE)



STAGE 1C

S. 35TH STREET
(SOUTH OF W. WISCONSIN AVENUE)

2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

N

R9-11
24" X 12"
PLACE SIGN AT
36TH STREET

ROAD WORK AHEAD
W20-1A

SHOULDER WORK
W21-5

WORK ZONE FOR TEMPORARY WIDENING IMPROVEMENTS. REFER TO STAGE 1B AND STAGING TYPICAL SECTIONS FOR ADDITIONAL INFORMATION. FINAL CURB & GUTTER TO BE PLACED IN STAGE 1C.

END ROAD WORK
G20-2A
48" X 24"

R9-11
24" X 12"
PLACE SIGN AT
MICHIGAN STREET

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

LANE CLOSED
R11-2L
48" X 30"

N. 35TH STREET

W. WISCONSIN AVENUE

END ROAD WORK
G20-2A
48" X 24"

R9-11
24" X 12"

125' TURN LANE | 50' | 50' | 180' LANE DROP | 200' | 400' | 400'

W01-6
48" X 24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

R9-11
24" X 12"

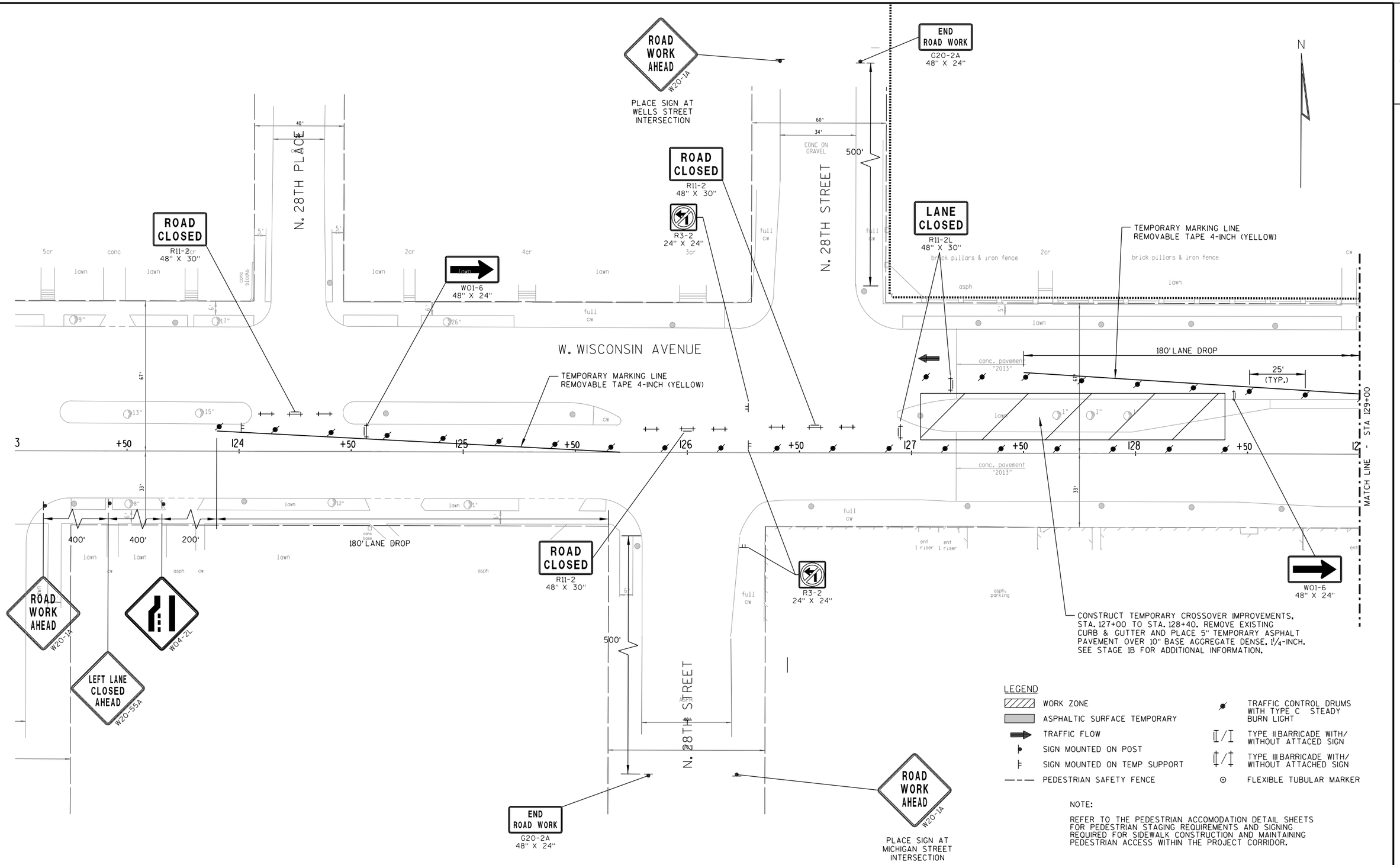
ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A

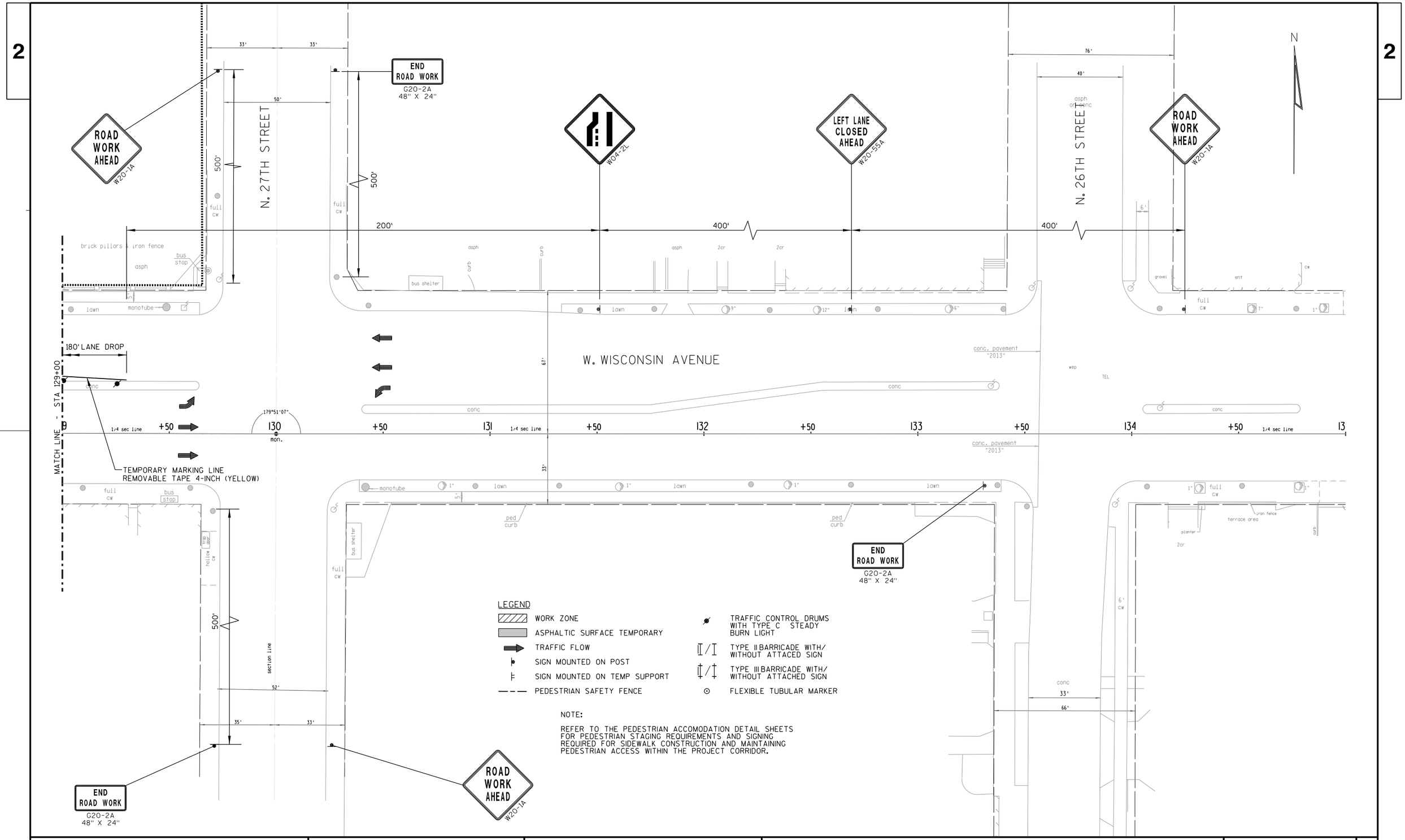
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 250	E

2



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 251	E

2



NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

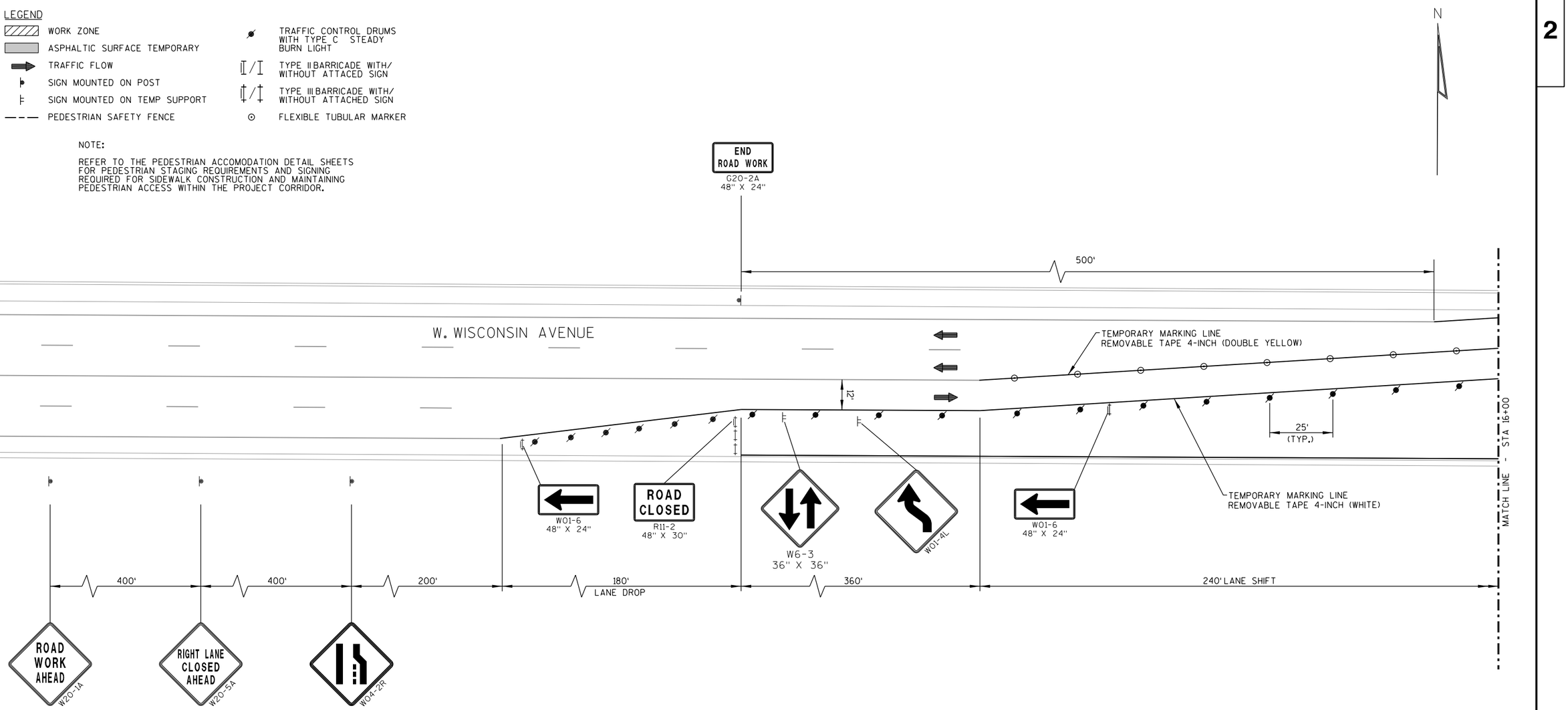
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1A	SHEET 252	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 253	E

2

N

W01-4L

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

TEMPORARY MARKING LINE
PAINT 4-INCH (WHITE)

ASPH. | CONC. | RR TIE BORDER | ASPH. | RR TIE BORDER | ASPH. | RR TIE BORDER | ENT

W. WISCONSIN AVENUE

13'
12'

10' THROUGH INTERSECTION

240' LANE SHIFT

25' (TYP.)

MATCH LINE - STA 16+00

MATCH LINE - STA 22+00

N.89°01'02"e.

17 | 18 | 19 | 20 | 21

NO CURB

CONC PARAPET WALL

CONC PARAPET WALL

W. BLUEMOUND ROAD

0.4 OVERHANG | 0.3 OVERHANG | 0.7 OVERHANG

RR TIES & PLYWOOD WALL

FULL CW W/INT C&G

LAWN

LAWN | LAWN

WOOD BOX

ASPH. PARKING

11'

W06-3
36" X 36"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT S.E. CORNER OF 40TH STREET & BLUEMOUND ROAD

N. 39TH STREET

R3-1
24" X 24"

ROAD CLOSED
R11-2
48" X 30"

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

PEDESTRIAN SAFETY FENCE (TYPICAL)

LAWN

SAP

BUSHES @ HIGH CW

500'

11'

15'

PARKING

N. 38TH STREET

ROAD CLOSED
R11-2
48" X 30"

END ROAD WORK
G20-2A
48" X 24"

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 254	E

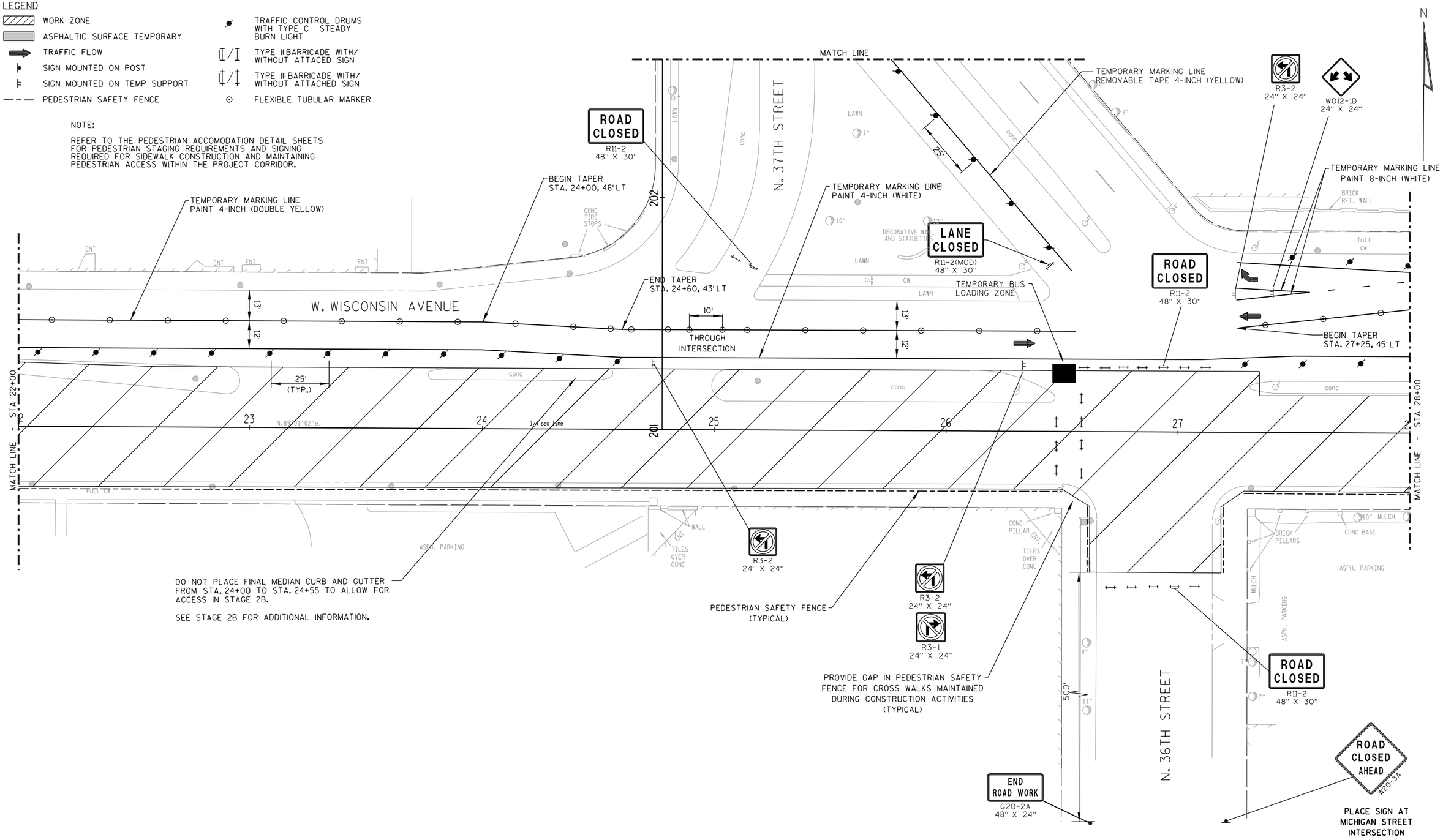
2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 255	E

2

P.L.

N

MTDAS # 3706

DEAD END ALLEY

ROAD WORK AHEAD
W20-1A

203 204 205 206 207

N. 37TH STREET

conc

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

25'
(TYP.)

12'

MATCH LINE

curb

ROAD CLOSED AHEAD
W20-3A

LANE CLOSED
R11-2(MOD)
48" X 30"

END ROAD WORK
G20-2A
48" X 24"

gravel

ditch

W. WELLS STREET

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 256	E

2

N

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

WO6-3
36" X 36"

TEMPORARY MARKING LINE
PAINT 8-INCH (WHITE)

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

WO1-6
48" X 24"

TEMPORARY MARKING LINE
PAINT 4-INCH (YELLOW)
(2' LINE, 6' GAPS)

BEGIN TAPER
STA. 31+80, 31'LT

TEMPORARY MARKING LINE
PAINT 8-INCH (WHITE)

TEMPORARY MARKING LINE
PAINT 4-INCH (WHITE)

END TAPER
STA. 28+25, 56'LT

BEGIN TAPER
STA. 28+90, 56'LT

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

SIDEWALK CLOSED AHEAD USE OTHER SIDE
R9-11
24" X 12"

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

LANE CLOSED
R11-2L
48" X 30"

END TAPER
STA. 29+90, 50'LT

W. WISCONSIN AVENUE

TEMPORARY MARKING
STOP LINE PAINT 18-INCH

MATCH LINE - STA 28+00

MATCH LINE - STA 32+00

PEDESTRIAN SAFETY FENCE
(TYPICAL)

ASPH. PARKING

30+05.56
29.21 RT

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

WO1-3R

30+05.77
29.21 RT

30+07.28
29.21 RT

15 M.P.H.
WO13-1
24" X 24"

WO1-6
48" X 24"

LANE CLOSED
R11-2L
48" X 30"

N. 35TH STREET

ROAD CLOSED
R11-2
48" X 30"

WO1-6
48" X 24"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

LANE CLOSED
R11-2L
48" X 30"

SIDEWALK CLOSED
R9-9
24" X 12"

REMOVE EXISTING RAISED MEDIAN AND CONSTRUCT NEW CONCRETE PAVEMENT. DO NOT PLACE FINAL CURB & GUTTER. PLACE TEMPORARY PAVEMENT FOR USE IN STAGE 2A. SEE STAGE 2A FOR TEMPORARY PAVEMENT LIMITS.

TEMPORARY BUS LOADING ZONE
TEMPORARY CURB RAMP REQUIRED

WORK ZONE FOR TEMPORARY WIDENING IMPROVEMENTS. REFER TO STAGE 1C AND CONSTRUCTION STAGING TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.

TEMPORARY ASPHALT FOR SIDEWALK TO BUS STOP ON WISCONSIN AVENUE TO BE PLACED WITHIN 48 HOURS FROM INITIAL DISTURBANCE.

FINAL CURB & GUTTER TO BE PLACED IN LATER STAGE.

TEMPORARY BUS LOADING ZONE
TEMPORARY CURB RAMP REQUIRED

REFER TO TRAFFIC CONTROL - STAGE 1B (35TH STREET) SHEETS FOR ADDITIONAL INFORMATION SOUTH OF WISCONSIN AVENUE.

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 257	E

SEE PROJECT 2190-00-71
FOR ADDITIONAL INFORMATION

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 34TH STREET

W. WISCONSIN AVENUE

W06-3
36" X 36"

TEMPORARY MARKING LINE
PAINT 8-INCH (WHITE)
(3' LINE 9' GAP)

END TAPER
STA. 105+55, 35' LT

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

MATCH LINE - STA 32+00

MATCH LINE - STA 111+00

106 107 108 109 110 111

+50

1/4 sec line

R3-2
24" X 24"

W06-3
36" X 36"

MAINTAIN ACCESS TO DRIVEWAY

R3-2
24" X 24"

ROAD CLOSED
R11-2
48" X 30"

PROJECT 2190-00-71 | PROJECT 2190-00-70

STA. 32+65.50 = STA. 105+65.50

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

2

N

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 32ND STREET

N. 31ST STREET

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

R3-2
24" X 24"

W06-3
36" X 36"

ROAD CLOSED
R11-2
48" X 30"

W. WISCONSIN AVENUE

10' THROUGH INTERSECTION

25' (TYP.)

MATCH LINE - STA 111+00

MATCH LINE - STA 117+00

R3-1
24" X 24"

TEMPORARY BUS LOADING ZONE

PEDESTRIAN SAFETY FENCE (TYPICAL)

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

MAINTAIN ACCESS TO DRIVEWAY

BUS STOP DISCONTINUED DURING CONSTRUCTION

ROAD CLOSED AHEAD
W20-3A
PLACE SIGN AT MICHIGAN STREET INTERSECTION

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 259	E

2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

ROAD CLOSED
R11-2
48" X 30"

R3-2
24" X 24"

N. 29TH STREET

W. WISCONSIN AVENUE

25' (TYP.)

20'

13'

MATCH LINE - STA 117+00

MATCH LINE - STA 123+00

+50 118 +50 119 +50 1/4 sec. line 120 +50 121 +50 122 +50 12

R3-1
24" X 24"

500'

60'

TEMPORARY BUS LOADING ZONE

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 260	E

2

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 28TH PLACE

N. 28TH STREET

W. WISCONSIN AVENUE

WO6-3
36" X 36"

R3-2
24" X 24"

R3-1
24" X 24"

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

ROAD CLOSED
R11-2
48" X 30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

WO1-6
48" X 24"

+99.84
22.64 LT

180' LANE DROP

+39.59
26.29 LT

25'
(TYP.)

+39.60
14.65 LT

+07.64
8.78 LT

+98.46
7.58 LT

MATCH LINE - STA 123+00

MATCH LINE - STA 129+00

PEDESTRIAN SAFETY FENCE
(TYPICAL)

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES
(TYPICAL)

WO1-3R
20 M.P.H.
WO13-1
24" X 24"

N. 29TH STREET

ROAD CLOSED AHEAD
W20-3A
PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

500'

BEGIN 211' RADIUS
STA. 126+90, 35'LT

END 211' RADIUS, BEGIN 200' RADIUS
STA. 127+65.2, 21.1'LT

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

END 200' RADIUS
STA. 128+36.5, 8'LT

PLACE SIGN AT MICHIGAN STREET INTERSECTION

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 261	E

2

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48" X 24"

W04-2L

LEFT LANE CLOSED AHEAD W20-5

ROAD WORK AHEAD W20-1A

N. 27TH STREET

N. 26TH STREET

W. WISCONSIN AVENUE

N

33' 33' 50' 76' 40'

500' 500' 200' 400' 400'

brick pillars & iron fence asph bus stop lawn monotube full cw

bus shelter asph curb 2cr lawn 9" 12" 6" gravel ent 6' 7" 1"

180' LANE DROP

MATCH LINE - STA 129+00

conc

1/4 sec line +50 130 +50 131 1/4 sec line +50 132 +50 133 +50 134 +50 1/4 sec line 13

mon.

conc. pavement "2013"

wep TEL

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

67' 33'

full cw bus stop hollow 4" trap 200' 500' 500' section line 52' 35' 33'

monotube 1" lawn 1" lawn 1" lawn 6"

ped curb ped curb bus shelter full cw

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48" X 24"

1" full cw 1" iron fence terrace area planter curb 2cr 6' cw conc 33' 66'

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

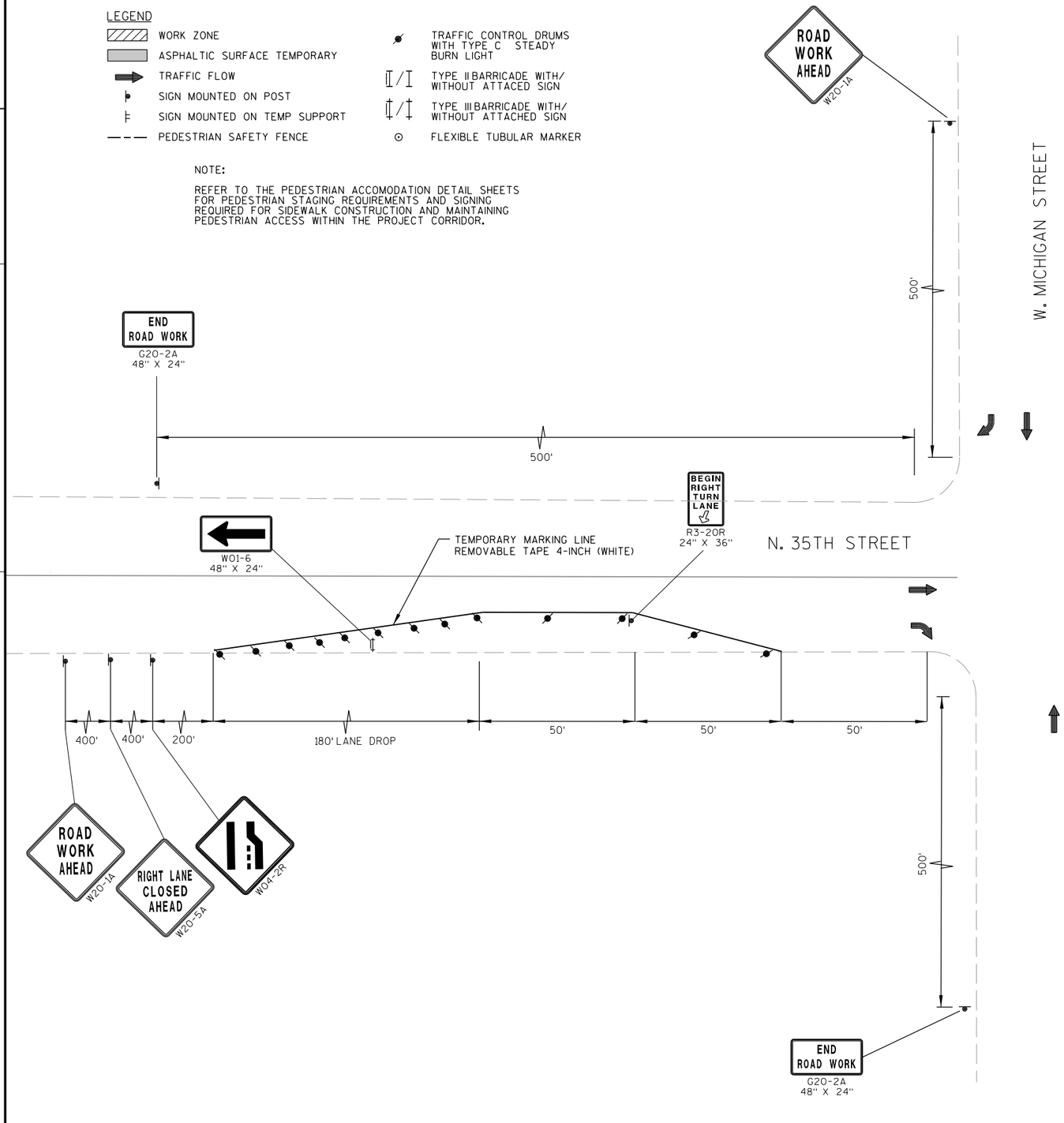
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B	SHEET 262	E

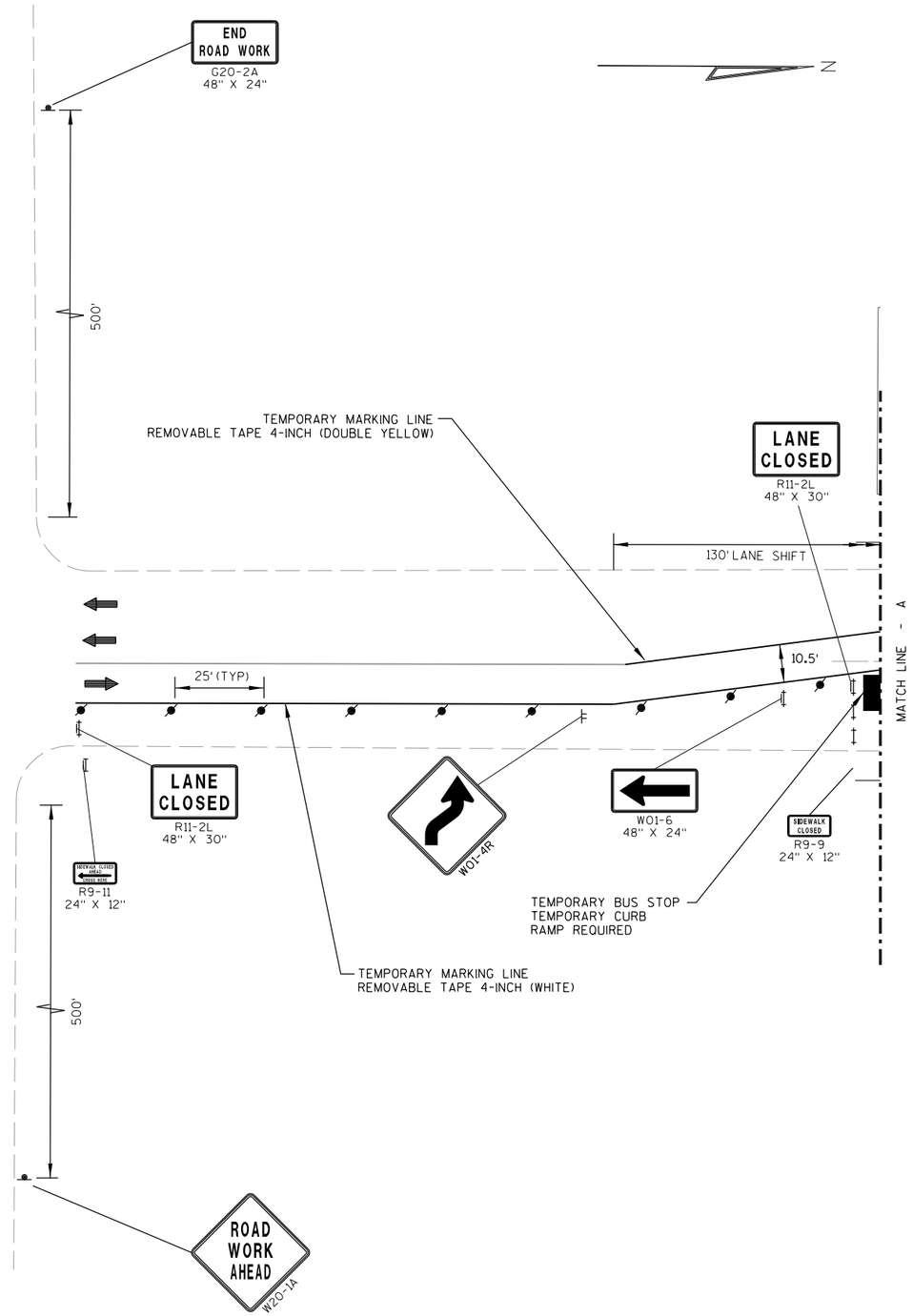
LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.





PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B (35TH STREET)	SHEET 263	E

2

W. WISCONSIN AVENUE

N. 35TH STREET

MATCH LINE - A

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

ROAD CLOSED
R11-2
48" X 30"

TEMPORARY MARKING STOP LINE PAINT (18-INCH)

R9-11
24" X 12"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

130' LANE SHIFT

81' +/-

+07.3
123.8 RT

+09.8
123.9 RT

+05.8
105.1 RT

+05.6
29.2 RT

+10.0
36.3 RT

10.5'

10.5'

B.M. NW BOLT HYD SW CORNER N. 35TH ST. & W. WISCONSIN AVE. STA. 29+88.2 26' RT. ELEV. 106.24

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) (2' LINE, 6' GAP)

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

LEFT LANE MUST TURN LEFT
R3-7L
30" X 30"

LEFT LANE MUST TURN LEFT
R3-7L
30" X 30"

ROAD WORK AHEAD
W20-1A

125'

100'

200'

100'

40'

40'

17'

12'

25'(TYP)

TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (3' LINE, 9' GAP)

TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

500'

LANE CLOSED
R11-2L
48" X 30"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

R9-11
24" X 12"

W01-6
48" X 24"

END ROAD WORK
G20-2A
48" X 24"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

W01-3R

15 M.P.H.
W013-1
24" X 24"

WORK ZONE FOR TEMPORARY WIDENING IMPROVEMENTS. REFER TO STAGE 1C AND CONSTRUCTION STAGING TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.

FINAL CURB & GUTTER TO BE PLACED IN LATER STAGE.

TEMPORARY BUS LOADING ZONE
TEMPORARY CURB RAMP REQUIRED

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

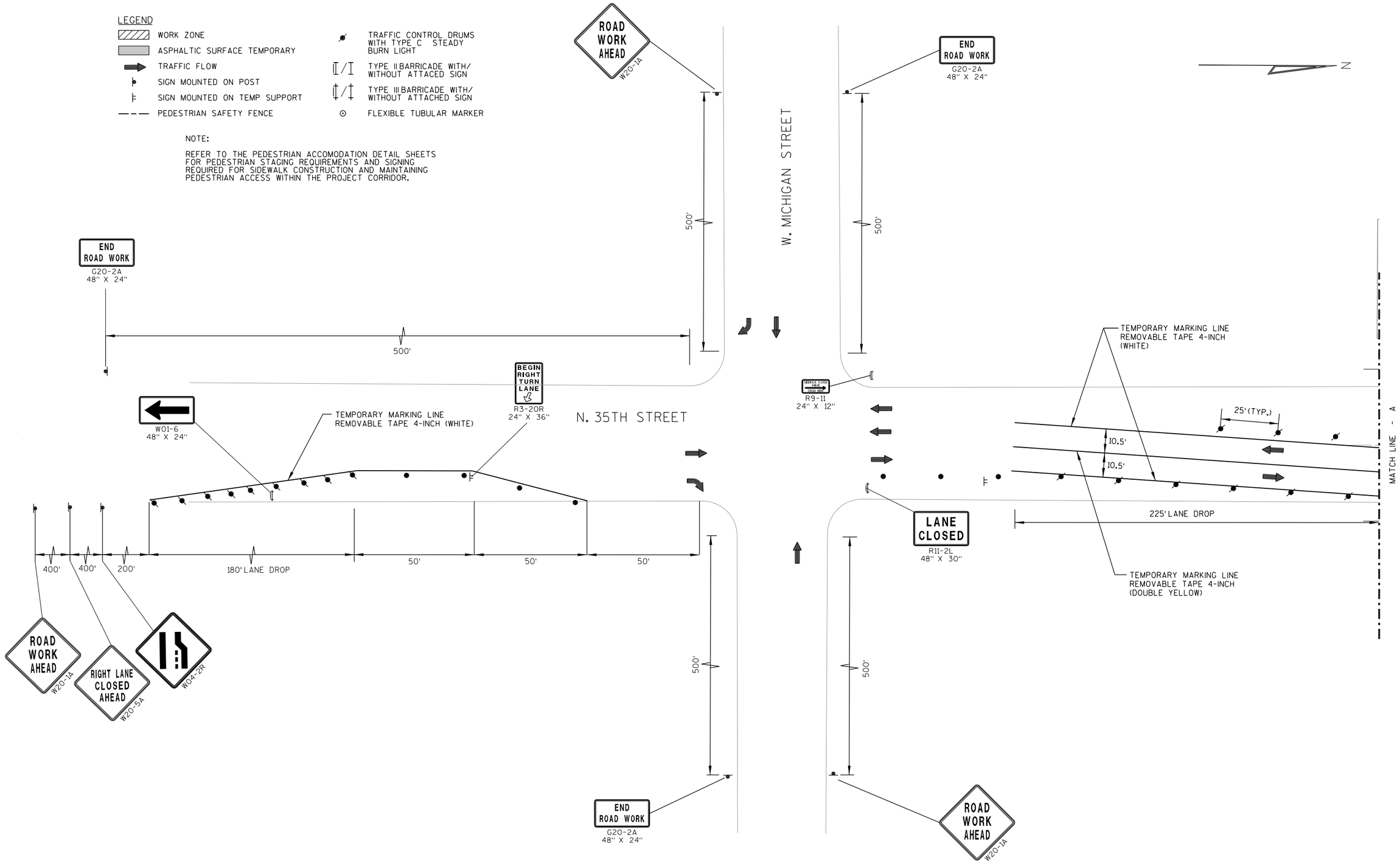
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1B (35TH STREET)	SHEET 264	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C (35TH STREET)	SHEET 265	E

2

W. WISCONSIN AVENUE

N. 35TH STREET

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

ROAD CLOSED
R11-2
48" X 30"

W01-6
48" X 24"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

W01-4R

SIDEWALK CLOSED
R9-9
24" X 12"

MATCH LINE - A

1/4 sec line

+56 148.6 RT

+56 19.0 RT

10.5'

10.5'

7.5'

+65 122.4 RT

225' LANE DROP

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

SIDEWALK CLOSED USE OTHER SIDE
R9-11
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

TEMPORARY BUS LOADING ZONE
TEMPORARY CURB RAMP REQUIRED

+70 19.0 RT

SIDEWALK CLOSED USE OTHER SIDE
R9-11
24" X 12"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY BUS STOP LOCATION

125' TURN LANE

50'

50'

180' LANE DROP

200'

400'

400'

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) (2' LINE 6' GAP)

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

500'

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

W01-3L

15 M.P.H.
W013-1
24" X 24"

W04-2R

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

W01-6
48" X 24"

END ROAD WORK
G20-2A
48" X 24"

LEGEND

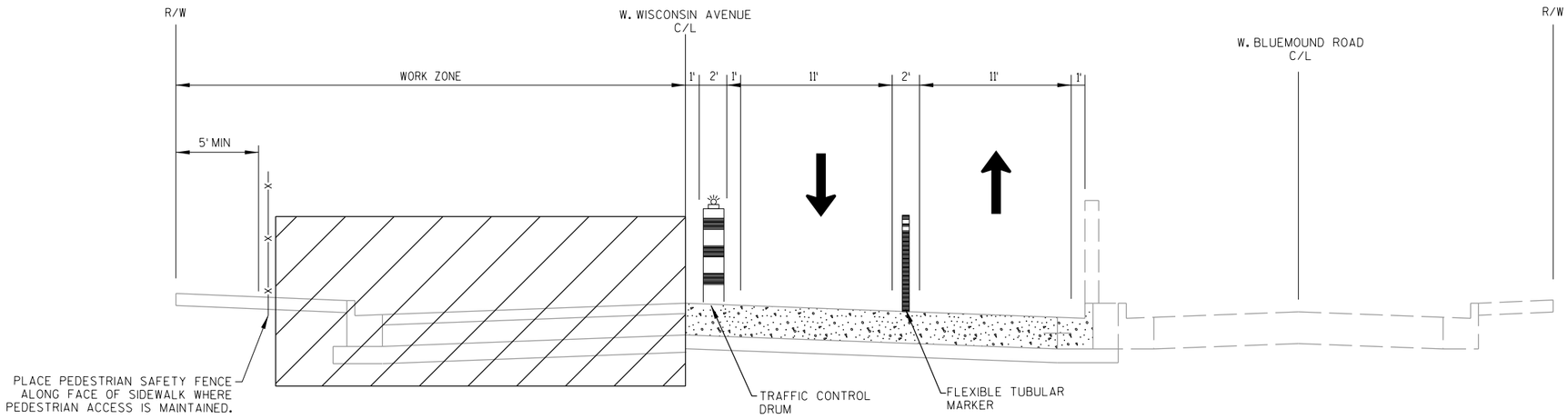
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1C (35TH STREET)	SHEET 266	E

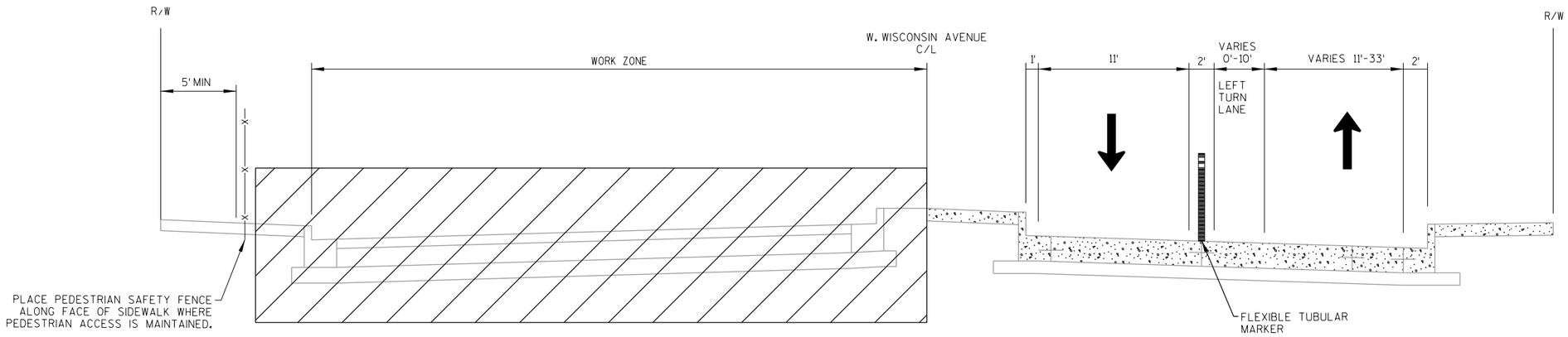
2



STAGE 2

W. WISCONSIN AVENUE

STA. 17+23 TO STA. 21+00



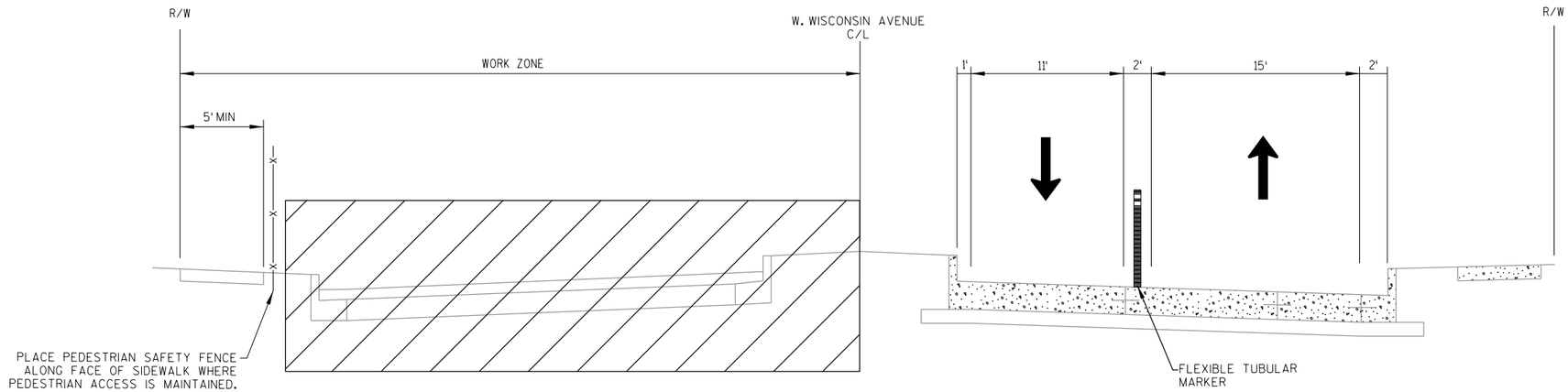
STAGE 2

W. WISCONSIN AVENUE

STA. 21+00 TO STA. 32+65.50

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 2	SHEET 267	E

2



STAGE 2

W. WISCONSIN AVENUE

STA. 103+65.50 TO STA. 127+00

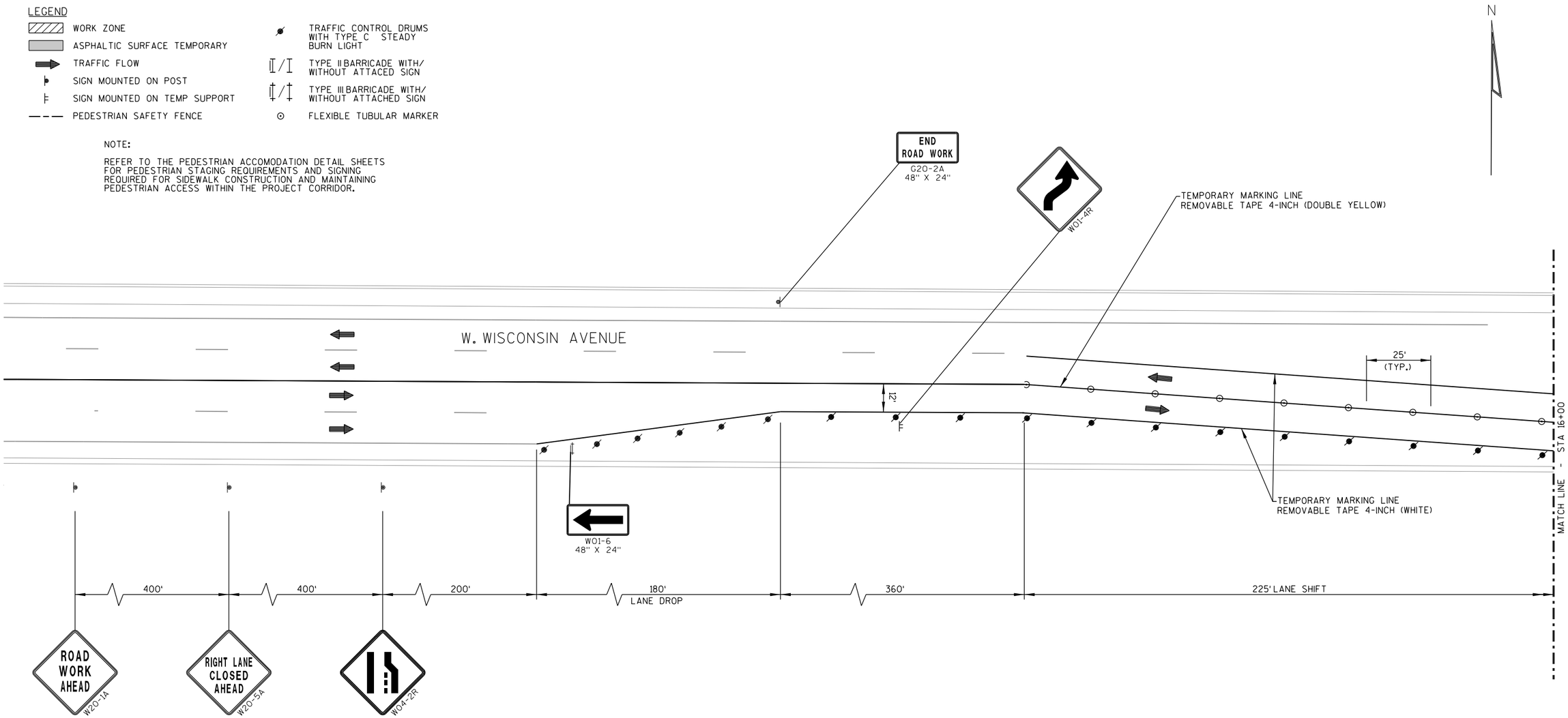
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 2	SHEET 268	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



2

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 269	E

2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

#3846 #3820 #3808 #3742

N

W01-4R

TEMPORARY BUS STOP
TEMPORARY CURB RAMP REQUIRED

MAINTAIN ACCESS TO DRIVEWAY

MAINTAIN ACCESS TO DRIVEWAY

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

PEDESTRIAN SAFETY FENCE (TYPICAL)

ASPH. CONC. RR TIE BORDER ASPH. RR TIE BORDER ASPH. RR TIE BORDER ENT

MATCH LINE - STA 16+00

12'
14'

25' (TYP.)

N.89°01'02"e.

17 18 19 20 21 22

W. WISCONSIN AVENUE

CONC PARAPET WALL CONC PARAPET WALL

MATCH LINE - STA 22+00

225' LANE SHIFT

W06-3
36" X 36"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

W. BLUEMOUND ROAD

0.4 OVERHANG 0.3 OVERHANG 0.7 OVERHANG FULL CW W/INT C&G

RR TIES & PLYWOOD WALL LAWN

LAWN LAWN

WOOD BOX

ASPH. PARKING

#3801

P.L.

BUSHES @ HIGH CW

LAWN

SAP

500'

11" 15" 15"

N. 38TH STREET

ASPH. PARKING

B.M. NW BOLT HYD SW CORNE
N. 38TH ST. & W. WISCONSI
STA. 21+47 - 35'RT.
ELEV. 96.72

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

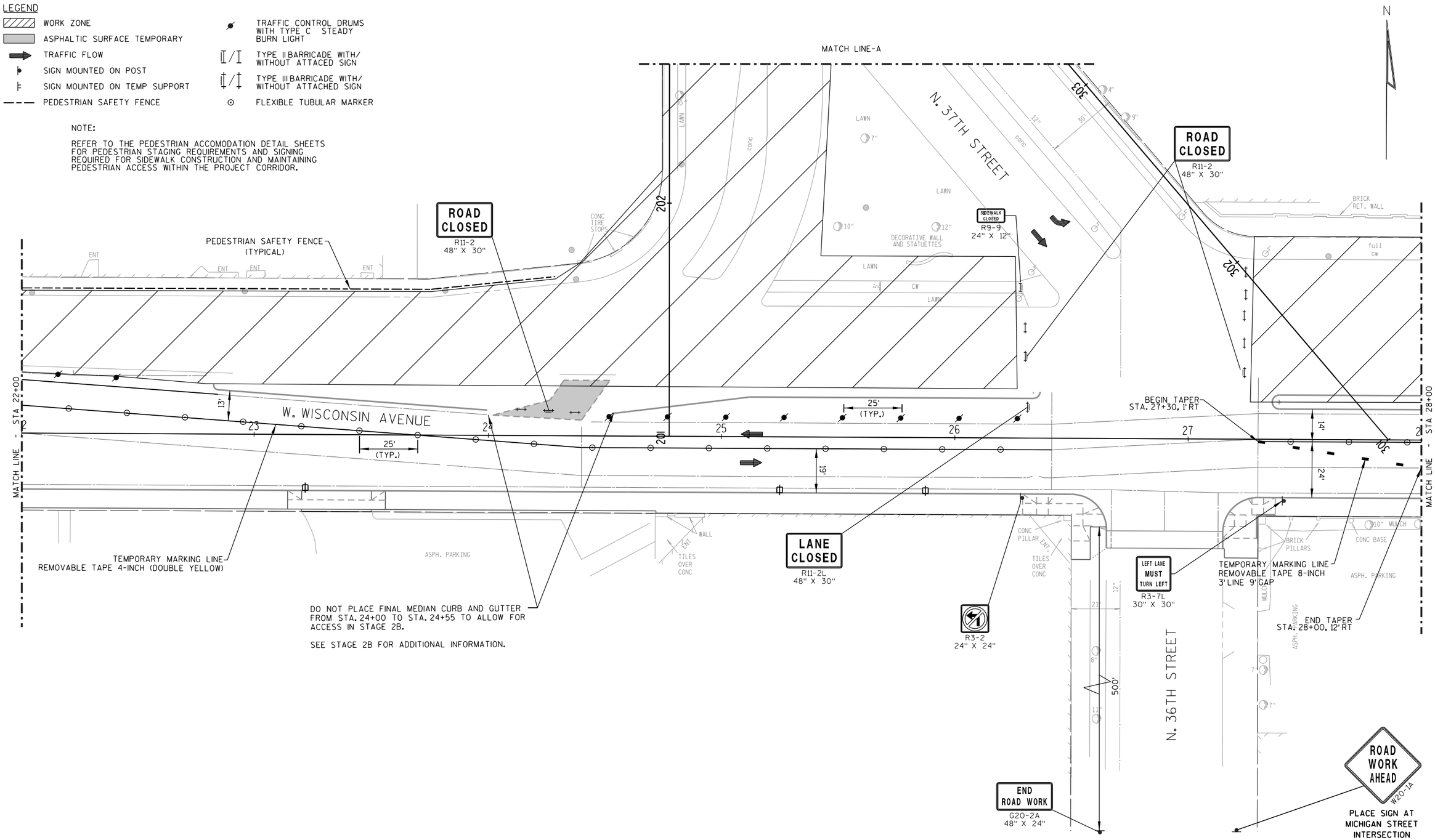
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 270	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 271	E

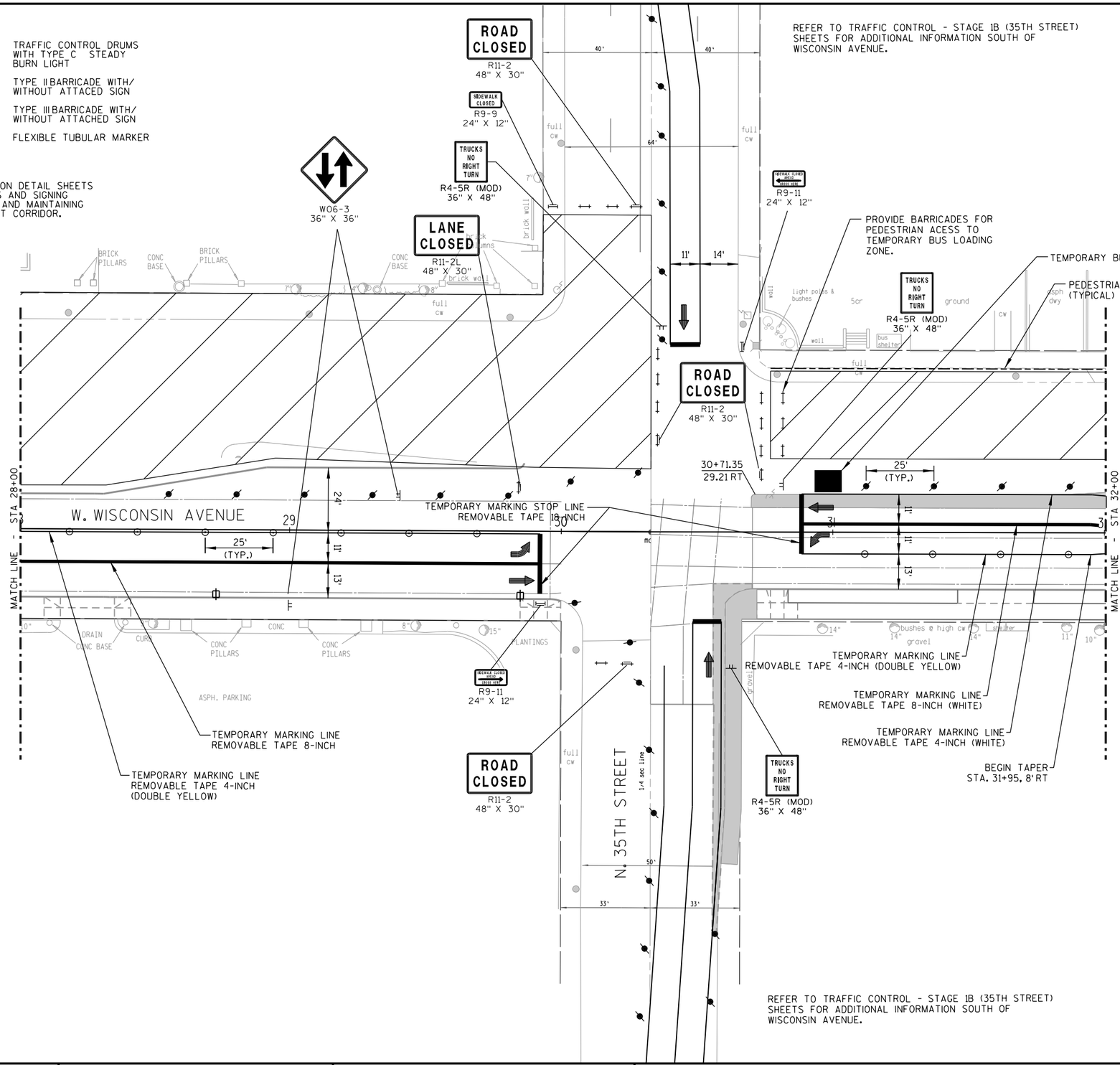
2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



REFER TO TRAFFIC CONTROL - STAGE 1B (35TH STREET) SHEETS FOR ADDITIONAL INFORMATION SOUTH OF WISCONSIN AVENUE.

REFER TO TRAFFIC CONTROL - STAGE 1B (35TH STREET) SHEETS FOR ADDITIONAL INFORMATION SOUTH OF WISCONSIN AVENUE.

N

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 272	E

2

STA. 32+65.50 = STA. 105+65.50

PROJECT 2190-00-71 | PROJECT 2190-00-70

ROAD CLOSED AHEAD
W20-3A
PLACE SIGN AT WELLS STREET INTERSECTION

60'
30'
END ROAD WORK
G20-2A
48" X 24"

N. 34TH STREET
500'

ROAD CLOSED
R11-2
48" X 30"

R3-1
24" X 24"

PEDESTRIAN SAFETY FENCE (TYPICAL)

W06-3
36" X 36"

N

STA. 32+00 = 105+00 MATCH LINE

+43
12.2 LT

106 +50 107 +50 108 +50 109 +50 110 +50 111

W. WISCONSIN AVENUE

25' (TYP.)

13'
18'

STA 111+00 MATCH LINE

END TAPER
STA. 105+70, 3" RT

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH (WHITE)
3'LINE 9'GAP

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

R3-2
24" X 24"

W06-3
36" X 36"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

2

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

ROAD CLOSED
R11-2
48" X 30"

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

PEDESTRIAN SAFETY FENCE (TYPICAL)

TEMPORARY BUS LOADING ZONE. PROVIDE BARRICADES TO PROVIDE PATHWAY TO LOADING ZONE.

R3-2
24" X 24"

N. 32ND STREET

N. 31ST STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 111+00

MATCH LINE - STA 117+00

+50 112 +50 113 +50 114 +50 115 +50 116 +50 117

25' (TYP.)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

W6-3
36" X 36"

R3-1
24" X 24"

BUS STOP DISCONTINUED DURING CONSTRUCTION

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 274	E

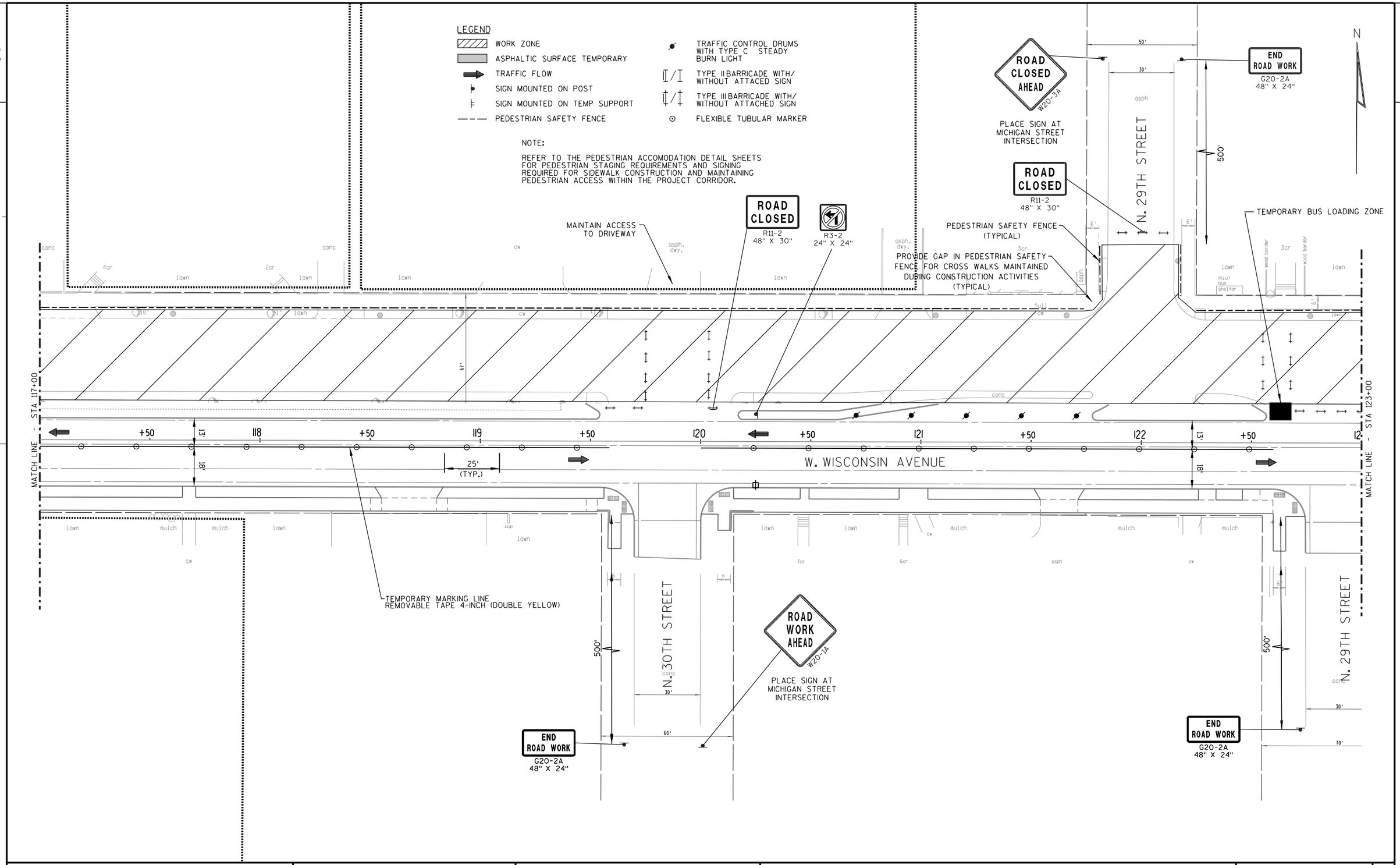
2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

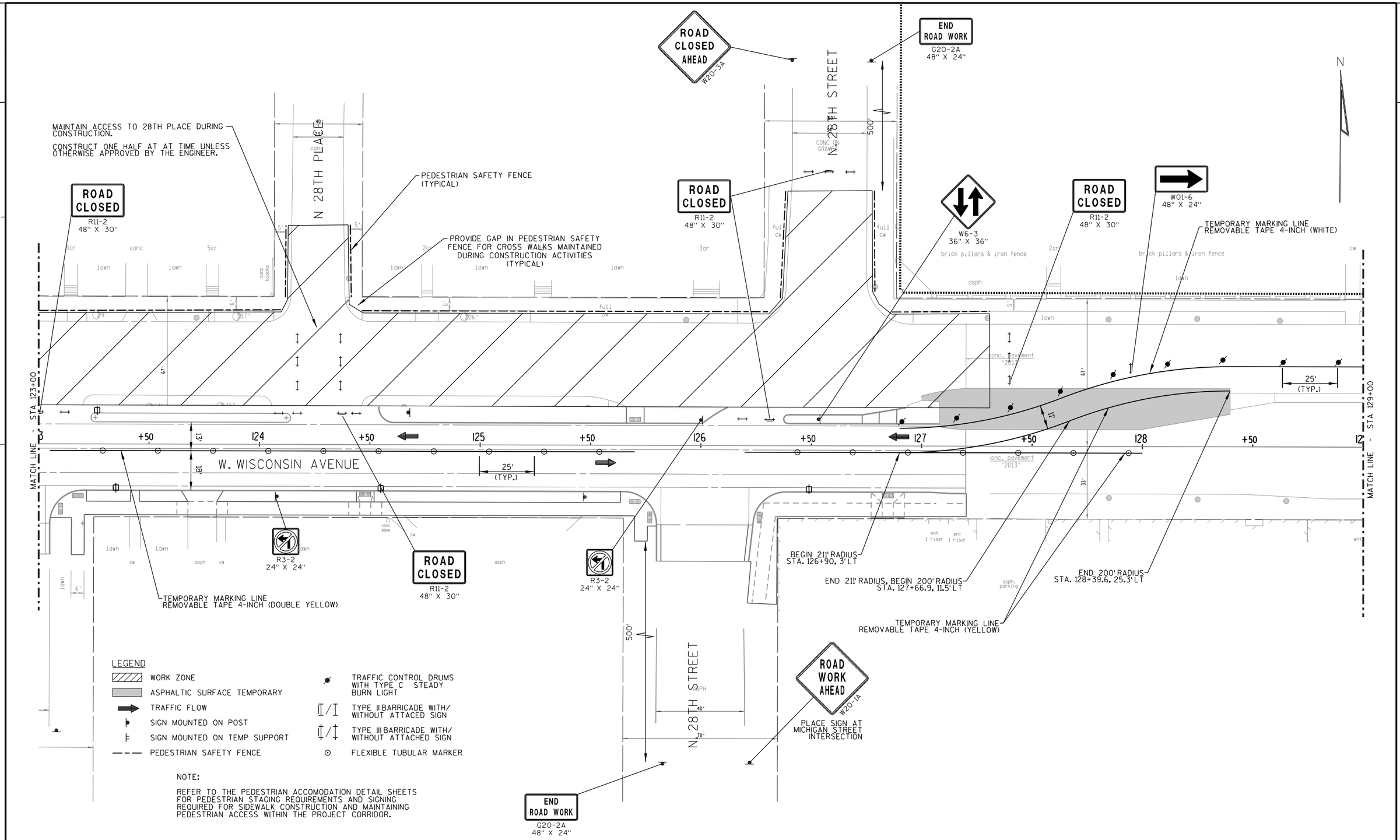
NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 275	E

2



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 276	E

2

N

ROAD WORK AHEAD
W20-1A

ROAD CLOSED
R11-2
48" X 30"

brick pillars & iron fence

N. 27TH STREET

33' 33'

50'

500'

389-0120-110
95

END ROAD WORK
G20-2A
48" X 24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

75' 75' 25' 150' LANE DROP

200' 400' 400'

76'

40'

W04-2R

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

asph curb asph 2cr 2cr

bus shelter

lawn monotube lawn lawn

full cw

bus stop

gravel ent

conc. pavement "2013"

W. WISCONSIN AVENUE

conc

WO1-6
48" X 24"

MATCH LINE - STA 129+00

129 +50 130 +50 131 +50 132 +50 133 +50 134 +50 13

1/4 sec line 1/4 sec line

179°51'07"

mon.

WO1-3L

20 M.P.H.
WO13-1
24" X 24"

section line

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

ped curb

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

N. 26TH STREET

33'

66'

terrace area iron fence planter curb 2cr

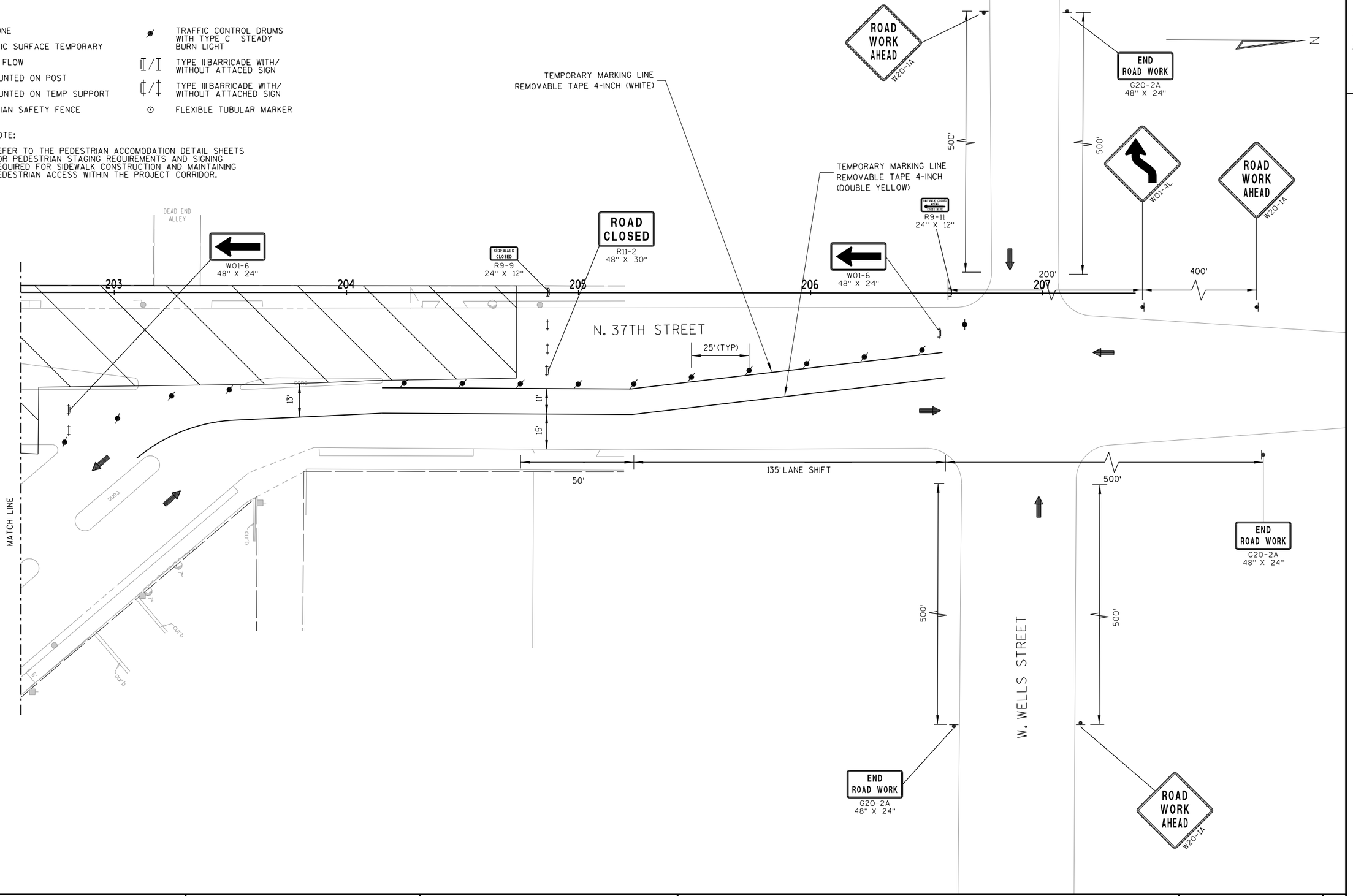
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A	SHEET 277	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



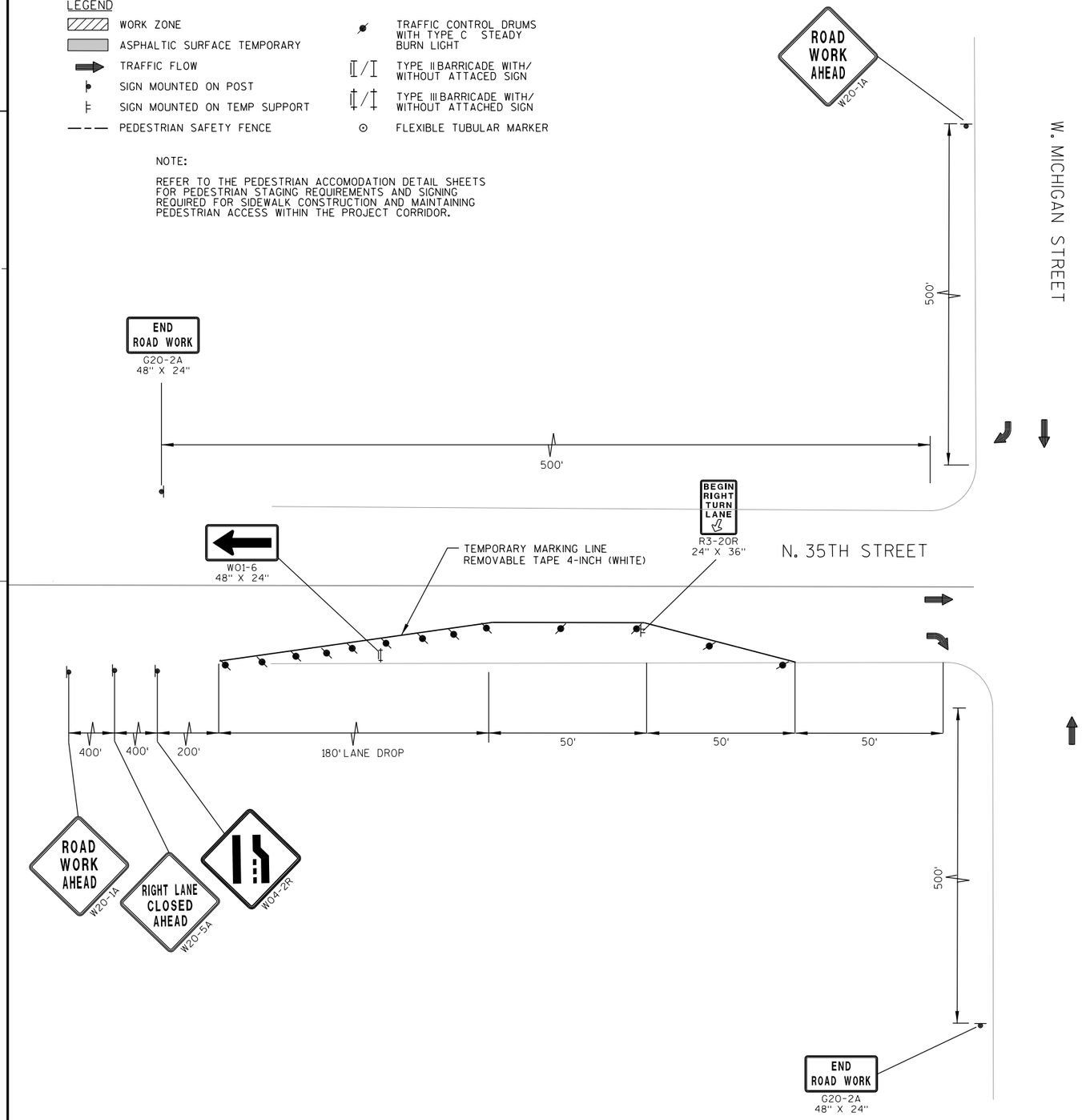
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A (37TH STREET)	SHEET 278	E

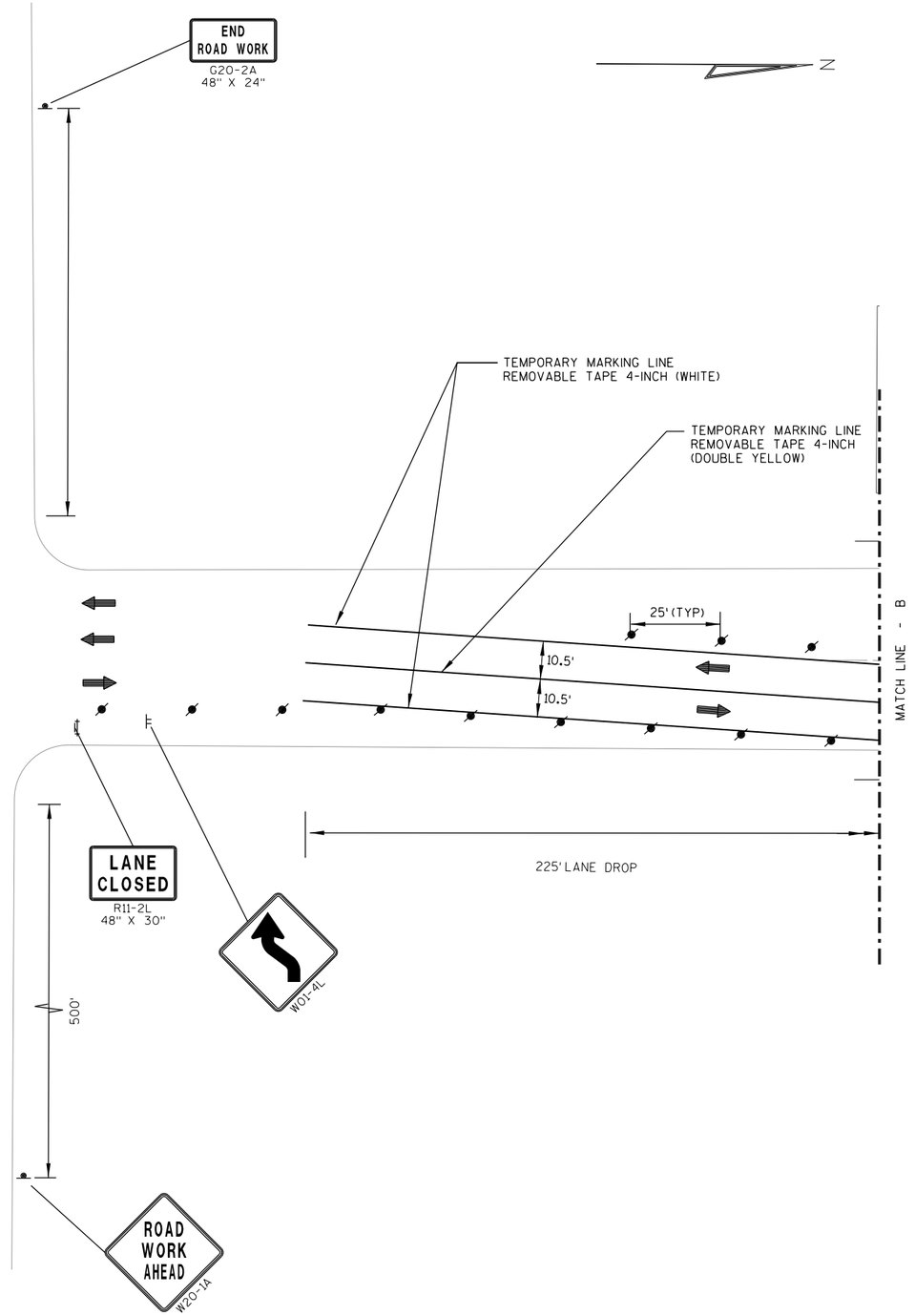
LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.





2

N

W. WISCONSIN AVENUE

N. 35TH STREET

MATCH LINE - B

MATCH LINE - C

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)
TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH
(DOUBLE YELLOW)

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED AHEAD USE OTHER SIDE
R9-11
24" X 12"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED
R11-2
48" X 30"

W01-6
48" X 24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

TEMPORARY BUS STOP
TEMPORARY CURB RAMP REQUIRED

25'(TYP)

10.5'
10.5'
7.5'

225' LANE DROP

TEMPORARY BUS STOP

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY MARKING STOP LINE
REMOVABLE TAPE 18-INCH

11'
14'

95'

160' LANE SHIFT

W01-4L

SIDEWALK CLOSED AHEAD USE OTHER SIDE
R9-11
24" X 12"

PEDESTRIAN SAFETY FENCE
(TYPICAL)

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY BUS STOP

LEGEND

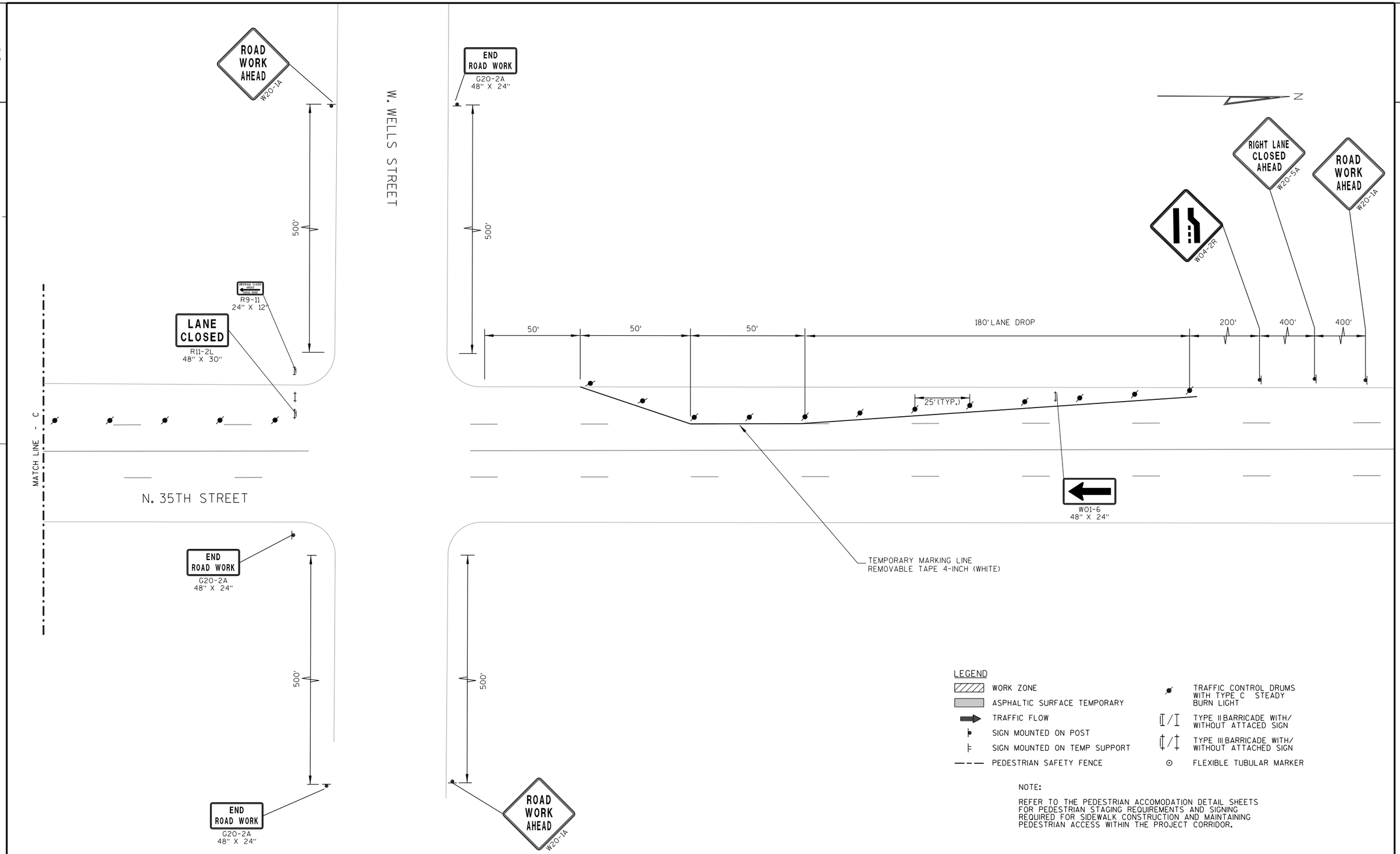
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A (35TH STREET)	SHEET 280	E

2



LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

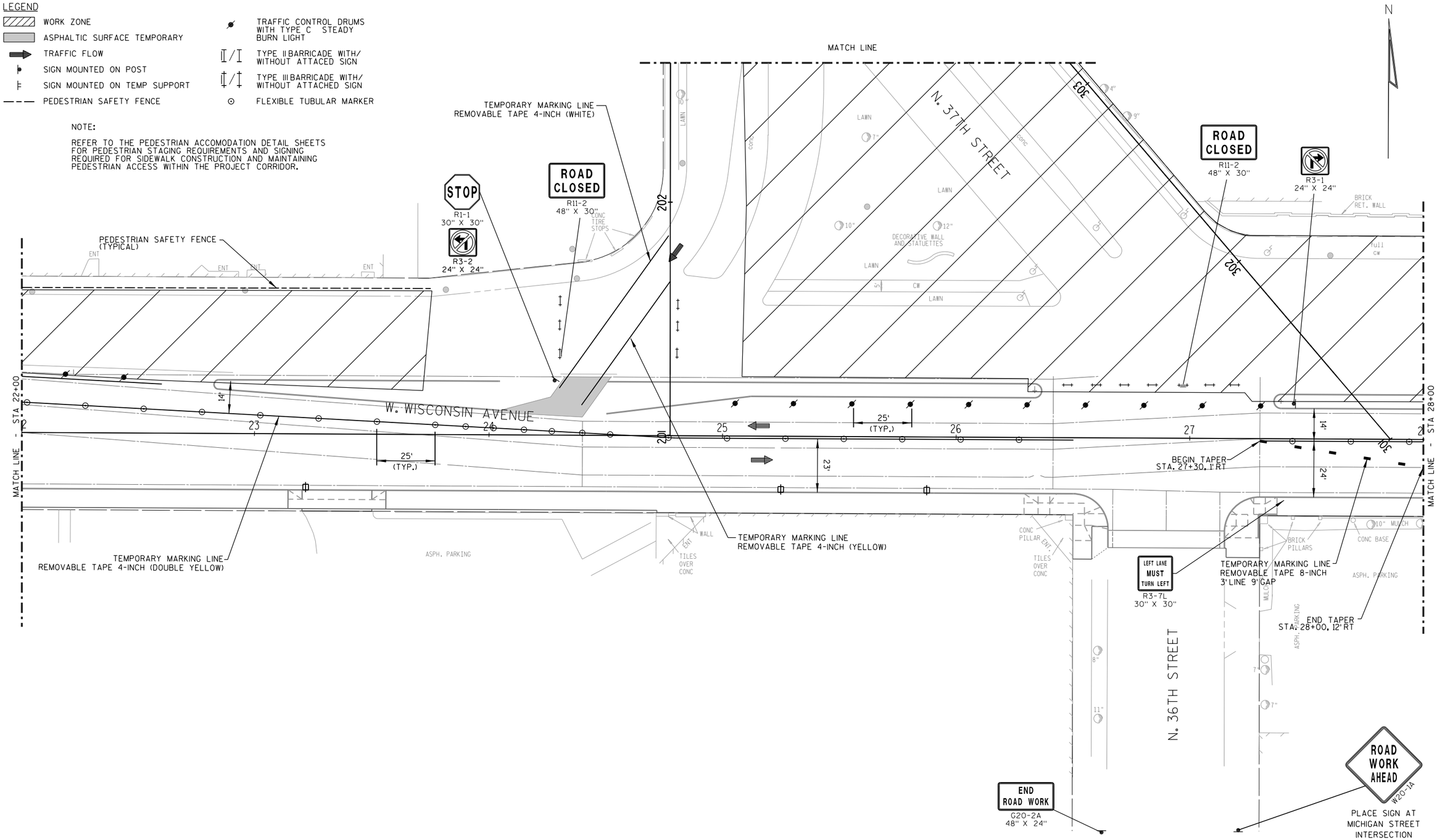
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2A (35TH STREET)	SHEET 281	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



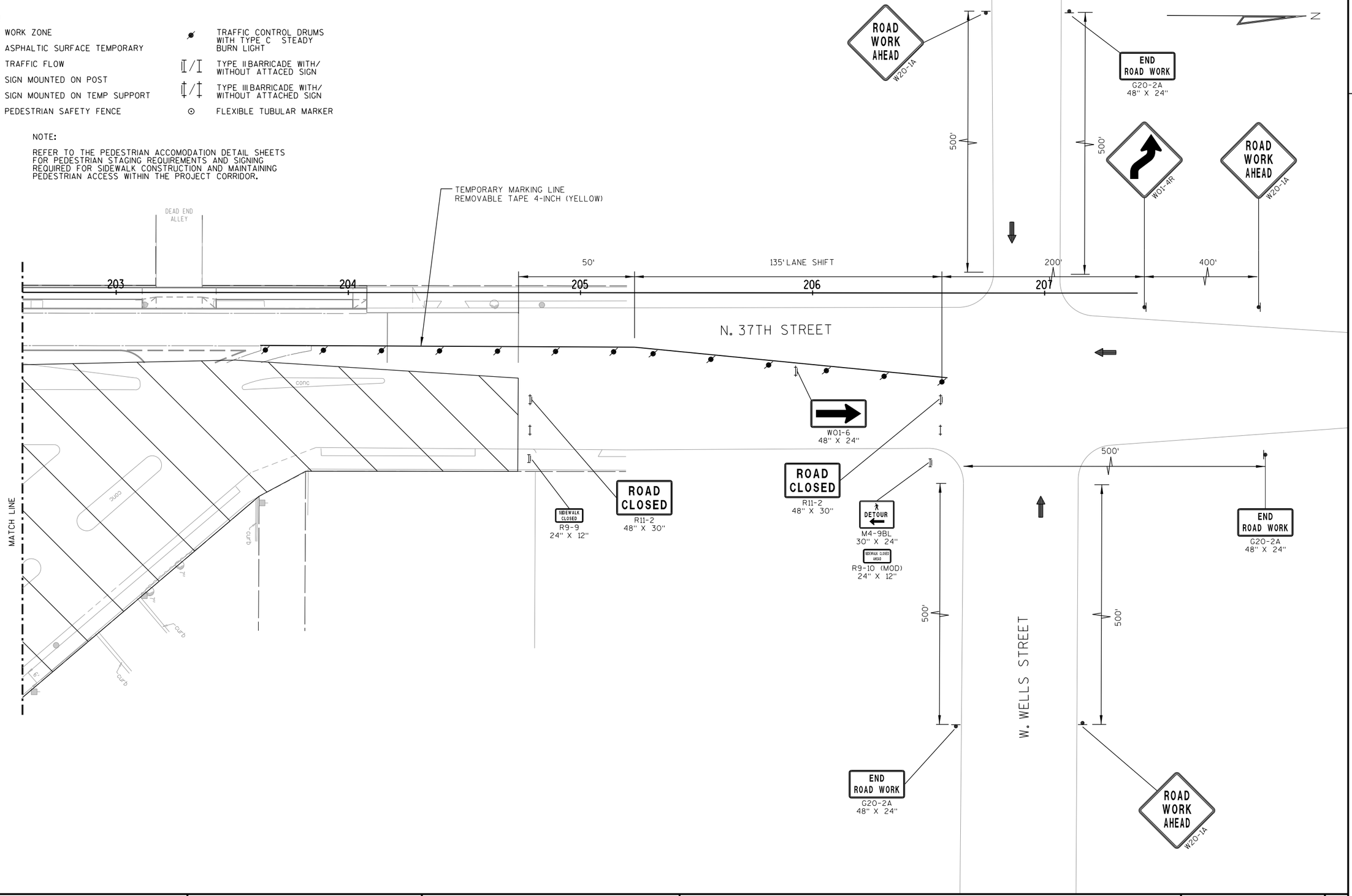
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B (37TH STREET)	SHEET 282	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B (37TH STREET)	SHEET 283 E

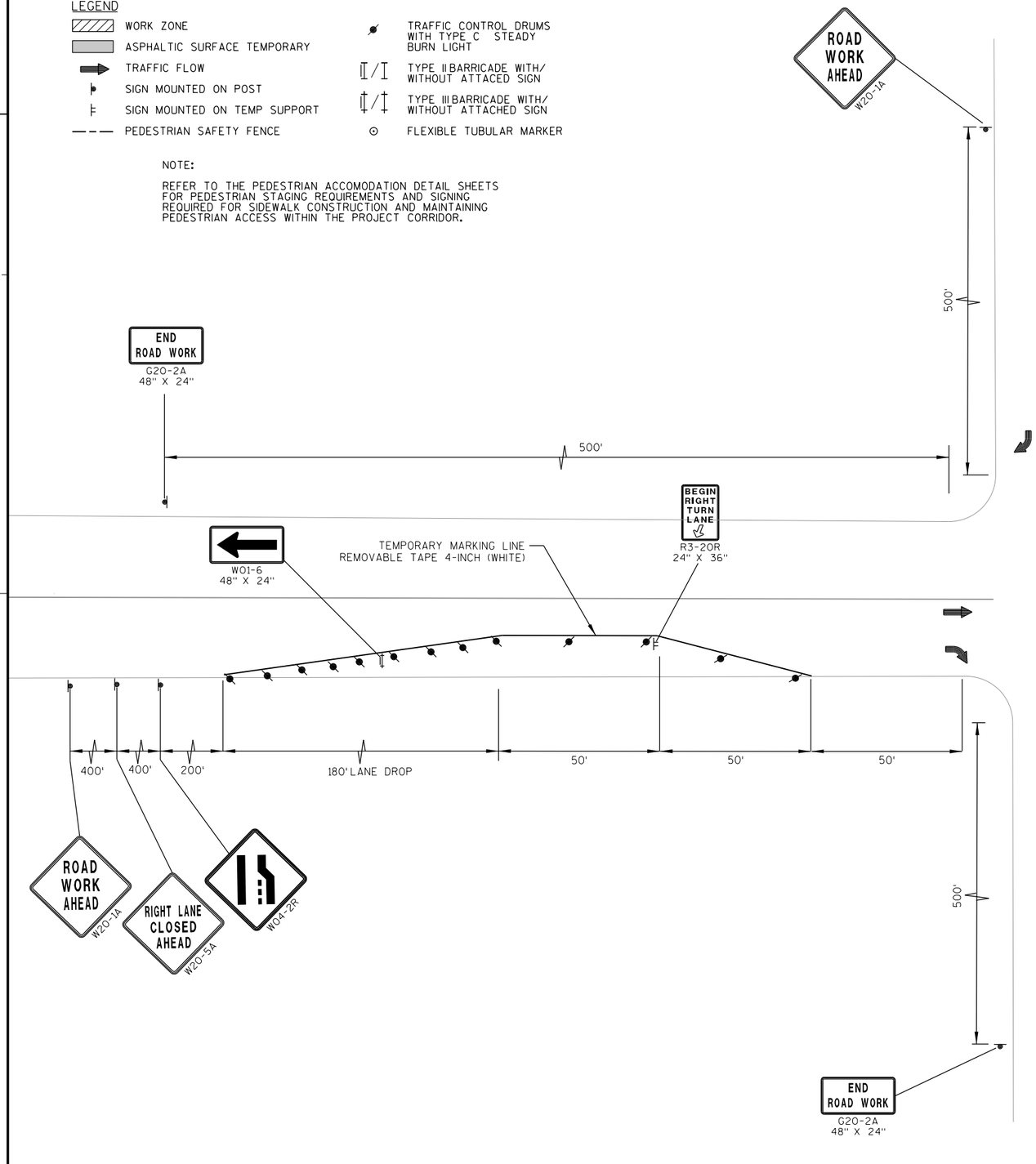
2

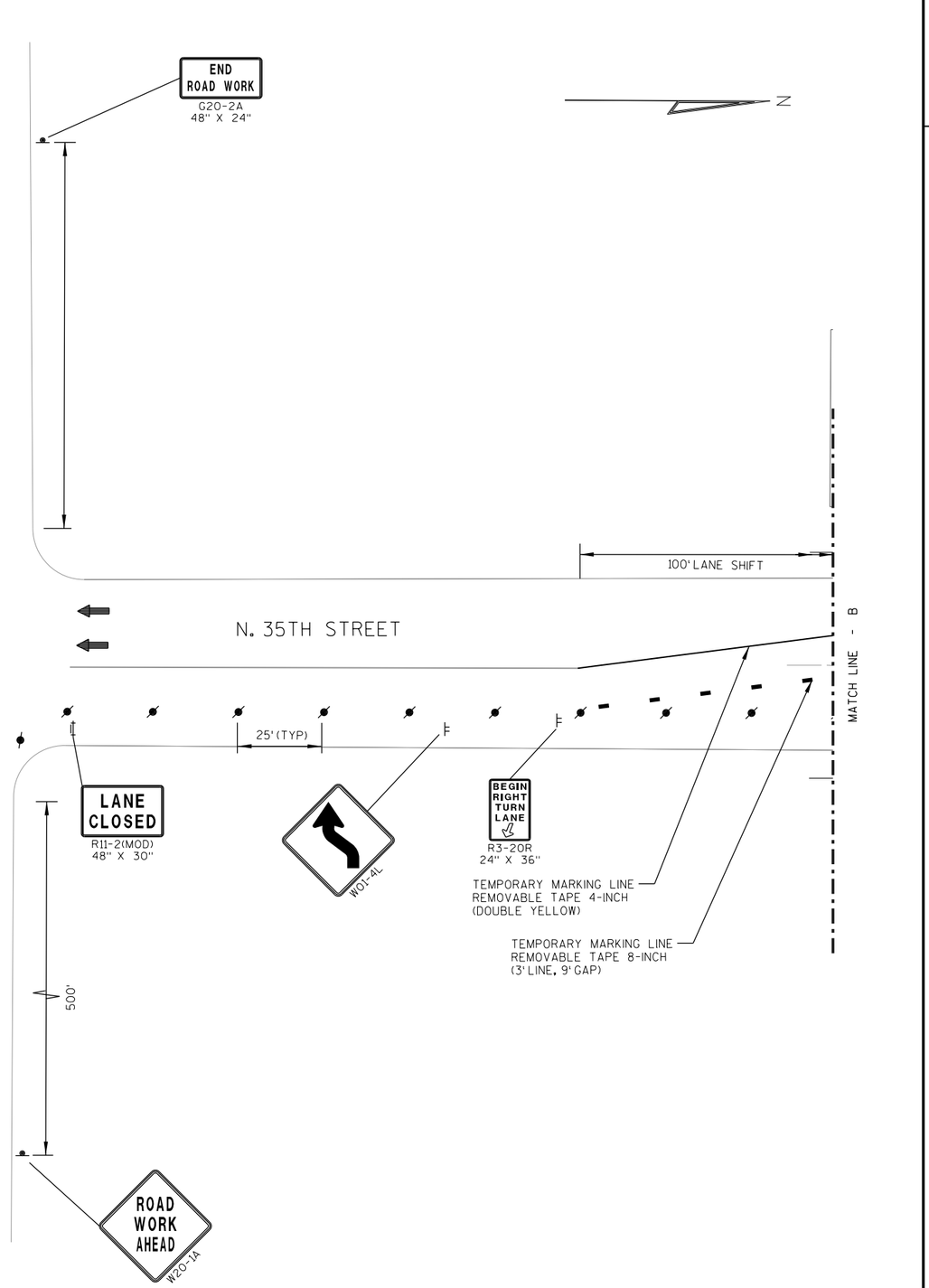
LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.





PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B (35TH STREET)	SHEET 284	E

2

N

W. WISCONSIN AVENUE

N. 35TH STREET

MATCH LINE - B

MATCH LINE - C

LANE CLOSED
R11-2L
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

TRUCKS NO RIGHT TURN
R4-5R (MOD)
36" X 48"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH
(DOUBLE YELLOW)

TEMPORARY MARKING STOP LINE
REMOVABLE TAPE 18-INCH

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH

R9-11
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

TEMPORARY BUS LOADING ZONE

190' LANE SHIFT

165' LANE SHIFT

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY BUS LOADING ZONE.
TEMPORARY CURB RAMP REQUIRED.

25'(TYP)

LEGEND

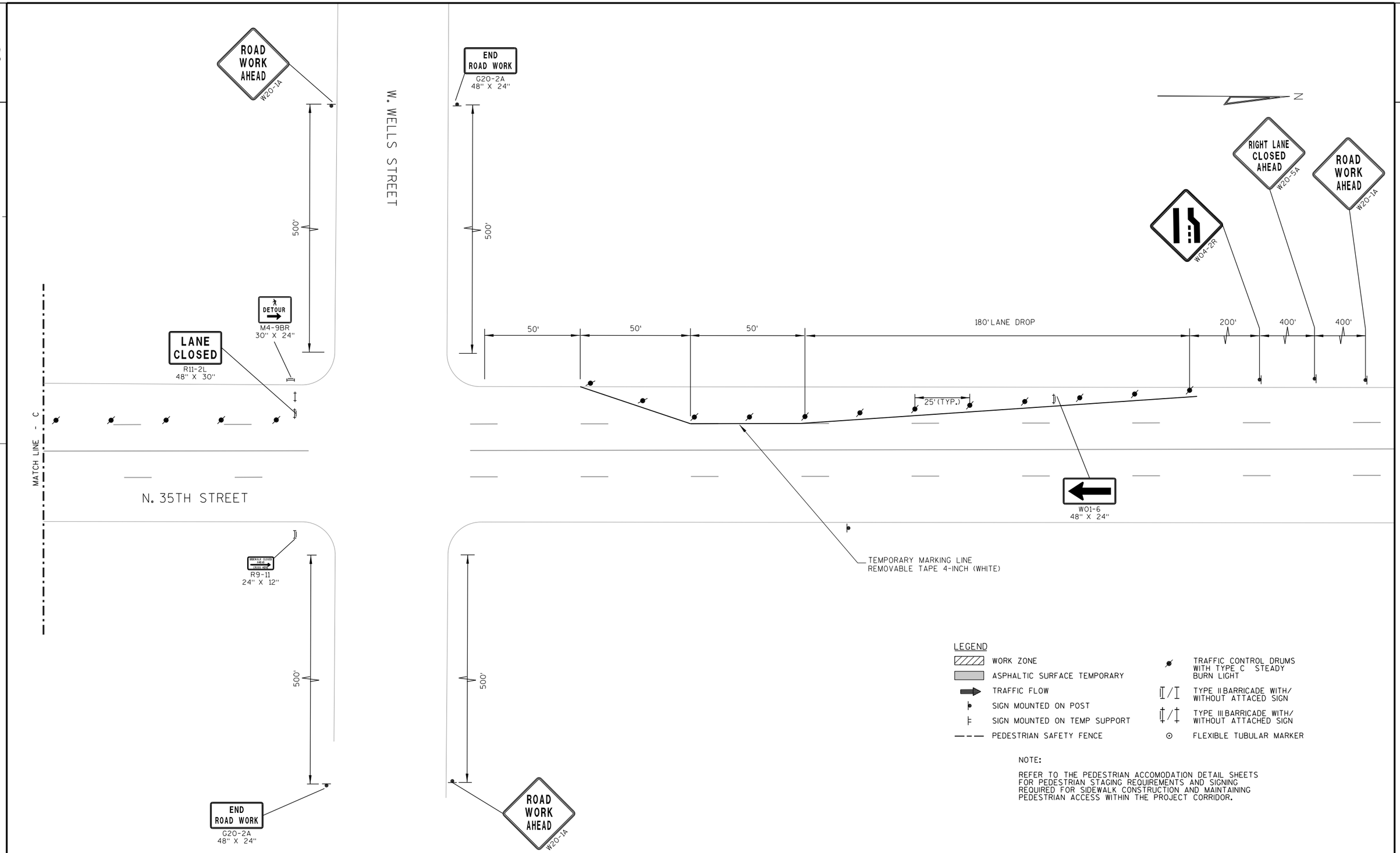
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B (35TH STREET)	SHEET 285	E

2



LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2B (35TH STREET)	SHEET 286	E

2

N

END
ROAD WORK
G20-2A
48" X 24"

500'

WO1-6
48" X 24"

ASPH. CONC. RR TIE BORDER ASPH. RR TIE BORDER ASPH. RR TIE BORDER ENT

℄

W. WISCONSIN AVENUE

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

N.89°01'02"e.

17 18 19 20 21

CONC PARAPET WALL

400' 400' 200'

180' LANE SHIFT

CONC PARAPET WALL

W. BLUEMOUND ROAD

0.4 OVERHANG 0.3 OVERHANG 0.7 OVERHANG FULL CW W/INT C&G

RR TIES & PLYWOOD WALL

LAWN

LAWN LAWN

WOOD BOX

ASPH. PARKING

ASPH. PARKING

MATCH LINE - STA 22+00

ROAD WORK AHEAD
W20-1A

W04-2L

LEFT LANE CLOSED AHEAD
W20-5A

BUSHES @ HIGH CW

500'

N. 38TH STREET

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

END
ROAD WORK
G20-2A
48" X 24"

LEGEND

▨	WORK ZONE	✎	TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
▭	ASPHALTIC SURFACE TEMPORARY	I/I	TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
➡	TRAFFIC FLOW	‡/‡	TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
⊢	SIGN MOUNTED ON POST	⊙	FLEXIBLE TUBULAR MARKER
⊢	SIGN MOUNTED ON TEMP SUPPORT		
– – –	PEDESTRIAN SAFETY FENCE		

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

#3716 TO 3732

MIDAS
#3706

ROAD WORK AHEAD
W20-1A

500'

END ROAD WORK
G20-2A
48" X 24"

500'

CONC TIRE STOPS

202

ENT

ENT

ENT

ENT

W. WISCONSIN AVENUE

N. 37TH STREET

END ROAD WORK
G20-2A
48" X 24"

500'

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

LANE CLOSED
R11-2L
48" X 30"

BRICK RET. WALL

MATCH LINE - STA 22+00

23

24

25

20

25'
(TYP.)

26

40'

27

MATCH LINE - STA 28+00

PLACE FINAL MEDIAN CURB & GUTTER

ASPH. PARKING

WALL

ENT

TILES OVER CONC

W012-1D
24" X 24"

LANE CLOSED
R11-2L
48" X 30"

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

CONC PILLAR

ENT

TILES OVER CONC

LAWN

12"

21'

8"

α

11'

500'

N. 36TH STREET

BRICK PILLARS

10" MULCH

CONC BASE

ASPH. PARKING

MULCH

ASPH. PARKING

W01-6
48" X 24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

7"

7"

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET 288	E

2

N

MAINTAIN SAME TRAFFIC CONTROL
AS STAGE 2B TO THE NORTH.

W01-6
48" X 24"

ROAD CLOSED
R11-2
48" X 30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH

LANE CLOSED
R11-2L
48" X 30"

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

LANE CLOSED
R11-2L
48" X 30"

R9-11
24" X 12"

MATCH LINE - STA 28+00

MATCH LINE - STA 32+00

W. WISCONSIN AVENUE

N. 35TH STREET

WO12-1D
24" X 24"

LANE CLOSED
R11-2L
48" X 30"

R9-11
24" X 12"

W01-6
48" X 24"

CONSTRUCT TURN LANE PAVEMENT
AND MEDIAN CURB & GUTTER.

CONSTRUCT FINAL CURB & GUTTER
AND SIDEWALK.

SIDEWALK CLOSED
R9-9
24" X 12"

LANE CLOSED
R11-2L
48" X 30"

TEMPORARY BUS STOP

MAINTAIN SAME TRAFFIC CONTROL
AS STAGE 2B TO THE SOUTH.

R9-11
24" X 12"

PLACE SIGN AT
MICHIGAN STREET

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET 289	E

SEE PROJECT 2190-00-71
FOR ADDITIONAL INFORMATION

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 34TH STREET

LANE CLOSED
R11-2L
48" X 30"

W04-2L

LEFT LANE CLOSED AHEAD
W20-5A

TEMPORARY MARKING LINE
REMOVABLE TAPE 8-INCH (3' LINE 9' GAP)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

180' LANE DROP

25' (TYP.)

200'

400'

W. WISCONSIN AVENUE

MATCH LINE - STA 32+00

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

WO1-6
48" X 24"

PROJECT 2190-00-71 | PROJECT 2190-00-70

STA. 32+65.50 = STA. 105+65.50

LEGEND

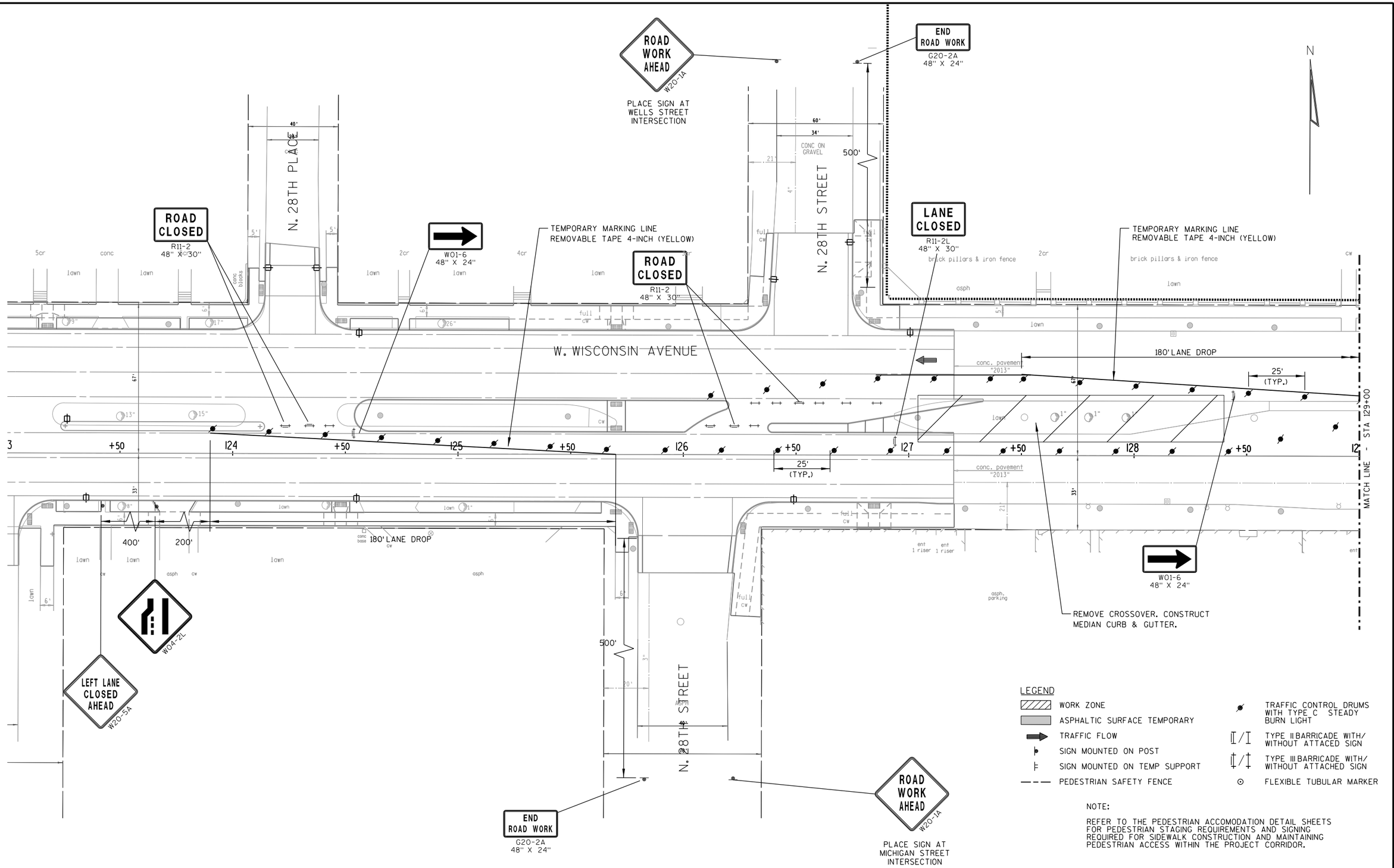
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70/2190-00-71	HWY: WISC. AVE. / USH 18	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET 290	E

2



LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET 291	E

2

ROAD WORK AHEAD W20-1AA

33' 33'

END ROAD WORK G20-2A 48" X 24"

50'

500'

N. 27TH STREET

full cw

W04-2L

LEFT LANE CLOSED AHEAD W20-5A

76'

40'

asph or conc

N. 26TH STREET

ROAD WORK AHEAD W20-1AA

N

brick pillars & iron fence

asph

bus stop

200'

400'

400'

6'

lawn

monotube

asph

curb

bus shelter

2cr

gravel

ent

cw

full cw

7"

1"

9"

12"

6"

180' LANE DROP

conc

W. WISCONSIN AVENUE

67'

conc. pavement "2013"

wep

TEL

MATCH LINE - STA 129+00

9

1/4 sec line

+50

179°51'07"

130

mon.

131

132

133

134

13

full cw

bus stop

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

trap door

hollow cw

500'

section line

52'

35'

33'

33'

monotube

lawn

ped curb

bus shelter

6"

1"

full cw

iron fence

terrace area

planter

curb

2cr

6' cw

conc

33'

66'

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1AA

END ROAD WORK G20-2A 48" X 24"

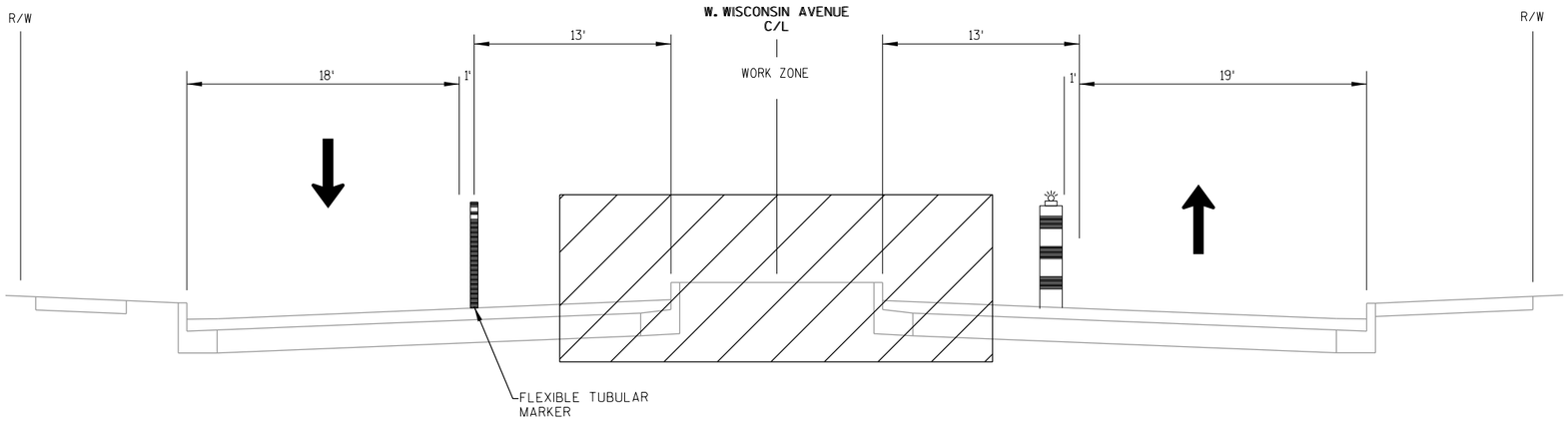
LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

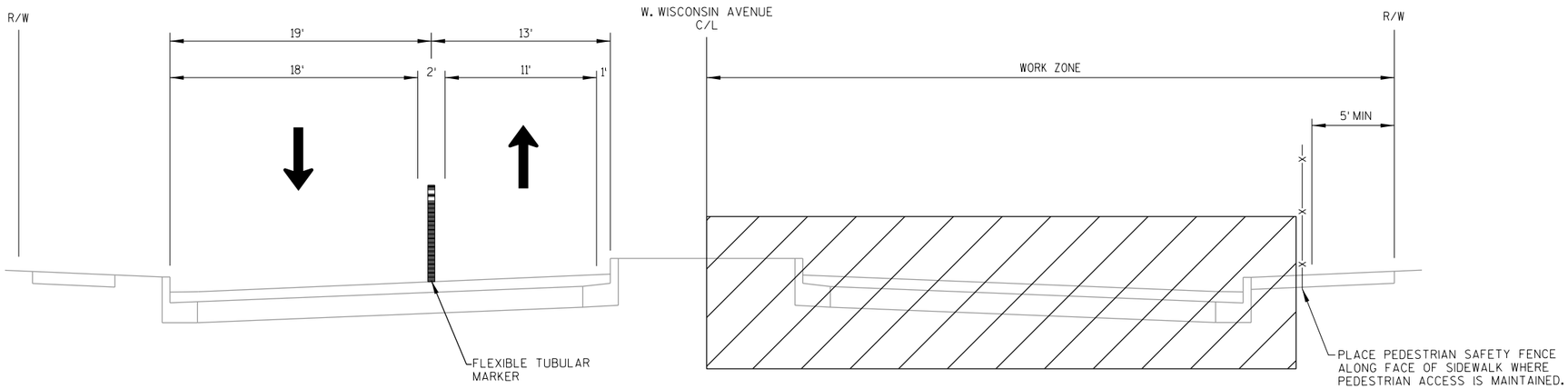
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2C	SHEET 292	E



STAGE 3A

W. WISCONSIN AVENUE

STA. 134+00 TO STA. 156+00



STAGE 3B

W. WISCONSIN AVENUE

STA. 134+00 TO STA. 156+00

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 3	SHEET 293	E

2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

NOTE:
SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, LANE CLOSURE" FOR ADDITIONAL INFORMATION.

ROAD WORK AHEAD W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1A

LEFT LANE CLOSED AHEAD W20-5A

W04-2L

ROAD WORK AHEAD W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

LANE CLOSED R11-2L conc 48" X 30"

TEMPORARY MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)

N. 27TH STREET

N. 26TH STREET

W. WISCONSIN AVENUE

MATCH LINE - STA 135+00

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET 294	E

2

grand avenue school

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

N

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 25TH STREET

60'
32'
500'

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

W01-6
48" X 24"

W. WISCONSIN AVENUE

25'
(TYP.)

MATCH LINE - STA 135+00

MATCH LINE - STA 141+00

TEMPORARY MARKING LINE
PAINT 4-INCH (YELLOW)

180' LANE DROP

LANE CLOSED
R11-2L
48" X 30"

REMOVE MEDIAN CURB & GUTTER. PLACE 5" TEMPORARY ASPHALT OVER 10" BASE AGGREGATE DENSE 1¼-INCH FOR DRIVEWAY ACCESS.

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET 295	E

2

ROAD WORK AHEAD W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

N. 24TH STREET

TEMPORARY MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)

AMBASSADOR HOTEL

ROAD WORK AHEAD W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

N. 23RD STREET

END ROAD WORK G20-2A 48" X 24"

W. WISCONSIN AVENUE

LANE CLOSED R11-2L 48" X 30"

ROAD CLOSED R11-2 48" X 30"

LANE CLOSED R11-2L 48" X 30"

ROAD WORK AHEAD W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

LANE CLOSED R11-2L 48" X 30"

ROAD WORK AHEAD W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

MATCH LINE - STA 141+00

MATCH LINE - STA 147+00

+50 142 +50 143 +50 144 +50 145 +50 146 +50

1/4 sec line

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET 296	E

2

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 22ND STREET

N. 21ST STREET

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

W. WISCONSIN AVENUE

25' (TYP.)

N

MATCH LINE - STA 147+00

MATCH LINE - STA 153+00

REMOVE MEDIAN CURB & GUTTER. PLACE 5" TEMPORARY ASPHALT OVER 10" BASE AGGREGATE DENSE 1¼-INCH FOR DRIVEWAY ACCESS.

LANE CLOSED
R11-2L
48" X 30"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

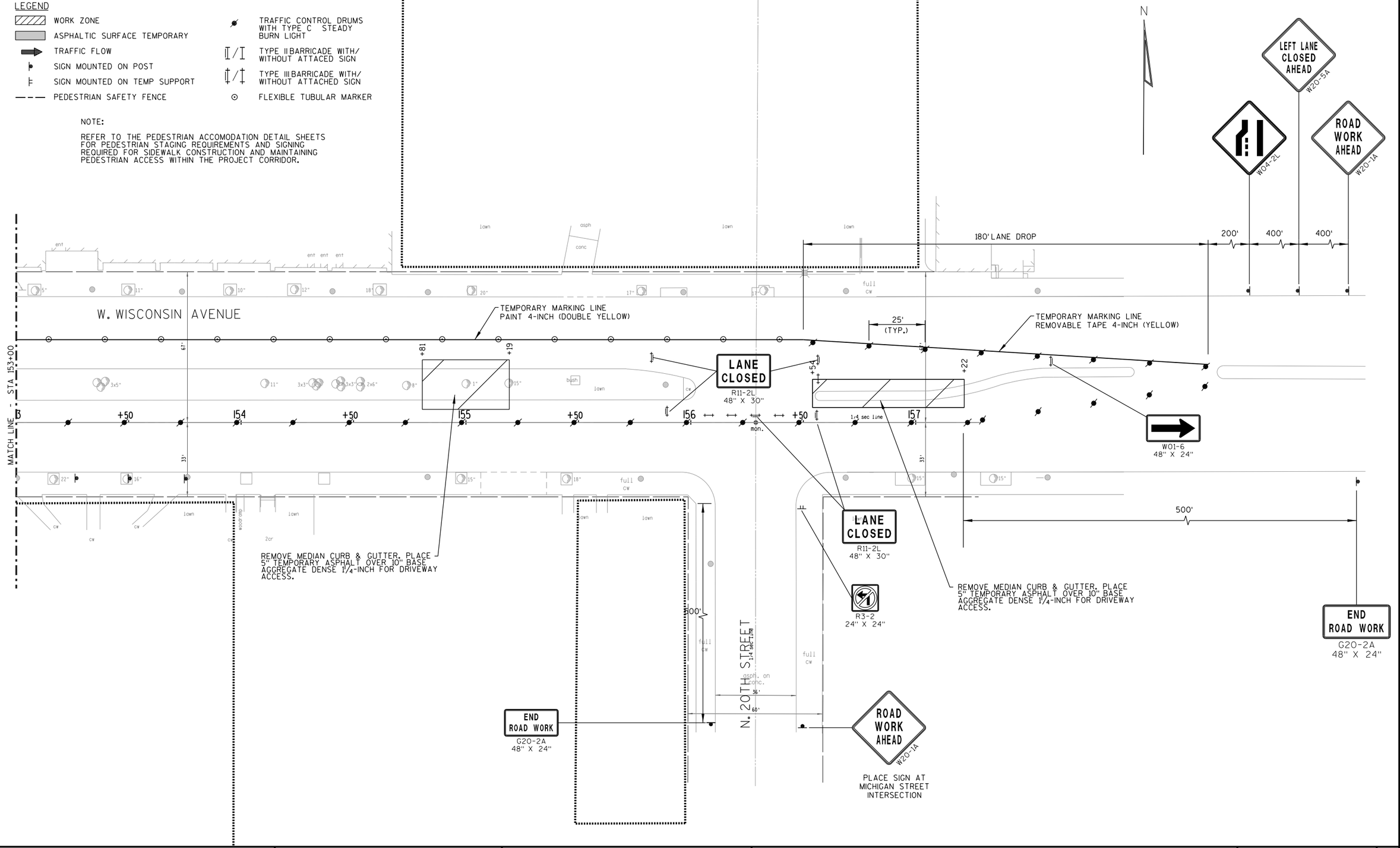
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET 297	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

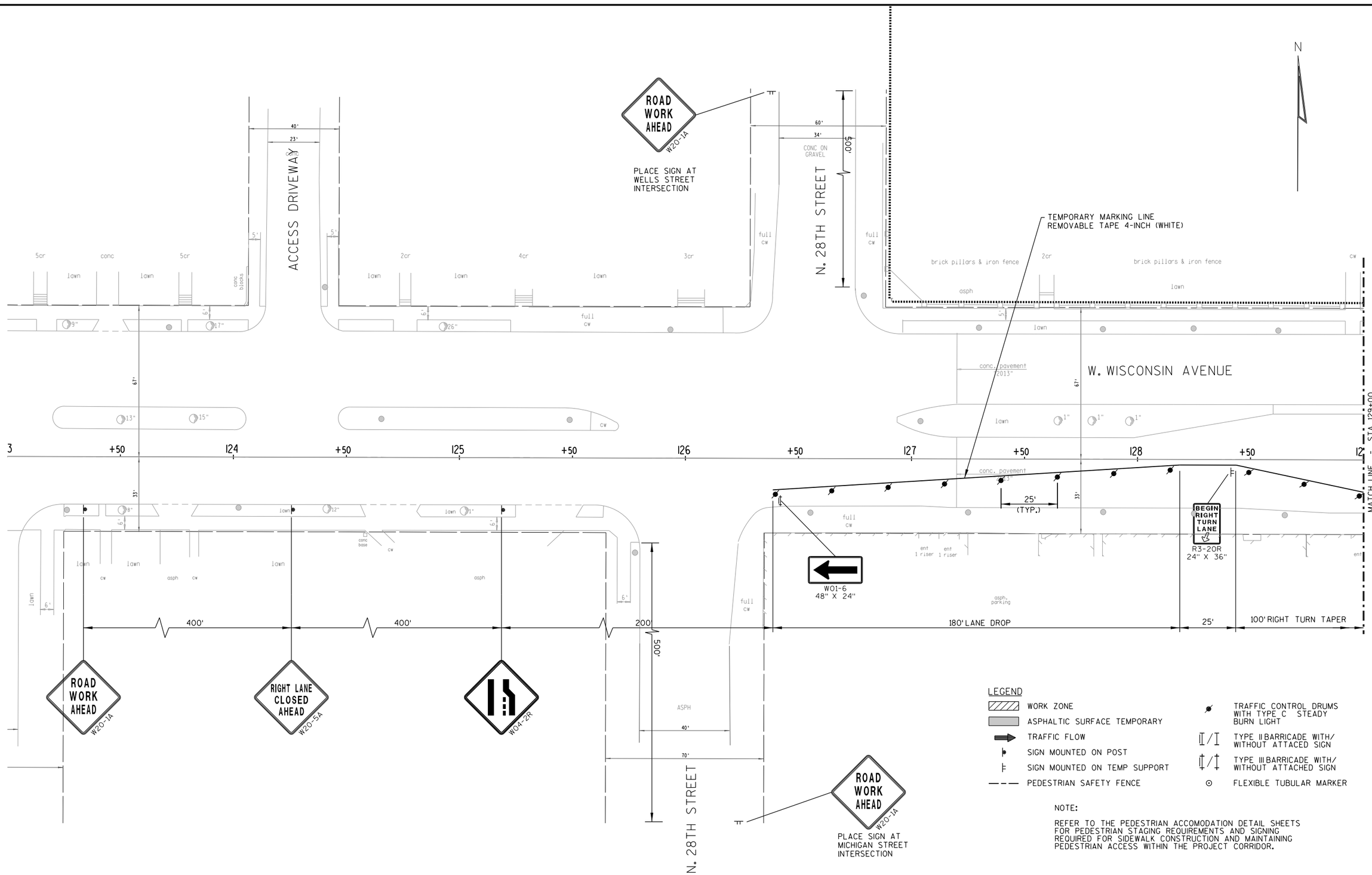
NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3A	SHEET 298	E

2



LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

2

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

ROAD WORK AHEAD W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

N. 27TH STREET

N. 26TH STREET

W. WISCONSIN AVENUE

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

BEGIN LANE SHIFT STA. 132+50, 8.5'LT

END LANE SHIFT STA. 135+00, 37'LT

TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

W06-3

R3-2 24" X 24"

W01-6 48" X 24"

MATCH LINE - STA 129+00

MATCH LINE - STA 135+00

100' RIGHT TURN TAPER

20'

LANE CLOSED R11-2L 48" X 30"

W01-4L

ROAD CLOSED R11-2 48" X 30"

R3-1 24" X 24"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

PEDESTRIAN SAFETY FENCE (TYPICAL)

MAINTAIN ACCESS TO DRIVEWAY

REMOVE RAISED MEDIAN. PLACE 5" TEMPORARY ASPHALT OVER 10" BASE AGGREGATE DENSE 1¼-INCH FOR USE IN STAGE 4A.

SEE STAGE 4A FOR LIMITS.

ROAD CLOSED AHEAD W20-3A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET 300	E

2

grand avenue school

N

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

R3-2
24" X 24"

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

W06-3
36" X 36"

N. 25TH STREET

60'
32'
500'

TEMPORARY BUS LOADING ZONE

W. WISCONSIN AVENUE

25'
(TYP.)

19'
13'
67'

MATCH LINE - STA 135+00

MATCH LINE - STA 141+00

135 +50 136 +50 137 +50 138 +50 139 +50 140 +50 141

33'

R3-2
24" X 24"

R3-1
24" X 24"

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

PEDESTRIAN SAFETY FENCE (TYPICAL)

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

MAINTAIN ACCESS TO DRIVEWAY

END ROAD WORK
G20-2A
48" X 24"

N 25TH STREET TO BE OPEN TO TRAFFIC AND PEDESTRIANS BEFORE CLOSING 24TH STREET

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET 301	E

2

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

BUS STOP DISCONTINUED DURING CONSTRUCTION

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

W6-3
36" X 36"

R3-2
24" X 24"

N. 24TH STREET

N. 23RD STREET

W. WISCONSIN AVENUE

AMBASSADOR HOTEL

R3-1
24" X 24"

LANE CLOSED
R11-2L
48" X 30"

MATCH LINE – STA 141+00

MATCH LINE – STA 147+00

BUS STOP DISCONTINUED DURING CONSTRUCTION

N 24TH STREET TO REMAIN OPEN TO TRAFFIC AND PEDESTRIANS WHEN N 25TH STREET IS CLOSED

ROAD CLOSED
R11-2
48" X 30"

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

MAINTAIN ACCESS TO DRIVEWAY

DO NOT PLACE FINAL MEDIAN CURB & GUTTER. LEAVE GAP FOR DRIVEWAY ACESS IN STAGE 4A. PLACE TEMPORARY ASPHALT; SEE STAGE 4I FOR LIMITS.

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

PEDESTRIAN SAFETY FENCE (TYPICAL)

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET 302 E

2

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

ROAD CLOSED
R11-2
48" X 30"

R3-2
24" X 24"

END ROAD WORK
G20-2A
48" X 24"

N. 22ND STREET

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

ROAD CLOSED
R11-2
48" X 30"

N. 21ST STREET

END ROAD WORK
G20-2A
48" X 24"

W. WISCONSIN AVENUE

25' (TYP.)

MATCH LINE - STA 147+00

MATCH LINE - STA 153+00

147 +50 148 +50 149 +50 150 +50 151 +50 152 +50

1/4 sec line

TEMPORARY BUS LOADING ZONE
TEMPORARY CURB RAMP REQUIRED

MAINTAIN ACCESS TO DRIVEWAY

PEDESTRIAN SAFETY FENCE (TYPICAL)

R3-2
24" X 24"

BUS STOP DISCONTINUED DURING CONSTRUCTION

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET 303	E

2

N

W. WISCONSIN AVENUE

MATCH LINE - STA 153+00

WO6-3
36" X 36"

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

BUS STOP DISCONTINUED
DURING CONSTRUCTION

BEGIN 211' RADIUS
STA. 155+83.5, 37' LT

WO1-6
48" X 24"

R3-2
24" X 24"

LEFT LANE
CLOSED
AHEAD
W20-5A

WO4-2L

ROAD
WORK
AHEAD
W20-1A

180' LANE DROP

200'

400'

400'

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

WO1-6
48" X 24"

END 200' RADIUS
STA. 157+32, 9' LT

25'
(TYP.)

19'

13'

11'

67'

33'

B +50 154 +50 155 +50 156 +50 157

1/4 sec line

mon.

500'

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

ROAD
CLOSED
R11-2
48" X 30"

END 211' RADIUS
BEGIN 200' RADIUS
STA. 156+59.8, 22.5' LT

END
ROAD WORK
G20-2A
48" X 24"

WO1-3R

20
M.P.H.
WO13-1
24" X 24"

MAINTAIN ACCESS
TO DRIVEWAY

PROVIDE GAP IN PEDESTRIAN SAFETY
FENCE FOR CROSS WALKS MAINTAINED
DURING CONSTRUCTION ACTIVITIES
(TYPICAL)

PEDESTRIAN SAFETY FENCE
(TYPICAL)

R3-1
24" X 24"

END
ROAD WORK
G20-2A
48" X 24"

ROAD
CLOSED
R11-2
48" X 30"

ROAD
CLOSED
AHEAD
W20-3A

PLACE SIGN AT
MICHIGAN STREET
INTERSECTION

N. 20TH STREET

asph. on conc.

36'

60'

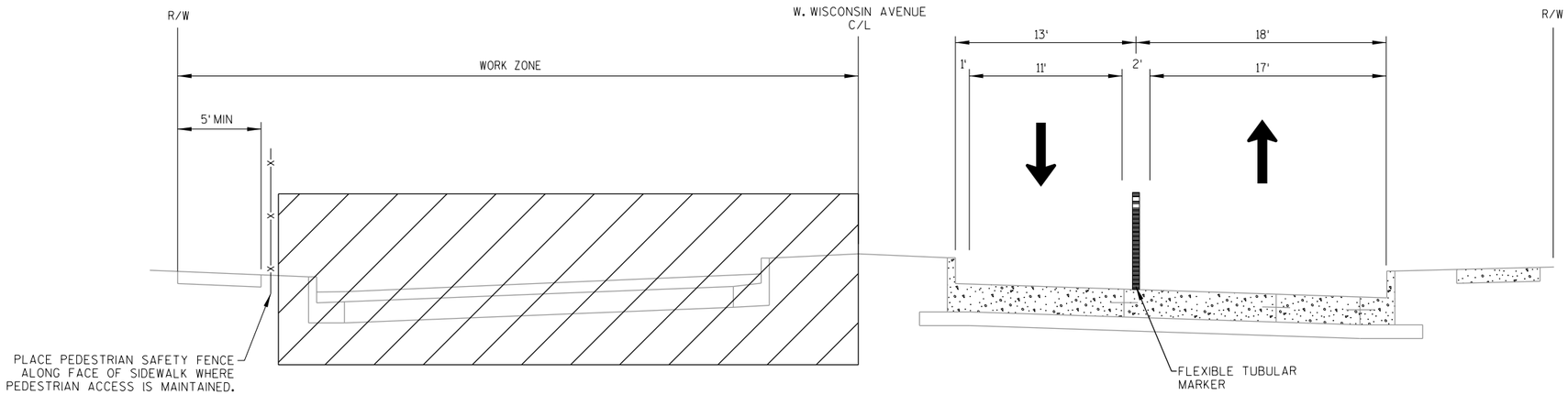
LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

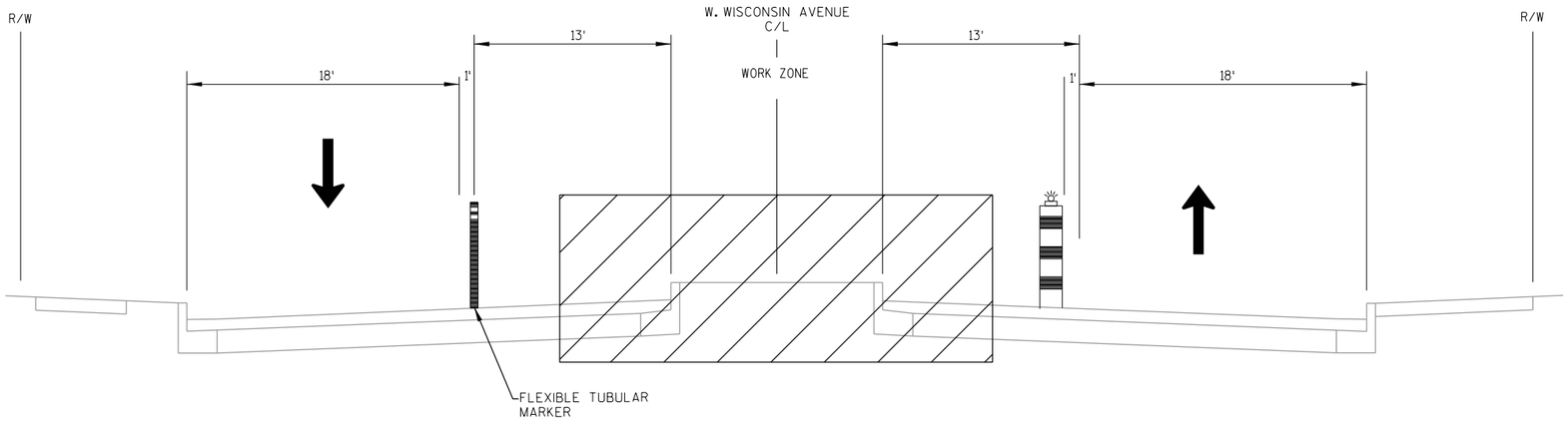
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3B	SHEET 304	E



STAGE 4A

W. WISCONSIN AVENUE

STA. 134+00 TO STA. 156+00



STAGE 4B

W. WISCONSIN AVENUE

STA. 134+00 TO STA. 156+00

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS - STAGE 4	SHEET 305	E

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

N. 27TH STREET

N. 26TH STREET

W. WISCONSIN AVENUE

ROAD CLOSED AHEAD W20-3A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

ROAD CLOSED R11-2 48" X 30"

R3-2 24" X 24"

R3-1 24" X 24"

PEDESTRIAN SAFETY FENCE (TYPICAL)

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES (TYPICAL)

END 200' RADIUS BEGIN 211' RADIUS STA. 133+58.17' LT

BEGIN 200' RADIUS STA. 132+73.36' LT

W01-6 48" X 24"

R3-2 24" X 24"

END 211' RADIUS STA. 134+47.7, 3' RT

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

MATCH LINE - STA 135+00

400' 400' 200' 180' LANE DROP

25' (TYP.)

ROAD WORK AHEAD W20-1A

LEFT LANE CLOSED AHEAD W20-5A

W04-2L

R3-2 24" X 24"

W01-6 48" X 24"

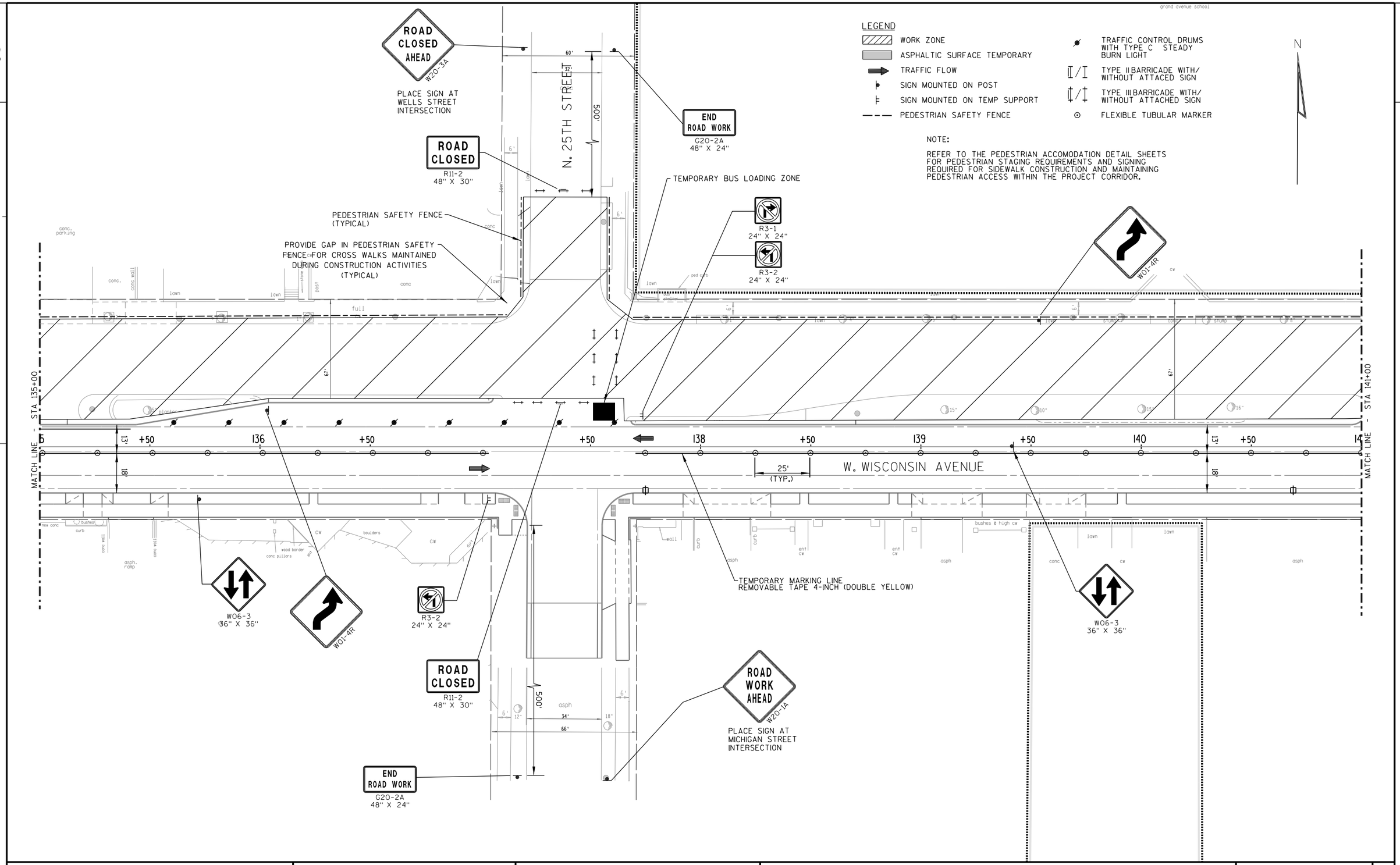
END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

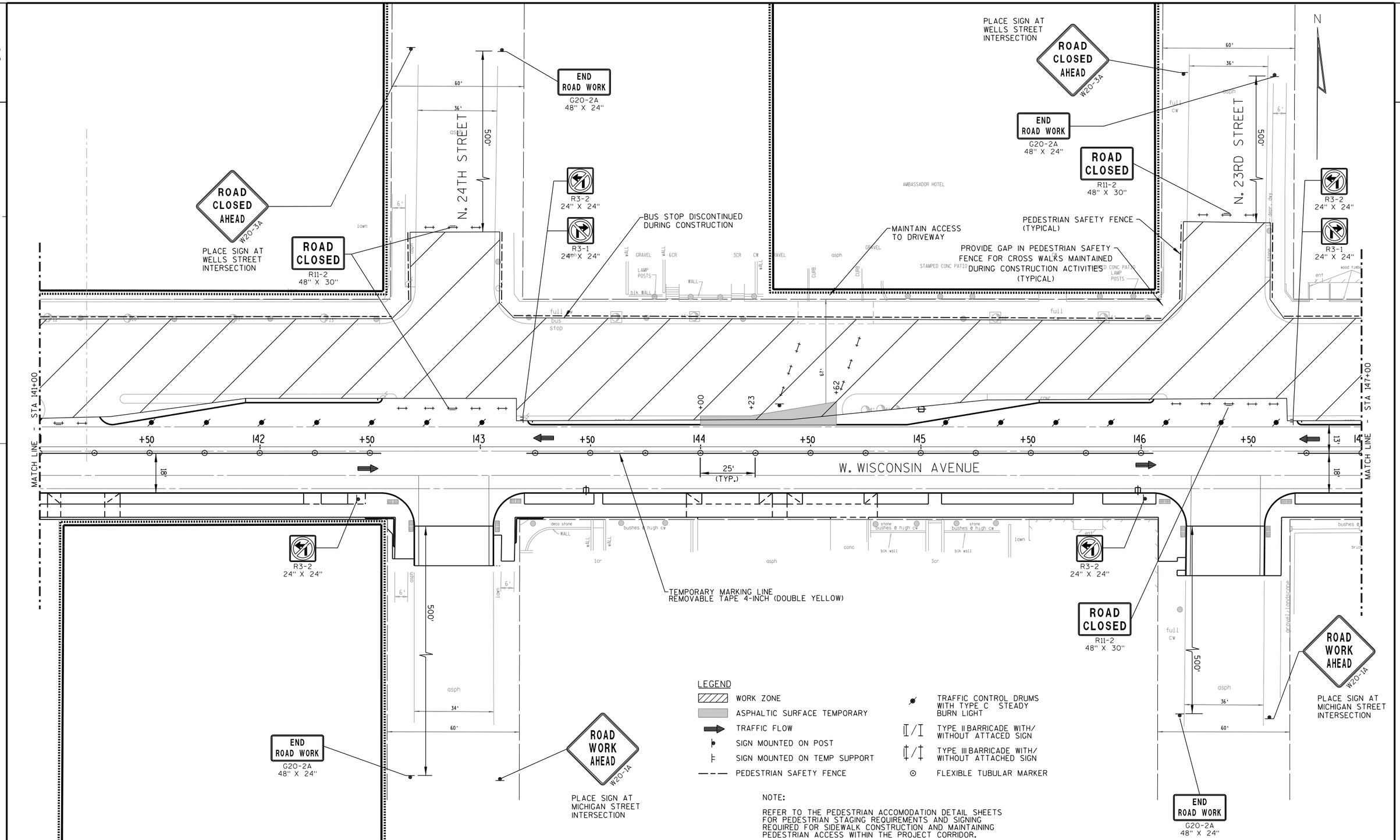
PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4A	SHEET 306	E

2



PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4A	SHEET 307	E

2



NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

2

ROAD CLOSED AHEAD W20-3A

PLACE SIGN AT WELLS STREET INTERSECTION

ROAD CLOSED R11-2 48" X 30"

END ROAD WORK G20-2A 48" X 24"

N. 22ND STREET

TEMPORARY BUS LOADING ZONE

PEDESTRIAN SAFETY FENCE (TYPICAL)

MAINTAIN ACCESS TO DRIVEWAY

PROVIDE GAP IN PEDESTRIAN SAFETY FENCE FOR CROSS WALKS MAINTAINED DURING CONSTRUCTION ACTIVITIES

R3-1 24" X 24"

W06-3 36" X 36" PLANTER

ROAD CLOSED AHEAD W20-3A

PLACE SIGN AT WELLS STREET INTERSECTION

ROAD CLOSED R11-2 48" X 30"

N. 21ST STREET

END ROAD WORK G20-2A 48" X 24"

MATCH LINE - STA 147+00

MATCH LINE - STA 153+00

W. WISCONSIN AVENUE

25' (TYP.)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

R3-2 24" X 24"

ROAD CLOSED R11-2 48" X 30"

W06-3 36" X 36"

BUS STOP DISCONTINUED DURING CONSTRUCTION

R3-2 24" X 24"

R3-1 24" X 24"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4A	SHEET 309 E

2

N

389-1406-110
210.15

389-1852-4
160

W06-3
36" X 36"

PEDESTRIAN SAFETY FENCE
(TYPICAL)

BUS STOP DISCONTINUED
DURING CONSTRUCTION

ROAD
CLOSED
R11-2
48" X 30"

W01-6
48" X 24"

ROAD
CLOSED
R11-2
48" X 30"

W01-3L

20
M.P.H.
W013-1
24" X 24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

MATCH LINE - STA 153+00

MATCH LINE - STA 159+00

153 +50 154 +50 155 +50 156 +50 157

1/4 sec line

W. WISCONSIN AVENUE

25'
(TYP.)

13'

18'

END 200' RADIUS
STA. 157+36.2, 26' LT

END 211' RADIUS
BEGIN 200' RADIUS
STA. 156+62.6, 11.8' LT

BEGIN 211' RADIUS
STA. 155+85, 3' RT

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

500'

R3-2
24" X 24"

R3-2
24" X 24"

END
ROAD WORK
G20-2A
48" X 24"

500'

N. 20TH STREET

1/4 sec line

END
ROAD WORK
G20-2A
48" X 24"

ROAD
WORK
AHEAD
W20-1A

PLACE SIGN AT
MICHIGAN STREET
INTERSECTION

400-0215-100
126.50

400-0604-100-2
100

400-0602
50

400-0601
51

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4A	SHEET 310	E

2

N

ROAD WORK AHEAD W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK G20-2A 48" X 24"

500'

N. 26TH STREET

180' LANE DROP

200'

400'

400'

W04-2R

RIGHT LANE CLOSED AHEAD W20-5

ROAD WORK AHEAD W20-1

LANE CLOSED R11-2L 48" X 30"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)

25' (TYP.)

MATCH LINE - STA 159+00

W. WISCONSIN AVENUE

W01-6 48" X 24"

N. 19TH STREET

N. 18TH STREET

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PLACE SIGN AT MICHIGAN STREET INTERSECTION

2

N. 27TH STREET

N. 26TH STREET

W. WISCONSIN AVENUE

389-0120-11C
95

389-0123-110
107.50

389-9999
65.24

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

NOTE:
SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, LANE CLOSURE" FOR ADDITIONAL INFORMATION.

W01-6
48" X 24"

R3-2
24" X 24"

ROAD CLOSED
R11-2
48" X 30"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)

REMOVE CROSSOVER AND CONSTRUCT NEW PAVEMENT.

MATCH LINE - STA 135+00

500'

240' LANE DROP

25' (TYP.)

400'

400'

200'

25'

LEFT LANE CLOSED AHEAD
W20-5A

W04-2L

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT MICHIGAN STREET INTERSECTION

400-0002-110
151.66

401-0502
60

401-0501
30

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4B	SHEET 312	E

2

grand avenue school

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

N

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 25TH STREET

60'
32'
500'
6"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

LANE CLOSED
R11-2L
48" X 30"

90' LANE SHIFT

25'
(TYP.)

CONSTRUCT MEDIAN
CURB & GUTTER

MATCH LINE - STA 135+00

MATCH LINE - STA 141+00

136 +50 +50 +50 138 +50 139 +50 140 +50 14

W. WISCONSIN AVENUE

WO1-4R

LANE CLOSED
R11-2L
48" X 30"

CONSTRUCT MEDIAN
CURB & GUTTER

500'

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

asph
34'
66'
18"

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4B	SHEET 313	E

2

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

N. 24TH STREET

LANE CLOSED
R11-2L
48" X 30"

CONSTRUCT MEDIAN CURB & GUTTER

PLACE SIGN AT WELLS STREET INTERSECTION

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

N. 23RD STREET

LANE CLOSED
R11-2L
48" X 30"

N

MATCH LINE - STA 141+00

+50 142 +50 143 +50 144 +50 145 +50 146 +50 14

MATCH LINE - STA 147+00

W. WISCONSIN AVENUE

25' (TYP.)

18'

LANE CLOSED
R11-2L
48" X 30"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LANE CLOSED
R11-2L
48" X 30"

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A
PLACE SIGN AT MICHIGAN STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4B	SHEET 314	E

2

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT WELLS STREET INTERSECTION

END ROAD WORK
G20-2A
48" X 24"

END ROAD WORK
G20-2A
48" X 24"

LANE CLOSED
R11-2L
48" X 30"

LANE CLOSED
R11-2L
48" X 30"

CONSTRUCT MEDIAN CURB & GUTTER

N. 22ND STREET

N. 21ST STREET

W. WISCONSIN AVENUE

N

MATCH LINE - STA 147+00

MATCH LINE - STA 153+00

147 +50 148 +50 149 +50 150 +50 151 +50 152 +50 153

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LANE CLOSED
R11-2L
48" X 30"

LANE CLOSED
R11-2L
48" X 30"

25' (TYP.)

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4B	SHEET 315	E

2

N

389-1406-110
210.15

389-1852-4
160

LANE CLOSED
R11-2L
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

R3-2
24" X 24"

LANE CLOSED
R11-2L
48" X 30"

W04-2L

LEFT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

225' LANE DROP

200'

400'

400'

W. WISCONSIN AVENUE

MATCH LINE - STA 153+00

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

153 +50 154 +50 155 +50 156 +50 1/4 sec line 157

75' LANE SHIFT

25'
(TYP.)

W01-6
48" X 24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

500'

ROAD CLOSED
R11-2
48" X 30"

REMOVE CROSSOVER. CONSTRUCT
PAVEMENT AND MEDIAN CURB & GUTTER.

END ROAD WORK
G20-2A
48" X 24"

W01-4R

100'

R3-2
24" X 24"

N. 20TH STREET

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A

PLACE SIGN AT
MICHIGAN STREET
INTERSECTION

400-0601
51

400-0215-100
126.50

400-0604-100-2
100

400-0602
50

LEGEND

- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- PEDESTRIAN SAFETY FENCE
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER

NOTE:

REFER TO THE PEDESTRIAN ACCOMODATION DETAIL SHEETS FOR PEDESTRIAN STAGING REQUIREMENTS AND SIGNING REQUIRED FOR SIDEWALK CONSTRUCTION AND MAINTAINING PEDESTRIAN ACCESS WITHIN THE PROJECT CORRIDOR.

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4B	SHEET 316	E

2

N

T. 7 N. 24 25 R. 21 E.

T. 7 N. 25 R. 21 E.

STA. 30 + 33.00

TOWNSHIP 7 NORTH, RANGE 21 EAST

MILWAUKEE COUNTY, WISCONSIN
CONCRETE MONUMENT W/ BRASS CAP

STATE PLANE COORDINATES OF CENTER OF SECTION
(Y) NORTH: 385,246.41
(X) EAST: 2,545,975.83

EQUATION

STA. 32 + 63.50 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 105 + 63.50 - W. WISCONSIN AVE. (LOCAL STREET) (2190-00-70)

SEE DETAIL

END PROJECT 2190-00-71

STA. 32+63.50

T/L W. WISCONSIN AVE.

I/4 SECTION LINE

MATCH LINE

N. 37TH ST.

N. 36TH ST.

89° 45' 35"

49° 17' 03"

15 20 25 30 35

I/4 SECTION LINE = T/L W. WISCONSIN AVE. N89° 01' 02"E

I/4 SECTION LINE = T/L W. WISCONSIN AVE. N88° 53' 05"E

180° 08' 13"

N. 35TH ST.

T. 7 N. 25 36 R. 21 E.

BEGIN PROJECT 2190-00-71

STA. 17 + 23.30
(Y) NORTH: 382,224.46
(X) EAST: 2,544,696.09

1 OF 3

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SCALE FEET 0' 300'	SHEET NO: 317	E

FILENAME: W:\SPR\WISC_38-20COMBINED\ALIGN WISC.DGN

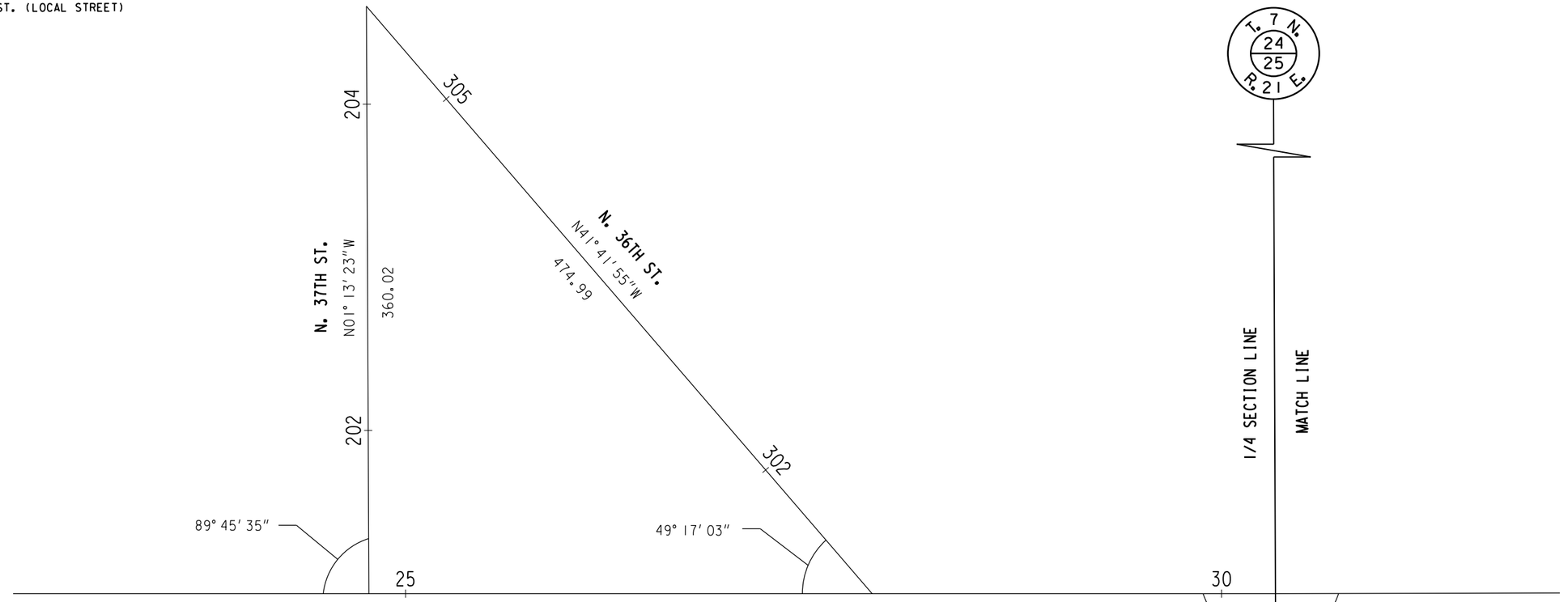
REVISED DATE: 07-20-2017 BY DB

2

EQUATION

STA. 04 + 60.02 - N. 37TH ST. (LOCAL STREET) =
STA. 05 + 88.88 - N. 36TH ST. (LOCAL STREET)

DETAIL



1/4 SECTION LINE = T/L W. WISCONSIN AVE. N89° 01' 02"E

EQUATION

STA. 24 + 77.55 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 1 + 00 - N. 36TH ST. (LOCAL STREET)

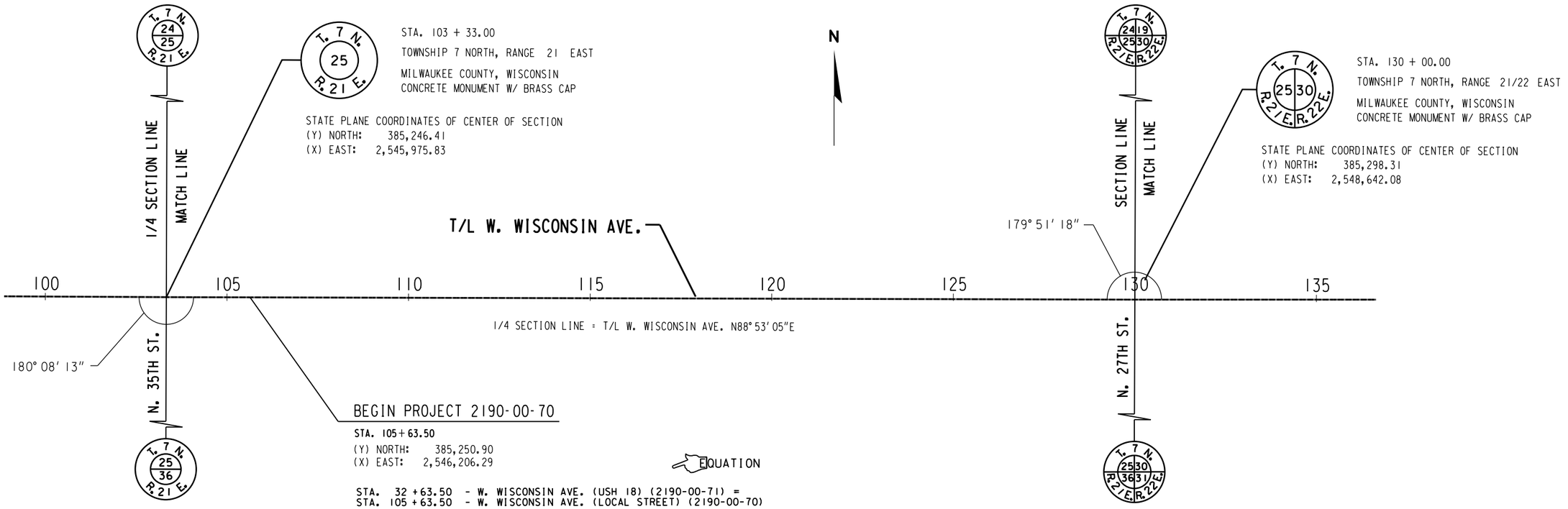
STA. 27 + 85.88 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 1 + 00 - N. 37TH ST. (LOCAL STREET)

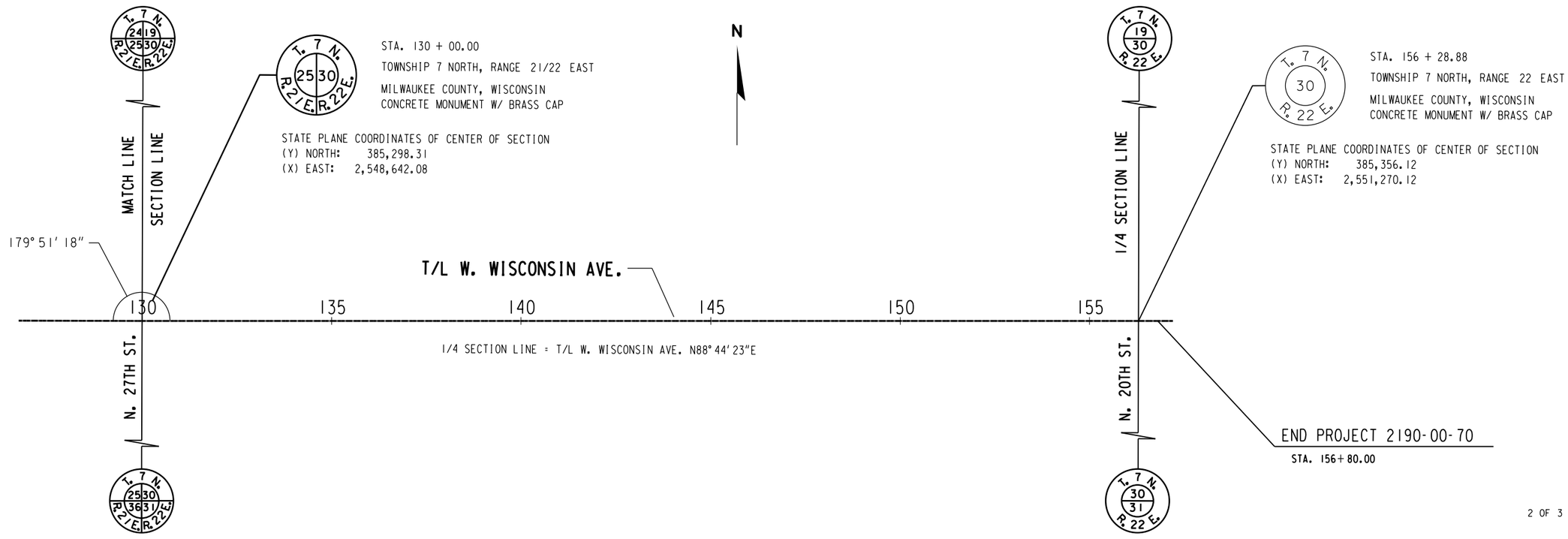
3 OF 3

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SCALE FEET 0' 300'	SHEET NO: 318	E

FILENAME: W:\SPR\WISC_38-20COMBINED\ALIGN WISC.DGN

REVISED DATE: 07-20-2017





STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	ALIGNMENT	SCALE FEET 0' 300'	SHEET NO: 319	E

FILENAME: W:\SPR\WISC_38-20COMBINED\ALIGN WISC.DGN

REVISED DATE: 07-20-2017 BY DB

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	201.0120	Clearing	ID	558.000	558.000	
0004	201.0220	Grubbing	ID	558.000	558.000	
0006	204.0100	Removing Pavement	SY	56,300.000	39,640.000	16,660.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,360.000	2,100.000	260.000
0010	204.0150	Removing Curb & Gutter	LF	600.000	490.000	110.000
0012	204.0155	Removing Concrete Sidewalk	SY	53,640.000	50,410.000	3,230.000
0014	204.0220	Removing Inlets	EACH	89.000	66.000	23.000
0016	204.0245	Removing Storm Sewer (size) 001. 8-Inch	LF	3,006.000	2,080.000	926.000
0018	205.0100	Excavation Common	CY	53,976.000	39,293.000	14,683.000
0020	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	1,212.000		1,212.000
0022	213.0100	Finishing Roadway (project) 001. 2190-00-70	EACH	1.000	1.000	
0024	213.0100	Finishing Roadway (project) 002. 2190-00-71	EACH	1.000		1.000
0026	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	19,500.000	14,090.000	5,410.000
0028	320.0125	Concrete Base 6-Inch	SY	370.000		370.000
0030	415.0080	Concrete Pavement 8-Inch	SY	47,350.000	33,740.000	13,610.000
0032	415.0210	Concrete Pavement Gaps	EACH	6.000	2.000	4.000
0034	416.0170	Concrete Driveway 7-Inch	SY	1,590.000	1,220.000	370.000
0036	416.0610	Drilled Tie Bars	EACH	40.000	24.000	16.000
0038	416.0620	Drilled Dowel Bars	EACH	248.000	96.000	152.000
0040	455.0605	Tack Coat	GAL	58.000	40.000	18.000
0042	465.0105	Asphaltic Surface	TON	485.000	360.000	125.000
0044	601.0319	Concrete Curb & Gutter 19-Inch	LF	125.000		125.000
0046	601.0331	Concrete Curb & Gutter 31-Inch	LF	12,180.000	9,090.000	3,090.000
0048	601.0600	Concrete Curb Pedestrian	LF	570.000	420.000	150.000
0050	602.0410	Concrete Sidewalk 5-Inch	SF	78,100.000	57,410.000	20,690.000
0052	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	1,000.000	820.000	180.000
0054	603.8000	Concrete Barrier Temporary Precast Delivered	LF	9,490.000	7,730.000	1,760.000
0056	603.8125	Concrete Barrier Temporary Precast Installed	LF	9,490.000	7,730.000	1,760.000
0058	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	2,480.000	1,636.000	844.000
0060	611.2004	Manholes 4-FT Diameter	EACH	4.000	1.000	3.000
0062	611.8110	Adjusting Manhole Covers	EACH	99.000	63.000	36.000
0064	611.8115	Adjusting Inlet Covers	EACH	6.000	1.000	5.000
0066	616.0700.S	Fence Safety	LF	600.000	400.000	200.000
0068	619.1000	Mobilization	EACH	1.000	0.750	0.250
0070	620.0300	Concrete Median Sloped Nose	SF	710.000	450.000	260.000
0072	621.0100	Landmark Reference Monuments	EACH	2.000	1.000	1.000
0074	623.0200	Dust Control Surface Treatment	SY	47,410.000	33,800.000	13,610.000
0076	625.0100	Topsoil	SY	9,410.000	7,290.000	2,120.000

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0078	628.1905	Mobilizations Erosion Control	EACH	6.000	3.000	3.000
0080	628.1910	Mobilizations Emergency Erosion Control	EACH	18.000	9.000	9.000
0082	628.7005	Inlet Protection Type A	EACH	83.000	58.000	25.000
0084	628.7010	Inlet Protection Type B	EACH	6.000	3.000	3.000
0086	628.7015	Inlet Protection Type C	EACH	92.000	62.000	30.000
0088	631.1000	Sod Lawn	SY	9,410.000	7,290.000	2,120.000
0090	632.0101	Trees (species) (size) (root) 001. Dwarf Serbian Spruce #5 CG	EACH	2.000	2.000	
0092	632.0101	Trees (species) (size) (root) 002. American Hornbeam 3" B&B	EACH	3.000	3.000	
0094	632.0101	Trees (species) (size) (root) 003. Cleveland Select Pear 3" B&B	EACH	15.000	15.000	
0096	632.0101	Trees (species) (size) (root) 004. Ivory Silk Lilac 3" B&B	EACH	6.000	6.000	
0098	632.0101	Trees (species) (size) (root) 005. Common Baldcypress 3" B&B	EACH	2.000	2.000	
0100	632.0101	Trees (species) (size) (root) 006. Red Bud 3" B&B	EACH	2.000	2.000	
0102	632.0101	Trees (species) (size) (root) 007. Sunburst Honey Locust 3" B&B	EACH	1.000	1.000	
0104	632.0101	Trees (species) (size) (root) 008. Freeman Maple 3" B&B	EACH	6.000	6.000	
0106	632.0101	Trees (species) (size) (root) 009. Serviceberry 3" B&B	EACH	3.000	3.000	
0108	632.0101	Trees (species) (size) (root) 010. Tulip Tree 3" B&B	EACH	1.000	1.000	
0110	632.0201	Shrubs (species) (size) (root) 001. Dwarf Korean Lilac #5 CG	EACH	12.000	12.000	
0112	632.0201	Shrubs (species) (size) (root) 002. Yellow Knockout Rose #2 CG	EACH	6.000	6.000	
0114	632.0201	Shrubs (species) (size) (root) 003. Tiger Eye Sumac #5 CG	EACH	12.000	12.000	
0116	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	10.000	10.000	
0118	637.2210	Signs Type II Reflective H	SF	79.500		79.500
0120	638.2102	Moving Signs Type II	EACH	15.000	13.000	2.000
0122	638.2602	Removing Signs Type II	EACH	273.000	199.000	74.000
0124	638.3000	Removing Small Sign Supports	EACH	91.000	71.000	20.000
0126	638.4000	Moving Small Sign Supports	EACH	1.000	1.000	
0128	642.5401	Field Office Type D	EACH	1.000	0.750	0.250
0130	643.0300	Traffic Control Drums	DAY	24,286.000	11,646.000	12,640.000
0132	643.0410	Traffic Control Barricades Type II	DAY	6,388.000	5,460.000	928.000
0134	643.0420	Traffic Control Barricades Type III	DAY	20,440.000	14,961.000	5,479.000
0136	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	553.000	416.000	137.000
0138	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	553.000	416.000	137.000
0140	643.0705	Traffic Control Warning Lights Type A	DAY	40,880.000	29,922.000	10,958.000

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0142	643.0715	Traffic Control Warning Lights Type C	DAY	24,286.000	11,646.000	12,640.000
0144	643.0900	Traffic Control Signs	DAY	25,439.000	19,097.000	6,342.000
0146	643.0920	Traffic Control Covering Signs Type II	EACH	4.000		4.000
0148	643.5000	Traffic Control	EACH	1.000	0.750	0.250
0150	644.1430.S	Temporary Pedestrian Surface Plate	SF	2,760.000	2,320.000	440.000
0152	644.1601.S	Temporary Curb Ramp	EACH	69.000	58.000	11.000
0154	644.1616.S	Temporary Pedestrian Safety Fence	LF	20,730.000	16,960.000	3,770.000
0156	646.1020	Marking Line Epoxy 4-Inch	LF	6,181.000	1,876.000	4,305.000
0158	646.3020	Marking Line Epoxy 8-Inch	LF	2,208.000	1,095.000	1,113.000
0160	646.5220	Marking Symbol Epoxy	EACH	36.000	33.000	3.000
0162	646.7120	Marking Diagonal Epoxy 12-Inch	LF	60.000		60.000
0164	646.9000	Marking Removal Line 4-Inch	LF	980.000		980.000
0166	646.9100	Marking Removal Line 8-Inch	LF	60.000		60.000
0168	646.9300	Marking Removal Special Marking	EACH	1.000		1.000
0170	649.0105	Temporary Marking Line Paint 4-Inch	LF	15,670.000	11,580.000	4,090.000
0172	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	24,020.000	13,290.000	10,730.000
0174	649.0205	Temporary Marking Line Paint 8-Inch	LF	325.000		325.000
0176	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	770.000	40.000	730.000
0178	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	115.000		115.000
0180	650.4000	Construction Staking Storm Sewer	EACH	87.000	59.000	28.000
0182	650.4500	Construction Staking Subgrade	LF	13,798.000	10,233.000	3,565.000
0184	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	16,960.000	11,840.000	5,120.000
0186	650.7000	Construction Staking Concrete Pavement	LF	13,798.000	10,233.000	3,565.000
0188	650.8500	Construction Staking Electrical Installations (project) 001. 2190-00-70	LS	1.000	1.000	
0190	650.8500	Construction Staking Electrical Installations (project) 002. 2190-00-71	LS	1.000		1.000
0192	650.9000	Construction Staking Curb Ramps	EACH	125.000	103.000	22.000
0194	650.9910	Construction Staking Supplemental Control (project) 001. 2190-00-70	LS	1.000	1.000	
0196	650.9910	Construction Staking Supplemental Control (project) 002. 2190-00-71	LS	1.000		1.000
0198	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	401.000	322.000	79.000
0200	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	18,454.000	12,570.000	5,884.000
0202	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	3,630.000	2,850.000	780.000
0204	652.0615	Conduit Special 3-Inch	LF	480.000		480.000
0206	654.0101	Concrete Bases Type 1	EACH	13.000	9.000	4.000
0208	654.0102	Concrete Bases Type 2	EACH	127.000	94.000	33.000
0210	654.0110	Concrete Bases Type 10	EACH	7.000	5.000	2.000
0212	654.0113	Concrete Bases Type 13	EACH	1.000		1.000
0214	655.0230	Cable Traffic Signal 5-14 AWG	LF	3,381.000	1,782.000	1,599.000

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0216	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,148.000	894.000	254.000
0218	655.0260	Cable Traffic Signal 12-14 AWG	LF	3,981.000	2,199.000	1,782.000
0220	655.0270	Cable Traffic Signal 15-14 AWG	LF	2,433.000	1,265.000	1,168.000
0222	655.0280	Cable Traffic Signal 19-14 AWG	LF	184.000		184.000
0224	655.0305	Cable Type UF 2-12 AWG Grounded	LF	6,320.000	4,420.000	1,900.000
0226	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	4,813.000	2,797.000	2,016.000
0228	655.0900	Traffic Signal EVP Detector Cable	LF	4,246.000	1,934.000	2,312.000
0230	656.0200	Electrical Service Meter Breaker Pedestal (location) 001. Wisconsin Ave & 36th	LS	1.000		1.000
0232	656.0200	Electrical Service Meter Breaker Pedestal (location) 002. Wisconsin Ave & 35th	LS	1.000		1.000
0234	656.0200	Electrical Service Meter Breaker Pedestal (location) 003. Wisconsin Ave & 32nd	LS	1.000	1.000	
0236	656.0200	Electrical Service Meter Breaker Pedestal (location) 004. Wisconsin Ave & 26th	LS	1.000	1.000	
0238	656.0200	Electrical Service Meter Breaker Pedestal (location) 005. Wisconsin Ave & 24th	LS	1.000	1.000	
0240	657.0100	Pedestal Bases	EACH	13.000	9.000	4.000
0242	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	11.000	8.000	3.000
0244	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	2.000	1.000	1.000
0246	658.0173	Traffic Signal Face 3S 12-Inch	EACH	73.000	43.000	30.000
0248	658.0174	Traffic Signal Face 4S 12-Inch	EACH	4.000		4.000
0250	658.0412	Pedestrian Signal Face 12-Inch	EACH	36.000	20.000	16.000
0252	658.0500	Pedestrian Push Buttons	EACH	15.000	11.000	4.000
0254	658.5069	Signal Mounting Hardware (location) 001. Wisconsin Ave & 36th	LS	1.000		1.000
0256	658.5069	Signal Mounting Hardware (location) 002. Wisconsin Ave & 35th	LS	1.000		1.000
0258	658.5069	Signal Mounting Hardware (location) 003. Wisconsin Ave & 32nd	LS	1.000	1.000	
0260	658.5069	Signal Mounting Hardware (location) 004. Wisconsin Ave & 26th	LS	1.000	1.000	
0262	658.5069	Signal Mounting Hardware (location) 005. Wisconsin Ave & 24th	LS	1.000	1.000	
0264	690.0150	Sawing Asphalt	LF	1,850.000	1,170.000	680.000
0266	690.0250	Sawing Concrete	LF	1,083.000	873.000	210.000
0268	715.0415	Incentive Strength Concrete Pavement	DOL	14,205.000	10,122.000	4,083.000
0270	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,000.000		3,000.000
0272	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,500.000		4,500.000
0274	SPV.0060	Special 001. Temporary Bus Loading Zone	EACH	14.000	8.000	6.000
0276	SPV.0060	Special 002. Installing City Furnished Signs	EACH	264.000	200.000	64.000
0278	SPV.0060	Special 003. Marking Symbol Preformed Plastic	EACH	4.000		4.000

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0280	SPV.0060	Special 004. Marking Arrow Preformed Plastic	EACH	8.000		8.000
0282	SPV.0060	Special 005. Marking Word Preformed Plastic	EACH	4.000		4.000
0284	SPV.0060	Special 006. Woods Purple Aster #1 CG	EACH	72.000	72.000	
0286	SPV.0060	Special 007. Russian Sage #1 CG	EACH	12.000	12.000	
0288	SPV.0060	Special 008. Shasta Daisy Becky #1 CG	EACH	24.000	24.000	
0290	SPV.0060	Special 009. Cloud Nine Switchgrass #1 CG	EACH	14.000	14.000	
0292	SPV.0060	Special 010. Catmint Blue Wonder #1 CG	EACH	120.000	120.000	
0294	SPV.0060	Special 011. Karl Forester Grass #1 CG	EACH	144.000	144.000	
0296	SPV.0060	Special 012. Day Lilies #1 CG	EACH	96.000	96.000	
0298	SPV.0060	Special 013. Zagreb Coreopsis #1 CG	EACH	48.000	48.000	
0300	SPV.0060	Special 014. Signature Bed	EACH	3.000	3.000	
0302	SPV.0060	Special 016. Furnish and Install Radar Vehicle Sensing Device	EACH	1.000		1.000
0304	SPV.0060	Special 017. Adjusting Water Boxes	EACH	139.000	108.000	31.000
0306	SPV.0060	Special 018. Adjusting Water Manholes	EACH	4.000	2.000	2.000
0308	SPV.0060	Special 020. Utility Line Opening	EACH	6.000	4.000	2.000
0310	SPV.0060	Special 021. Internal Sanitary Manhole Seal	EACH	8.000	3.000	5.000
0312	SPV.0060	Special 022. Catch Basin Type 44A	EACH	65.000	58.000	7.000
0314	SPV.0060	Special 023. Catch Basin Type 45A	EACH	18.000		18.000
0316	SPV.0060	Special 024. Manhole Cover Type 58A	EACH	2.000		2.000
0318	SPV.0060	Special 025. Inlet Cover Type 57	EACH	83.000	57.000	26.000
0320	SPV.0060	Special 026. Inlet Cover Type 55	EACH	2.000	2.000	
0322	SPV.0060	Special 027. Skid/Slip Resist Green Preformed Thermoplastic Integrated Bike Lane Arrow	EACH	2.000		2.000
0324	SPV.0060	Special 028. Skid/Slip Resist Green Preformed Thermoplastic Integrated Bike Lane Symbol	EACH	2.000		2.000
0326	SPV.0060	Special 200. Install City Precast Controller Base	EACH	5.000	3.000	2.000
0328	SPV.0060	Special 203. Concrete Base Type 10 Special	EACH	10.000	5.000	5.000
0330	SPV.0060	Special 205. ATC Controller and Cabinet Installed	EACH	5.000	3.000	2.000
0332	SPV.0060	Special 218. EVP 1 Channel 1 Direction Infrared Detector	EACH	15.000	9.000	6.000
0334	SPV.0060	Special 219. EVP 1 Channel 2 Direction Infrared Detector	EACH	1.000		1.000
0336	SPV.0060	Special 221. EVP Phase Selector Card 4 Channel	EACH	5.000	3.000	2.000
0338	SPV.0060	Special 223. EVP Confirmation Light Assembly	EACH	17.000	9.000	8.000
0340	SPV.0060	Special 246. Pole Type 10	EACH	7.000	5.000	2.000
0342	SPV.0060	Special 249. Pole Type 13 Special	EACH	10.000	5.000	5.000
0344	SPV.0060	Special 250. Pole Type 13	EACH	1.000		1.000
0346	SPV.0060	Special 258. Monotube Arm 20-FT	EACH	3.000	3.000	
0348	SPV.0060	Special 259. Monotube Arm 25-FT	EACH	3.000	1.000	2.000
0350	SPV.0060	Special 260. Monotube Arm 30-FT	EACH	1.000	1.000	

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0352	SPV.0060	Special 261. Monotube Arm 35-FT	EACH	2.000		2.000
0354	SPV.0060	Special 262. Monotube Arm 40-FT	EACH	8.000	5.000	3.000
0356	SPV.0060	Special 263. Monotube Arm 45-FT	EACH	1.000		1.000
0358	SPV.0060	Special 291. 24"x24" Blankout Sign No Turn	EACH	2.000		2.000
0360	SPV.0060	Special 302. Fiberglass/Polymer Concrete Pull Box 13"x24"x24"	EACH	203.000	158.000	45.000
0362	SPV.0060	Special 303. Fiberglass/Polymer Concrete Pull Box 17"x30"x24"	EACH	78.000	57.000	21.000
0364	SPV.0060	Special 342. Water Tight Junction Box Splicing	EACH	109.000	84.000	25.000
0366	SPV.0060	Special 351. Install City Furnished Arm 6-FT	EACH	19.000	18.000	1.000
0368	SPV.0060	Special 376. Luminaire Utility LED 3	EACH	19.000	18.000	1.000
0370	SPV.0060	Special 398. Concrete Base Type 2 Modified	EACH	133.000	97.000	36.000
0372	SPV.0060	Special 400. Adjusting CUC Manhole Covers	EACH	47.000	34.000	13.000
0374	SPV.0060	Special 401. 4' Diameter Manhole Type CUC	EACH	2.000	2.000	
0376	SPV.0060	Special 402. 5' Diameter Manhole Type CUC	EACH	4.000	4.000	
0378	SPV.0060	Special 410. 4' Diameter "Doghouse" Manhole Type CUC	EACH	5.000	4.000	1.000
0380	SPV.0060	Special 411. 4' Diameter "Doghouse" Manhole Type CUC Installed Over Conduit	EACH	1.000	1.000	
0382	SPV.0060	Special 412. 5' Diameter "Doghouse" Manhole Type CUC	EACH	6.000	5.000	1.000
0384	SPV.0060	Special 413. 5' Diameter "Doghouse" Manhole Type CUC Installed Over Conduit	EACH	1.000		1.000
0386	SPV.0060	Special 420. Remove CUC Manhole	EACH	11.000	9.000	2.000
0388	SPV.0060	Special 425. Installing Conduit Into Existing Manhole	EACH	9.000	7.000	2.000
0390	SPV.0060	Special 800. Pole Type 5	EACH	53.000	45.000	8.000
0392	SPV.0060	Special 818. Pole Type 30	EACH	23.000	18.000	5.000
0394	SPV.0060	Special 819. Pole Type 31	EACH	107.000	76.000	31.000
0396	SPV.0060	Special 864. Luminaire Historic Milwaukee Harp LED 0	EACH	57.000	45.000	12.000
0398	SPV.0060	Special 867. Luminaire Historic Milwaukee Lantern LED 3	EACH	159.000	113.000	46.000
0400	SPV.0090	Special 001. Marking Crosswalk Preformed Plastic 8-Inch	LF	5,054.000	3,778.000	1,276.000
0402	SPV.0090	Special 002. Marking Stop Line Preformed Plastic 24-Inch	LF	649.000	328.000	321.000
0404	SPV.0090	Special 003. Fieldstone Boulder Wall	LF	120.000	120.000	
0406	SPV.0090	Special 004. Type UF Cable 2 Conductor No 14	LF	4,246.000	1,934.000	2,312.000
0408	SPV.0090	Special 005. Construction Staking Concrete Sidewalk	LF	13,018.000	9,570.000	3,448.000
0410	SPV.0090	Special 006. Marking Line Epoxy 6-Inch White	LF	1,458.000		1,458.000
0412	SPV.0090	Special 007. Marking Crosswalk Preformed Plastic Ladder Pattern 24-Inch	LF	234.000	234.000	
0414	SPV.0090	Special 008. Concrete Curb And Gutter Integral 19-Inch	LF	4,655.000	2,750.000	1,905.000

					2190-00-70	2190-00-71
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0416	SPV.0090	Special 201. Install Fiber Optic Outdoor Plant 72-CT Contractor Supplied	LF	6,556.000	6,198.000	358.000
0418	SPV.0090	Special 335. Cable Type 3#8/1#8 LTP	LF	4,605.000	3,680.000	925.000
0420	SPV.0090	Special 336. Cable Type 3#6/1#8 LTP	LF	2,900.000	1,400.000	1,500.000
0422	SPV.0090	Special 337. Cable Type 3#4/1#8 LTP	LF	5,520.000	5,520.000	
0424	SPV.0090	Special 338. Cable Type 3#2/1#8 LTP	LF	1,040.000	1,040.000	
0426	SPV.0090	Special 340. Cable Type 3#10 UF AWG w/ Ground	LF	6,500.000	6,500.000	
0428	SPV.0090	Special 401. 1-Duct Conduit Cement Encased DB-60	LF	48.000	48.000	
0430	SPV.0090	Special 402. 2-Duct Conduit Cement Encased DB-60	LF	910.000	793.000	117.000
0432	SPV.0090	Special 406. 6-Duct Conduit Cement Encased DB-60	LF	4,469.000	4,111.000	358.000
0434	SPV.0090	Special 408. 8-Duct Conduit Cement Encased DB-60	LF	267.000	267.000	
0436	SPV.0090	Special 409. 9-Duct Conduit Cement Encased DB-60	LF	40.000	40.000	
0438	SPV.0090	Special 422. Duct Removal From Concrete Encased Duct Package	LF	11.000		11.000
0440	SPV.0105	Special 001. Vehicular Video Detection System Wisconsin Ave & 36th	LS	1.000		1.000
0442	SPV.0105	Special 002. Vehicular Video Detection System Wisconsin Ave & 35th	LS	1.000		1.000
0444	SPV.0105	Special 003. Vehicular Video Detection System Wisconsin Ave & 32nd	LS	1.000	1.000	
0446	SPV.0105	Special 004. Vehicular Video Detection System Wisconsin Ave & 26th	LS	1.000	1.000	
0448	SPV.0105	Special 005. Vehicular Video Detection System Wisconsin Ave & 24th	LS	1.000	1.000	
0450	SPV.0165	Special 001. Skid/Slip Resist Green Preformed Thermoplastic Integrated Bike Lane Panel	SF	280.000		280.000
0452	SPV.0180	Special 001. Joint Sealing	SY	47,350.000	33,740.000	13,610.000

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CLEARING AND GRUBBING

STREET	LOCATION	CAT 10 201.0120 CLEARING I.D.	CAT 10 201.0220 GRUBBING I.D.
USH 18	STA 17+23.30 TO STA 22+00	--	--
USH 18	STA 22+00 TO STA 28+00	--	--
USH 18	STA 28+00 TO STA 32+63.50	--	--
N 36TH		--	--
N 37TH		--	--
PROJECT 2190-00-71 TOTAL		0	0

STREET	LOCATION		
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	20	20
WISCONSIN AVE	STA 111+00 TO STA 117+00	51	51
WISCONSIN AVE	STA 117+00 TO STA 123+00	27	27
WISCONSIN AVE	STA 123+00 TO STA 127+33	55	55
WISCONSIN AVE	STA 133+12 TO STA 135+00	--	--
WISCONSIN AVE	STA 135+00 TO STA 141+00	105	105
WISCONSIN AVE	STA 141+00 TO STA 147+00	57	57
WISCONSIN AVE	STA 147+00 TO STA 153+00	149	149
WISCONSIN AVE	STA 153+00 TO STA 156+80	94	94
PROJECT 2190-00-70 TOTAL		558	558

REMOVING PAVEMENT

STREET	LOCATION	CAT 10 204.0100 SY
USH 18	STA 17+23.30 TO STA 22+00	3,400
USH 18	STA 22+00 TO STA 28+00	3,380
USH 18	STA 28+00 TO STA 32+63.50	4,410
N 36TH/ N 37TH		5,470
PROJECT 2190-00-71 TOTAL		16,660

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	4800
WISCONSIN AVE	STA 111+00 TO STA 117+00	5320
WISCONSIN AVE	STA 117+00 TO STA 123+00	5090
WISCONSIN AVE	STA 123+00 TO STA 127+33	3960
WISCONSIN AVE	STA 133+12 TO STA 135+00	1840
WISCONSIN AVE	STA 135+00 TO STA 141+00	5160
WISCONSIN AVE	STA 141+00 TO STA 147+00	5420
WISCONSIN AVE	STA 147+00 TO STA 153+00	5230
WISCONSIN AVE	STA 153+00 TO STA 156+80	2820
PROJECT 2190-00-70 TOTAL		39,640

BUTT JOINTS

STREET	LOCATION	CAT 10 204.0115 REMOVING ASPAHLTIC SURFACE BUTT JOINTS SY
USH 18	STA 17+23.30 TO STA 22+00	60
USH 18	STA 22+00 TO STA 28+00	40
USH 18	STA 28+00 TO STA 32+63.50	160
N 36TH/ N 37TH		--
PROJECT 2190-00-71 TOTAL		260

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	50
WISCONSIN AVE	STA 111+00 TO STA 117+00	40
WISCONSIN AVE	STA 117+00 TO STA 123+00	350
WISCONSIN AVE	STA 123+00 TO STA 127+33	850
WISCONSIN AVE	STA 133+12 TO STA 135+00	50
WISCONSIN AVE	STA 135+00 TO STA 141+00	80
WISCONSIN AVE	STA 141+00 TO STA 147+00	310
WISCONSIN AVE	STA 147+00 TO STA 153+00	130
WISCONSIN AVE	STA 153+00 TO STA 156+80	240
PROJECT 2190-00-70 TOTAL		2,100

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REMOVING CURB & GUTTER

STREET	LOCATION	CAT 10 204.0150 LF
USH 18	STA 17+23.30 TO STA 22+00	30
USH 18	STA 22+00 TO STA 28+00	40
USH 18	STA 28+00 TO STA 32+63.50	30
N 36TH/ N 37TH		10
PROJECT 2190-00-71 TOTAL		110

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	0
WISCONSIN AVE	STA 111+00 TO STA 117+00	30
WISCONSIN AVE	STA 117+00 TO STA 123+00	20
WISCONSIN AVE	STA 123+00 TO STA 127+33	50
WISCONSIN AVE	STA 133+12 TO STA 135+00	10
WISCONSIN AVE	STA 135+00 TO STA 141+00	50
WISCONSIN AVE	STA 141+00 TO STA 147+00	160
WISCONSIN AVE	STA 147+00 TO STA 153+00	60
WISCONSIN AVE	STA 153+00 TO STA 156+80	110
PROJECT 2190-00-70 TOTAL		490

REMOVING CONCRETE SIDEWALK

STREET	LOCATION	CAT 10 204.0155 SY
USH 18	STA 17+23.30 TO STA 22+00	470
USH 18	STA 22+00 TO STA 28+00	1080
USH 18	STA 28+00 TO STA 32+63.50	880
N 36TH/ N 37TH		800
PROJECT 2190-00-71 TOTAL		3,230

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	7900
WISCONSIN AVE	STA 117+00 TO STA 123+00	6810
WISCONSIN AVE	STA 123+00 TO STA 127+33	7330
WISCONSIN AVE	STA 133+12 TO STA 135+00	2280
WISCONSIN AVE	STA 135+00 TO STA 141+00	7100
WISCONSIN AVE	STA 141+00 TO STA 147+00	7780
WISCONSIN AVE	STA 147+00 TO STA 153+00	6520
WISCONSIN AVE	STA 153+00 TO STA 156+80	4690
PROJECT 2190-00-70 TOTAL		50,410

LOCATION	CAT 10 205.0501.S EXCAVATING, HAULING, AND DISPOSING OF PETROLEUM CONTAMINATED SOIL TON
29+40 - 29+90; 20' LT TO 75' LT	1212
PROJECT 2190-00-71 TOTAL	1212

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EXCAVATION COMMON

STREET	LOCATION	CAT 10 205.0100 EXCAVATION COMMON CY
USH 18	STA 17+23.30 TO STA 22+00	2,725
USH 18	STA 22+00 TO STA 28+00	2,708
USH 18	STA 28+00 TO STA 32+63.50	3,532
N 36TH N 37TH		4,383
	UNDISTRIBUTED	1,335
	PROJECT 2190-00-71 TOTAL	14,683

EARTH WORK SUMMARY

Project	Location	Excavation Common (1) (item # 205.0100)		Salvaged/Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Borrow(8)
		Cut (2)	EBS Excavation (3)				1.20 Factor			
		CY	CY	CY	CY	CY	CY	CY	CY	CY
2190-00-71	USH 18	13348	0	6642	6706	14	871	5835	12477	0

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	4,326
WISCONSIN AVE	STA 111+00 TO STA 117+00	4,794
WISCONSIN AVE	STA 117+00 TO STA 123+00	4,587
WISCONSIN AVE	STA 123+00 TO STA 127+33	3,568
WISCONSIN AVE	STA 133+12 TO STA 135+00	1,659
WISCONSIN AVE	STA 135+00 TO STA 141+00	4,650
WISCONSIN AVE	STA 141+00 TO STA 147+00	4,884
WISCONSIN AVE	STA 147+00 TO STA 153+00	4,712
WISCONSIN AVE	STA 153+00 TO STA 156+80	2,542
	UNDISTRIBUTED	3,571
	PROJECT 2190-00-70 TOTAL	39,293

EARTH WORK SUMMARY

Project	Location	Excavation Common (1) (item # 205.0100)		Salvaged/Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Borrow(8)
		Cut (2)	EBS Excavation (3)				1.20 Factor			
		CY	CY	CY	CY	CY	CY	CY	CY	CY
2190-00-70	WISC AVE	35721	0	17209	18512	851	1021	17491	34700	0

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusable Pavement Material
6) Expanded Fill. Factor = 1.20
7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material.
8) To be bid as part of base aggregated dense 1-1/4"

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BASE AGGREGATE

STREET	LOCATION	CAT 10 305.0120 BASE AGGREGATE DENSE 1-1/4 INCH TON	CAT 20 305.0120 BASE AGGREGATE DENSE 1-1/4 INCH TON
USH 18	STA 17+23.30 TO STA 22+00	--	1,160
USH 18	STA 22+00 TO STA 28+00	--	1,240
USH 18	STA 28+00 TO STA 32+63.50	--	1,450
N 36TH / N 37TH		--	1,560
	CATEGORY TOTAL	0	5,410
	PROJECT 2190-00-71 TOTAL		5,410

STREET	LOCATION		
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	1,660	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	1,750	--
WISCONSIN AVE	STA 117+00 TO STA 123+00	1,730	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	1,410	--
WISCONSIN AVE	STA 133+12 TO STA 135+00	640	--
WISCONSIN AVE	STA 135+00 TO STA 141+00	1,810	--
WISCONSIN AVE	STA 141+00 TO STA 147+00	1,900	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	2,170	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	1,020	--
	CATEGORY TOTAL	14,090	0
	PROJECT 2190-00-70 TOTAL		14,090

CONCRETE BASE

STREET	LOCATION	CAT 10 320.0125 CONCRETE BASE 6-INCH SY
USH 18	STA 17+23.30 TO STA 22+00	20
USH 18	STA 22+00 TO STA 28+00	0
USH 18	STA 28+00 TO STA 32+63.50	0
N 36TH/ N 37TH		350
	PROJECT 2190-00-71 TOTAL	370

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	--
WISCONSIN AVE	STA 117+00 TO STA 123+00	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	--
WISCONSIN AVE	STA 133+12 TO STA 135+00	--
WISCONSIN AVE	STA 135+00 TO STA 141+00	--
WISCONSIN AVE	STA 141+00 TO STA 147+00	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	--
	PROJECT 2190-00-70 TOTAL	0

CONCRETE DRIVEWAY

STREET	LOCATION	CAT 10 416.0170 CONCRETE DRIVEWAY 7-INCH SY
USH 18	STA 17+23.30 TO STA 22+00	110
USH 18	STA 22+00 TO STA 28+00	80
USH 18	STA 28+00 TO STA 32+63.50	90
N 36TH/ N 37TH		90
	PROJECT 2190-00-71 TOTAL	370

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	80
WISCONSIN AVE	STA 111+00 TO STA 117+00	60
WISCONSIN AVE	STA 117+00 TO STA 123+00	170
WISCONSIN AVE	STA 123+00 TO STA 127+33	50
WISCONSIN AVE	STA 133+12 TO STA 135+00	20
WISCONSIN AVE	STA 135+00 TO STA 141+00	350
WISCONSIN AVE	STA 141+00 TO STA 147+00	170
WISCONSIN AVE	STA 147+00 TO STA 153+00	220
WISCONSIN AVE	STA 153+00 TO STA 156+80	100
	PROJECT 2190-00-70 TOTAL	1,220

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CONCRETE PAVEMENT ITEMS

STREET	LOCATION	CAT 10 415.0080 CONCRETE PAVEMENT 8-INCH SY	CAT 20 415.0080 CONCRETE PAVEMENT 8-INCH SY	CAT 10 415.0210 CONCRETE PAVEMENT GAPS EACH	CAT 20 SPV.0180.001 JOINT SEALING SY	CAT 40 SPV.0180.001 JOINT SEALING SY
USH 18	STA 17+23.30 TO STA 22+00	--	3,200	--	--	3,200
USH 18	STA 22+00 TO STA 28+00	--	3,160	--	--	3,160
USH 18	STA 28+00 TO STA 32+63.50	--	3,620	4	--	3,620
N 36TH/ N 37TH		--	3,630	--	--	3,630
	CATEGORY TOTAL	0	13,610	4	0	13,610
	PROJECT 2190-00-71 TOTAL		13,610	4		13,610
STREET	LOCATION					
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	3,840	--	--	3,840	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	4,430	--	--	4,430	--
WISCONSIN AVE	STA 117+00 TO STA 123+00	4,380	--	--	4,380	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	3,430	--	--	3,430	--
WISCONSIN AVE	STA 133+12 TO STA 135+00	1,620	--	--	1,620	--
WISCONSIN AVE	STA 135+00 TO STA 141+00	4,390	--	1	4,390	--
WISCONSIN AVE	STA 141+00 TO STA 147+00	4,660	--	1	4,660	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	4,600	--	--	4,600	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	2,390	--	--	2,390	--
	CATEGORY TOTAL	33,740	0	2	33,740	0
	PROJECT 2190-00-70 TOTAL		33,740	2		33,740

TIE BARS AND DOWEL BARS

STREET	LOCATION	CAT 10 DRILLED TIE BARS 416.0610 EACH	CAT 10 DRILLED DOWEL BARS 416.0620 EACH
USH 18	STA 17+23.30 TO STA 22+00	--	32
USH 18	STA 22+00 TO STA 28+00	--	--
USH 18	STA 28+00 TO STA 32+63.50	16	96
N 36TH		--	8
N 37TH		--	16
	PROJECT 2190-00-71 TOTAL	16	152
STREET	LOCATION		
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	--	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	--	--
WISCONSIN AVE	STA 117+00 TO STA 123+00	--	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	--	32
WISCONSIN AVE	STA 133+12 TO STA 135+00	--	32
WISCONSIN AVE	STA 135+00 TO STA 141+00	12	--
WISCONSIN AVE	STA 141+00 TO STA 147+00	12	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	--	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	--	32
	PROJECT 2190-00-70 TOTAL	24	96

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CONCRETE CURB AND GUTTER

STREET	LOCATION	CAT 10 601.0331 CONCRETE CURB & GUTTER 31-INCH LF	CAT 10 601.0319 CONCRETE CURB & GUTTER 19-INCH LF	CAT 10 601.0600 CONCRETE CURB PEDESTRIAN LF	CAT 10 SPV.0090.008 CONCRETE CURB & GUTTER INTEGRAL 19-INCH LF
USH 18	STA 17+23.30 TO STA 22+00	80	--	20	520
USH 18	STA 22+00 TO STA 28+00	1080	--	70	100
USH 18	STA 28+00 TO STA 32+63.50	880	125	60	315
N 36TH/ N 37TH		1050	--	--	970
PROJECT 2190-00-71 TOTAL		3,090	125	150	1,905

STREET	LOCATION				
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	1140	--	90	110
WISCONSIN AVE	STA 111+00 TO STA 117+00	1080	--	30	480
WISCONSIN AVE	STA 117+00 TO STA 123+00	1110	--	0	420
WISCONSIN AVE	STA 123+00 TO STA 127+33	820	--	30	290
WISCONSIN AVE	STA 133+12 TO STA 135+00	350	--	70	170
WISCONSIN AVE	STA 135+00 TO STA 141+00	1250	--	110	100
WISCONSIN AVE	STA 141+00 TO STA 147+00	1100	--	50	600
WISCONSIN AVE	STA 147+00 TO STA 153+00	1480	--	40	490
WISCONSIN AVE	STA 153+00 TO STA 156+80	760	--	0	90
PROJECT 2190-00-70 TOTAL		9,090	0	420	2,750

CONCRETE WALK

STREET	LOCATION	CAT 10 602.0410 CONCRETE WALK 5-INCH SF	CAT 10 602.0515 CURB RAMP DWF NATURAL PATINA SF
USH 18	STA 17+23.30 TO STA 22+00	2,980	40
USH 18	STA 22+00 TO STA 28+00	9060	60
USH 18	STA 28+00 TO STA 32+63.50	6770	60
N 36TH/ N 37TH		1880	20
PROJECT 2190-00-71 TOTAL		20,690	180

STREET	LOCATION		
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	7000	50
WISCONSIN AVE	STA 111+00 TO STA 117+00	7900	120
WISCONSIN AVE	STA 117+00 TO STA 123+00	6810	90
WISCONSIN AVE	STA 123+00 TO STA 127+33	7330	130
WISCONSIN AVE	STA 133+12 TO STA 135+00	2280	40
WISCONSIN AVE	STA 135+00 TO STA 141+00	7100	60
WISCONSIN AVE	STA 141+00 TO STA 147+00	7780	120
WISCONSIN AVE	STA 147+00 TO STA 153+00	6520	160
WISCONSIN AVE	STA 153+00 TO STA 156+80	4690	50
PROJECT 2190-00-70 TOTAL		57,410	820

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CONCRETE MEDIAN SLOPE NOSE

STREET	LOCATION	CAT 10 620.0300 CONCRETE MEDIAN SLOPE NOSE SF
USH 18	STA 17+23.30 TO STA 22+00	0
USH 18	STA 22+00 TO STA 28+00	0
USH 18	STA 28+00 TO STA 32+63.50	60
N 36TH/N 37TH		200
PROJECT 2190-00-71 TOTAL		260

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	100
WISCONSIN AVE	STA 111+00 TO STA 117+00	80
WISCONSIN AVE	STA 117+00 TO STA 123+00	10
WISCONSIN AVE	STA 123+00 TO STA 127+33	80
WISCONSIN AVE	STA 133+12 TO STA 135+00	20
WISCONSIN AVE	STA 135+00 TO STA 141+00	60
WISCONSIN AVE	STA 141+00 TO STA 147+00	30
WISCONSIN AVE	STA 147+00 TO STA 153+00	60
WISCONSIN AVE	STA 153+00 TO STA 156+80	10
PROJECT 2190-00-70 TOTAL		450

ASPHALT PAVING ITEMS

STREET	LOCATION	CAT 10 TACK COAT 455.0605 GAL	CAT 10 ASPHALTIC SURFACE 465.0105 TON
USH 18	STA 17+23.30 TO STA 22+00	2	10
USH 18	STA 22+00 TO STA 28+00	2	20
USH 18	STA 28+00 TO STA 32+63.50	4	40
N 36TH/ N 37TH		8	40
	UNDISTRIBUTED	2	15
PROJECT 2190-00-71 TOTAL		18	125

STREET	LOCATION		
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	1	10
WISCONSIN AVE	STA 111+00 TO STA 117+00	1	10
WISCONSIN AVE	STA 117+00 TO STA 123+00	3	10
WISCONSIN AVE	STA 123+00 TO STA 127+33	3	10
WISCONSIN AVE	STA 133+12 TO STA 135+00	1	0
WISCONSIN AVE	STA 135+00 TO STA 141+00	2	50
WISCONSIN AVE	STA 141+00 TO STA 147+00	9	50
WISCONSIN AVE	STA 147+00 TO STA 153+00	4	20
WISCONSIN AVE	STA 153+00 TO STA 156+80	6	40
WISCONSIN AVE	UNDISTRIBUTED	10	160
PROJECT 2190-00-70 TOTAL		40	360

3

CONSTRUCTION STAKING

STREET	LOCATION	CAT 10 650.4000 CONSTRUCTION STAKING STORM SEWER EACH	CAT 10 650.4500 CONSTRUCTION STAKING SUBGRADE LF	CAT 10 650.5500 CONSTRUCTION STAKING CURB & GUTTER LF	CAT 10 650.7000 CONSTRUCTION STAKING CONC PAVEMENT LF	CAT 10 650.9000 CONSTRUCTION STAKING CURB RAMP EACH	CAT 10 SPV.0090.005 CONSTRUCTION STAKING CONC. SIDEWALK LF
USH 18	STA 17+23.30 TO STA 22+00		954	600	954	4	497
USH 18	STA 22+00 TO STA 28+00		1,200	1,180	1,200	10	1,510
USH 18	STA 28+00 TO STA 32+63.50		927	1,320	927	8	1,128
N 36TH / N37TH			484	2,020	484	--	313
PROJECT 2190-00-71 TOTAL		28	3,565	5,120	3,565	22	3,448
STREET	LOCATION						
WISCONSIN AVE	STA 105+63.50 TO STA 111+00		1,073	1,250	1,073	6	1,167
WISCONSIN AVE	STA 111+00 TO STA 117+00		1,200	1,560	1,200	20	1,317
WISCONSIN AVE	STA 117+00 TO STA 123+00		1,200	1,530	1,200	11	1,135
WISCONSIN AVE	STA 123+00 TO STA 127+33		1,200	1,110	1,200	20	1,222
WISCONSIN AVE	STA 133+12 TO STA 135+00		1,200	520	1,200	6	380
WISCONSIN AVE	STA 135+00 TO STA 141+00		1,200	1,350	1,200	8	1,183
WISCONSIN AVE	STA 141+00 TO STA 147+00		1,200	1,700	1,200	16	1,297
WISCONSIN AVE	STA 147+00 TO STA 153+00		1,200	1,970	1,200	10	1,087
WISCONSIN AVE	STA 153+00 TO STA 156+80		760	850	760	6	782
PROJECT 2190-00-70 TOTAL		59	10,233	11,840	10,233	103	9,570

CONSTRUCTION STAKING

LOCATION	CAT 10 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL PROJECT 2190-00-70 650.9910.001 EACH	CAT 10 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL PROJECT 2190-00-71 650.9910.002 EACH
USH 18	--	1
WISCONSIN AVE	1	--
TOTAL	1	1

EROSION CONTROL

STREET	LOCATION	CAT 10 623.0200 DUST CONTROL SURFACE TREATMENT SY	CAT 10 625.0100 TOPSOIL SY	CAT 10 631.1000 SOD LAWN SY
USH 18	STA 17+23.30 TO STA 22+00	3,200	30	30
USH 18	STA 22+00 TO STA 28+00	3160	60	60
USH 18	STA 28+00 TO STA 32+63.50	3620	680	680
N 36TH/ N 37TH		3630	1350	1350
PROJECT 2190-00-71 TOTAL		13,610	2,120	2,120

STREET	LOCATION			
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	3840	1520	1520
WISCONSIN AVE	STA 111+00 TO STA 117+00	4430	1090	1090
WISCONSIN AVE	STA 117+00 TO STA 123+00	4380	860	860
WISCONSIN AVE	STA 123+00 TO STA 127+33	3430	450	450
WISCONSIN AVE	STA 133+12 TO STA 135+00	1620	200	200
WISCONSIN AVE	STA 135+00 TO STA 141+00	4390	950	950
WISCONSIN AVE	STA 141+00 TO STA 147+00	4660	540	540
WISCONSIN AVE	STA 147+00 TO STA 153+00	4660	890	890
WISCONSIN AVE	STA 153+00 TO STA 156+80	2390	790	790
PROJECT 2190-00-70 TOTAL		33,800	7,290	7,290

INLET PROTECTION

STREET	LOCATION	CAT 10 628.7005 TYPE A EACH	CAT 10 628.7010 TYPE B EACH	CAT 10 628.7015 TYPE C EACH
USH 18	STA 17+23.30 TO STA 22+00	6	--	8
USH 18	STA 22+00 TO STA 28+00	7	1	7
USH 18	STA 28+00 TO STA 32+63.50	6	--	7
N 36TH/N 37TH		6	2	6
BLUE MOUND		--	--	2
PROJECT 2190-00-71 TOTAL		25	3	30

STREET	LOCATION			
WISCONSIN AVE	STA 104+00 TO STA 111+00	9	--	12
WISCONSIN AVE	STA 111+00 TO STA 117+00	9	--	9
WISCONSIN AVE	STA 117+00 TO STA 123+00	6	--	6
WISCONSIN AVE	STA 123+00 TO STA 127+33	10	--	11
WISCONSIN AVE	STA 133+12 TO STA 135+00	4	--	4
WISCONSIN AVE	STA 135+00 TO STA 141+00	7	--	7
WISCONSIN AVE	STA 141+00 TO STA 147+00	4	1	4
WISCONSIN AVE	STA 147+00 TO STA 153+00	6	1	6
WISCONSIN AVE	STA 153+00 TO STA 156+80	3	1	3
PROJECT 2190-00-70 TOTAL		58	3	62

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MOBILIZATION

LOCATION	CAT 10 619.1000 MOBILIZATION EACH
PROJECT 2190-00-71	0.25
PROJECT 2190-00-70	0.75
TOTAL	1

LANDMARK REFERENCE MONUMENT

STREET	LOCATION	CAT 10 621.0100 EACH
USH 18	STA 30+33.00	1
PROJECT 2190-00-71 TOTAL		1

STREET	LOCATION	
WISCONSIN AVE	STA 156+28.88	1
PROJECT 2190-00-70 TOTAL		1

EROSION CONTROL MOBILIZATION

LOCATION	CAT 10 MOBILIZATIONS EROSION CONTROL 628.1905 EACH	CAT 10 MOBILIZATIONS EMERGENCY EROSION CONTROL 628.1910 EACH
USH 18	3	9
PROJECT 2190-00-71 TOTAL	3	9

LOCATION		
WISCONSIN AVE	3	9
PROJECT 2190-00-70 TOTAL	3	9

3

FIELD OFFICE

LOCATION	CAT 10 642.5401 FIELD OFFICE TYPE D EACH
PROJECT 2190-00-71	0.25
PROJECT 2190-00-70	0.75
TOTAL	1

TRAFFIC CONTROL

LOCATION	CAT 10 643.5000 TRAFFIC CONTROL EACH
PROJECT 2190-00-71	0.25
PROJECT 2190-00-70	0.75
TOTAL	1

FINISHING ROADWAY

LOCATION	CAT 10 FINISHING ROADWAY PROJECT 2190-00-71 213.0100.002 EACH
PROJECT - USH 18	1
PROJECT 2190-00-71 TOTAL	1

LOCATION	CAT 10 FINISHING ROADWAY PROJECT 2190-00-70 213.0100.001 EACH
PROJECT - WISCONSIN AVE	1
PROJECT 2190-00-70 TOTAL	1

STORM SEWER ITEMS

2190-00-71

CATEGORY 10 — USH 18 — SSPR CONCRETE CLASS III 12-INCH

STRUCTURE NUMBER	LOCATION STATION	LOCATION OFFSET	COVER ELEV.	STRUCT. TYPE	LID TYPE	CONNECTION STRUCTURE	LENGTH (FT)	INVERT ELEV. INLET	INVERT ELEV. OUTLET	SLOPE FT/FT	REMARKS
1	17+39	59' LT	91.41	45A	57	Storm MH@17+40, 8' LT	50	88.00	87.00	0.020	Protect Telephone, Fiber Optic
2	18+44.5	58' LT	92.22	45A	57	Storm MH@18+65, 41' LT	27	88.55	88.00	0.020	Protect Sanitary Manhole, Telephone, Fiber Optic, and CUC
3	21+04	59' LT	93.95	45A	57	Storm MH@21+05, 41' LT	18	90.80	90.00	0.044	Protect & Support CUC, Reuse Type 57 Frame & Lid
4	21+12	40' RT	94.10	45A	57	Storm MH@21+24, 24' RT	20	89.20	88.70	0.025	
5	21+42.3	46.5' RT	94.55	45A	57	Storm MH@21+24, 24' RT	28	91.45	90.85	0.021	Protect & Support Electric and Water Valves
6	21+75	24' RT	95.70	4'-0" MH	57	Storm MH@21+24, 24' RT	10	Match Existing Slope			Use Precast MH; Corbel to Curbline
7	23+21.6	24' RT	100.65	45A	57	Storm MH@23+17, 18' RT	7	97.50	97.30	0.029	Reuse Type 57 Frame & Lid
8	23+75	59' LT	101.80	45A	57	Comb MH@23+89, 55' LT	14	97.50	97.05	0.032	
9	202+29.2	7' RT	104.65	45A	57	Storm MH@25+20, 129' LT	37	99.00	98.00	0.027	Protect & Support Electrical, Gas, & Telephone
10	203+99	7' RT	104.70	45A	57	Storm MH@25+33, 277' LT	54	100.00	98.00	0.037	Protect & Support Electrical, Gas, & Telephone
11	25+12.5	61' LT	104.92	45A	57	Storm MH@25+19, 53' LT	10	101.80	101.50	0.030	
12	304+29.6	60.1' LT	105.80	45A	57	Storm MH@25+19, 246' LT	18	101.00	100.00	0.056	Protect & Support Electrical
13	25+25	24' RT	104.67	45A	57	Storm MH@25+19, 14' LT	11	101.55	101.00	0.050	
14	304+97.5	22' RT	105.35	45A	57	Storm MH@25+33, 277' LT	40	101.00	100.00	0.025	
15	304+36	7' LT	105.45	45A	57	Storm MH@25+19, 246' LT	43	101.50	100.00	0.035	Protect & Support Electrical, CUC
15A	25+87	15' RT	105.30	4'-0" MH	58A						
15B	25+87.5	24' RT	104.88	45A	57	Storm MH @ 25+87, 15' RT	8	101.80	101.60	0.025	
16	302+60.9	60' LT	106.06	45A	57	Storm MH@26+14 ,52' LT	43	102.80	101.75	0.024	
17	26+98	91' LT	105.40	45A	57	Storm MH@27+10, 52' LT	41	102.30	101.00	0.032	Protect Water Valve
18	27+60	62' LT	104.85	45A	57	Storm MH@27+10, 52' LT	51	101.75	100.60	0.023	
19	28+73.3	25' RT	104.51	44A	57	Combined MH@28+90, 18' LT	46	100.25	99.00	0.027	
20	28+90	17.2' LT	105.24	4'-0" MH	58A			90.13	90.13		New Manhole Needed, Rim elev. Estimated
21	29+58	62' LT	104.46	44A	57	Combined MH@29+81, 18' LT	49	100.05	98.90	0.023	Protect & Support CUC, 6" WM
22	29+85	25' RT	103.90	44A	57	Combined MH@29+81, 18' LT	43	99.65	98.75	0.021	
23	30+01	85' LT	104.60	44A	57	Combined MH@30+32, 81' LT	31	100.35	99.65	0.023	Protect & Support Electric, 30" Water Main just below crossing
24	30+64.7	85.9' LT	104.03	44A	57	Combined MH@30+32, 81' LT	32	99.30	98.50	0.025	Protect & Support CUC, 8" Gas Main
25	32+26.5	21' RT	102.34	44A	57	Combined MH@105+28, 16' LT	37	98.00	97.00	0.027	Protect 4" Gas
26	32+29	56.4' LT	102.28	44A	57	Combined MH@105+28, 16' LT	39	93.00	90.00	0.077	Protect CUC, Electric, 6" WM is just below grade

3

STORM SEWER ITEMS

CATEGORY 10 STRUCTURE NUMBER	2190-00-70 WISC AVE LOCATION STATION	OFFSET	COVER ELEV.	STRUCT. TYPE	LID TYPE	CONNECTION STRUCTURE	SSPR CONCRETE CLASS III 12-INCH LENGTH (FT)	INVERT ELEV. INLET	OUTLET	SLOPE FT/FT	REMARKS
27	107+12.7	55' LT	101.14	44A	57	Combined MH@107+12, 17' LT	38	93.00	90.00	0.079	Pipe Crosses over 42" WM - Protect & Support CUC & Electric
28	107+17	21' RT	101.00	44A	57	Combined MH@107+12, 17' LT	38	96.20	95.00	0.032	
29	107+38	77.3' LT	100.85	44A	57	Combined MH@ 107+53, 77' LT	15	95.70	95.20	0.033	
30	107+68	77.8' LT	100.80	44A	57	Combined MH@ 107+53, 77' LT	15	96.55	96.00	0.037	
31	109+75	55' LT	98.95	44A	57	Combined MH@ 109+75, 17' LT	38	91.50	90.00	0.039	Protect & Support CUC, Electric, 8" Water, 42" Water
32	109+77	21' RT		44A	57	Combined MH@ 109+75, 17' LT	38	95.00	93.75	0.033	Protect & Support 4" Gas & 12" Water Main
33	111+74.5	55' LT	97.50	44A	57	Combined MH@ 111+75, 17' LT	38	90.00	87.50	0.066	Protect CUC, Electric, 42" Water Main, and 8" Water Main
34	112+02	77.3' LT	97.50	44A	57	Combined MH@ 112+17, 76' LT	15	92.50	92.00	0.033	Proect & Support Electric
35	112+31.1	76.8' LT	97.35	44A	57	Combined MH@ 112+17, 76' LT	13	93.00	92.50	0.038	Protect & Support CUC
36	112+95	21' RT	96.70	44A	57	Combined MH@ 112+63, 17' LT	50	92.45	91.00	0.029	Protect & Support 6" Gas
37	113+40	55' LT	96.42	44A	57	Combined MH@ 113+84, 18' LT	57	90.00	86.80	0.056	Protect & Support CUC, Electric, 8" Water, 42" Water
38	113+95	21' RT	96.28	44A	57	Combined MH@ 113+84, 18' LT	40	92.00	91.00	0.025	Protect & Support 6" Gas
39	115+31.1	77' LT	97.45	44A	57	Combined MH@ 115+47, 82' LT	17	93.20	92.80	0.024	
40	115+61	77' LT	97.45	44A	57	Combined MH@ 115+47, 82' LT	15	93.20	92.85	0.023	
41	115+95	55' LT	97.37	44A	57	Combined MH@ 115+92, 16' LT	39	91.00	88.00	0.077	Protect & Support CUC, Electric, 8" Water, 42" Water
42	116+95	21' RT	97.85	44A	57	Combined MH@ 116+94, 18' LT	39	93.60	92.50	0.028	Protect & Support 6" Gas Main
43	117+25	55' LT	98.42	44A	57	Combined MH@ 116+94, 18' LT	48	91.50	88.30	0.067	Protect & Support CUC, Electric, 8" Water, 42" Water
44	120+24	55' LT	101.25	44A	57	Combined MH@ 120+28, 16' LT	39	93.00	90.00	0.077	Protect CUC, Electric
45	120+25	21' RT	100.75	44A	57	Combined MH@ 120+28, 16' LT	37	96.50	95.25	0.034	Protect 3" Gas
46	121+84.5	77' LT	102.76	44A	57	Combined MH@ 121+99, 79' LT	14	97.00	96.50	0.036	Protect & Support 3" Gas
47	122+14.6	72' LT	102.48	44A	57	Combined MH@ 121+99, 79' LT	16	97.75	97.20	0.034	Protect & Support Electric
48	122+40	55' LT	102.97	44A	57	Combined MH@ 122+46, 18' LT	37	96.00	94.00	0.054	Protect CUC, TE&ES, and Electric
49	123+26.5	14' LT	104.20	44A	57	Combined MH@ 123+38, 17' LT	12	99.90	99.65	0.021	
50	123+35	21' RT	103.01	44A	57	Combined MH@ 123+38, 17' LT	38	98.70	97.90	0.021	Protect 3" Gas
51	124+14.2	82.5' LT	104.80	44A	57	Combined MH@ 124+26, 80' LT	12	100.55	100.00	0.046	
52	124+38.3	82.5' LT	104.69	44A	57	Combined MH@ 124+26, 81' LT	12	100.40	100.00	0.033	
53	124+55	21' RT	104.37	44A	57	Combined MH@ 124+83, 47' LT	48	100.10	99.00	0.023	Protect 3" Gas
54	124+56	55' LT	104.30	44A	57	Combined MH@ 124+26, 47' LT	31	99.00	98.00	0.032	Protect & Support TE&ES MH
55	126+38.6	78' LT	106.19	44A	57	Combined MH@ 126+57, 77' LT	18	101.50	100.75	0.042	Protect & Support 4" Gas, 4" Water Mains
56	126+49	21' RT	106.30	44A	57	Combined MH@ 126+50, 17' LT	38	101.50	100.50	0.026	Protect 3" Gas
57	126+74.8	94.5' LT	106.23	44A	57	Combined MH@ 126+57, 77' LT	24	101.95	101.40	0.023	
58	127+00.5	55.8' LT	106.58	44A	57	Combined MH@ 126+50, 17' LT	63	102.25	100.00	0.036	Protect & Support CUC, Electrical
59	133+95.5	74.5' LT	117.55	44A	57	Combined MH@ 133+76, 78' LT	19	113.30	112.80	0.026	
60	134+15	14' LT	117.80	44A	57	Combined MH@ 134+20, 16' LT	11	113.20	113.00	0.018	
61	134+14	21' RT	116.65	44A	57	Combined MH@ 134+20, 16' LT	37	112.40	111.55	0.023	Protect & Support TE&ES
62	134+18	55' LT	117.07	44A	57	Combined MH@ 134+20, 16' LT	38	111.80	111.10	0.018	Protect & Support Electric
63	137+22.5	80.2' LT	122.95	44A	57	Combined MH@137+38, 79' LT	14	118.40	117.90	0.036	
64	137+54.5	81.2' LT	123.10	44A	57	Combined MH@137+38, 79' LT	16	118.85	118.50	0.022	
65	137+71.5	14' LT	123.00	44A	57	Combined MH@137+79, 3' LT	13	118.75	118.45	0.023	Protect & Support TE&ES
66	137+72	54' LT	123.40	44A	57	Combined MH@137+38, 44' LT	35	119.15	118.40	0.021	Protect & Support TE&ES
67	137+75	21' RT	121.85	44A	57	Combined MH@137+79, 3' LT	24	117.40	116.90	0.021	
68	140+57	55' LT	127.15	44A	57	Combined MH@140+63, 5' LT	50	120.30	118.00	0.046	Protect Electric Conduit
69	140+69	21' RT	127.15	44A	57	Combined MH@140+63, 5' LT	27	122.80	122.20	0.022	
70	143+48	21' RT	129.15	44A	57	Combined MH@143+29, 17' LT	42	124.50	123.50	0.024	Protect 4" Gas
71	143+50	55' LT	129.27	44A	57	Combined MH@143+29, 17' LT	43	119.95	119.00	0.022	Protect 2" Gas, Electric
71A	145+01	17.1' LT	129.50	44A	55	Combined MH@145+07, 18' LT	7	125.25	125.00	0.036	
72	145+98.5	21' RT	127.36	44A	57	Combined MH@145+94, 16' LT	37	120.00	119.00	0.027	Protect 4" Gas, 16" Water Main, TE&ES
73	146+00	55' LT	127.37	44A	57	Combined MH@145+94, 16' LT	39	117.80	117.20	0.015	Protect Electric Conduit, TE&ES
74	148+91	55' LT	125.28	44A	57	Combined MH@148+87, 16' LT	39	118.90	117.00	0.049	
75	148+95	20' LT	126.15	44A	57	Combined MH@148+87, 16' LT	10	118.90	118.50	0.040	Protect Electric Conduit
76	148+95	21' RT	125.60	44A	57	Combined MH@148+87, 16' LT	38	119.00	118.00	0.026	Protect 4" Gas, 16" Water Main
77	151+07	17' LT	124.90	44A	57	Combined MH@151+28, 5' LT	24	120.60	120.00	0.025	
78	151+80	21' RT	123.50	44A	57	Combined MH@151+86, 3' LT	25	119.25	118.50	0.030	
79	151+91	55' LT	123.24	44A	57	Combined MH@151+92, 20' LT	35	116.95	116.20	0.021	Protect Electric Conduit
80	151+92.4	20' LT	124.19	4'-0" MH	57	Combined MH@151+86, 3' LT	18	115.95	115.00	0.053	With Inlet Grate, Protect & Support TE&ES
81	154+20.5	21' RT	119.24	44A	57	Combined MH@154+36,, 5' LT	30	113.90	113.00	0.030	
82	155+33	55' LT	116.91	44A	57	Combined MH@155+30, 3' LT	51	113.10	111.50	0.031	Protect Electric Conduit
83	155+83	14' LT	115.50	44A	55	Combined MH@55+92, 21' RT	14	111.15	110.80	0.025	
84	155+90	21' RT	113.90	44A	57	Combined MH@155+92, 3' LT	24	109.65	109.15	0.021	

REMOVING INLETS

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	CAT 10 204.0220 EACH
100	USH 18	17+39	59' LT	1
102	USH 18	18+45	58' LT	1
104	USH 18	20+36	59' LT	1
105	USH 18	21+04	59' LT	1
106	USH 18	21+12	40' RT	1
107	USH 18	21+42	38' RT	1
108A	USH 18	21+67	24' RT	1
108	USH 18	23+22	23' RT	1
109	USH 18	23+75	58' LT	1
110	USH 18	24+84	129' LT	1
111	USH 18	24+84	300' LT	1
112	USH 18	25+03	73' LT	1
113	USH 18	25+28	56' LT	1
114	USH 18	25+32	23' RT	1
115	USH 18	25+43	294' LT	1
119	USH 18	26+45	23' RT	1
120	USH 18	26+97	91' LT	1
121	USH 18	27+35	77' LT	1
122	USH 18	28+73	25' RT	1
123	USH 18	29+81	76' LT	1
124	USH 18	29+92	25' RT	1
125	USH 18	30+01	94' LT	1
126	USH 18	30+64	73' LT	1
PROJECT 2190-00-71 TOTAL				23

ADJUST MANHOLE COVER

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	COVER ELEVATION	CAT 10 611.8110 EACH	CAT 40 611.8110 EACH
200	USH 18	17+40	8' LT	91.72	1	--
300	USH 18	18+61	43' LT	92.83	1	--
201	USH 18	18+65	41' LT	92.91	1	--
202	USH 18	20+37	42' LT	94.00	1	--
301	USH 18	21+01	8' RT	94.22	-	1*
203	USH 18	21+05	41' LT	94.55	1	--
204	USH 18	21+18	38' LT	94.93	1	--
205	USH 18	21+24	24' RT	94.42	1	--
302	USH 18	21+26	44' LT	95.00	-	1*
303	USH 18	21+30	18' RT	94.60	-	1*
205A	USH 18	22+69	39' LT	99.25	1	--
303A	USH 18	22+77	49' LT	99.13	-	1*
206	USH 18	23+17	18' RT	100.60	1	--
304	USH 18	23+81	14' RT	102.64	-	1*
207	USH 18	23+89	55' LT	102.35	1	--
208	USH 18	24+50	24' RT	104.70	1	--
209	USH 18	24+82	56' LT	104.70	1	--
210	USH 18	25+14	254' LT	105.85	1	--
211	USH 18	25+17	14' LT	105.60	1	--
212	USH 18	25+19	53' LT	105.29	1	--
213	USH 18	25+19	246' LT	106.00	1	--
214	USH 18	25+19	14' RT	105.12	1	--
215	USH 18	25+20	28' RT	105.25	1	--
216	USH 18	25+20	129' LT	105.64	1	--
217	USH 18	25+33	277' LT	105.90	1	--
218	USH 18	25+34	15' LT	105.65	1	--
219	USH 18	25+52	25' RT	105.36	1	--
220	USH 18	25+75	229' LT	105.85	1	--
221	USH 18	26+14	52' LT	105.88	1	--
221A	USH 18	26+35	16' RT	105.48	1	--
222	USH 18	27+10	52' LT	105.57	1	--
223	USH 18	27+57	15' LT	106.51	1	--
224	USH 18	29+81	18' LT	104.84	1	--
225	USH 18	30+32	81' LT	104.90	1	--
226	USH 18	30+33	56' RT	103.59	1	--
227	USH 18	30+84	17' LT	104.06	1	--
CATEGORY TOTAL					31	5
PROJECT 2190-00-71 TOTAL					36	

* REQUIRES INTERNAL SANITARY MANHOLE SEAL, PAY ITEM SPV.0060.021

REMOVING INLETS

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	CAT 10 204.0220 EACH
127	W. WISCONSIN AVE.	105+26.5	21' RT	1
128	W. WISCONSIN AVE.	105+29	55' LT	1
129	W. WISCONSIN AVE.	107+13	55' LT	1
130	W. WISCONSIN AVE.	107+28	18' RT	1
131	W. WISCONSIN AVE.	107+38	77' LT	1
132	W. WISCONSIN AVE.	107+68	77' LT	1
133	W. WISCONSIN AVE.	109+75	55' LT	1
134	W. WISCONSIN AVE.	109+77	21' RT	1
135	W. WISCONSIN AVE.	111+75	55' LT	1
136	W. WISCONSIN AVE.	112+02	78' LT	1
137	W. WISCONSIN AVE.	112+30	77' LT	1
138	W. WISCONSIN AVE.	112+56	55' LT	1
139	W. WISCONSIN AVE.	112+86	21' RT	1
140	W. WISCONSIN AVE.	113+65	21' RT	1
141	W. WISCONSIN AVE.	113+86	55' LT	1
142	W. WISCONSIN AVE.	114+36	21' RT	1
143	W. WISCONSIN AVE.	115+31	77' LT	1
144	W. WISCONSIN AVE.	115+61	77' LT	1
145	W. WISCONSIN AVE.	115+85	55' LT	1
146	W. WISCONSIN AVE.	116+95	21' RT	1
147	W. WISCONSIN AVE.	118+01	55' LT	1
148	W. WISCONSIN AVE.	118+23	21' RT	1
149	W. WISCONSIN AVE.	120+24	55' LT	1
150	W. WISCONSIN AVE.	120+25	21' RT	1
151	W. WISCONSIN AVE.	121+52	21' RT	1
152	W. WISCONSIN AVE.	121+85	77' LT	1
153	W. WISCONSIN AVE.	122+14	72' LT	1
154	W. WISCONSIN AVE.	122+32	55' LT	1
156	W. WISCONSIN AVE.	124+14	77' LT	1
157	W. WISCONSIN AVE.	124+38	77' LT	1
158	W. WISCONSIN AVE.	124+55	21' RT	1
159	W. WISCONSIN AVE.	124+56	55' LT	1
160	W. WISCONSIN AVE.	126+39	78' LT	1
161	W. WISCONSIN AVE.	126+49	21' RT	1
162	W. WISCONSIN AVE.	126+75	74' LT	1

REMOVING INLETS

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	CAT 10 204.0220 EACH
163	W. WISCONSIN AVE.	127+00	55' LT	1
164	W. WISCONSIN AVE.	133+95	74' LT	1
165	W. WISCONSIN AVE.	134+06	22' RT	1
166	W. WISCONSIN AVE.	134+09	13' LT	1
167	W. WISCONSIN AVE.	134+18	55' LT	1
168	W. WISCONSIN AVE.	135+25	23' LT	1
169	W. WISCONSIN AVE.	135+26	13' LT	1
170	W. WISCONSIN AVE.	137+24	80' LT	1
171	W. WISCONSIN AVE.	137+54	81' LT	1
172	W. WISCONSIN AVE.	137+75	22' RT	1
173	W. WISCONSIN AVE.	137+78	55' LT	1
174	W. WISCONSIN AVE.	137+86	14' LT	1
175	W. WISCONSIN AVE.	138+83	17' LT	1
176	W. WISCONSIN AVE.	140+57	56' LT	1
177	W. WISCONSIN AVE.	140+69	22' RT	1
178	W. WISCONSIN AVE.	143+38	55' LT	1
179	W. WISCONSIN AVE.	143+48	22' RT	1
180	W. WISCONSIN AVE.	145+00	17' LT	1
181	W. WISCONSIN AVE.	145+98	22' RT	1
182	W. WISCONSIN AVE.	146+00	56' LT	1
183	W. WISCONSIN AVE.	148+81	20' LT	1
184	W. WISCONSIN AVE.	148+91	56' LT	1
185	W. WISCONSIN AVE.	148+95	22' RT	1
186	W. WISCONSIN AVE.	151+07	17' LT	1
187	W. WISCONSIN AVE.	151+80	22' RT	1
188	W. WISCONSIN AVE.	151+91	56' LT	1
189	W. WISCONSIN AVE.	151+98	20' LT	1
190	W. WISCONSIN AVE.	154+21	22' RT	1
191	W. WISCONSIN AVE.	155+33	56' LT	1
192	W. WISCONSIN AVE.	155+83	14' LT	1
193	W. WISCONSIN AVE.	155+90	22' RT	1
		PROJECT 2190-00-70 TOTAL		66

3

ADJUST MANHOLE COVER

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	COVER ELEVATION	CAT 10 611.8110 EACH	CAT 20 611.8110 EACH
228	W WISC AVE	105+28	16' LT	103.60	1	--
229	W WISC AVE	107+12	17' LT	102.22	1	--
230	W WISC AVE	107+53	78' LT	101.35	1	--
231	W WISC AVE	107+92	17' LT	101.90	1	--
232	W WISC AVE	109+75	17' LT	100.35	1	--
233	W WISC AVE	111+75	17' LT	98.87	1	--
234	W WISC AVE	112+17	77' LT	97.82	1	--
235	W WISC AVE	112+63	17' LT	98.34	1	--
236	W WISC AVE	113+84	18' LT	97.15	1	--
237	W WISC AVE	115+47	82' LT	98.15	1	--
238	W WISC AVE	115+92	16' LT	98.90	1	--
239	W WISC AVE	116+94	18' LT	99.26	1	--
240	W WISC AVE	118+25	18' LT	100.63	1	--
305	W WISC AVE	119+72	7' RT	101.02	-	1*
241	W WISC AVE	119+86	46' RT	100.02	1	--
242	W WISC AVE	120+28	16' LT	101.76	1	--
243	W WISC AVE	121+00	18' LT	103.07	1	--
244	W WISC AVE	121+74	18' LT	103.10	1	--
306	W WISC AVE	121+85	8' RT	102.60	-	1*
245	W WISC AVE	121+99	79' LT	103.46	1	--
246	W WISC AVE	122+00	44' LT	103.38	1	--
247	W WISC AVE	122+46	18' LT	104.12	1	--
248	W WISC AVE	122+89	45' RT	102.60	1	--
249	W WISC AVE	123+38	17' LT	104.36	1	--
250	W WISC AVE	124+09	17' LT	104.99	1	--
307	W WISC AVE	124+15	8' RT	104.43	-	1*
251	W WISC AVE	124+26	47' LT	105.03	1	--
252	W WISC AVE	124+26	80' LT	105.23	1	--
253	W WISC AVE	124+83	18' LT	106.21	1	--
254	W WISC AVE	125+52	18' LT	106.90	1	--
255	W WISC AVE	126+50	17' LT	107.12	1	--
256	W WISC AVE	126+57	77' LT	106.79	1	--
308	W WISC AVE	126+69	8' RT	106.82	1	--
257	W WISC AVE	133+69	45' RT	115.94	1	--
258	W WISC AVE	133+76	77' LT	117.69	1	--
259	W WISC AVE	134+20	16' LT	118.00	1	--

ADJUST MANHOLE COVER

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	COVER ELEVATION	CAT 10 611.8110 EACH	CAT 20 611.8110 EACH
260	W WISC AVE	135+13	19' LT	119.58	1	--
261	W WISC AVE	135+22	3' LT	119.37	1	--
262	W WISC AVE	136+97	2' LT	121.84	1	--
263	W WISC AVE	137+38	79' LT	123.48	1	--
264	W WISC AVE	137+38	44' LT	123.23	1	--
265	W WISC AVE	137+39	44' RT	121.05	1	--
266	W WISC AVE	137+79	3' LT	122.76	1	--
267	W WISC AVE	138+75	4' LT	124.65	1	--
267A	W WISC AVE	140+63	5' LT	127.68	1	--
268	W WISC AVE	142+88	45' RT	128.9	1	--
269	W WISC AVE	142+89	80' LT	129.75	1	--
270	W WISC AVE	143+29	17' LT	130.17	1	--
271	W WISC AVE	145+07	18' LT	129.49	1	--
272	W WISC AVE	145+94	16' LT	128.13	1	--
273	W WISC AVE	146+38	46' RT	127.13	1	--
274	W WISC AVE	146+77	17' LT	127.66	1	--
275	W WISC AVE	147+52	4' LT	127.23	1	--
276	W WISC AVE	148+17	4' LT	126.90	1	--
277	W WISC AVE	148+87	16' LT	126.20	1	--
278	W WISC AVE	149+28	80' LT	125.66	1	--
279	W WISC AVE	149+77	18' LT	126.00	1	--
280	W WISC AVE	149+84	3' RT	125.34	1	--
281	W WISC AVE	151+28	5' LT	124.44	1	--
282	W WISC AVE	151+86	3' LT	124.26	1	--
283	W WISC AVE	154+36	5' LT	119.34	1	--
284	W WISC AVE	155+30	3' LT	116.46	1	--
285	W WISC AVE	155+92	3' LT	114.57	1	--
				CATEGORY TOTAL	60	3
				PROJECT 2190-00-70 TOTAL	63	

3

* REQUIRES INTERNAL SANITARY MANHOLE SEAL, PAY ITEM SPV.0060.021

REMOVING STORM SEWER PIPE 8-INCH

STRUCTURE NUMBER	ROADWAY	STATION	OFFSET	CONNECTION STRUCTURE	CAT 10 204.0245 LF
100	USH 18	17+39	59' LT	200	54
102	USH 18	18+45	58' LT	201	25
104	USH 18	20+36	59' LT	201	40
105	USH 18	21+04	59' LT	202	15
106	USH 18	21+12	40' RT	203	15
107	USH 18	21+42	38' RT	205	20
108A	USH 18	21+67	24' RT	206	6
108	USH 18	23+22	23' RT	205	49
109	USH 18	23+75	58' LT	303	93
110	USH 18	24+84	129' LT	216	33
111	USH 18	24+84	300' LT	213	60
112	USH 18	25+03	73' LT	212	25
113	USH 18	25+28	56' LT	212	9
114	USH 18	25+32	23' RT	218	34
115	USH 18	25+43	294' LT	213	51
116	USH 18	25+62	249' LT	213	71
117	USH 18	26+02	79' LT	221	29
118	USH 18	26+28	81' LT	221	32
119	USH 18	26+45	23' RT	221	12
120	USH 18	26+97	91' LT	222	40
121	USH 18	27+35	77' LT	222	27
122	USH 18	28+73	25' RT	20	44
123	USH 18	29+81	76' LT	225	46
124	USH 18	29+92	25' RT	224	43
125	USH 18	30+01	94' LT	225	26
126	USH 18	30+64	73' LT	225	27

PROJECT 2190-00-71 TOTAL 926

STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH

ROADWAY	STRUCTURE NUMBER	CONNECTION STRUCTURE	CAT 10 608.0312 LF
USH 18	1	200	54
USH 18	2	201	25
USH 18	3	202	15
USH 18	4	203	15
USH 18	5	205	25
USH 18	6		10
USH 18	7	205	6
USH 18	8	303	93
USH 18	9	216	33
USH 18	10	213	60
USH 18	11	212	7
USH 18	13	218	32
USH 18	15	213	71
USH 18	15B	15A	8
USH 18	16	221	54
USH 18	17	222	40
USH 18	18	222	43
USH 18	19	20	44
USH 18	21	224	46
USH 18	22	224	40
USH 18	23	225	22
USH 18	24	225	27
USH 18	25	228	36
USH 18	26	228	38

PROJECT 2190-00-71 PROJECT TOTAL 844

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REMOVING STORM SEWER PIPE 8-INCH

STRUCTURE NUMBER	ROADWAY	STATION	OFFSET	CONNECTION STRUCTURE	CAT 10 204.0245 LF
127	W. WISC AVE.	105+26.5	21' RT	228	36
128	W. WISC AVE.	105+29	55' LT	228	38
129	W. WISC AVE.	107+13	55' LT	229	35
130	W. WISC AVE.	107+28	18' RT	229	39
131	W. WISC AVE.	107+38	77' LT	230	9
132	W. WISC AVE.	107+68	77' LT	230	12
133	W. WISC AVE.	109+75	55' LT	232	36
134	W. WISC AVE.	109+77	21' RT	232	36
135	W. WISC AVE.	111+75	55' LT	233	37
136	W. WISC AVE.	112+02	78' LT	234	13
137	W. WISC AVE.	112+30	77' LT	234	12
138	W. WISC AVE.	112+56	55' LT	235	37
139	W. WISC AVE.	112+86	21' RT	235	48
140	W. WISC AVE.	113+65	21' RT	236	42
141	W. WISC AVE.	113+86	55' LT	236	36
142	W. WISC AVE.	114+36	21' RT		
143	W. WISC AVE.	115+31	77' LT	237	15
144	W. WISC AVE.	115+61	77' LT	237	15
145	W. WISC AVE.	115+85	55' LT	238	39
146	W. WISC AVE.	116+95	21' RT	239	36
147	W. WISC AVE.	118+01	55' LT	239	46
148	W. WISC AVE.	118+23	21' RT	240	36
149	W. WISC AVE.	120+24	55' LT	242	36
150	W. WISC AVE.	120+25	21' RT	242	37
151	W. WISC AVE.	121+52	21' RT	244	44
152	W. WISC AVE.	121+85	77' LT	245	12
153	W. WISC AVE.	122+14	72' LT	245	22
154	W. WISC AVE.	122+32	55' LT	247	36
155	W. WISC AVE.	23+35	21' RT	249	36
156	W. WISC AVE.	124+14	77' LT	252	11
157	W. WISC AVE.	124+38	77' LT	252	11
158	W. WISC AVE.	124+55	21' RT	254	46
159	W. WISC AVE.	124+56	55' LT	251	30
160	W. WISC AVE.	126+39	78' LT	256	16

REMOVING STORM SEWER PIPE 8-INCH

STRUCTURE NUMBER	ROADWAY	STATION	OFFSET	CONNECTION STRUCTURE	CAT 10 204.0245 LF
161	W. WISC AVE.	126+49	21' RT	255	17
162	W. WISC AVE.	126+75	74' LT	256	36
163	W. WISC AVE.	127+00	55' LT	255	62
164	W. WISC AVE.	133+95	74' LT	258	17
165	W. WISC AVE.	134+06	22' RT	259	259
166	W. WISC AVE.	134+09	13' LT	259	10
167	W. WISC AVE.	134+18	55' LT	259	37
168	W. WISC AVE.	135+25	23' LT	260	14
169	W. WISC AVE.	135+26	13' LT	260	14
170	W. WISC AVE.	137+24	80' LT	263	15
171	W. WISC AVE.	137+54	81' LT	263	15
172	W. WISC AVE.	137+75	22' RT	266	22
173	W. WISC AVE.	137+78	55' LT	264	35
174	W. WISC AVE.	137+86	14' LT	266	12
175	W. WISC AVE.	138+83	17' LT	267	15
176	W. WISC AVE.	140+57	56' LT	267A	45
177	W. WISC AVE.	140+69	22' RT	267A	24
178	W. WISC AVE.	143+38	55' LT	270	36
179	W. WISC AVE.	143+48	22' RT	270	40
180	W. WISC AVE.	145+00	17' LT	271	5
181	W. WISC AVE.	145+98	22' RT	272	35
182	W. WISC AVE.	146+00	56' LT	272	36
183	W. WISC AVE.	148+81	20' LT	277	6
184	W. WISC AVE.	148+91	56' LT	277	36
185	W. WISC AVE.	148+95	22' RT	277	34
186	W. WISC AVE.	151+07	17' LT	291	25
187	W. WISC AVE.	151+80	22' RT	292	22
188	W. WISC AVE.	151+91	56' LT	80	35
189	W. WISC AVE.	151+98	20' LT	292	17
190	W. WISC AVE.	154+21	22' RT	293	29
191	W. WISC AVE.	155+33	56' LT	294	50
192	W. WISC AVE.	155+83	14' LT	295	11
193	W. WISC AVE.	155+90	22' RT	295	24

PROJECT 2190-00-70 TOTAL 2080

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STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH

ROADWAY	STRUCTURE NUMBER	CONNECTION STRUCTURE	CAT 10 608.0312 LF
WISC AVE	27	229	35
WISC AVE	28	229	36
WISC AVE	29	230	9
WISC AVE	30	230	12
WISC AVE	31	232	36
WISC AVE	32	232	36
WISC AVE	33	233	37
WISC AVE	34	234	13
WISC AVE	35	234	12
WISC AVE	36	235	43
WISC AVE	37	236	57
WISC AVE	38	236	40
WISC AVE	39	237	15
WISC AVE	40	237	15
WISC AVE	41	238	39
WISC AVE	42	239	36
WISC AVE	43	239	46
WISC AVE	44	242	36
WISC AVE	45	242	37
WISC AVE	46	245	12
WISC AVE	47	245	22
WISC AVE	48	247	36
WISC AVE	49	249	12
WISC AVE	50	249	36
WISC AVE	51	252	12
WISC AVE	52	252	12
WISC AVE	53	254	46
WISC AVE	54	251	30

STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH

ROADWAY	STRUCTURE NUMBER	CONNECTION STRUCTURE	CAT 10 608.0312 LF
WISC AVE	55	256	16
WISC AVE	56	255	17
WISC AVE	57	256	22
WISC AVE	58	255	62
WISC AVE	59	258	17
WISC AVE	60	259	2
WISC AVE	61	259	39
WISC AVE	62	259	37
WISC AVE	63	263	15
WISC AVE	64	263	15
WISC AVE	65	266	17
WISC AVE	66	264	35
WISC AVE	67	266	22
WISC AVE	68	267A	45
WISC AVE	69	267A	24
WISC AVE	70	270	40
WISC AVE	71	270	36
WISC AVE	1A	271	5
WISC AVE	72	272	35
WISC AVE	73	272	36
WISC AVE	74	277	36
WISC AVE	75	277	8
WISC AVE	76	277	34
WISC AVE	77	281	25
WISC AVE	78	282	22
WISC AVE	79	80	35
WISC AVE	81	283	29
WISC AVE	82	284	50
WISC AVE	83	285	31
WISC AVE	84	285	21

PROJECT 2190-00-70 TOTAL 1636

ADJUST INLET COVER

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	COVER ELEV.	CAT 10 611.8115 EACH
101	USH 18	17+39	59' LT	91.39	1
103	USH 18	18+64	0	92.02	1
116	USH 18	25+62	249' LT	104.98	1
117	USH 18	26+02	79' LT	106.09	1
118	USH 18	26+28	81' LT	105.75	1
PROJECT 2190-00-71 TOTAL					5
155	W. WISCONSIN AVE.	123+35	21' RT	103.02	1
PROJECT 2190-00-70 TOTAL					1

STORM SEWER SUMMARY

ITEM NUMBER	ITEM	2190-00-70 QUANTITY	2190-00-71 QUANTITY	
204.0220	REMOVING INLETS	66	23	EACH
204.0245	REMOVING STORM SEWER PIPE 8-INCH	2,142	926	LF
608.0312	SSPR CONCRETE CLASS III 12-INCH	1,636	844	LF
611.2004	MANHOLES 4-FT DIAMETER	1	3	EACH
611.8110	ADJUST MANHOLE COVER	63	36	EACH
611.8115	ADJUST INLET COVER	1	5	EACH
SPV.0060.021	INTERNAL SANITARY MANHOLE SEAL	3	5	EACH
SPV.0060.022	CATCH BASINS TYPE 44A	58	7	EACH
SPV.0060.023	CATCH BASINS TYPE 45A	0	18	EACH
SPV.0060.024	MANHOLE COVER TYPE 58A	0	2	EACH
SPV.0060.025	INLET COVERS TYPE 57	57	26	EACH
SPV.0060.026	MANHOLE COVER TYPE 55	2	0	EACH

SAWING PAVEMENT

STREET	LOCATION	CAT 10 690.0150 SAWING ASPHALT LF	CAT 10 690.0250 SAWING CONCRETE LF
USH 18	STA 17+23.30 TO STA 22+00	140	40
USH 18	STA 22+00 TO STA 28+00	200	60
USH 18	STA 28+00 TO STA 32+63.50	100	110
N 36TH / N 37TH		240	--
PROJECT 2190-00-71 TOTAL		680	210

STREET	LOCATION		
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	70	40
WISCONSIN AVE	STA 111+00 TO STA 117+00	50	110
WISCONSIN AVE	STA 117+00 TO STA 123+00	150	70
WISCONSIN AVE	STA 123+00 TO STA 127+33	130	190
WISCONSIN AVE	STA 133+12 TO STA 135+00	60	140
WISCONSIN AVE	STA 135+00 TO STA 141+00	190	40
WISCONSIN AVE	STA 141+00 TO STA 147+00	190	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	70	113
WISCONSIN AVE	STA 153+00 TO STA 156+80	260	170
PROJECT 2190-00-70 TOTAL		1,170	873

SIGNATURE BED ITEMS

WISCONSIN AVENUE LOCATION	CAT 10 632.0101.001 DWARF SERBIAN SPRUCE #5 CG EACH	CAT 10 632.0101.002 AMERICAN HORNBEAMS 3" B&B EACH	CAT 10 632.0101.003 CLEVELAND SELECT PEAR 3" B&B EACH*	CAT 10 632.0201.001 DWARF KOREAN LILAC #5 CG EACH	CAT 10 632.0201.002 YELLOW KNOCKOUT ROSE #2 CG EACH	CAT 10 632.0201.003 TIGER EYE SUMAC #5 CG EACH	CAT 10 SPV.0060.006 WOODS PURPLE ASTER #1 CG EACH	CAT 10 SPV.0060.007 RUSSIAN SAGE #1 CG EACH
SIGNATURE BED #1	0	0	3	0	0	6	0	0
SIGNATURE BED #2	2	3	0	12	6	0	72	12
SIGNATURE BED #3	0	0	3	0	0	6	0	0
PROJECT 2190-00-70 TOTAL	2	3	6	12	6	12	72	12

*Quantities Shown Elsewhere

WISCONSIN AVENUE LOCATION	CAT 10 SPV.0060.008 SHASTA DAISY BECKY #1 CG EACH	CAT 10 SPV.0060.009 CLOUD NINE SWITCH GRASS #1 CG EACH	CAT 10 SPV.0060.010 CATMINT BLUE WONDER #1 CG EACH	CAT 10 SPV.0060.011 KARL FORESTER GRASS #1 CG EACH	CAT 10 SPV.0060.012 DAY LILIES #1 CG EACH	CAT 10 SPV.0060.013 ZAGREB COREOPSIS #1 CG EACH	CAT 10 SPV.0060.014 SIGNATURE BED EACH	CAT 10 SPV.0090.003 FIELDSTONE BOULDER WALL L.F.
SIGNATURE BED #1	0	0	48	72	48	24	1	40
SIGNATURE BED #2	24	14	24	0	0	0	1	40
SIGNATURE BED #3	0	0	48	72	48	24	1	40
PROJECT 2190-00-70 TOTAL	24	14	120	144	96	48	3	120

PLANTING CHART

COMMON NAME	SIZE PLANTED	ROOT ZONE MODE	HEIGHT	REMARKS
DAY LILIES	1 GAL.	CG	--	SPECIMEN QUALITY
YELLOW KNOCKOUT ROSE	2 GAL.	CG	--	SPECIMEN QUALITY
DWARF KOREAN LILAC	5 GAL.	CG	--	SPECIMEN QUALITY
RUSSIAN SAGE	1 GAL.	CG	--	SPECIMEN QUALITY
CATMINT BLUE WONDER	1 GAL.	CG	--	SPECIMEN QUALITY
CLOUD NINE SWITCHGRASS	1 GAL.	CG	--	SPECIMEN QUALITY
SHASTA DAISYS "BECKY"	1 GAL.	CG	--	SPECIMEN QUALITY
WOODS PURPLE ASTER	1 GAL.	CG	--	SPECIMEN QUALITY
ZAGREB COREOPSIS	1 GAL.	CG	--	SPECIMEN QUALITY
TIGERS EYE SUMAC	5 GAL.	CG	--	SPECIMEN QUALITY
KARL FORESTER GRASS	1 GAL.	CG	--	SPECIMEN QUALITY

3

TREES

STREET	LOCATION	CAT 10 632.0101.003 CLEVELAND SELECT PEAR 3" B&B EACH*	CAT 10 632.0101.004 IVORY SILK LILAC 3" B&B EACH	CAT 10 632.0101.005 COMMON BALD-CYPRESS 3" B&B EACH	CAT 10 632.0101.006 RED BUD 3" B&B EACH	CAT 10 632.0101.007 SUNBURST HONEY LOCUST 3" B&B EACH	CAT 10 632.0101.008 FREEMAN MAPLE 3" B&B EACH	CAT 10 632.0101.009 SERVICE BERRY 3" B&B EACH	CAT 10 632.0101.010 TULIP TREE 3" B&B EACH
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	2	---	---	---	---	---	---	---
WISCONSIN AVE	STA 111+00 TO STA 117+00	2	1	2	2	---	---	---	---
WISCONSIN AVE	STA 117+00 TO STA 123+00	---	1	---	---	1	---	---	---
WISCONSIN AVE	STA 123+00 TO STA 127+33	4	--	--	--	--	4	--	--
WISCONSIN AVE	STA 133+12 TO STA 135+00	---	---	---	---	---	---	---	---
WISCONSIN AVE	STA 135+00 TO STA 141+00	---	3	---	---	---	---	---	---
WISCONSIN AVE	STA 141+00 TO STA 147+00	1	---	---	---	---	---	---	---
WISCONSIN AVE	STA 147+00 TO STA 153+00	---	1	---	---	---	2	---	---
WISCONSIN AVE	STA 153+00 TO STA 156+80	---	---	---	---	---	---	3	1
	PROJECT 2190-00-70 TOTAL	9	6	2	2	1	6	3	1

*Quantities Shown Elsewhere

SURVEILLANCE AND CARE CYCLES

LOCATION	CAT 10 632.9101 PLANTING SURVEILLANCE & CARE CYCLES EACH
WISCONSIN AVENUE	10
PROJECT 2190-00-70 TOTAL	10

TREE PLANTING CHART

COMMON NAME	SCIENTIFIC NAME	LOCATION(S)	SIZE PLANTED	ROOT ZONE MODE	HEIGHT	BALL (MIN. SIZE) DIA.	BALL (MIN. SIZE) DEPTH	HOLE (MIN. SIZE) DIA.	HOLE (MIN. SIZE) DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECTION REQ'D	MULCH RING DIAMETER	REMARKS
CLEVELAND SELECT PEAR	PYRUS CALLERYANA "CLEVELAND SELECT"	STA 106+69 RT	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
		STA 109+41 LT												
		SIGNATURE BED NO. 1												
		STA 113+27 LT												
		STA 113+75 RT												
		STA 124+92 MEDIAN												
		STA 125+32 MEDIAN												
		STA 125+90 MEDIAN												
		STA 125+00 RT												
		STA 141+88 LT												
		SIGNATURE BED NO. 3												
IVORY SILK LILAC	SYRINGA RETICULATA	STA 111+64 LT	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
		STA 118+36 RT												
		STA 138+64 LT												
		STA 139+44 LT												
		STA 139+91 LT												
		STA 151+36 RT												
		STA 139+91 LT												
		STA 151+36 RT												
COMMON BALDCYPRESS	TAXODIUM DISTICHUM	STA 111+95 MEDIAN	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
		STA 116+23 MEDIAN												
RED BUD	CERCIS CANADENSIS	STA 112+48 MEDIAN	3" CAL.	B&B	8' - 10'	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY, CLUMP FORM
		STA 116+53 MEDIAN												
SUNBURST HONEYLOCUST	GLEDITSIA TRIACANTHOS 'INERMIS'	STA 117+71 MEDIAN	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
FREEMAN MAPLE	ACER XFREEMANII	STA 124+95 LT	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
		STA 127+65 MEDIAN												
		STA 127+80 MEDIAN												
		STA 127+97 MEDIAN												
		STA 150+17 LT												
		STA 151+40 LT												
SERVICEBERRY	AMELANCHIER	STA 153+36 MEDIAN	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
		STA 153+76 MEDIAN												
		STA 154+30 MEDIAN												
TULIP TREE	LIRIODENDRON TULIPIFERA	STA 155+42 MEDIAN	3" CAL.	B&B	--	24"	19"	48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
DWARF SERBIAN SPRUCE	PICEA OMORIKA	SIGNATURE BED NO. 2	5 GAL.	CG							4 EACH			SPECIMEN QUALITY
AMERICAN HORNBEAMS	CARPINUS	SIGNATURE BED NO. 2	3" CAL.	B&B							4 EACH			SPECIMEN QUALITY

3

STREET LIGHTING ITEMS

LOCATION	PROJECT ID	CAT 10 CONSTRUCTION STAKING ELECTRICAL 2190-00-70 650.8500.001 LS	CAT 10 CONSTRUCTION STAKING ELECTRICAL 2190-00-71 650.8500.002 LS	CAT 10 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH 652.0225 LF *	CAT 10 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 INCH 652.0235 LF *	CAT 10 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3 INCH 652.0335 LF	CAT 10 CONDUIT SPECIAL 3 INCH 652.0615 LF *	CAT 10 CONCRETE BASES TYPE 2 654.0102 EACH	CAT 10 CABLE TYPE UF 2#12 AWG GROUNDED 655.0305 LF
WISCONSIN AVE	2190-00-70	1	--	205	9,860	2,850	--	94	4,420
USH 18	2190-00-71	--	1	40	3,390	780	370	33	1,900

*Quantities Shown Elsewhere

LOCATION	PROJECT ID	CAT 10 FIBERGLASS/POLYMER CONCRETE PULL BOX 13" x 24" x 24" SPV.0060.302 EACH	CAT 10 FIBERGLASS/POLYMER CONCRETE PULL BOX 17" x 30" x 24" SPV.0060.303 EACH*	CAT 10 WATER TIGHT JUNCTION BOX SPLICING SPV.0060.342 EACH	CAT 10 INSTALL CITY FURNISHED LUMINAIRE ARM 6-FOOT SPV.0060.351 EACH	CAT 10 LUMINAIRE UTILITY LED 3 SPV.0060.376 EACH	CAT 10 CONCRETE BASE TYPE 2 MODIFIED SPV.0060.398 EACH	CAT 10 POLES TYPE 5 SPV.0060.800 EACH	CAT 10 POLES TYPE 30 SPV.0060.818 EACH
WISCONSIN AVE	2190-00-70	158	27	84	18	18	97	45	18
USH 18	2190-00-71	45	--	25	1	1	36	8	5

*Quantities Shown Elsewhere

LOCATION	PROJECT ID	CAT 10 POLES TYPE 31 SPV.0060.819 EACH	CAT 10 LUMINAIRE HISTORIC MILWAUKEE HARP LED 0 SPV.0060.864 EACH	CAT 30 LUMINAIRE HISTORIC MILWAUKEE HARP LED 0 SPV.0060.864 EACH	CAT 10 LUMINAIRE HISTORIC MILWAUKEE LANTERN LED 3 SPV.0060.867 EACH	CAT 10 CABLE TYPE 3#8/1#8 LTP SPV.0090.335 LF	CAT 10 CABLE TYPE 3#6/1#8 LTP SPV.0090.336 LF	CAT 10 CABLE TYPE 3#4/1#8 LTP SPV.0090.337 LF	CAT 10 CABLE TYPE 3#2/1#8 LTP SPV.0090.338 LF	CAT 10 CABLE TYPE 3#10 UF AWG WITH GROUND SPV.0090.340 LF
WISCONSIN AVE	2190-00-70	76	45	--	113	3,680	1,400	5,520	1,040	6,500
USH 18	2190-00-71	31	--	12	46	925	1,500	--	--	--

ADJUSTING WATER BOXES AND MANHOLES

LOCATION	CAT 20 SPV.0060.017 ADJUSTING WATER BOXES EACH	CAT 20 SPV.0060.018 ADJUSTING WATER MANHOLES EACH	CAT 40 SPV.0060.017 ADJUSTING WATER BOXES EACH	CAT 40 SPV.0060.018 ADJUSTING WATER MANHOLES EACH
USH 18	--	--	31	2
PROJECT 2190-00-71 TOTAL	0	0	31	2
LOCATION				
WISCONSIN AVENUE	108	2	--	--
PROJECT 2190-00-70 TOTAL	108	2	0	0

UTILITY LINE OPENING

STREET	LOCATION	CAT 10 SPV.0060.020 UTILITY LINE OPENING EACH
USH 18	STA 17+23.30 TO STA 22+00	--
USH 18	STA 22+00 TO STA 28+00	1
USH 18	STA 28+00 TO STA 32+63.50	1
N 36TH	STA TO STA	--
N 37TH	STA TO STA	--
PROJECT 2190-00-71 TOTAL		2
STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	1
WISCONSIN AVE	STA 117+00 TO STA 123+00	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	--
WISCONSIN AVE	STA 133+12 TO STA 135+00	1
WISCONSIN AVE	STA 135+00 TO STA 141+00	1
WISCONSIN AVE	STA 141+00 TO STA 147+00	1
WISCONSIN AVE	STA 147+00 TO STA 153+00	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	--
PROJECT 2190-00-70 TOTAL		4

3

CITY UNDERGROUND CONDUIT

STREET	LOCATION	CAT 10 SPV.0060.401 4' DIAMETER MANHOLE TYPE CUC EACH	CAT 10 SPV.0060.402 5' DIAMETER MANHOLE TYPE CUC EACH	CAT 10 SPV.0060.410 4' DIAMETER "DOGHOUSE" MANHOLE TYPE CUC EACH	CAT 10 SPV.0060.411 4' DIA "DOGHOUSE" MANHOLE TYPE CUC INSTALLED OVER CONDUIT EACH	CAT 10 SPV.0060.412 5' DIAMETER "DOGHOUSE" MANHOLE TYPE CUC EACH	CAT 10 SPV.0060.413 5' DIA "DOGHOUSE" MANHOLE TYPE CUC INSTALLED OVER CONDUIT EACH	CAT 10 SPV.0060.420 REMOVE CUC MANHOLE EACH
USH 18	STA 17+23.30 TO STA 22+00	--	--	--	--	--	--	--
USH 18	STA 22+00 TO STA 28+00	--	--	1	--	1	--	2
USH 18	STA 28+00 TO STA 32+63.50	--	--	--	--	--	1	--
	PROJECT 2190-00-71 TOTAL	0	0	1	0	1	1	2
STREET	LOCATION							
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	--	--	1	--	1	--	2
WISCONSIN AVE	STA 111+00 TO STA 117+00	--	--	2	--	2	--	4
WISCONSIN AVE	STA 117+00 TO STA 123+00	2	--	1	--	--	--	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	--	--	--	1	2	--	2
WISCONSIN AVE	STA 133+12 TO STA 135+00	--	--	--	--	--	--	1
WISCONSIN AVE	STA 135+00 TO STA 141+00	--	--	--	--	--	--	--
WISCONSIN AVE	STA 141+00 TO STA 147+00	--	2	--	--	--	--	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	--	1	--	--	--	--	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	--	1	--	--	--	--	--
	PROJECT 2190-00-70 TOTAL	2	4	4	1	5	0	9

STREET	LOCATION	CAT 10 SPV.0060.425 INSTALLING CONDUIT INTO EXIST. MANHOLE EACH	CAT 10 SPV.0090.401 1DUCT CONDUIT CEMENT ENCASED DB-60 LF	CAT 10 SPV.0090.402 2-DUCT CONDUIT CEMENT ENCASED DB-60 LF	CAT 10 SPV.0090.406 6-DUCT CONDUIT CEMENT ENCASED DB-60 LF	CAT 10 SPV.0090.408 8-DUCT CONDUIT CEMENT ENCASED DB-60 LF	CAT 10 SPV.0090.409 9-DUCT CONDUIT CEMENT ENCASED DB-60 LF	CAT 10 SPV.0090.422 DUCT REMOVAL FROM CONCRETE ENCASED DUCT PACKAGE LF
USH 18	STA 17+23.30 TO STA 22+00	--	--	--	--	--	--	--
USH 18	STA 22+00 TO STA 28+00	1	--	92	--	--	--	11
USH 18	STA 28+00 TO STA 32+63.50	1	--	25	358	--	--	--
	PROJECT 2190-00-71 TOTAL	2	0	117	358	0	0	11
STREET	LOCATION							
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	--	--	--	674	--	--	--
WISCONSIN AVE	STA 111+00 TO STA 117+00	1	48	83	447	7	40	--
WISCONSIN AVE	STA 117+00 TO STA 123+00	1	--	169	702	123	--	--
WISCONSIN AVE	STA 123+00 TO STA 127+33	1	--	70	92	52	--	--
WISCONSIN AVE	STA 133+12 TO STA 135+00	--	--	90	362	--	--	--
WISCONSIN AVE	STA 135+00 TO STA 141+00	2	--	41	500	22	--	--
WISCONSIN AVE	STA 141+00 TO STA 147+00	2	--	146	677	--	--	--
WISCONSIN AVE	STA 147+00 TO STA 153+00	--	--	107	626	--	--	--
WISCONSIN AVE	STA 153+00 TO STA 156+80	--	--	87	31	63	--	--
	PROJECT 2190-00-70 TOTAL	7	48	793	4,111	267	40	0

CITY UNDERGROUND CONDUIT

STREET	LOCATION	CAT 10 SPV.0060.400 ADJUSTING CUC MANHOLE COVERS EACH	COMMENT
USH 18	MANHOLE 400 STA 17 + 56.1, 61.9 LT	1	NEW FRAME
USH 18	MANHOLE 401 STA 21 + 49.8, 50.5 LT	1	NEW FRAME
USH 18	MANHOLE 402 STA 21 + 57.1, 22.1 LT	1	NEW FRAME
USH 18	MANHOLE 404 STA 24 + 72.6, 26.4 LT	1	NEW FRAME
USH 18	MANHOLE 405 STA 25 + 40.5, 42.5 LT	1	NEW FRAME
USH 18	MANHOLE 406 STA 25 + 46.4, 23.6 LT	1	USE EXISTING FRAME
USH 18	MANHOLE 408 STA 25 + 46.3, 264.7 LT	1	NEW FRAME
USH 18	MANHOLE 410 STA 26 + 58.2, 42.1 LT	1	NEW FRAME
USH 18	MANHOLE 411 STA 27 + 34.8, 24.5 LT	1	NEW FRAME
USH 18	MANHOLE 412 STA 29 + 91.9, 54.0 LT	1	NEW FRAME
USH 18	MANHOLE 413 STA 30 + 38.3, 44.6 LT	1	NEW FRAME
USH 18	MANHOLE 414 STA 30 + 50.7, 40.8 LT	1	NEW FRAME
USH 18	MANHOLE 415 STA 30 + 71.6, 63.9 LT	1	NEW FRAME
PROJECT 2190-00-71 TOTAL		13	

STREET	LOCATION		COMMENT
WISCONSIN AVE	MANHOLE 417 STA 107 + 49.1, 64.1 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 419 STA 107 + 62.7, 50.4 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 420 STA 109 + 88.4, 48.1 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 422 STA 112 + 20.6, 64.2 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 423 STA 112 + 25.3, 47.3 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 425 STA 112 + 98.4, 47.1 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 427 STA 115 + 54.3, 64.3 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 429 STA 115 + 72.1, 50.9 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 430 STA 117 + 50.0, 41.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 431 STA 119 + 47.4, 58.8 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 432 STA 119 + 97.7, 51.7 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 433 STA 121 + 45.0, 41.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 434 STA 121 + 73.0, 51.5 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 436 STA 121 + 96.6, 64.1 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 437 STA 124 + 46.6, 51.5 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 438 STA 125 + 89.9, 63.9 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 440 STA 125 + 92.1, 36.3 RT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 441 STA 126 + 26.5, 41.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 442 STA 126 + 76.5, 51.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 443 STA 126 + 84.9, 63.7 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 445 STA 133 + 62.8, 46.7 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 446 STA 133 + 89.1, 62.8 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 447 STA 137 + 28.8, 49.1 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 448 STA 137 + 42.6, 62.3 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 449 STA 142 + 55.5, 50.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 450 STA 142 + 92.5, 61.9 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 451 STA 142 + 92.0, 29.3 RT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 452 STA 146 + 41.2, 62.8 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 453 STA 146 + 41.2, 50.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 454 STA 149 + 32.1, 62.7 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 455 STA 149 + 48.0, 50.0 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 456 STA 152 + 24.6, 61.4 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 457 STA 154 + 68.4, 61.2 LT	1	NEW FRAME
WISCONSIN AVE	MANHOLE 458 STA 155 + 78.3, 50.0 LT	1	NEW FRAME
PROJECT 2190-00-70 TOTAL		34	

INTERCONNECT

STREET	LOCATION	CAT 10 SPV.0090.201 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF
USH 18	STA 17+23.30 TO STA 22+00	0
USH 18	STA 22+00 TO STA 28+00	0
USH 18	STA 28+00 TO STA 32+63.50	358
N 36TH/ N 37TH		0
PROJECT 2190-00-71 TOTAL		358

STREET	LOCATION	
WISCONSIN AVE	STA 105+63.50 TO STA 111+00	535
WISCONSIN AVE	STA 111+00 TO STA 117+00	878
WISCONSIN AVE	STA 117+00 TO STA 123+00	628
WISCONSIN AVE	STA 123+00 TO STA 127+33	628
WISCONSIN AVE	STA 133+12 TO STA 135+00	1128
WISCONSIN AVE	STA 135+00 TO STA 141+00	628
WISCONSIN AVE	STA 141+00 TO STA 147+00	878
WISCONSIN AVE	STA 147+00 TO STA 153+00	628
WISCONSIN AVE	STA 153+00 TO STA 156+80	267
PROJECT 2190-00-70 TOTAL		6,198

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		FOR INFORMATION ONLY: CITY FURNISHED POSTS 14 FT EACH	CITY FURNISHED POSTS 16 FT EACH	CITY FURNISHED POSTS 18 FT EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.002 INSTALL CITY FURNISHED SIGN EACH	REMARKS
4-1	WISC. AVE	106+32	LT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
4-2	WISC. AVE	106+03	RT	R7-2MOD	LA; 2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, RA	24	X 18	1	-	-	3.0	1	-
5-1	WISC. AVE	107+12	LT	R6-2L		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
5-2	WISC. AVE	107+35	LT	R1-1		30	X 30	1	-	-	6.3	1	-
5-3	WISC. AVE	107+71	LT	R6-2R		24	X 30	-	-	1	5.0	1	-
5-4	WISC. AVE	107+71	LT	R5-1		30	X 30	-	-	-	6.3	1	ON POST WITH SIGN 5-3
5-5	WISC. AVE	107+71	LT	R6-2L		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 5-3
5-6	WISC. AVE	107+85	LT	S1-1		36	X 36	-	1	-	9.0	1	-
5-7	WISC. AVE	107+85	LT	W16-7L		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 5-6
5-8	WISC. AVE	109+13	LT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
5-9	WISC. AVE	110+75	LT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
5-10	WISC. AVE	110+75	LT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
5-11	WISC. AVE	110+75	LT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
5-12	WISC. AVE	111+98	LT	R1-1		30	X 30	-	-	1	6.3	1	-
5-13	WISC. AVE	112+34	LT	R5-1		30	X 30	1	-	-	6.3	1	-
5-14	WISC. AVE	112+45	LT	R6-2L		24	X 30	1	-	-	5.0	1	-
5-15	WISC. AVE	112+95	LT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
5-16	WISC. AVE	112+88	LT	R4-7		24	X 30	1	-	-	5.0	1	
5-17	WISC. AVE	112+91	RT	R10-3E		9	X 15	-	-	-	0.9	1	ATTACH TO LIGHT POLE/SIGNAL
5-18	WISC. AVE	112+34	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
5-19	WISC. AVE	112+18	LT	R3-5OR		30	X 36	-	1	-	7.5	1	-
5-20	WISC. AVE	111+75	RT	R7-2MOD	LA	12	X 18	1	-	-	1.5	1	-
5-21	WISC. AVE	110+78	RT	R7-2MOD	RA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
5-22	WISC. AVE	109+82	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
5-23	WISC. AVE	108+68	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
5-24	WISC. AVE	107+91	LT	S1-1		36	X 36	-	1	-	9.0	1	-
5-25	WISC. AVE	107+91	LT	W16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 5-24
5-26	WISC. AVE	107+88	RT	R7-2MOD	NO STOPPING ANY TIME, LA; RA	24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
5-27	WISC. AVE	107+91	LT	R4-7		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 5-24
5-28	WISC. AVE	107+13	LT	R4-7		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 5-29
5-29	WISC. AVE	107+13	LT	S1-1		36	X 36	-	-	1	9.0	1	-
5-30	WISC. AVE	107+13	LT	W16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 5-29
5-31	WISC. AVE	107+13	LT	R3-2		24	X 24	-	-	-	4.0	1	ON POST WITH SIGN 5-29
5-32	WISC. AVE	107+10	RT	S1-1		36	X 36	-	-	1	9.0	1	ATTACH TO LIGHT POLE
5-33	WISC. AVE	107+10	RT	W16-7L		24	X 12	-	-	-	2.0	1	ATTACH TO LIGHT POLE
5-34	WISC. AVE	107+10	RT	R7-2MOD	NO STOPPING ANY TIME, LA; RA	24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		FOR INFORMATION ONLY: CITY FURNISHED POSTS 14 FT EACH	CITY FURNISHED POSTS 16 FT EACH	CITY FURNISHED POSTS 18 FT EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.002 INSTALL CITY FURNISHED SIGN EACH	REMARKS
6-1	WISC. AVE	113+55	LT	R10-3ER		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
6-2	WISC. AVE	113+63	LT	R4-7		24	X 30	1	-	-	5.0	1	-
6-3	WISC. AVE	114+36	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
6-4	WISC. AVE	115+29	LT	R1-1		30	X 30	1	-	-	6.3	1	-
6-5	WISC. AVE	115+10	LT	R4-7		24	X 30	1	-	-	5.0	1	-
6-6	WISC. AVE	115+62	LT	SPEED HUMP		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE
6-7	WISC. AVE	115+62	LT	W13-1	15	18	X 18	-	-	-	2.3	1	ATTACH TO LIGHT POLE
6-8	WISC. AVE	115+88	LT	R4-7		24	X 30	1	-	-	5.0	1	-
6-9	WISC. AVE	116+42	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
6-10	WISC. AVE	116+54	LT	R3-5OR		30	X 36	-	1	-	7.5	1	-
6-11	WISC. AVE	117+20	LT	R7-2MOD	LA	12	X 18	1	-	-	1.5	1	-
6-14	WISC. AVE	116+72	RT	R1-1		30	X 30	1	-	-	6.3	1	-
6-15	WISC. AVE	116+22	RT	R7-2MOD	RA	12	X 18	1	-	-	1.5	1	-
6-16	WISC. AVE	115+61	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
6-17	WISC. AVE	115+05	RT	R7-2MOD	LA	12	X 18	1	-	-	1.5	1	-
6-18	WISC. AVE	114+30	RT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
6-19	WISC. AVE	114+30	RT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
6-20	WISC. AVE	113+55	RT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
7-1	WISC. AVE	119+35	LT	R7-4MOD	RA	18	X 24	1	-	-	3.0	1	-
7-2	WISC. AVE	119+48	LT	S1-1		36	X 36	-	1	-	9.0	1	-
7-3	WISC. AVE	119+48	LT	W16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 7-2
7-4	WISC. AVE	119+48	LT	R4-7		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 7-2
7-5	WISC. AVE	120+22	LT	R4-7		24	X 30	-	1	-	5.0	1	-
7-6	WISC. AVE	120+18	LT	S1-1		36	X 36	-	1	-	9.0	1	-
7-7	WISC. AVE	120+18	LT	S16-7L		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 7-6
7-8	WISC. AVE	120+34	LT	R7-4LMOD	LA	18	X 24	-	-	-	3.0	1	ATTACH TO LIGHT POLE
7-9	WISC. AVE	121+09	LT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
7-10	WISC. AVE	121+09	LT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
7-11	WISC. AVE	121+64	LT	S1-1		36	X 36	-	-	-	9.0	1	ATTACH TO LIGHT POLE
7-12	WISC. AVE	121+64	LT	S16-9P		24	X 8	-	-	-	1.3	1	ATTACH TO LIGHT POLE
7-13	WISC. AVE	121+82	LT	R1-1		30	X 30	-	-	1	6.3	1	-
7-14	WISC. AVE	122+17	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
7-15	WISC. AVE	121+90	LT	R5-1		30	X 30	1	-	-	6.3	1	-
7-16	WISC. AVE	122+00	LT	R3-5OR		36	X 36	-	1	-	9.0	1	-
7-17	WISC. AVE	121+51	LT	R4-7		24	X 30	1	-	-	5.0	1	-
7-18	WISC. AVE	122+76	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
7-19	WISC. AVE	123+29	LT	R4-7		24	X 30	1	-	-	5.0	1	-
7-20	WISC. AVE	123+56	LT	R7-2MOD	LA	12	X 18	1	-	-	1.5	1	-
7-21	WISC. AVE	124+05	LT	R1-1		30	X 30	1	-	-	6.3	1	-
7-22	WISC. AVE	124+40	LT	W14-1		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE
7-23	WISC. AVE	124+61	LT	R4-7		24	X 30	1	-	-	5.0	1	-
7-24	WISC. AVE	124+00	RT	R2-1	30	24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
7-25	WISC. AVE	124+00	RT	S5-2		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE

3

ALL CATEGORY 0010

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		FOR INFORMATION ONLY: CITY FURNISHED POSTS 14 FT EACH	CITY FURNISHED POSTS 16 FT EACH	CITY FURNISHED POSTS 18 FT EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.002 INSTALL CITY FURNISHED SIGN EACH	REMARKS
7-26	WISC. AVE	124+00	RT	R7-108MOD	1 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
7-27	WISC. AVE	123+10	RT	R1-1		30	X 30	1	-	-	6.3	1	-
7-28	WISC. AVE	122+15	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
7-29	WISC. AVE	121+80	LT	W12-1D		24	X 24	1	-	-	4.0	1	-
7-30	WISC. AVE	121+50	LT	R3-18		24	X 24	1	-	-	4.0	1	-
7-31	WISC. AVE	121+47	RT	R7-2MOD	LA	12	X 18	1	-	-	1.5	1	-
7-32	WISC. AVE	120+22	LT	S1-1		36	X 36	-	-	-	9.0	1	ON POST WITH SIGN 7-5
7-33	WISC. AVE	120+22	LT	S16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 7-5
7-34	WISC. AVE	120+04	RT	R1-1		30	X 30	1	-	-	6.3	1	-
7-35	WISC. AVE	119+50	RT	S1-1		36	X 36	-	1	-	9.0	1	-
7-36	WISC. AVE	119+50	RT	W16-7L		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 7-35
8-1	WISC. AVE	121+51	LT	R7-4RMOD	RA	18	X 24	1	-	-	3.0	1	-
8-2	WISC. AVE	125+91	LT	R2-1	30	24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
8-3	WISC. AVE	126+37	LT	R1-1		30	X 30	-	-	1	6.3	1	-
8-4	WISC. AVE	126+09	LT	R5-1		30	X 30	-	1	-	6.3	1	-
8-5	WISC. AVE	126+50	LT	R3-50R		30	X 36	-	1	-	7.5	1	-
8-6	WISC. AVE	126+09	LT	W12-1D		24	X 24	-	-	-	4.0	1	ON POST WITH SIGN 8-4
8-7	WISC. AVE	126+99	RT	R7-4MOD	NO STOPPING SCHOOL DAYS 7AM TO 4PM, LA; NO STOPPING ANY TIME, RA	24	X 18	1	-	-	3.0	1	-
8-8	WISC. AVE	126+26	RT	R1-1		30	X 30	-	-	1	6.3	1	-
8-9	WISC. AVE	126+00	LT	R3-50R		30	X 36	-	-	1	7.5	1	-
8-10	WISC. AVE	126+00	LT	R3-18		24	X 24	-	-	-	4.0	1	ON POST WITH SIGN 8-9
8-11	WISC. AVE	125+17	RT	R7-108MOD	1 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	1	-	-	1.5	1	-
9-1	WISC. AVE	133+40	LT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
9-4	WISC. AVE	134+13	LT	R10-3ER		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
9-5	WISC. AVE	134+84	LT	R2-1	30	24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
9-5A	WISC. AVE	134+84	LT	S5-2		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
9-6	WISC. AVE	135+23	LT	S4-51	20	24	X 48	-	-	1	8.0	1	-
9-7	WISC. AVE	135+23	LT	R2-6P		24	X 18	-	-	-	3.0	1	ON POST WITH SIGN 9-6
9-8	WISC. AVE	135+23	LT	R2-1	30	24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 9-6
9-8A	WISC. AVE	135+23	LT	S5-2		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 9-6
9-9	WISC. AVE	136+60	LT	R7-2MOD	RA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
9-10	WISC. AVE	136+99	RT	S1-1		36	X 36	-	-	-	9.0	1	ATTACH TO LIGHT POLE
9-11	WISC. AVE	136+99	RT	S16-7L		24	X 12	-	-	-	2.0	1	ATTACH TO LIGHT POLE
9-12	WISC. AVE	136+17	RT	R7-2MOD	LA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
9-13	WISC. AVE	135+22	RT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
9-14	WISC. AVE	135+22	RT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
9-15	WISC. AVE	134+52	RT	S1-1		36	X 36	-	-	-	9.0	1	ATTACH TO LIGHT POLE
9-16	WISC. AVE	134+52	RT	S16-9P		24	X 8	-	-	-	1.3	1	ATTACH TO LIGHT POLE
9-17	WISC. AVE	134+14	LT	S1-1		36	X 36	-	1	-	9.0	1	-
9-17A	WISC. AVE	134+14	1	W16-9P		24	X 8	-	-	-	1.3	1	ON POST WITH SIGN 9-17
9-18	WISC. AVE	134+11	RT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
9-21	WISC. AVE	133+38	RT	R10-3E		9	X 15	-	-	-	0.9	1	ATTACH TO LIGHT POLE/SIGNAL

ALL CATEGORY 0010

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		FOR INFORMATION ONLY: CITY FURNISHED POSTS 14 FT EACH	CITY FURNISHED POSTS 16 FT EACH	CITY FURNISHED POSTS 18 FT EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.002 INSTALL CITY FURNISHED SIGN EACH	REMARKS
10-1	WISC. AVE	137+20	LT	R1-1		30	X 30	1	-	-	6.3	1	-
10-2	WISC. AVE	137+75	LT	S1-1		36	X 36	-	-	-	9.0	1	ATTACH TO LIGHT POLE
10-3	WISC. AVE	137+75	LT	S16-7L		24	X 12	-	-	-	2.0	1	ATTACH TO LIGHT POLE
10-4	WISC. AVE	138+48	LT	R7-2MOD WITH R7-5DMOD	BUS STOP, LA; NO STOPPING 3PM TO 5PM, NO PARKING SCHOOL DAYS 7AM TO 3PM, DA	24	X 18	1	-	-	3.0	1	-
10-6	WISC. AVE	139+69	LT	R7-5DMOD	NO STOPPING 3PM TO 5PM, NO PARKNG SCHOOL DAYS 7AM TO 3PM, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
10-7	WISC. AVE	141+18	LT	R7-5DMOD	NO STOPPING 3PM TO 5PM, NO PARKNG SCHOOL DAYS 7AM TO 3PM, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
10-8	WISC. AVE	142+04	LT	R7-5DMOD	NO STOPPING 3PM TO 5PM, NO PARKNG SCHOOL DAYS 7AM TO 3PM, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
10-10	WISC. AVE	142+55	LT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
10-11	WISC. AVE	142+52	LT	R4-7		24	X 30	1	-	-	5.0	1	-
10-12	WISC. AVE	142+54	RT	R10-3E		9	X 15	-	-	-	0.9	1	ATTACH TO LIGHT POLE/SIGNAL
10-13	WISC. AVE	141+59	RT	R7-2MOD	BUS STOP, LA; RA	24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
10-14	WISC. AVE	139+79	RT	R7-2MOD	LA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
10-15	WISC. AVE	137+73	LT	S1-1		36	X 36	-	1	-	9.0	1	-
10-15A	WISC. AVE	137+73	LT	W16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 10-15
10-16	WISC. AVE	137+58	RT	R1-1		30	X 30	1	-	-	6.3	1	-
10-17	WISC. AVE	137+73	LT	R4-7		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 10-15
10-18	WISC. AVE	137+02	LT	R4-7		24	X 30	-	1	-	5.0	1	-
10-19	WISC. AVE	137+02	LT	S1-1		36	X 36	-	-	-	9.0	1	ON POST WITH SIGN 10-18
10-20	WISC. AVE	137+02	LT	W16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 10-18
11-1	WISC. AVE	143+22	LT	R10-3ER		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
11-2	WISC. AVE	143+24	LT	R4-7		24	X 30	1	-	-	5.0	1	-
11-3	WISC. AVE	144+19	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
11-4	WISC. AVE	144+19	LT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
11-5	WISC. AVE	144+19	LT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
11-6	WISC. AVE	145+09	LT	R2-1	30	24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
11-7	WISC. AVE	145+09	LT	S5-2		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
11-8	WISC. AVE	145+19	LT	R7-2MOD	LA; LOADING ZONE ANY TIME,RA	24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
11-9	WISC. AVE	145+92	LT	R7-2MOD	LA,LOADING ZONE ANY TIME; RA	24	X 18	1	-	-	3.0	1	-
11-10	WISC. AVE	146+03	LT	S1-1		36	X 36	-	-	-	9.0	1	ATTACH TO LIGHT POLE
11-11	WISC. AVE	146+03	LT	S16-9P		24	X 8	-	-	-	1.3	1	ATTACH TO LIGHT POLE
11-12	WISC. AVE	146+18	LT	R1-1		30	X 30	1	-	-	6.3	1	-
11-13	WISC. AVE	146+02	LT	S1-1		36	X 36	-	1	-	9.0	1	-
11-13A	WISC. AVE	146+02	LT	S16-9P		24	X 8	-	-	-	1.3	1	ON POST WITH SIGN 11-13
11-14	WISC. AVE	146+75	LT	R4-7		24	X 30	1	-	-	5.0	1	-
11-15	WISC. AVE	147+12	LT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	1	-	-	1.5	1	-

ALL CATEGORY 0010

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		FOR INFORMATION ONLY: CITY FURNISHED POSTS 14 FT EACH	FOR INFORMATION ONLY: CITY FURNISHED POSTS 16 FT EACH	FOR INFORMATION ONLY: CITY FURNISHED POSTS 18 FT EACH	FOR INFORMATION ONLY: CITY FURNISHED SIGNS TYPE II SF	SPV.0060.002 INSTALL CITY FURNISHED SIGN EACH	REMARKS
11-16	WISC. AVE	148+45	LT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	1	-	-	1.5	1	-
11-17	WISC. AVE	148+92	LT	R4-7		24	X 30	1	-	-	5.0	1	-
11-18	WISC. AVE	148+90	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
11-19	WISC. AVE	147+80	RT	R7-108MOD WITH R7-2MOD	LA; 2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY,RA	24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
11-19A	WISC. AVE	147+06	RT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	1	-	-	1.5	1	-
11-20	WISC. AVE	146+60	RT	R1-1		30	X 30	1	-	-	6.3	1	-
11-21	WISC. AVE	145+09	LT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
11-22	WISC. AVE	145+09	LT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
11-23	WISC. AVE	145+17	RT	R2-1	30	24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
11-24	WISC. AVE	145+17	RT	S5-2		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
11-25	WISC. AVE	145+17	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
11-26	WISC. AVE	143+89	RT	R7-2MOD	LA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
11-27	WISC. AVE	143+21	RT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
12-1	WISC. AVE	149+10	LT	R1-1		30	X 30	1	-	-	6.3	1	-
12-2	WISC. AVE	149+71	LT	R4-7		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
12-3	WISC. AVE	150+68	LT	R7-2MOD	BUS STOP, LA; RA	24	X 18	1	-	-	3.0	1	-
12-4	WISC. AVE	151+28	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
12-5	WISC. AVE	151+84	LT	W11-2		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE
12-6	WISC. AVE	151+84	LT	S16-7L		24	X 12	-	-	-	2.0	1	ATTACH TO LIGHT POLE
12-7	WISC. AVE	152+09	LT	R1-1		30	X 30	1	-	-	6.3	1	-
12-8	WISC. AVE	151+89	LT	W11-2		30	X 30	-	1	-	6.3	1	-
12-9	WISC. AVE	151+89	LT	S16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 12-8
12-10	WISC. AVE	151+89	LT	W11-2		30	X 30	-	-	-	6.3	1	ON POST WITH SIGN 12-8
12-11	WISC. AVE	151+89	LT	S16-7R		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 12-8
12-12	WISC. AVE	152+78	LT	R4-7		24	X 30	-	-	-	5.0	1	ATTACH TO LIGHT POLE
12-13	WISC. AVE	152+59	LT	R9-3A		24	X 24	1	-	-	4.0	1	-
12-14	WISC. AVE	152+79	LT	R7-2MOD	LA; LOADING ZONE 7AM TO 6PM, RA	24	X 18	1	-	-	3.0	1	-
12-15	WISC. AVE	153+76	LT	R7-2MOD	LOADING ZONE 7AM TO 6PM, LA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
12-16	WISC. AVE	154+07	LT	R7-2MOD	BUS STOP, RA	12	X 18	1	-	-	1.5	1	-
12-17	WISC. AVE	153+76	RT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
12-18	WISC. AVE	152+78	RT	R7-108MOD WITH R7-2MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, LA; BETWEEN SIGNS, RA	24	X 18	1	-	-	3.0	1	-
12-19	WISC. AVE	152+39	RT	R9-3A		24	X 24	1	-	-	4.0	1	-
12-20	WISC. AVE	151+92	RT	W11-2		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE

ALL CATEGORY 0010

3

3

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		FOR INFORMATION ONLY: CITY FURNISHED POSTS 14 FT EACH	CITY FURNISHED POSTS 16 FT EACH	CITY FURNISHED POSTS 18 FT EACH	CITY FURNISHED SIGNS TYPE II SF	SPV.0060.002 INSTALL CITY FURNISHED SIGN EACH	REMARKS
12-21	WISC. AVE	151+92	RT	S16-7L		24	X 12	-	-	-	2.0	1	ATTACH TO LIGHT POLE
12-22	WISC. AVE	151+92	RT	R7-108MOD WITH R7-2MOD	BETWEEN SIGNS, LA; 2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, RA	24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
12-23	WISC. AVE	151+12	RT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
12-24	WISC. AVE	149+76	RT	R7-108MOD WITH R7-2MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, LA; BUS STOP, RA	24	X 18	1	-	-	3.0	1	-
13-1	WISC. AVE	155+34	LT	R7-2MOD	LA, BUS STOP; RA	24	X 18	1	-	-	3.0	1	-
13-2	WISC. AVE	155+69	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
13-3	WISC. AVE	155+87	LT	R4-7		24	X 30	1	-	-	5.0	1	-
13-4	WISC. AVE	156+64	LT	R4-7		24	X 30	1	-	-	5.0	1	-
13-5	WISC. AVE	156+70	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
13-6	WISC. AVE	156+49	RT	R1-1		30	X 30	1	-	-	6.3	1	-
13-7	WISC. AVE	155+03	RT	R7-108MOD WITH R7-2MOD	BUS STOP, LA; 2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, RA	24	X 18	1	-	-	3.0	1	-
						TOTAL		56	16	9	811.7	200	

ALL CATEGORY 0010

3

REMOVING SIGNS TYPE II

REMOVAL NO.	LOCATION	STATION	OFFSET	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
4-1	WISC. AVE	106+31	LT	1	-
4-2	WISC. AVE	106+09	RT	1	1
5-1	WISC. AVE	107+35	LT	1	1
5-2	WISC. AVE	107+73	LT	1	1
5-3	WISC. AVE	107+73	LT	1	-
5-4	WISC. AVE	107+73	LT	1	-
5-5	WISC. AVE	107+19	LT	1	1
5-6	WISC. AVE	107+91	LT	1	1
5-7	WISC. AVE	107+85	LT	2	1
5-8	WISC. AVE	109+13	LT	1	-
5-9	WISC. AVE	110+77	LT	1	-
5-10	WISC. AVE	110+77	LT	1	-
5-11	WISC. AVE	111+75	LT	1	-
5-12	WISC. AVE	111+98	LT	1	1
5-13	WISC. AVE	112+33	LT	1	1
5-14	WISC. AVE	112+45	LT	2	1
5-15	WISC. AVE	112+85	LT	1	1
5-16	WISC. AVE	111+83	LT	1	1
5-17	WISC. AVE	111+83	LT	1	-
5-18	WISC. AVE	112+49	LT	1	1
5-19	WISC. AVE	112+49	LT	1	-
5-20	WISC. AVE	112+97	LT	2	1
5-21	WISC. AVE	112+93	RT	1	-
5-22	WISC. AVE	112+31	RT	1	-
5-23	WISC. AVE	111+75	RT	1	1
5-24	WISC. AVE	110+77	RT	1	1
5-25	WISC. AVE	109+82	RT	1	-
5-26	WISC. AVE	108+66	RT	1	-
5-27	WISC. AVE	107+95	RT	1	1
5-28	WISC. AVE	107+19	LT	1	-
5-29	WISC. AVE	107+10	RT	1	-
6-1	WISC. AVE	113+55	LT	1	1
6-2	WISC. AVE	113+54	LT	1	-
6-3	WISC. AVE	114+25	LT	1	1
6-4	WISC. AVE	114+33	LT	1	1
6-5	WISC. AVE	115+29	LT	1	1
6-6	WISC. AVE	115+63	LT	2	-
6-7	WISC. AVE	115+73	LT	2	1
6-8	WISC. AVE	116+28	LT	2	1
6-9	WISC. AVE	116+40	LT	1	-
6-10	WISC. AVE	117+26	LT	1	1
6-11	WISC. AVE	117+12	RT	2	1
6-12	WISC. AVE	116+72	RT	1	1
6-13	WISC. AVE	115+62	RT	1	-
6-14	WISC. AVE	115+15	LT	2	1

3

REMOVING SIGNS TYPE II

REMOVAL NO.	LOCATION	STATION	OFFSET	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
6-15	WISC. AVE	115+05	RT	1	1
6-16	WISC. AVE	114+33	RT	1	-
6-17	WISC. AVE	113+57	RT	1	-
6-18	WISC. AVE	113+43	RT	1	-
6-19	WISC. AVE	113+07	RT	1	-
7-1	WISC. AVE	119+36	LT	1	1
7-2	WISC. AVE	119+37	LT	1	-
7-3	WISC. AVE	120+24	LT	2	1
7-4	WISC. AVE	120+38	LT	1	1
7-5	WISC. AVE	120+35	LT	2	-
7-6	WISC. AVE	121+66	LT	1	-
7-7	WISC. AVE	121+82	LT	1	1
7-8	WISC. AVE	122+17	LT	1	-
7-9	WISC. AVE	122+27	LT	2	1
7-10	WISC. AVE	122+57	LT	2	1
7-11	WISC. AVE	122+76	LT	1	-
7-12	WISC. AVE	123+24	LT	1	1
7-13	WISC. AVE	123+54	LT	1	1
7-14	WISC. AVE	124+12	LT	1	1
7-15	WISC. AVE	124+40	LT	1	-
7-16	WISC. AVE	124+02	RT	1	-
7-17	WISC. AVE	124+02	RT	1	-
7-18	WISC. AVE	123+10	RT	1	1
7-19	WISC. AVE	122+15	RT	1	-
7-20	WISC. AVE	121+28	RT	1	1
7-21	WISC. AVE	120+04	RT	1	1
7-22	WISC. AVE	119+54	RT	2	1
8-1	WISC. AVE	125+44	LT	1	1
8-2	WISC. AVE	125+93	LT	1	-
8-3	WISC. AVE	126+36	LT	1	1
8-4	WISC. AVE	126+79	LT	1	-
8-5	WISC. AVE	127+04	LT	1	-
8-6	WISC. AVE	127+05	RT	1	1
8-7	WISC. AVE	126+26	RT	1	1
8-8	WISC. AVE	125+23	RT	1	1
9-1	WISC. AVE	133+34	LT	2	-
9-2	WISC. AVE	133+40	LT	1	-
9-3	WISC. AVE	133+53	LT	1	-
9-4	WISC. AVE	133+99	LT	1	-
9-5	WISC. AVE	134+13	LT	1	-
9-6	WISC. AVE	134+13	LT	2	-
9-7	WISC. AVE	135+24	LT	2	-
9-8	WISC. AVE	135+24	LT	1	-
9-9	WISC. AVE	136+61	LT	1	-
9-10	WISC. AVE	136+99	RT	2	-

ALL CATEGORY 0010

REMOVING SIGNS TYPE II

REMOVAL NO.	LOCATION	STATION	OFFSET	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
9-11	WISC. AVE	136+16	RT	1	-
9-12	WISC. AVE	135+21	RT	2	-
9-13	WISC. AVE	134+52	RT	2	-
9-14	WISC. AVE	134+07	RT	1	-
9-15	WISC. AVE	133+92	RT	1	-
9-16	WISC. AVE	133+51	RT	1	-
9-17	WISC. AVE	133+37	RT	1	-
10-1	WISC. AVE	137+20	LT	1	-
10-2	WISC. AVE	137+75	LT	2	-
10-3	WISC. AVE	137+72	LT	2	1
10-4	WISC. AVE	138+55	LT	1	1
10-5	WISC. AVE	139+69	LT	2	-
10-6	WISC. AVE	141+18	LT	1	-
10-7	WISC. AVE	142+05	LT	1	-
10-8	WISC. AVE	142+56	LT	2	-
10-9	WISC. AVE	142+53	LT	1	-
10-10	WISC. AVE	142+67	LT	1	-
10-11	WISC. AVE	142+69	RT	1	-
10-12	WISC. AVE	141+59	RT	1	-
10-13	WISC. AVE	139+74	RT	1	-
10-14	WISC. AVE	137+56	RT	1	1
10-15	WISC. AVE	137+08	LT	2	1
11-1	WISC. AVE	143+08	LT	1	-
11-2	WISC. AVE	143+22	LT	1	-
11-3	WISC. AVE	143+20	LT	2	-
11-4	WISC. AVE	144+19	LT	3	-
11-5	WISC. AVE	145+10	LT	2	-
11-6	WISC. AVE	145+19	LT	1	-
11-7	WISC. AVE	145+98	LT	1	1
11-8	WISC. AVE	146+03	LT	2	-
11-9	WISC. AVE	146+19	LT	1	1
11-10	WISC. AVE	146+09	LT	3	1
11-11	WISC. AVE	146+66	LT	2	1
11-12	WISC. AVE	146+91	RT	1	1
11-13	WISC. AVE	147+12	LT	1	1
11-14	WISC. AVE	148+29	LT	1	1
11-15	WISC. AVE	148+97	LT	2	1
11-16	WISC. AVE	148+90	RT	1	-
11-17	WISC. AVE	147+73	RT	1	-
11-18	WISC. AVE	146+59	RT	1	1
11-19	WISC. AVE	145+11	RT	1	-
11-20	WISC. AVE	145+11	RT	1	-
11-21	WISC. AVE	145+05	LT	1	-
11-22	WISC. AVE	143+89	RT	1	-
11-23	WISC. AVE	143+23	RT	1	-

3

REMOVING SIGNS TYPE II

REMOVAL NO.	LOCATION	STATION	OFFSET	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
11-24	WISC. AVE	143+09	RT	1	-
12-1	WISC. AVE	149+12	LT	1	1
12-2	WISC. AVE	150+57	LT	1	1
12-3	WISC. AVE	151+28	LT	1	-
12-4	WISC. AVE	152+04	LT	2	1
12-5	WISC. AVE	152+09	LT	1	1
12-6	WISC. AVE	152+68	LT	2	-
12-7	WISC. AVE	152+79	LT	1	1
12-8	WISC. AVE	153+74	LT	1	-
12-9	WISC. AVE	154+07	LT	1	1
12-10	WISC. AVE	153+76	RT	1	-
12-11	WISC. AVE	152+78	RT	1	1
12-12	WISC. AVE	152+75	LT	1	1
12-13	WISC. AVE	152+68	LT	1	-
12-14	WISC. AVE	151+92	RT	2	-
12-15	WISC. AVE	151+12	RT	1	-
12-16	WISC. AVE	149+60	LT	2	1
12-17	WISC. AVE	149+49	RT	1	-
13-1	WISC. AVE	155+34	LT	1	1
13-2	WISC. AVE	155+97	LT	1	-
13-3	WISC. AVE	156+57	LT	2	1
13-4	WISC. AVE	156+69	LT	1	-
13-5	WISC. AVE	156+59	RT	1	1
13-6	WISC. AVE	155+89	LT	2	-
13-7	WISC. AVE	155+10	RT	1	1
			TOTAL	199	71

ALL CATEGORY 0010

3

MOVING SIGNS

SIGN NO.	LOCATION	STATION	OFFSET	REMARKS	CAT 10 638.2102 MOVING SIGNS TYPE II EACH	CAT 10 638.4000 MOVING SMALL SIGN SUPPORT EACH
5-1	WISC. AVE	111+60	RT	ATTACH TO LIGHT POLE	1	
6-1	WISC. AVE	113+07	RT	ATTACH TO LIGHT POLE	1	
6-2	WISC. AVE	116+38	RT	ATTACH TO LIGHT POLE	1	
7-1	WISC. AVE	119+68	RT	ATTACH TO LIGHT POLE	1	
7-2	WISC. AVE	122+14	RT	ATTACH TO LIGHT POLE	1	
7-3	WISC. AVE	122+72	RT	ATTACH TO LIGHT POLE	1	
8-1	WISC. AVE	125+78	RT	ATTACH TO LIGHT POLE	1	
10-1	WISC. AVE	138+85	LT	ATTACH TO LIGHT POLE	1	
11-1	WISC. AVE	147+79	LT	ATTACH TO LIGHT POLE	1	
11-2	WISC. AVE	147+92	LT	ATTACH TO SIGN POST	1	1
12-1	WISC. AVE	152+78	LT	ATTACH TO LIGHT POLE	1	
12-2	WISC. AVE	154+83	RT	ATTACH TO LIGHT POLE	2	
					13	1

3

PEDESTRIAN ACCOMODATIONS

STREET	LOCATION	CAT 10 603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	CAT 10 603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	CAT 10 616.0700.S FENCE SAFETY LF	CAT 10 644.1430.S TEMPORARY PEDESTRIAN SURFACE PLATE SF	CAT 10 644.1601.S TEMPORARY CURB RAMP EACH	CAT 10 644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF	CAT 10 SPV.0060.001 TEMPORARY BUS LOADING ZONE EACH
WISC. AVE	105+63.5 - 127+20	3700	3700		1000	25	8040	4
WISC. AVE	133+12 - 157+00	4030	4030		1320	33	8920	4
	UNDISTRIBUTED			400				
	PROJECT TOTAL	7,730	7,730	400	2,320	58	16,960	8

MARKING LINES

STREET	LOCATION	CAT 10 646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	CAT 10 646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	CAT 10 646.3020 MARKING LINE EPOXY 8-INCH LF	CAT 10 646.5220 MARKING SYMBOL EPOXY EACH	CAT 20 SPV.0090.001 MARKING CROSSWALK PREFORMED PLASTIC 8-INCH LF	CAT 20 SPV.0090.002 MARKING STOP LINE PREFORMED PLASTIC 24-INCH LF	CAT 20 SPV.0090.007 MARKING CROSSWALK PREFORMED PLASTIC LADDER PATTERN 24-INCH LF
WISC. AVE	105+63.5 - 127+20	895	--	400	19	1740	88	156
WISC. AVE	133+12 - 157+00	981	--	695	14	2038	240	78
	PROJECT TOTAL	1,876		1,095	33	3,778	328	234

TRAFFIC CONTROL

LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS
STAGE 1A	3	29	87	0	0	10	30	0	0	20	60	29	87	23	69
STAGE 1B	38	24	912	30	1,140	89	3,382	88	88	178	6,764	24	912	98	3,724
STAGE 2A	47	33	1,551	30	1,410	67	3,149	81	81	134	6,298	33	1,551	85	3,995
STAGE 2C	10	63	630	0	0	17	170	0	0	34	340	63	630	28	280
STAGE 3A	3	90	270	0	0	36	108	81	81	72	216	90	270	55	165
STAGE 3B	37	68	2,516	30	1,110	106	3,922	81	81	212	7,844	68	2,516	112	4,144
STAGE 4A	50	85	4,250	36	1,800	75	3,750	85	85	150	7,500	85	4,250	121	6,050
STAGE 4B	10	143	1,430	0	0	45	450	0	0	90	900	143	1,430	67	670
PROJECT TOTALS	198		11,646		5,460		14,961	416	416		29,922		11,646		19,097

TRAFFIC CONTROL

TRAFFIC CONTROL

LOCATION	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (WHITE) LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) LF
STAGE 1A	0	0	0	360	0
STAGE 1B	145	4,000	150	210	0
STAGE 2A	0	0	550	4,220	20
STAGE 2C	0	0	0	630	20
STAGE 3A	0	3,860	0	380	0
STAGE 3B	95	3,480	735	400	0
STAGE 4A	0	0	810	4,440	0
STAGE 4B	0	0	0	405	0
PROJECT TOTALS	240	11,340	2,245	11,045	40
	TOTAL	11,580		13,290	

ALL CATEGORY 0010

TYPE II SIGNS

								FOR INFORMATION ONLY				SPV.0060.002	
								CITY FURNISHED POSTS 14 FT	CITY FURNISHED POSTS 16 FT	CITY FURNISHED POSTS 18 FT	CITY FURNISHED SIGNS TYPE II	INSTALL CITY FURNISHED SIGN	
SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		EACH	EACH	EACH	SF	EACH	REMARKS
1-1	USH 18	21+27	LT	R3-2		24	X 24	-	-	-	4.0	1	ATTACH TO LIGHT POLE
1-2	USH 18	21+27	LT	R3-5OR		30	X 36	-	-	-	7.5	1	ATTACH TO LIGHT POLE
1-3	USH 18	21+70	LT	W11-2		30	X 30	-	1	-	6.3	1	-
1-4	USH 18	21+70	LT	S16-7L		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 1-3
1-5	USH 18	21+70	LT	W11-2		30	X 30	-	-	-	6.3	1	ON POST WITH SIGN 1-3
1-6	USH 18	21+70	LT	S16-7L		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 1-3
1-7	USH 18	21+92	LT	R3-17 WITH R3-17A		30	X 36	-	1	-	7.5	1	-
1-8	USH 18	21+92	LT	R7-2MOD WITH R7-108MOD	LA; 1 HOUR, 8:00 AM TO 6:00 PM, EXCEPT SUNDAY, RA	24	X 18	-	-	-	3.0	1	ON POST WITH SIGN 1-7
1-9	USH 18	21+69	LT	W11-2		30	X 30	-	1	-	6.3	1	-
1-10	USH 18	21+69	LT	S16-7L		24	X 12	-	-	-	2.0	1	ON POST WITH SIGN 1-9
1-11	USH 18	21+43	RT	R3-5OR		30	X 36	-	-	-	7.5	1	ATTACH TO LIGHT POLE
1-12	USH 18	21+43	RT	R1-1		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE
1-13	USH 18	20+96	RT	R5-1		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE (OCTAGONAL)
1-14	USH 18	20+96	RT	R1-1		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE
1-15	USH 18	20+95	RT	R3-4		24	X 24	-	1	-	4.0	1	-
1-16	USH 18	20+95	RT	R1-1		30	X 30	-	-	-	6.3	1	ON POST WITH SIGN 1-15
1-17	USH 18	20+95	RT	R6-2R		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 1-18
1-18	USH 18	20+95	RT	R6-2L		24	X 30	-	1	-	5.0	1	-
2-1	USH 18	22+68	LT	R4-7		24	X 30	1	-	-	5.0	1	ATTACH TO LIGHT POLE
2-2	USH 18	22+68	LT	R3-18		24	X 24	-	-	-	4.0	1	ATTACH TO LIGHT POLE
2-3	USH 18	22+97	LT	R2-1	30	24	X 30	-	-	1	5.0	1	-
2-4	USH 18	22+97	LT	S5-2		24	X 30	-	-	-	5.0		ON POST WITH SIGN 2-3
2-5	USH 18	23+42	LT	R7-108MOD WITH R7-2MOD	1 HOUR, 8:00 AM TO 6:00 PM, EXCEPT SUNDAY, LA; RA	24	X 18	1	-	-	3.0	1	-
2-6	USH 18	22+93	LT	R2-1	30	24	X 30	-	-	1	5.0	1	-
2-7	USH 18	22+93	LT	S5-2		24	X 30	-	-	-	5.0	1	ON POST WITH SIGN 2-6
2-8	USH 18	24+41	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
2-9	USH 18	24+75	LT	R1-1		30	X 30	1	-	-	6.3	1	-
2-10	USH 18	25+13	LT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
2-11	USH 18	25+13	LT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
2-12	USH 18	25+73	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
2-12A	USH 18	26+34	LT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
2-13	USH 18	26+32	LT	R4-7		24	X 30	1	-	-	5.0	1	-
2-14	USH 18	27+49	LT	R4-7		24	X 30	1	-	-	5.0	1	-
2-15	USH 18	27+35	LT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
2-16	USH 18	27+54	LT	R7-2MOD	DA	12	X 18	1	-	-	1.5	1	-
2-17	USH 18	27+66	RT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	1	-	-	1.5	1	-
2-18	USH 18	27+35	RT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
2-19	USH 18	26+34	RT	R10-3EL		6	X 10	-	-	-	0.4	1	ATTACH TO LIGHT POLE/SIGNAL
2-20	USH 18	25+69	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE

TYPE II SIGNS

								FOR INFORMATION ONLY				SPV.0060.002	
								CITY FURNISHED POSTS 14 FT	CITY FURNISHED POSTS 16 FT	CITY FURNISHED POSTS 18 FT	CITY FURNISHED SIGNS TYPE II	INSTALL CITY FURNISHED SIGN	
SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		EACH	EACH	EACH	SF	EACH	REMARKS
2-20	USH 18	25+69	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
2-21	USH 18	25+08	RT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
2-22	USH 18	0+01	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
2-23	USH 18	22+93	LT	S1-1		36	X 36	-	-	-	9.0	1	ON POST WITH 2-6
2-24	USH 18	22+93	LT	S16-9P		24	X 8	-	-	-	1.3	1	ATTACH TO LIGHT POLE
2-25	USH 18	22+83	RT	S1-1		36	X 36	-	-	-	9.0	1	ATTACH TO LIGHT POLE
2-26	USH 18	22+83	RT	S16-9P		24	X 8	-	-	-	1.3	1	ATTACH TO LIGHT POLE
2-27	USH 18	22+04	RT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
3-1	USH 18	28+19	LT	S4-51		24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
3-2	USH 18	28+19	LT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
3-3	USH 18	29+08	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
3-4	USH 18	29+80	LT	R4-7		24	X 30	1	-	-	5.0	1	-
3-5	USH 18	30+93	LT	R4-7		24	X 30	1	-	-	5.0	1	-
3-6	USH 18	32+12	LT	R7-108MOD WITH R7-2MOD	EXCEPT SUNDAY, LA; 2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, RA	24	X 18	1	-	-	3.0	1	-
3-7	USH 18	32+51	RT	S4-51	20	24	X 48	-	-	-	8.0	1	ATTACH TO LIGHT POLE
3-8	USH 18	32+51	RT	R2-6P		24	X 18	-	-	-	3.0	1	ATTACH TO LIGHT POLE
3-9	USH 18	31+92	RT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, LA; RA	24	X 18	1	-	-	3.0	1	-
3-10	USH 18	29+32	RT	R7-108MOD	2 HOUR, 7:00 AM TO 7:00 PM, EXCEPT SUNDAY, DA	12	X 18	1	-	-	1.5	1	-
14-1	36TH/37TH ST	25+14	LT	R4-7		24	X 30	-	-	1	5.0	1	-
14-2	36TH/37TH ST	25+14	LT	W5-52L		12	X 36	-	-	-	3.0	1	ON POST WITH SIGN 14-1
14-3	36TH/37TH ST	25+04	LT	W12-1D		24	X 24	1	-	-	4.0	1	-
14-4	36TH/37TH ST	24+82	LT	R7-2MOD	DA	12	X 18	-	-	-	1.5	1	ATTACH TO LIGHT POLE
14-5	36TH/37TH ST	25+23	LT	W5-52L		12	X 36	-	1	-	3.0	1	-
14-6	36TH/37TH ST	25+53	LT	W5-52L		12	X 36	-	1	-	3.0	1	-
14-7	36TH/37TH ST	25+76	LT	R4-7		24	X 30	-	-	1	5.0	1	-
14-8	36TH/37TH ST	25+76	LT	W5-52L		12	X 36	-	-	-	3.0	1	ON POST WITH SIGN 14-7
14-9	36TH/37TH ST	26+24	LT	W1-2R		30	X 30	-	-	-	6.3	1	ATTACH TO LIGHT POLE
						TOTAL		13	7	4	268.1	64	

ALL CATEGORY 0010

REMOVING SIGNS TYPE II

REMOVAL NO.	LOCATION	STATION	OFFSET	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
1-1	USH 18	21+27	LT	1	-
1-2	USH 18	21+66	LT	2	1
1-3	USH 18	21+66	LT	2	-
1-4	USH 18	21+66	LT	2	1
1-5	USH 18	21+44	RT	2	-
1-6	USH 18	20+96	RT	1	-
1-7	USH 18	20+96	RT	1	-
1-8	USH 18	20+97	RT	3	1
2-1	USH 18	22+04	LT	1	-
2-2	USH 18	22+04	LT	1	-
2-3	USH 18	22+76	LT	2	-
2-4	USH 18	22+95	LT	1	-
2-5	USH 18	22+92	LT	1	1
2-6	USH 18	22+34	LT	1	-
2-7	USH 18	24+59	LT	1	1
2-8	USH 18	24+82	LT	1	-
2-9	USH 18	24+93	LT	1	1
2-10	USH 18	24+98	LT	1	1
2-11	USH 18	26+24	LT	1	1
2-12	USH 18	27+32	LT	1	-
2-13	USH 18	27+59	LT	1	-
2-14	USH 18	27+72	LT	1	1
2-15	USH 18	27+42	LT	2	-
2-16	USH 18	26+30	LT	2	-
2-17	USH 18	25+56	LT	1	-
2-18	USH 18	25+08	RT	1	-
2-19	USH 18	24+53	LT	1	1
2-20	USH 18	24+33	RT	1	-
2-21	USH 18	22+84	RT	2	-
2-22	USH 18	22+06	RT	1	-
3-1	USH 18	28+18	LT	2	-
3-2	USH 18	29+06	LT	1	-
3-3	USH 18	29+97	LT	1	-
3-4	USH 18	32+12	LT	1	1
3-5	USH 18	32+48	LT	1	-
3-6	USH 18	32+48	RT	1	-
3-7	USH 18	31+73	RT	1	-
3-8	USH 18	30+73	LT	4	1
3-9	USH 18	30+71	RT	2	-
3-10	USH 18	29+87	LT	2	-
3-11	USH 18	29+37	RT	1	1
14-1	USH 18	25+13	LT	1	1
14-2	USH 18	25+14	LT	1	1
14-3	USH 18	25+15	LT	1	1
14-4	USH 18	24+81	LT	2	-
14-5	USH 18	25+15	LT	2	1
14-6	USH 18	25+50	LT	1	1
14-7	USH 18	25+74	LT	1	1
14-8	USH 18	25+57	LT	1	1
			TOTAL	67 *	20

*** DENOTES ADDITIONAL QUANTITIES SHOWN ELSEWHERE**

MOVING SIGNS

SIGN NO.	LOCATION	STATION	OFFSET	REMARKS	638.2102 MOVING SIGNS TYPE II EACH
2-1	USH 18	22+04	RT	ATTACH TO LIGHT POLE	1
3-1	USH 18	32+51	RT	ATTACH TO LIGHT POLE	1
				TOTAL	2

3

ALL CATEGORY 0010

3

TRAFFIC CONTROL

LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS
STAGE 1A	3	27	81	6	18	2	6	0	0	4	12	27	81	18	54
STAGE 1B	38	122	4,636	16	608	49	1,862	72	72	98	3,724	122	4,636	74	2,812
STAGE 2A	47	149	7,003	6	282	73	3,431	65	65	146	6,862	149	7,003	68	3,196
STAGE 2C	10	92	920	2	20	18	180	0	0	36	360	92	920	28	280
PROJECT TOTALS	98		12,640		928		5,479	137	137		10,958		12,640		6,342

TRAFFIC CONTROL

LOCATION	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II NO.	CYCLES	EACH	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (WHITE) LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0205 TEMPORARY MARKING LINE PAINT 8-INCH (WHITE) LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE) LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF
STAGE 1A	0	1	0	0	0	0	0	0	280	0	0	125	0
STAGE 1B	0	1	0	600	0	0	1,460	2,630	1,845	1,395	325	150	58
STAGE 2A	4	1	4	380	60	1	0	0	2,140	4,460	0	345	57
STAGE 2C	0	1	0	0	0	0	0	0	610	0	0	110	0
PROJECT TOTALS			4	980	60	1	1,460	2,630	4,875	5,855	325	730	115
							TOTAL	4,090		10,730			

ALL CATEGORY 0010

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

PEDESTRIAN ACCOMODATIONS

STREET	LOCATION		CAT 10 603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	CAT 10 603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	CAT 10 616.0700.S FENCE SAFETY LF	CAT 10 644.1430.S TEMPORARY PEDESTRIAN SURFACE PLATE SF	CAT 10 644.1601.S TEMPORARY CURB RAMP EACH	CAT 10 644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF	CAT 10 SPV.0060.001 TEMPORARY BUS LOADING ZONE EACH
USH 18/WISC. AVE.	17+00 -	32+63.5	1760	1760		360	9	3770	4
36TH/37TH STREET	--	--	0	0		80	2	0	2
	UNDISTRIBUTED				200				
	PROJECT TOTAL		1,760	1,760	200	440	11	3,770	6

MARKING LINES

STREET	LOCATION		CAT 10 646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	CAT 10 646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	CAT 10 646.3020 MARKING LINE EPOXY 8-INCH LF	CAT 10 646.5220 MARKING SYMBOL EPOXY EACH	CAT 10 646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	CAT 40 SPV.0060.003 MARKING SYMBOL PREFORMED PLASTIC EACH	CAT 40 SPV.0060.004 MARKING ARROW PREFORMED PLASTIC EACH	CAT 40 SPV.0060.005 MARKING WORD PREFORMED PLASTIC EACH
USH 18	17+00 -	32+63.5	669	1111	523	3	--	4	4	--
35TH STREET	--	--	399	1564	200	--	--	--	2	2
36TH/37TH	--	--	--	562	390	--	60	--	2	2
	PROJECT TOTAL		4,305		1,113	3	60	4	8	4

MARKING LINES

STREET	LOCATION		CAT 40 SPV.0060.027 SKID/SLIP RESISTANT GREEN PREFORMED THERMOPLASTIC INTERGRATED BIKE LANE ARROW EACH	CAT 40 SPV.0060.028 SKID/SLIP RESISTANT GREEN PREFORMED THERMOPLASTIC INTERGRATED BIKE LANE SYMBOL EACH	CAT 40 SPV.0090.001 MARKING CROSSWALK PREFORMED PLASTIC 8-INCH LF	CAT 40 SPV.0090.002 MARKING STOP LINE PREFORMED PLASTIC 24-INCH LF	CAT 10 SPV.0090.006 MARKING LINE EPOXY 6-INCH WHITE LF	CAT 40 SPV.0165.001 SKID/SLIP RESISTANT GREEN PREFORMED THERMOPLASTIC INTERGRATED BIKE LANE PANEL SF
USH 18	17+00 -	32+63.5	2	2	800	200	1458	280
35TH STREET	--	--	--	--	230	67	--	--
36TH/37TH	--	--	--	--	246	54	--	--
	PROJECT TOTAL		2	2	1,276	321	1,458	280

TYPE II PERMANENT SIGNING - 2190 - 00 - 71 — 2190 - 00 - 71 STH 18

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	638.2602 REMOVING SIGNS TYPE II [EA]	REMARKS / NEW SIGN LOCATION
1	J2-1 (2)		24 x 57	9.500		MOUNT ON LIGHT POLE
	M3-2		24 x 12			
	M1-6	STH 18	24 x 24			
	M4-22L		24 x 21			
2	J2-1	EAST / STH 18 / ADV. LEFT TURN	-- x --	--	1	REMOVE FROM LIGHT POLE
3	J4-1(2)		24 x 36	6.000	1	MOUNT NEW & REMV. OLD SIGN FROM LIGHT POLE
	M3-4		24 x 12			
	M1-6	STH 18	24 x 24			
4	J3-2(2)		48 x 60	20.000		MOUNT ON SIGNAL POLE
	M3-2		24 x 12			
	M1-6	STH 18	24 x 24			
	M4-20L		24 x 24			
	MB4-5		24 x 12			
	MB1-1	IH 94	24 x 24			
	MB5-1R		21 x 21			
5	J3-2(2)	EAST / STH 18 / USE LEFT LANE	x		1	REMOVE FROM SIGNAL POLE
		TO/ IH 94/ ADV RIGHT TURN	x			
6	J3-1	WEST / STH 18 / ARROW	x		1	REMOVE FROM LIGHT POLE
7	J3-1(2)		24 x 57	9.500		MOUNT ON LIGHT POLE
	M3-2		24 x 12			
	M1-6	STH 18	24 x 24			
	M6-1		21 x 21			
8	J3-1(2)	--	24 x 57	9.500	1	MOUNT NEW & REMV. OLD SIGN FROM SIGNAL POLE
	MB4-5		24 x 12			
	MB1-1	IH 94	24 x 24			
	MB6-1		21 x 21			
9	J4-1(2)		24 x 36	6.000	1	MOUNT NEW & REMV. OLD SIGN FROM LIGHT POLE
	M3-2		24 x 12			
	M1-6	STH 18	24 x 24			
10	J3-1(2)	--	24 x 57	9.500	1	MOUNT NEW & REMV. OLD SIGN FROM SIGNAL POLE
	MB4-5		24 x 12			
	MB1-1	IH 94	24 x 24			
	MB6-1		21 x 21			
11	J3-1(2)		24 x 57	9.500		MOUNT ON LIGHT POLE
	M3-4		24 x 12			
	M1-6	STH 18	24 x 24			
	M6-1		21 x 21			
TOTALS				79.500	7 *	

* DENOTES ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
CONDUIT SPECIAL 3-INCH

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1		33	
PB1	PB2		84	
PB2	PB3		106	
PB3	PB4		78	
PB4	PB5		42	
PB5	PB6		124	
PB6	PB7		90	
PB7	PB8		98	
PB8	PB9		90	
PB9	PB10		108	
PB10	PB11			110
PB11	CB1		21	
PB1	SB1		5	
PB1	SB2	6		
PB4	SB4		8	
PB5	SB5	5		
PB6	SB6		16	
PB9	SB8		9	
PB10	SB9	21		
	*** TOTALS	32	912	110

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: SIGNAL EQUIPTMENET ON STREET LIGHT POLES SHALL USE STREET LIGHTING CONDUIT

CONCRETE BASES TYPE 1
CONCRETE BASES TYPE 10
CONCRETE BASES TYPE 10 SPECIAL
CONCRETE BASES TYPE 13
INSTALL CITY PRECAST CONTROL BASE

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.203 CONCRETE BASES TYPE 10 SPECIAL EACH	654.0113 CONCRETE BASES TYPE 13 EACH	SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE EACH
CB1	26+61.2	54.6' RT					1
SB1	26+61.2	48.5' RT		1			
SB2	26+57.0	38.9' RT	1				
SB4	26+32.0	64.5' LT			1		
SB5	26+37.1	73.6' LT	1				
SB6	27+16.0	76.0' LT		1			
SB8	27+34.5	27.3' RT				1	
SB9	27+19.1	40.8' RT	1				
		*** TOTALS	3	2	1	1	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH

PULL BOX NO.	STATION	LOCATION	SPV.0060.303 FIBER'GLASS/POLYMER CONCRETE PULL BOX 17-INCH x 30-INCH x 24-INCH EACH
PB1	26+60.0	44.1' RT	1
PB2	26+27.0	27.1' RT	1
PB3	26+27.0	19.8' LT	1
PB4	26+27.0	63.9' LT	1
PB5	26+36.4	77.8' LT	1
PB6	27+04.3	87.0' LT	1
PB7	27+42.7	64.5' LT	1
PB8	27+42.9	16.1' LT	1
PB9	27+43.2	28.8' RT	1
PB10	27+17.7	61.6' RT	1
PB11	26+62.9	61.8' RT	1
		*** TOTALS	11

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 36TH STREET
PAGE 1 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 7-14 AWG
CABLE TRAFFIC SIGNAL 12-14 AWG
CABLE TRAFFIC SIGNAL 15-14 AWG
CABLE TRAFFIC SIGNAL 19-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0280 CABLE TRAFFIC SIGNAL 19-14 AWG L.F.
CB1	SB1		43			
SB1	HEAD 16	49				
CB1	SB2		44			
SB2	HEAD 24	15				
CB1	SB3			103		
SB3	HEAD 9	19				
SB3	HEAD 17	15				
CB1	SB4				228	
SB4	HEAD 7	56				
SB4	HEAD 8	44				
SB4	HEAD 10	65				
SB4	HEAD18	15				
CB1	SB5			262		
SB5	HEAD 12	15				
SB5	HEAD 19	18				
CB1	SB6			351		
SB6	HEAD 13	50				
SB6	HEAD 20	15				
CB1	SB7				309	
SB7	HEAD 4		20			
SB7	HEAD 6	19				
SB7	HEAD 21	15				
CB1	SB8					184
SB8	HEAD 2	58				
SB8	HEAD 3	44				
SB8	HEAD 5		71			
SB8	HEAH 22	15				
CB1	SB9			126		
SB9	HEAD 11	19				
SB9	HEAD 15	19				
SB9	HEAD 23	15				
	*** TOTALS	580	178	842	537	184

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

FROM	TO	655.0515 ELETRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	71
SB1	SB2	125
SB2	SB3	111
SB3	SB4	155
SB4	SB5	118
SB5	SB6	113
SB6	SB7	103
SB7	SB8	164
SB8	CB1	48
	*** TOTAL	1008

* INCLUDE GROUNDING ROD FOR CB1, SB3, SB5, & SB7
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
INTERSECTION OF W WISCONSIN AVE & N 36TH ST

BASE NO.	656.0200.001 ELETRICAL SERVICE METER BREAKER PEDESTAL L.S.
CB1	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

TRAFFIC SIGNAL EVP DETECTOR CABLE
TYPE UF CABLE 2 CONDUCTOR

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.004 TYPE UF CABLE 2 CONDUCTOR NO. 14 L.F.
CB1	SB4 (HEAD A)	268	268
CB1	SB8 (HEAD B)	224	224
CB1	SB6 (HEAD C)	394	394
CB1	SB6 (HEAD D)	394	394
***TOTAL		1280	1280

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 36TH STREET
PAGE 2 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

3

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT
TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT
POLES TYPE 10
POLES TYPE 13 SPECIAL
POLES TYPE 13
MONOTUBE ARMS 25-FT
MONOTUBE ARMS 40-FT
MONOTUBE ARMS 45-FT
PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	SPV.0060.246 POLES TYPE 10 EACH	SPV.0060.249 POLES TYPE 13 SPECIAL EACH	SPV.0060.250 POLES TYPE 13 EACH	SPV.0060.259 MONOTUBE ARMS 25-FT EACH	SPV.0060.262 MONOTUBE ARMS 40-FT EACH	SPV.0060.263 MONOTUBE ARMS 45-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1				1			1			
SB2	1	1								
SB3										1
SB4					1			1		1
SB5	1		1							
SB6				1			1			
SB7										1
SB8						1			1	1
SB9	1		1							
*** TOTALS	3	1	2	2	1	1	2	1	1	4

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
SIGNAL BASES SB3 AND SB7 ARE CITY OF MILWAUKEE LIGHT POLES. SEE LIGHTING PLAN.

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 36TH STREET
PAGE 3 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL FACE 3S 12-INCH VERTICAL
TRAFFIC SIGNAL FACE 4S 12-INCH VERTICAL
PEDESTRIAN SIGNAL FACE 12-INCH

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH
1	SB3	1		
2	SB8	1		
3	SB8	1		
4	SB7		1	
5	SB8		1	
6	SB7	1		
7	SB4	1		
8	SB4	1		
9	SB3	1		
10	SB4	1		
11	SB9	1		
12	SB5	1		
13	SB6	1		
14	SB5	1		
15	SB9	1		
16	SB1	1		
17	SB3			1
18	SB4			1
19	SB5			1
20	SB6			1
21	SB7			1
22	SB8			1
23	SB9			1
24	SB2			1
*** TOTALS		14	2	8

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SIGNAL MOUNTING HARDWARE INTERSECTION OF W WISCONSIN AVE & N 36TH ST

LOCATION	658.5069.001 SIGNAL MOUNTING HARDWARE L.S.
W WISCONSIN AVE & N 36TH ST	1
TOTAL	1

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 36TH STREET
PAGE 4 OF 5

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 372	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

FURNISH AND INSTALL RADAR VEHICLE SENSING DEVICE

LOCATION	SPV.0060.016 FURNISH AND INSTALL RADAR VEHICLE SENSING DEVICE L.S.
W WISCONSIN AVE & N 36ND ST	1
TOTAL	1

UNIT	INSTALLATION LOCATION
RA1	STREET LIGHT POLE #3801

ATC CABINET AND CONTROLLER INSTALLED

LOCATION	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED EACH
W WISCONSIN AVE & N 36TH ST	1
***TOTAL	1

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
EVP 1 CHANNEL 2 DIRECTION INFRARED DETECTOR
EVP PHASE SELECTOR CARD 4 CHANNEL
EVP CONFIRMATION LIGHT ASSEMBLY

LOCATION	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR EACH	SPV.0060.219 EVP 1 CHANNEL 2 DIRECTION INFRARED DETECTOR EACH	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL EACH	SPV.0060.223 EVP CONFIRMATION LIGHT ASSEMBLY EACH
CB1	-	-	1	-
HEAD A	1	-	-	1
HEAD B	1	-	-	1
HEAD C & D	-	1	-	2
***TOTAL	2	1	1	4

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

VEHICULAR VIDEO DETECTION SYSTEM

LOCATION	SPV.0105.001 VEHICULAR VIDEO DETECTION SYSTEM L.S.
W WISCONSIN AVE & N 36ND ST	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB8)	ON ARM WITH 6' EXTENSION

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 36TH STREET
PAGE 5 OF 5

3

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1		111
PB1	PB2		204
PB2	PB3		165
PB3	PB4		141
PB4	PB5		111
PB5	PB6		174
PB6	PB7		168
PB7	PB8		156
PB8	PB9		162
PB9	PB10		120
PB10	CB1		36
PB1	SB1	7	
PB2	SB2		10
PB5	SB4		9
PB7	SB6		6
PB10	SB8		9
	*** TOTALS	7	1582

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: SIGNAL EQUIPTMENET ON STREET LIGHT POLES SHALL USE STREET LIGHTING CONDUIT

CONCRETE BASES TYPE 1
CONCRETE BASES TYPE 10 SPECIAL
INSTALL CITY PRECAST CONTROLLER BASE

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.203 CONCRETE BASES TYPE 10 SPECIAL EACH	SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE EACH
CB1	29+75.7	76.7' LT			1
SB1	29+98.2	88.7' LT	1		
SB2	30+71.2	87.3' LT		1	
SB4	30+84.9	24.7' RT		1	
SB6	30+04.5	49.0' RT		1	
SB8	29+84.5	66.4' LT		1	
		*** TOTALS	1	4	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH

PULL BOX NO.	STATION	LOCATION	SPV.0060.303 FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH EACH
PB1	29+98.3	95.9' LT	1
PB2	30+66.9	95.7' LT	1
PB3	30+95.5	59.1' LT	1
PB4	30+93.5	13.0' LT	1
PB5	30+93.6	23.4' RT	1
PB6	30+61.0	54.5' RT	1
PB7	30+05.6	54.7' RT	1
PB8	29+75.6	28.0' RT	1
PB9	29+76.1	26.0' LT	1
PB10	29+75.9	65.3' LT	1
		*** TOTALS	10

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 35TH STREET
PAGE 1 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 7-14 AWG
CABLE TRAFFIC SIGNAL 12-14 AWG
CABLE TRAFFIC SIGNAL 15-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.
CB1	SB1			71	
SB1	HEAD 14	19			
SB1	HEAD 21	15			
CB1	HEAD 27	89			
CB1	SB2			158	
SB2	HEAD 12	58			
SB2	HEAD 13	45			
SB2	HEAD 22	15			
CB1	HEAD 28	207			
CB1	SB3			225	
SB3	HEAD 4	19			
SB3	HEAD 6	19			
SB3	HEAD 23	15			
CB1	SB4				344
SB4	HEAD 2	53			
SB4	HEAD 3	42			
SB4	HEAD 5	65			
SB4	HEAD 24	15			
CB1	SB5			316	
SB5	HEAD11	19			
SB5	HEAD 17		19		
SB5	HEAD 25	15			
CB1	SB6				239
SB6	HEAD 15	46			
SB6	HEAD 16	35			
SB6	HEAD 18		57		
SB6	HEAD 26	15			
CB1	SB7			170	
SB7	HEAD 9	19			
SB7	HEAD 19	15			
CB1	SB8				48
SB8	HEAD 7	55			
SB8	HEAD 8	44			
SB8	HEAD 10	65			
SB8	HEAD 20	15			
	*** TOTALS	1019	76	940	631

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

FROM	TO	655.0515 ELETRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	71
SB1	SB2	125
SB2	SB3	111
SB3	SB4	155
SB4	SB5	118
SB5	SB6	113
SB6	SB7	103
SB7	SB8	164
SB8	CB1	48
	*** TOTAL	1008

* INCLUDE GROUNDING ROD FOR CB1, SB3, SB5, & SB7
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
INTERSECTION OF W WISCONSIN AVE & N 35TH ST

BASE NO.	656.0200.002 ELETRICAL SERVICE METER BREAKER PEDESTAL L.S.
CB1	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

TRAFFIC SIGNAL EVP DETECTOR CABLE
TYPE UF CABLE 2 CONDUCTOR

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.004 TYPE UF CABLE 2 CONDUCTOR NO. 14 L.F.
CB1	SB8 (HEAD A)	93	93
CB1	SB4 (HEAD B)	452	452
CB1	SB6 (HEAD C)	279	279
CB1	SB2 (HEAD D)	208	208
***TOTAL		1032	1032

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 35TH STREET
PAGE 2 OF 5

3

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT
POLES TYPE 10 SPECIAL
MONOTUBE ARMS 35-FT
MONOTUBE ARMS 40-FT

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	SPV.0060.249 POLES TYPE 13 SPECIAL EACH	SPV.0060.261 MONOTUBE ARMS 35-FT EACH	SPV.0060.262 MONOTUBE ARMS 40-FT EACH
SB1	1	1			
SB2			1	1	
SB3					
SB4			1		1
SB5					
SB6			1	1	
SB7					
SB8			1		1
*** TOTALS	1	1	4	2	2

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
SIGNAL BASES SB1, SB3, AND SB7 ARE CITY OF MILWAUKEE LIGHT POLES. SEE LIGHTING PLAN.

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 35TH STREET
PAGE 3 OF 5

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL FACE 3S 12-INCH
TRAFFIC SIGNAL FACE 4S 12-INCH
PEDESTRIAN SIGNAL FACE 12-INCH
24" X 24" BLANKOUT SIGN NO TURN

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH	SPV.0060.291 24" X 24" BLANK OUT SIGN NO TURN EACH
1	SB7	1			
2	SB4	1			
3	SB4	1			
4	SB3	1			
5	SB4	1			
6	SB3	1			
7	SB8	1			
8	SB8	1			
9	SB7	1			
10	SB8	1			
11	SB5	1			
12	SB2	1			
13	SB2	1			
14	SB1	1			
15	SB6	1			
16	SB6	1			
17	SB5		1		
18	SB6		1		
19	SB7			1	
20	SB8			1	
21	SB1			1	
22	SB2			1	
23	SB3			1	
24	SB4			1	
25	SB5			1	
26	SB6			1	
27	SB1				1
28	SB2				1
	*** TOTALS	16	2	8	2

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SIGNAL MOUNTING HARDWARE INTERSECTION OF W WISCONSIN AVE & N 35TH ST

LOCATION	658.5069.002 SIGNAL MOUNTING HARDWARE L.S.
W WISCONSIN AVE & 35TH ST	1
TOTAL	1

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 35TH STREET
PAGE 4 OF 5

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
EVP PHASE SELECTOR CARD 4 CHANNEL
EVP CONFIRMATION LIGHT ASSEMBLY

LOCATION	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR EACH	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL EACH	SPV.0060.223 EVP CONFIRMATION LIGHT ASSEMBLY EACH
CB1	-	1	-
HEAD A	1	-	1
HEAD B	1	-	1
HEAD C	1	-	1
HEAD D	1	-	1
***TOTAL	4	1	4

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

ATC CONTROLLER AND CABINET INSTALLED

LOCATION	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED EACH
W WISCONSIN AVE & N 35TH ST	1
***TOTAL	1

*** ADDITIONAL QUANTITES SHOWN ELSEWHERE

VEHICULAR VIDEO DETECTION SYSTEM

LOCATION	SPV.0105.002 VEHICULAR VIDEO DETECTION SYSTEM L.S.
W WISCONSIN AVE & N 35TH ST	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB6)	ON POLE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 35TH STREET
PAGE 5 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CONCRETE BASES TYPE 1
CONCRETE BASES TYPE 10
CONCRETE BASES TYPE 10 SPECIAL
INSTALL CITY PRECAST CONTROLLER BASE

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.203 CONCRETE BASES TYPE 10 SPECIAL EACH	SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE EACH
CB1	112+36.0	77.2' LT				1
SB1	112+87.2	58.7' LT			1	
SB2	113+17.8	58.8' LT	1			
SB3	113+31.8	58.8' LT	1			
SB5	113+65.9	24.7' RT		1		
SB6	113+55.3	24.7' RT	1			
SB7	113+43.8	36.5' RT	1			
SB8	112+91.1	24.7' RT	1			
		*** TOTALS	5	1	1	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1		123
PB1	PB2		108
PB2	PB3		74
PB3	PB4		92
PB4	PB5		72
PB5	PB6		56
PB6	PB7		72
PB7	PB8		106
PB8	PB9		72
PB9	PB10		90
PB10	CB1		108
PB1	SB1		19
PB2	SB2	5	
PB2	SB3	10	
PB5	SB5		5
PB5	SB6	6	
PB6	SB7	7	
PB8	SB8	29	
	*** TOTALS	57	997

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: SIGNAL EQUIPTMENET ON STREET LIGHT POLES SHALL USE STREET LIGHTING CONDUIT

FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH

PULL BOX NO.	STATION	LOCATION	SPV.0060.303 FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH EACH
PB1	112+68.5	57.6' LT	1
PB2	113+22.6	57.5' LT	1
PB3	113+59.8	57.3' LT	1
PB4	113+61.7	12.0' LT	1
PB5	113+61.0	23.4' RT	1
PB6	113+42.8	43.1' RT	1
PB7	113+07.3	43.2' RT	1
PB8	112+61.9	23.5' RT	1
PB9	112+62.2	12.5' LT	1
PB10	112+62.1	57.5' LT	1
		*** TOTALS	10

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 32ND STREET
PAGE 1 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 7-14 AWG
CABLE TRAFFIC SIGNAL 12-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
CB1	SB1			87
SB1	HEAD 5	53		
SB1	HEAD 6	42		
SB1	HEAD 8	63		
CB1	SB2		143	
SB2	HEAD 10	19		
CB1	SB3		148	
SB3	HEAD 11	19		
CB1	SB4			196
SB4	HEAD 4	19		
SB4	HEAD 12	15		
CB1	SB5			310
SB5	HEAD 2	53		
SB5	HEAD 3	42		
CB1	SB6		311	
SB6	HEAD 13	15		
CB1	SB7			304
SB7	HEAD 9	19		
SB7	HEAD 14	15		
CB1	SB8			205
SB8	HEAD 1	19		
SB8	HEAD 7	19		
SB8	HEAD 15	15		
	*** TOTALS	427	602	1102

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

FROM	TO	655.0515 ELETRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	87
SB1	SB2	118
SB2	SB3	39
SB3	SB4	92
SB4	SB5	148
SB5	SB6	35
SB6	SB7	81
SB7	SB8	181
SB8	CB1	205
	*** TOTAL	986

* INCLUDE GROUNDING ROD FOR CB1 & SB4
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
INTERSECTION OF W WISCONSIN AVE & N 32ND ST

BASE NO.	656.0200.03 ELETRICAL SERVICE METER BREAKER PEDESTAL L.S.
CB1	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

TRAFFIC SIGNAL EVP DETECTOR CABLE
TYPE UF CABLE 2 CONDUCTOR

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.004 TYPE UF CABLE 2 CONDUCTOR NO. 14 L.F.
CB1	SB1 (HEAD A)	127	127
CB1	SB5 (HEAD B)	391	391
CB1	SB3 (HEAD C)	168	168
***TOTAL		686	686

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 32ND STREET
PAGE 2 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

3

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT
TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT
POLES TYPE 10
POLES TYPE 13 SPECIAL
MONOTUBE ARMS 30-FT
MONOTUBE ARMS 40-FT
PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	SPV.0060.246 POLES TYPE 10 EACH	SPV.0060.249 POLES TYPE 13 SPECIAL EACH	SPV.0060.260 MONOTUBE ARMS 30-FT EACH	SPV.0060.262 MONOTUBE ARMS 40-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1					1		1	
SB2	1		1					
SB3	1		1					
SB4								1
SB5				1		1		
SB6	1	1						1
SB7	1		1					
SB8	1		1					1
*** TOTALS	5	1	4	1	1	1	1	3

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
SIGNAL BASE SB4 IS A CITY OF MILWAUKEE LIGHT POLE. SEE LIGHTING PLAN.

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 32ND STREET
PAGE 3 OF 5

3

3

TRAFFIC SIGNAL FACE 3S 12-INCH
PEDESTRIAN SIGNAL FACE 12-INCH

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH
1	SB8	1	
2	SB5	1	
3	SB5	1	
4	SB4	1	
5	SB1	1	
6	SB1	1	
7	SB8	1	
8	SB1	1	
9	SB7	1	
10	SB2	1	
11	SB3	1	
12	SB4		1
13	SB6		1
14	SB7		1
15	SB8		1
	*** TOTALS	11	4

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 32ND STREET
PAGE 4 OF 5

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

SIGNAL MOUNTING HARDWARE INTERSECTION OF W WISCONSIN AVE & N 32ND ST

LOCATION	658.5069.003 SIGNAL MOUNTING HARDWARE L.S.
W WISCONSIN AVE & N 32ND ST	1
TOTAL	1

ATC CONTROLLER AND CABINET INSTALLED

LOCATION	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED EACH
W WISCONSIN AVE & N 32ND ST	1
***TOTAL	1

*** ADDITIONAL QUNATITES SHOWN ELSEWHERE

3

EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
EVP PHASE SELECTOR CARD 4 CHANNEL
EVP CONFIRMATION LIGHT ASSEMBLY

LOCATION	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR EACH	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL EACH	SPV.0060.223 EVP CONFIRMATION LIGHT ASSEMBLY EACH
CB1	-	1	-
HEAD A	1	-	1
HEAD B	1	-	1
HEAD C	1	-	1
***TOTAL	3	1	3

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

VEHICULAR VIDEO DETECTION SYSTEM

LOCATION	SPV.0105.003 VEHICULAR VIDEO DETECTION SYSTEM L.S.
W WISCONSIN AVE & N 32ND ST	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB4)	ON POLE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 32ND STREET
PAGE 5 OF 5

3

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1		93
PB1	PB2		94
PB2	PB3		72
PB3	PB4		76
PB4	PB5		90
PB5	PB6		56
PB6	PB7		92
PB7	PB8		72
PB8	PB9		72
PB9	PB10		78
PB10	CB1		18
PB1	SB1	15	
PB3	SB2		18
PB4	SB3	9	
PB5	SB4		4
PB6	SB5	6	
PB8	SB6		7
PB9	SB7	11	
PB10	SB8		10
*** TOTALS		41	852

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: SIGNAL EQUIPTMENET ON STREET LIGHT POLES SHALL USE STREET LIGHTING CONDUIT

CONCRETE BASES TYPE 1
CONCRETE BASES TYPE 10
CONCRETE BASES TYPE 10 SPECIAL
INSTALL CITY PRECAST CONTROLLER BASE

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.203 CONCRETE BASES TYPE 10 SPECIAL EACH	SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE EACH
CB1	133+46.4	42.7' RT				1
SB2	133+39.7	59.7' LT			1	
SB3	133+53.1	68.6' LT	1			
SB4	134+00.5	78.0' LT		1		
SB6	134+10.8	24.7' RT			1	
SB7	133+93.4	33.8' RT	1			
SB8	133+46.7	35.0' RT		1		
		*** TOTALS	2	2	2	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH

PULL BOX NO.	STATION	LOCATION	SPV.0060.303 FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH EACH
PB1	133+22.4	24.3' RT	1
PB2	133+22.4	22.4' LT	1
PB3	133+22.4	58.4' LT	1
PB4	133+52.9	77.2' LT	1
PB5	133+97.3	77.0' LT	1
PB6	134+16.1	57.6' LT	1
PB7	134+17.7	12.0' LT	1
PB8	134+17.7	23.7' RT	1
PB9	133+90.8	44.0' RT	1
PB10	133+52.3	43.6' RT	1
		*** TOTALS	10

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 26TH STREET
PAGE 1 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 7-14 AWG
CABLE TRAFFIC SIGNAL 12-14 AWG
CABLE TRAFFIC SIGNAL 15-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.
CB1	SB1			73	
SB1	HEAD 1	19			
SB1	HEAD 9	19			
SB1	HEAD 17	15			
CB1	SB2				191
SB2	HEAD 7	54			
SB2	HEAD 8	43			
SB2	HEAD 10	65			
SB2	HEAD 18	15			
CB1	SB3			236	
SB3	HEAD 12	19			
SB3	HEAD 14	19			
SB3	HEAD 19	15			
CB1	SB4		292		
SB4	HEAD 13	45			
CB1	SB5				260
SB5	HEAD 4	19			
SB5	HEAD 6	19			
SB5	HEAD 20	15			
SB5	HEAD21	15			
CB1	SB6				147
SB6	HEAD 2	53			
SB6	HEAD 3	42			
SB6	HEAD 5	65			
SB6	HEAD 22	15			
CB1	SB7			83	
SB7	HEAD 11	19			
SB7	HEAD 15	19			
SB7	HEAD 23	15			
CB1	SB8			43	
SB8	HEAD 16	45			
SB8	HEAD 24	15			
	*** TOTALS	684	292	435	598

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

FROM	TO	655.0515 ELETRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	73
SB1	SB2	172
SB2	SB3	105
SB3	SB4	98
SB4	SB5	78
SB5	SB6	151
SB6	SB7	94
SB7	SB8	100
SB8	CB1	43
	*** TOTAL	914

* INCLUDE GROUNDING ROD FOR CB1 & SB5
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
INTERSECTION OF W WISCONSIN AVE & N 26TH ST

BASE NO.	656.0200.004 ELETRICAL SERVICE METER BREAKER PEDESTAL L.S.
CB1	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRAFFIC SIGNAL EVP DETECTOR CABLE
TYPE UF CABLE 2 CONDUCTOR

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.004 TYPE UF CABLE 2 CONDUCTOR NO. 14 L.F.
CB1	SB2 (HEAD A)	231	231
CB1	SB6 (HEAD B)	187	187
CB2	SB8 (HEAD C)	78	78
CB1	SB4 (HEAD D)	337	337
***TOTAL		833	833

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 26TH STREET
PAGE 2 OF 5

3

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT
POLES TYPE 10
POLES TYPE 13 SPECIAL
MONOTUBE ARMS 20-FT
MONOTUBE ARMS 40-FT
PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	SPV.0060.246 POLES TYPE 10 EACH	SPV.0060.249 POLES TYPE 13 SPECIAL EACH	SPV.0060.258 MONOTUBE ARMS 20-FT EACH	SPV.0060.262 MONOTUBE ARMS 40-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1							1
SB2				1		1	1
SB3	1	1					
SB4			1		1		
SB5							1
SB6				1		1	1
SB7	1	1					
SB8			1		1		
*** TOTALS	2	2	2	2	2	2	4

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
SIGNAL BASES SB1 AND SB5 ARE CITY OF MILWAUKEE LIGHT POLES. SEE LIGHTING PLAN.

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 26TH STREET
PAGE 3 OF 5

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

3

TRAFFIC SIGNAL FACE 3S 12-INCH
PEDESTRIAN SIGNAL FACE 12-INCH

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH
1	SB1	1	
2	SB6	1	
3	SB6	1	
4	SB5	1	
5	SB6	1	
6	SB5	1	
7	SB2	1	
8	SB2	1	
9	SB1	1	
10	SB2	1	
11	SB7	1	
12	SB3	1	
13	SB4	1	
14	SB3	1	
15	SB7	1	
16	SB8	1	
17	SB1		1
18	SB2		1
19	SB3		1
20	SB5		1
21	SB5		1
22	SB6		1
23	SB7		1
24	SB8		1
*** TOTALS		16	8

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 26TH STREET
PAGE 4 OF 5

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

SIGNAL MOUNTING HARDWARE INTERSECTION OF W WISCONSIN AVE & N 26TH ST

LOCATION	658.5069.004 SIGNAL MOUNTING HARDWARE L.S.
W WISCONSIN AVE & N 26TH ST	1
TOTAL	1

ATC CONTROLLER AND CABINET INSTALLED

LOCATION	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED EACH
W WISCONSIN AVE & N 26TH ST	1
***TOTAL	1

***ADDITIONAL QUNATITES SHOWN ELSEWHERE

3

EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
EVP PHASE SELECTOR CARD 4 CHANNEL
EVP CONFIRMATION LIGHT ASSEMBLY

LOCATION	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR EACH	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL EACH	SPV.0060.223 EVP CONFIRMATION LIGHT ASSEMBLY EACH
CB1	-	1	-
HEAD A	1	-	1
HEAD B	1	-	1
HEAD C	1	-	1
HEAD D	1	-	1
***TOTAL	4	1	4

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

VEHICULAR VIDEO DETECTION SYSTEM

LOCATION	SPV.0105.004 VEHICULAR VIDEO DETECTION SYSTEM L.S.
W WISCONSIN AVE & N 26TH ST	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB8)	ON POLE
V2 (SB4)	ON POLE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 26TH STREET
PAGE 5 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1		93
PB1	PB2		92
PB2	PB3		72
PB3	PB4		74
PB4	PB5		80
PB5	PB6		68
PB6	PB7		90
PB7	PB8		72
PB8	PB9		72
PB9	PB10		80
PB10	CB1		30
PB3	SB2		11
PB4	SB3	9	
PB5	SB4		7
PB8	SB6		7
PB9	SB7	10	
PB10	SB8		13
	*** TOTALS	19	861

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: SIGNAL EQUIPTMENET ON STREET LIGHT POLES SHALL USE STREET LIGHTING CONDUIT

CONCRETE BASES TYPE 1
CONCRETE BASES TYPE 10
CONCRETE BASES TYPE 10 SPECIAL
INSTALL CITY PRECAST CONTROLLER BASE

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	SPV.0060.203 CONCRETE BASES TYPE 10 SPECIAL EACH	SPV.0060.200 INSTALL CITY PRECAST CONTROLLER BASE EACH
CB1	142+58.8	50.4' RT				1
SB2	142+54.9	58.7' LT			1	
SB3	142+67.2	73.9' LT	1			
SB4	143+08.8	75.6' LT		1		
SB6	143+21.3	24.7' RT			1	
SB7	143+08.6	43.2' RT	1			
SB8	142+59.8	41.2' RT		1		
		*** TOTALS	2	2	2	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH

PULL BOX NO.	STATION	LOCATION	SPV.0060.303 FIBERGLASS/POLYMER CONRETE PULL BOXES 17-INCH x 30-INCH x 24-INCH EACH
PB1	142+43.9	23.4' RT	1
PB2	142+43.9	22.0' LT	1
PB3	142+43.9	57.7' LT	1
PB4	142+68.2	82.6' LT	1
PB5	143+08.4	82.6' LT	1
PB6	143+27.8	57.1' LT	1
PB7	143+28.0	12.1' LT	1
PB8	143+28.0	23.7' RT	1
PB9	143+07.7	50.1' RT	1
PB10	142+68.5	50.1' RT	1
		*** TOTALS	10

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 24TH STREET
PAGE 1 OF 5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 12-14 AWG
CABLE TRAFFIC SIGNAL 15-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.
CB1	SB1			68
SB1	HEAD 1	19		
SB1	HEAD 9	19		
SB1	HEAD 17	15		
CB1	SB2			183
SB2	HEAD 7	54		
SB2	HEAD 8	43		
SB2	HEAD 10	65		
SB2	HEAD 18	15		
CB1	SB3		234	
SB3	HEAD 12	19		
SB3	HEAD 14	19		
SB3	HEAD 19	15		
CB1	SB4		288	
SB4	HEAD 13	45		
SB4	HEAD 20	15		
CB1	SB5			264
SB5	HEAD 4	19		
SB5	HEAD 6	19		
SB5	HEAD 21	15		
CB1	SB6			152
SB6	HEAD 2	53		
SB6	HEAD 3	42		
SB6	HEAD 5	65		
SB6	HEAD 22	15		
CB1	SB7		93	
SB7	HEAD 11	19		
SB7	HEAD 15	19		
sb7	HEAD 23	15		
CB1	SB8		47	
SB8	HEAD 16	47		
sb8	HEAD 24	15		
	*** TOTALS	671	662	667

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

FROM	TO	655.0515 ELETRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	68
SB1	SB2	159
SB2	SB3	97
SB3	SB4	96
SB4	SB5	87
SB5	SB6	150
SB6	SB7	93
SB7	SB8	100
SB8	CB1	47
	*** TOTAL	897

* INCLUDE GROUNDING ROD FOR CB1, SB1, & SB5
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
INTERSECTION OF W WISCONSIN AVE & N 24TH ST

BASE NO.	656.0200.005 ELETRICAL SERVICE METER BREAKER PEDESTAL L.S.
CB1	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

TRAFFIC SIGNAL EVP DETECTOR CABLE
TYPE UF CABLE 2 CONDUCTOR

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.	SPV.0090.004 TYPE UF CABLE 2 CONDUCTOR NO. 14 L.F.
CB1	SB2 (HEAD A)	223	223
CB1	SB6 (HEAD B)	192	192
***TOTAL		415	415

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 24TH STREET
PAGE 2 OF 5

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 390	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

3

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT
POLES TYPE 10
POLES TYPE 13 SPECIAL
MONOTUBE ARMS 20-FT
MONOTUBE ARMS 25-FT
MONOTUBE ARMS 40-FT
PEDESTRIAN PUSH BUTTONS

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	SPV.0060.246 POLES TYPE 10 EACH	SPV.0060.249 POLES TYPE 13 SPECIAL EACH	SPV.0060.258 MONOTUBE ARMS 20-FT EACH	SPV.0060.259 MONOTUBE ARMS 25-FT EACH	SPV.0060.262 MONOTUBE ARMS 40-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1								1
SB2				1			1	1
SB3	1	1						
SB4			1		1			
SB5								1
SB6				1			1	1
SB7	1	1						
SB8			1			1		
*** TOTALS	2	2	2	2	1	1	2	4

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE
SIGNAL BASES SB1 AND SB5 ARE CITY OF MILWAUKEE LIGHT POLES. SEE LIGHTING PLAN.

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 24TH STREET
PAGE 3 OF 5

3

TRAFFIC SIGNAL FACE 3S 12-INCH
PEDESTRIAN SIGNAL FACE 12-INCH

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH
1	SB1	1	
2	SB6	1	
3	SB6	1	
4	SB5	1	
5	SB6	1	
6	SB5	1	
7	SB2	1	
8	SB2	1	
9	SB1	1	
10	SB2	1	
11	SB7	1	
12	SB3	1	
13	SB4	1	
14	SB3	1	
15	SB7	1	
16	SB8	1	
17	SB1		1
18	SB2		1
19	SB3		1
20	SB4		1
21	SB5		1
22	SB6		1
23	SB7		1
24	SB8		1
	*** TOTALS	16	8

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 24TH STREET
PAGE 4 OF 5

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

SIGNAL MOUNTING HARDWARE INTERSECTION OF W WISCONSIN AVE & N 24TH ST

LOCATION	658.5069.05 SIGNAL MOUNTING HARDWARE L.S.
W WISCONSIN AVE & N 24TH ST	1
TOTAL	1

ATC CONTROLLER AND CABINET INSTALLED

LOCATION	SPV.0060.205 ATC CONTROLLER AND CABINET INSTALLED EACH
W WISCONSIN AVE & N 24TH ST	1
***TOTAL	1

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

3

EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR
EVP PHASE SELECTOR CARD 4 CHANNEL
EVP CONFIRMATION LIGHT ASSEMBLY

LOCATION	SPV.0060.218 EVP 1 CHANNEL 1 DIRECTION INFRARED DETECTOR EACH	SPV.0060.221 EVP PHASE SELECTOR CARD 4 CHANNEL EACH	SPV.0060.223 EVP CONFIRMATION LIGHT ASSEMBLY EACH
CB1	-	1	-
HEAD A	1	-	1
HEAD B	1	-	1
***TOTAL	2	1	2

***ADDITIONAL QUANTITES SHOWN ELSEWHERE

VEHICULAR VIDEO DETECTION SYSTEM

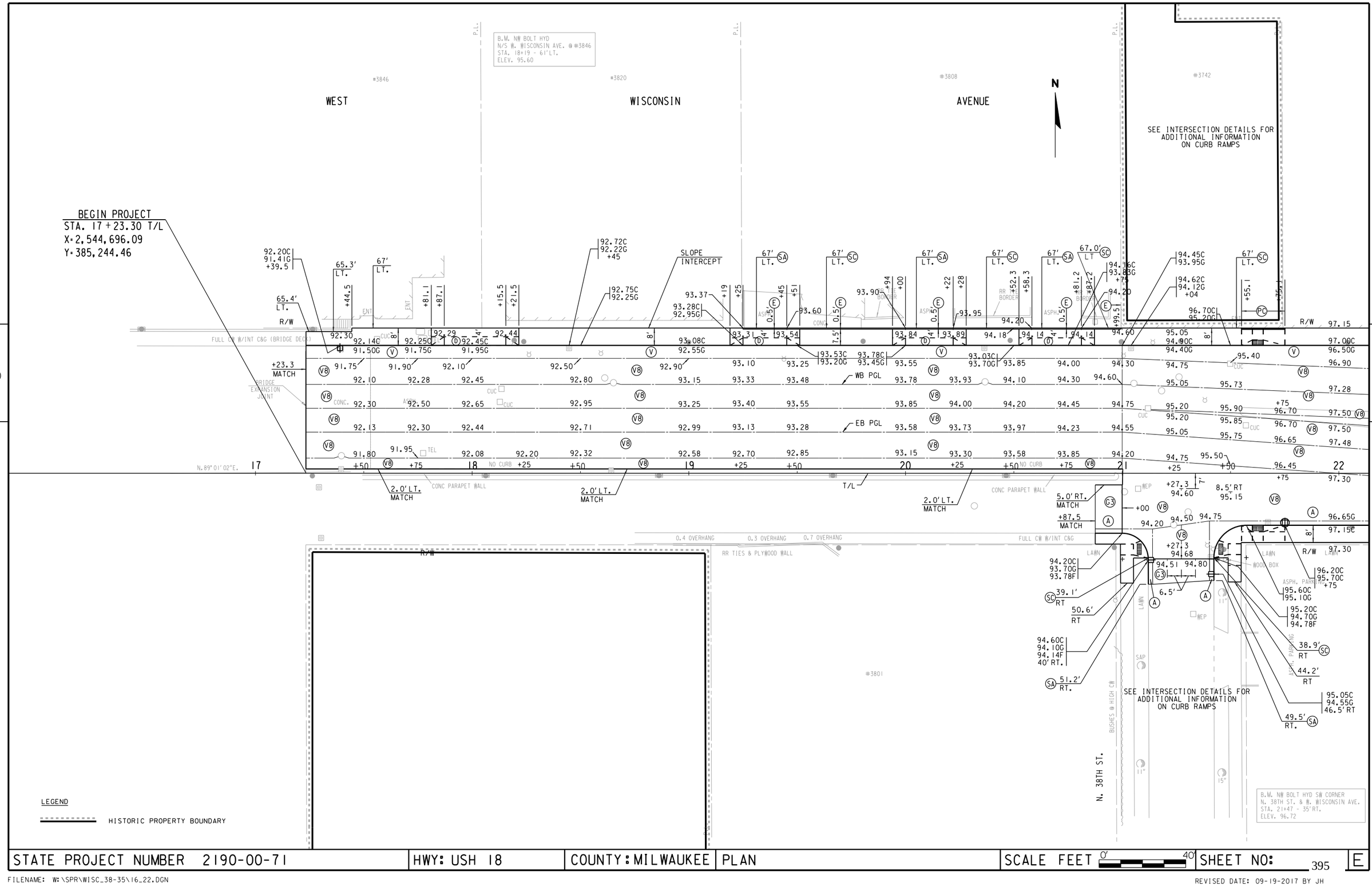
LOCATION	SPV.0105.005 VEHICULAR VIDEO DETECTION SYSTEM L.S.
W WISCONSIN AVE & N 24TH ST	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB8)	ON POLE
V2 (SB4)	ON POLE

TRAFFIC SIGNAL QUANTITES
W. WISCONSIN AVENUE & N. 24TH STREET
PAGE 5 OF 5

W. WISCONSIN AVE - N. 38TH ST. TO N. 20TH ST.

- (PC) CONST. PED. CURB
- (A) CONST. CONC. CURB & GUTTER 31-INCH
- (AH) CONST. CONC. CURB & GUTTER 31-INCH (HIGH SIDE)
- (C) CONST. CONC. CURB & GUTTER 19-INCH
- (CH) CONST. CONC. CURB & GUTTER 19-INCH (HIGH SIDE)
- (AC) CONST. CONC. CURB & GUTTER 31-INCH (COV. FLG.)
- (CHR) CONST. CONC. CURB & GUTTER 19- INCH (HIGHSIDE, REINF)
- (D) CONST. CONC. DRIVEWAY DEPRESSED - MODIFIED (7-INCH)
- (E) REMOVE & PLACE. 3" ASPH. SURFACE ON V.T. CONC. BASE
- (E2) REMOVE & PLACE 2" ASPH. ON V.T. CONC. BASE
- (F) CONST. CONC. DRIVEWAY FLARED (7-INCH)
- (G3) REMOVE ASPHALT PARTIAL DEPTH TO OBTAIN 3" MI'N. ASPH. OVERLAY
- (H) CONST. CONC. CORRUGATED MEDIAN
- (L) GRADE & PLACE 4" TOPSOIL, SOD
- (L6) GRADE & PLACE 6" TOPSOIL, SOD
- (N) CONST. 5" CONC. SIDEWALK
- (BS) CONST. 5" CONC. BUS STOP SIDEWALK
- (SC) SAWING CONCRETE
- (SA) SAWING ASPHALT
- (R) SAW FULL DEPTH AT BASE OF CONC. STEP
- (T) SAW FULL DEPTH AT OR NEAR BUILDING OR WALL
- (V8) CONST. 8" CONCRETE PAVEMENT
- (V) CONST. 8-INCH CONC. PAVEMENT WITH INTEGRAL CURB
- (X) CONST. MAINTENANCE RAMP
- (Y) CONST. SNOWPLOWABLE MEDIAN ISLAND NOSE
- (TW) REMOVE TREE WELL

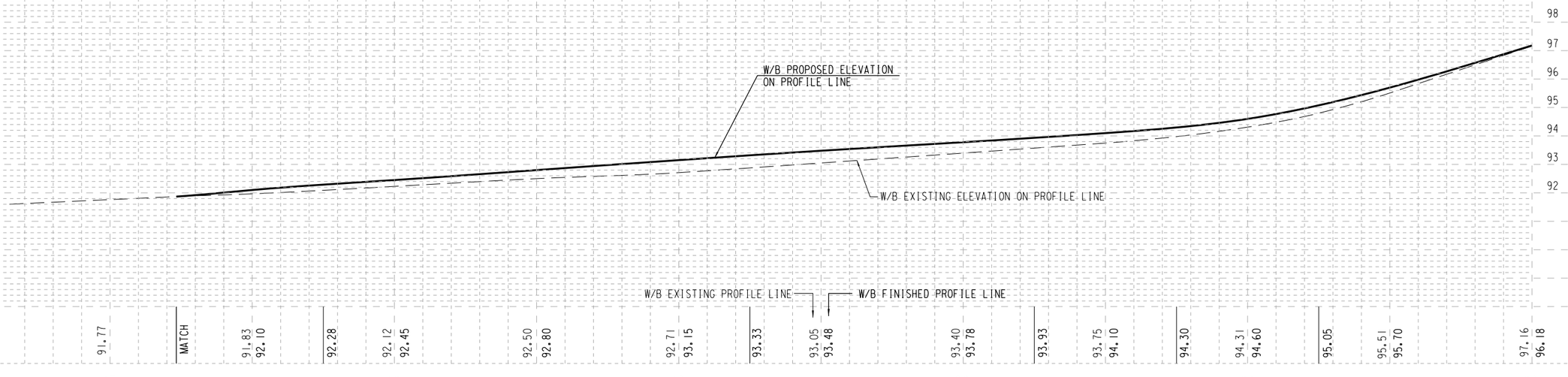


STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 395 E

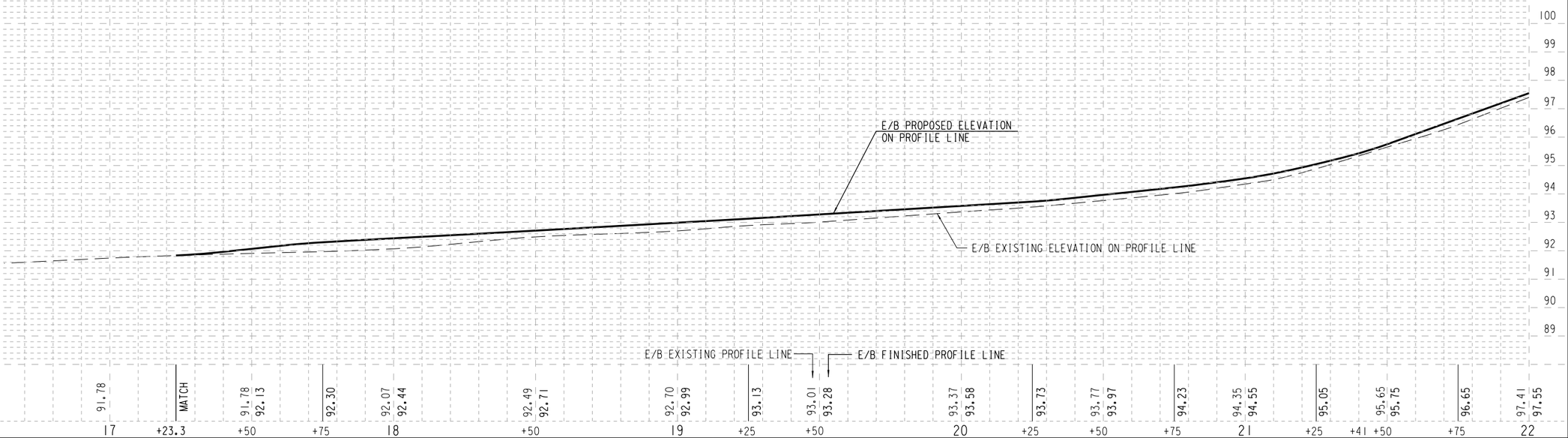
FILENAME: W:\SPR\WISC_38-35\16_22.DGN

REVISED DATE: 09-19-2017 BY JH

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PROFILE	SCALE FEET	SHEET NO: 396	E

FILENAME: W:\SPR\WISC_38-35\16_22.DGN

REVISED DATE: 09-19-2017 BY JH

WEST WISCONSIN AVENUE

N. 37TH ST.

N. 36TH ST.

N. 37TH ST. T/L

N. 36TH ST. T/L

B.W. NW BOLT HYD
N/S W. WISCONSIN AVE. @ #3716
STA. 23+18 - 61' LT.
ELEV. 102.69

#3716 TO 3732

MIDAS
#3706

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

SEE N. 37TH ST. & N. 36TH ST. EXT'D PLANS FOR GRADES NORTH OF W. WISCONSIN AVE.

MATCH POINT

0.5' BEHIND WALK

1' BEHIND WALK

67' LT.

CAUTION

DECORATIVE WALL AND STATUETTES

CONC TIRE STORE

DEAD END ALLEY

SLOPE INTERCEPT

WB PGL

EB PGL

SEE CONST. DETAILS FOR GRADE INFORMATION AND LOCATION

SEE PLAN DETAILS FOR JOINT ALIGNMENT AND LOCATIONS

ASPH. PARKING

#3601 TO 3711
WISCONSIN KITCHEN MART

B.W. NW BOLT HYD
S/S W. WISCONSIN AVE. @ #3601
STA. 24+72 - 25' RT.
ELEV. 106.93

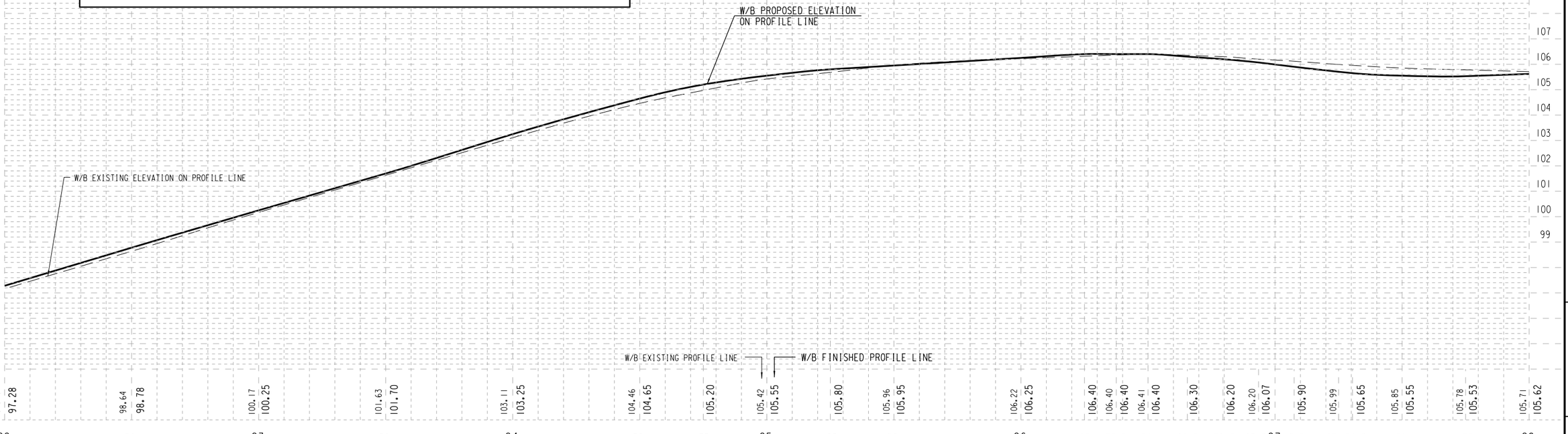
B.W. NW BOLT HYD SE CORNER
N. 36TH ST. & W. WISCONSIN AVE.
STA. 27+17 - 35' RT.
ELEV. 107.65

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 397	E

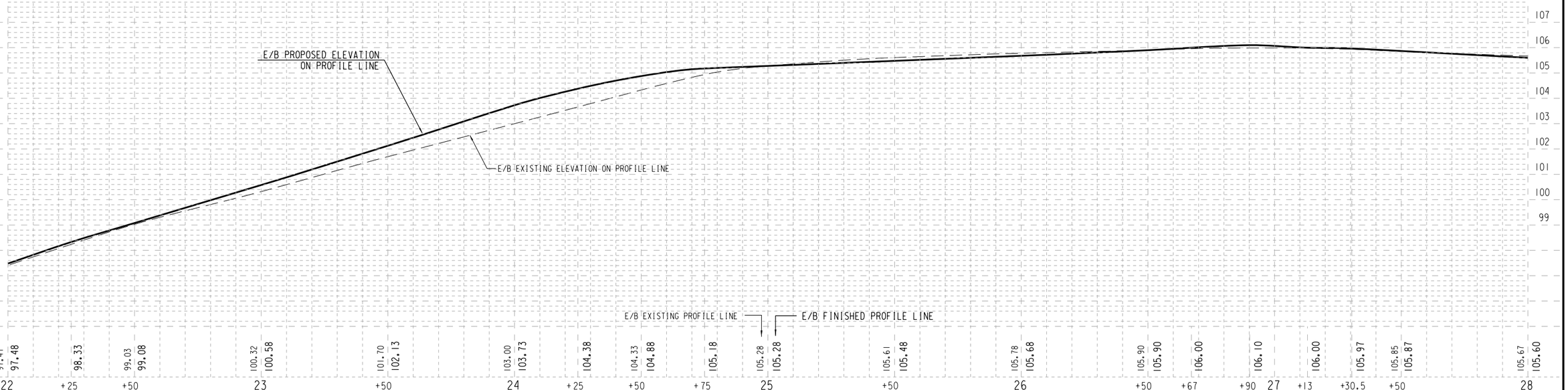
FILENAME: W:\SPR\WISC_38-35\22_28.DGN

REVISED DATE: 07-01-2017 BY PN

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PROFILE	SCALE FEET	SHEET NO: 398	E

FILENAME: W:\SPR\WISC_38-35\22_28.DGN

REVISED DATE: 07-18-2017 BY SB

WEST

WISCONSIN

AVENUE

N

PLACE LANDMARK REFERENCE MONUMENT STA. 30+33.00, T/L

APPROXIMATE EXTENT OF PETROLEUM - CONTAMINATED SOIL

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

END PROJECT 2190-00-71
STA. 32 + 63.50

BEGIN PROJECT 2190-00-70
STA.105 + 63.50

WALGREENS #3522

TROOP CAFE #3430

HOUSE #3424

RANDOLPH GRAND MANOR #3414

OFFICE BLDG. #3400

SEE CONST. DETAILS FOR GRADE INFORMATION AND LOCATION

SEE PLAN DETAILS FOR JOINT ALIGNMENT AND LOCATIONS

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

N. 35TH ST.

EB PGL

WB PGL

T/L

℄ PT. +33.0

MON.

N. 89° 01' 02" E.

N. 88° 53' 05" E.

1/4 SEC LINE

SLOPE INTERCEPT

33' RT. MATCH

63.5' RT.

63.4' RT

68.1' RT.

87' LT. MATCH

116.5' LT.

113' LT.

98' LT.

89' LT.

87' LT.

67' LT.

R/W

CONC.

ASPH. PARKING

BRICK PILLARS

CONC BASE

BRICK WALL

BRICK COLUMNS

LIGHT POLES & BUSHES

BUS SHELTER

GROUND

ASPH DWY

CONC

GRAVEL

LAWN

CURB

DRAIN

MULCH

PLANTINGS

BUSHES @ HIGH CW

FULL CW

CAUTION

STA. 32 +63.50 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 105 +63.50 - W. WISCONSIN AVE. (LOCAL STREET) (2190-00-70)

EQUATION

#3501-05-25-35 RETAIL

B.M. NW BOLT HYD SW CORNER
N. 35TH ST. & W. WISCONSIN AVE.
STA. 29+88 - 26' RT.
ELEV. 106.24

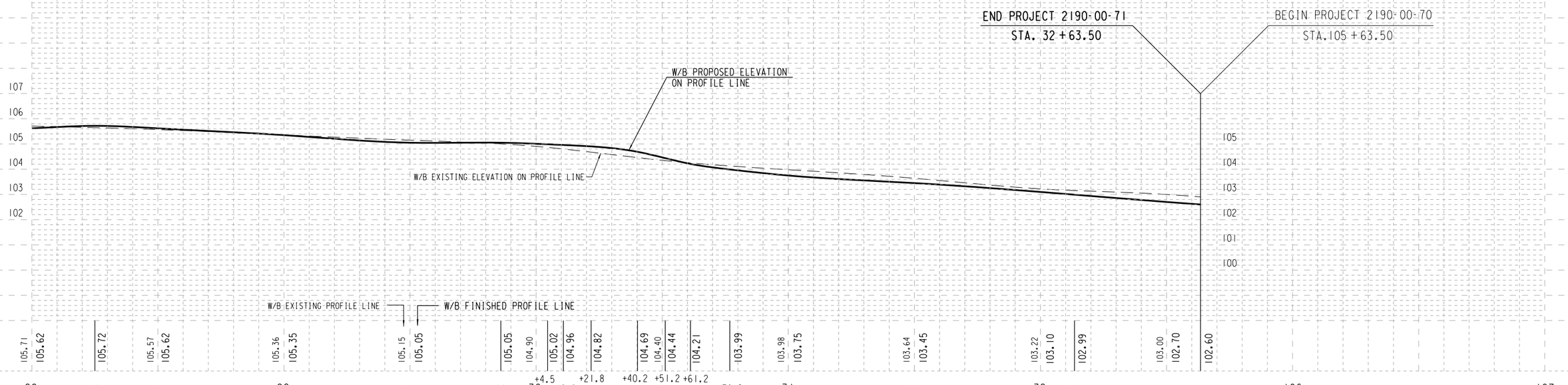
BM HYD S/S
STA. 06+22, 23' RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 399	E

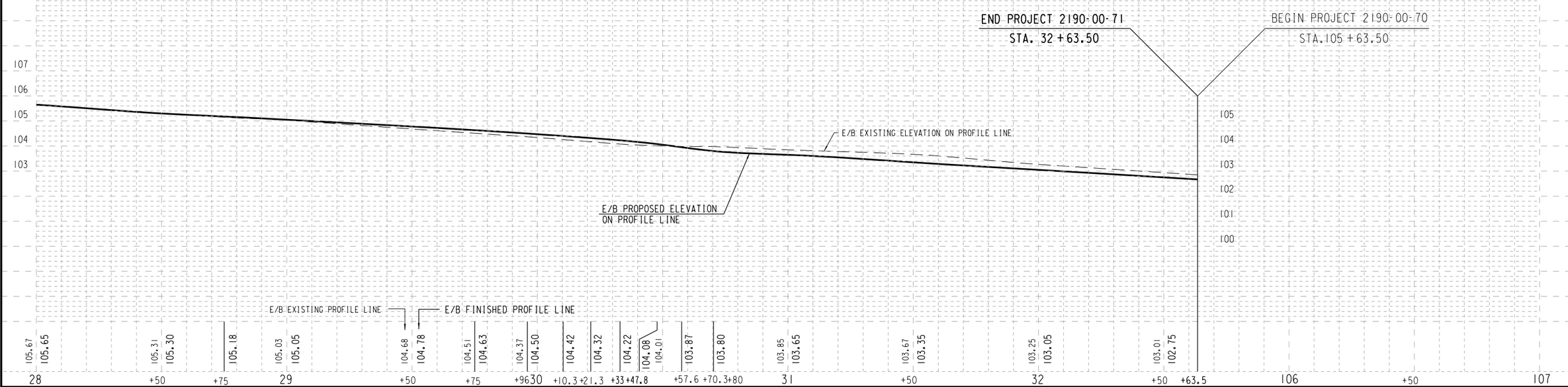
FILENAME: W:\SPR\WISC_38-35\28_34.DGN

REVISED DATE: 03-05-2017 BY PN

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PROFILE	SCALE FEET	SHEET NO: 400	E

FILENAME: W:\SPR\WISC_38-35\28_34.DGN

REVISED DATE: 12-10-2016

N

NORTH 37TH STREET

#3706 MIDAS

END CONSTRUCTION
STA. 204+73.4

CAUTION

DEAD END ALLEY

SLOPE INTERCEPT

2' LT MATCH

3' LT

N. 37TH ST. T/L

R/W

306

305

304

MATCH POINT

W. WISCONSIN AVE. T/L

WEST WISCONSIN AVENUE

N. 36TH ST. T/L

NORTH 36TH STREET

1/4 SEC LINE

CONC TIRE STOPS

DECORATIVE WALL AND STATUETTES

201 202 203 204 205

+50

105.15C 104.65G +38.5

105.40 +27

105.45 +48.4

105.57

105.65

105.70C 105.20G

105.80

105.76

105.56 +73.4

105.67 +48.4

105.45 +98.4

105.20C 104.70G +99

105.20C 104.70G

105.32C 104.82G

105.45C 104.95G

105.75C 105.25G

105.52C 105.02G

105.36C 104.86G

105.10G

105.22G

105.86C 105.36G

105.60C +48.4

105.72 +73.4

+23.4 105.44

+48.4 105.56

+73.4 105.50

+98.4 105.35

105.60

105.85

105.70

105.55

106.00

105.90

+73.4

+48.1

+16.9

+11.3

+17.3

+37.3

+43.3

+02

+08

35.5'

25'

6.5'

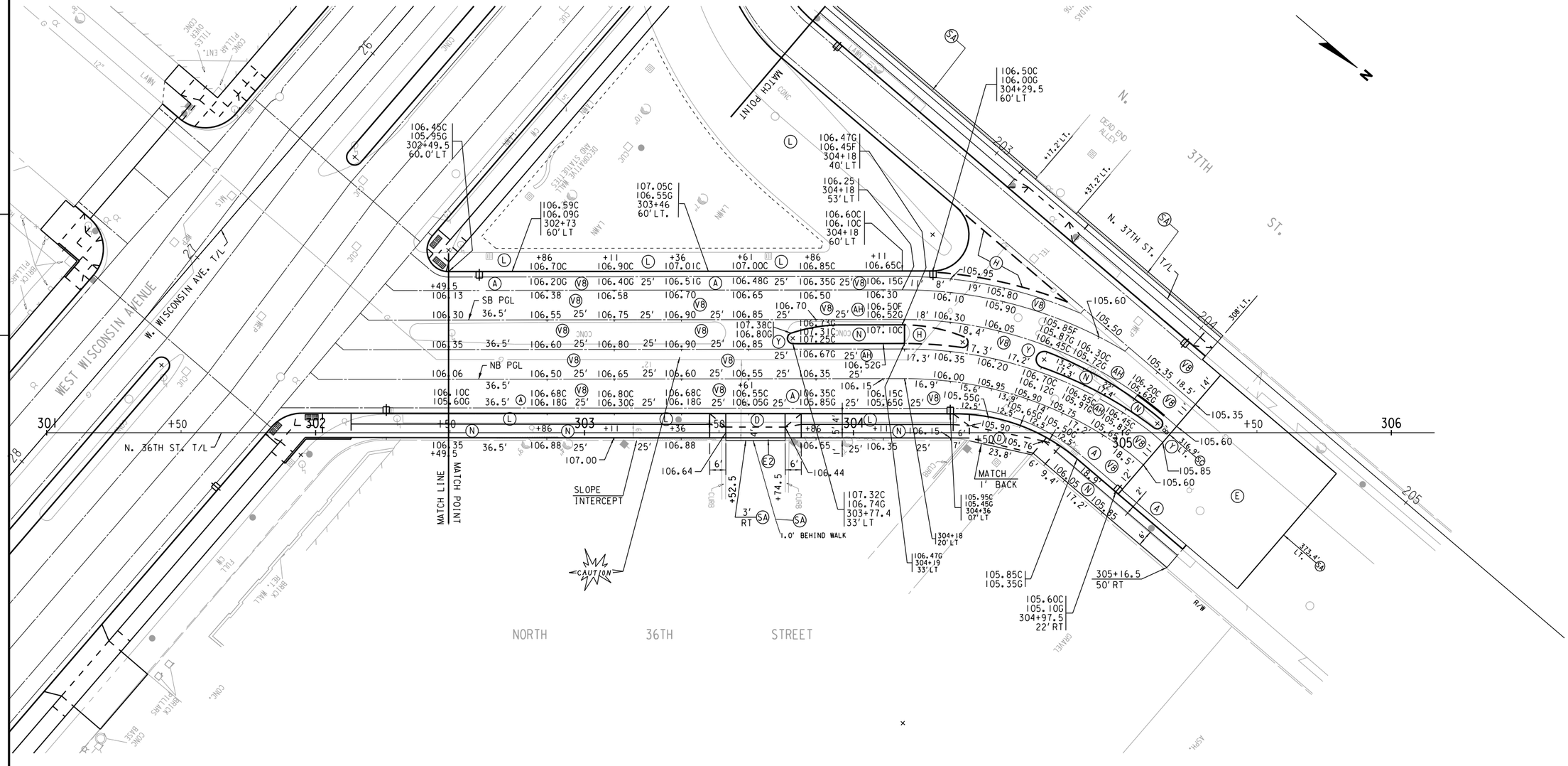
2'

6'

STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 30'	SHEET NO: 401	E

FILENAME: W:\SPR\WISC_38-35\200_206.DGN

REVISED DATE: 07-17-2017 BY PN

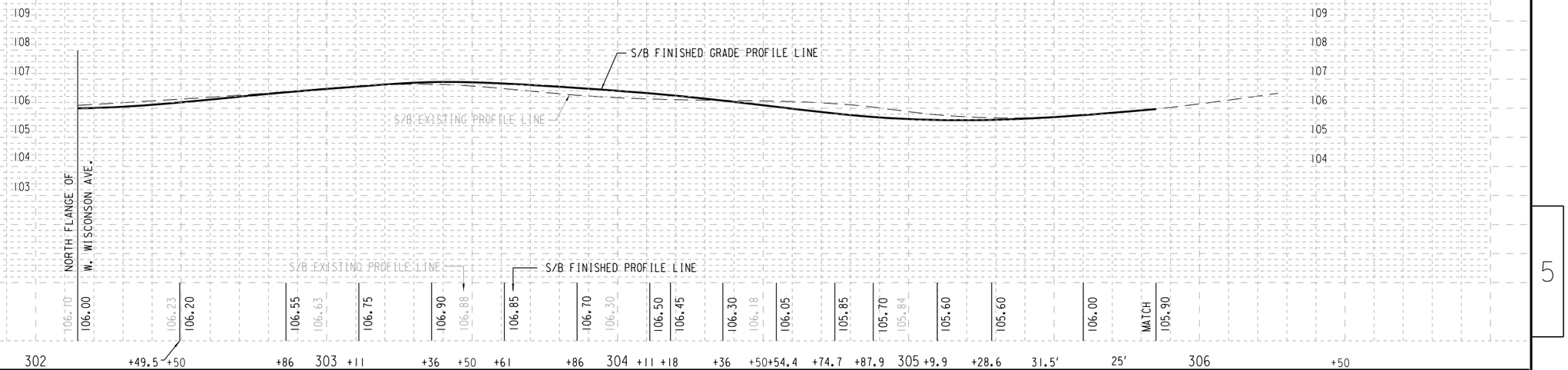


STATE PROJECT NUMBER 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 402	E

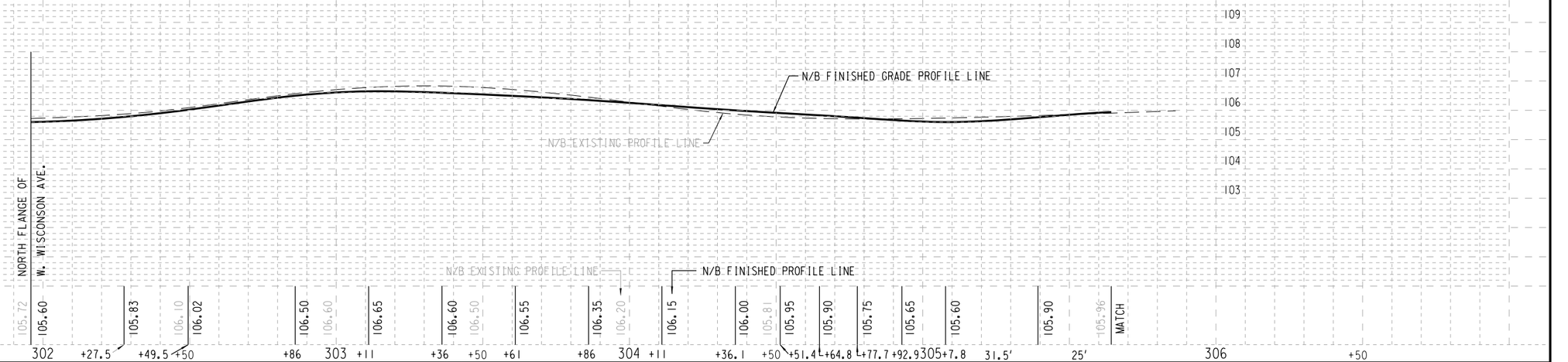
FILENAME: W:\SPR\WISC_38-35\300_306.DGN

REVISED DATE: - - BY

SOUTHBOUND N. 36TH ST.



NORTHBOUND N. 36TH ST.



STATE PROJECT NUMBER 2190-00-71	HWY: USH18	COUNTY: MILWAUKEE	PROFILE	SCALE FEET	SHEET NO: 403	E

FILENAME: W:\SPR\WISC_38-35\300_306.DGN

REVISED DATE: 07-13-2017 BY PN

END PROJECT 2190-00-71
STA. 32 + 63.50

BEGIN PROJECT 2190-00-70
STA. 105 + 63.50
Y = 385,250.90
X = 2,546,206.29

WEST AVENUE

N. 34TH ST.

WISCONSIN

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

HOUSE #3424 | RANDOLPH GRAND MANOR #3414 | OFFICE BLDG. #3400 | HOUSE (LAW OFFICE) #3316 | VACANT #3300 | APTS. #3212 | HOUSE #3212

LEGEND

HISTORIC PROPERTY BOUNDARY

N

SLOPE INTERCEPT

SIGNATURE BED NO. 1 (TYPE 2) SEE CONSTRUCTION DETAIL

WB PGL

EB PGL

STA. 32 + 63.50 - W. WISCONSIN AVE. (USH 18) (2190-00-71) =
STA. 105 + 63.50 - W. WISCONSIN AVE. (LOCAL STREET) (2190-00-70)

EQUATION

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

#3401
MARQUETTE UNIVERSITY HIGH SCHOOL

BM HYD S/S
STA. 06+22,23' RT.
(TOP OF OPERATING NUT)
ELEV. 104.77

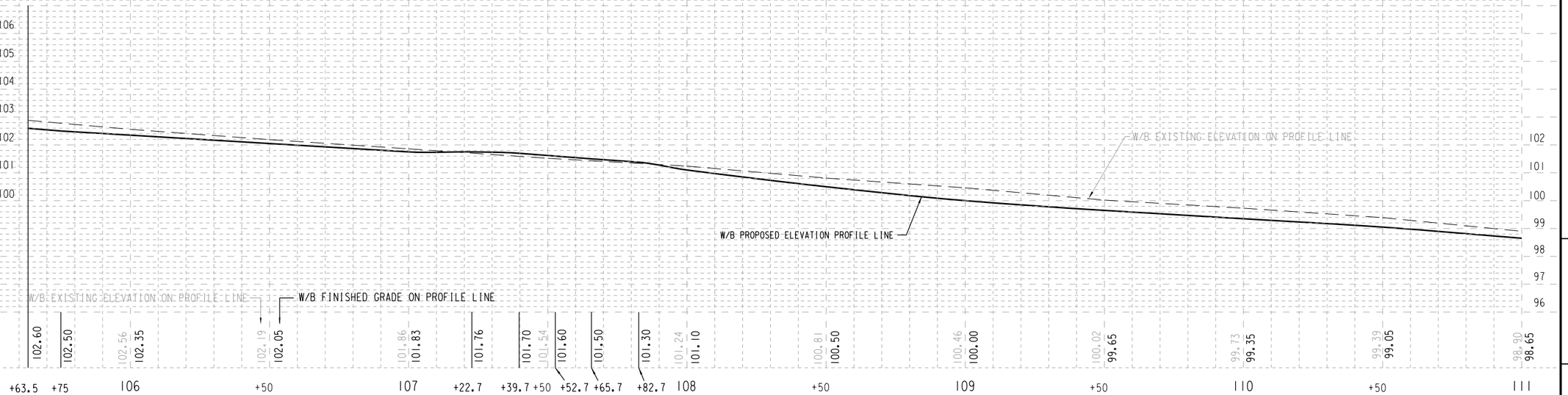
BM HYD S/S
STA. 10+00,23' RT.(NW BOLT)
ELEV. 101.60

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 404	E

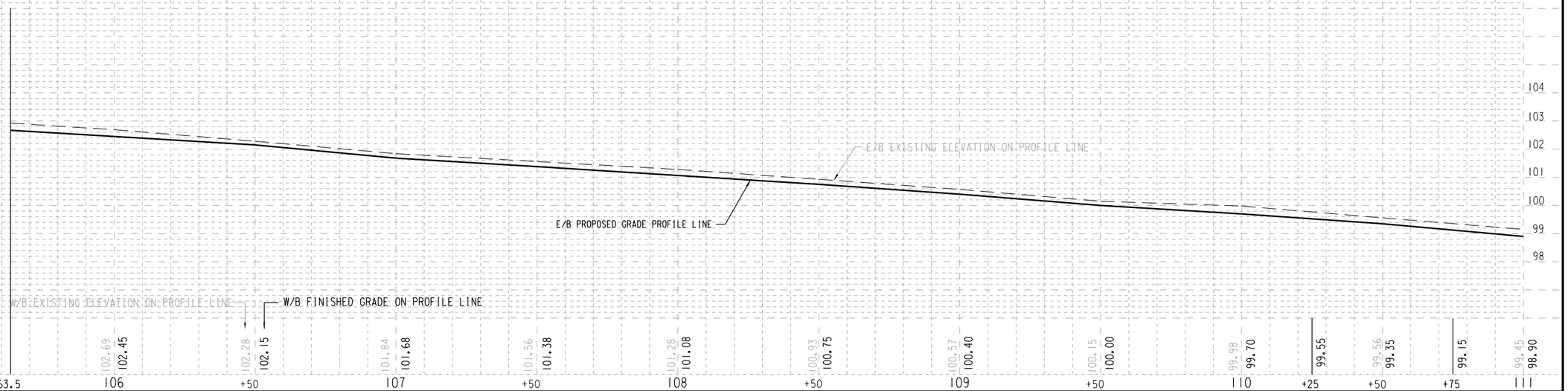
FILE NAME: W:\SPR\WISC 20-35\05-11.DGN

REVISED DATE: 07-19-2017 BY ML

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET	SHEET NO: 405	E

FILENAME: W:\SPR\WISC_20-35\05-11.DGN

REVISED DATE: 03-13-2017 BY TJK

HUDSON APTS. #3200

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

APTS. #3120-3128

AVENUE WEST APTS. #3100

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

HOUSE #3046

HOUSE #3034

WEST **N. 32ND ST.** **WISCONSIN** **N. 31ST ST.** **AVENUE**

N

FIBER OPTIC

CAUTION

SLOPE INTERCEPT

SLOPE INTERCEPT

BUS SHELTER

CONC

ASPH

MATCH

LEGEND

HISTORIC PROPERTY BOUNDARY

#3133 APTS.

#3127 HOUSE

#3121 HOUSE

#3111 HOUSE (LAW OFFICE)

BM HYD SE CORNER
N.32ND ST. & W. WISCONSIN AVE.
STA. 113+60.25' RT.(NW BOLT)
ELEV. 98.71

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

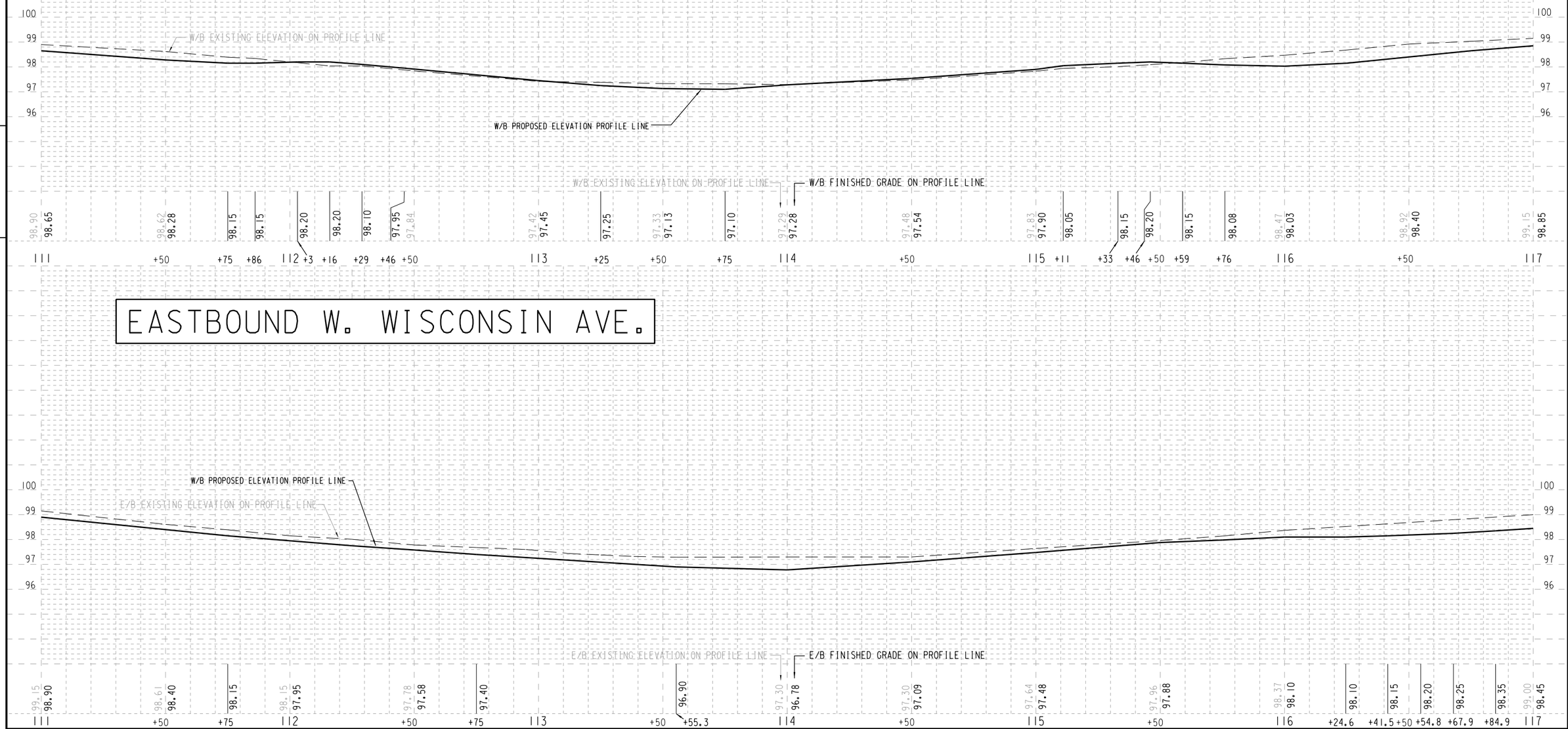
BM HYD SE C
N.31ST ST.
STA. 116+85
(TOP OF OPE
ELEV. 100.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 406 E

FILE NAME: W:\SPR\WISC 20-35 11-17.DGN

REVISED DATE: 2-21-2017 BY TJK

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET	SHEET NO: 407	E

FILENAME: W:\SPR\WISC_20-35\11-17.DGN

REVISED DATE: 3-8-2017 BY TJK

N

WEST

LUTHERAN CHURCH #3022

TRIPOLI SHRINE #3000

WISCONSIN

AVENUE

N. 29TH ST.

N. 30TH ST.

GRAND ANN APTS. #2904

APTS. #2848

#3035 APTS.

#3001 VILLAGE INN HOTEL

#2919 AVENUE TOWER APTS.

#2905 APTS.

#2929 PLAZA WEST APTS.

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

DETAIL "A"

DETAIL "B"

SEE DETAIL "A"

SEE DETAIL "B"

SLOPE INTERCEPT

MATCH

CAUTION

LEGEND

HISTORIC PROPERTY BOUNDARY

BM HYD SE CORNER
N.31ST ST. & W. WISCONSIN AVE.
STA. 116+85.23'RT.
(TOP OF OPERATING NUT)
ELEV. 100.66

BM HYD SE CORNER
N.30TH ST. & W. WISCONSIN AVE.
STA. 120+15.24'RT.(NW BOLT)
ELEV. 103.37

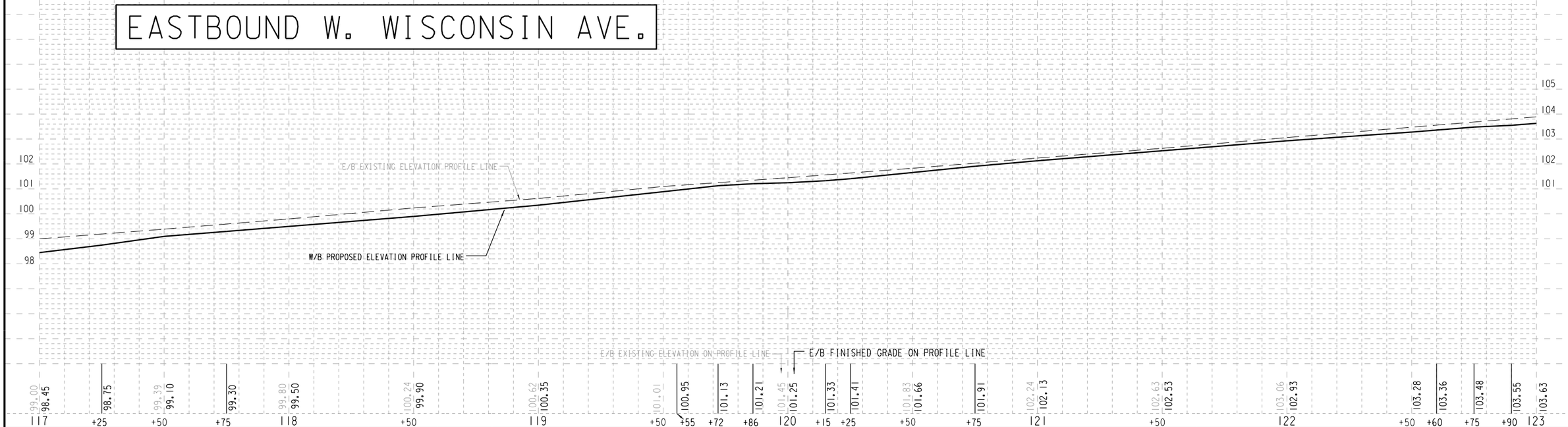
STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 408	E

FILE NAME: W:\SPR\WISC 20-35\17-23.DGN

REVISED DATE: 2-21-2017 BY IJK

WESTBOUND W. WISCONSIN AVE.

EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 409	E

FILE NAME: W:\SPR\WISC 20-35\17-23.DGN

REVISED DATE: 10-25-2016 BY TJK

DETAIL "A"

DETAIL "B"

WEST AVENUE

N. 28TH PL.

N. 28TH ST.

WISCONSIN

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

HOUSE #2838-2840

HOUSE #2830-2836

ST. PAUL'S CHURCH #2812-2820

WISCONSIN AVENUE ELEMENTARY SCHOOL #2700-2708

BM: STD #150 NW CORNER N. 27TH ST. & W. WISCONSIN AVE. 7' W. & 21' N. OF CURBS IN WATER VALVE BOX. STA. 120+76, 32' LT. ELEV = 109.836

SEE DETAIL "A"

SEE DETAIL "B"

WB PGL

EB PGL

SLOPE INTERCEPT

END CONSTRUCTION STA. 127+33.0 T/L

CONC. PAVEMENT "2013"

BRICK PILLARS & IRON FENCE

#2801 OFFICE BLDG.

#2829 OFFICE BLDG.

#2733 TRAVIS ACADEMY

#2729-2731

#2727-2725 BAR

#2719 BILLIARDS

#2709-2711 FOR LEASE

BM HYD SE CORNER N. 29TH ST. & W. WISCONSIN AVE. STA. 123+30, 23'RT. (NW BOLT) ELEV. 105.77

BM HYD SE CORNER N. 28TH ST. & W. WISCONSIN AVE. STA. 126+40, 24'RT. (NW BOLT) ELEV. 108.84

LEGEND

HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 410	E

FILE NAME: W:\SPR\WISC 20-35\23-29.DGN

REVISED DATE: 2-21-2017 BY TJK

WESTBOUND W. WISCONSIN AVE.

EASTBOUND W. WISCONSIN AVE.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 411	E

FILE NAME: W:\SPR\WISC 20-35\23-29.DGN

REVISED DATE: 10-26-2016 BY TJK

WEST WISCONSIN AVENUE

N

BEGIN CONSTRUCTION
STA. 133+12.0 T/L

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

CITY OF MILWAUKEE #2630 | APTS. #2620-2622 | APTS. #2616 | RED CROSS #2602 | RETAIL STORES #2532 | #2524

AVE. 20+76, 32' LT.

BRICK PILLARS & IRON FENCE

BUS STOP | BUS SHELTER | MONOTUBE | LAWN | ASPH | CONC | CURB | PED CURB | R/W | SECTION LINE | MON. | 179° 51' 07"

129 | 1/4 SEC LINE | +50 | T/L | 130 | +50 | 131 | 1/4 SEC LINE | +50 | 132 | +50 | T/L | 133 | +50 | 134 | +50 | 1/4 SEC LINE | 135

CONC. PAVEMENT "2013"

SLOPE INTERCEPT

WB PGL | EB PGL

LEGEND

HISTORIC PROPERTY BOUNDARY

#2709-2711 FOR LEASE | #2701-03 MARKET | #2601-2611 | #2525 US BANK

N. 27TH ST. | N. 26TH ST.

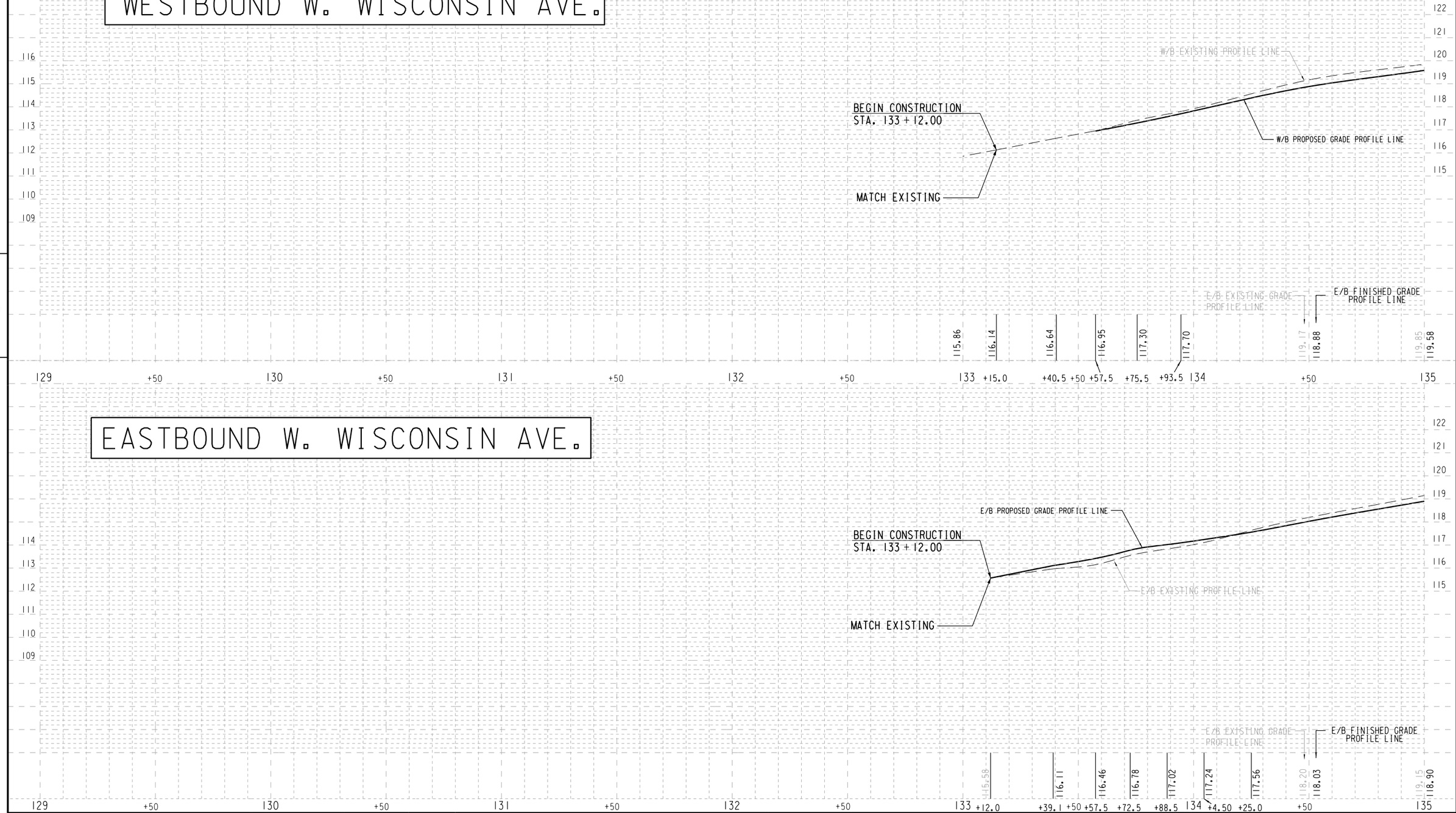
BM HYD SE CORNER
N.26TH ST. & W. WISCONSIN AVE.
STA. 133+91.36' RT.(NW BOLT)
ELEV. 117.63

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 412	E

FILE NAME: W:\SPR\WISC 20-35\29-35.DGN

REVISED DATE: 2-21-2017 BY TJK

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 413	E

FILE NAME: W:\SPR\WISC 20-35\29-35.DGN

REVISED DATE: 10-20-2016 BY MJ

WEST

WISCONSIN AVENUE

#2524-2526 APTS. #2518 ABAND. GAS STATION #2502-2506 GRAND AVENUE SCHOOL #2430

SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION ON CURB RAMPS

SIGNATURE BED NO. 2 (TYPE I) SEE CONSTRUCTION DETAIL

SLOPE INTERCEPT

CAUTION

WB PGL

EB PGL

N. 25TH ST.

*639 N. 25TH ST. METHODIST CHURCH

BM HYD SE CORNER
N.25TH ST. & W. WISCONSIN AVE.
STA. 137+73.25'RT.(NW BOLT)
ELEV. 122.57

LEGEND

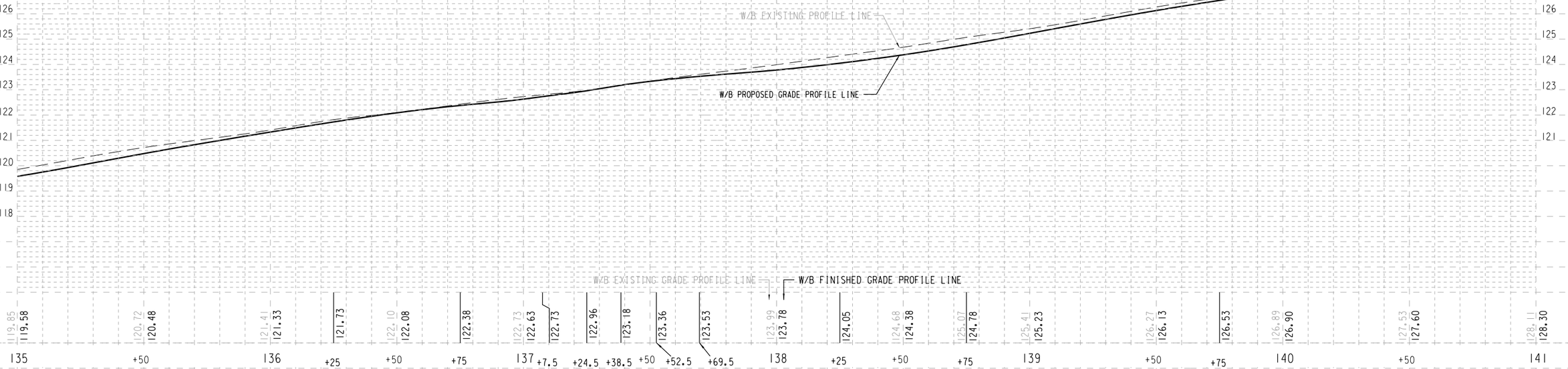
HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 414	E

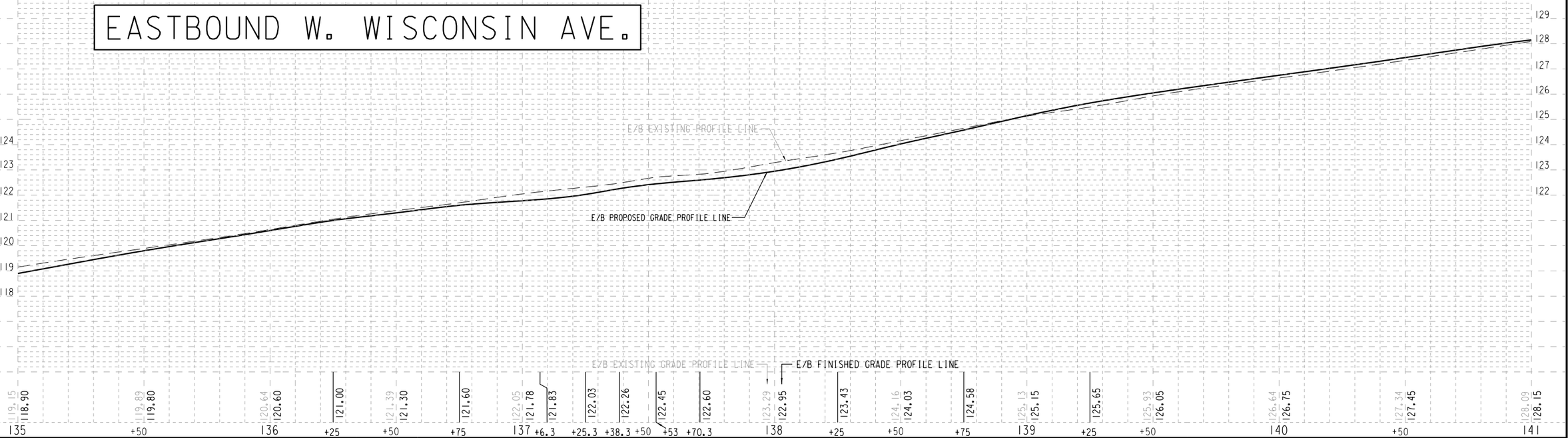
FILE NAME: W:\SPR\WISC 20-35\35-41.DGN

REVISED DATE: 2-21-2017 BY TJK

WESTBOUND W. WISCONSIN AVE.



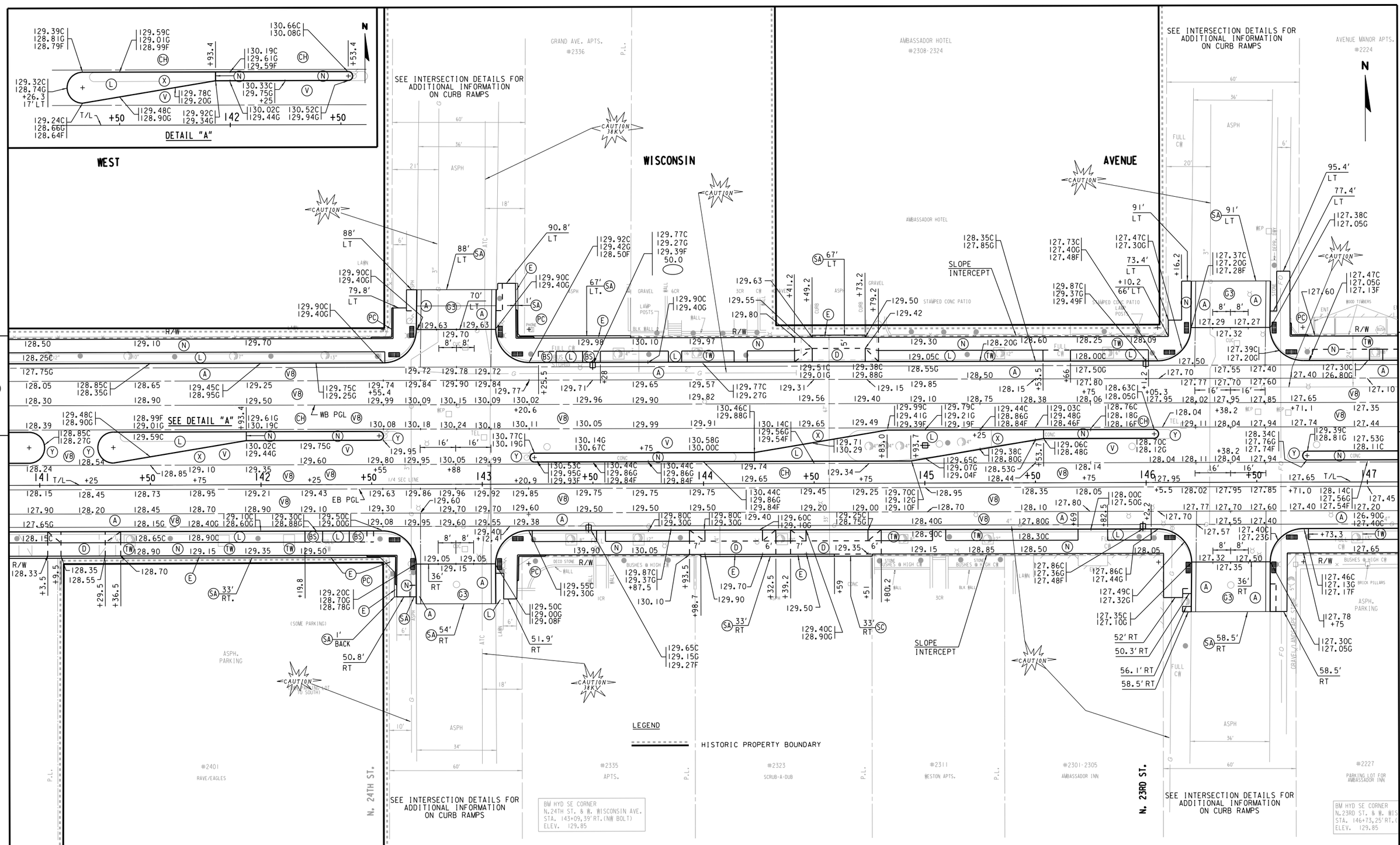
EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 415	E

FILE NAME: W:\SPR\WISC 20-35\35-41.DGN

REVISED DATE: 10-24-2016 BY MJ

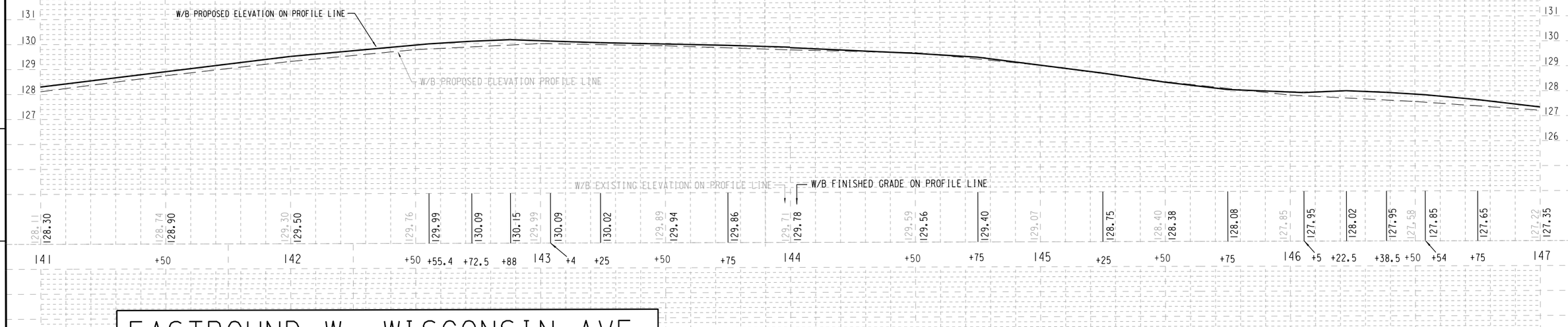


STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40	SHEET NO: 416 E

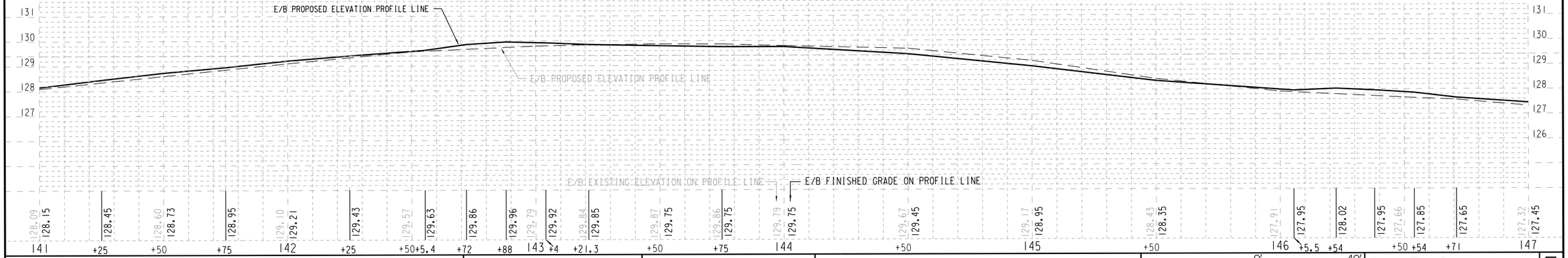
FILE NAME: W:\SPR\WISC_20-35\41-47.DGN

REVISED DATE: 2-21-2017 BY TJR

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 417	E

FILE NAME: W:\SPR\WISC 20-35\41-47.DGN

REVISED DATE: 10-24-2016 BY TJK

WEST

WISCONSIN

AVENUE

N. 22ND ST.

N. 21ST ST.

SEE CONST. DETAIL FOR ADDITIONAL INFORMATION ON CURB RAMPS

SEE CONST. DETAIL FOR ADDITIONAL INFORMATION ON CURB RAMPS

SIGNATURE BED NO. 3 (TYPE 2) SEE CONSTRUCTION DETAIL

SLOPE INTERCEPT

SLOPE INTERCEPT

WB PGL

EB PGL

AVENUE MANOR APTS. #2224

MICHAELS RESTAURANT #2220

TACO BELL #2210

BMO BANK #2120

#2227 PARKING LOT FOR AMBASSADOR INN

#2217 APTS.

#2207 PLANNED PARENTHOOD

#2133 CHURCH

#2121 VICTORY CHRISTIAN ACADEMY

#2111-2115 APTS.

#2101 APTS.

#2051 LAW FIRM

BM HYD SE CORNER N. 23RD ST. & W. WISCONSIN AVE. STA. 146+73.25'RT.(WNW BOLT) ELEV. 129.85

BM HYD S/S W. WISCONSIN AVE. STA. 149+58.25'RT.(WNW BOLT) ELEV. 125.85

LEGEND

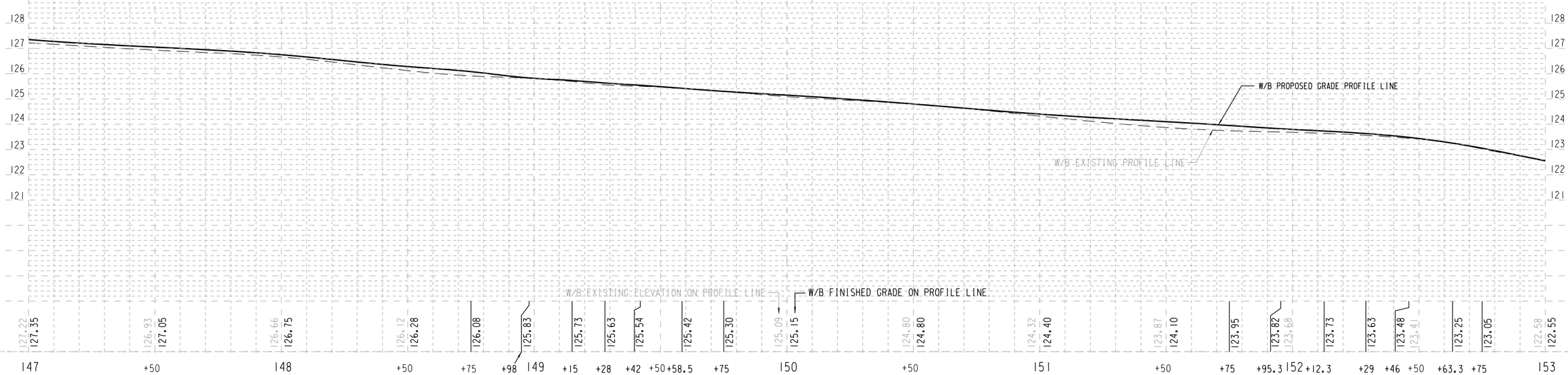
HISTORIC PROPERTY BOUNDARY

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN	SCALE FEET 0' 40'	SHEET NO: 418	E

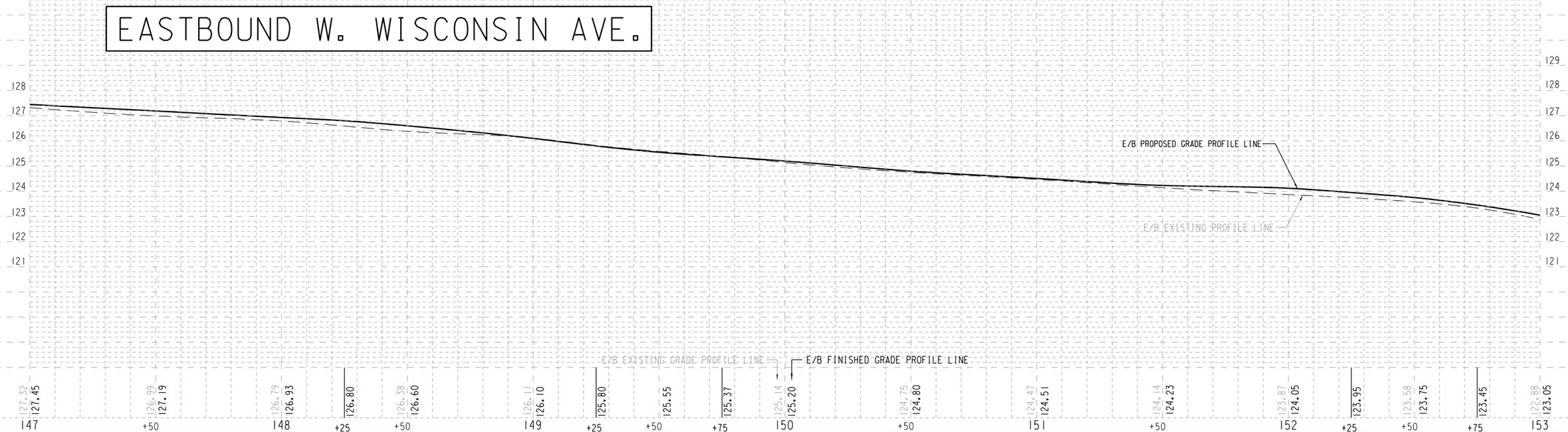
FILE NAME: W:\SPR\WISC 20-35\47-53.DGN

REVISED DATE: 2-22-2017 BY TJK

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.



STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 419	E

FILE NAME: W:\SPR\WISC 20-35\47-53.DGN

REVISED DATE: 10-18-2016 BY TJK

WEST AVENUE

WISCONSIN

BLDG. #2040

PABST MANSION #2000

P.L.

N

PLACE LANDMARK REFERENCE MONUMENT STA. 156+28.88, T/L

SEE CONST. DETAIL FOR ADDITIONAL INFORMATION ON CURB RAMPS

66' LT. (SC)

SLOPE INTERCEPT

MATCH

67' LT (SA)

END PROJECT STA.156+80.00 T/L

CAUTION

DETAIL "A"

SEE DETAIL "A"

WB PGL

EB PGL

T/L

R/W

LAWN

CONC.

ASPH.

ENT

CONC. RET. WALL

ASPH. DWY.

CONC. DWY.

CONC. PILLAR

ST LIGHT BOX FULL CW

BIKE RACK

WOODRAMP

ASPH. PARKING

FULL CW

1/4 SEC LINE

ASPH. ON CONC.

N. 20TH ST.

C.W.-℄PT.+69.5 32.0' RT.-112.37

C.W.-℄PT.+56.0 33.0' RT.-112.47

112.39C 112.14G 112.18F 37.2' RT

112.32C 112.07G 112.11F 41.0' RT

112.20C 111.70G 49' RT.

111.80C 111.30G 62' RT

75.6' RT

LEGEND

HISTORIC PROPERTY BOUNDARY

#2029-2037 MARYLAND COURTS APTS.

#2017-2023

#2009-2011

#2001 FUNERAL HOME

BM HYD S/S W. WISCONSIN AVE. STA. 152+70.25' RT.(NW BOLT) ELEV. 123.65

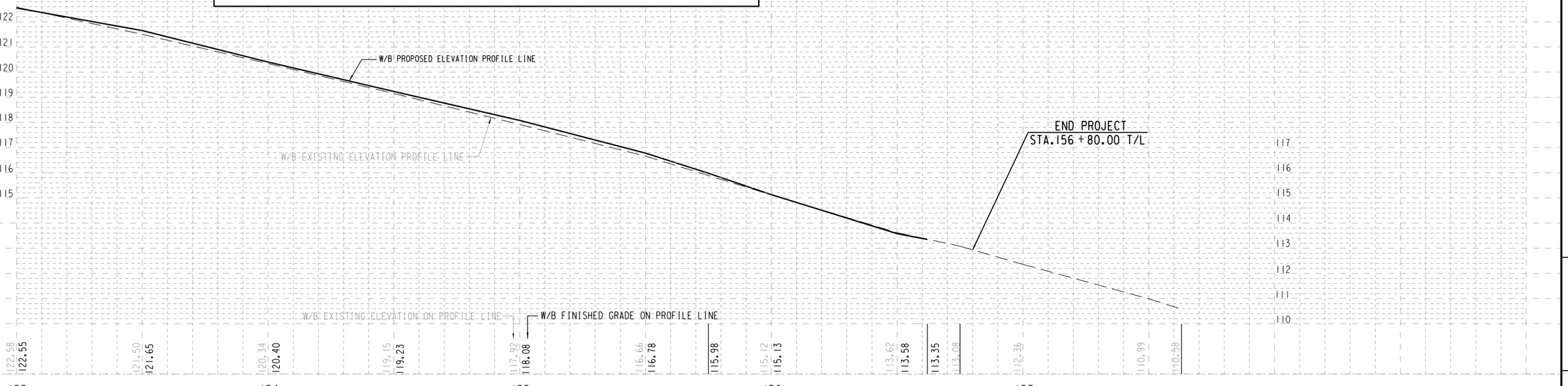
BM HYD SW CORNER N.20TH ST. & W. WISCONSIN AVE. STA. 156+08.34' RT.(NW BOLT) ELEV. 113.72

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PLAN AND PROFILE	SCALE FEET 0' 40'	SHEET NO: 420	E

FILE NAME: W:\SPR\WISC 20-35\53-57.DGN

REVISED DATE: 12-20-2016 BY SB

WESTBOUND W. WISCONSIN AVE.



EASTBOUND W. WISCONSIN AVE.

STATE PROJECT NUMBER 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	PROFILE	SCALE FEET 0' 40'	SHEET NO: 421	E

FILE NAME: W:\SPR\WISC 20-35\53-57.DGN

REVISED DATE: 10-18-2016 BY TJK

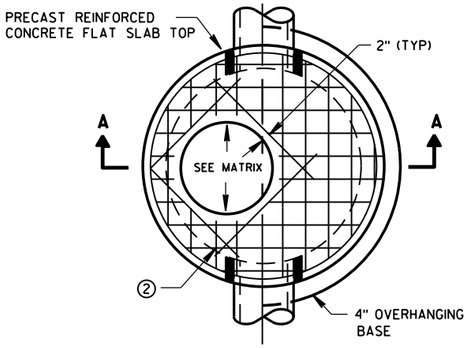
Standard Detail Drawing List

08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-10	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D18-01	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-01	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-09	CONCRETE BASE TYPE 10
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E05-06	TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 13 FT. OR 15 FT.
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08D	TYPE 13 POLE 35'-55' MONOTBE ARM
09E12-01E	GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
11B02-02	CONCRETE MEDIAN NOSE
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C15-06A	CONCRETE BASE
13C15-06B	CONCRETE BASE
13C18-05A	CONCRETE PAVEMENT JOINTING
13C18-05B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-05C	CONCRETE PAVEMENT JOINT TYPES
13C18-05D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C27-02A	DOUBLE ARROW WARNING SIGN PLACEMENT

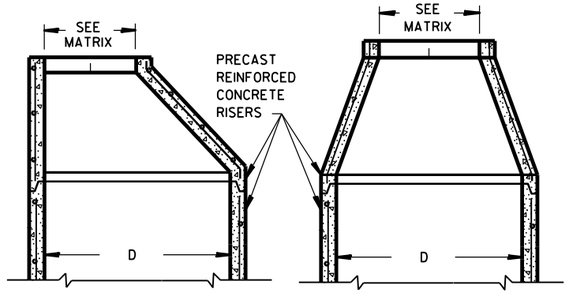
6

Standard Detail Drawing List

15C29-05A	BICYCLE LANE MARKING
15C29-05B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D11-06	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

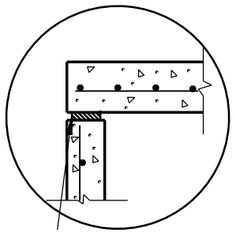


PLAN VIEW CIRCULAR OPENING

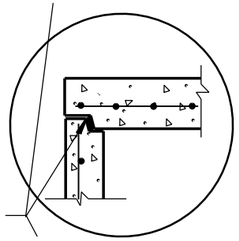


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

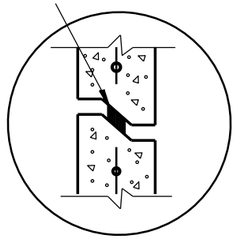


TOP WITH PLAIN END JOINT



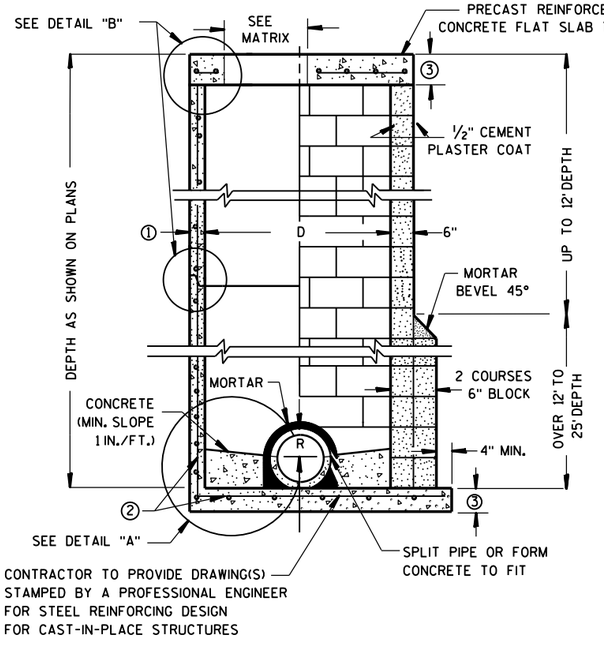
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



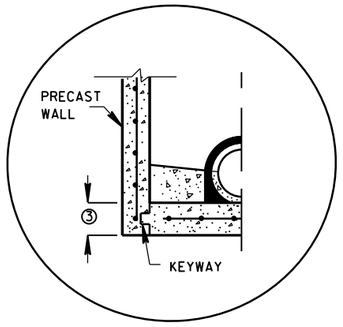
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

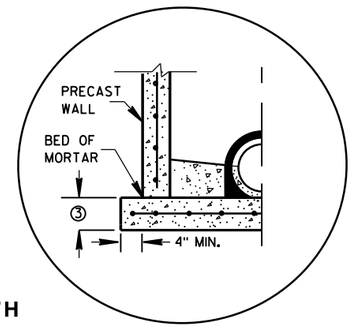


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

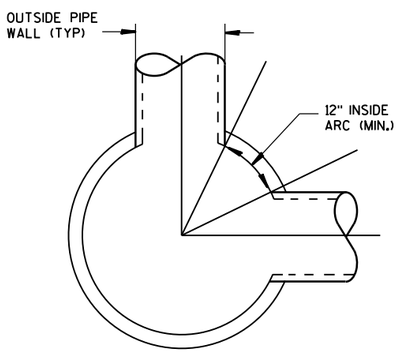


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

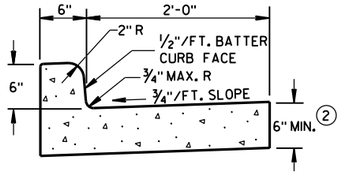
APPROVED

Sept., 2016
DATE

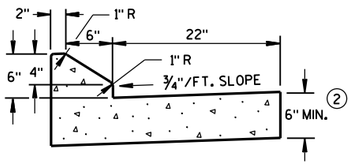
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

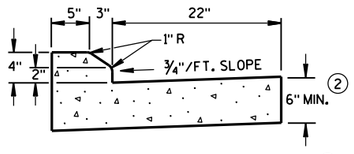
6
S.D.D. 8 B 9-2



TYPES A & D ①

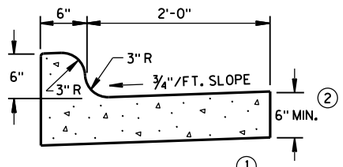


6" SLOPED CURB TYPES G & J ①

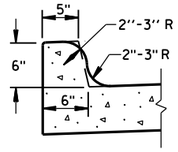


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

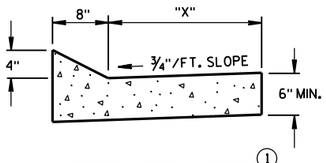


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

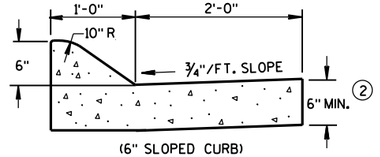
CONCRETE CURB & GUTTER 30"



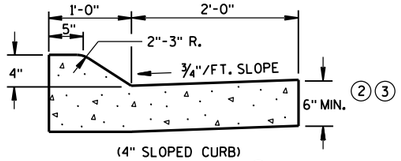
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

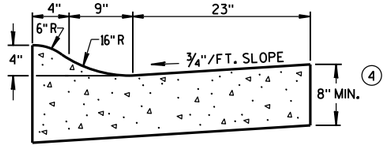


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

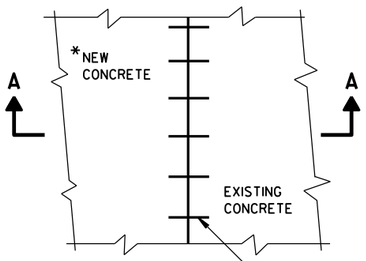
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

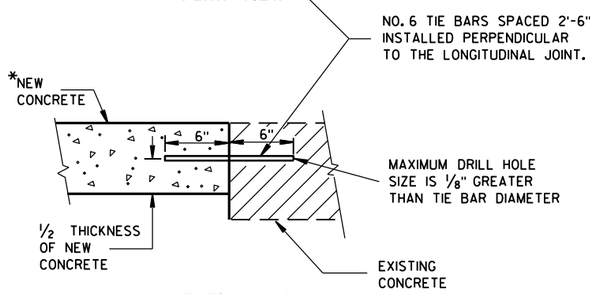
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



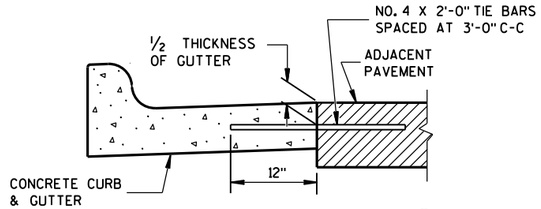
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

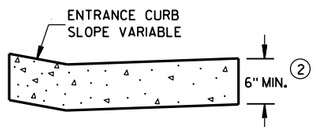


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

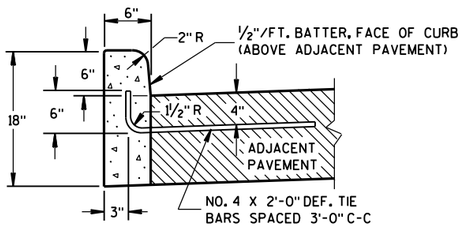


TYPICAL TIE BAR LOCATION ①

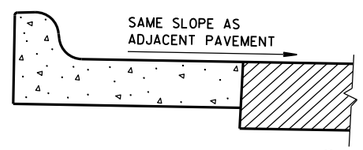


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

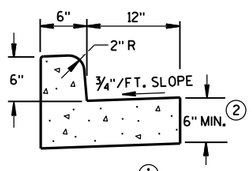


① TYPES A & D



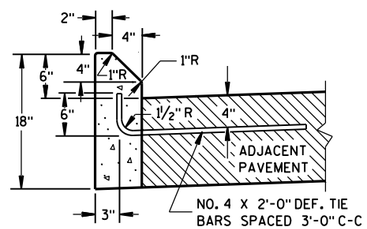
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



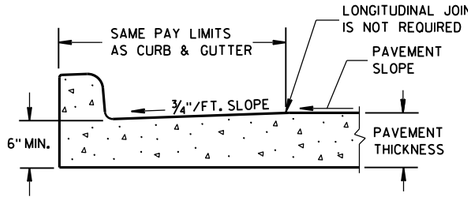
① TYPES A & D

CONCRETE CURB & GUTTER 18"

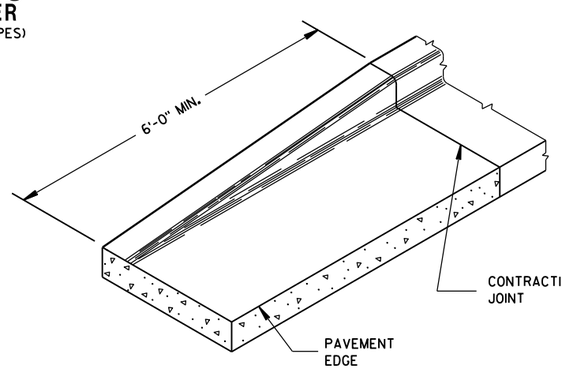


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

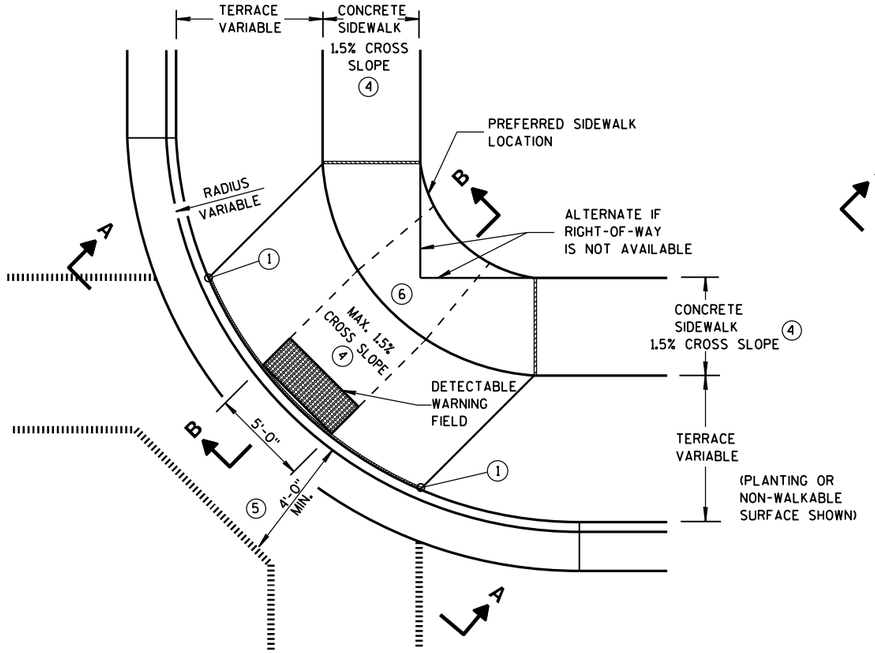
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

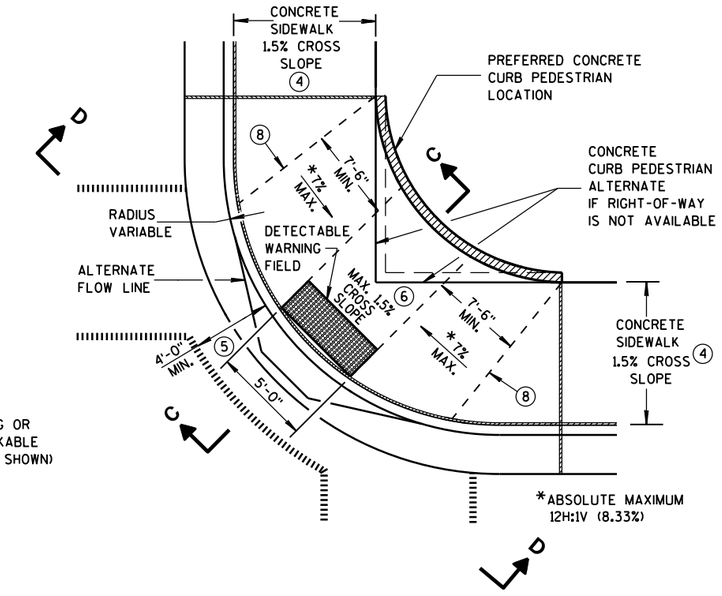
S.D.D. 8 D 1-19



PLAN VIEW

TYPE 1 RAMP

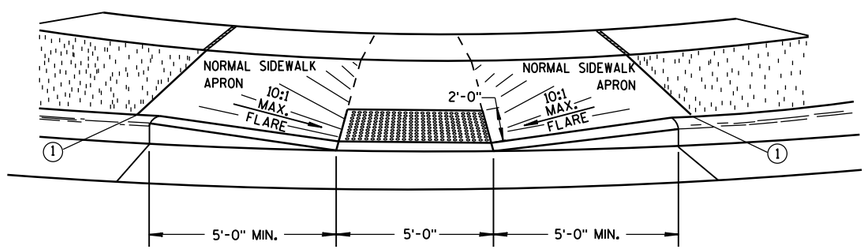
(CENTER OF CORNER RADIUS)



PLAN VIEW

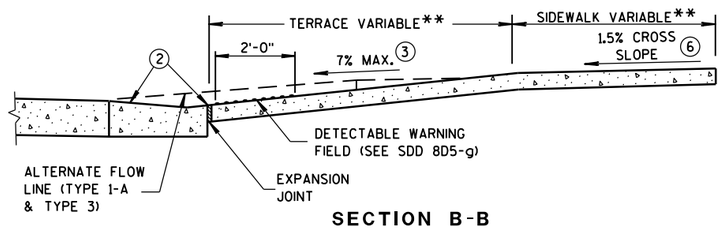
TYPE 1-A RAMP

(NO TERRACE)

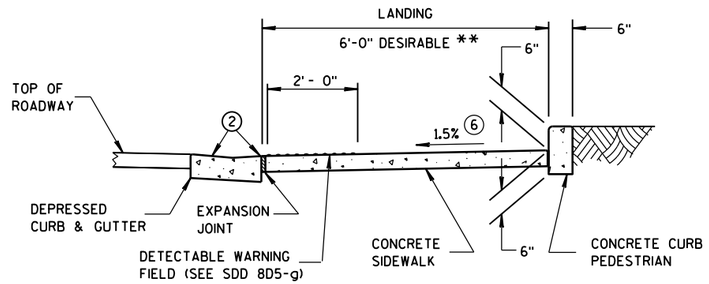


VIEW A-A

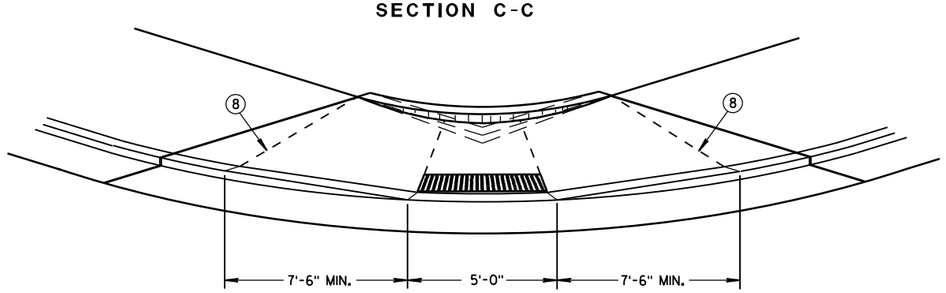
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

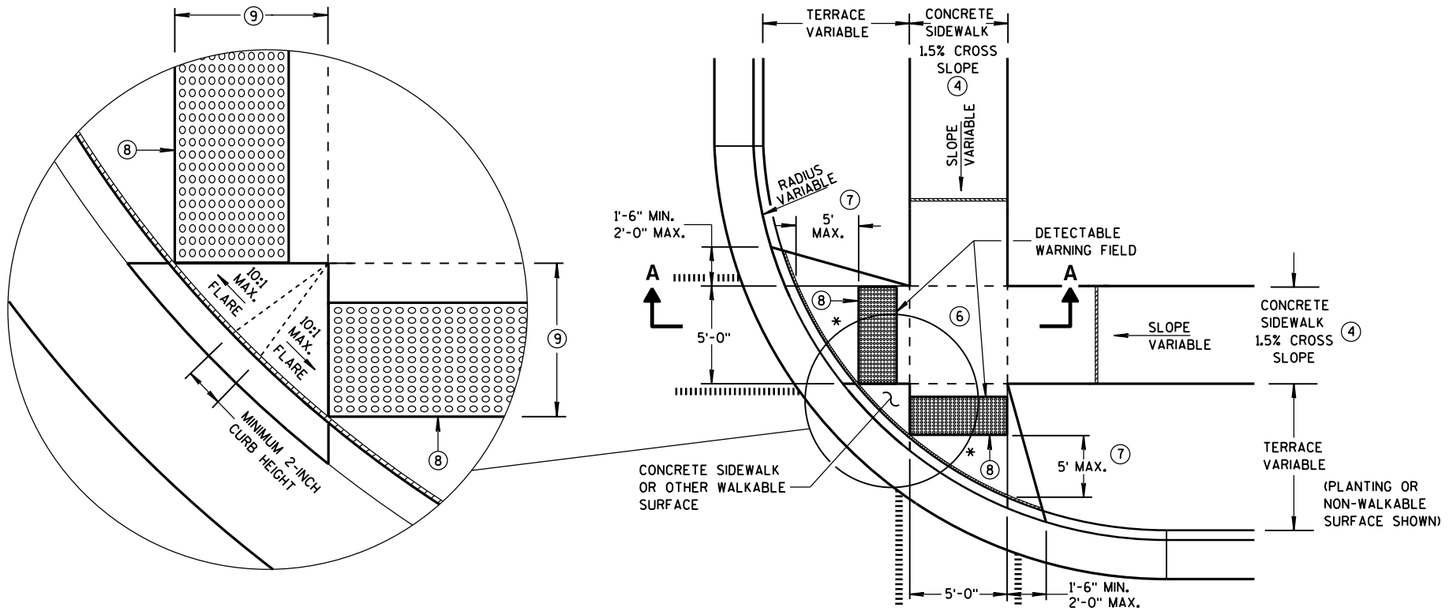
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

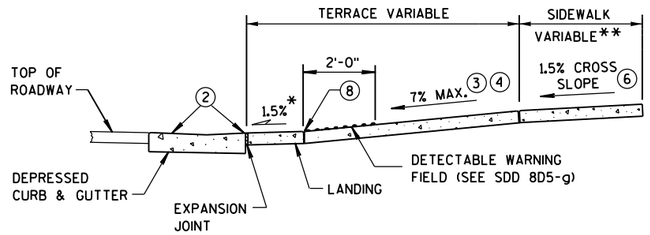
6

S.D.D. 8 D 5-19a



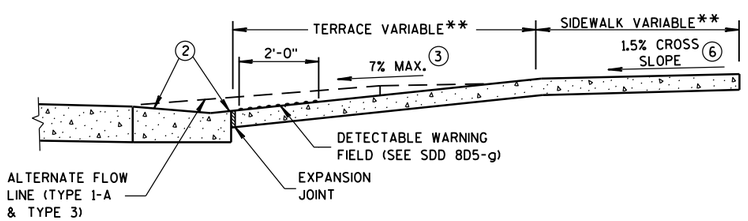
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

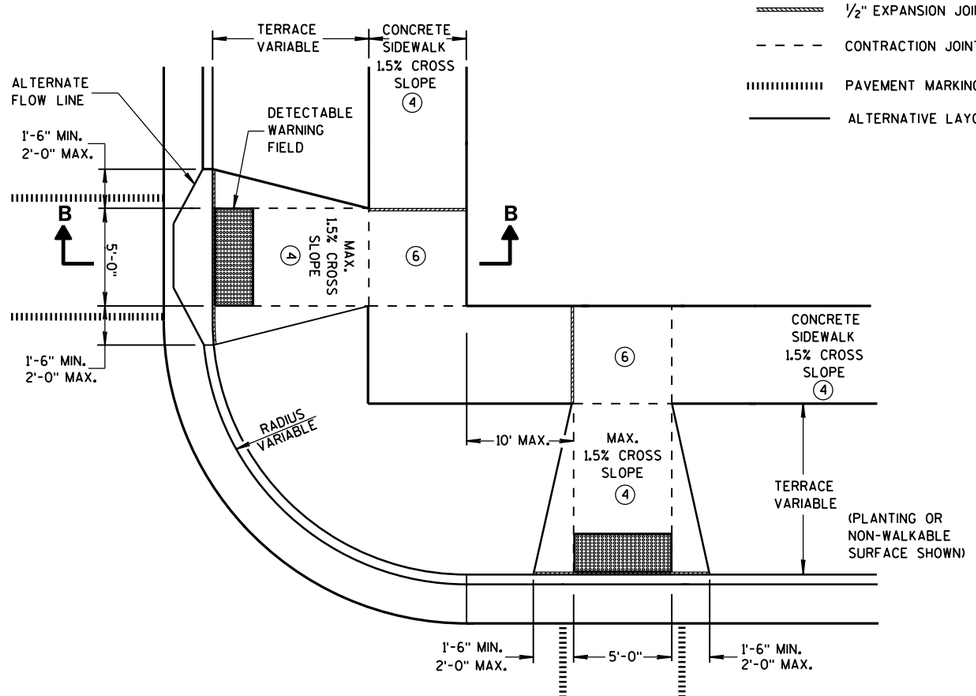
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



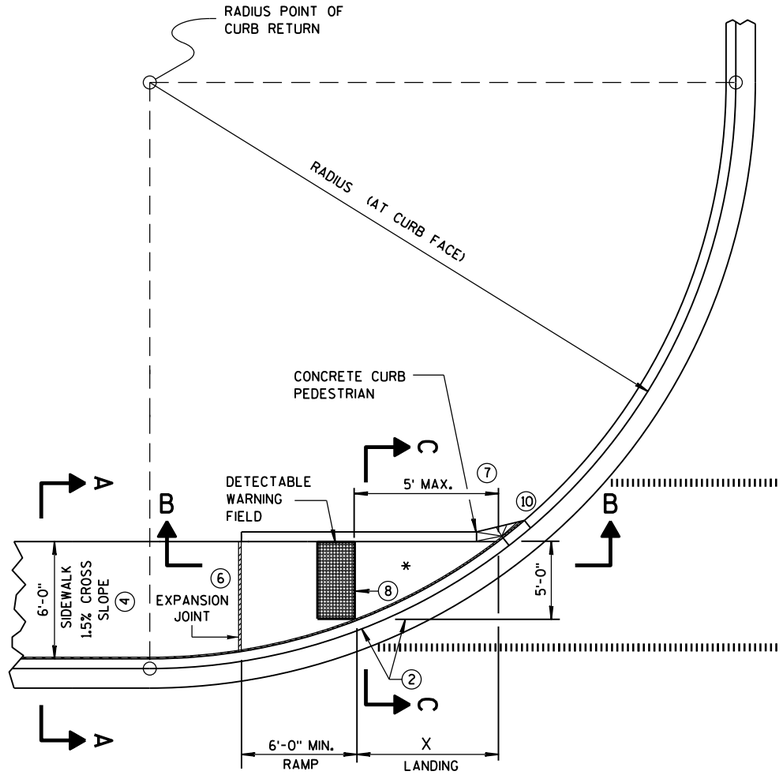
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

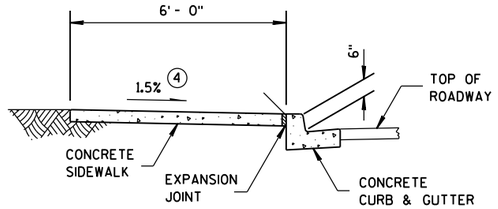
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

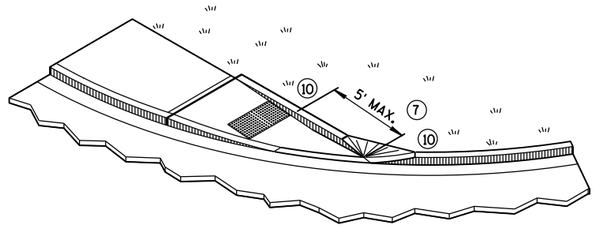
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

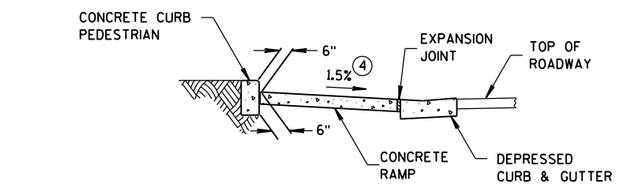
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

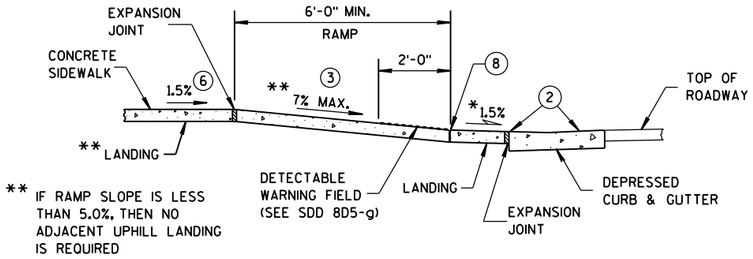
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



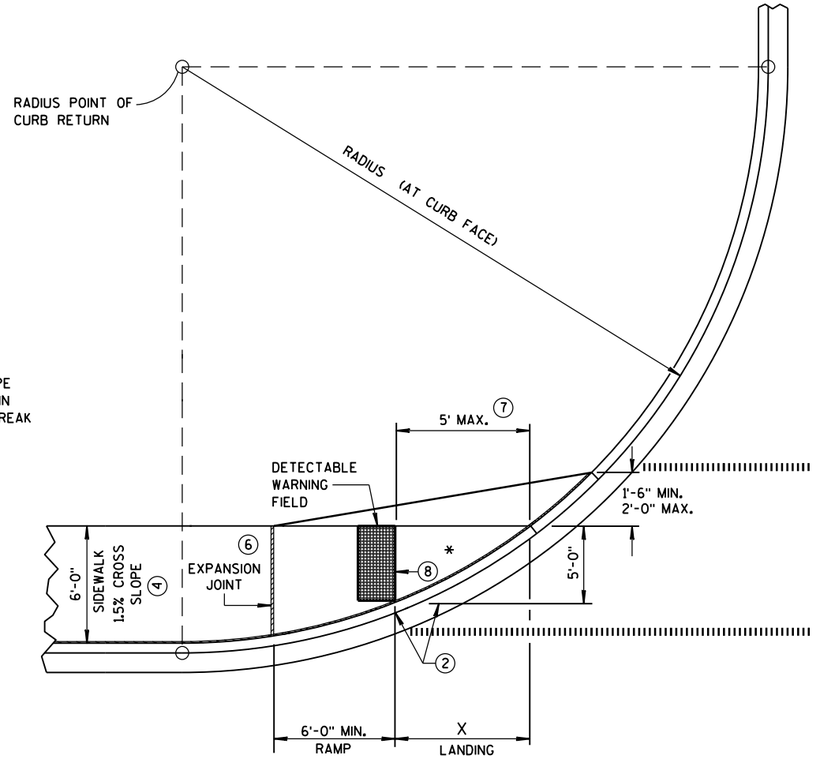
SECTION C-C FOR TYPE 4A



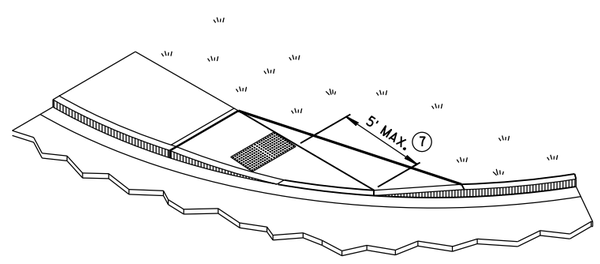
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

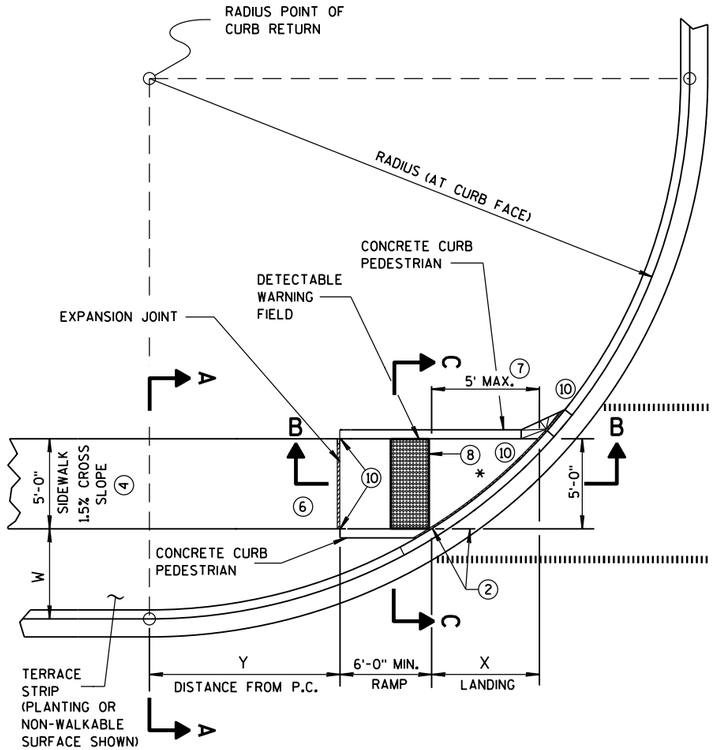
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

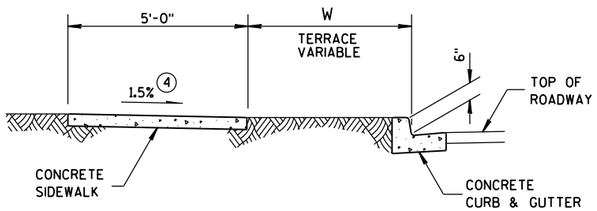
S.D.D. 8 D 5-19c

6

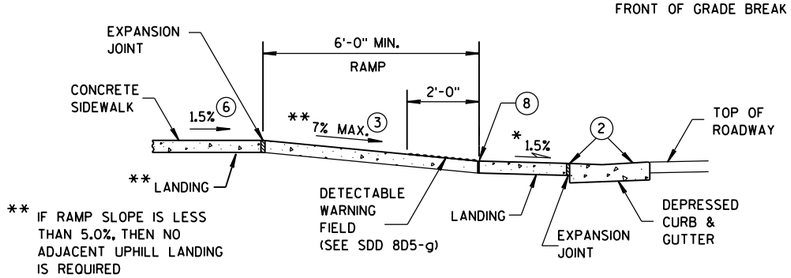
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



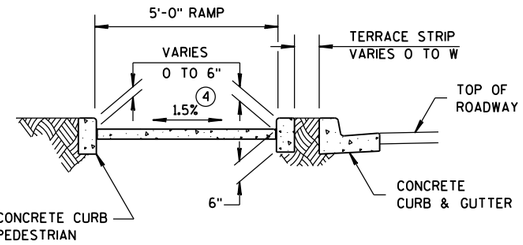
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

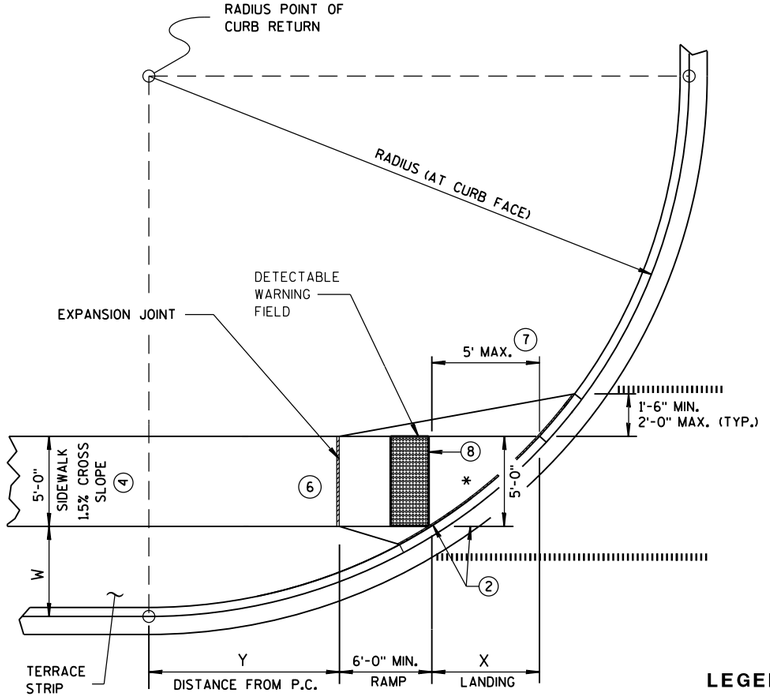
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

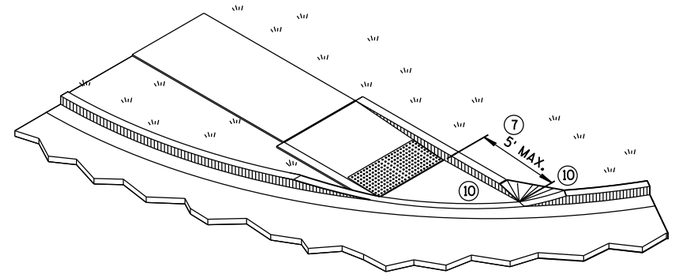
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

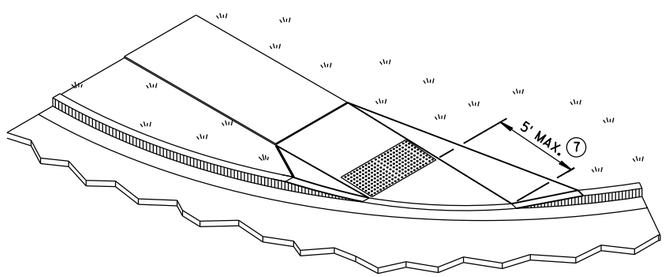
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

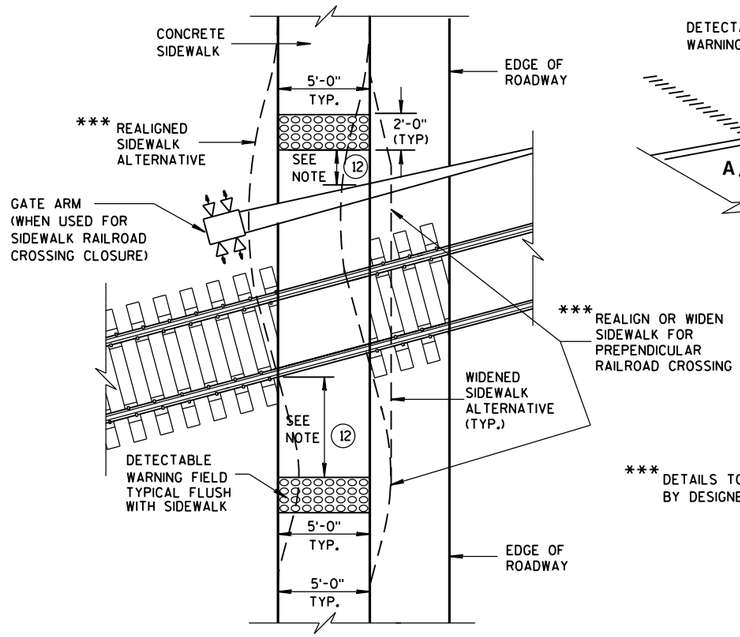
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

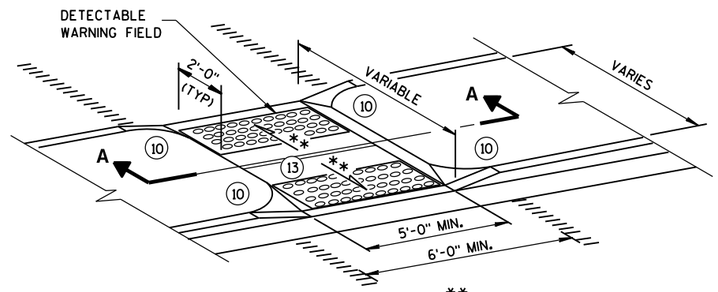
6

S.D.D. 8 D 5-19d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

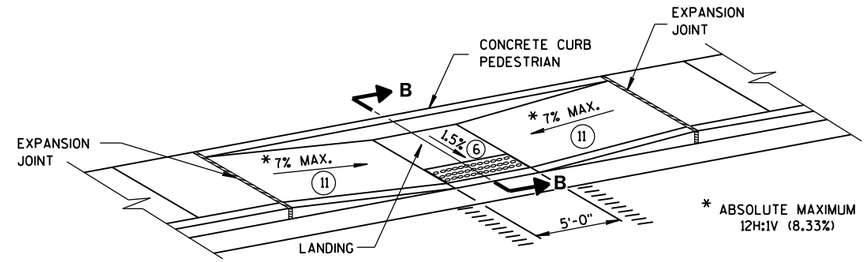
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

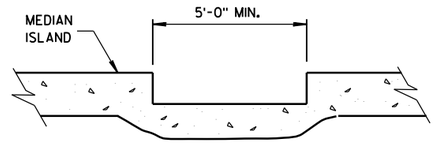
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

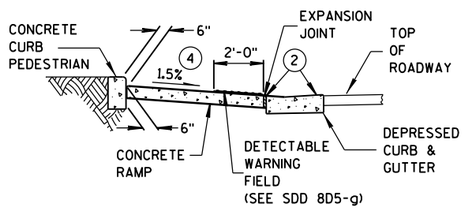
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

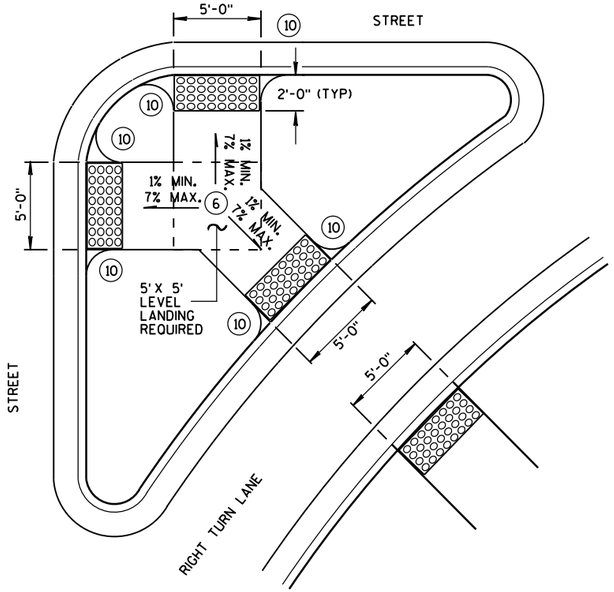


SECTION A-A

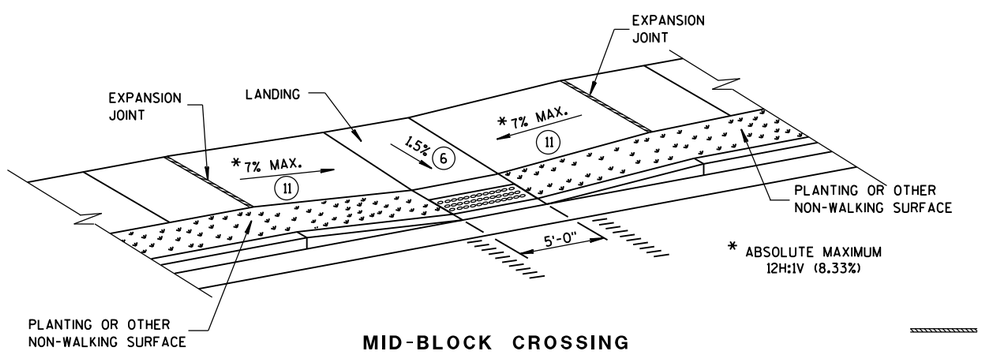


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

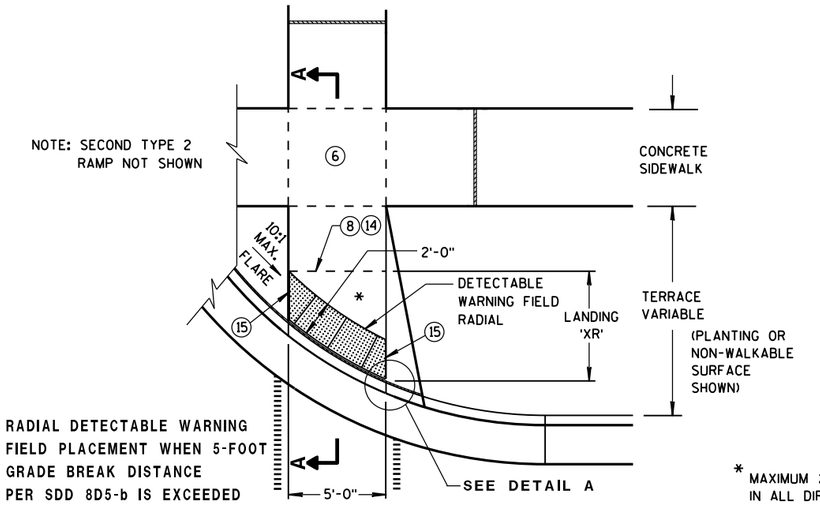
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

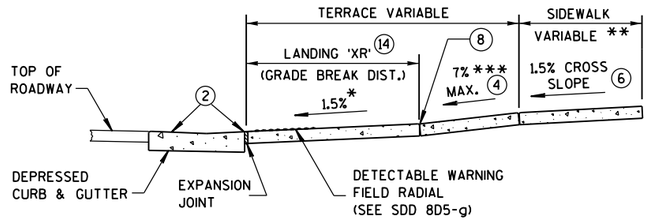
S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

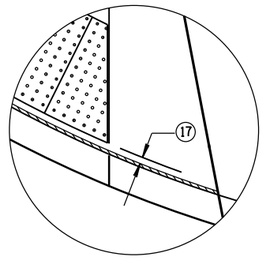
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

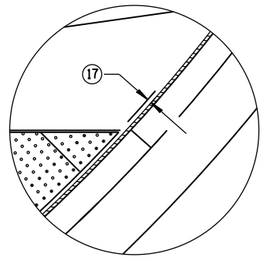
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

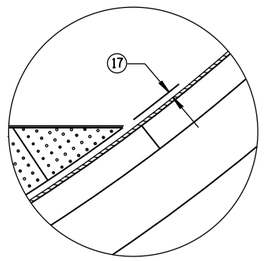
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



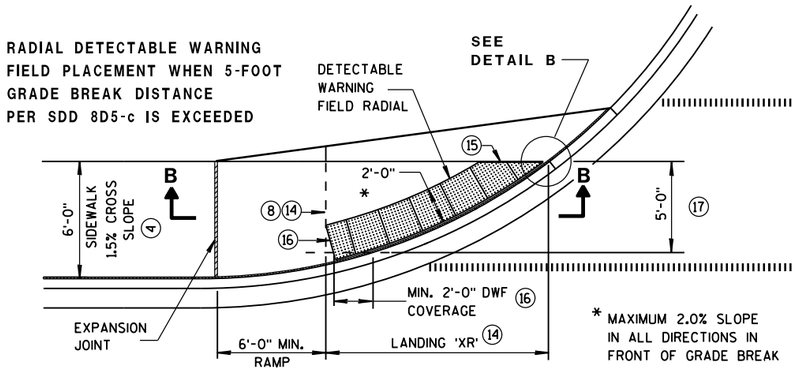
DETAIL A



DETAIL C

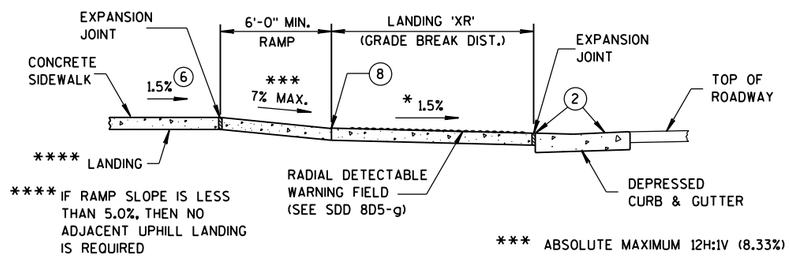


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

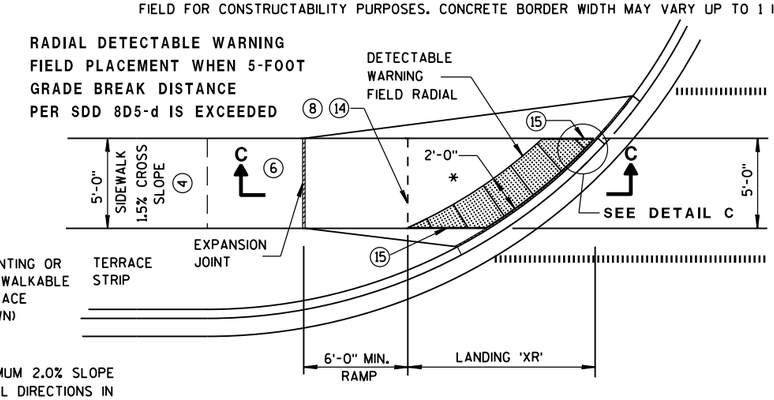
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

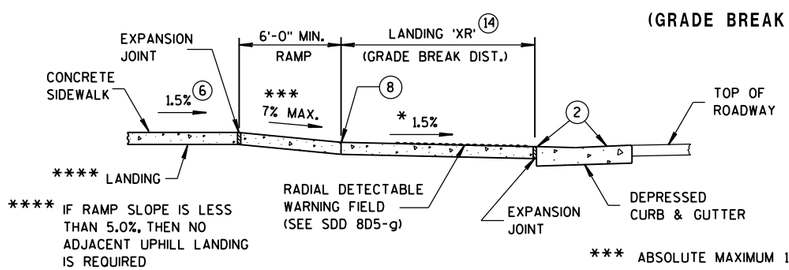
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

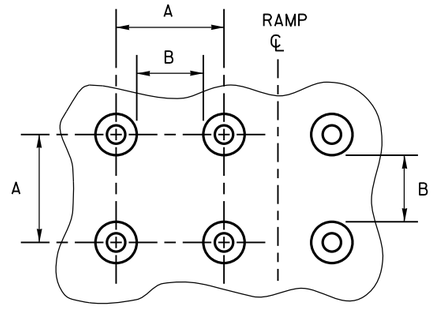
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

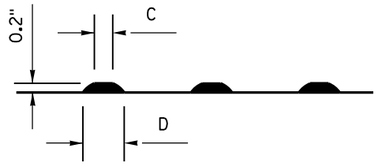
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

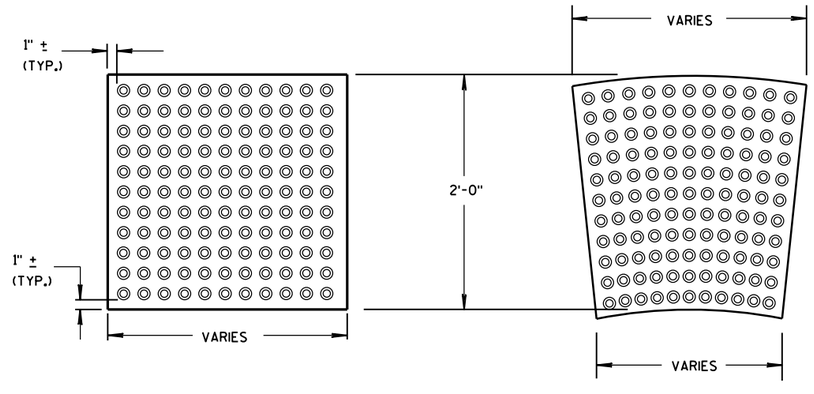
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

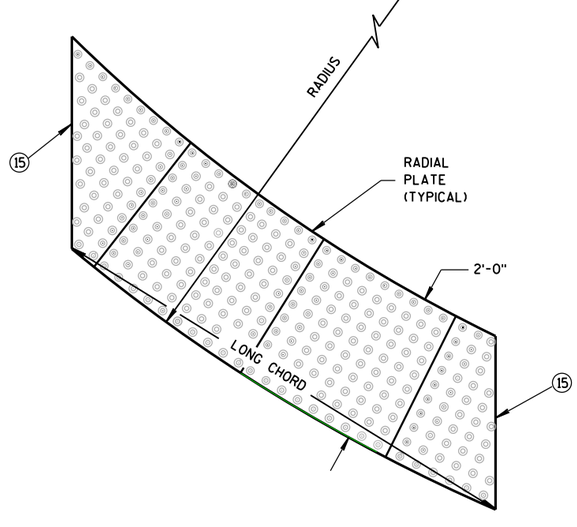


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



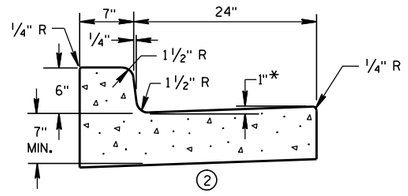
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

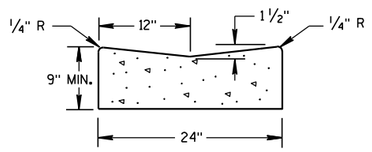
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

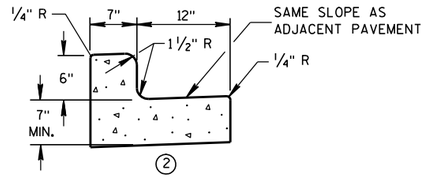
6
S.D.D. 8 D 5-19g



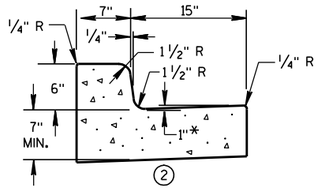
① CONCRETE CURB & GUTTER 31"



① CONCRETE GUTTER 24"

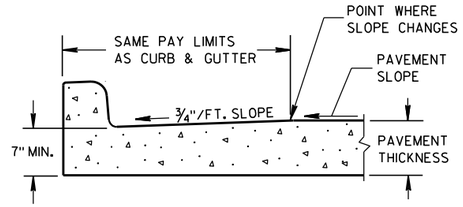


① CONCRETE CURB & GUTTER 19"



① CONCRETE CURB & GUTTER 22"

* TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

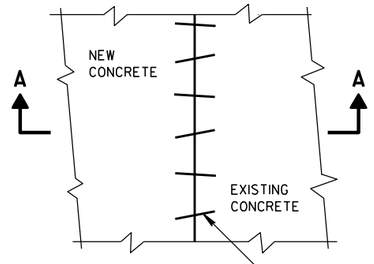
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURB.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS MAINTAINED.

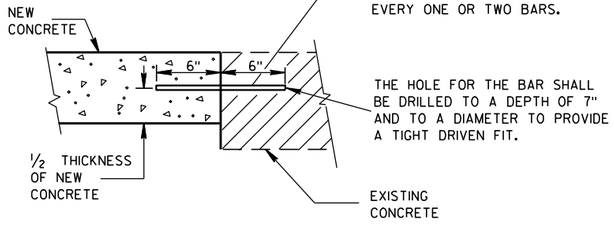
③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



PLAN VIEW

EXISTING AND NEW CONCRETE MAY BE CURB & GUTTER, SURFACE DRAIN, PAVEMENT OR OTHER CONCRETE STRUCTURE.

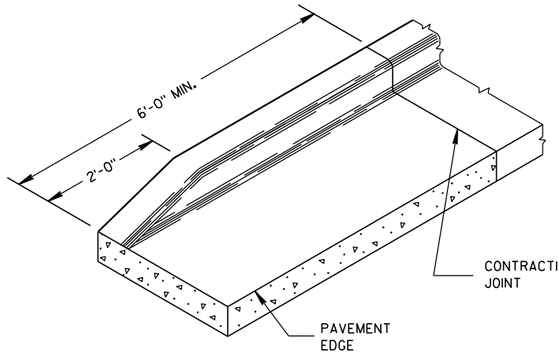
NO. 6 X 12" DEF. BARS SPACED 3'-0" C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



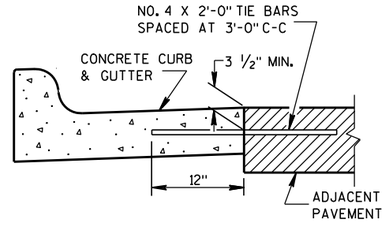
THE HOLE FOR THE BAR SHALL BE DRILLED TO A DEPTH OF 7" AND TO A DIAMETER TO PROVIDE A TIGHT DRIVEN FIT.

SECTION A-A

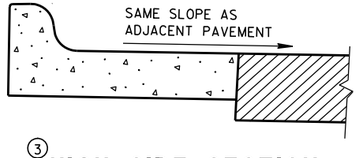
PAVEMENT TIES



END SECTION CURB & GUTTER



① TYPICAL TIE BAR LOCATION



③ HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional Use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/2/2010 — DATE

/S/ Jerry Zogg — ROADWAY STANDARDS ENGINEER

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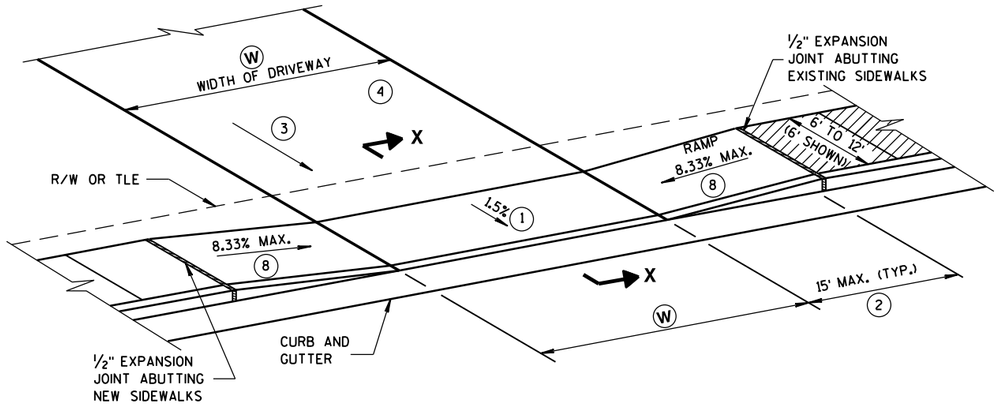
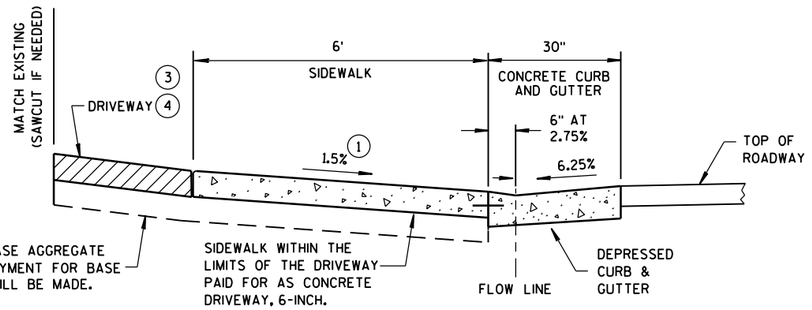
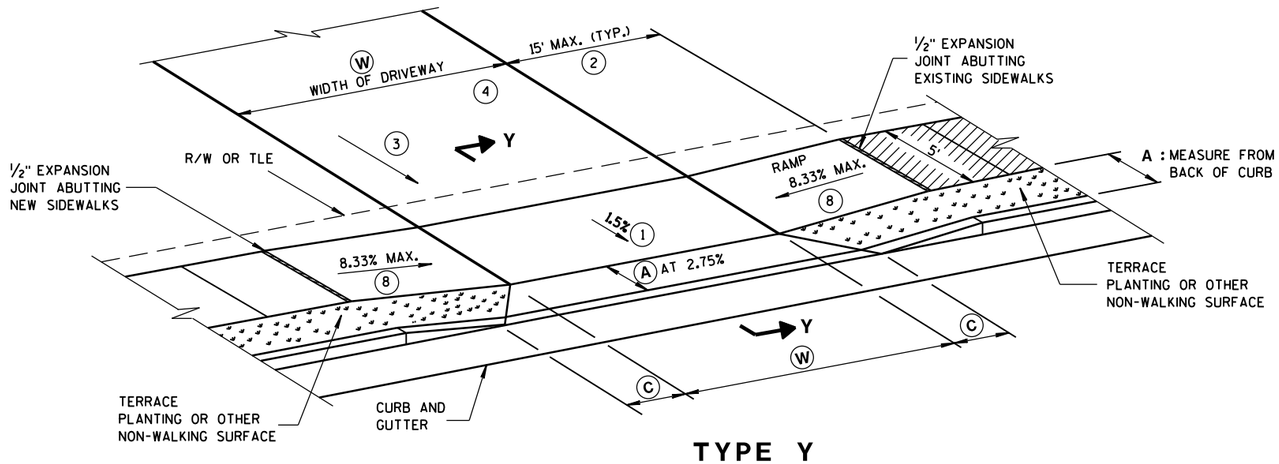


TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X

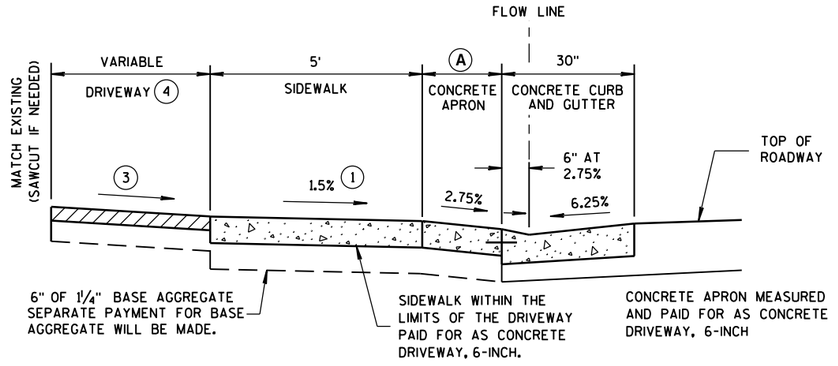


TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

1. CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
2. THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
3. DRIVEWAY SLOPES: DESIRABLE MAXIMUM
   - 10.5% UP AWAY FROM SIDEWALK (SAG)
   - 8.5% DOWN AWAY FROM SIDEWALK (CREST)
   - ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
4. DRIVEWAY TYPES
   - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
   - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
   - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)
5. PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.
6. (W) IS SHOWN ON PLAN AND PROFILE SHEETS.
7. OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.
8. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

A FEET	C FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS UNIT SUPERV

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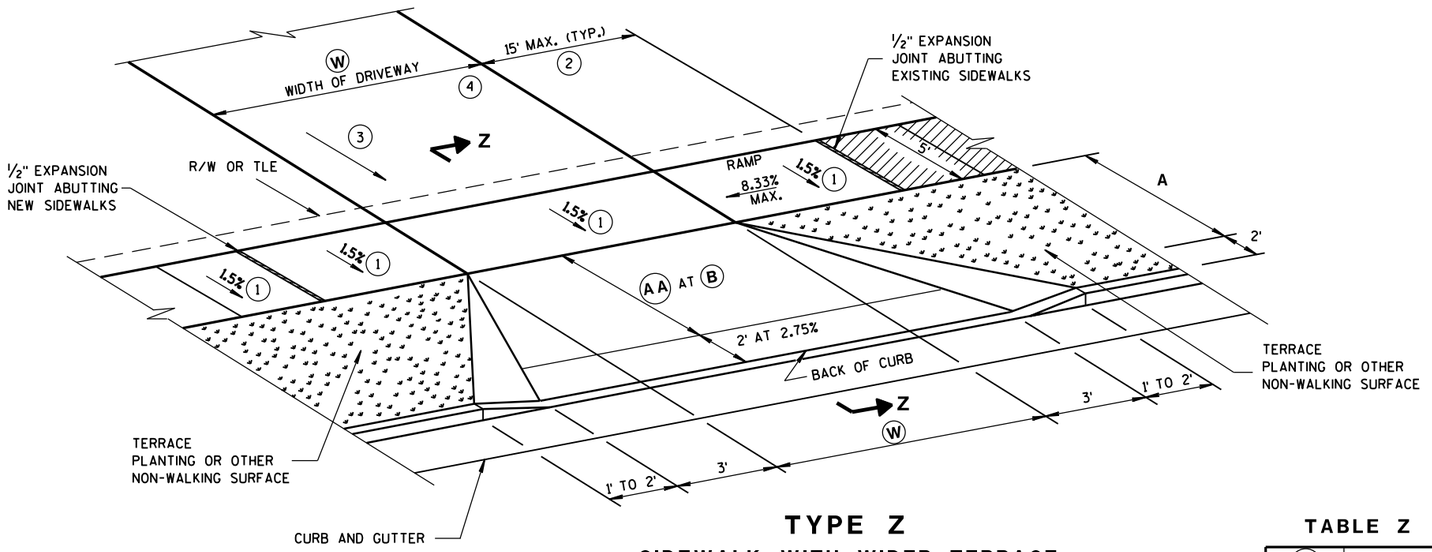
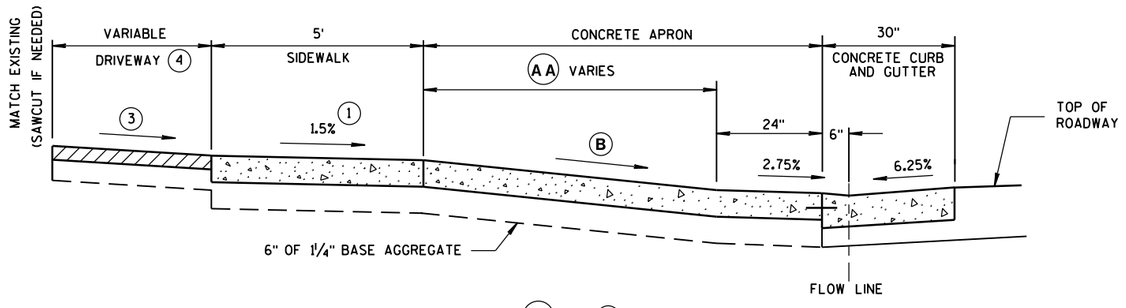


TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

TABLE Z

(AA) FEET	(B) %
4.5'	11.5%
5.5'	9-11.5%
6.5'	8-11.5%
7.5'	7-11.5%
8.5'	6-11.5%
9.5'	5-11.5%



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY, 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

CONCRETE APRON MEASURED AND PAID FOR AS CONCRETE DRIVEWAY, 6-INCH

SECTION Z-Z

DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

1. CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

2. THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

3. DRIVEWAY SLOPES: DESIRABLE MAXIMUM
   10.5% UP AWAY FROM SIDEWALK (SAG)
   8.5% DOWN AWAY FROM SIDEWALK (CREST)
   ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

4. DRIVEWAY TYPES
   - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
   - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
   - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)

5. PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

6. (W) IS SHOWN ON PLAN AND PROFILE SHEETS.

7. OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
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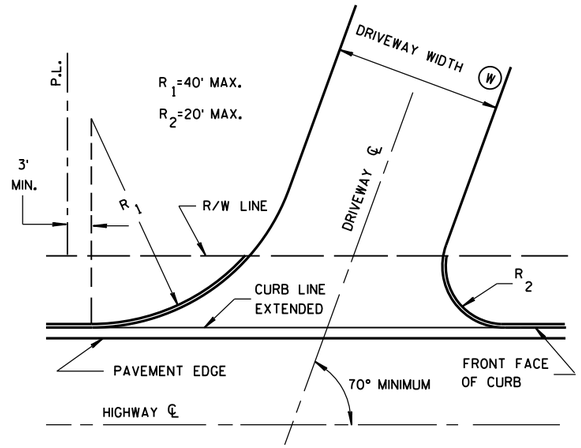
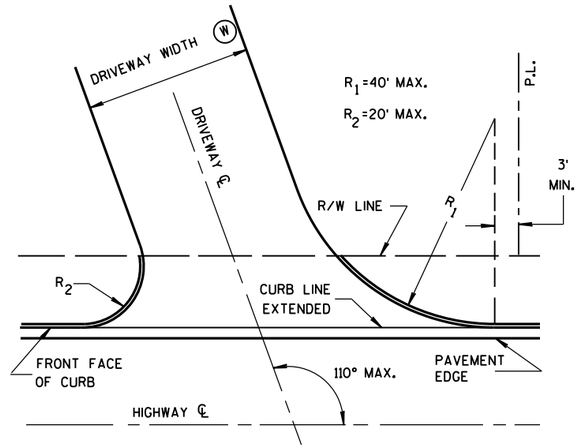
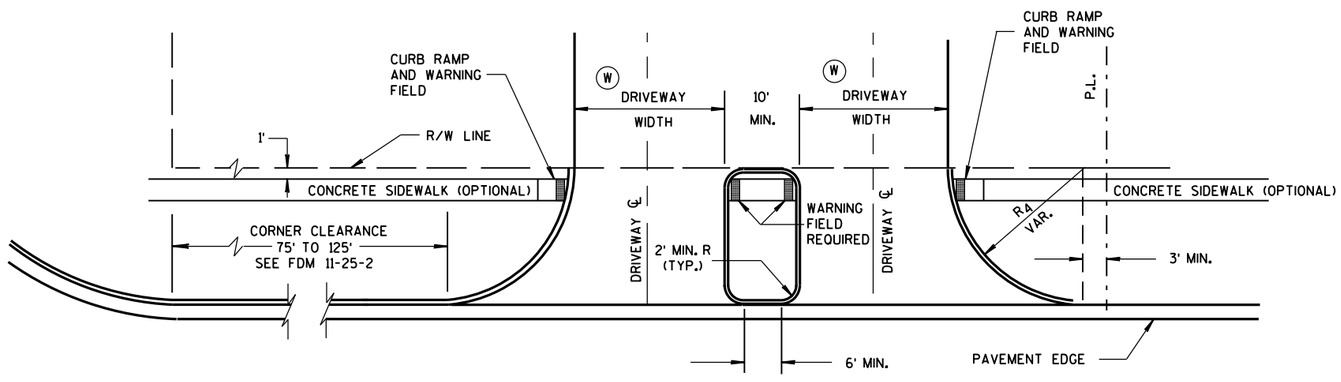




SKEWED DRIVEWAY DETAILS
(COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

Ⓦ DRIVEWAY WIDTHS:

COMMERCIAL - 35' MAX., 16' MIN.

RESIDENTIAL AND NON-COMMERCIAL - 24' MAX., 12' MIN.

DRIVEWAYS WITH CURB & GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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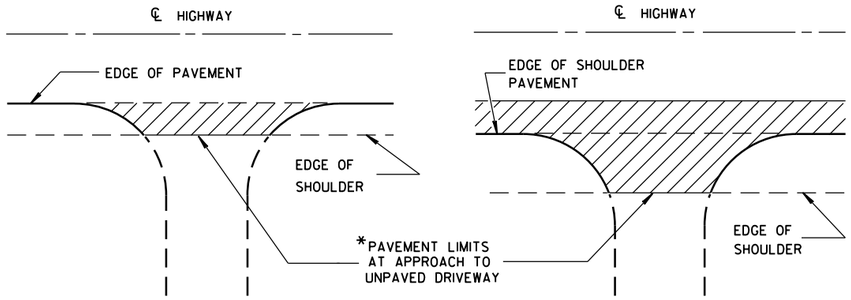


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

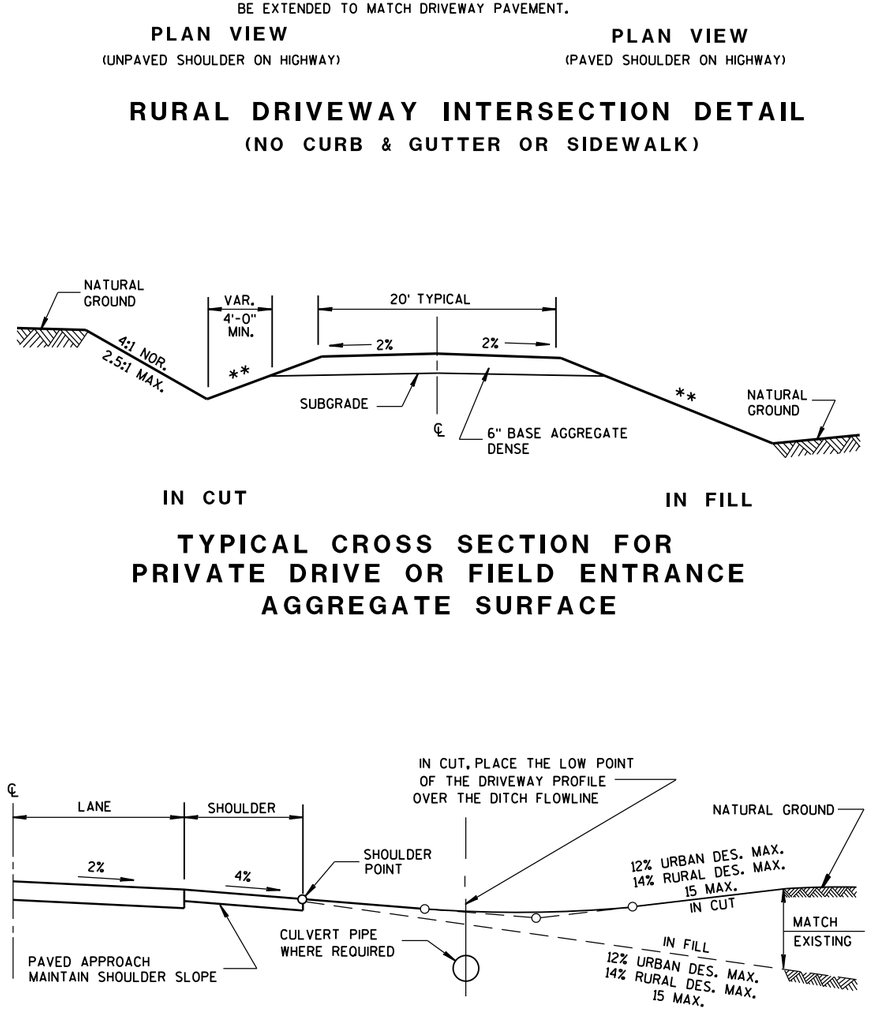
RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)

IN CUT **IN FILL**

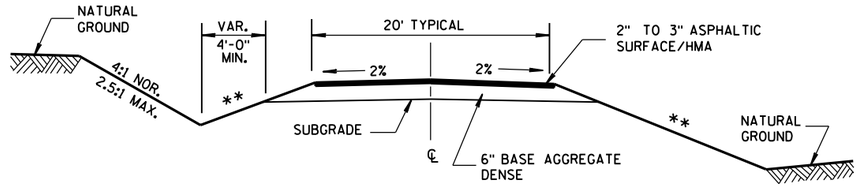
TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥35 TO <60	6:1
≥60	10:1



TYPICAL DRIVEWAY PROFILES



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
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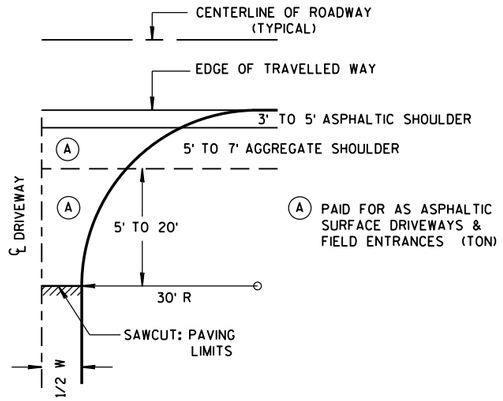
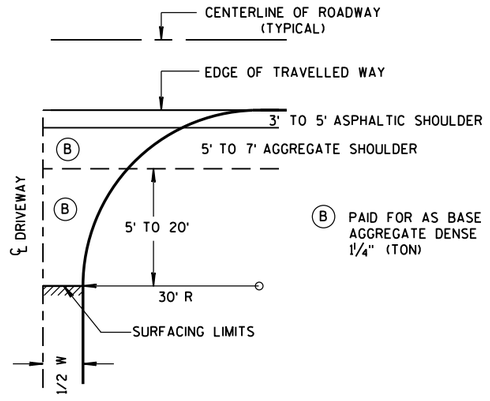


PLAN VIEW
HALF SECTION

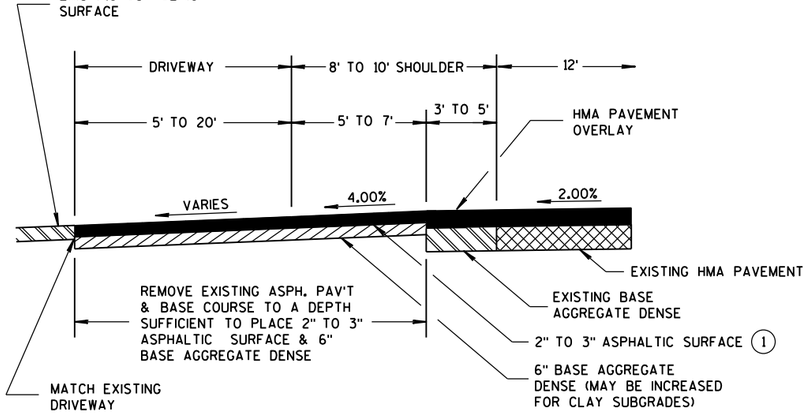
W MIN. = 16'
W MAX. = 24'



PLAN VIEW
HALF SECTION

GENERAL NOTES

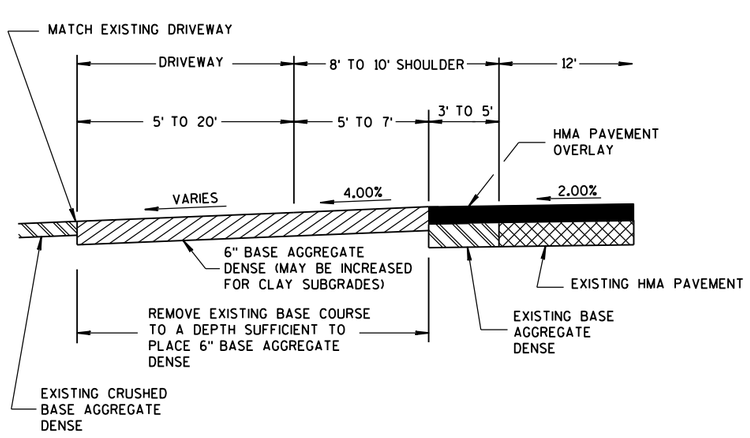
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
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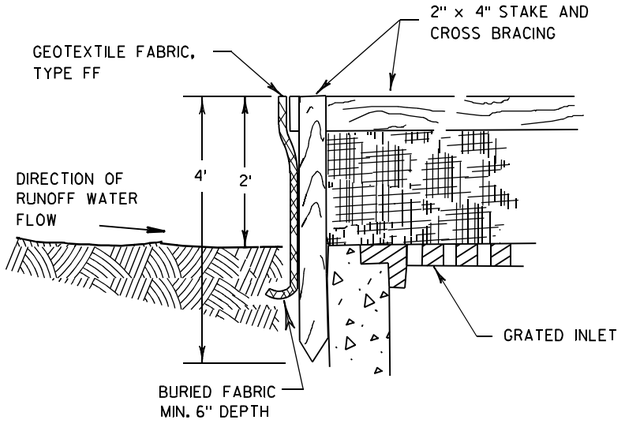
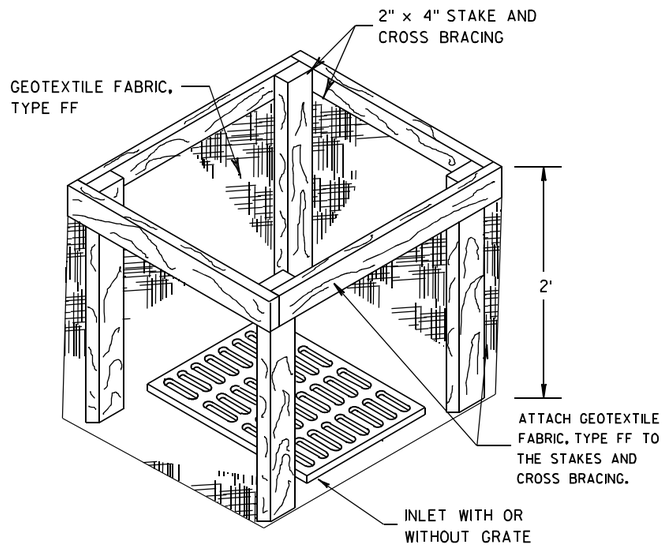
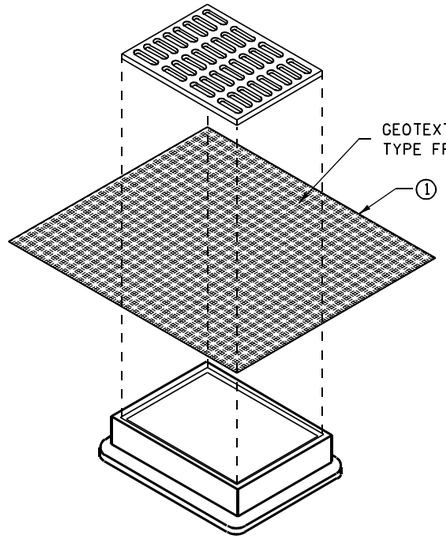


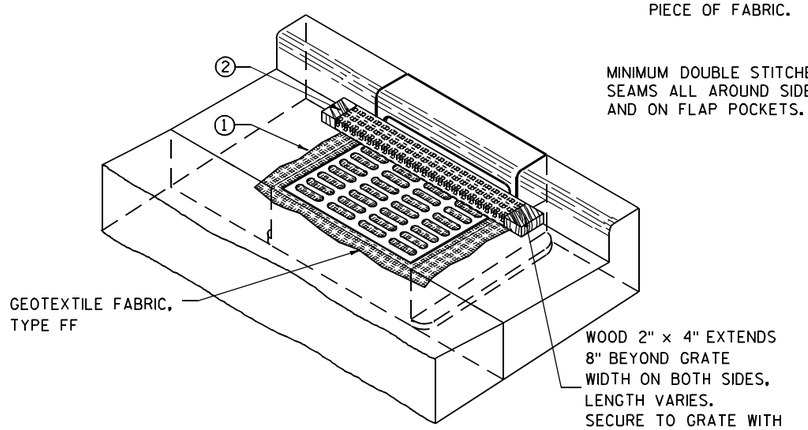


INLET PROTECTION, TYPE A

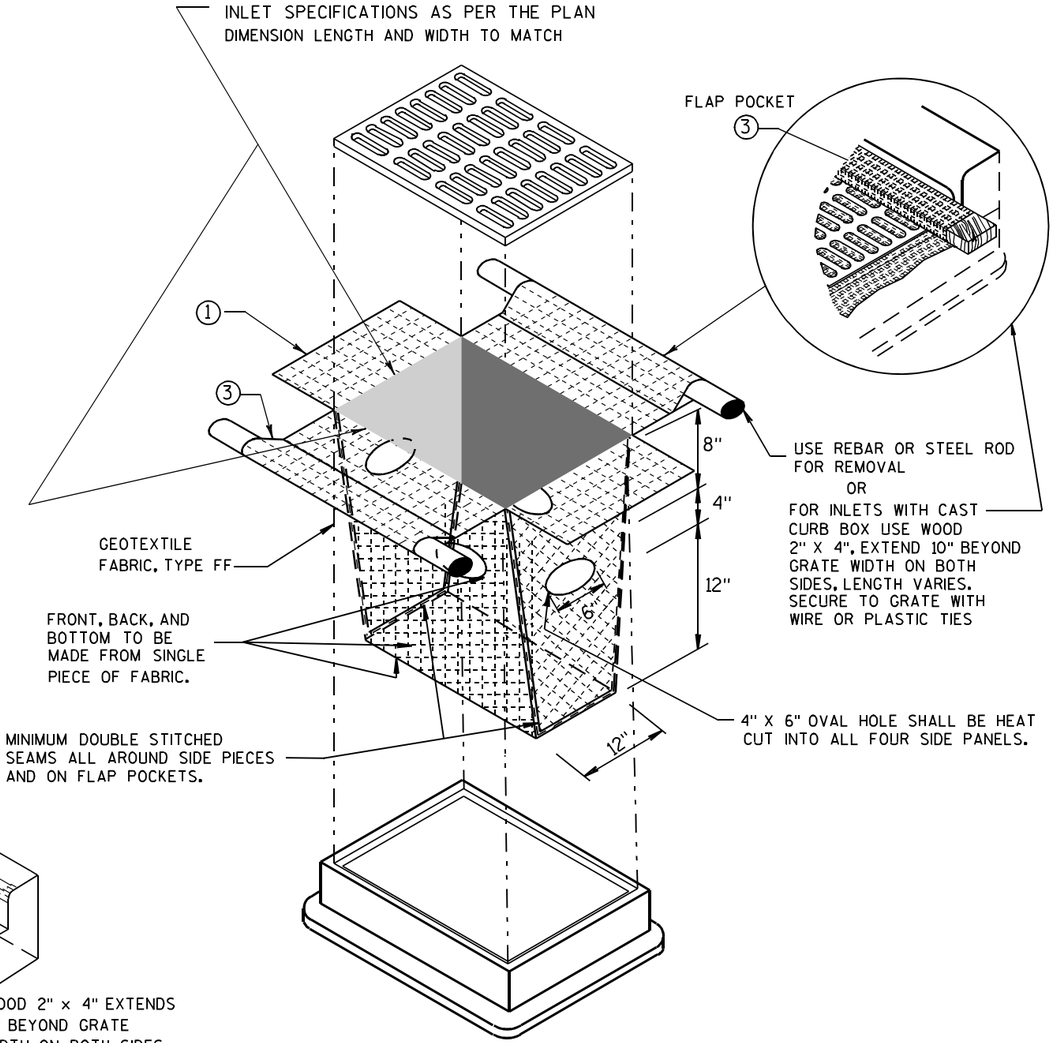


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

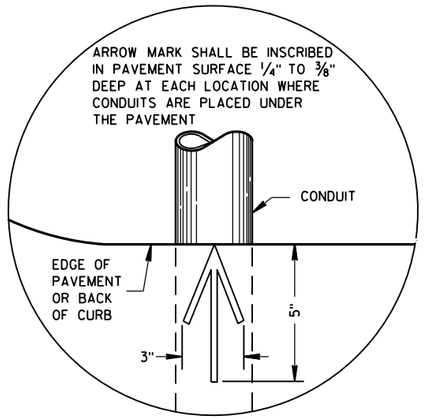
FHWA

6

S.D.D. 8 E 10-2

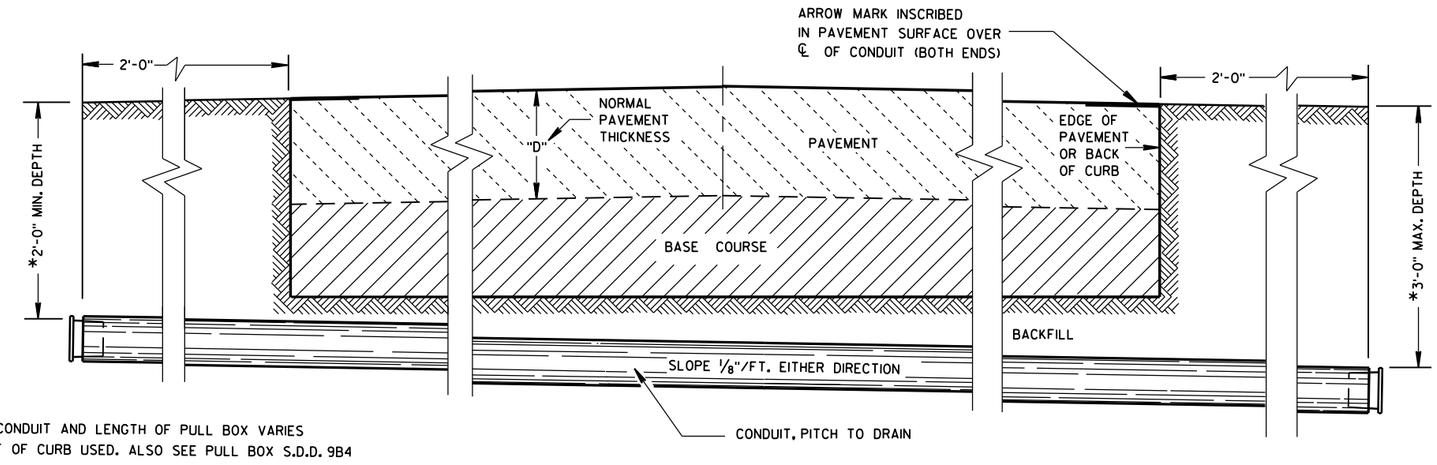
6

S.D.D. 8 E 10-2



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

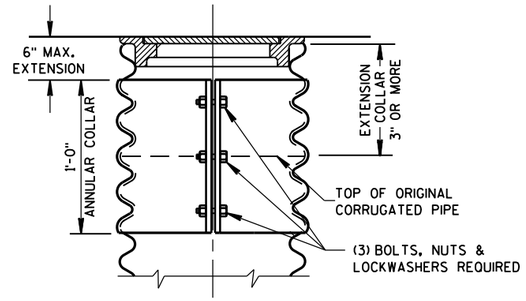
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

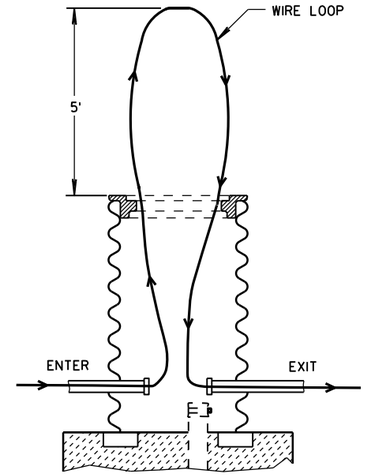
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

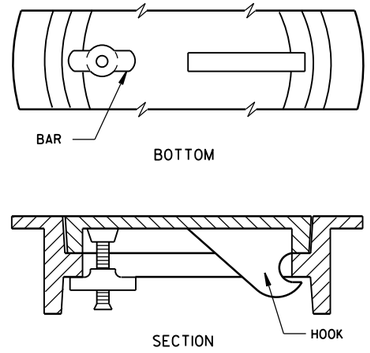
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

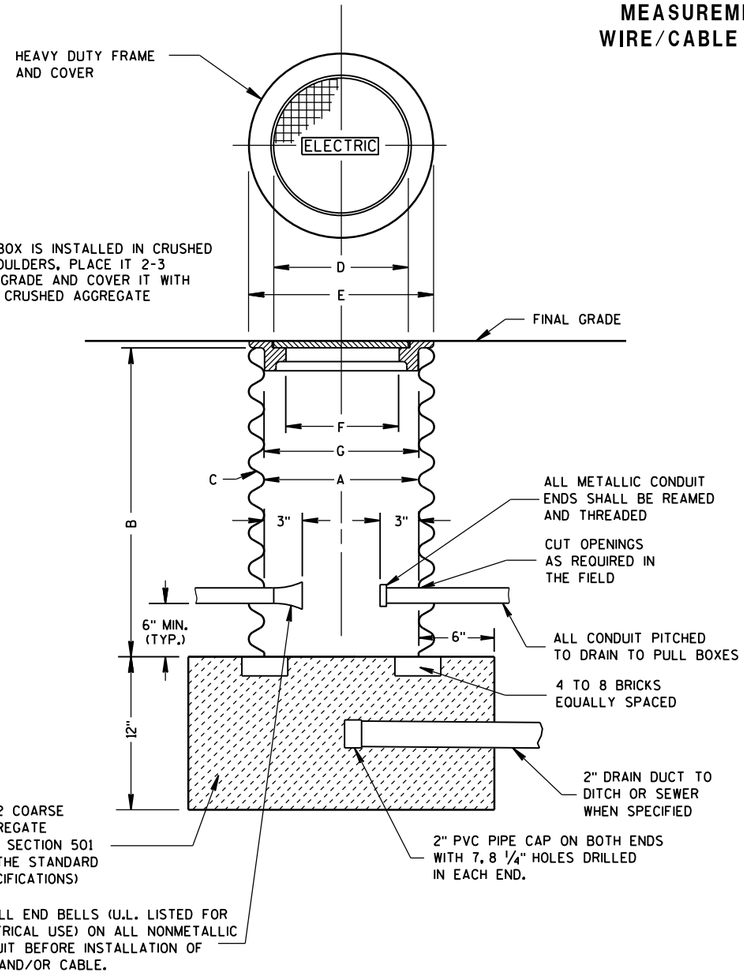


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



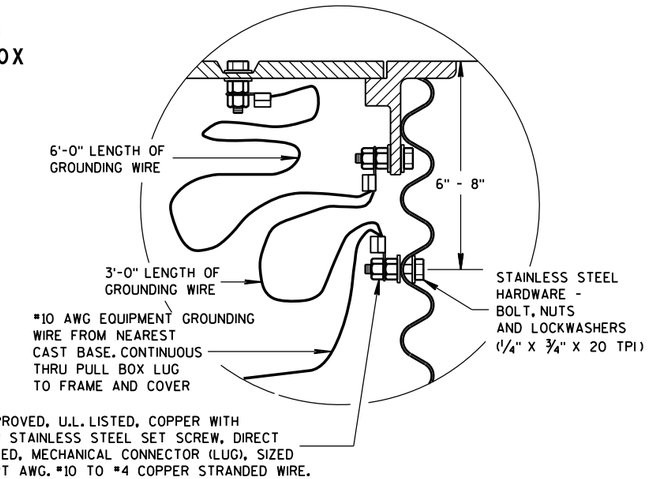
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

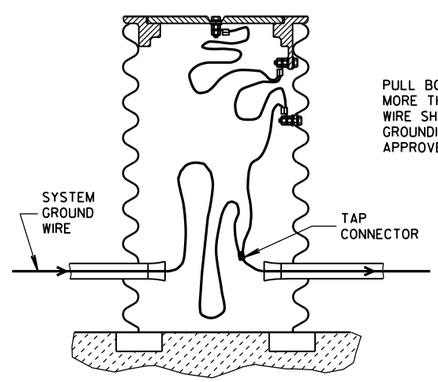


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

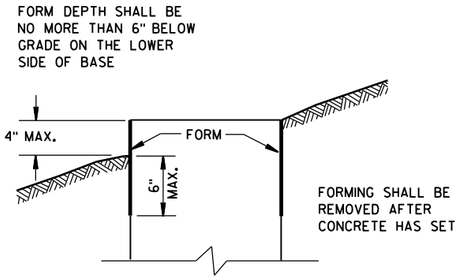
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 441
FHWA

6

S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

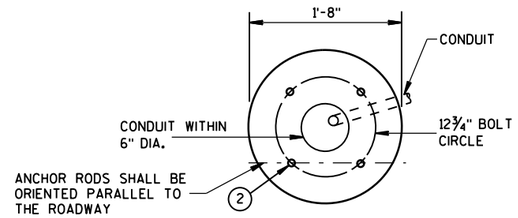
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

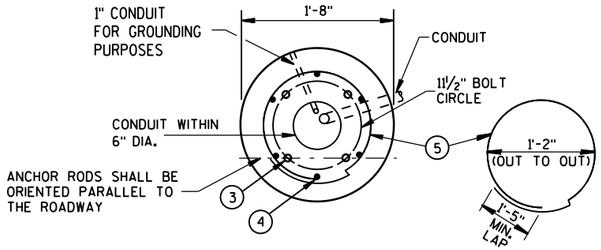
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

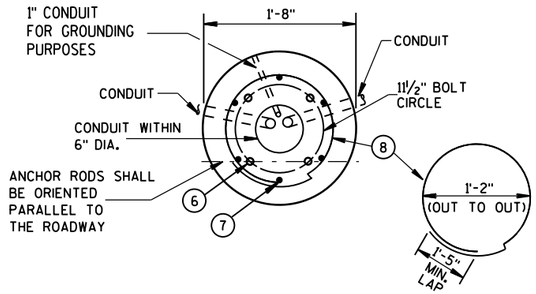
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

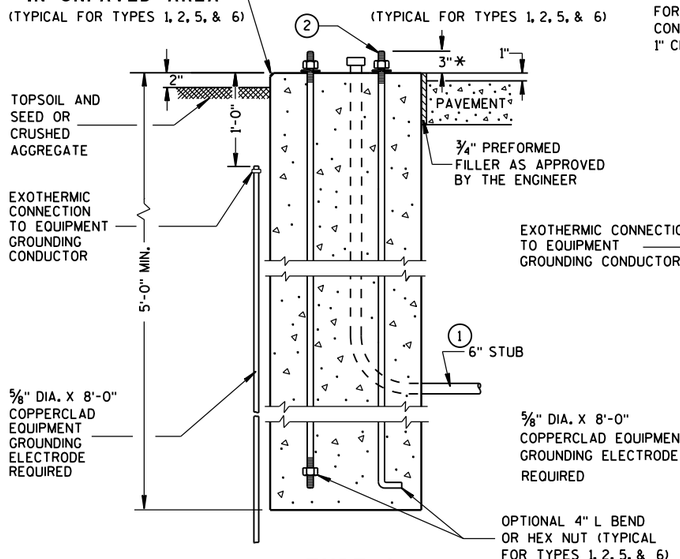




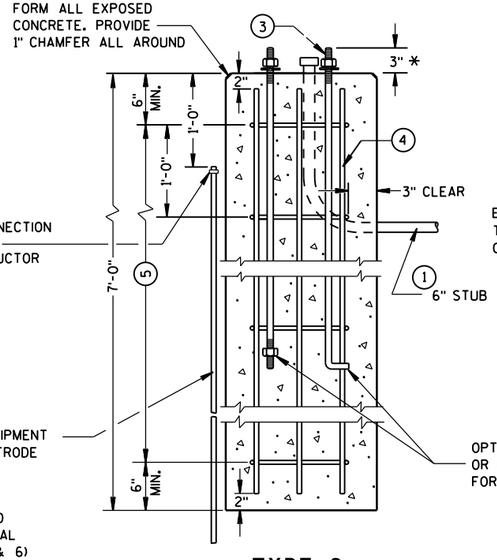


HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)

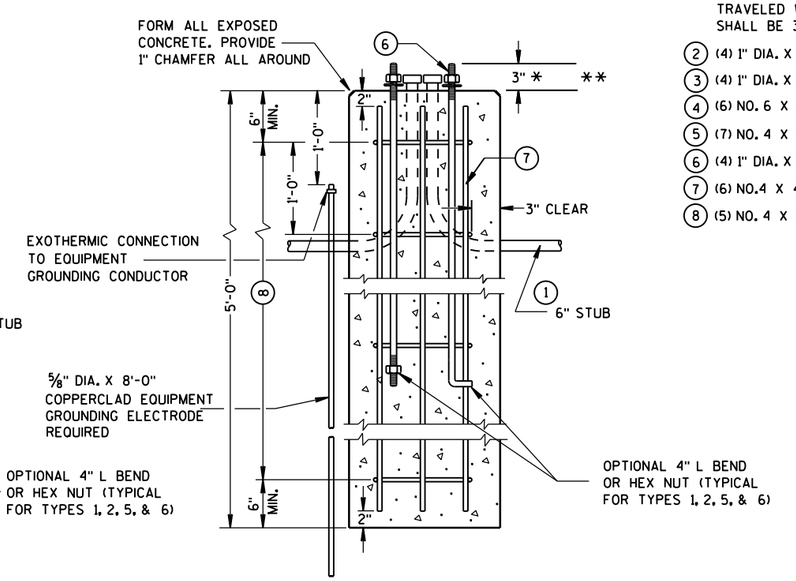
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 442
FHWA

6

S.D.D. 9 C 2-7

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

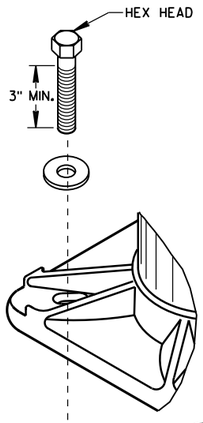
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

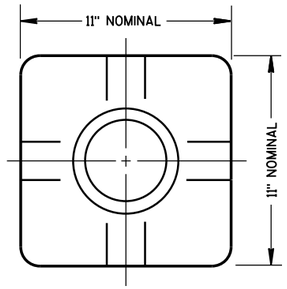
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

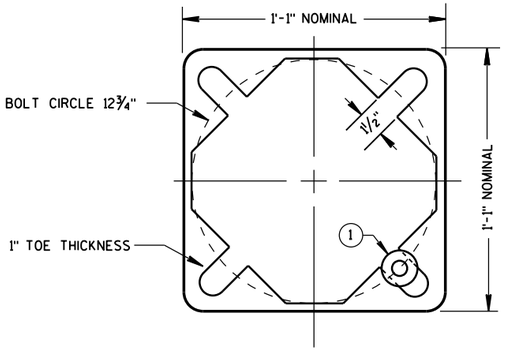
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

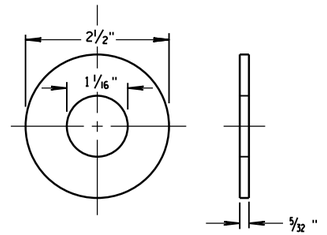




TOP VIEW
(PEDESTAL BASE)

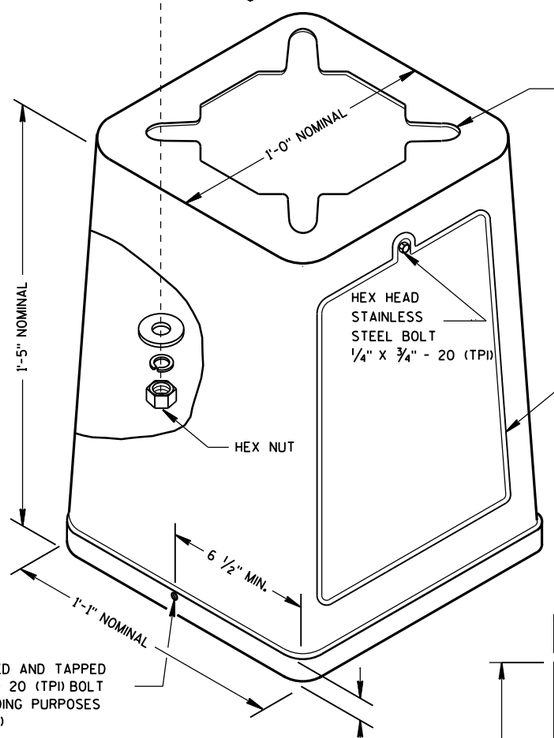


BOTTOM VIEW
(PEDESTAL BASE)

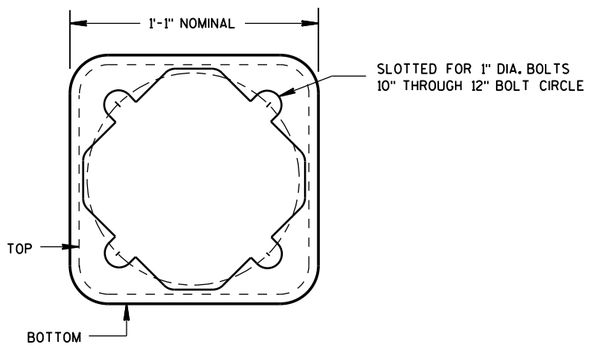


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

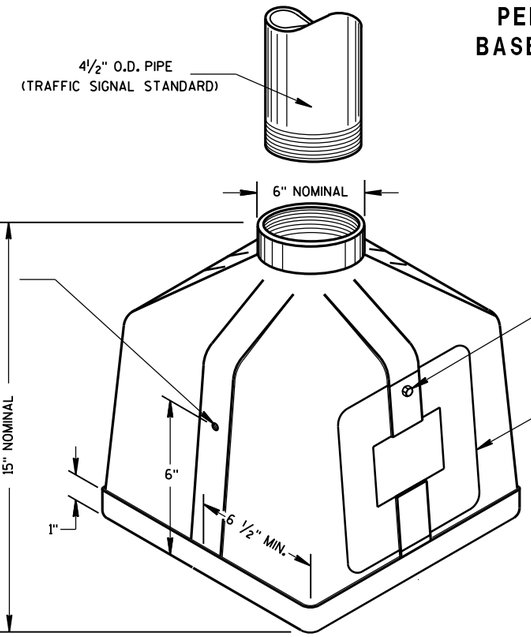
PEDESTAL BASE WASHER (1)



ISOMETRIC VIEW

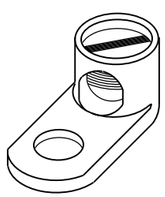


BOTTOM VIEW
(TRANSFORMER BASE)



ISOMETRIC VIEW

PEDESTAL BASE

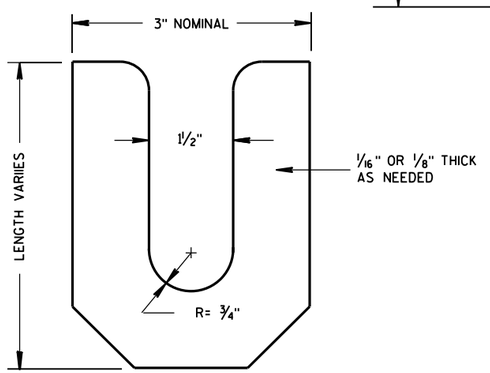


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

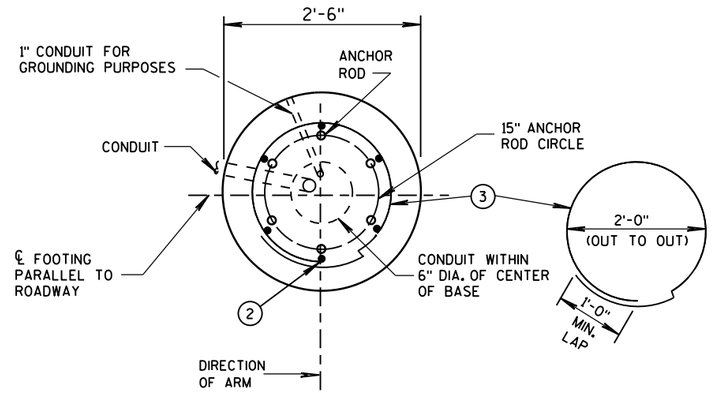
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

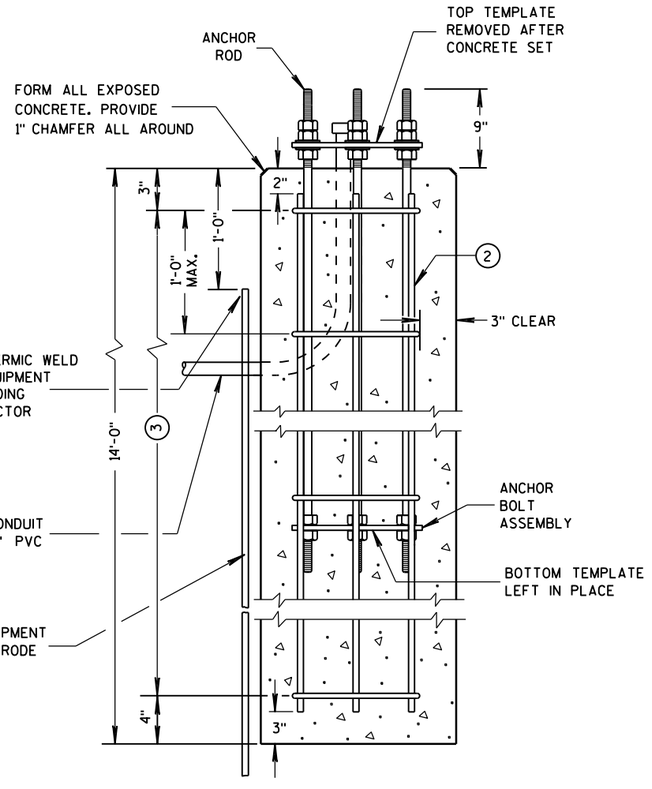
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (15) NO. 4 X 7'-4" BAR STEEL REINFORCEMENT @ 1'-0" MAX. C-C.

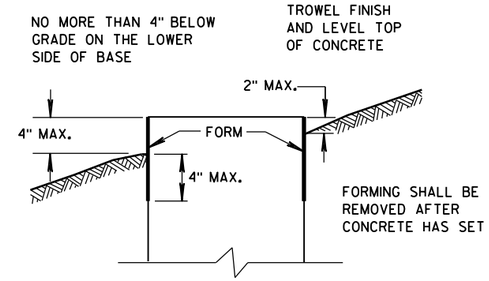
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.



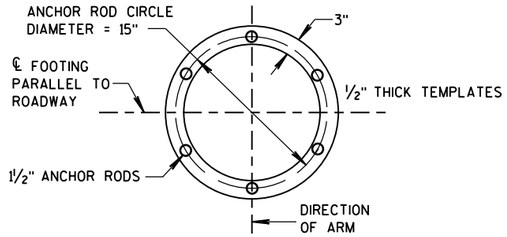


CONCRETE BASE TYPE 10
(FOR TYPE 9 & 10 POLES)

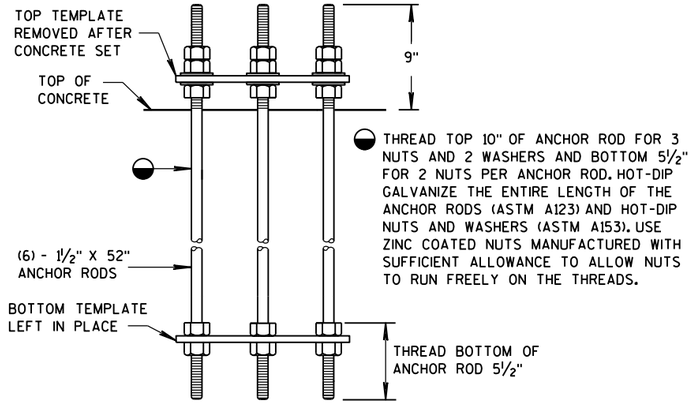
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	69
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 444
FHWA

6
S.D.D. 9 C 11-9

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

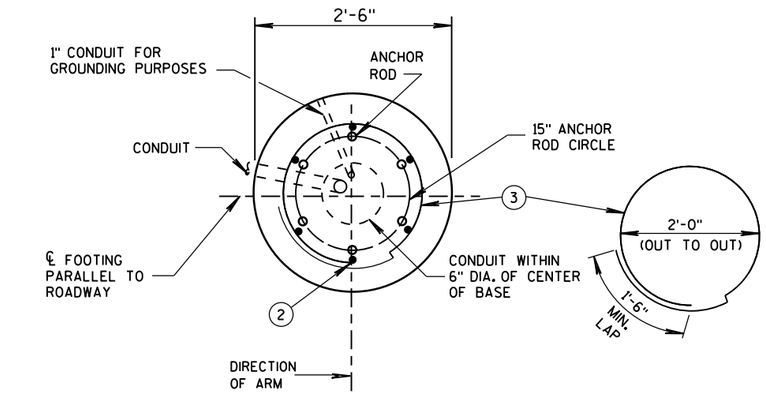
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

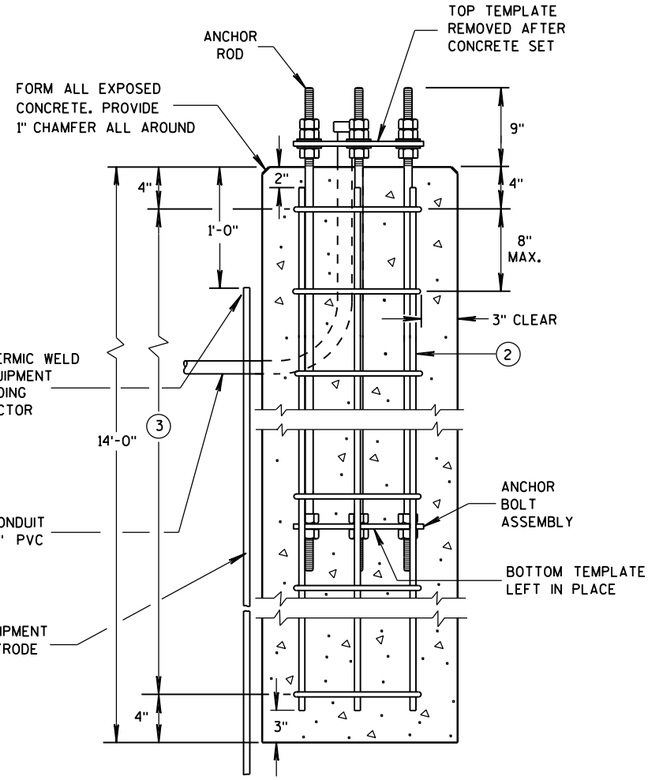
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

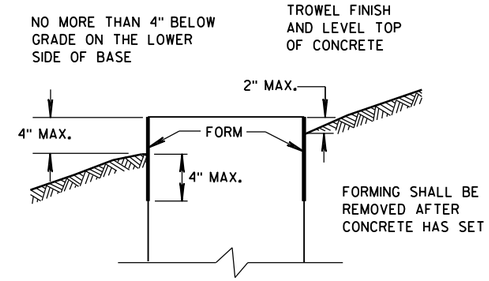




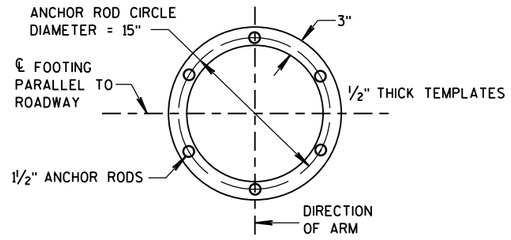
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

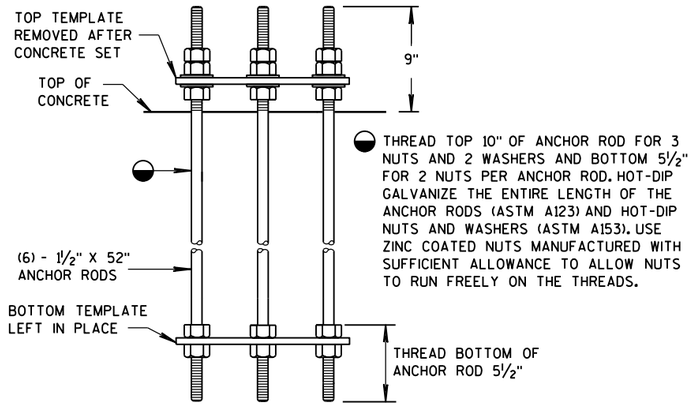
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

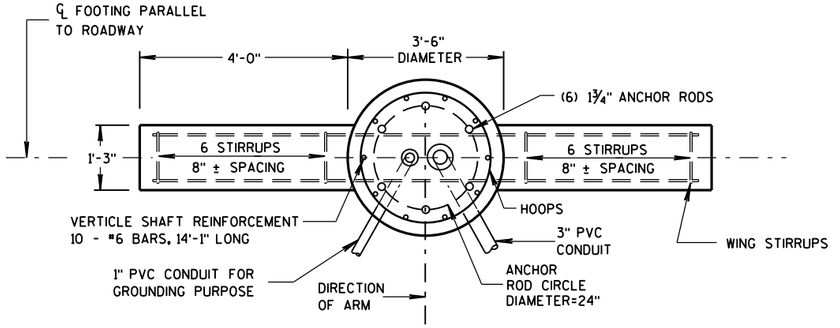
CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

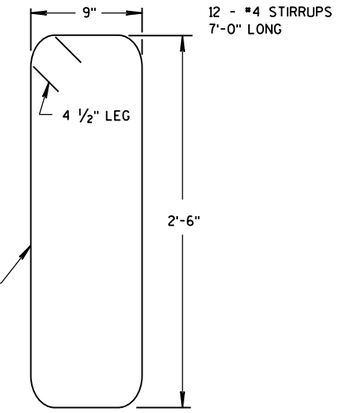
APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

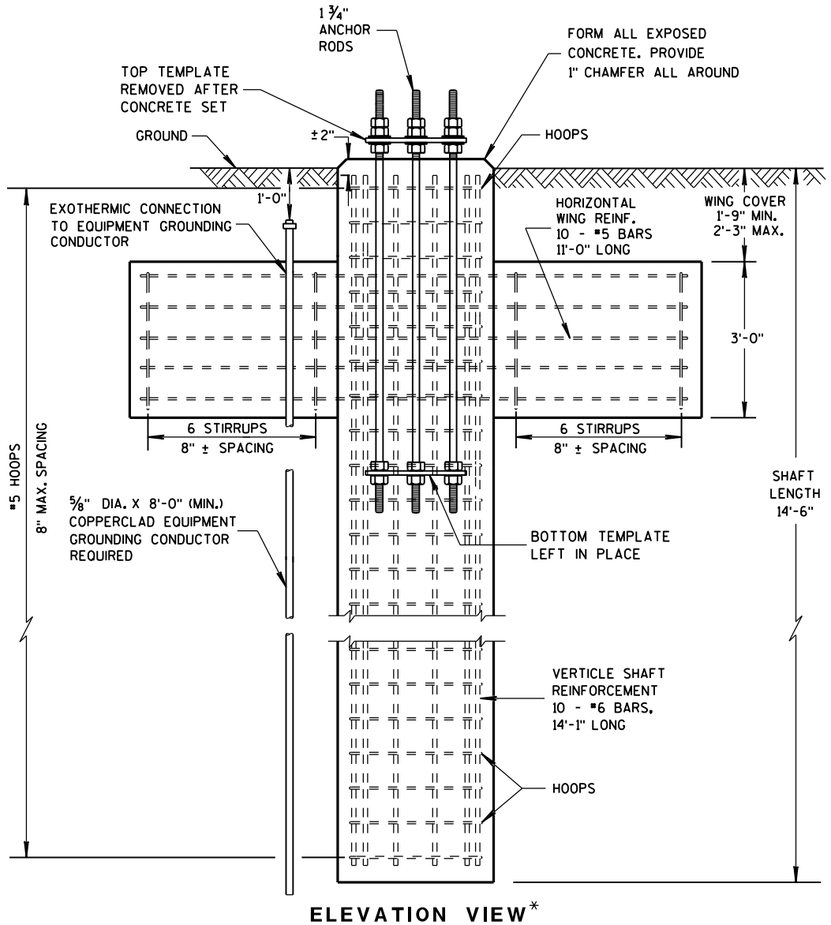
S.D.D. 9 C 11-10



PLAN VIEW

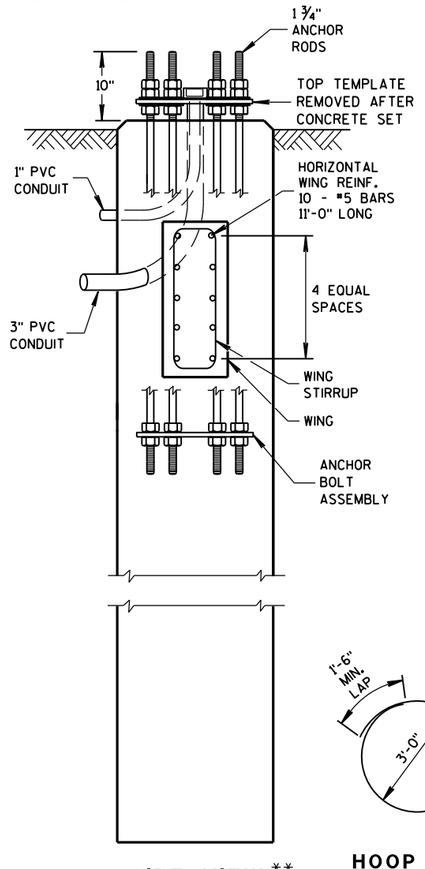


WING STIRRUP



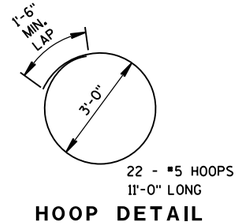
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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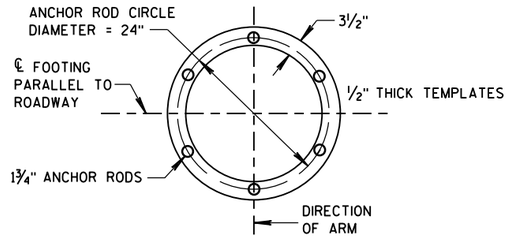
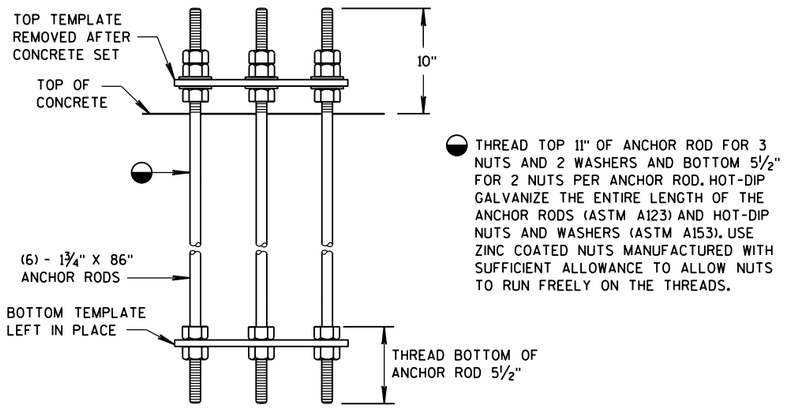
S.D.D. 9 C 12-9a

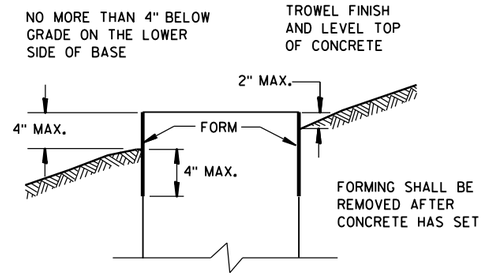


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

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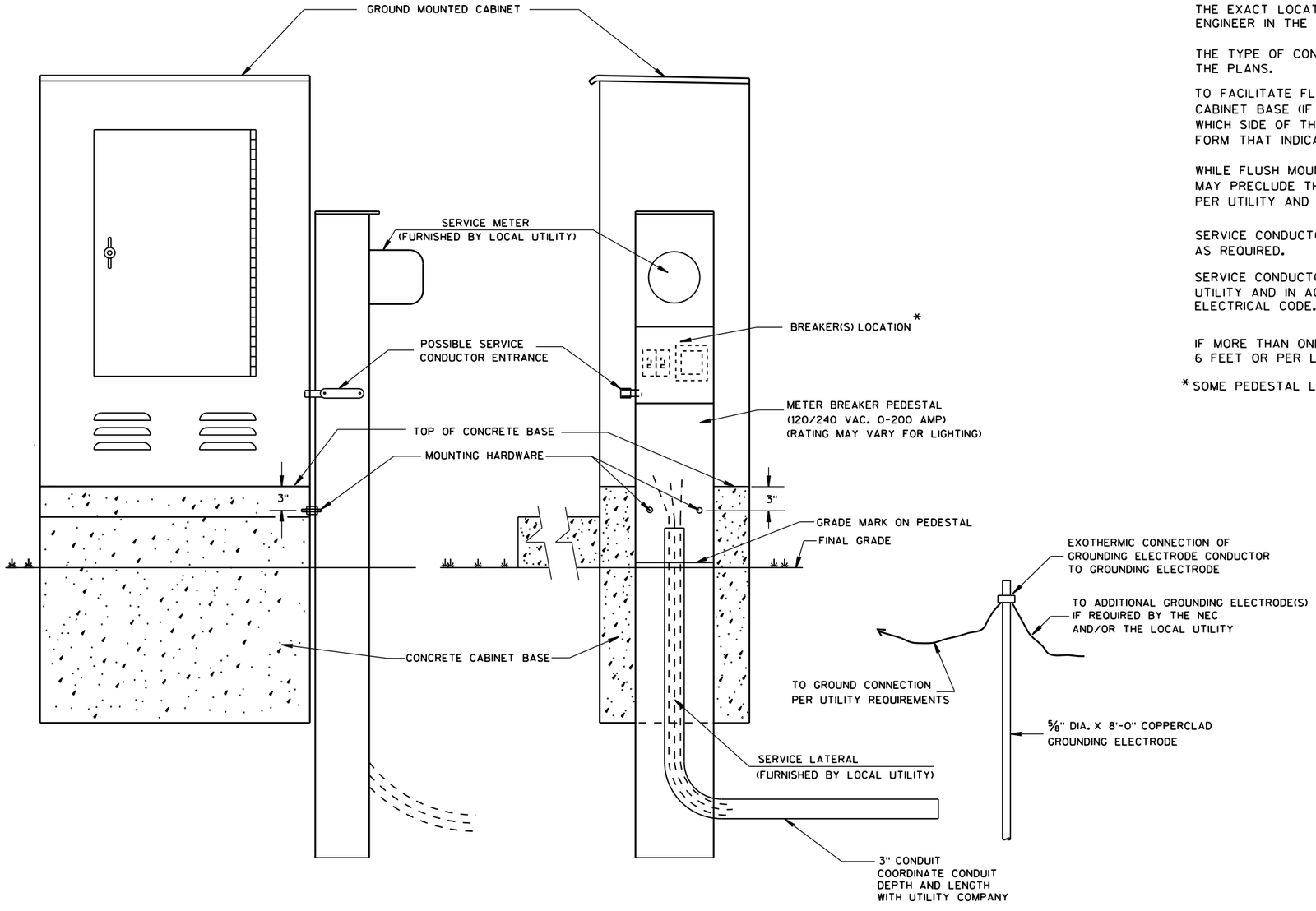
S.D.D. 9 C 12-9b

S.D.D. 9 C 12-9b

CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

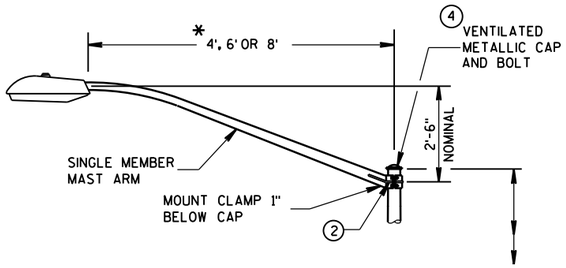
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

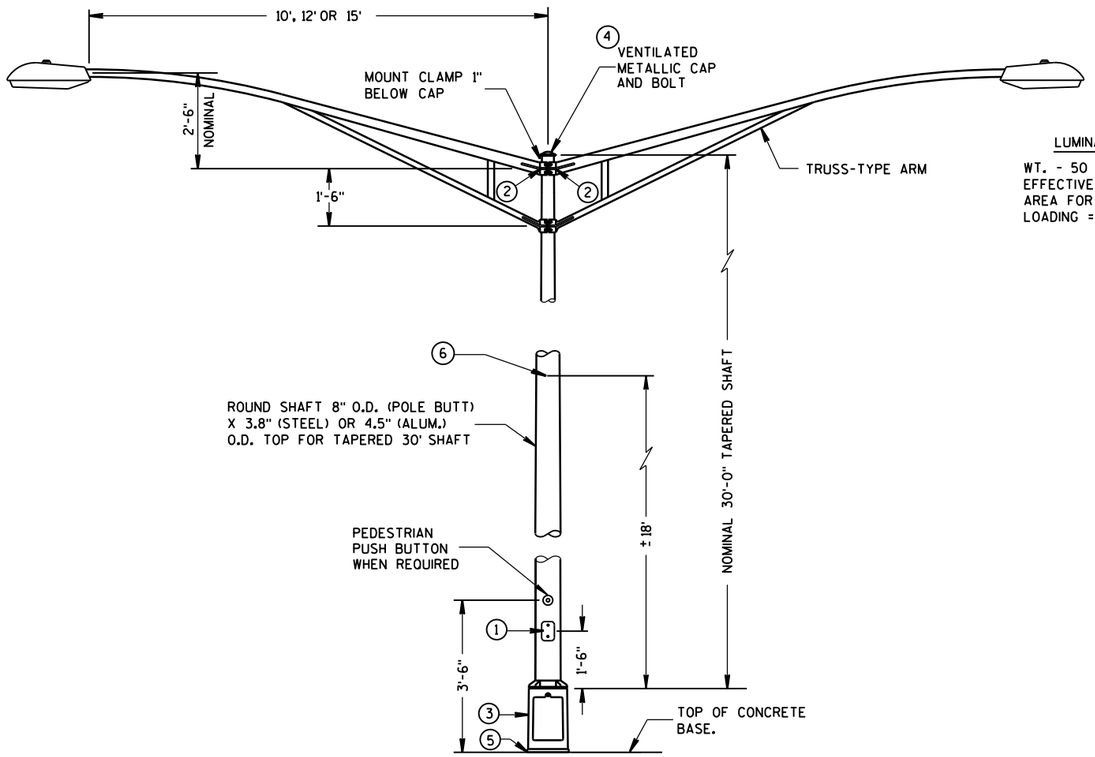
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

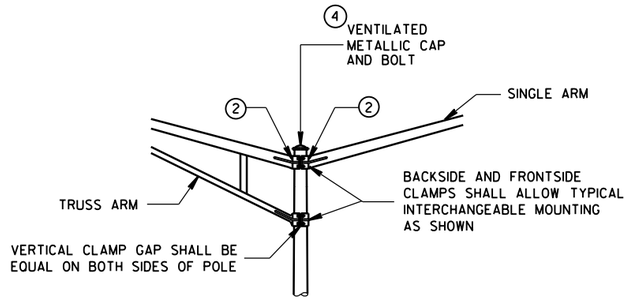
6
S.D.D. 9 D 1-5

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

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S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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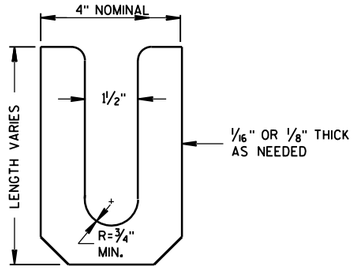
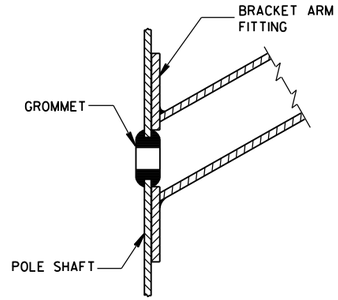
S.D.D. 9 E 1-14d

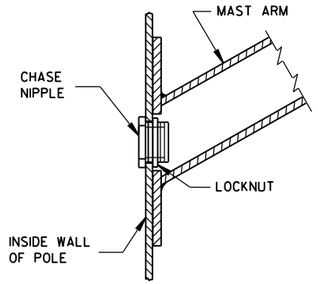


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

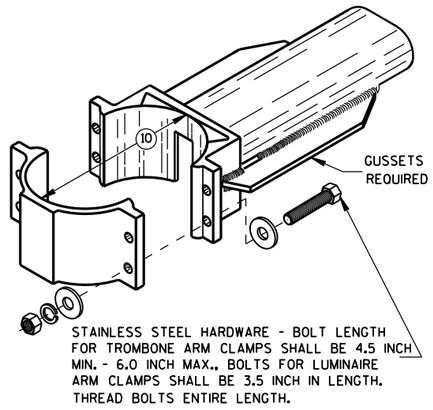
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

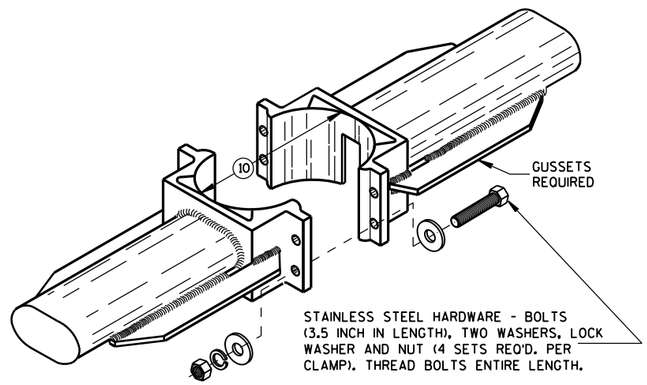
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

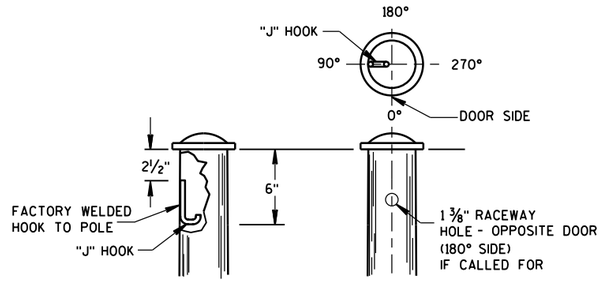
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



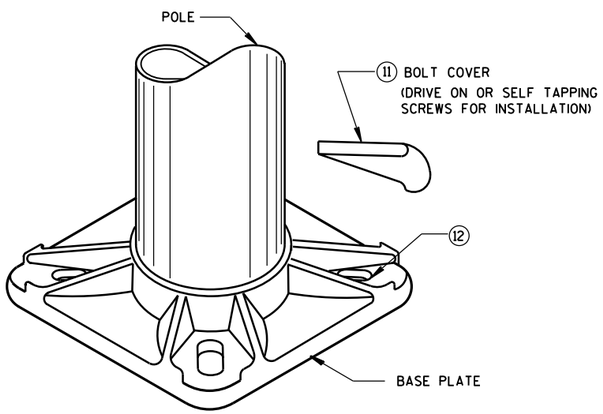
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



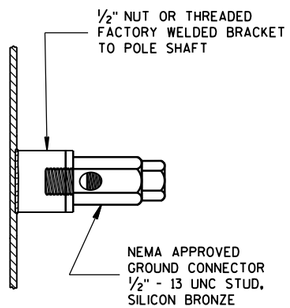
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

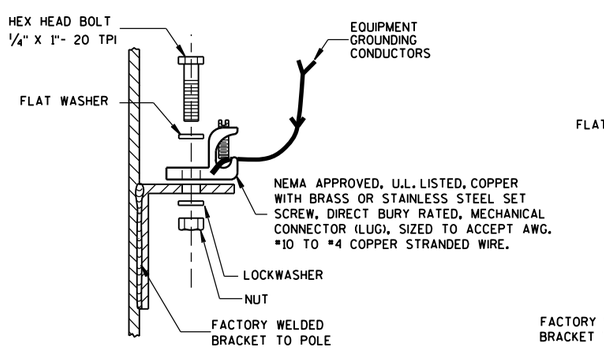


TYPICAL "J" HOOK LOCATION



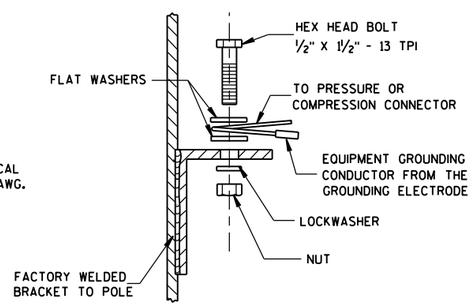
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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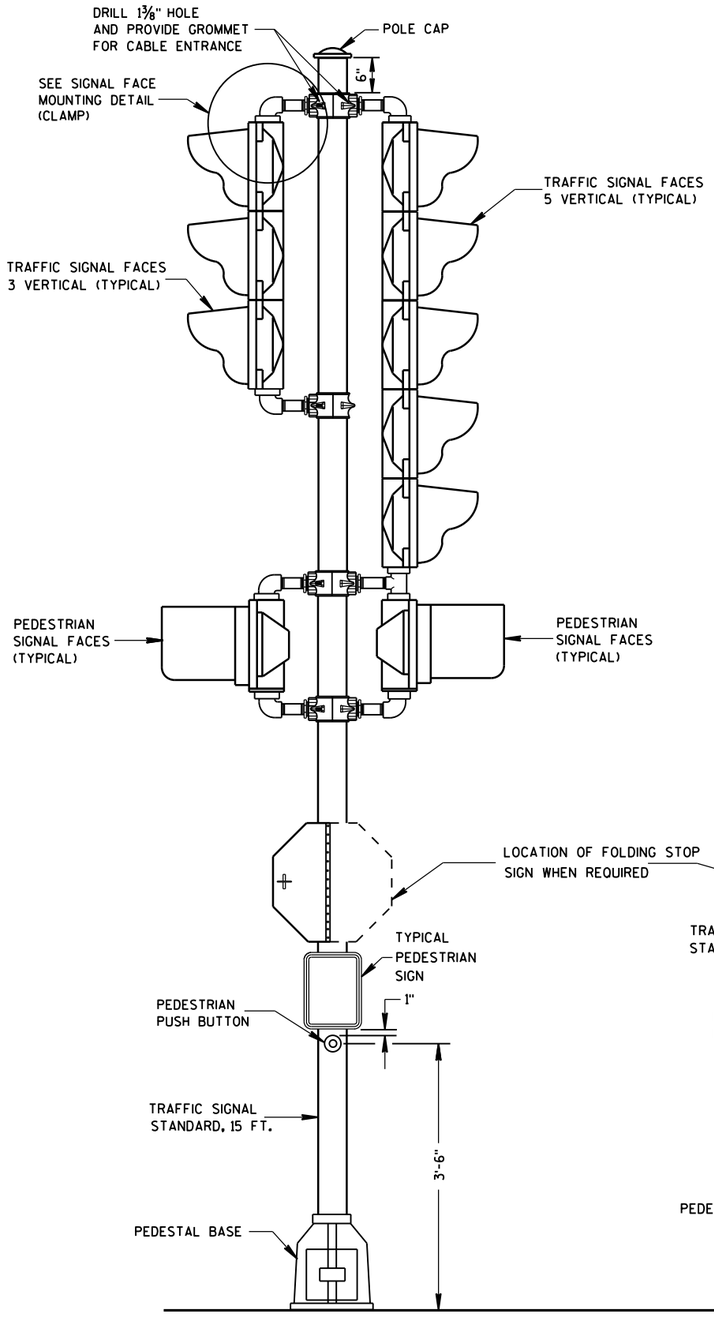
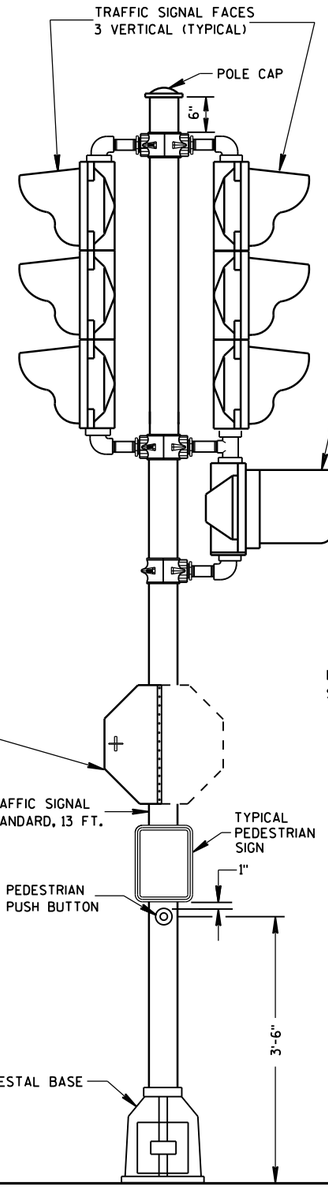
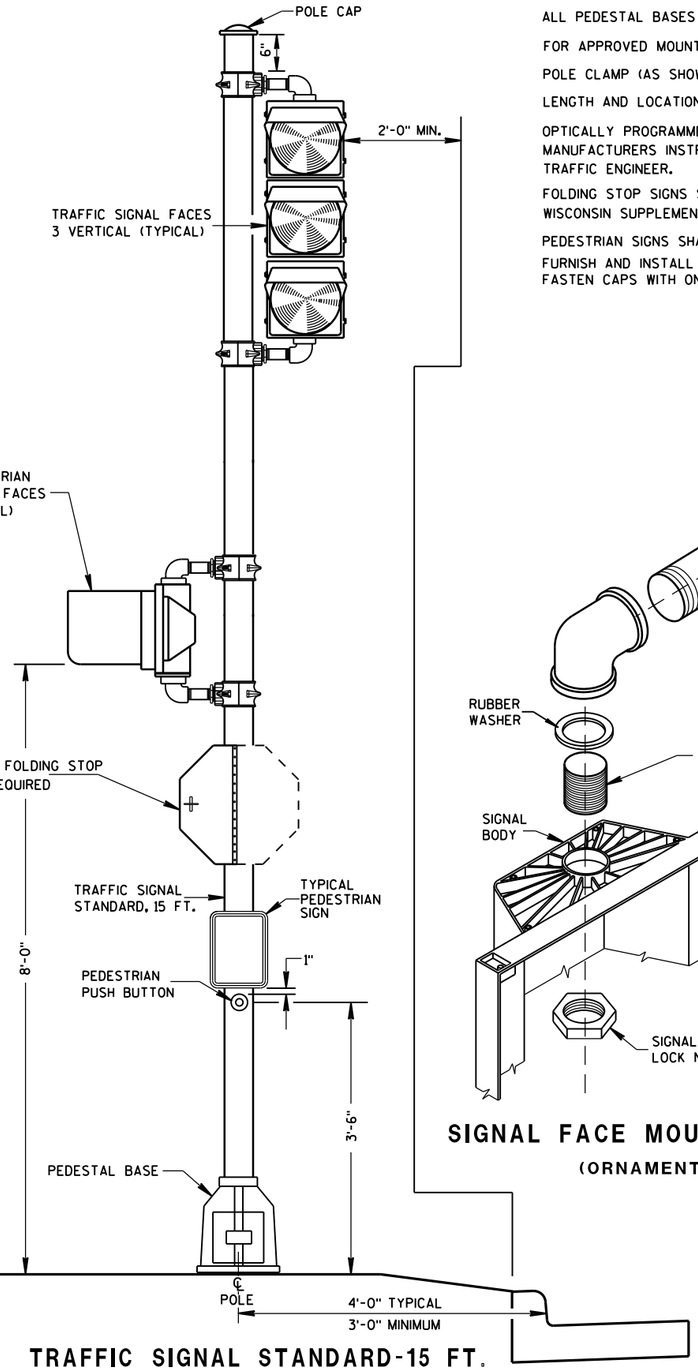


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLE CLAMP (AS SHOWN) MOUNTING BRACKETS SHALL BE USED.

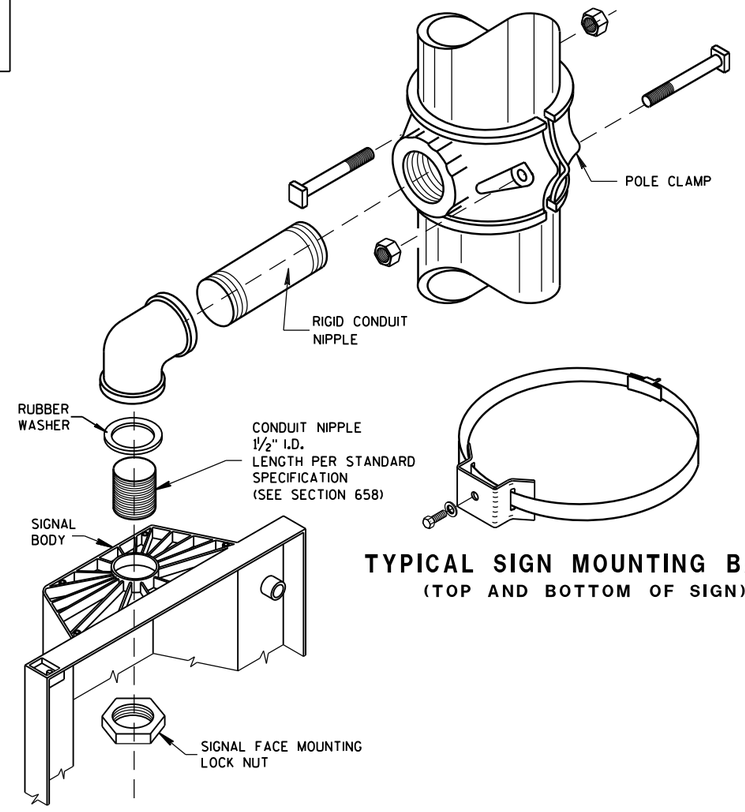
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(ORNAMENTAL)

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)

TRAFFIC SIGNAL STANDARD
ORNAMENTAL BRACKET MOUNTINGS
TYPICAL FOR 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013 DATE
/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA

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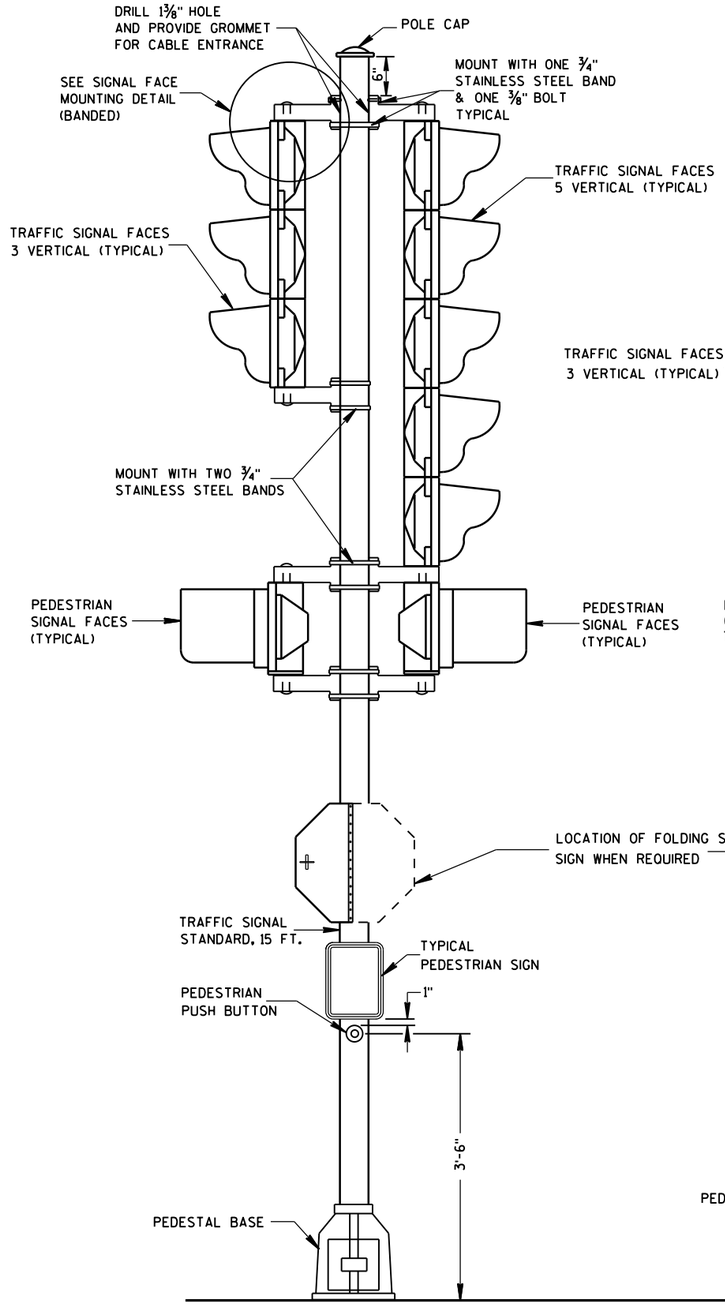
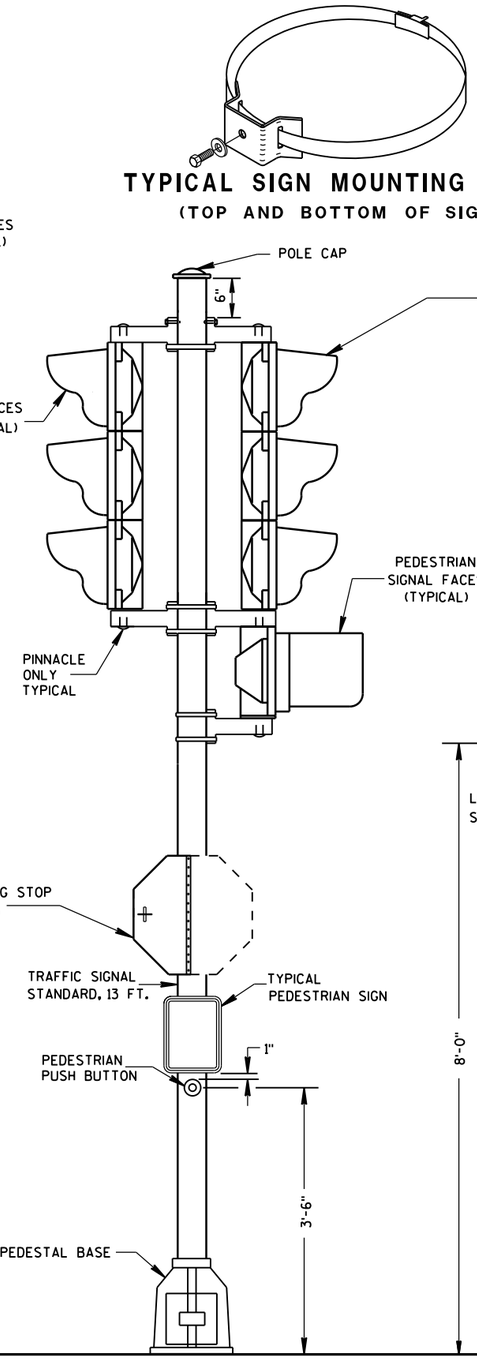
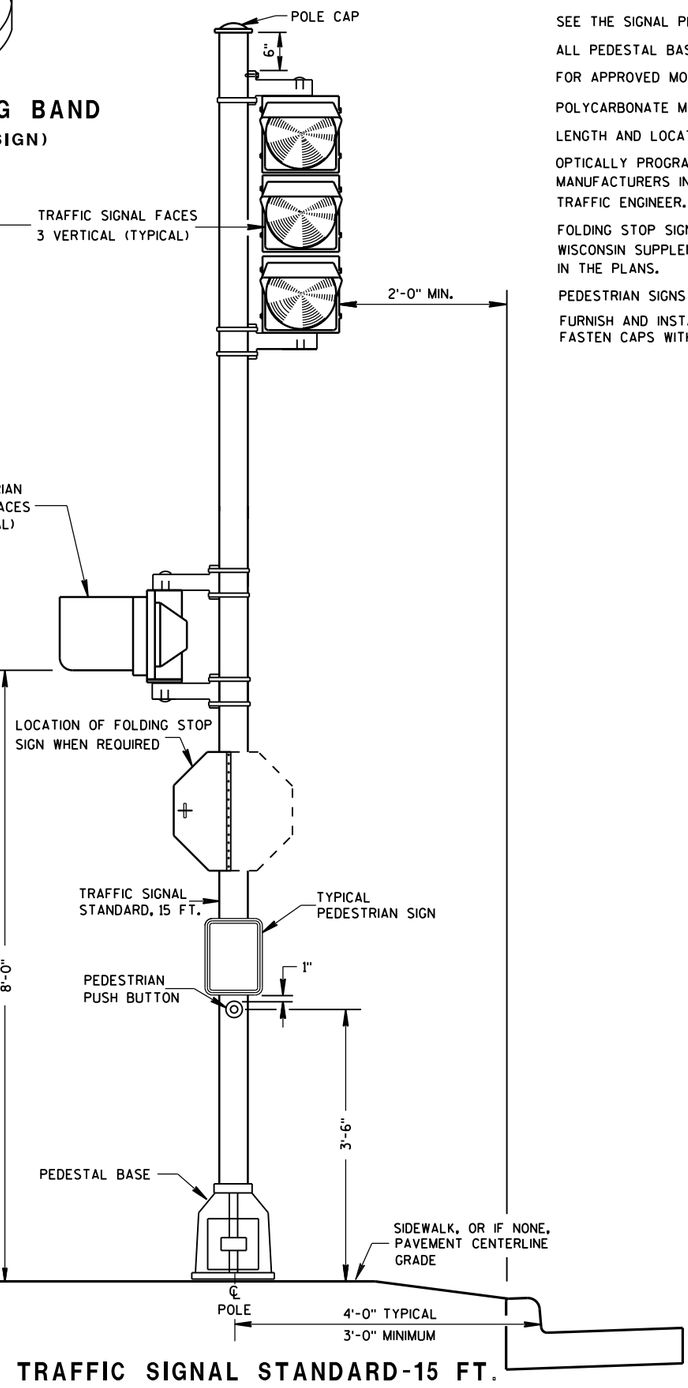


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

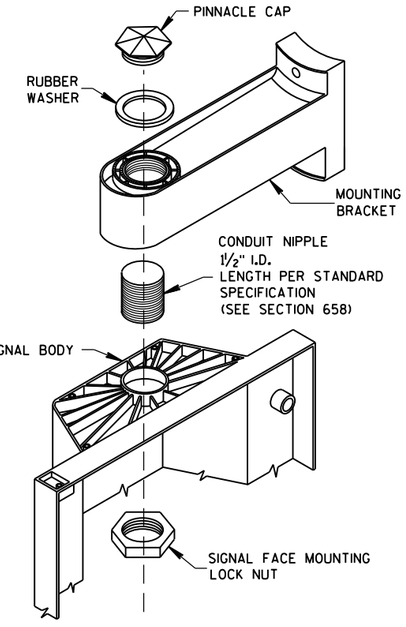
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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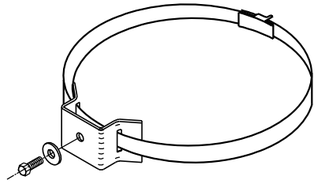
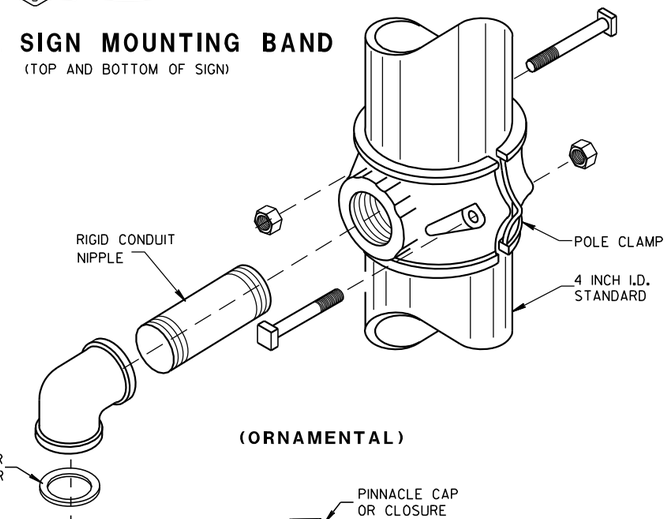
S.D.D. 9 E 6-5



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



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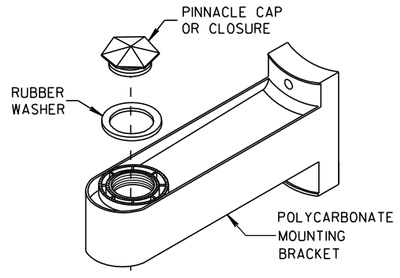

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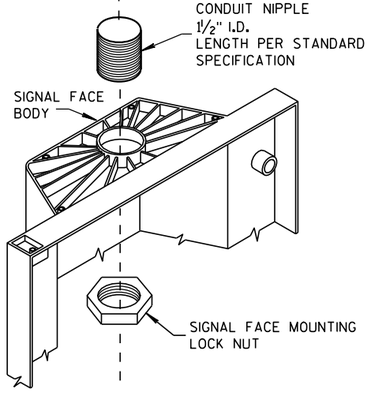
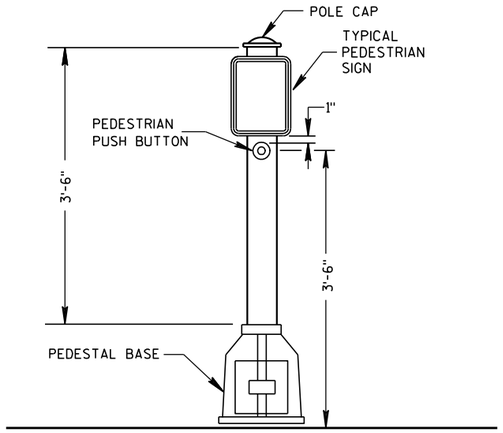


SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

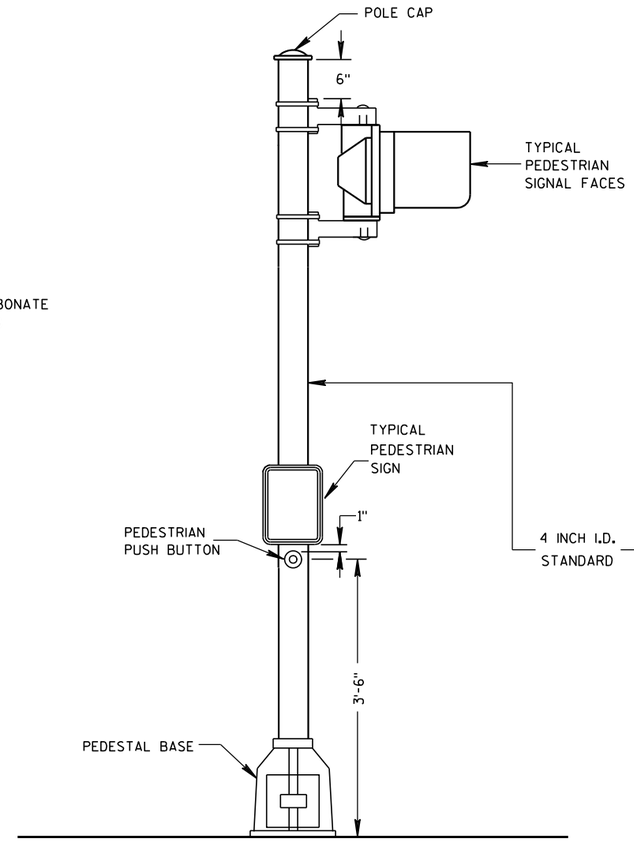
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

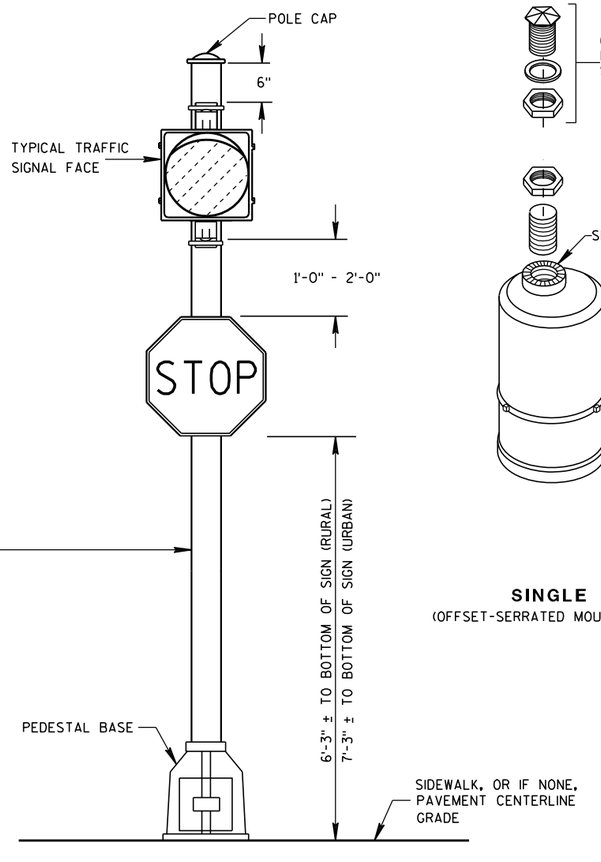
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

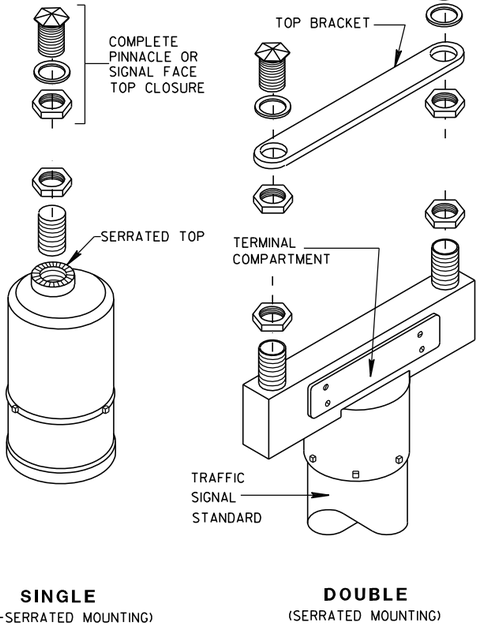
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

FHWA

HWYS

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S.D.D. 9 E 7-5

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S.D.D. 9 E 7-5

30'-0" MAX.

8'-0" *

15'-0" MAX.

SEE ARM CONNECTION DETAIL

SIGN 18" X 108"

**

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

25'-6" MAXIMUM MOUNTING HEIGHT

17'-6" MINIMUM MOUNTING HEIGHT

ROADWAY PAVEMENT

R4-7
24" x 30"

FOLDING STOP SIGN
30" x 30"

19'-0"

10'-0"

POLE: (.14"/FT. TAPER)
1 PIECE (NO WELDED POLE SECTIONS)
POLE BUTT DIA. = 11.50"

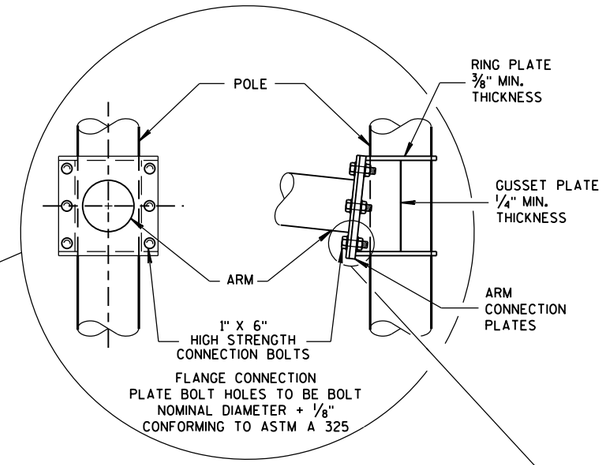
TYPICAL PEDESTRIAN SIGN

PEDESTRIAN PUSH BUTTON

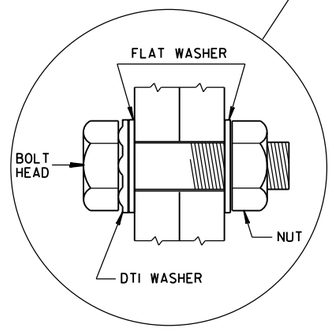
ANCHOR RODS:
FY=55 KSI
ASTM F1554 GR 55
ROD CIRCLE = 15"
ANCHOR ROD DIAM. 1½"
GALVANIZED. (6 ANCHOR RODS)

3'-6"

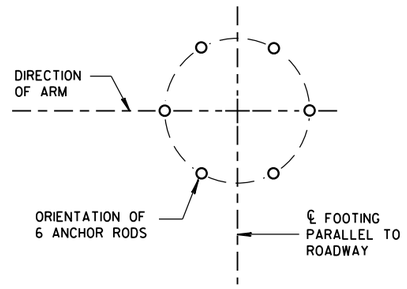
MAXIMUM BASE PLATE THICKNESS = 2½"



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2016 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL 454
FHWA	

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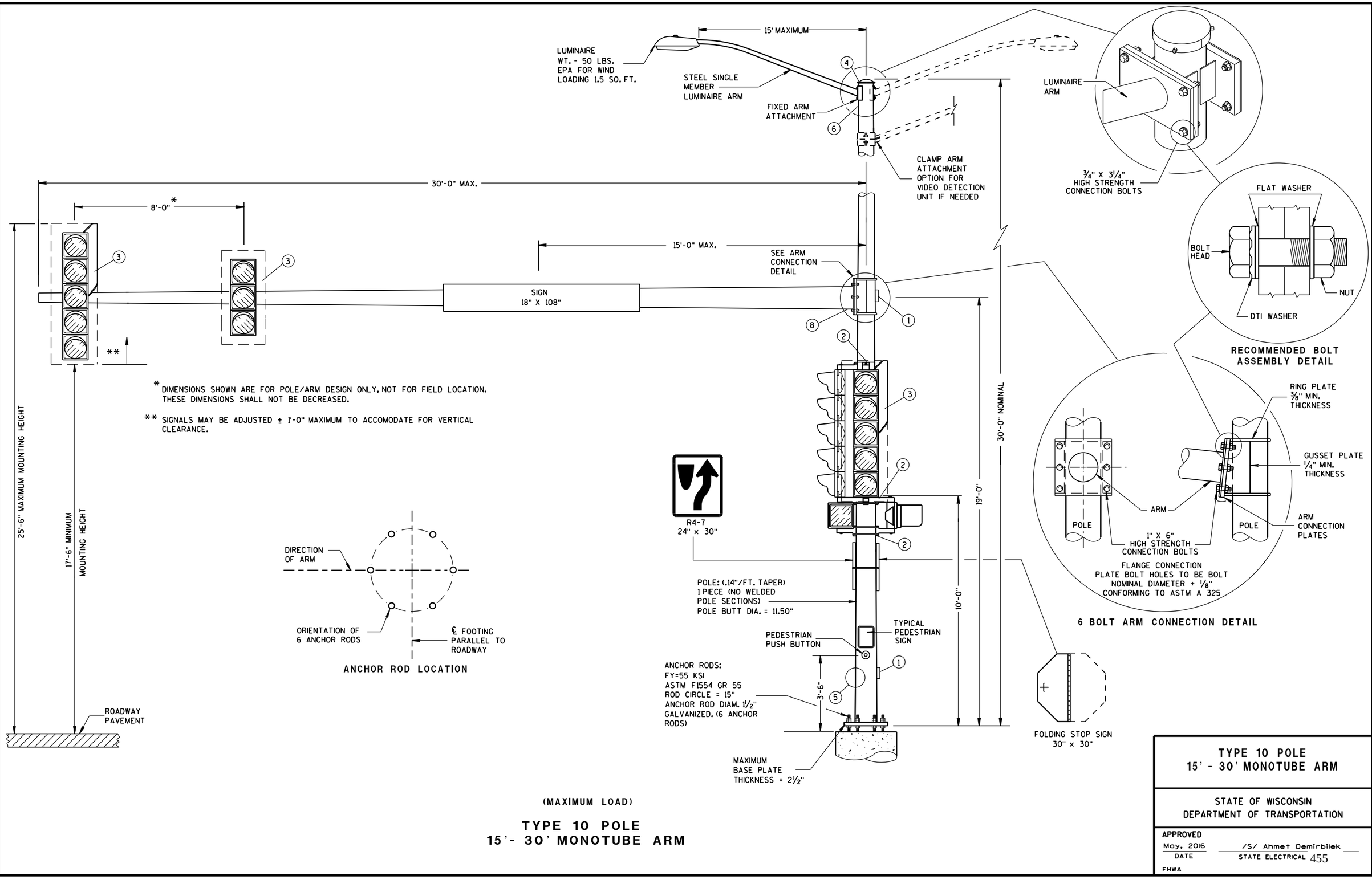
S.D.D. 9 E 8-8a



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
455
FHWA

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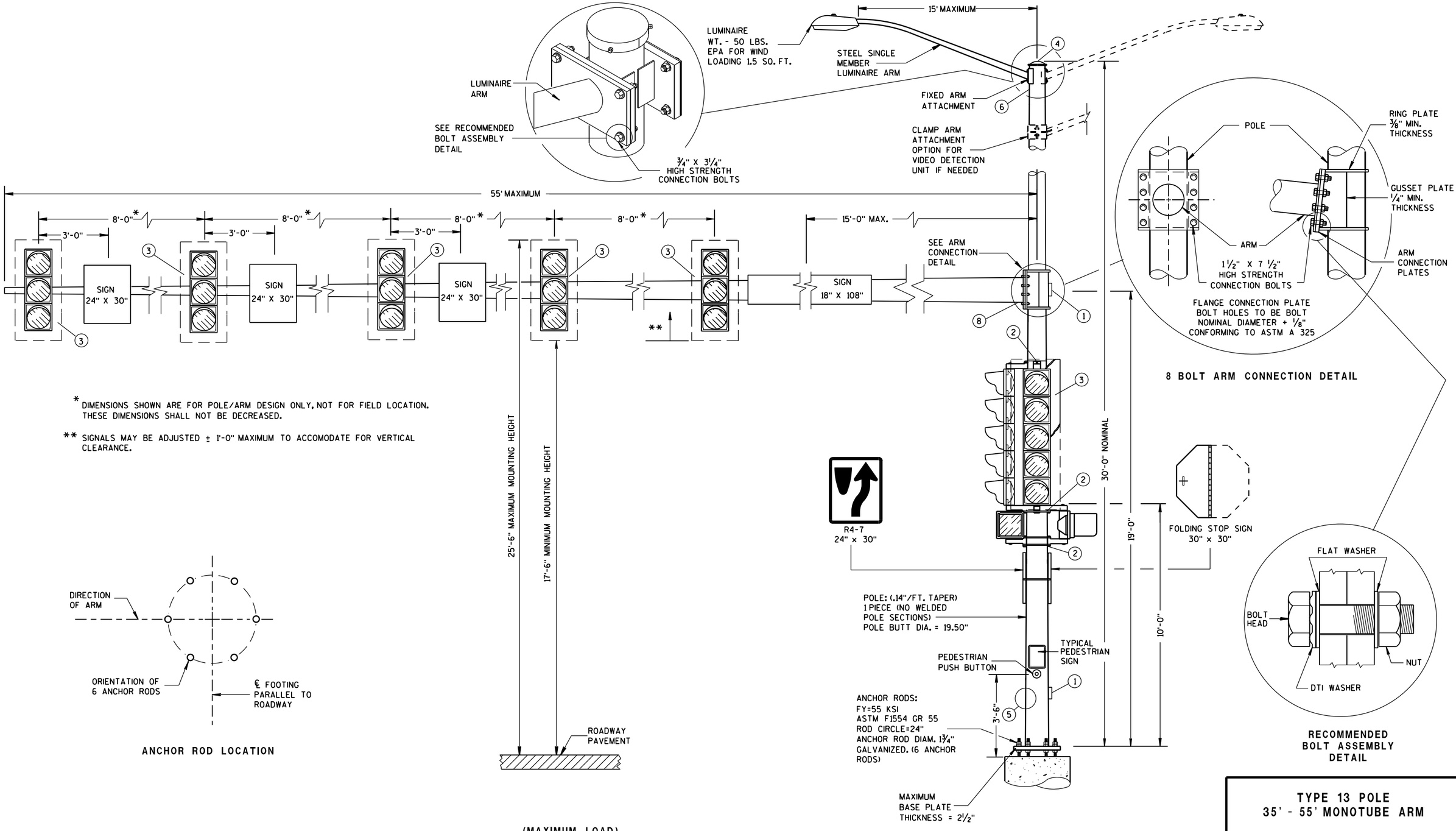
S.D.D. 9 E 8-8b



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

8 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 13 POLE 35'- 55' MONOTUBE ARM

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

OVER HEIGHT POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

OVER HEIGHT POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING 2017 INTERIM REVISIONS) AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

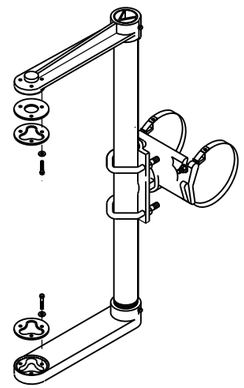
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

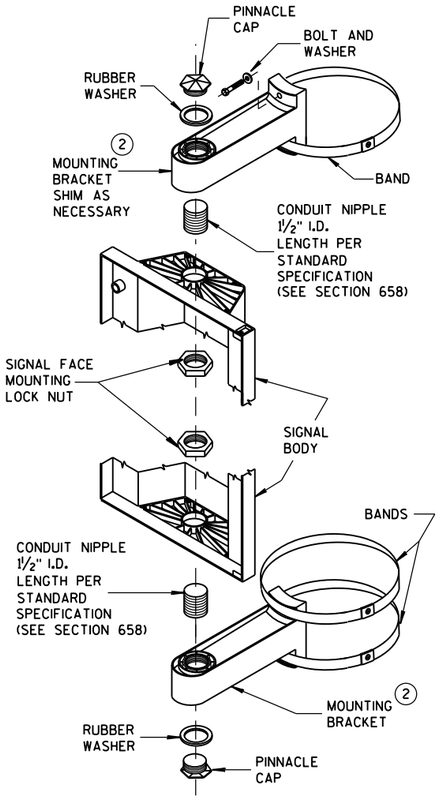
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

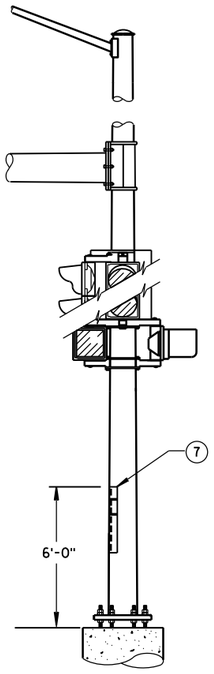


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

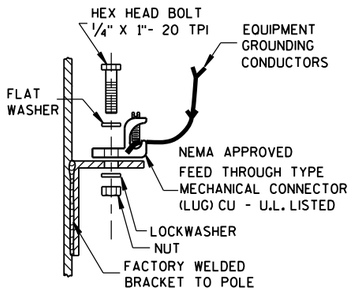
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

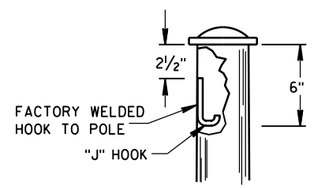


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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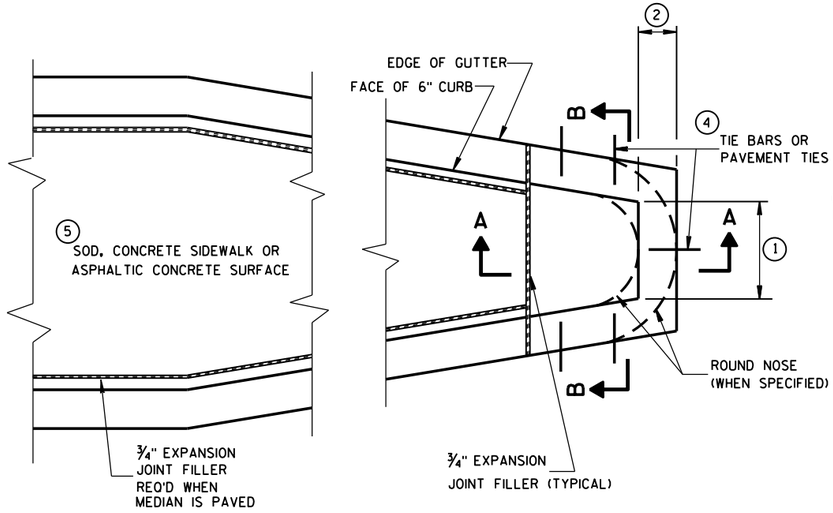
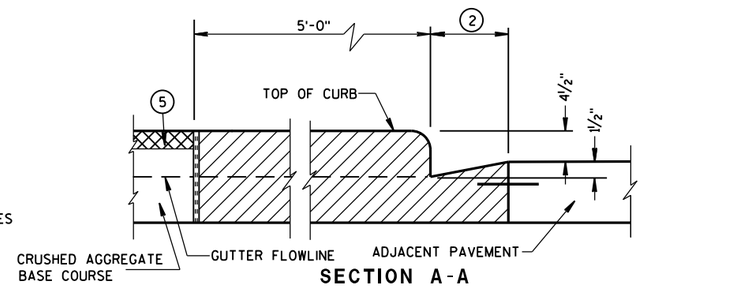
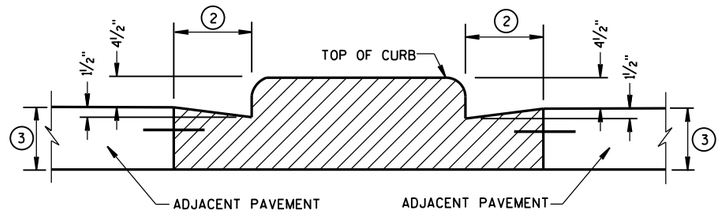
S.D.D. 9 E 12-1e







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

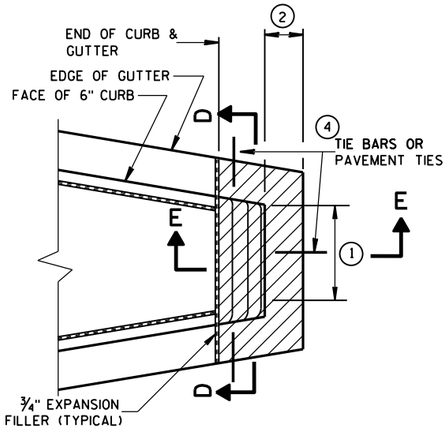
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

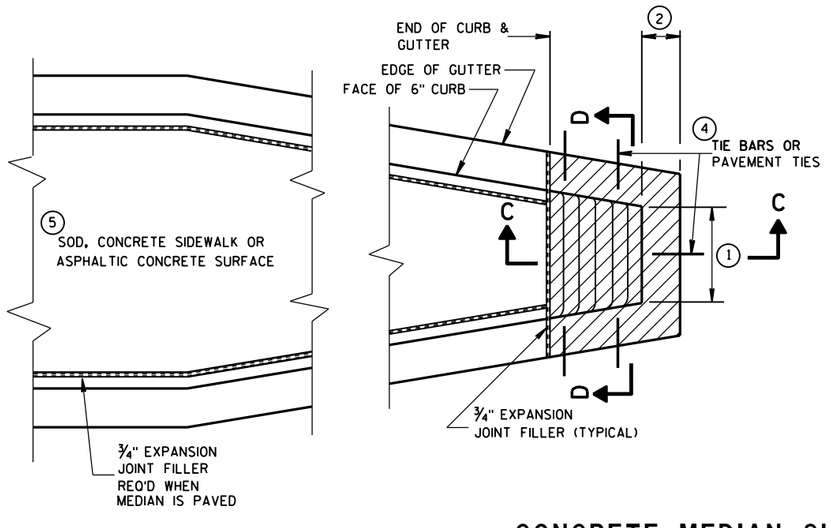
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

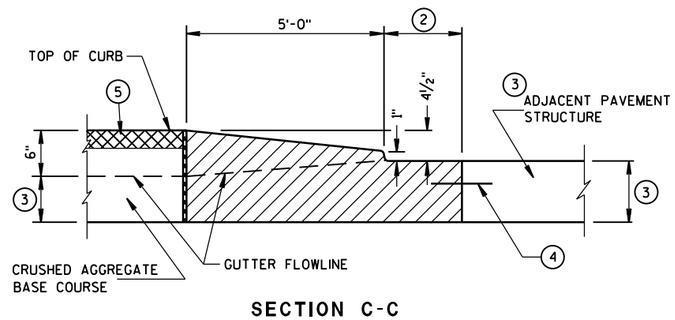
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

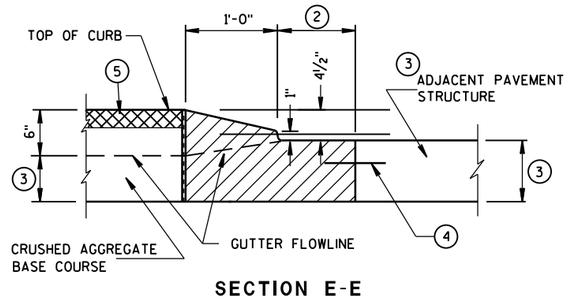
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



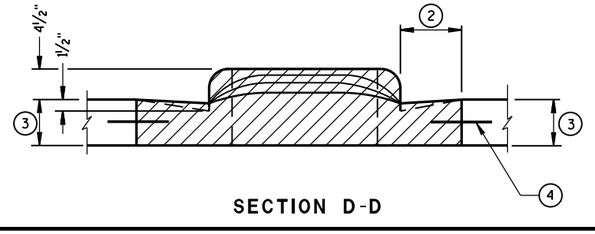






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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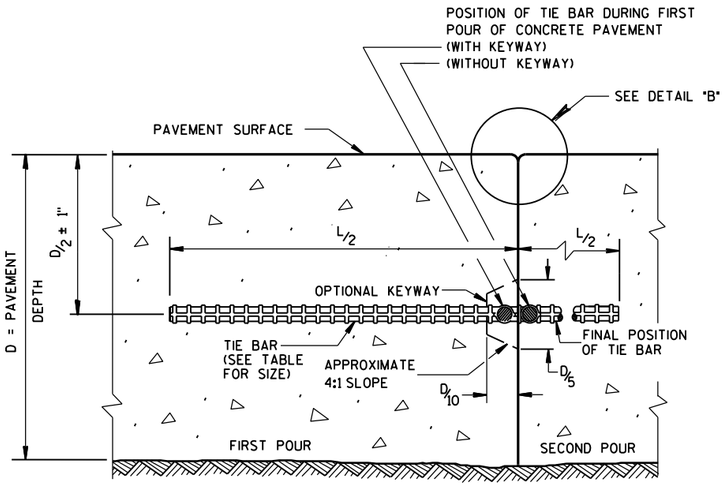
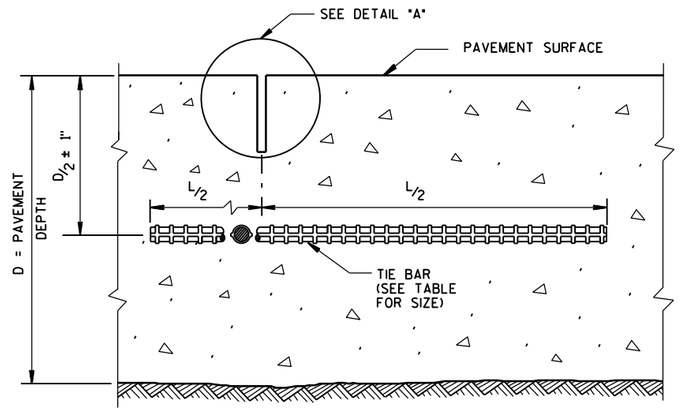
S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

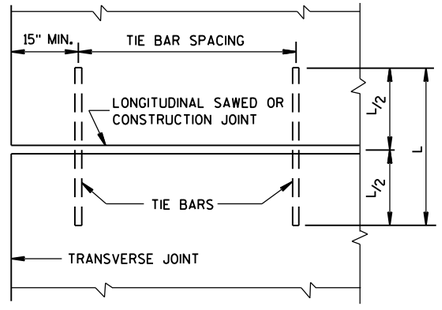
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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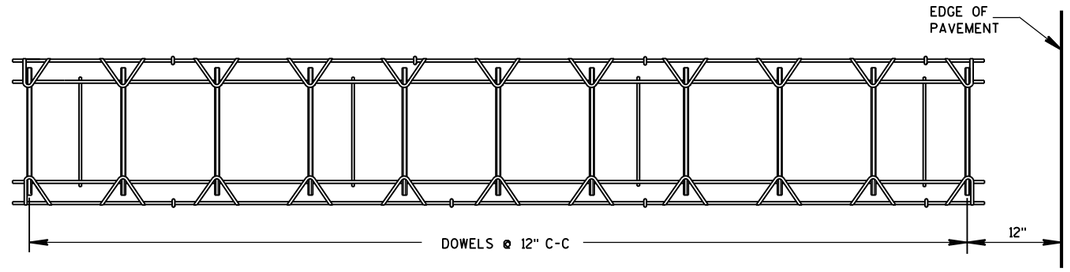
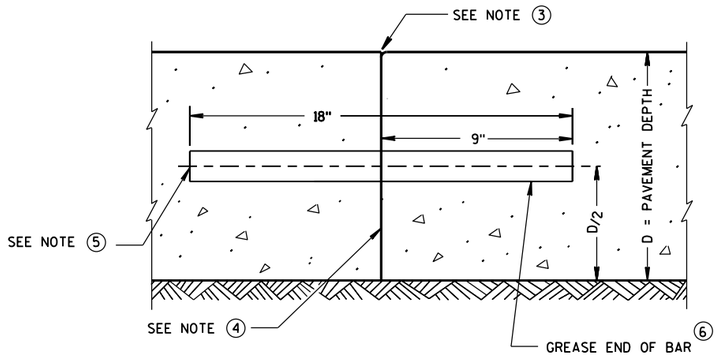
S.D.D. 13 C 1-18



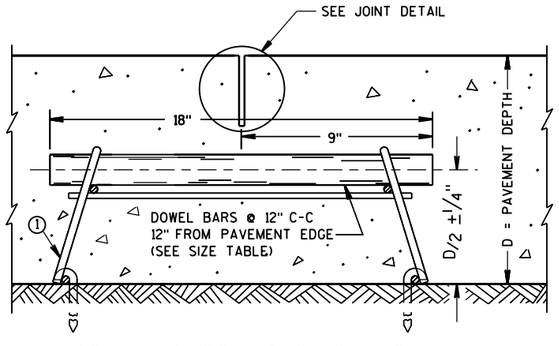
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



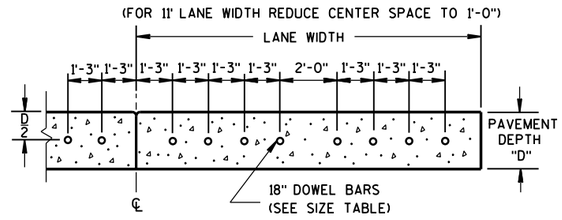
TRANSVERSE CONSTRUCTION JOINT



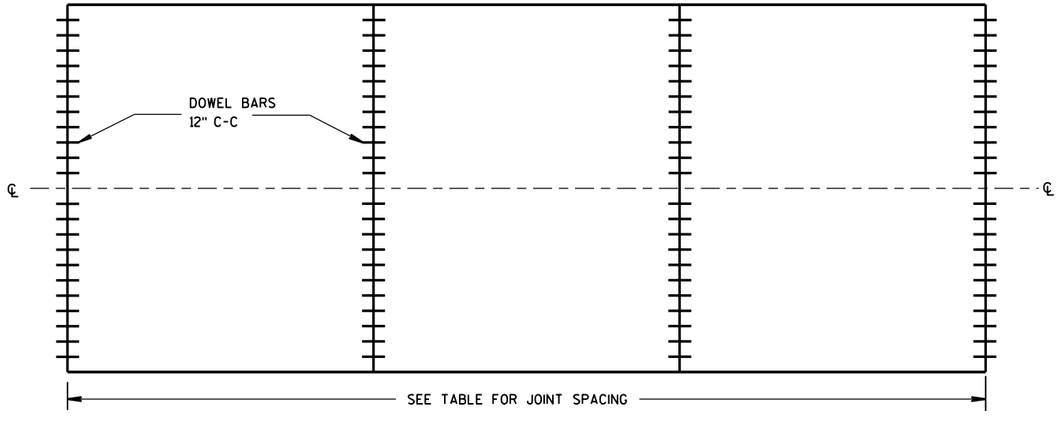
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

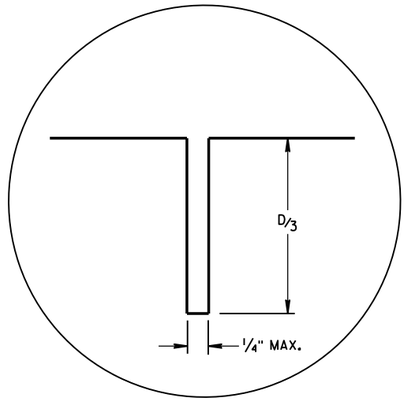
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

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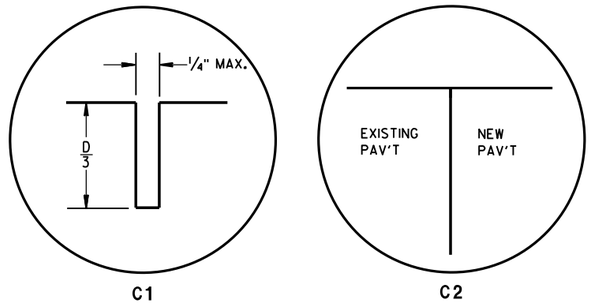
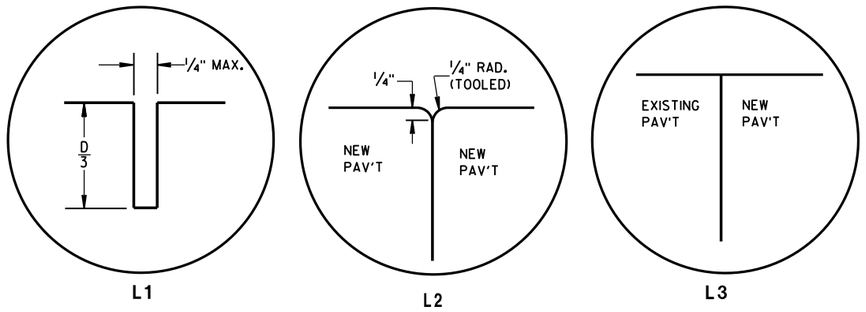
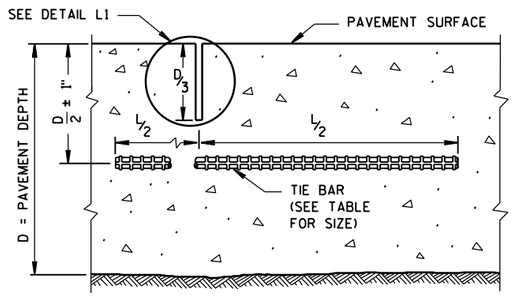


TRANSVERSE JOINTS

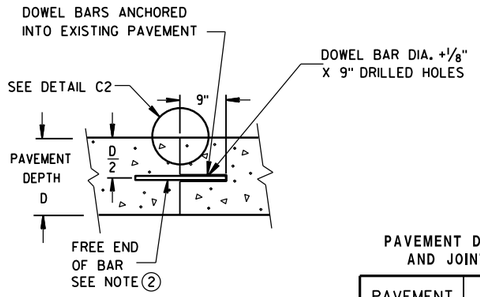


LONGITUDINAL JOINTS



SECTION C-C

SAWED JOINT



SECTION D-D

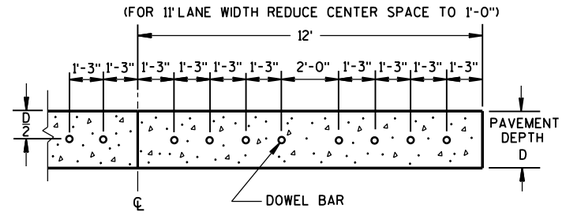
GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

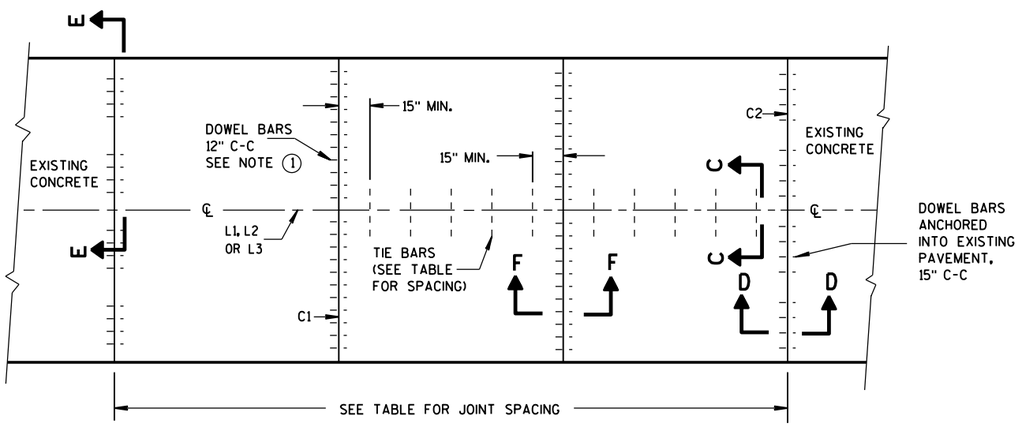
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5½", 6, 6 ½"	NONE	12'
7, 7 ½"	1"	14'
8, 8 ½"	1 ¼"	15'
9, 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

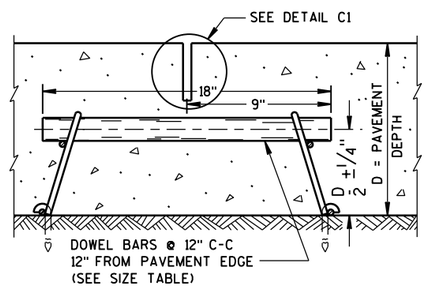
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW

CONCRETE BASE CONTRACTION JOINT LOCATIONS



SECTION F-F

CONTRACTION JOINT

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 13 C 15-6a

6

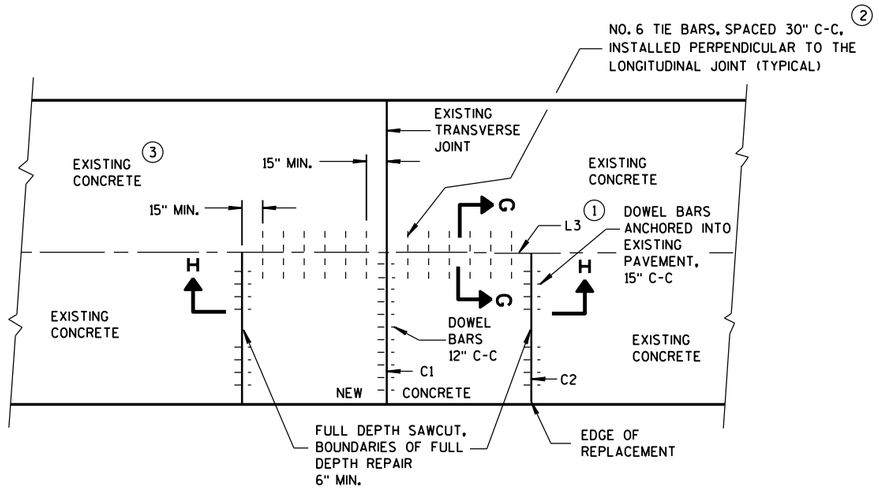
S.D.D. 13 C 15-6a

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.

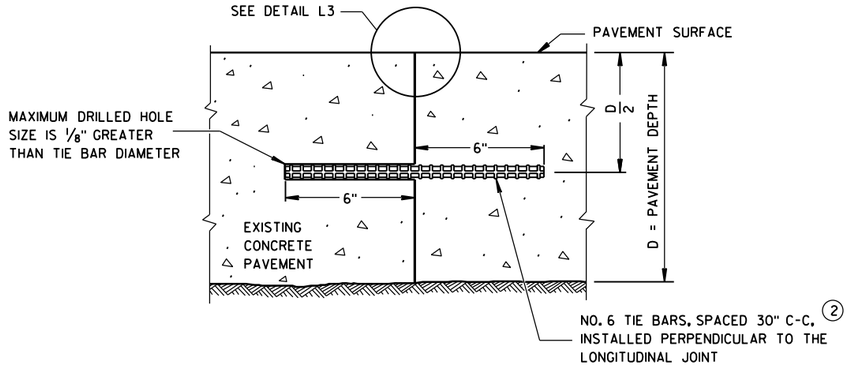
(2) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(3) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



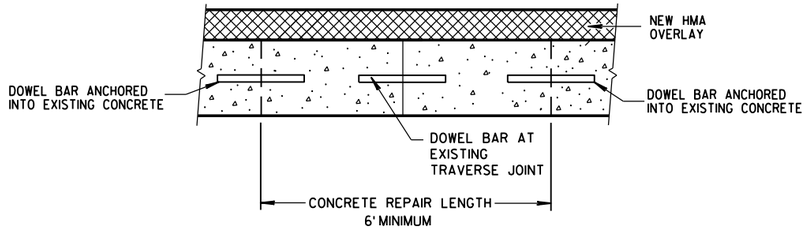
PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEI
FHWA

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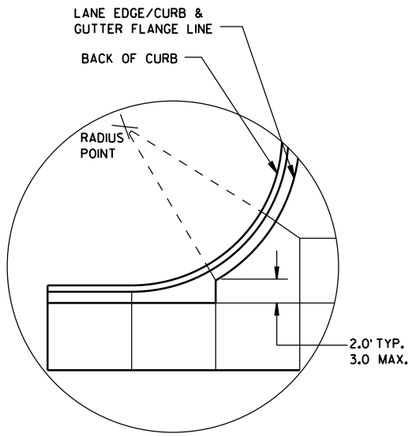
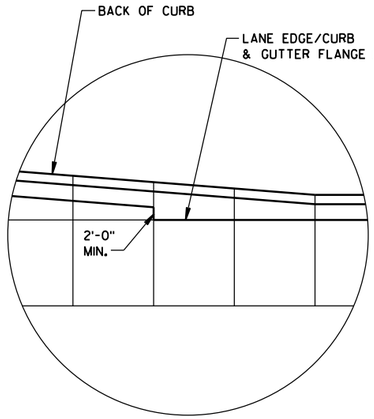
S.D.D. 13 C 15-6b

6

S.D.D. 13 C 15-6b



DETAIL "A"



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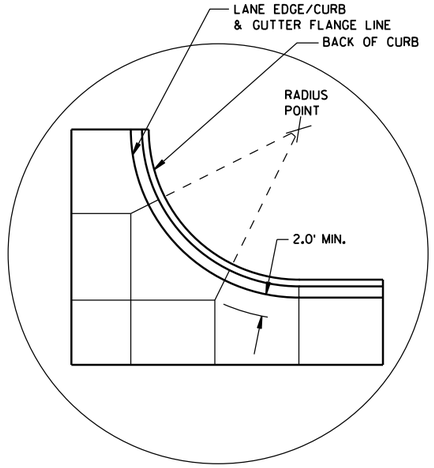
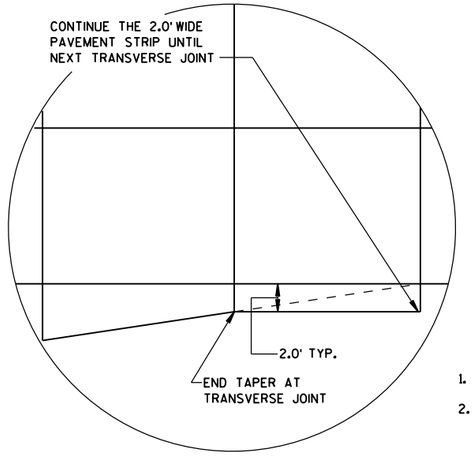


DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

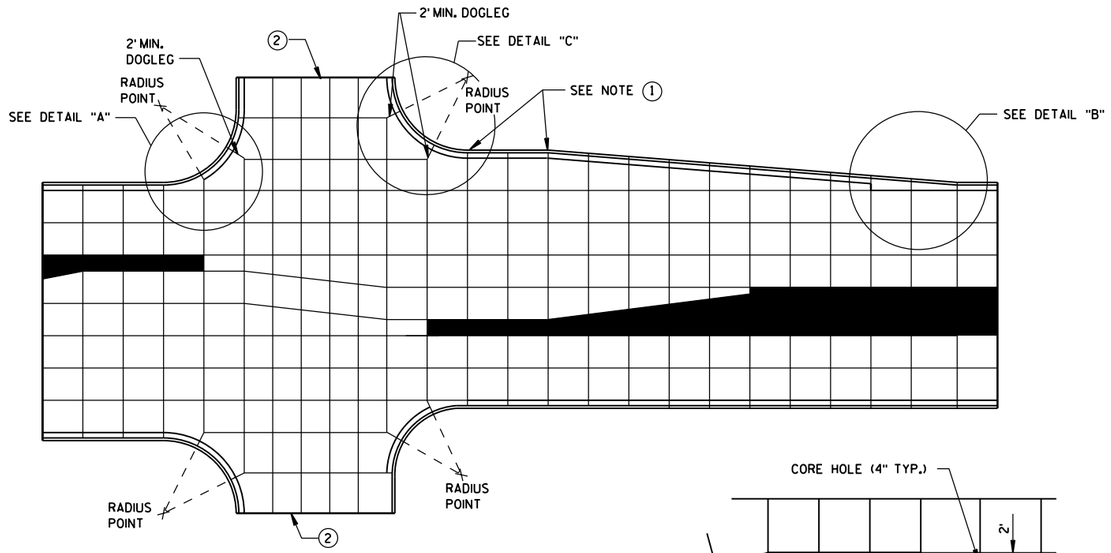
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

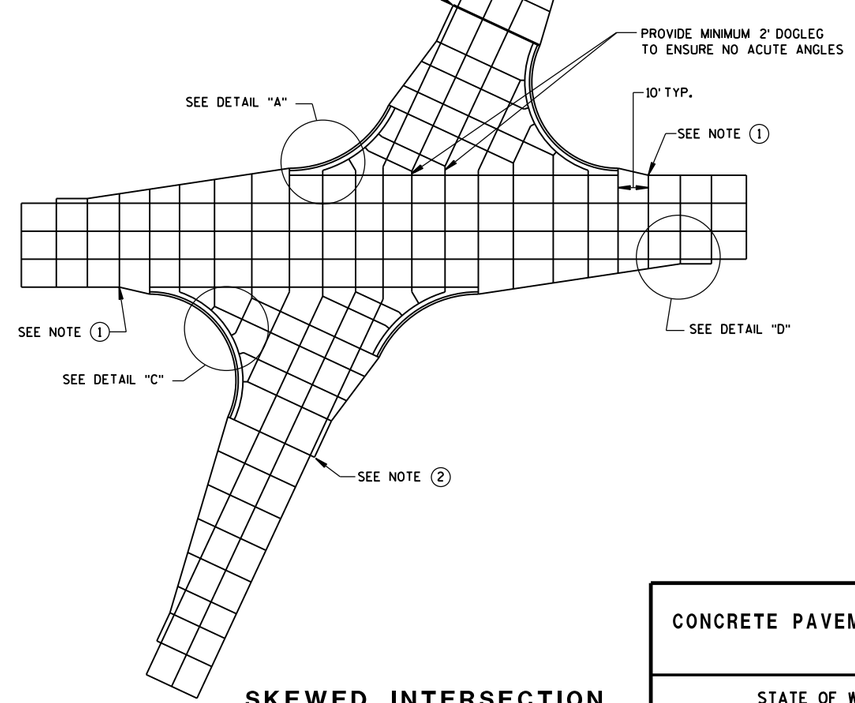
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



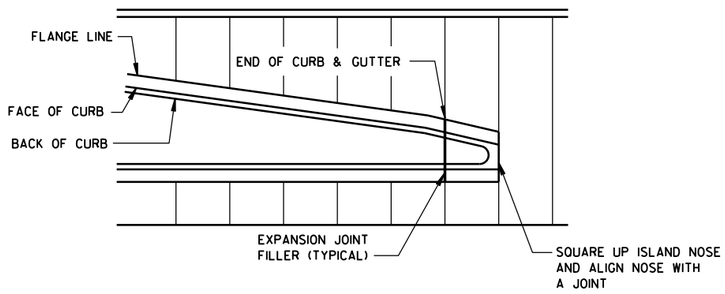
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

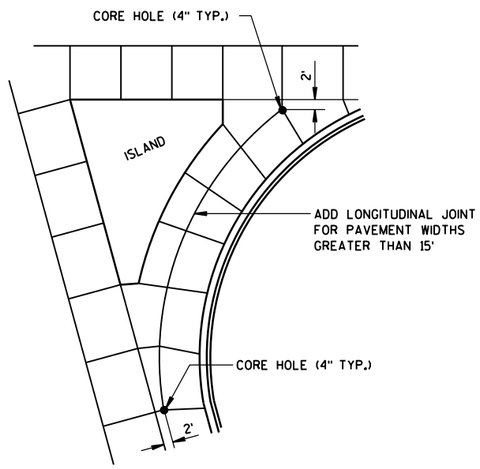
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

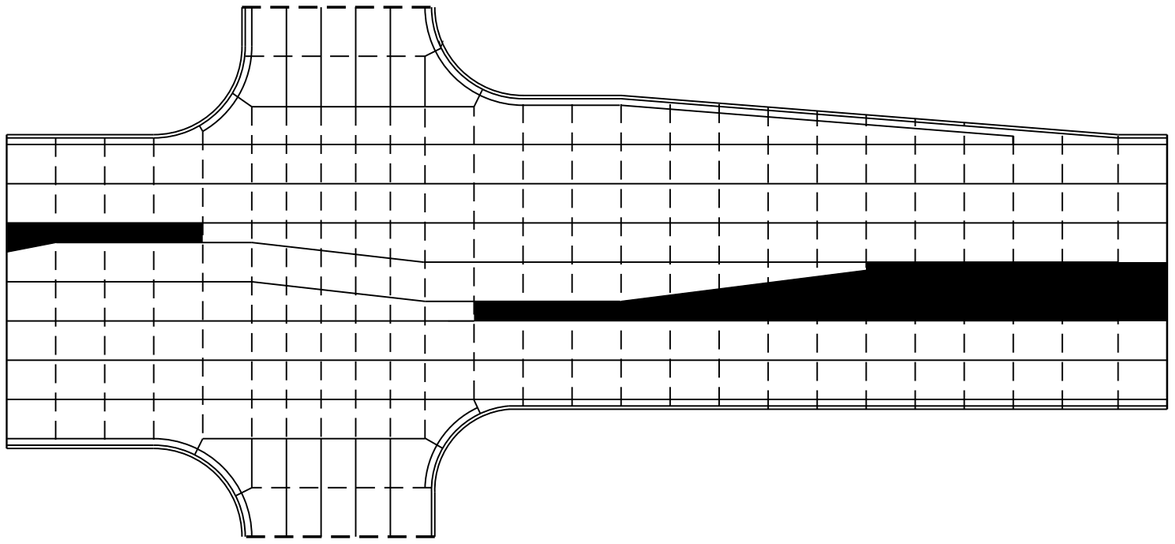
S.D.D. 13 C 18-5a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

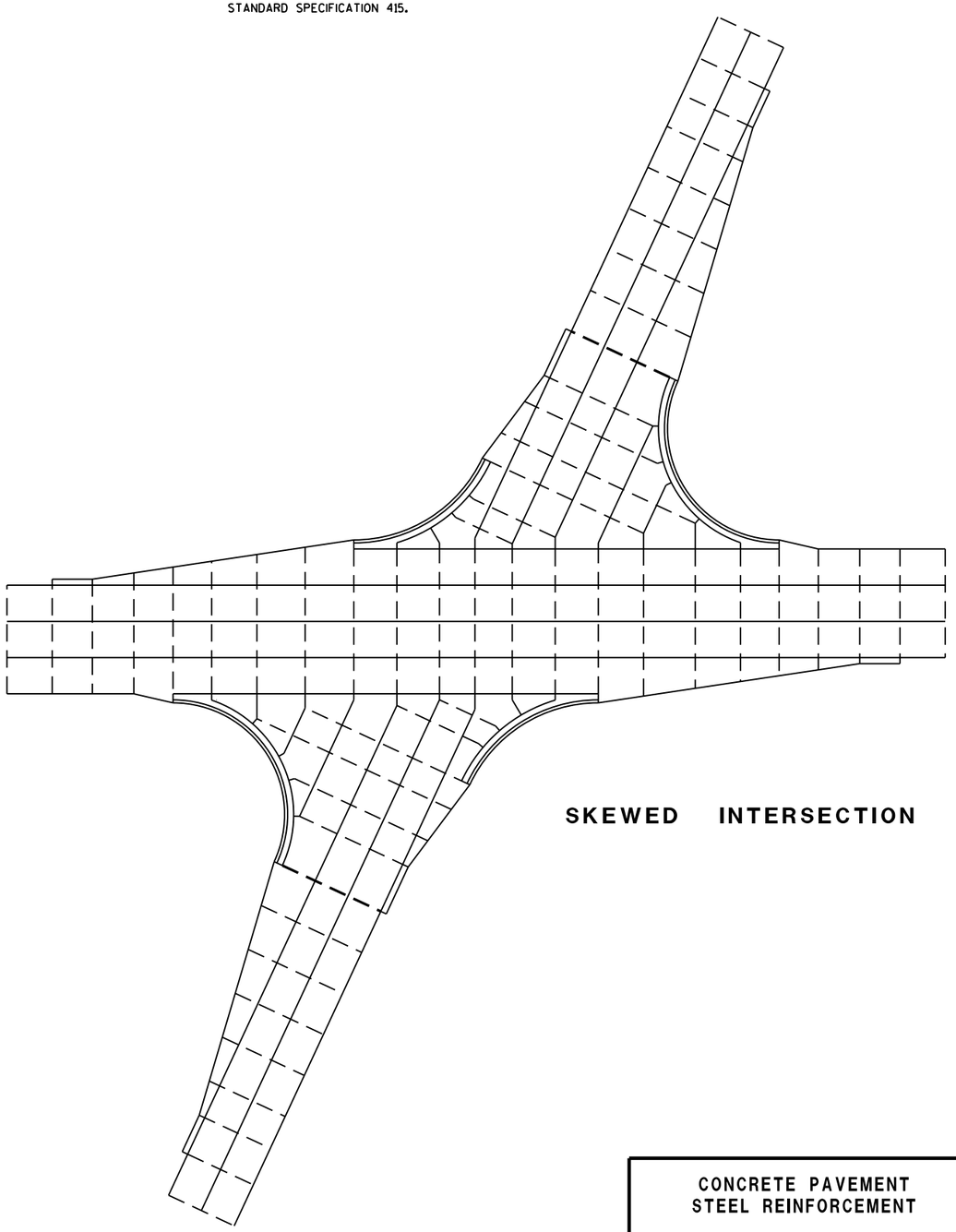
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

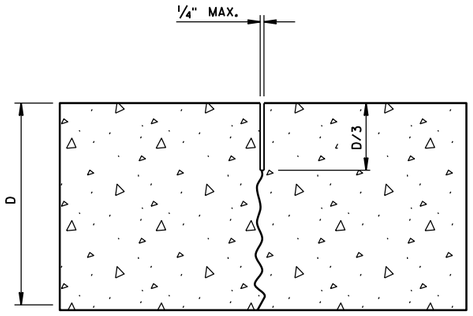
S.D.D. 13 C 18-5b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

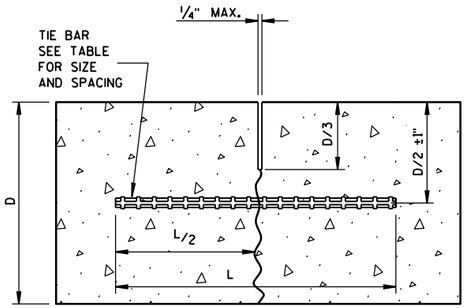
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 C 18-5b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

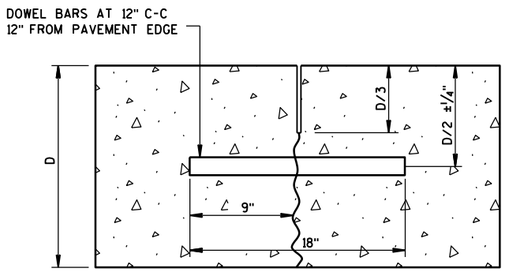
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

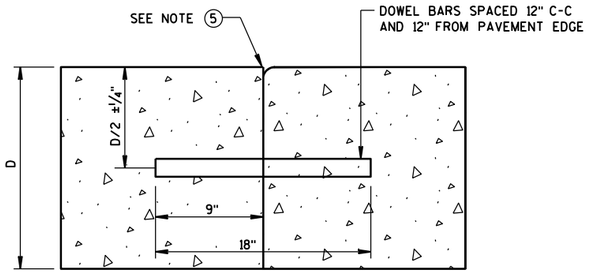
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



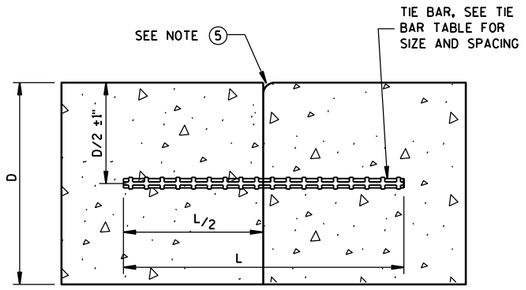
DOWELED-TRANSVERSE

CONTRACTION JOINTS

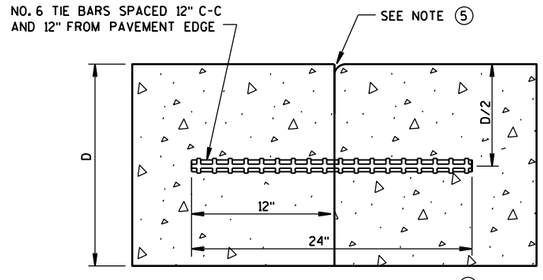
SEE NOTE (2)



DOWELED TRANSVERSE (3)

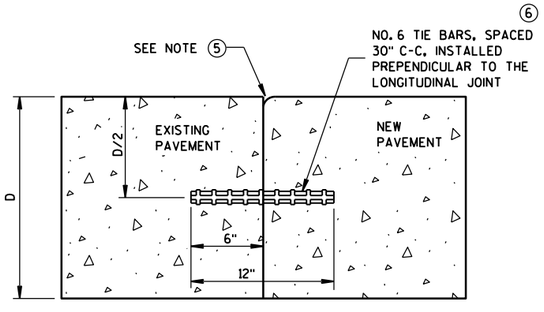


TIED LONGITUDINAL



TIED TRANSVERSE (3)

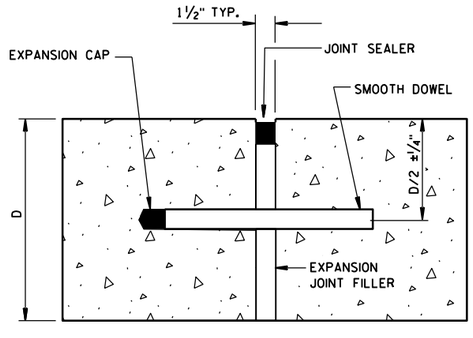
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

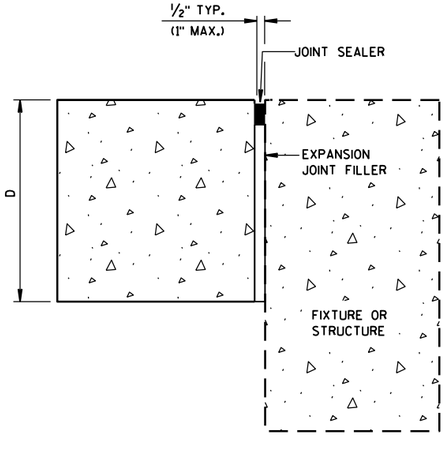
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

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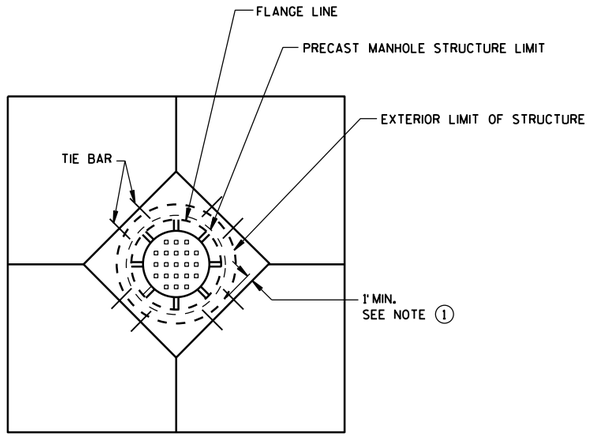
S.D.D. 13 C 18-5c

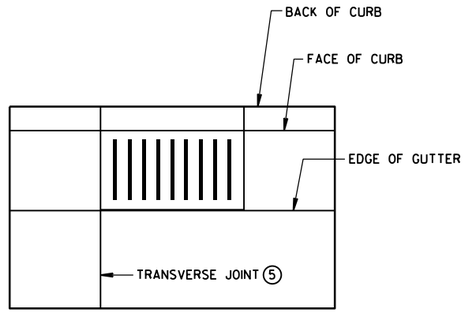
S.D.D. 13 C 18-5c

CONCRETE PAVEMENT
JOINT TYPES

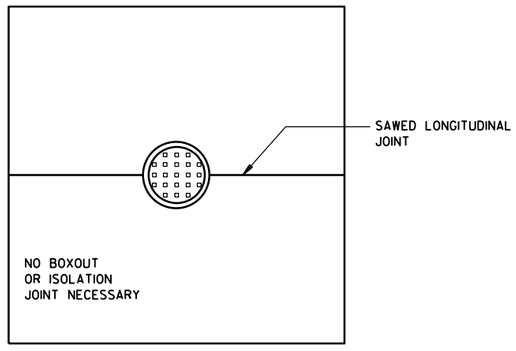
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



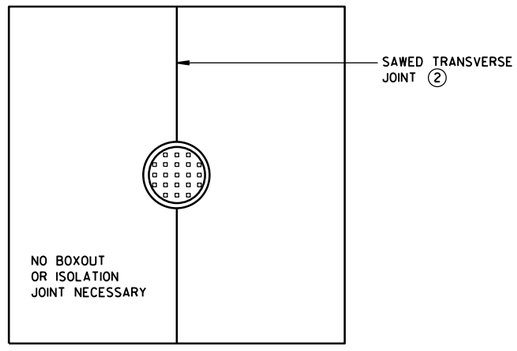
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



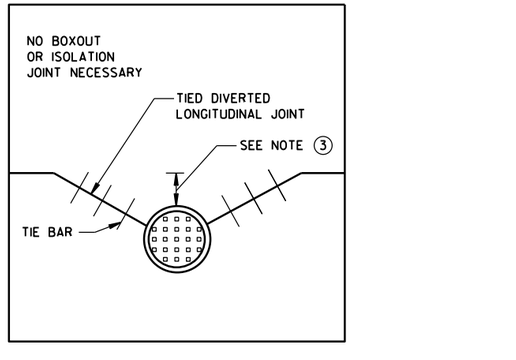
INLET WITH TRANSVERSE JOINT



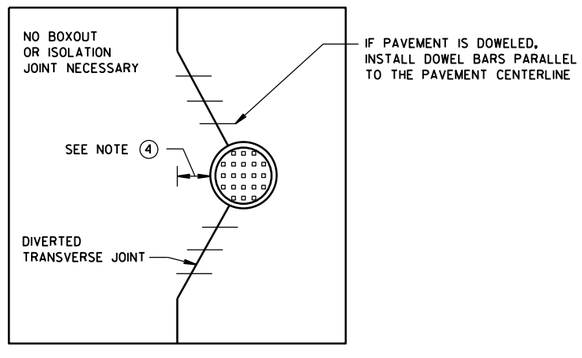
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

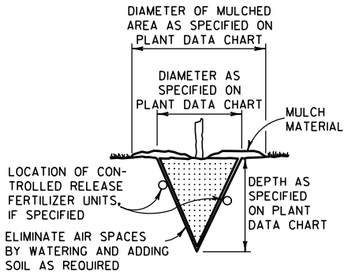
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

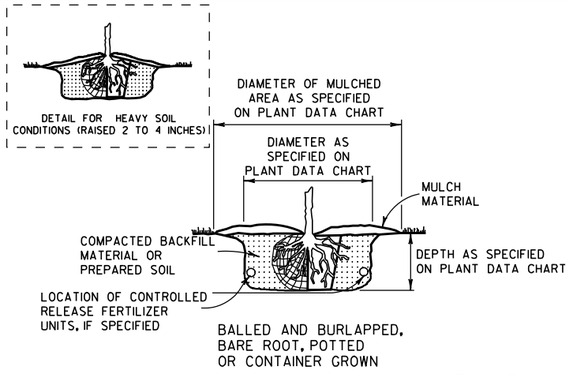
APPROVED
December, 2016 — /S/ Peter Kemp, P.E.
DATE — PAVEMENT SUPEF
FHWA

6

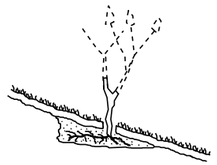
S.D.D. 13 C 18-5d



MACHINE MOVED

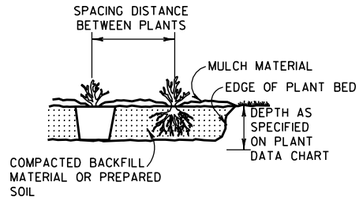


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



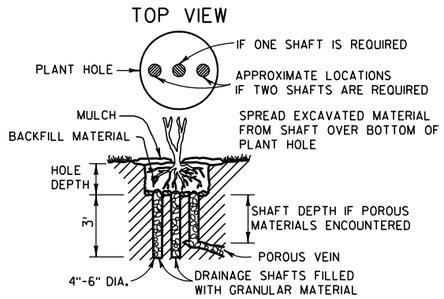
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



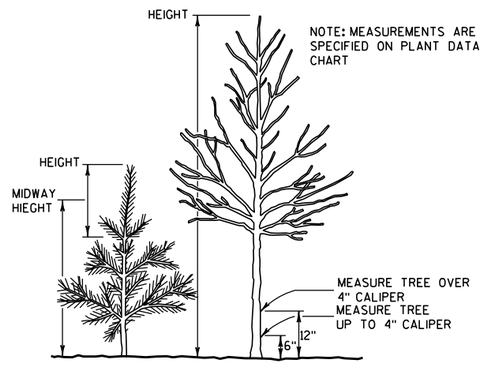
PREPARED BED (BARE ROOT AND POTTED)

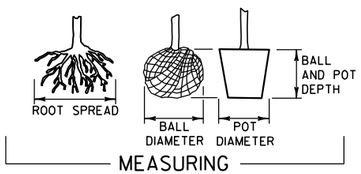
PLANTING



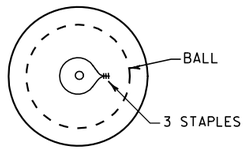
NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING

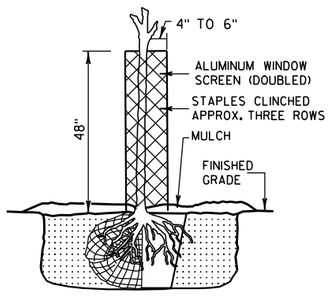




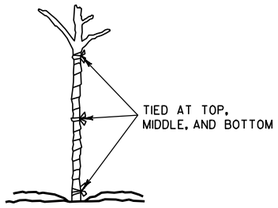
MEASURING



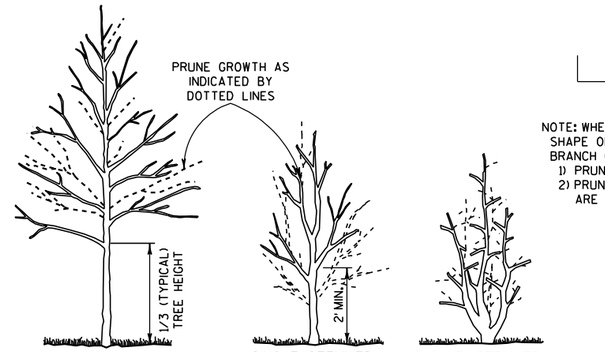
TOP VIEW



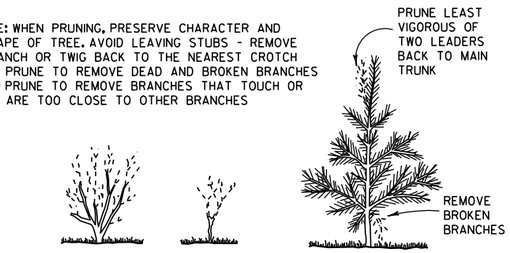
RODENT PROTECTION



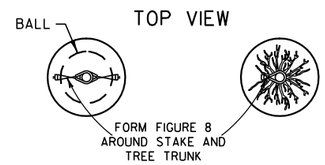
WRAPPING

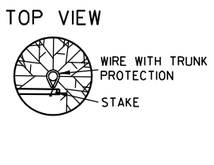


NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES



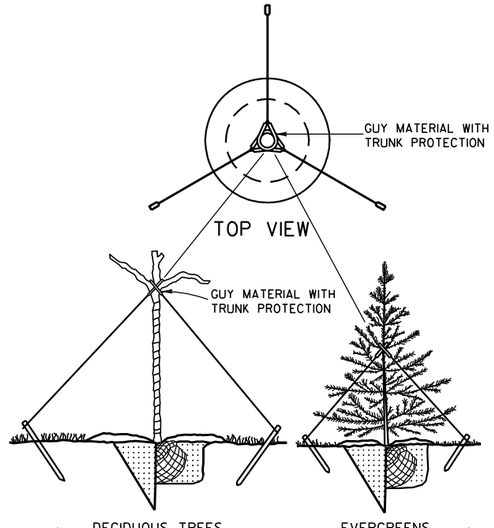
PRUNING



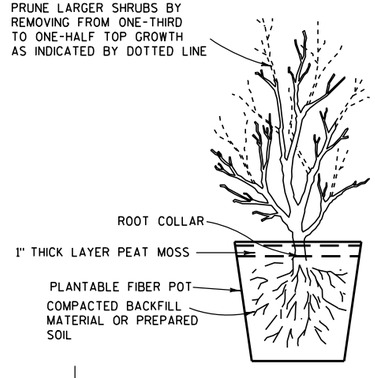


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

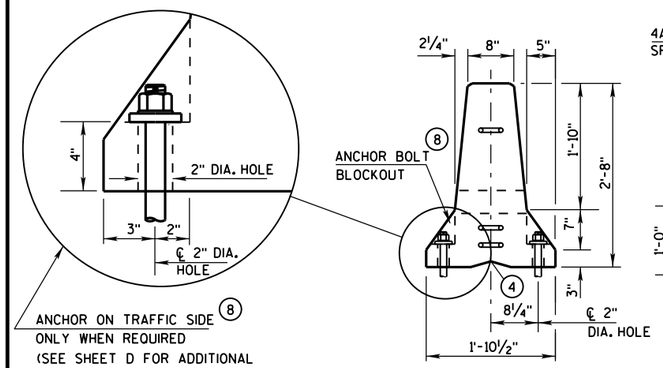
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

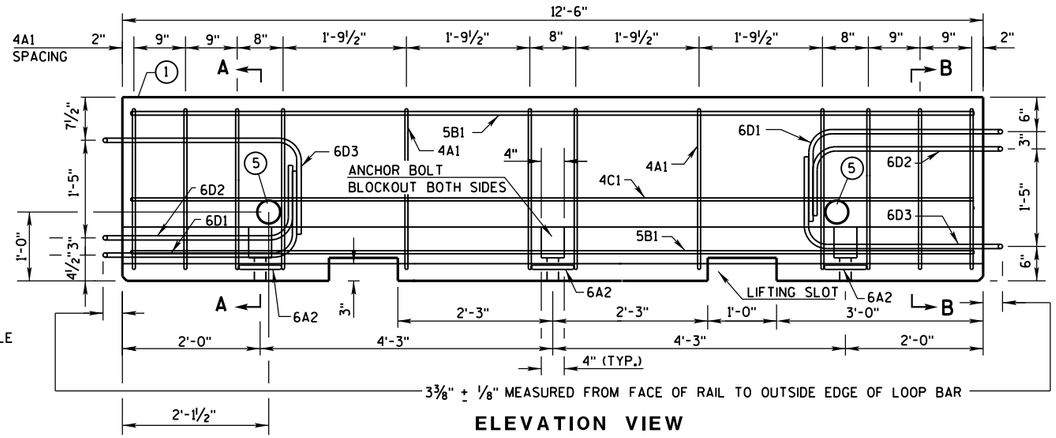
APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

6

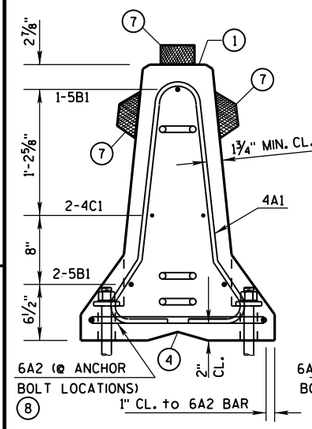
S.D.D. 14 A 2-1



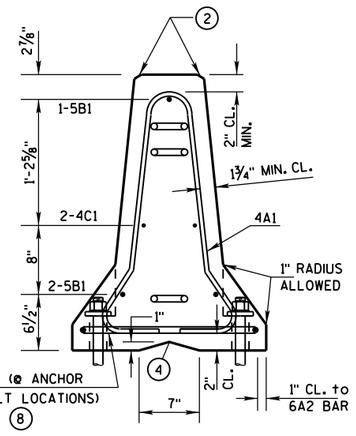
END VIEW



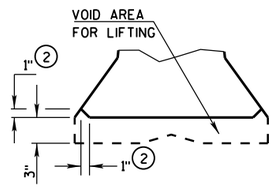
ELEVATION VIEW



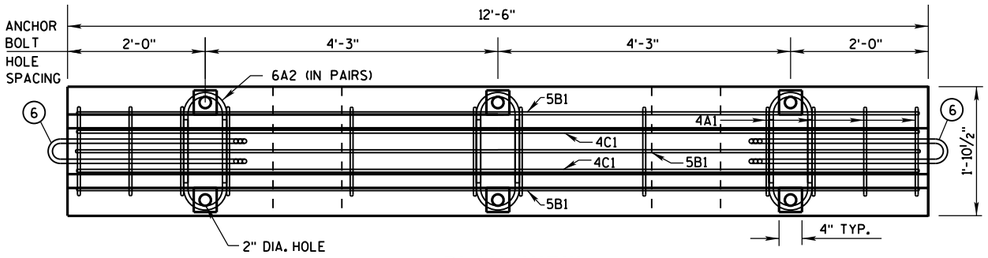
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

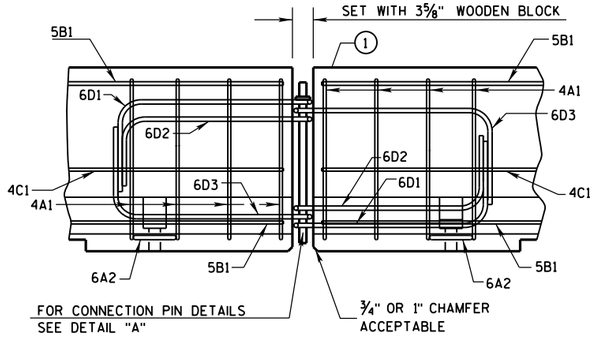


DETAIL "B"
LIFTING SLOT DETAIL

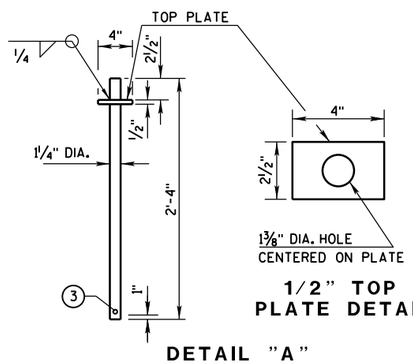


PLAN VIEW

DETAILS OF BARRIER SECTION

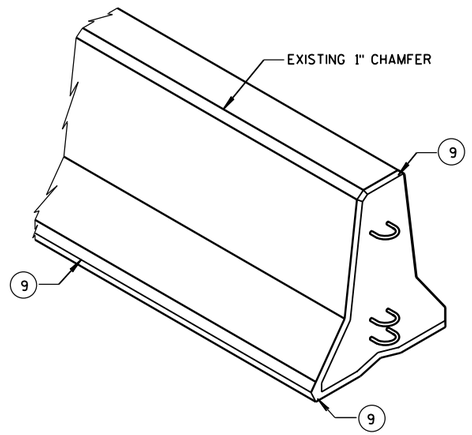


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

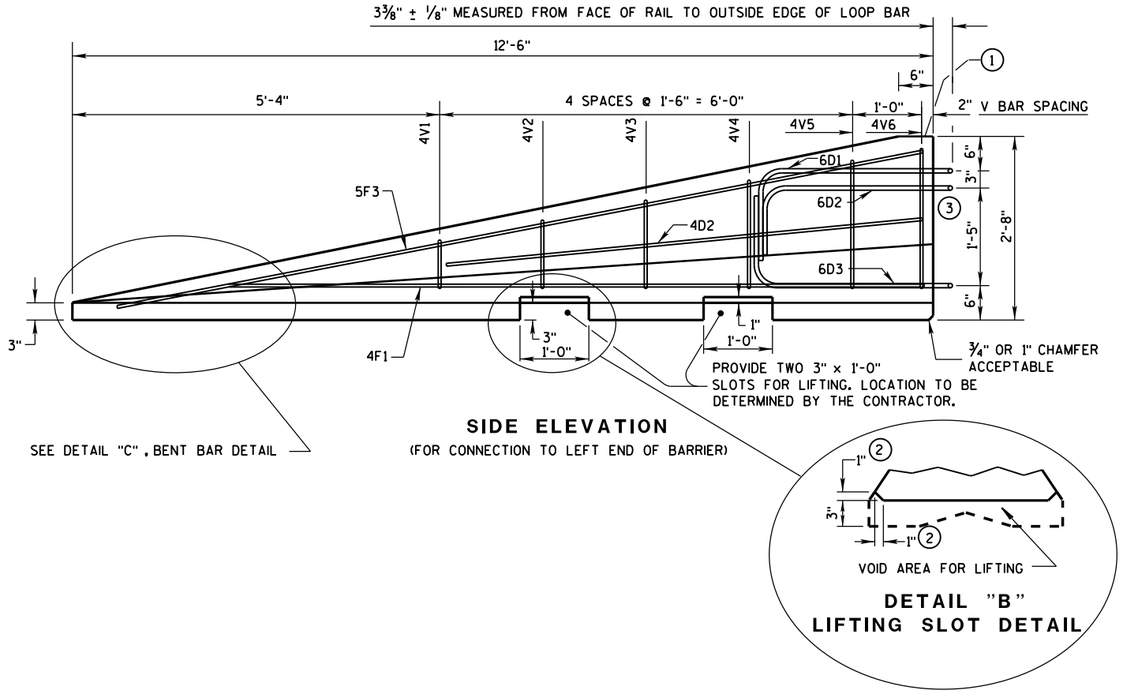
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

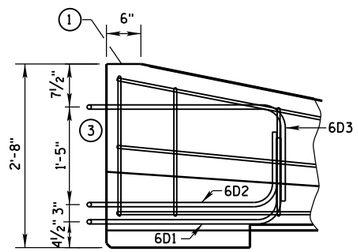
(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

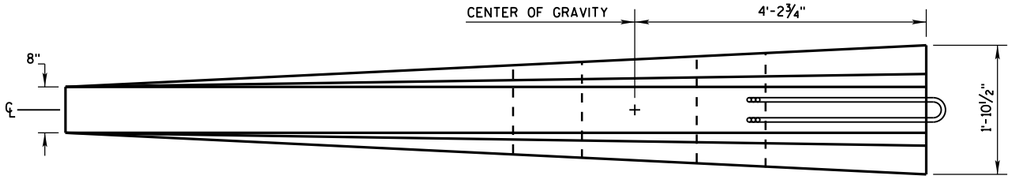
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 468

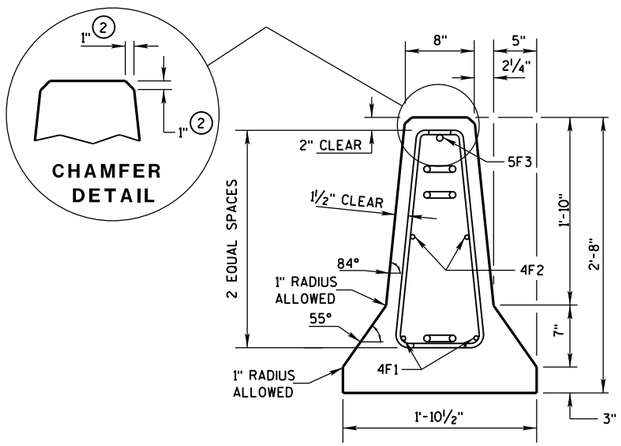


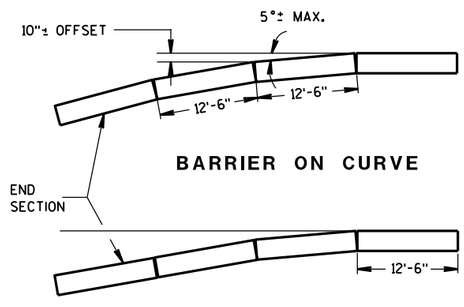


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

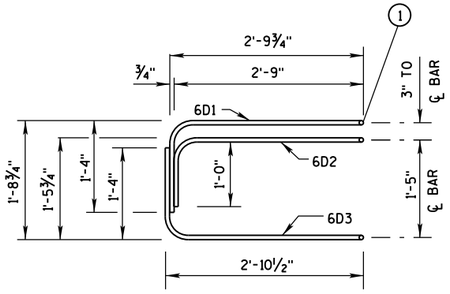
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15b

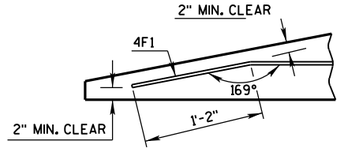
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

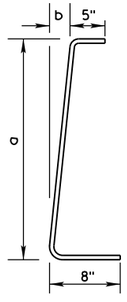
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

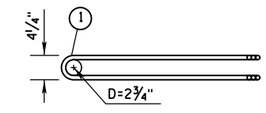
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

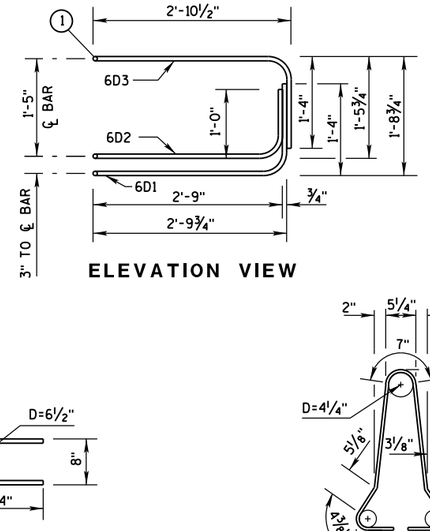
(PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

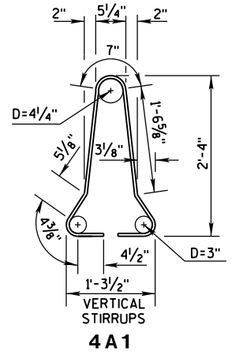


PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)

6A2



ELEVATION VIEW



4A1

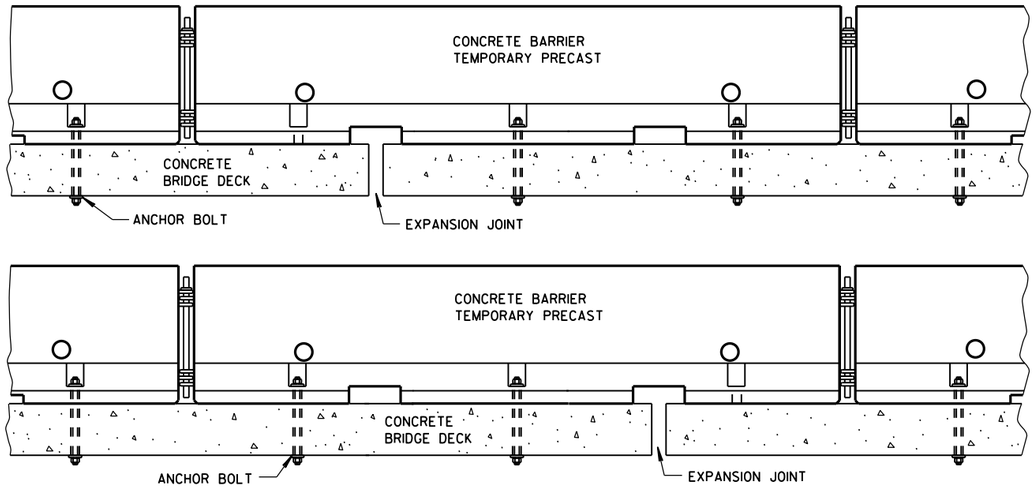
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

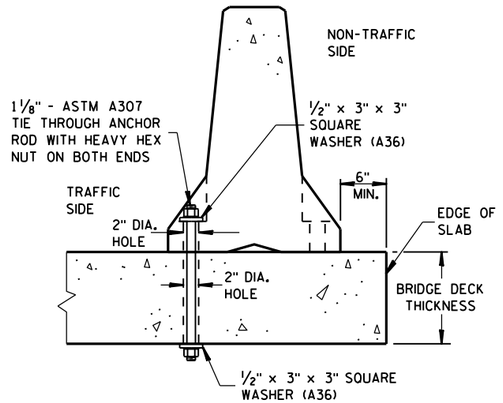
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

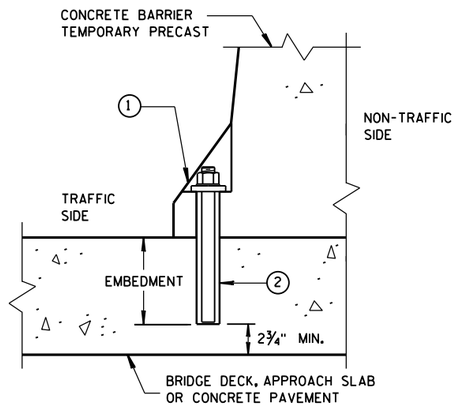
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



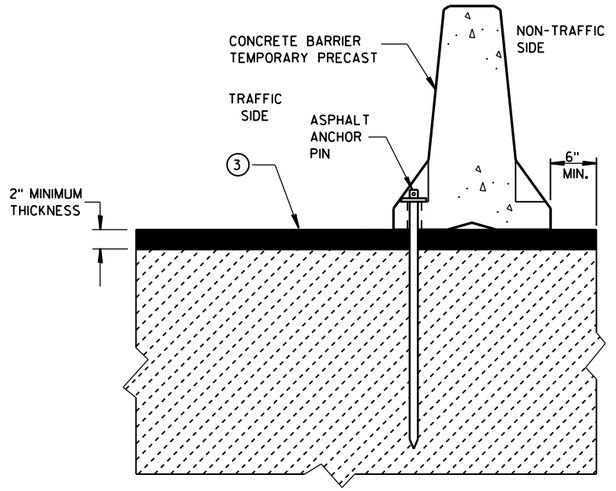
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

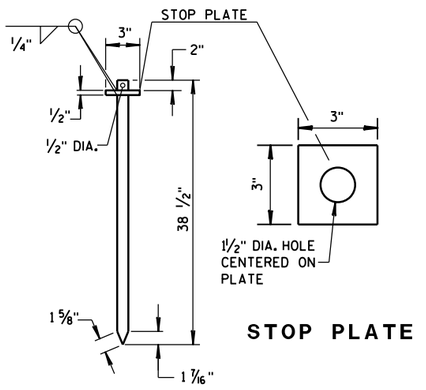


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



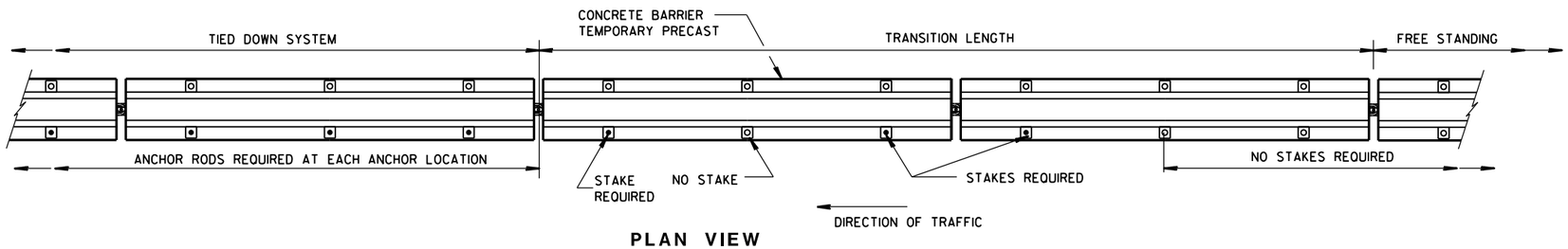
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

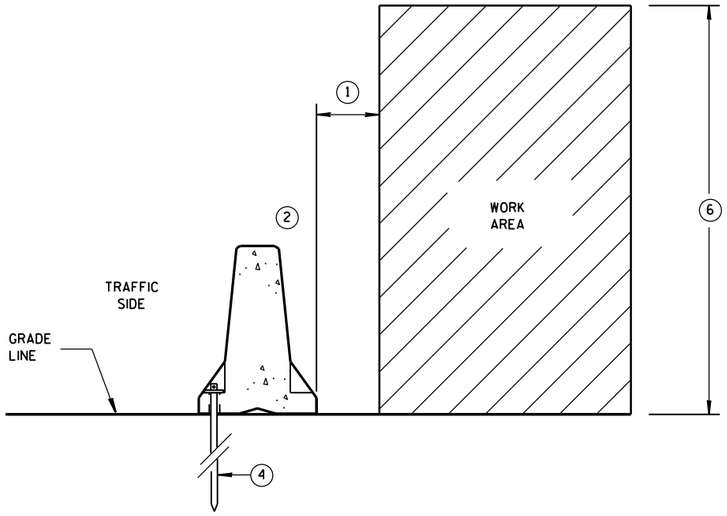
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

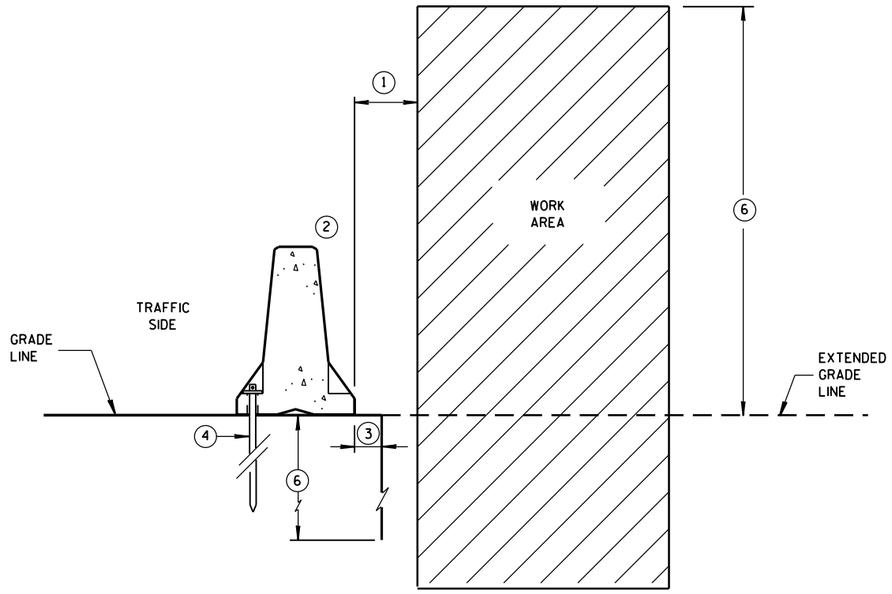
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

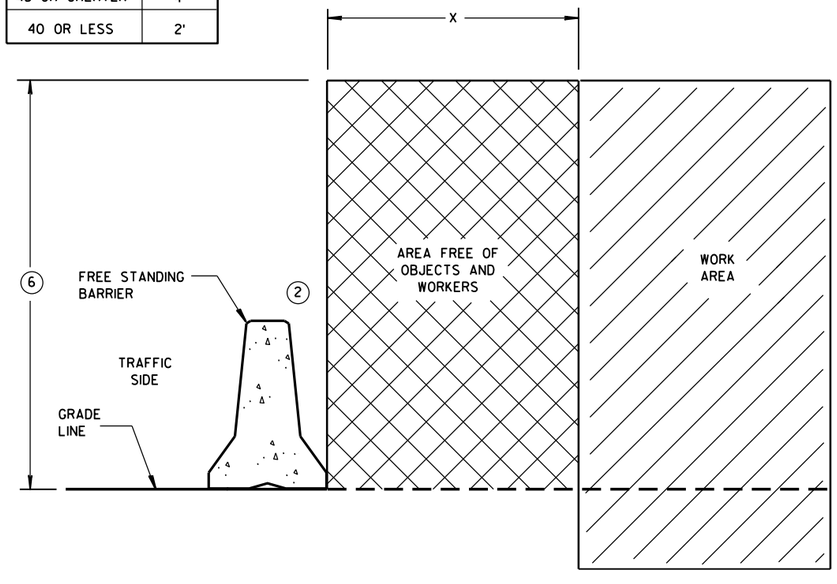


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

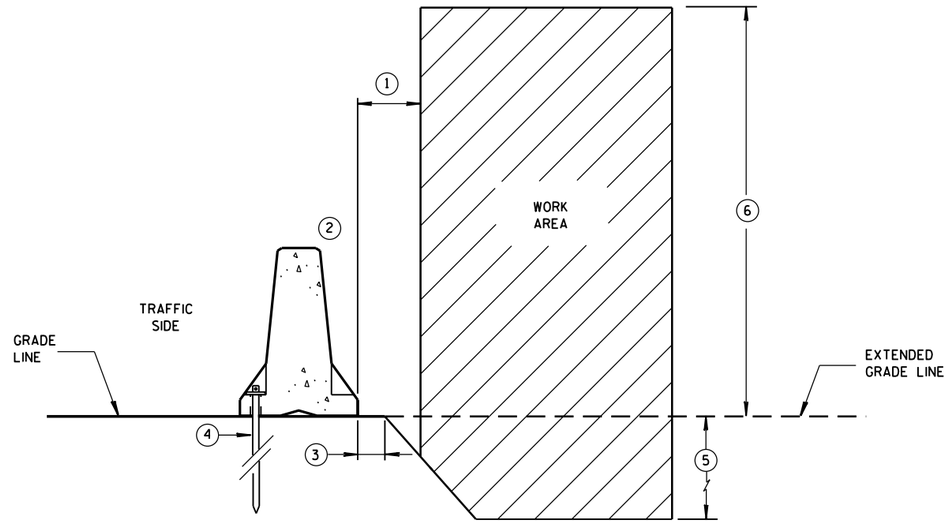
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



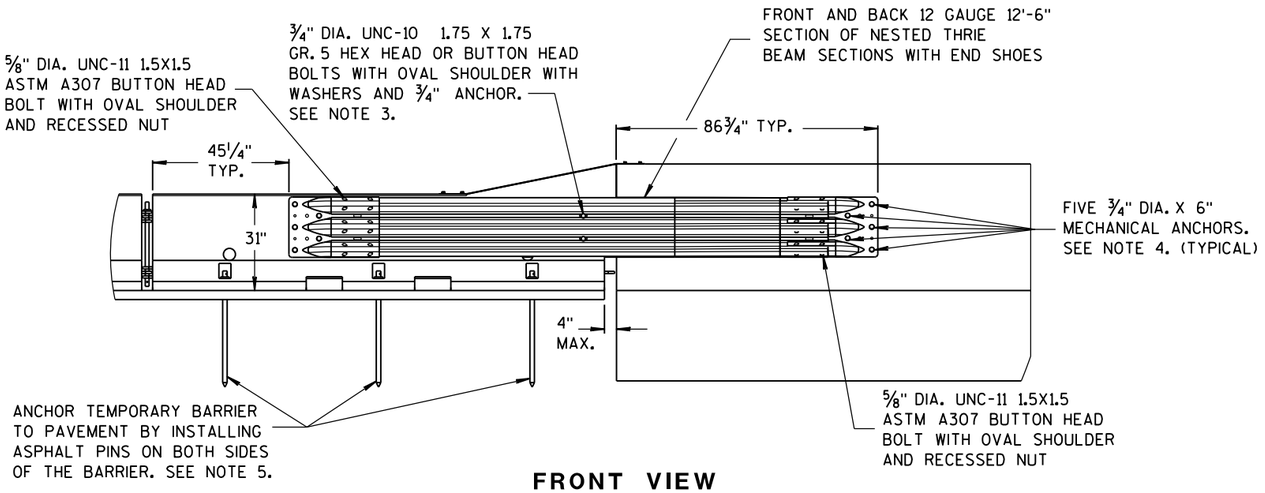
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

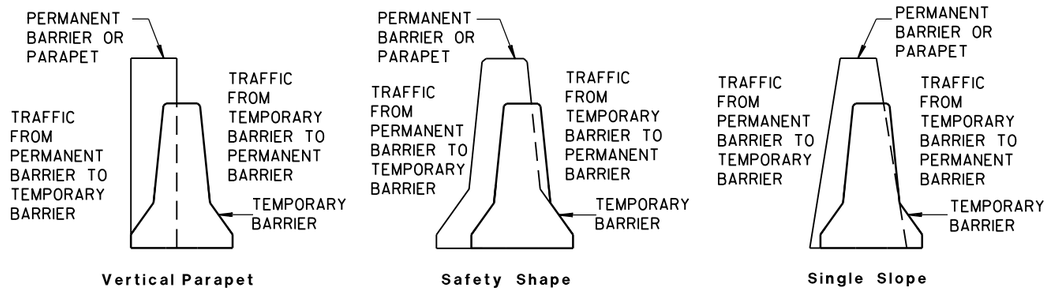
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15e



FRONT VIEW

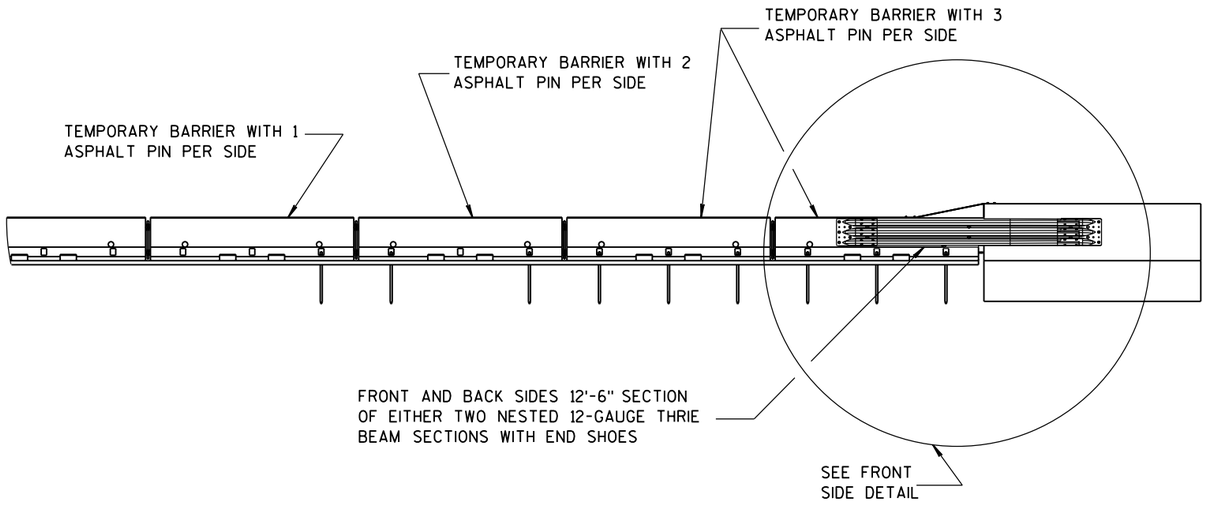


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

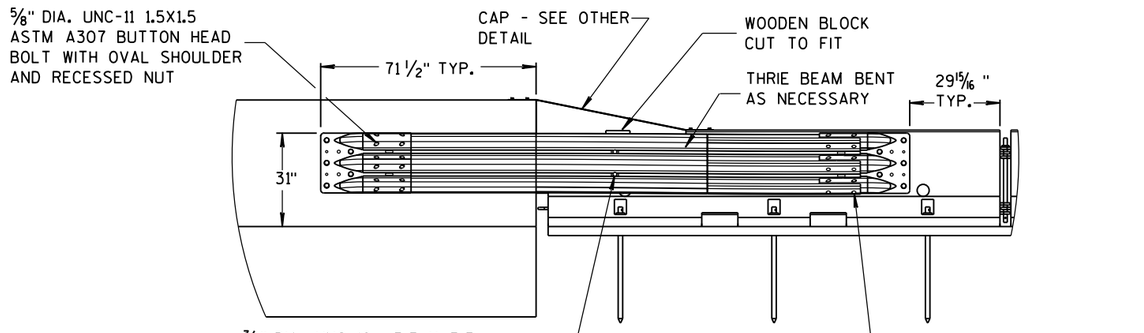
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

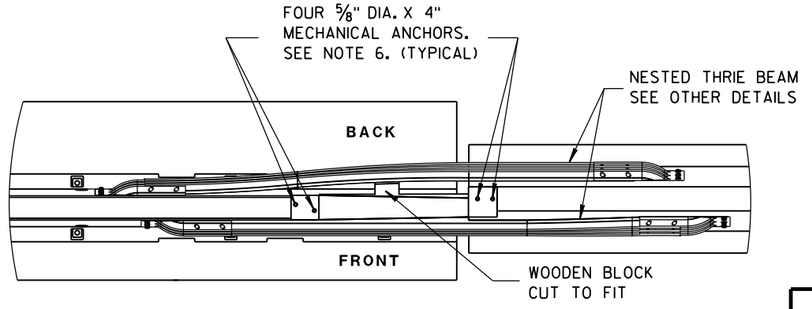
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



FRONT VIEW



BACK VIEW



PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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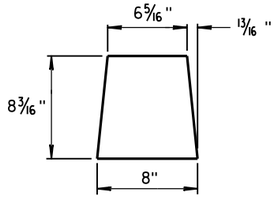
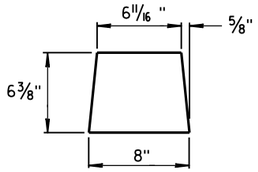
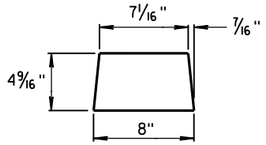
S.D.D. 14 B 7-15f



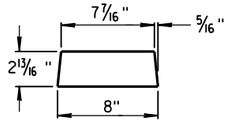
GUSSET 1



GUSSET 2

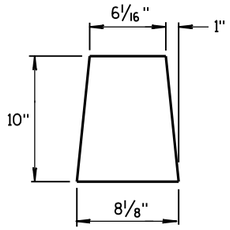


GUSSET 3

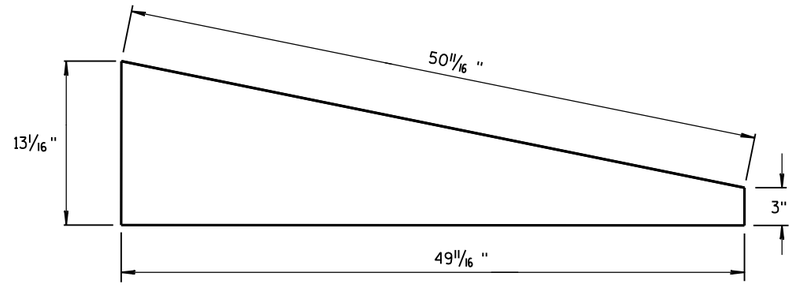


GUSSET 4

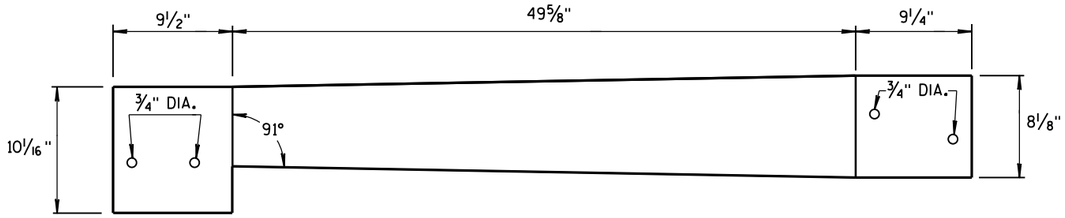
GUSSETS

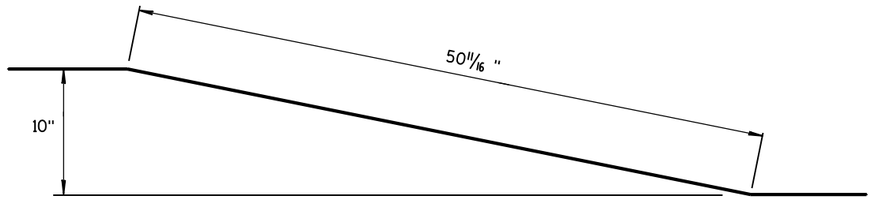


END PLATE



SIDE PLATE

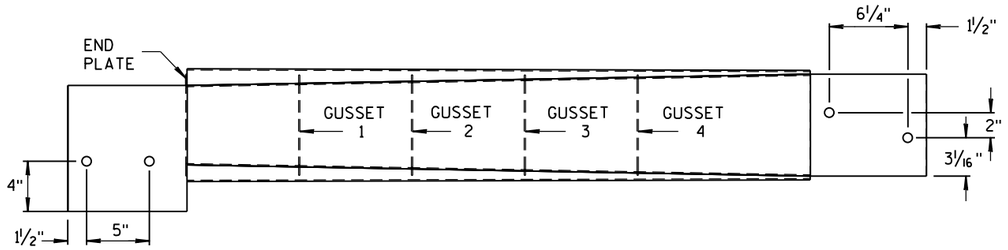


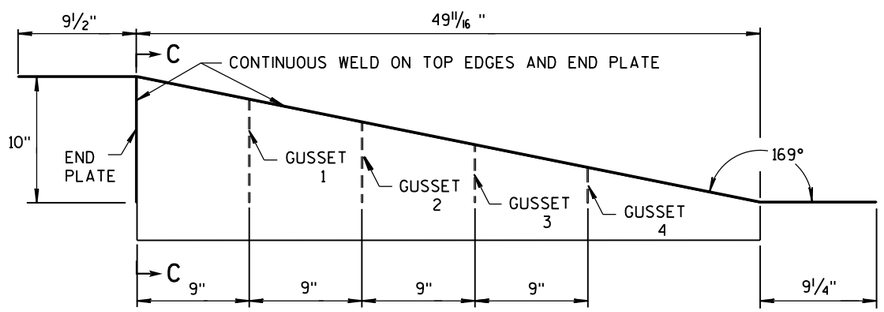


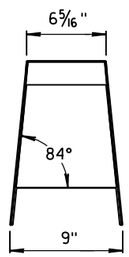
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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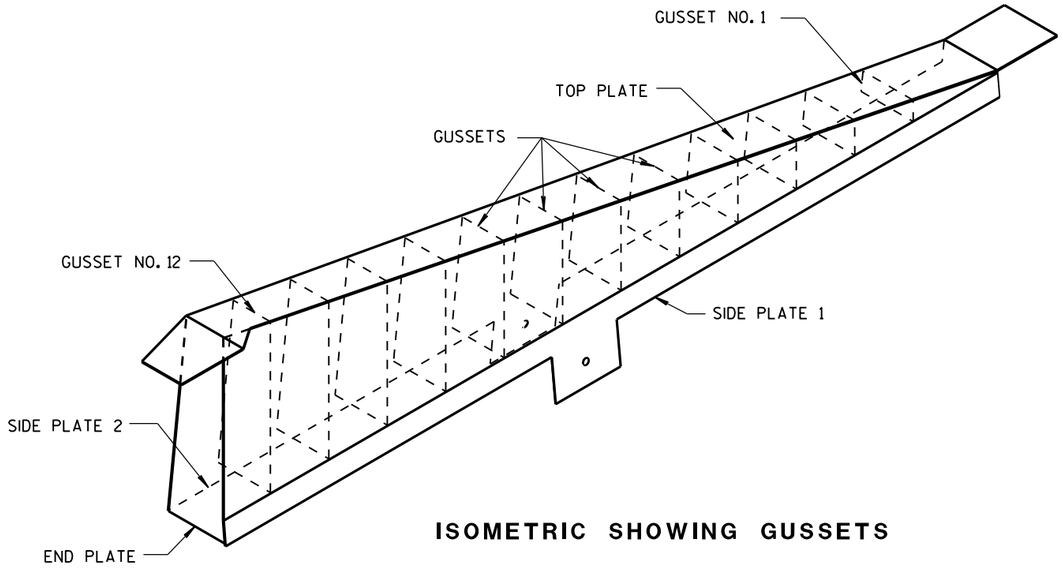
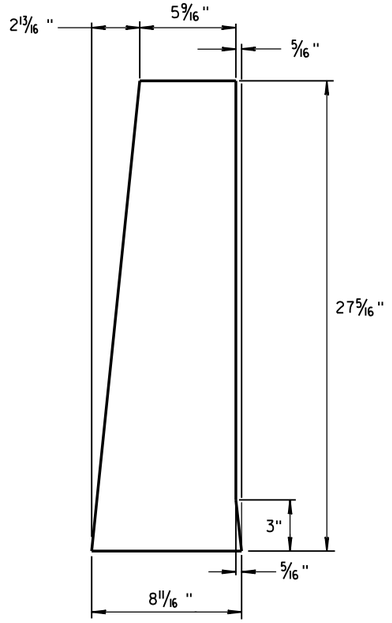
S.D.D. 14 B 7-15g

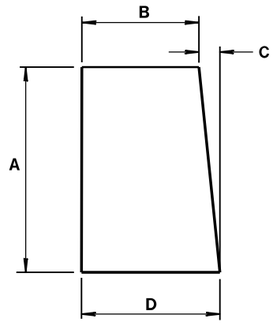


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



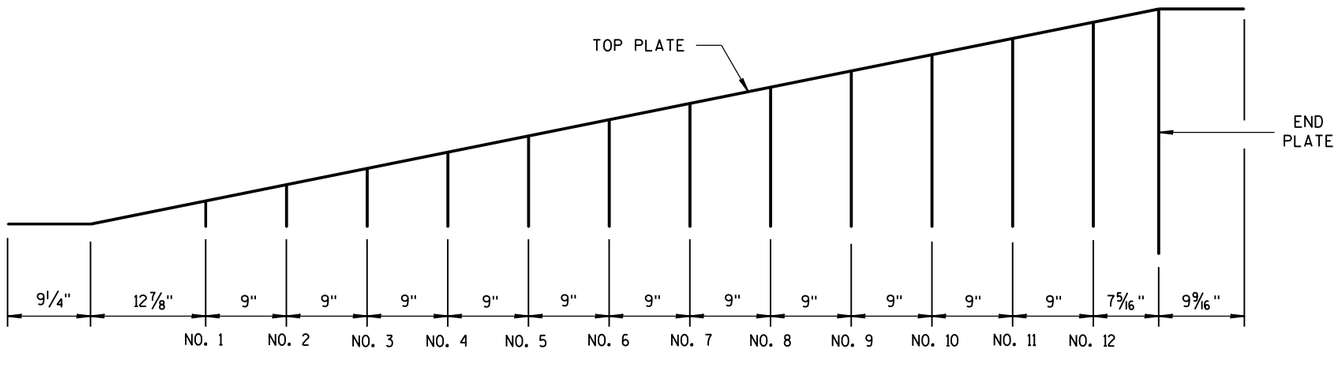
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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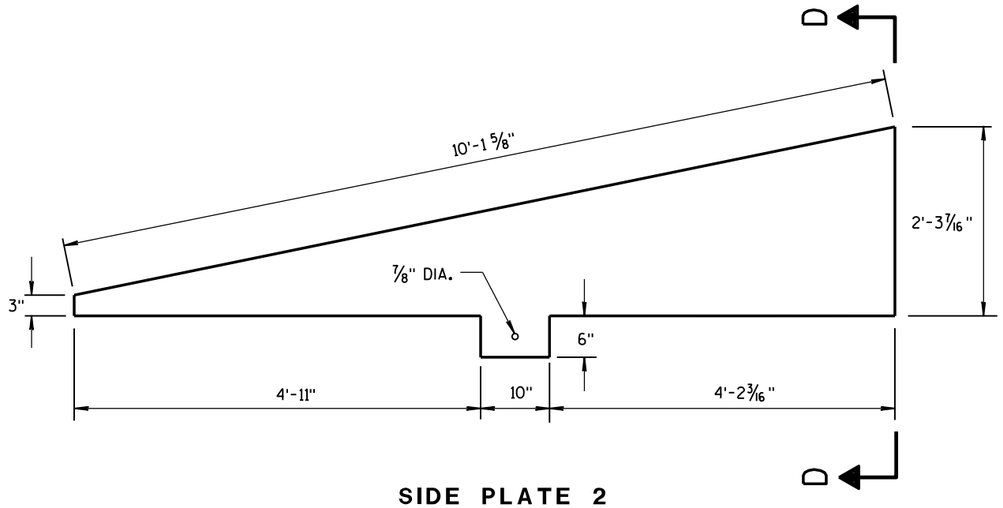
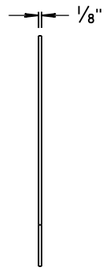
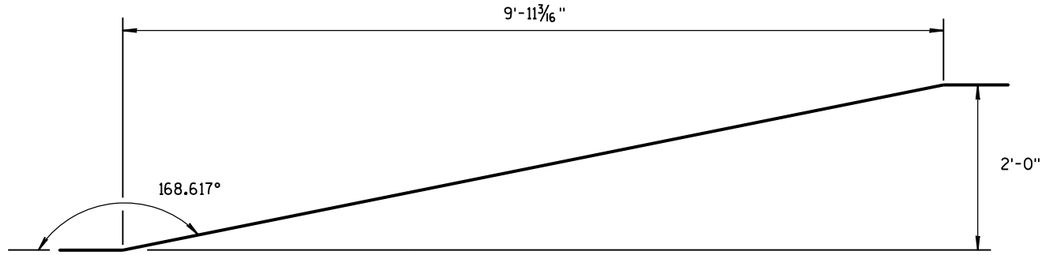
S.D.D. 14 B 7-15h



SIDE PLATE 2

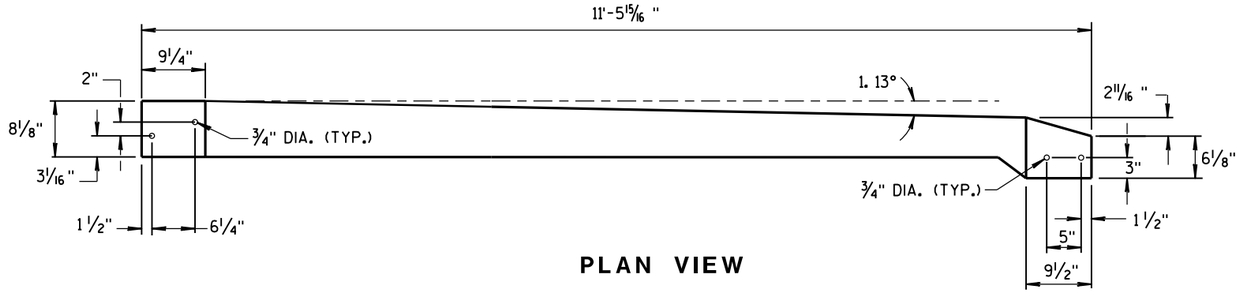


END VIEW



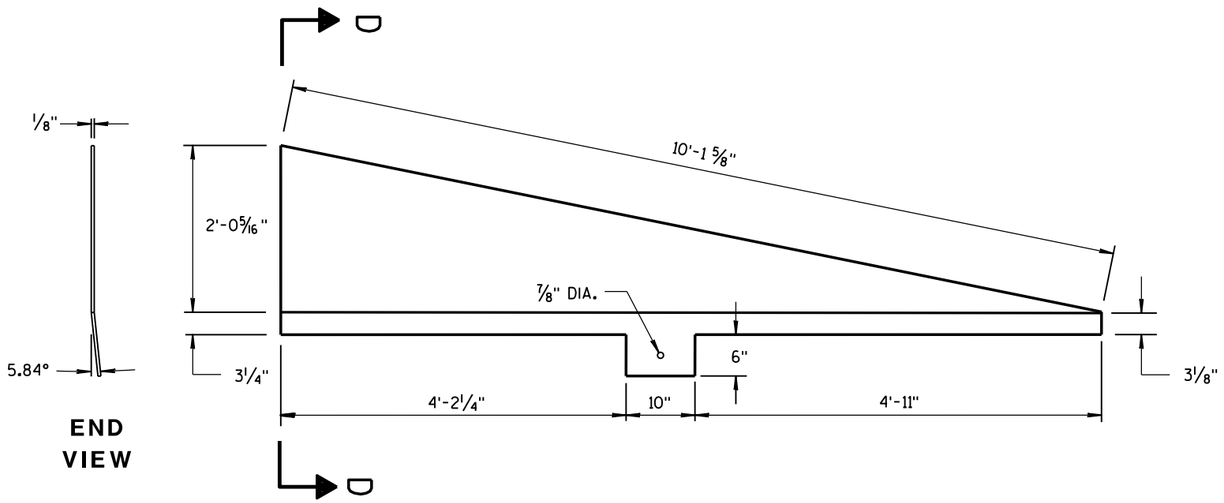
SIDE VIEW

TOP PLATE



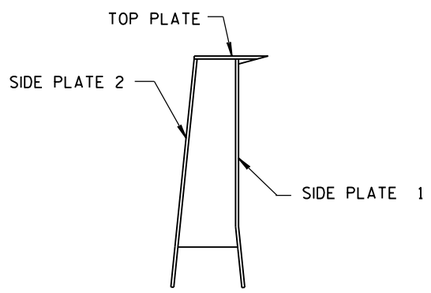
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
476
ENT
FHWA

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S.D.D. 14 B 7-15i

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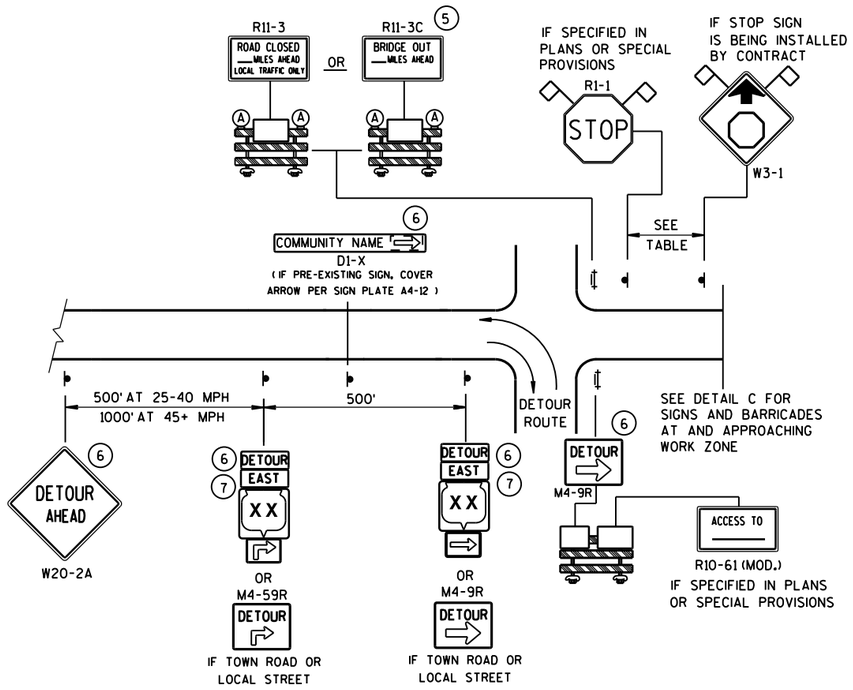
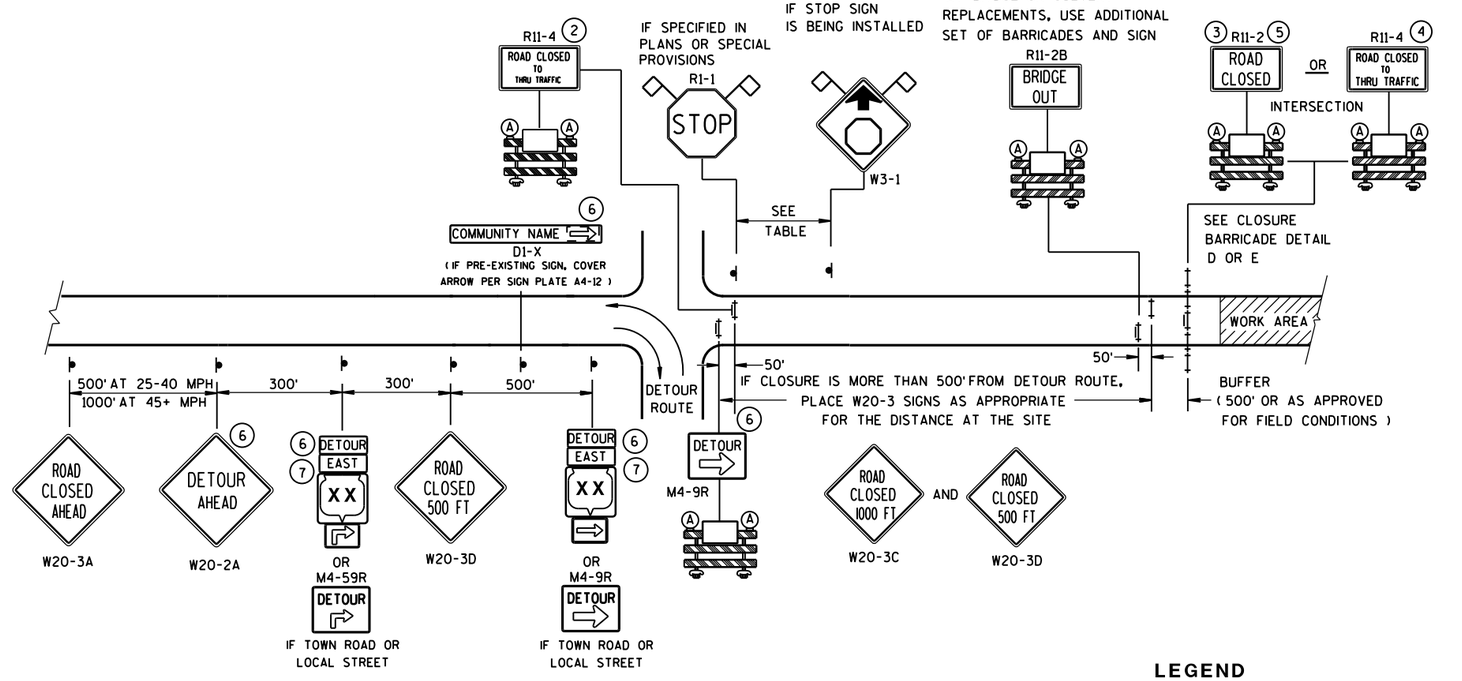
S.D.D. 14 B 7-15i



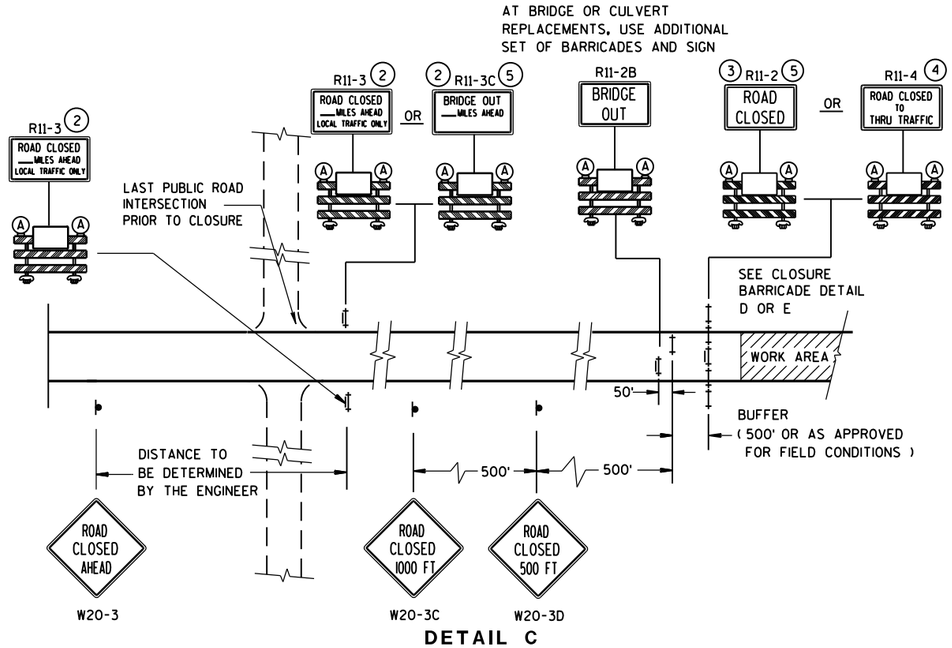
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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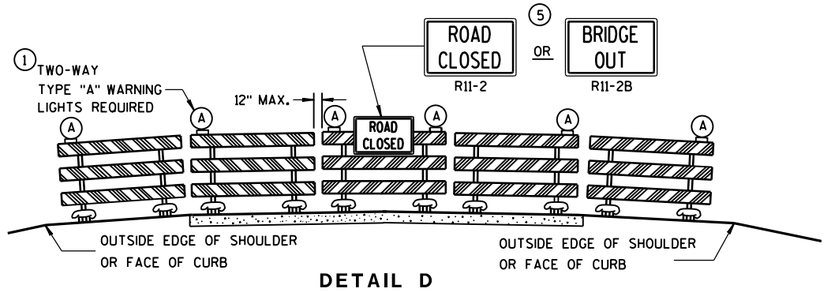
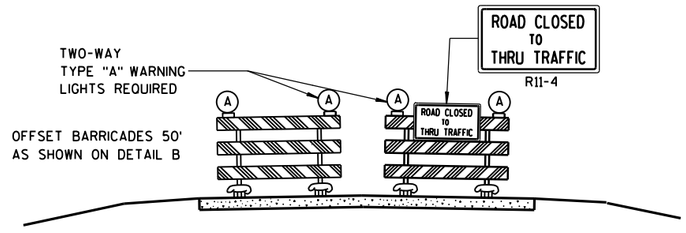
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

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S.D.D. 15 C 2-6b

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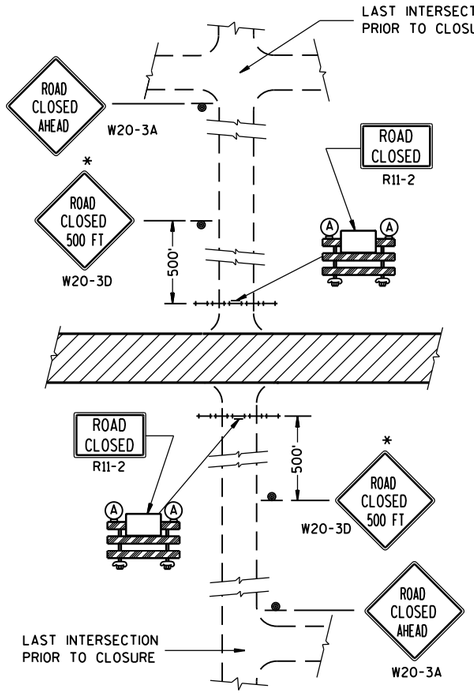
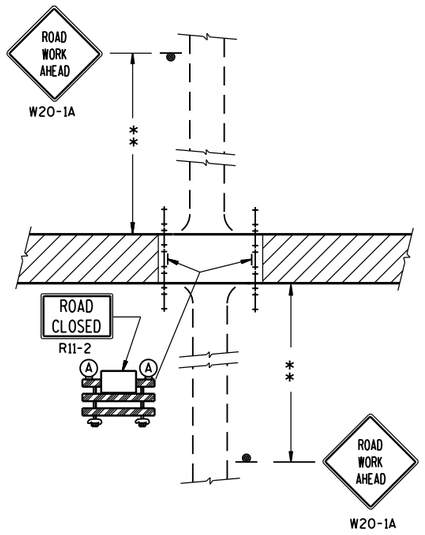
S.D.D. 15 C 2-6b



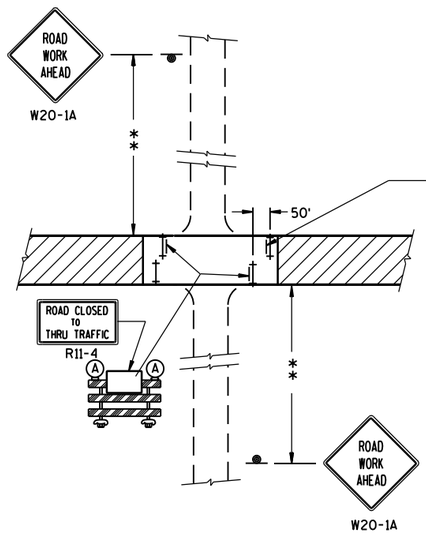
DETAIL 1

(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

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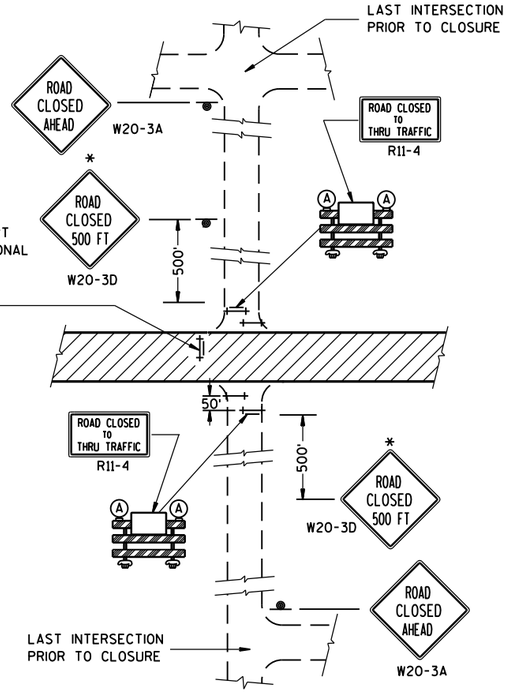

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

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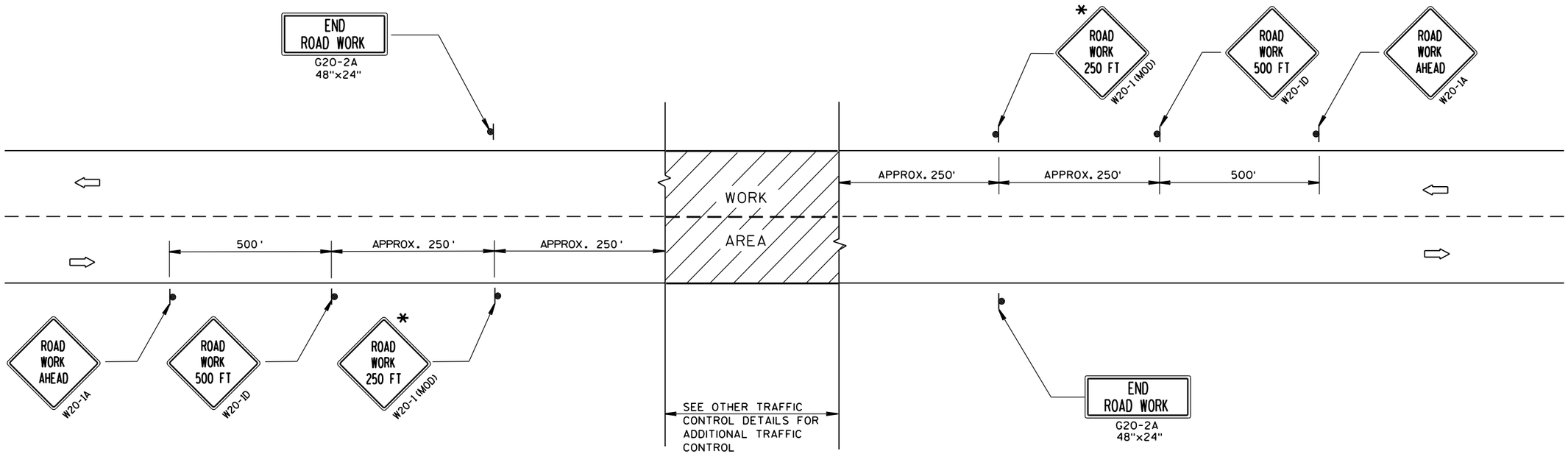
S.D.D. 15 C 3-3

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

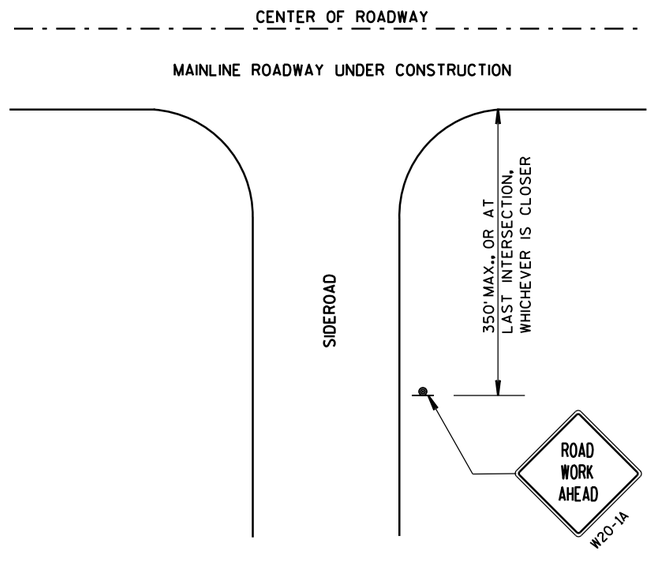
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
480 IC
FHWA

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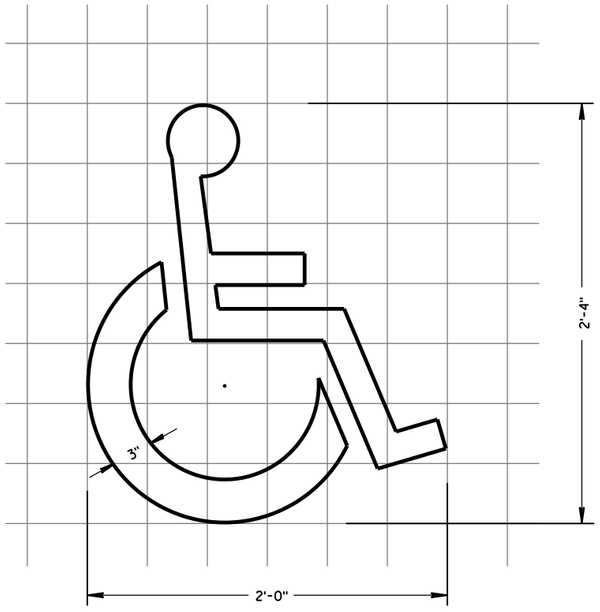
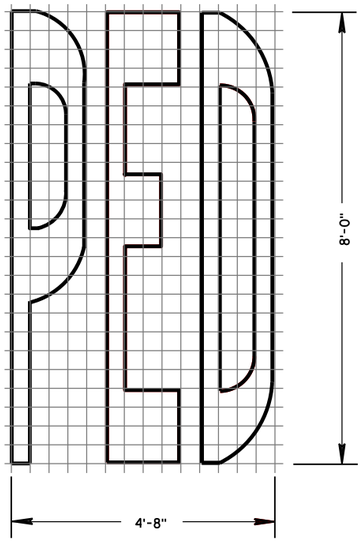
S.D.D. 15 C 5-3

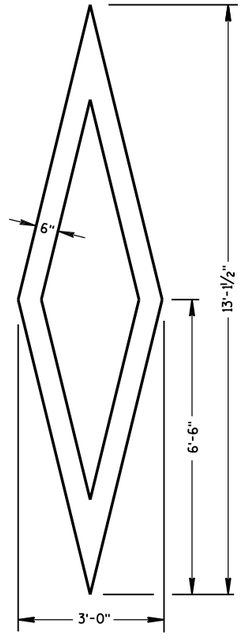
GENERAL NOTES

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



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

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S.D.D. 15 C 7-14a

S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

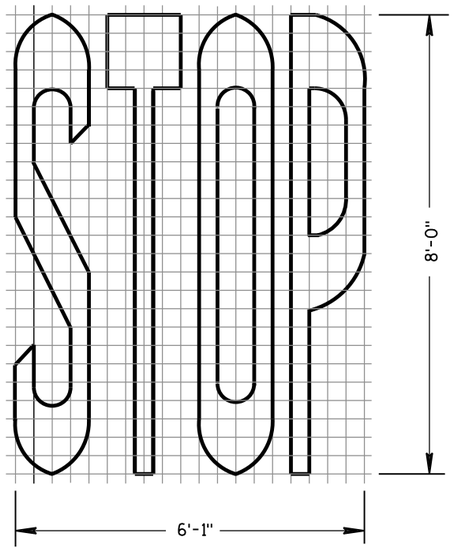
June 2017 — DATE

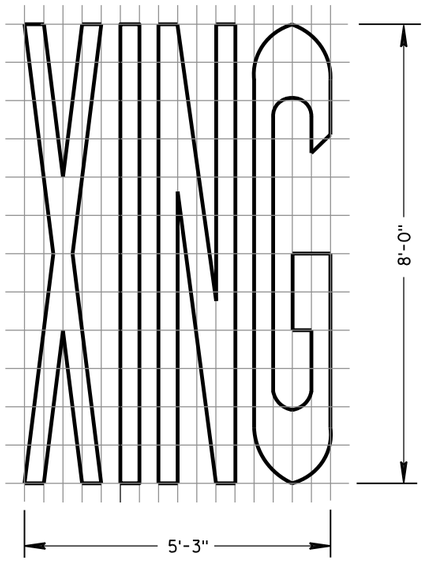
/S/ Matthew R. Rauch — STATE SIGNING AND MARK EER

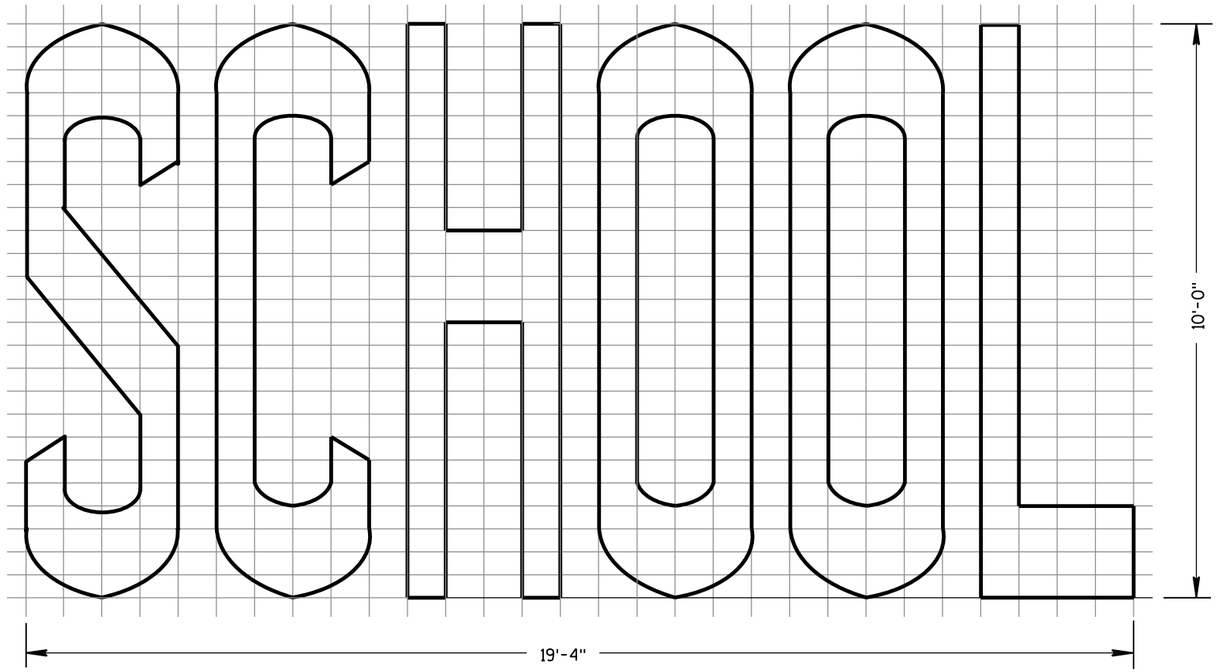
FHWA

GENERAL NOTES

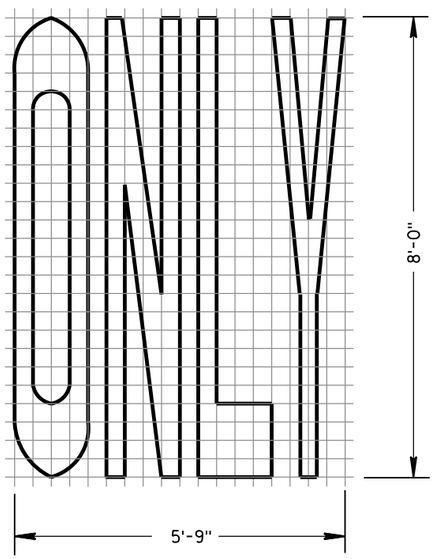
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

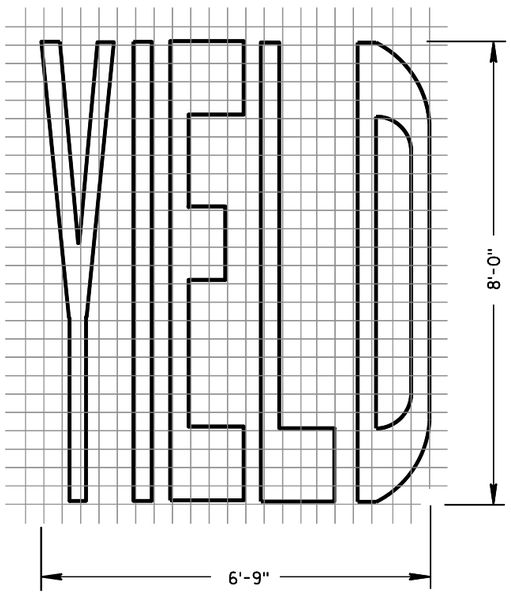


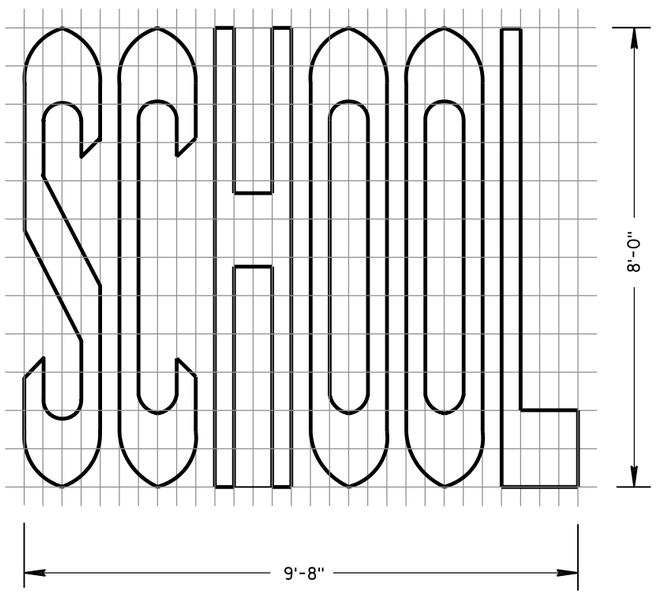




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
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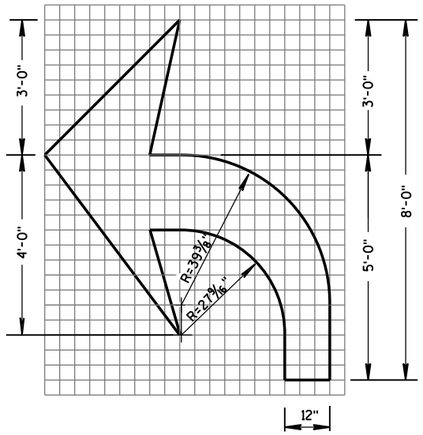
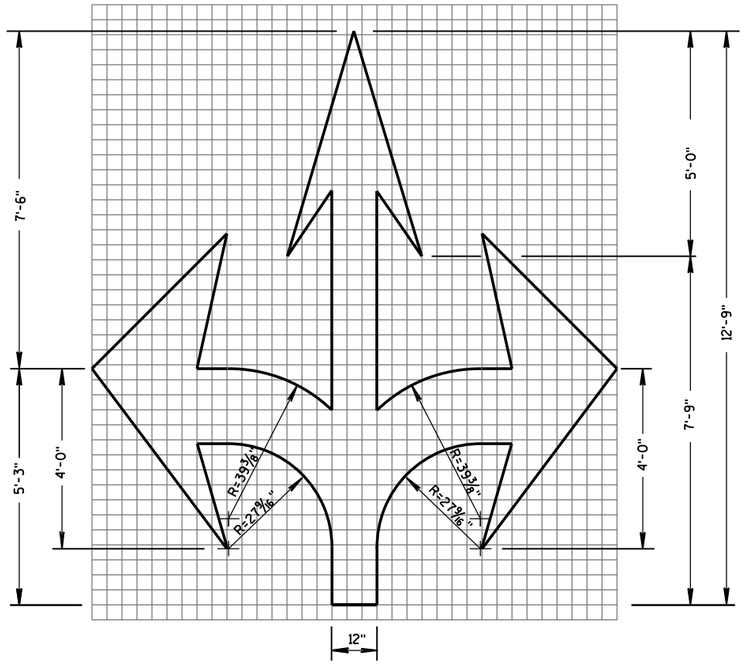
S.D.D. 15 C 7-14b

GENERAL NOTES

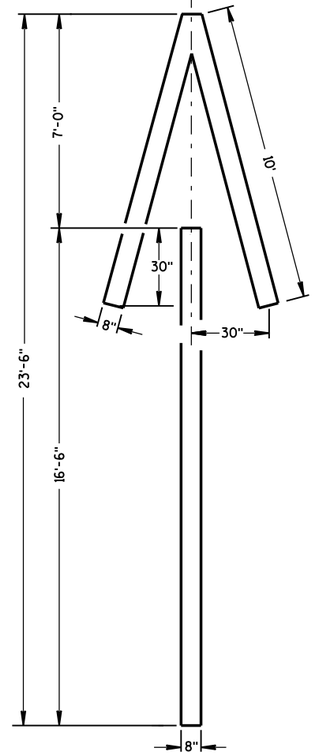
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



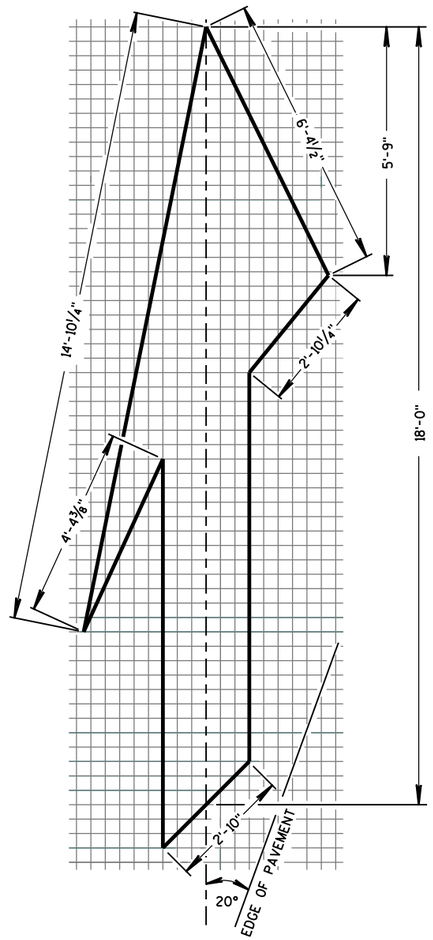
TYPE 2



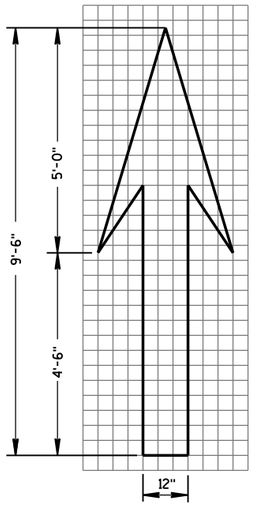
TYPE 6



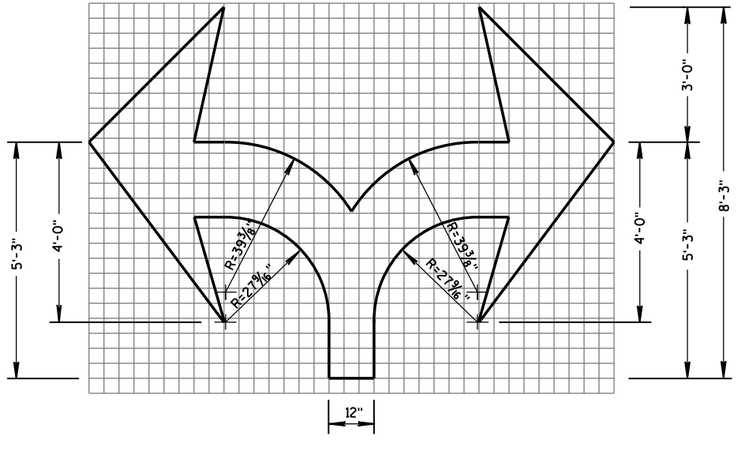
TYPE 4



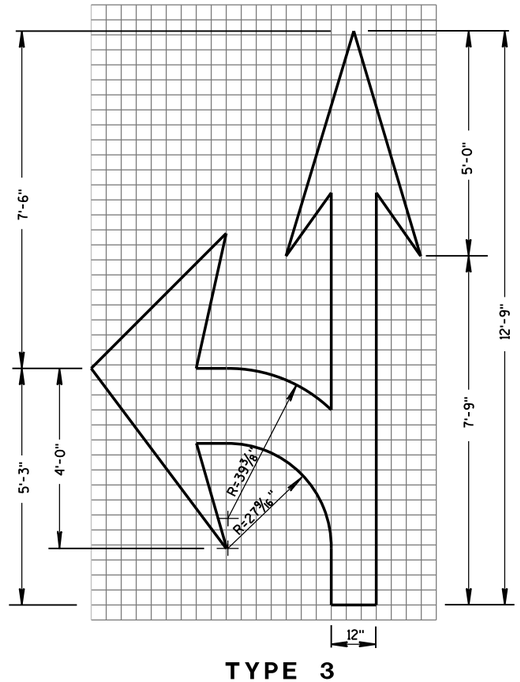
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
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S.D.D. 15 C 7-14c

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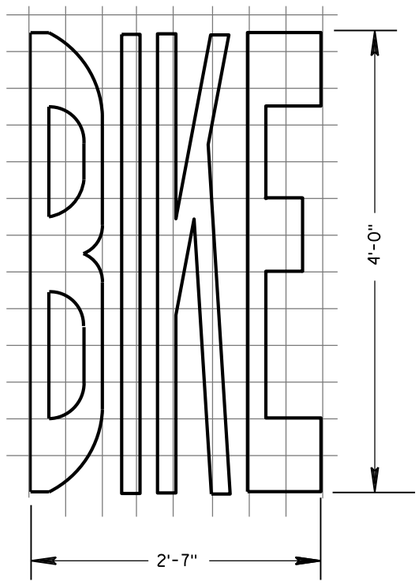
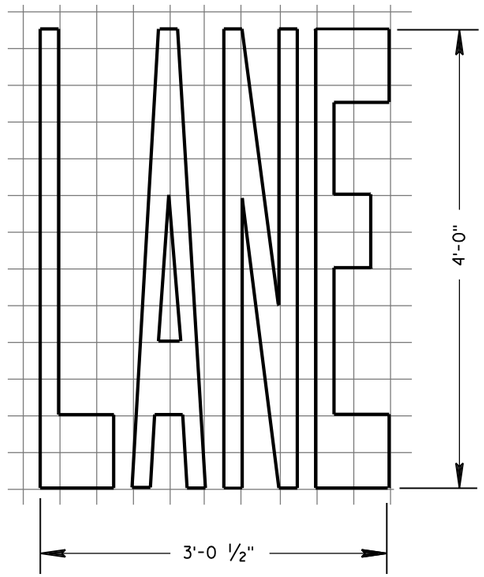
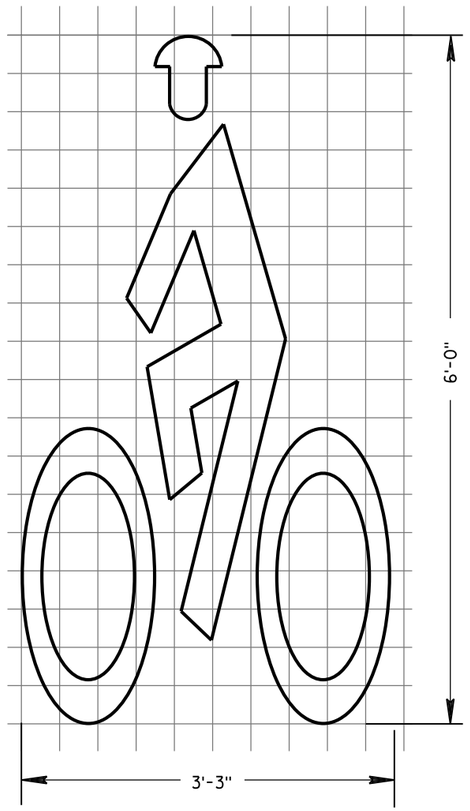
S.D.D. 15 C 7-14c

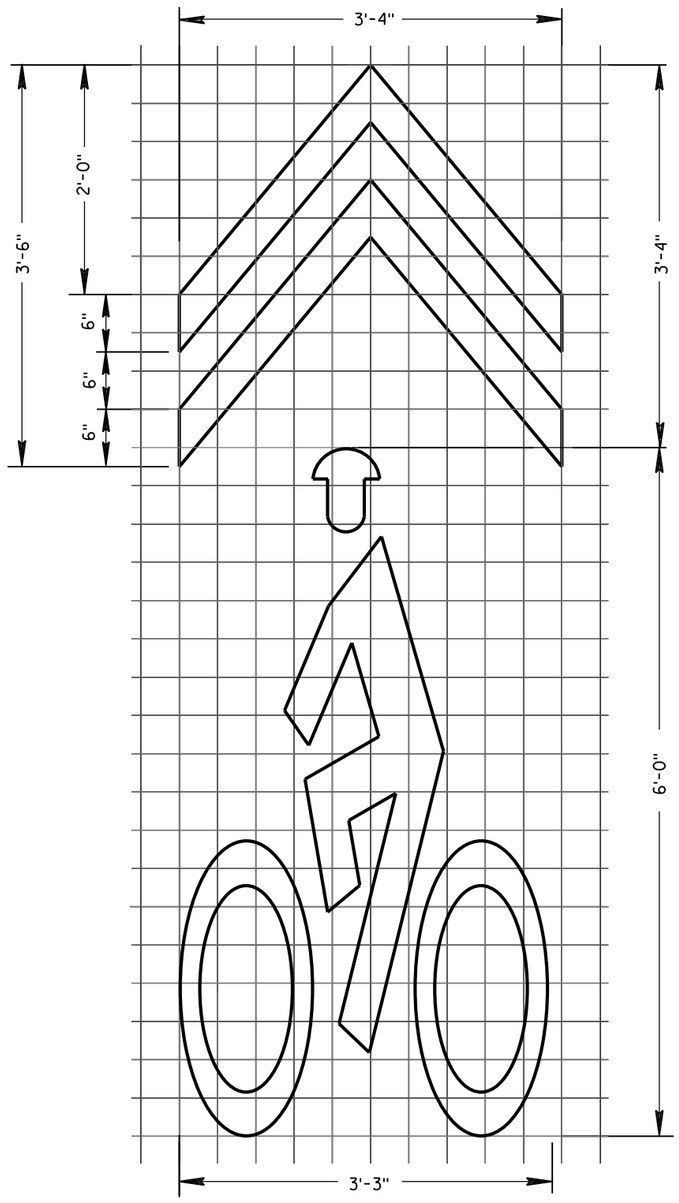




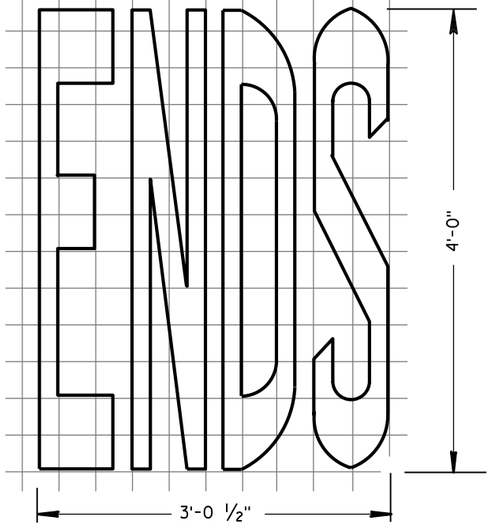
BIKE LANE WORDS



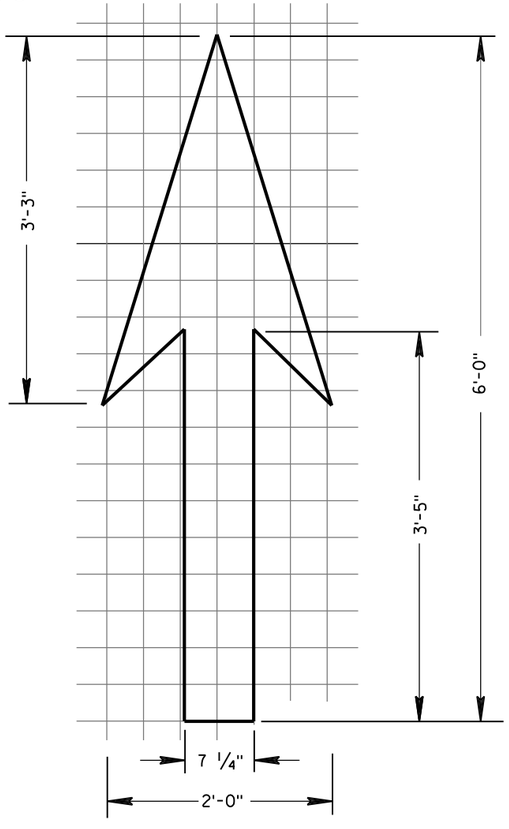
BIKE LANE SYMBOL



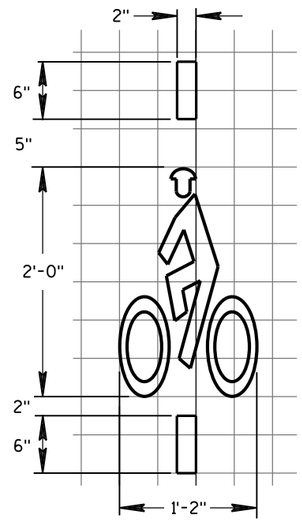
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

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

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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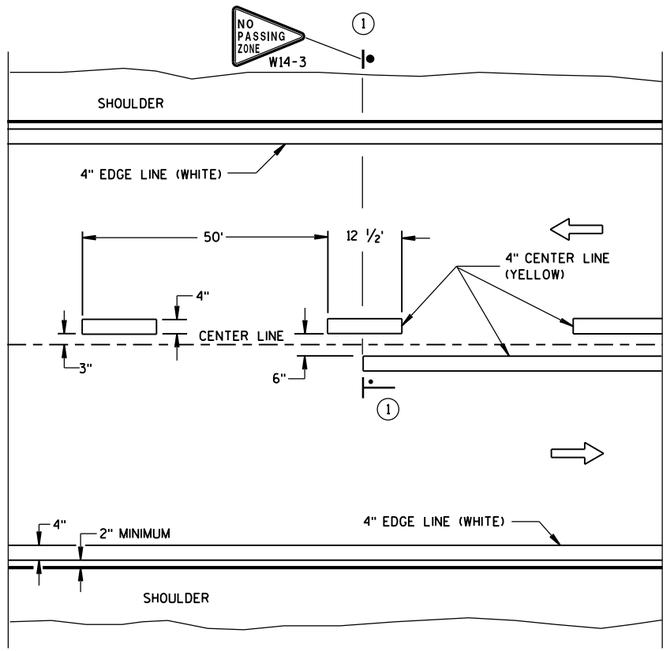
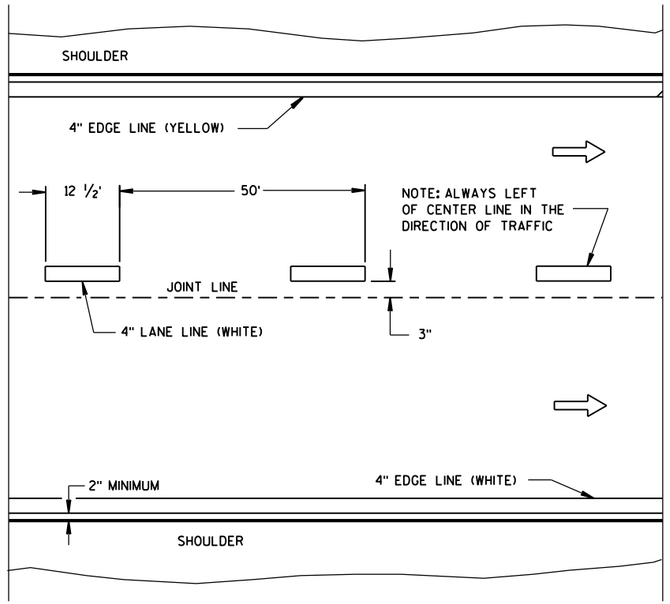
S.D.D. 15 C 7-14e



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

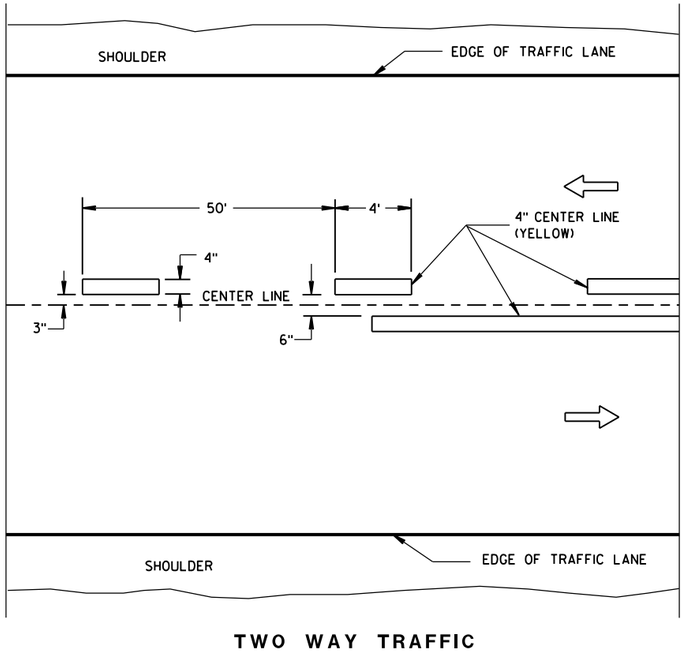
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

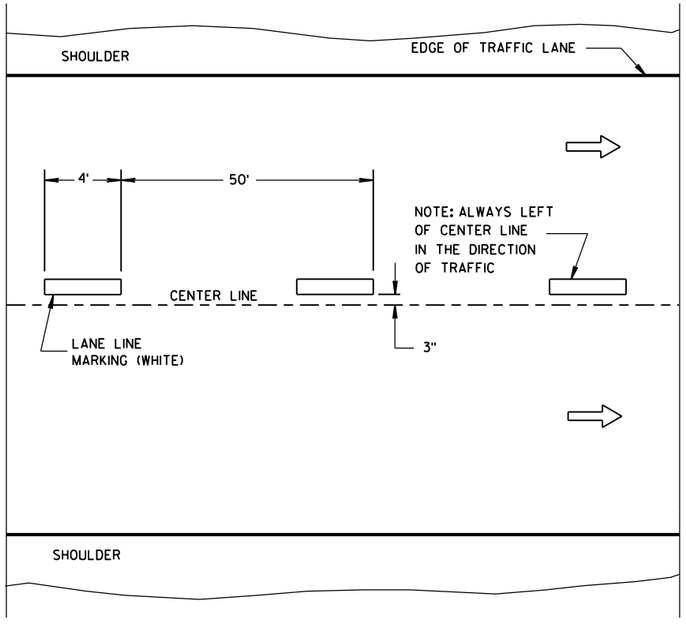
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR[illegible]INEER
FHWA	

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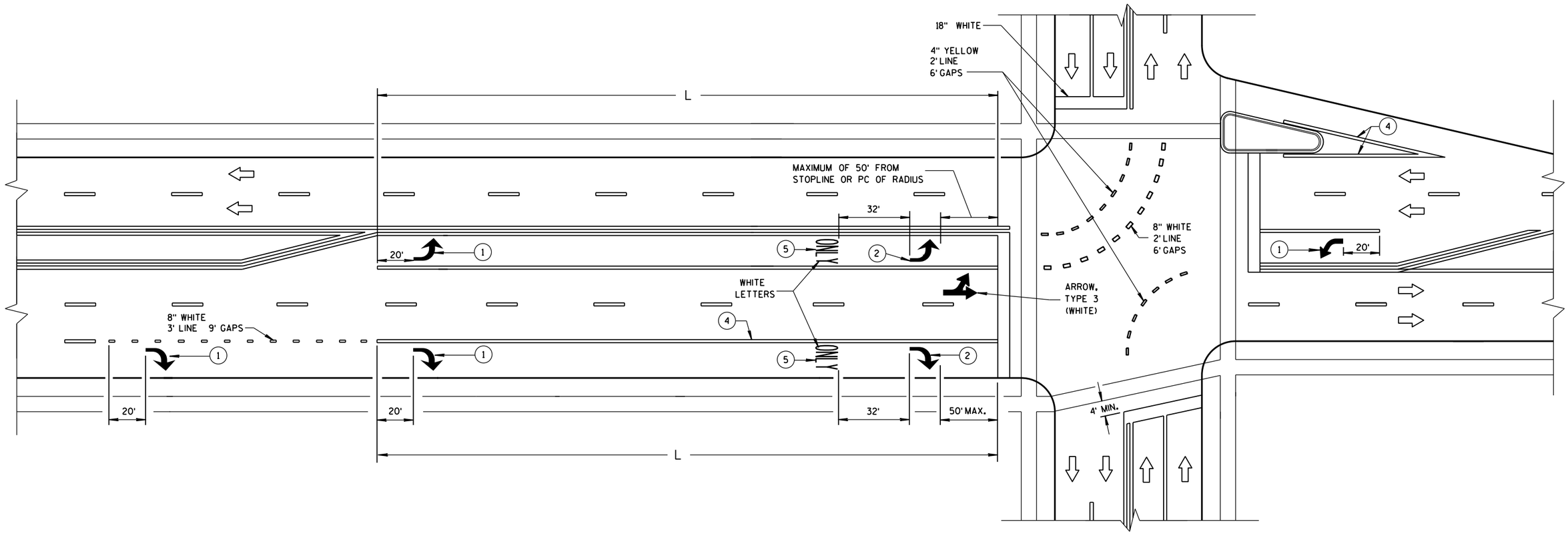
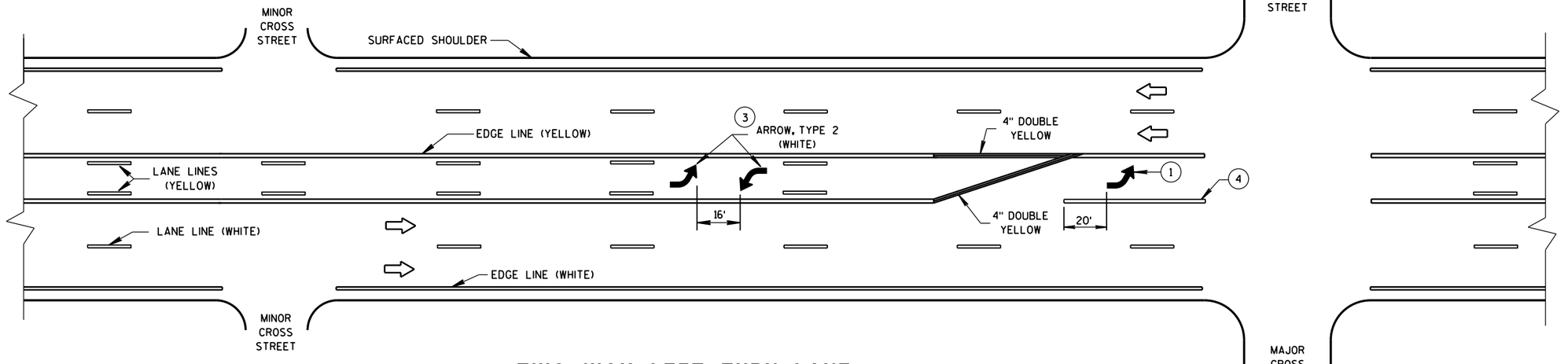
S.D.D. 15 C 8-18a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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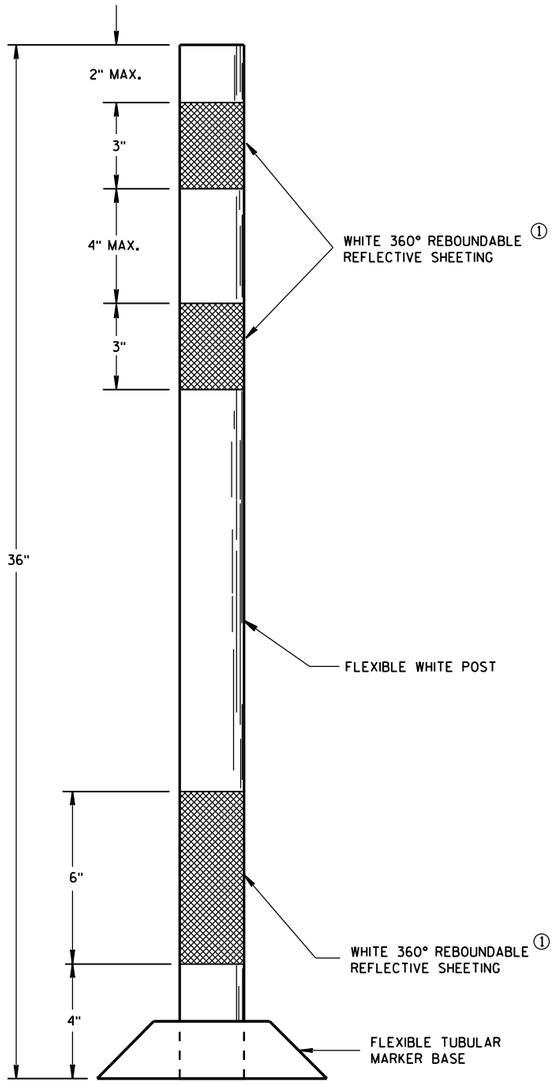
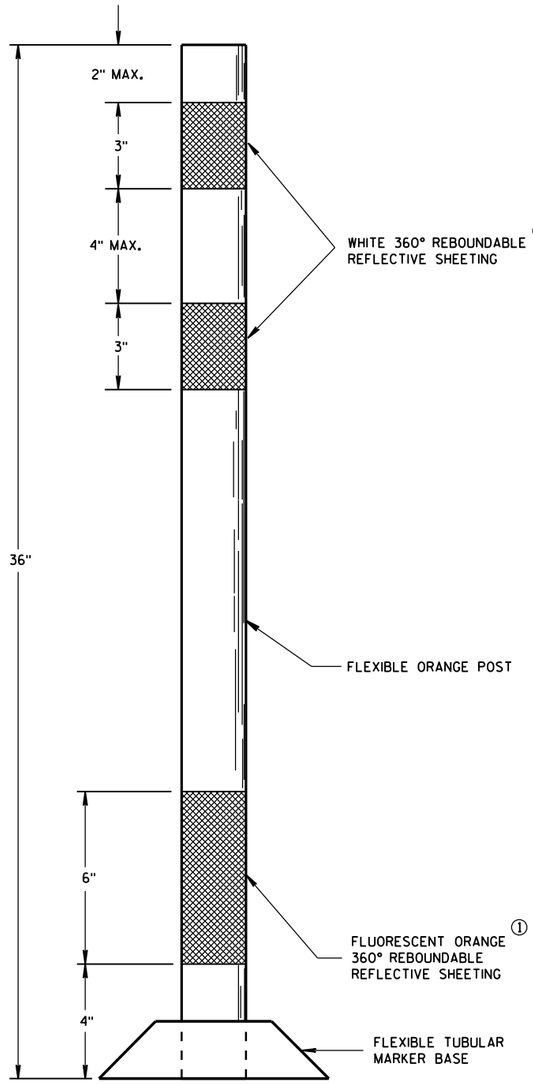
S.D.D. 15 C 8-18b



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

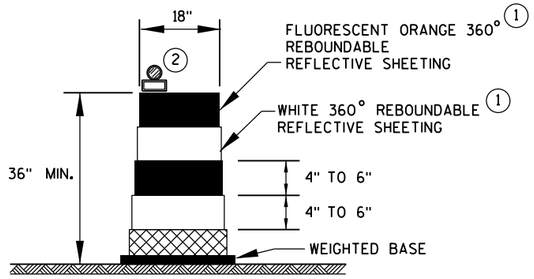
CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

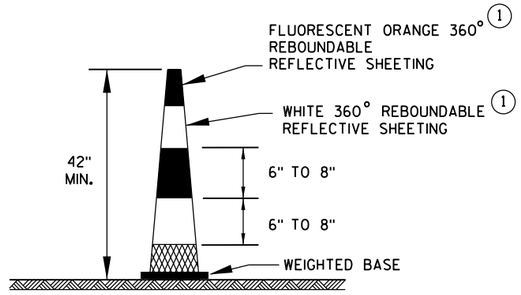
APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGR
FHWA

6

S.D.D. 15 C 11-7a



DRUM

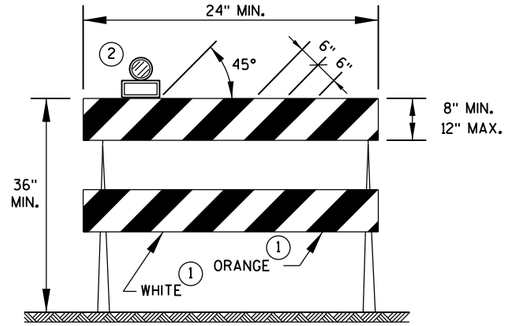


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

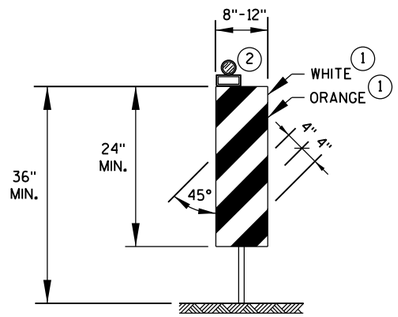
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



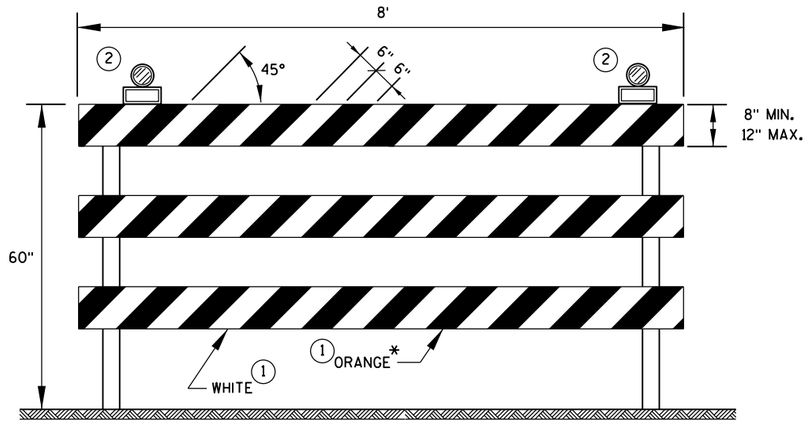
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Andrew Heidtke — WORK ZONE ENG

FHWA

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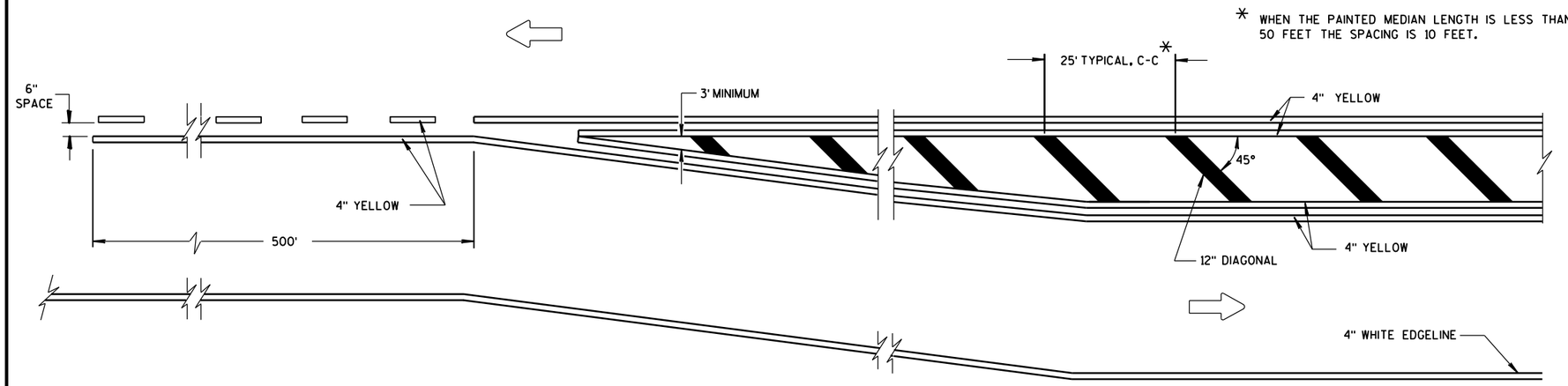
S.D.D. 15 C 11-7b

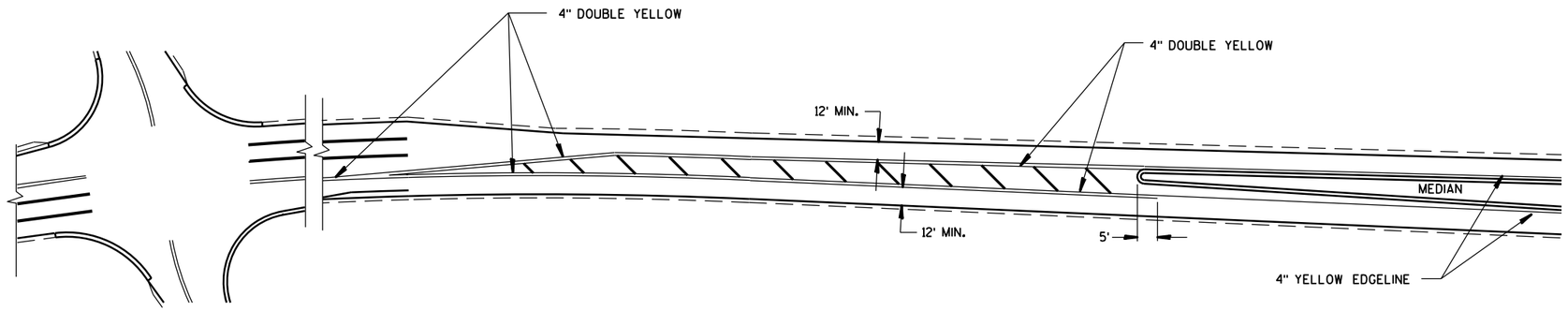


MEDIAN ISLAND DETAIL

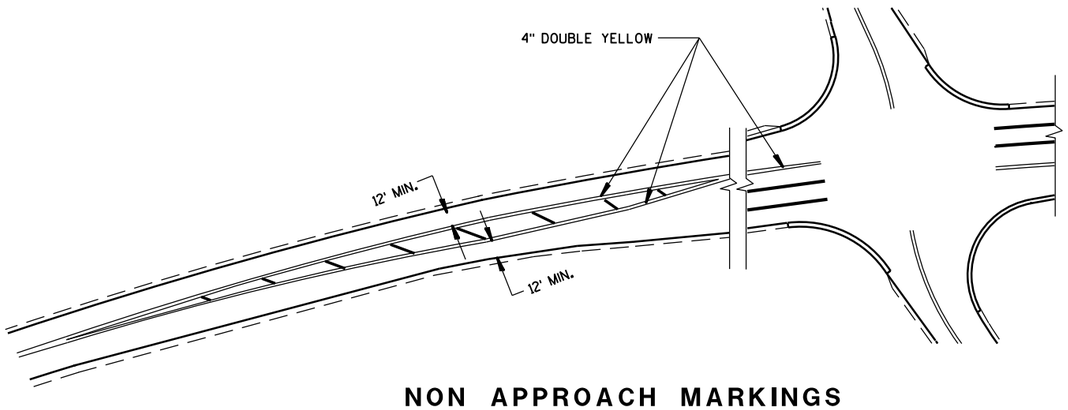
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE FHWA	/S/ Matthew Rauch STATE SIGNING AND MARK 489 EER

6

S.D.D. 15 C 18-4

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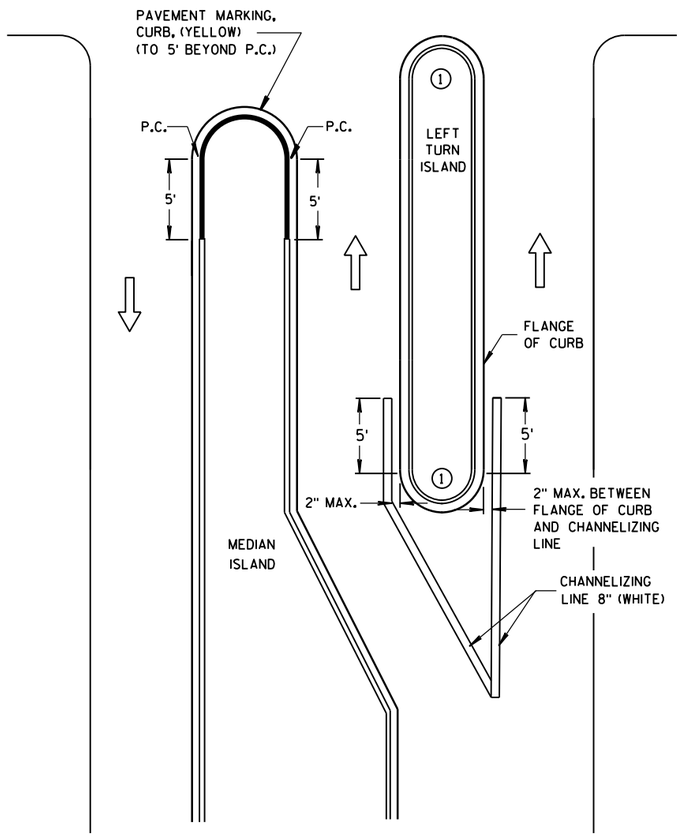
S.D.D. 15 C 18-4

GENERAL NOTE

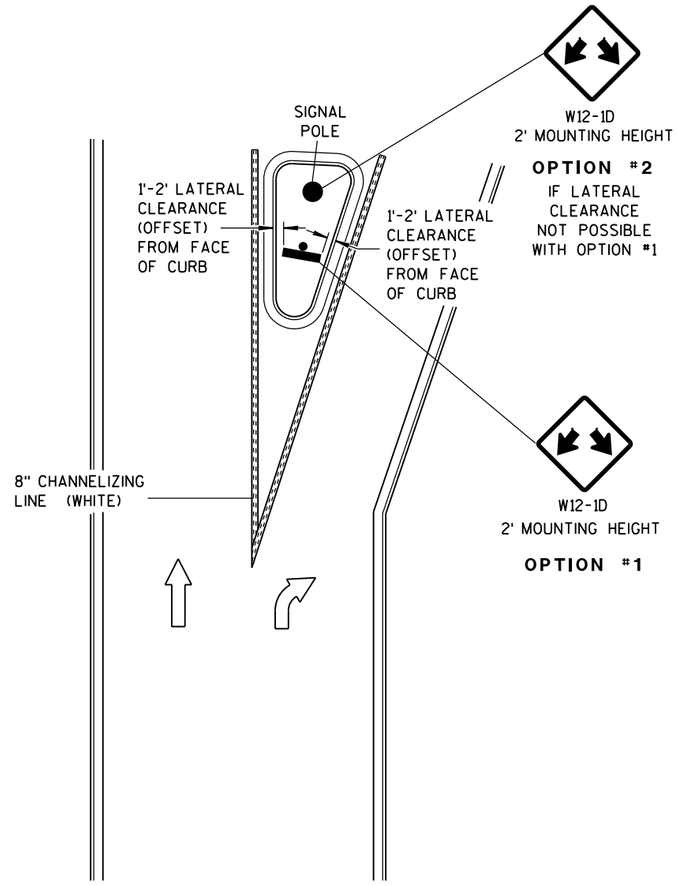
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

DIRECTION OF TRAVEL



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

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S.D.D. 15 C 27-2a

DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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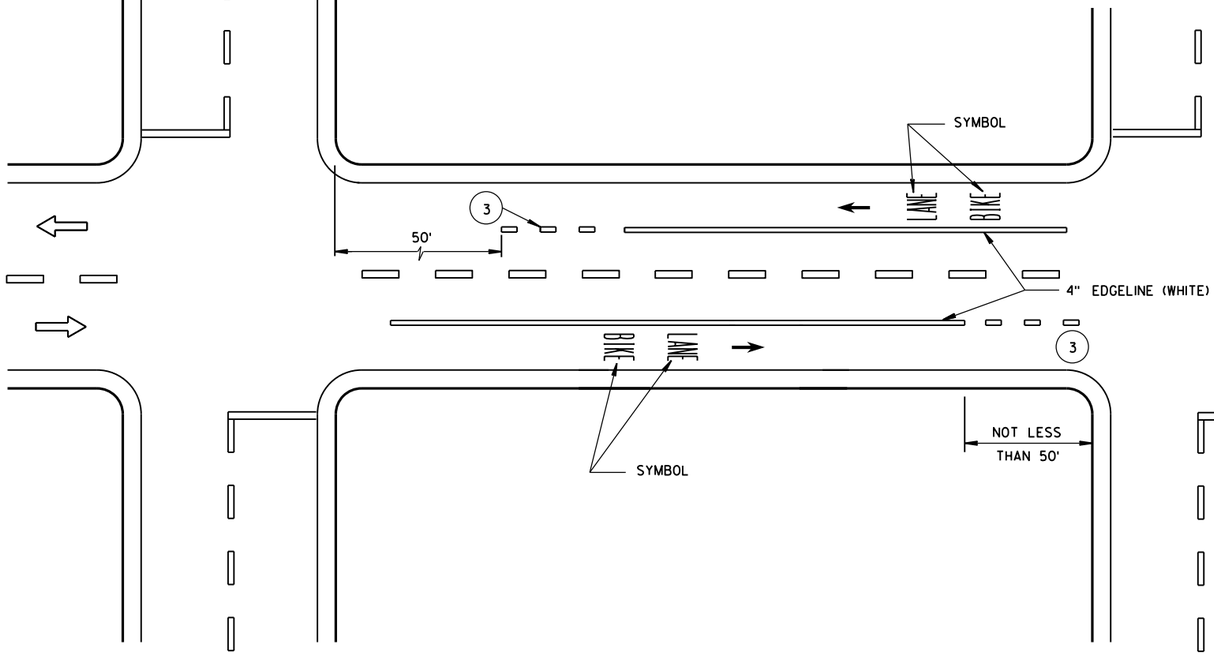
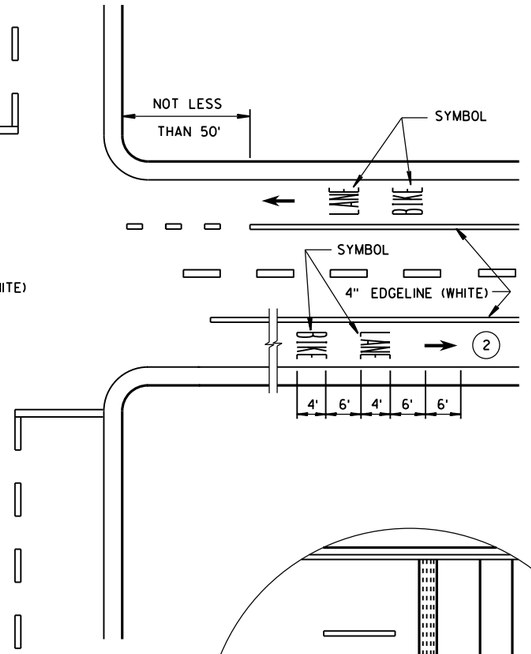
S.D.D. 15 C 27-2a



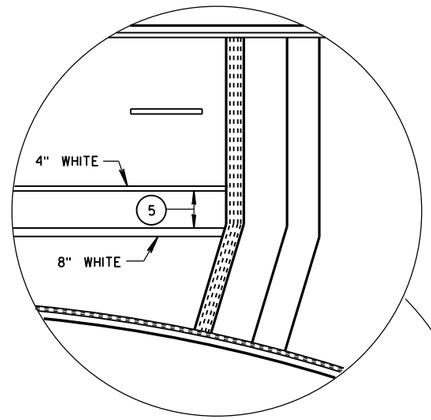


DESIGNATED BICYCLE LANE
NO PARKING

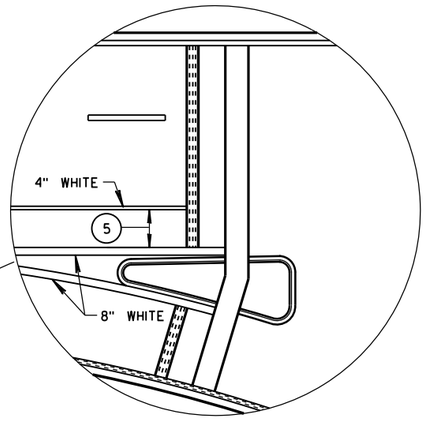
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMODATION FOR CONCRETE PAVEMENT IS 5 FEET WIDE. BIKE ACCOMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4 FEET. USE 5 FEET AT ≥45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

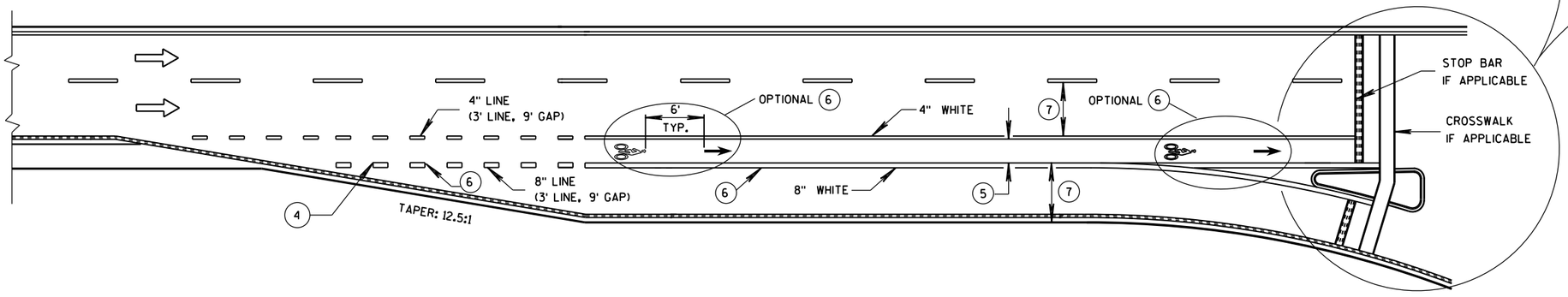
⇨ DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

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S.D.D. 15 C 29-5a

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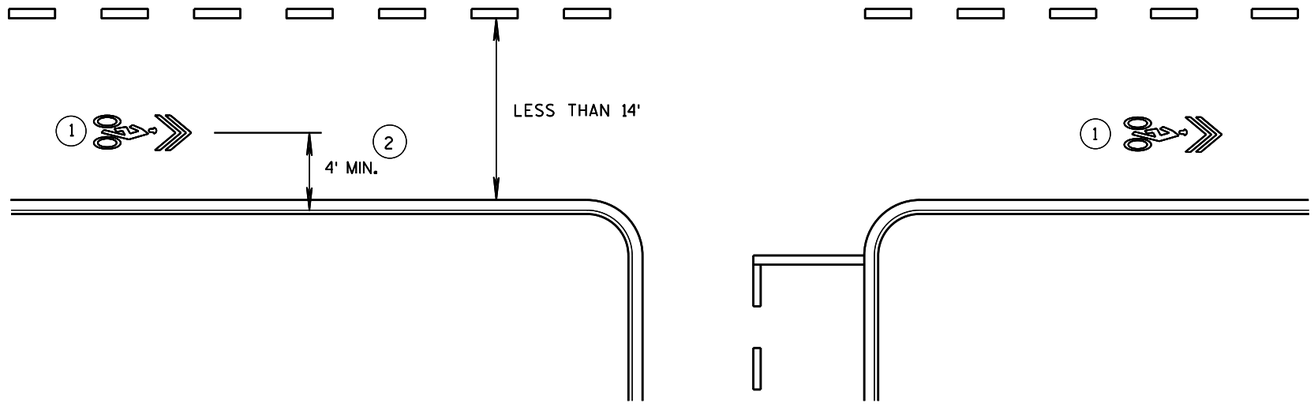
S.D.D. 15 C 29-5a

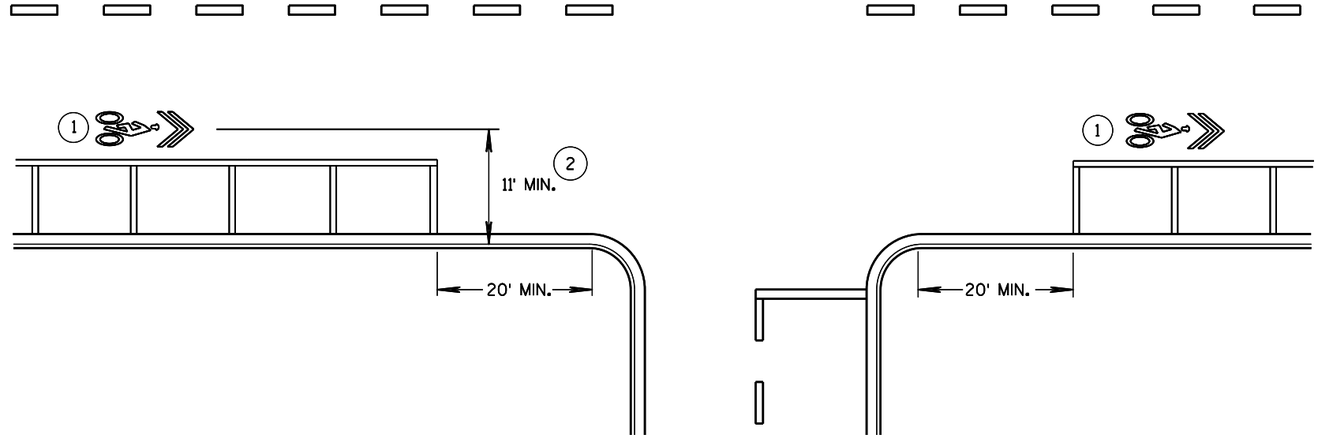
GENERAL NOTES

(1) MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.

(2) OR TO EDGE OF PAVEMENT WITHOUT CURB.



WITHOUT PARKING



WITH PARKING

PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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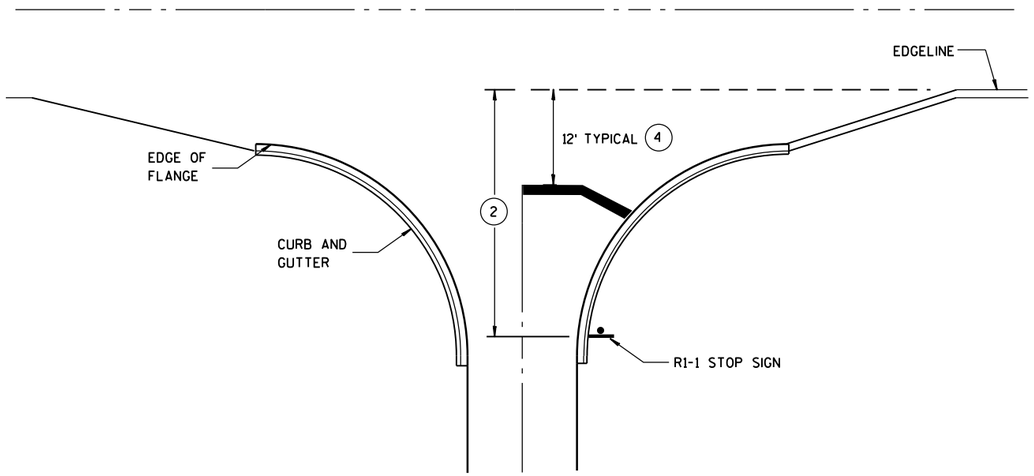
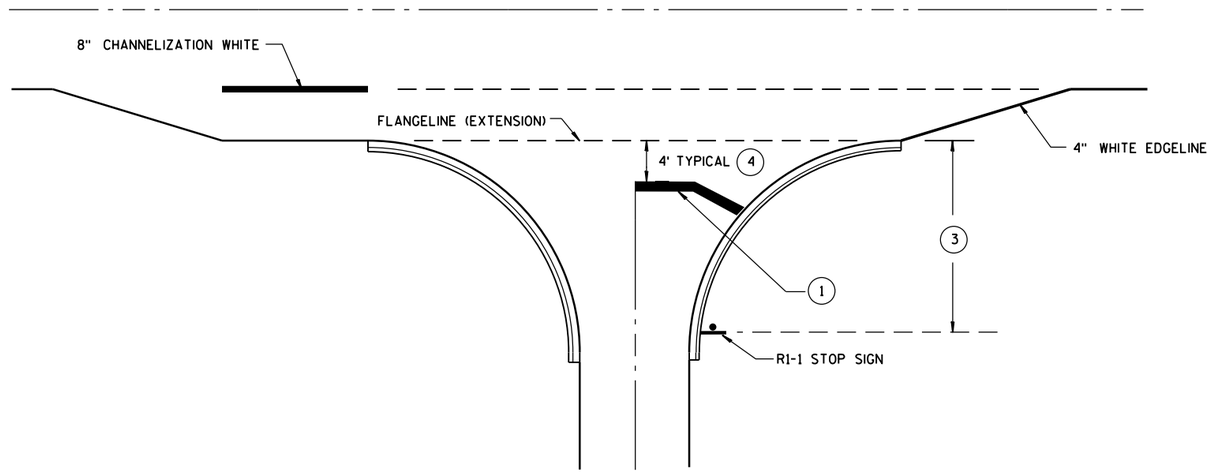
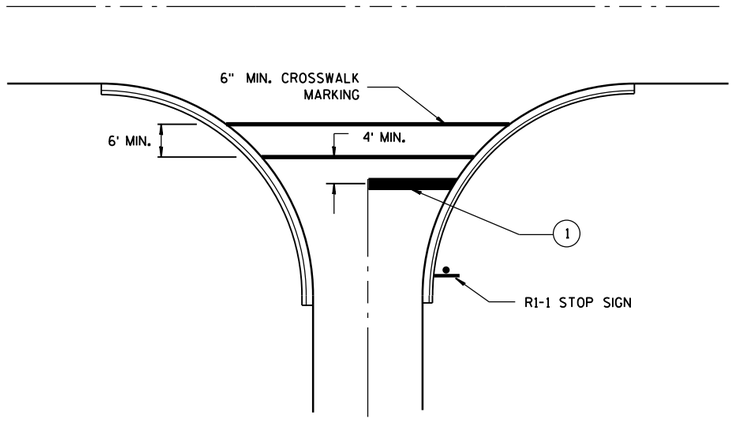
S.D.D. 15 C 29-5b



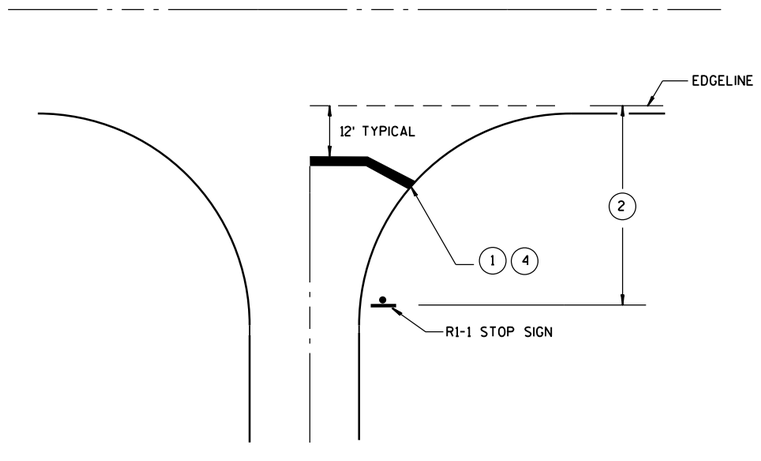
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 493 NEER

FHWA

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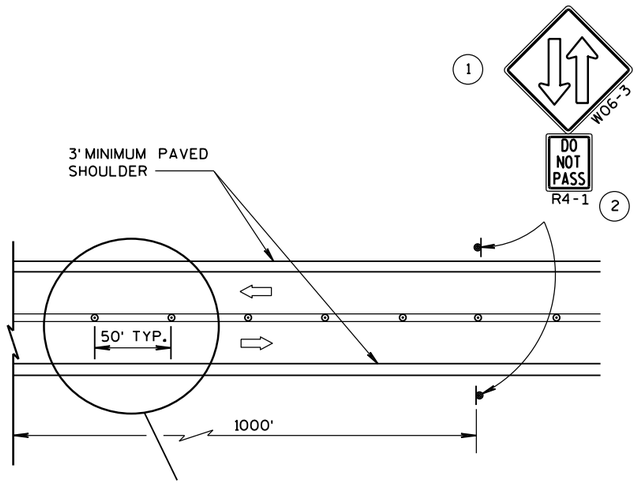
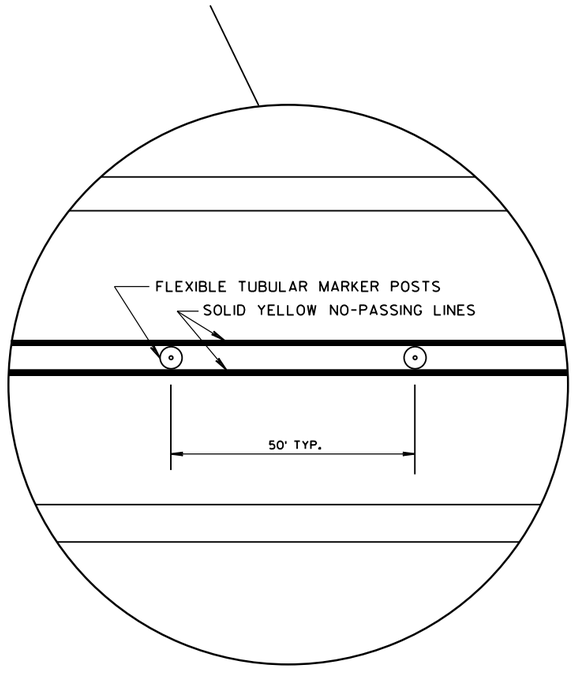
S.D.D. 15 C 33-2



TWO LANE, TWO WAY OPERATION



GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

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

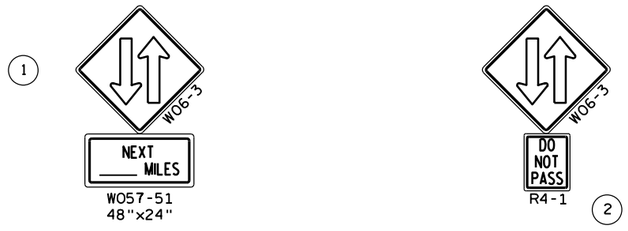
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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 DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013	/S/ Travis Feltes	
DATE	STATE TRAFFIC ENGINEER	SIGN

FHWA

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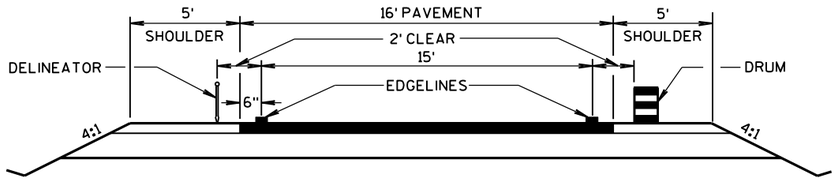
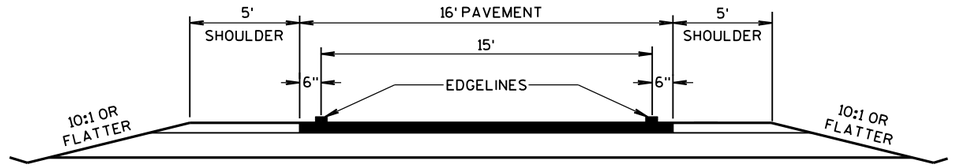


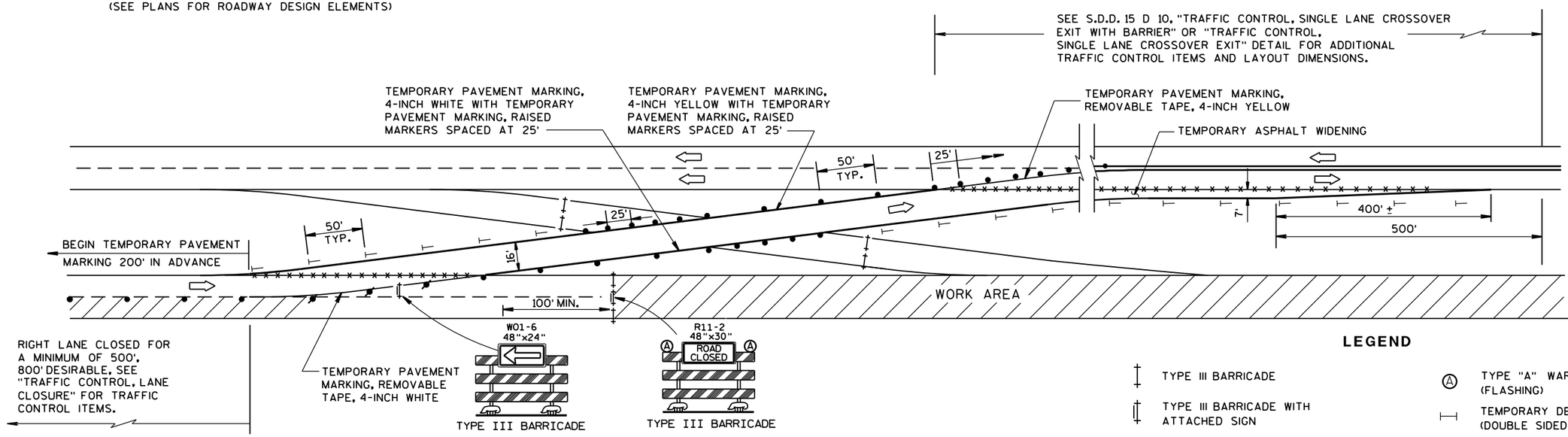
TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS

(SEE PLANS FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS

(SEE PLANS FOR ROADWAY DESIGN ELEMENTS)



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TYPE "A" WARNING LIGHT (FLASHING)
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- REMOVING PAVEMENT MARKINGS
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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 PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

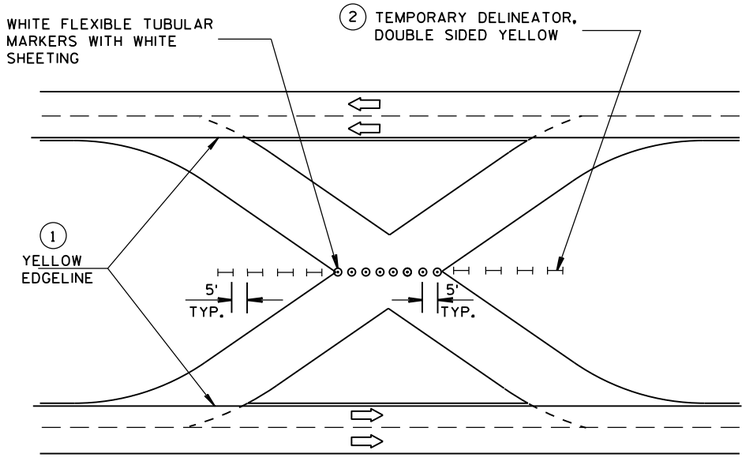
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

(1) FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

(2) FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-2015 DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGINI IC
FHWA

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S.D.D. 15 D 11-6

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" 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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

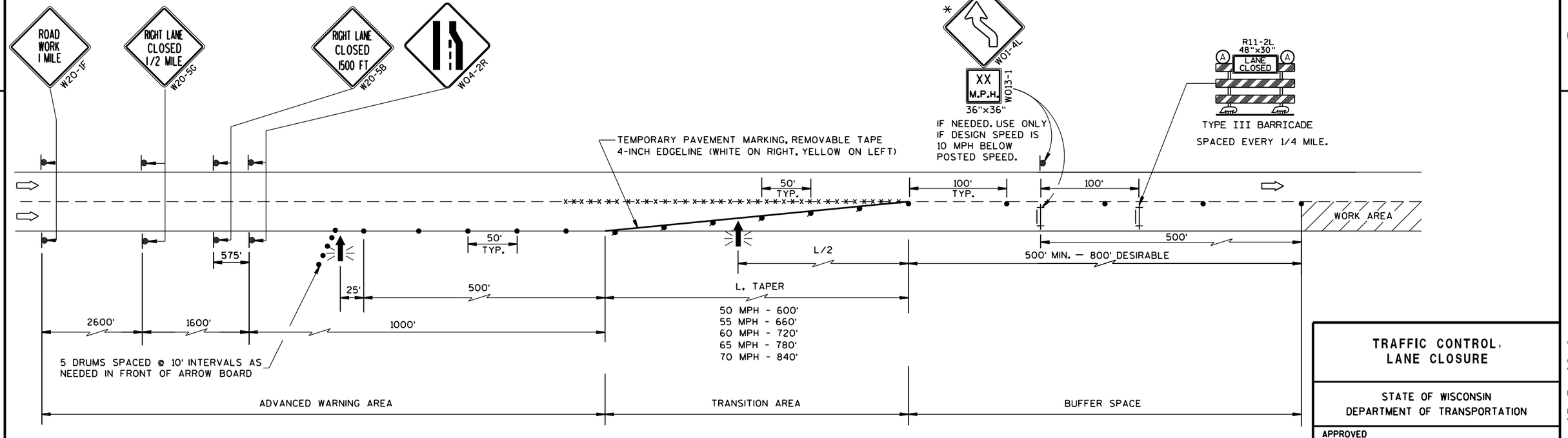
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI IC
FHWA

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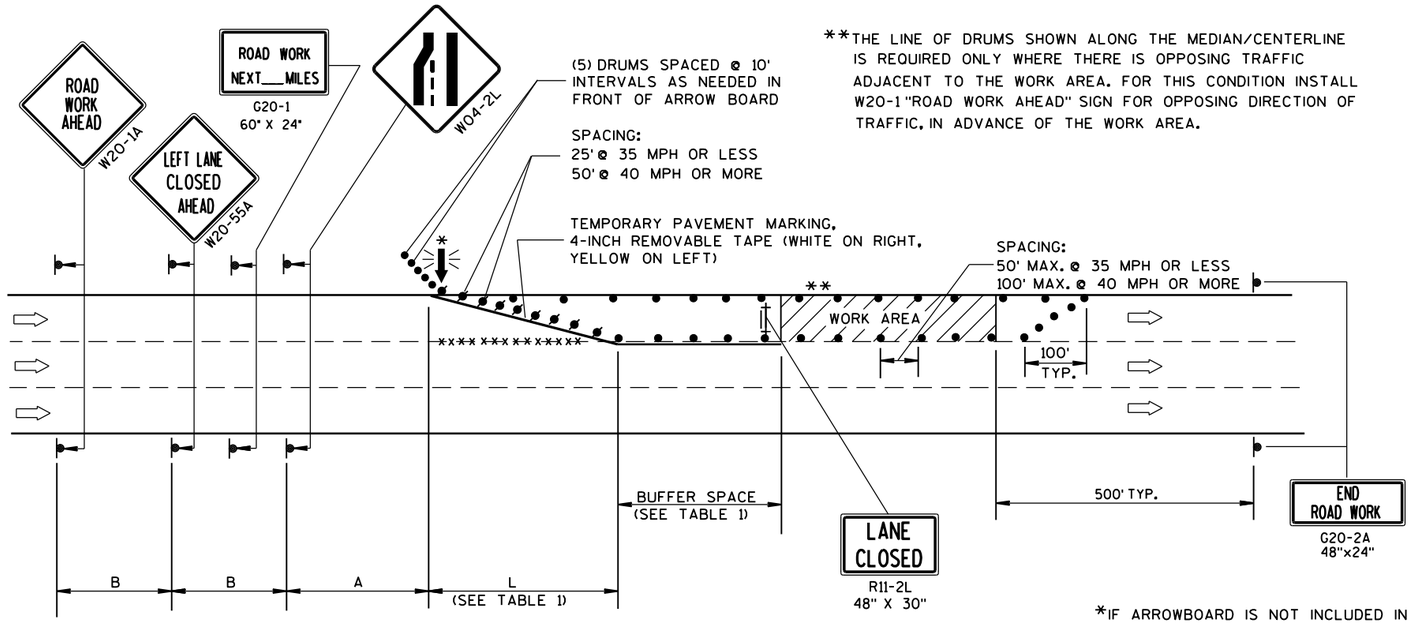
S.D.D. 15 D 12-6a



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

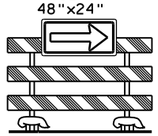


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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 TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER

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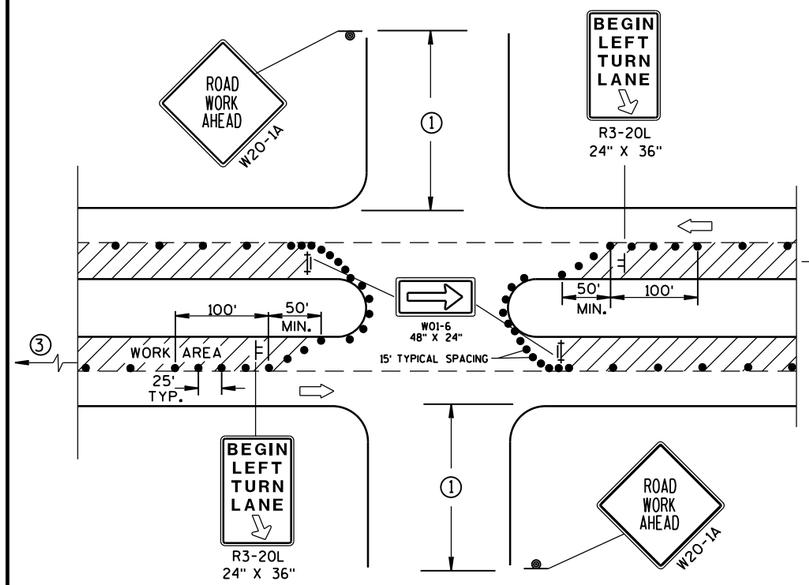
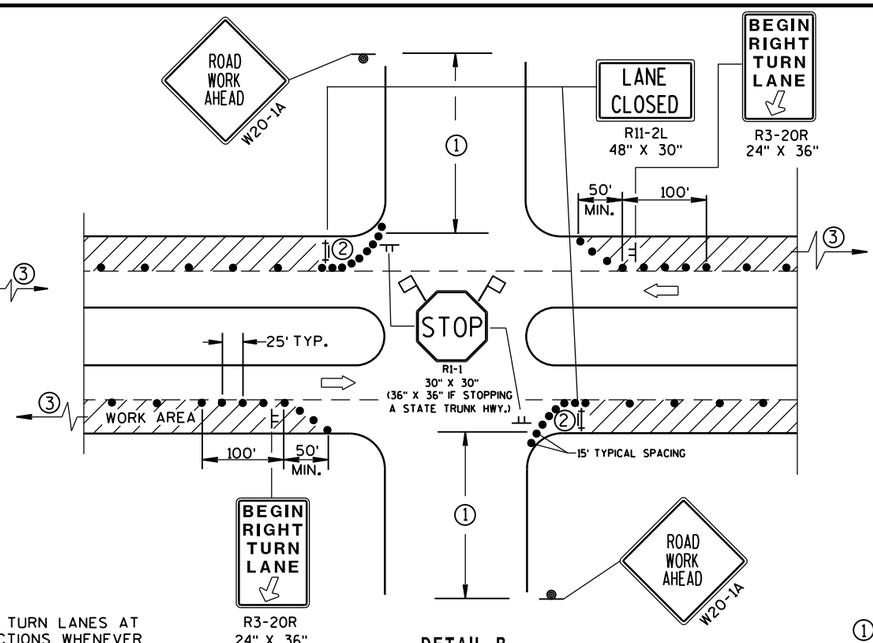


DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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 SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

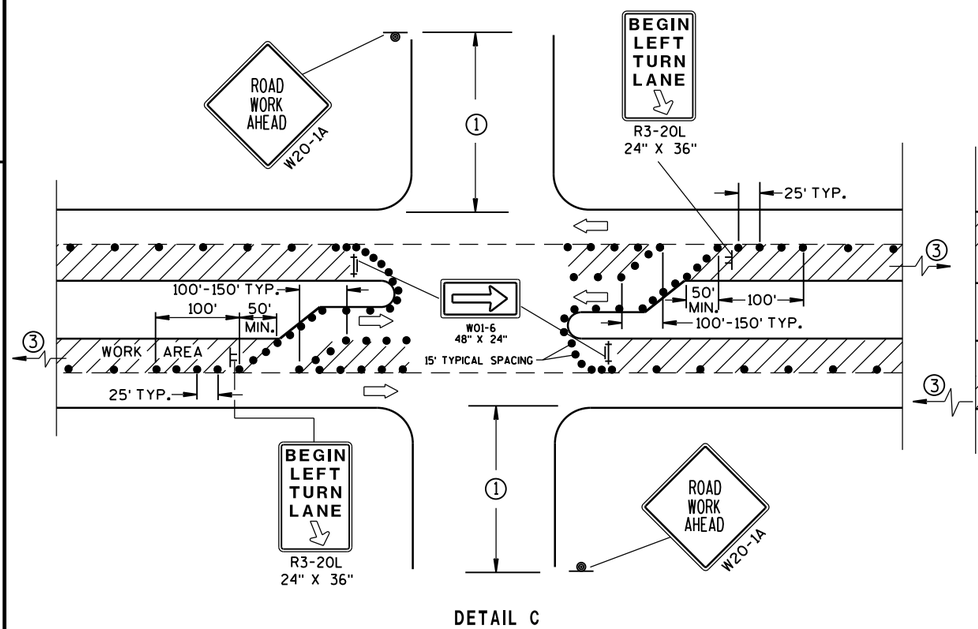
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

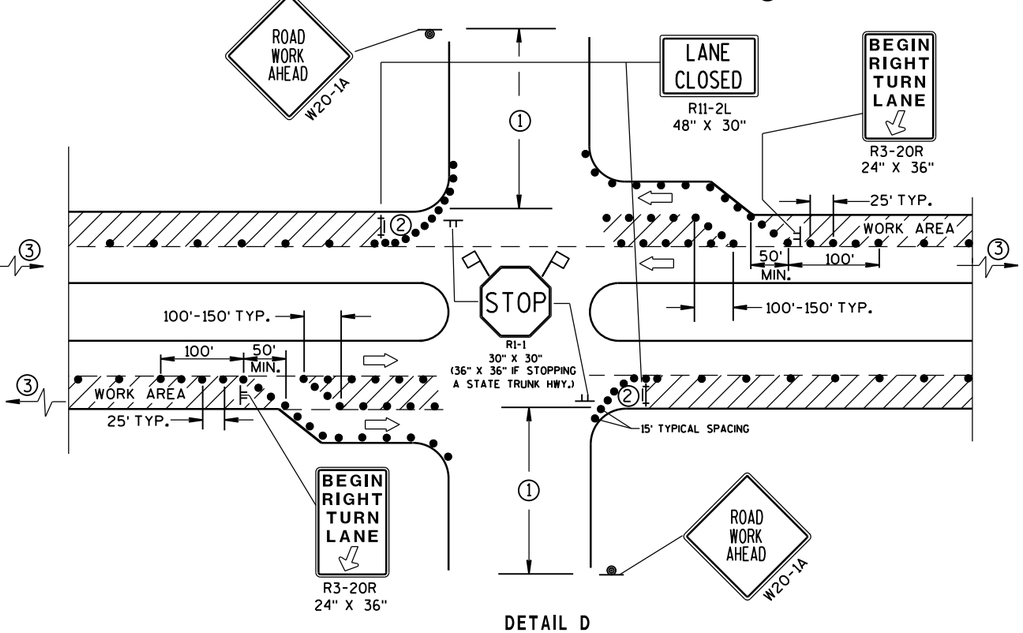
② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Anakobe Atepe — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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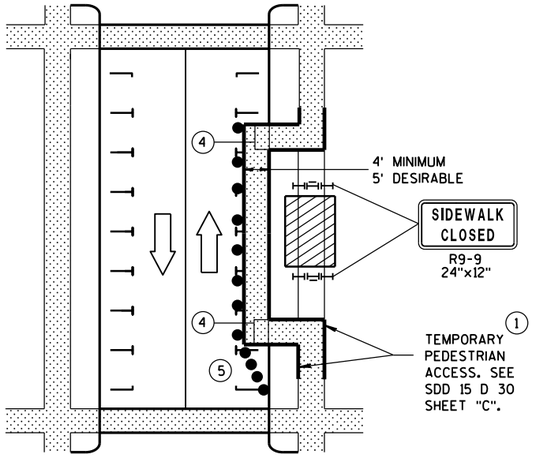
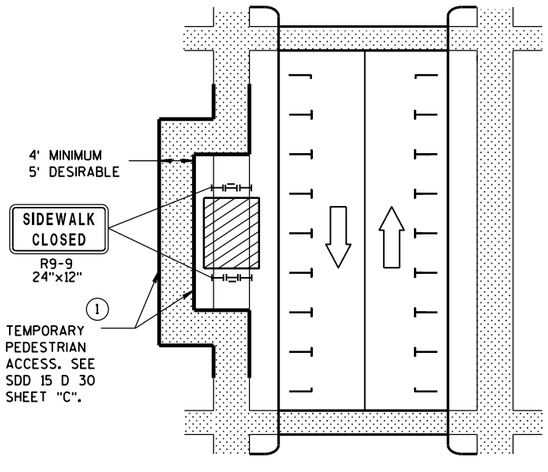
NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

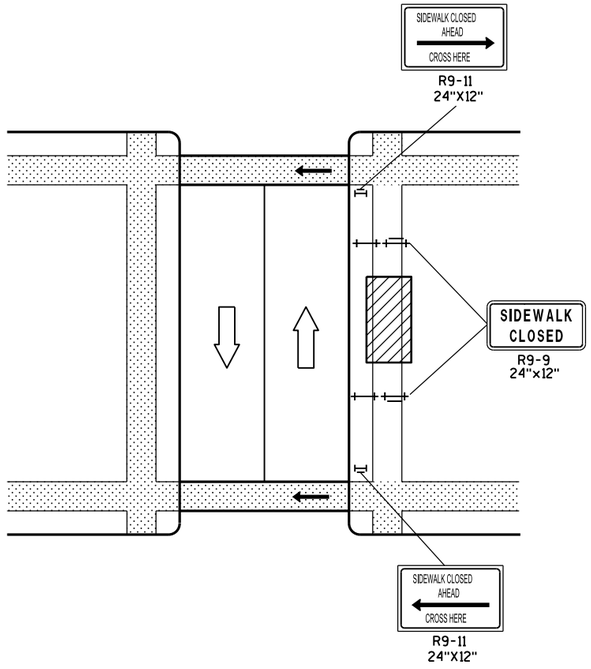


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

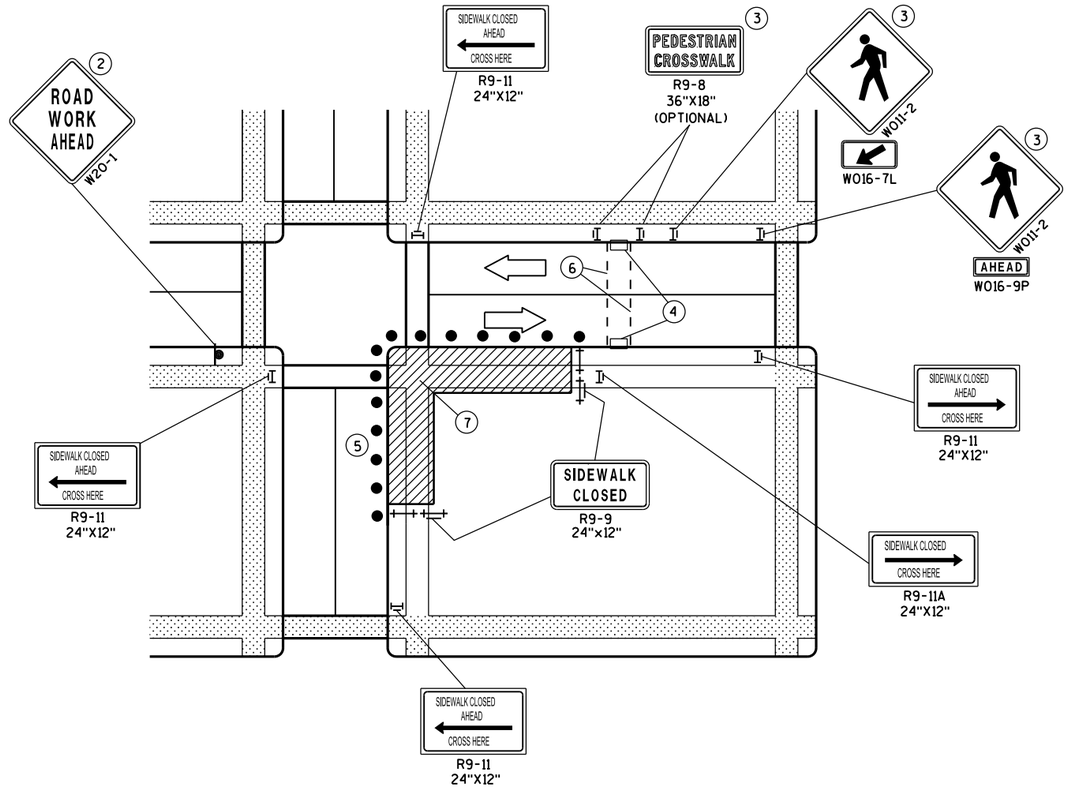
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

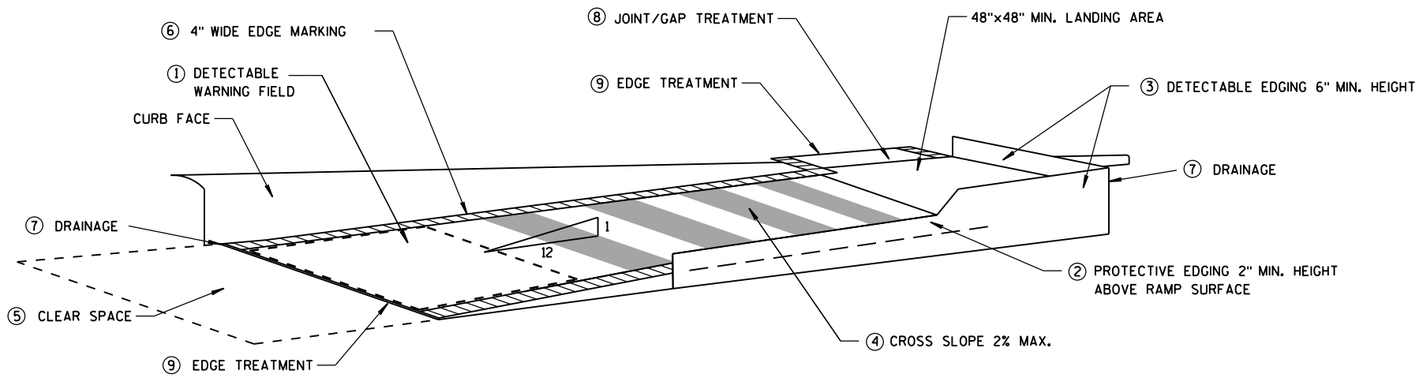
LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

S.D.D. 15 D 30-3a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

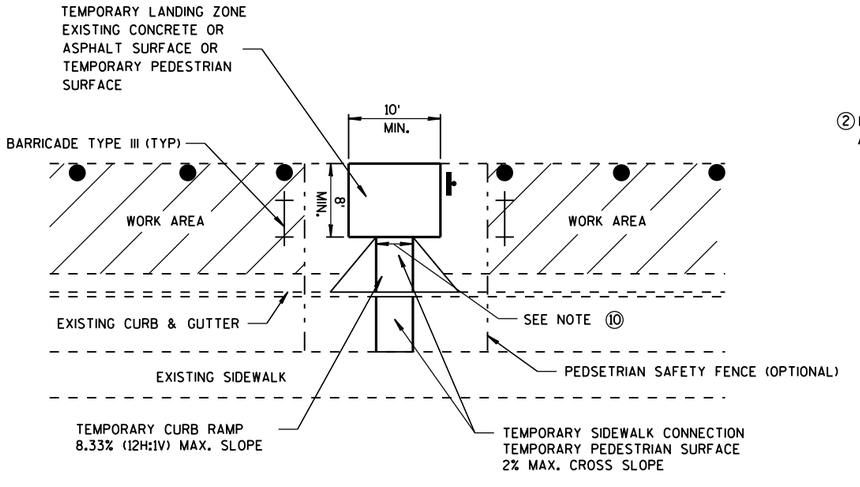
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

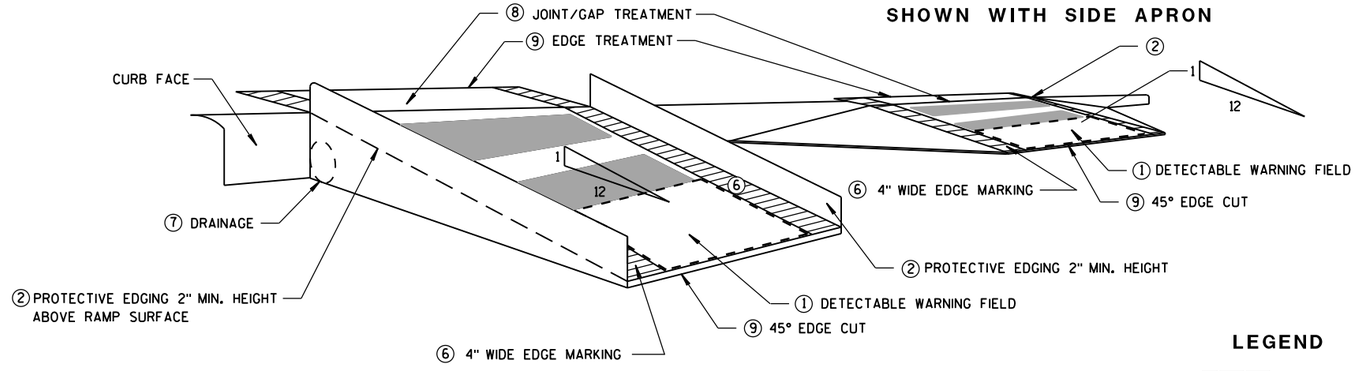
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

SHOWN WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016
DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

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S.D.D. 15 D 30-3b

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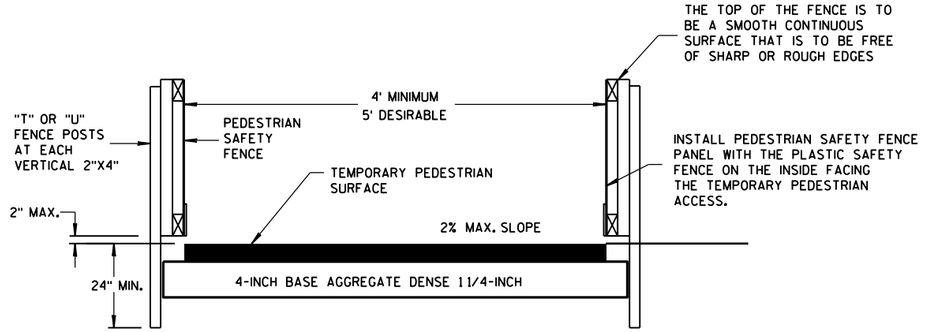
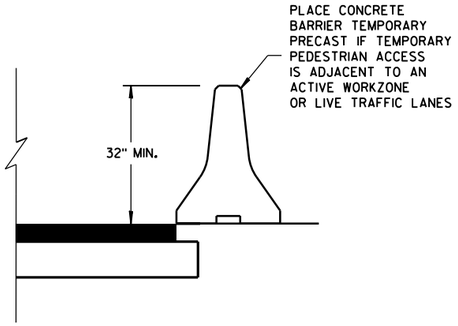
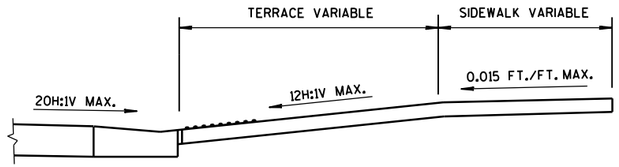




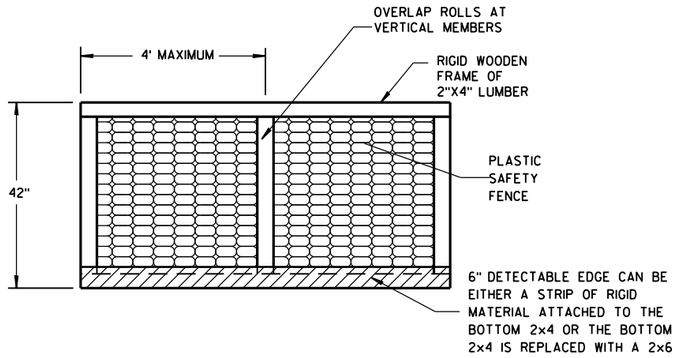
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

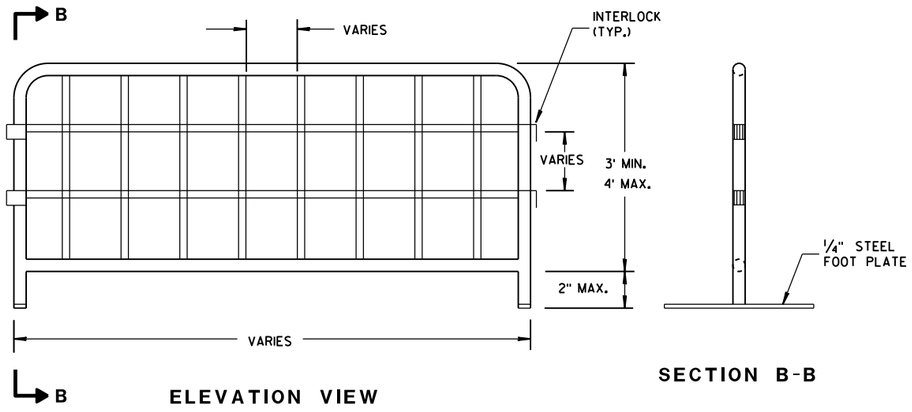
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



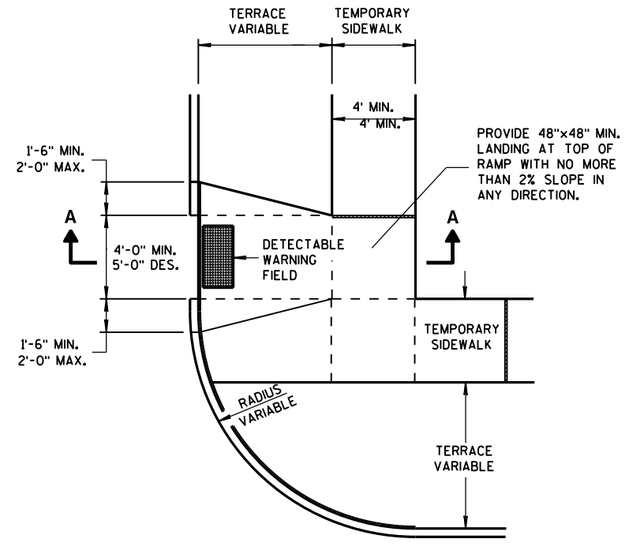
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

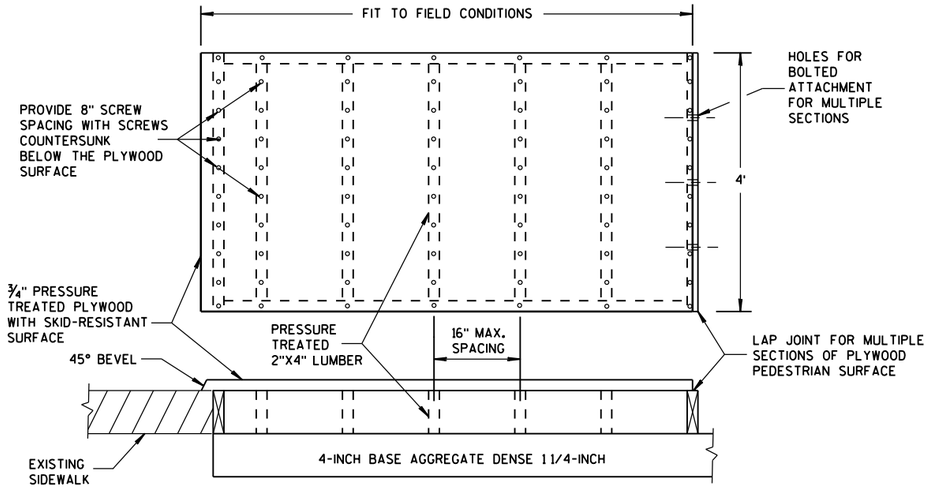
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



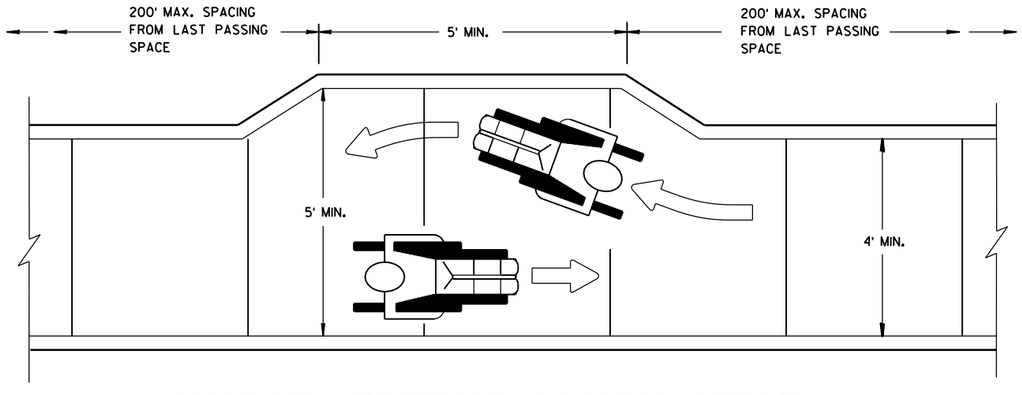
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016
DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGIN IC
FHWA

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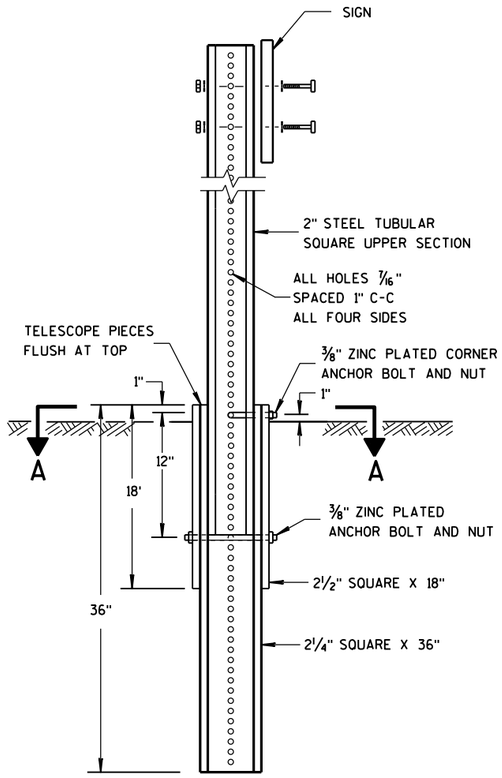
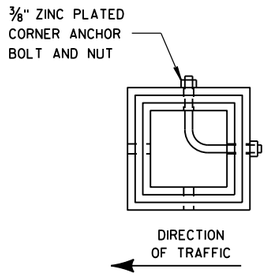
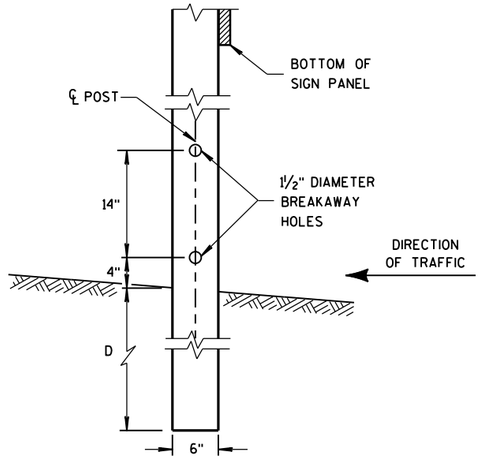


DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



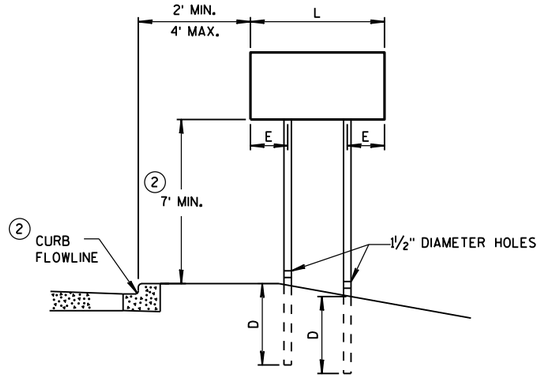
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

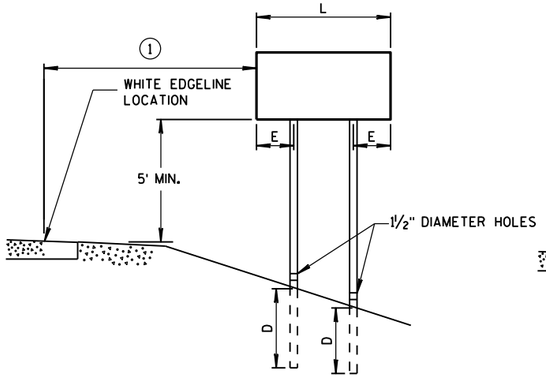
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

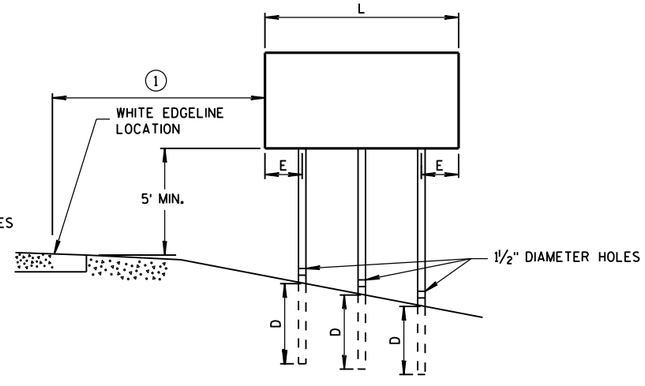
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

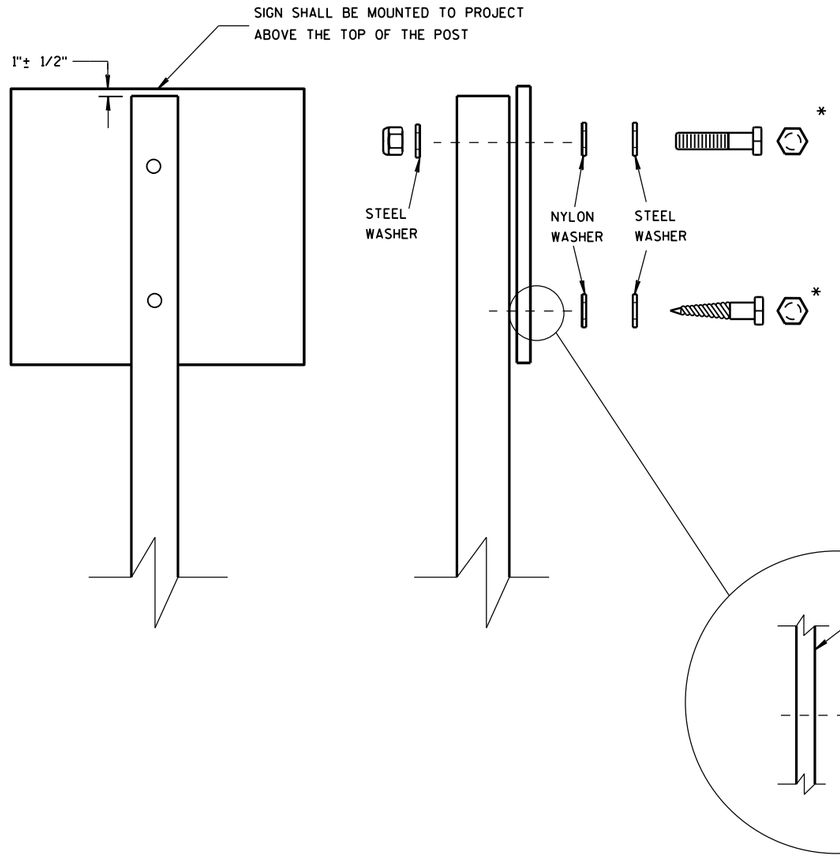
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

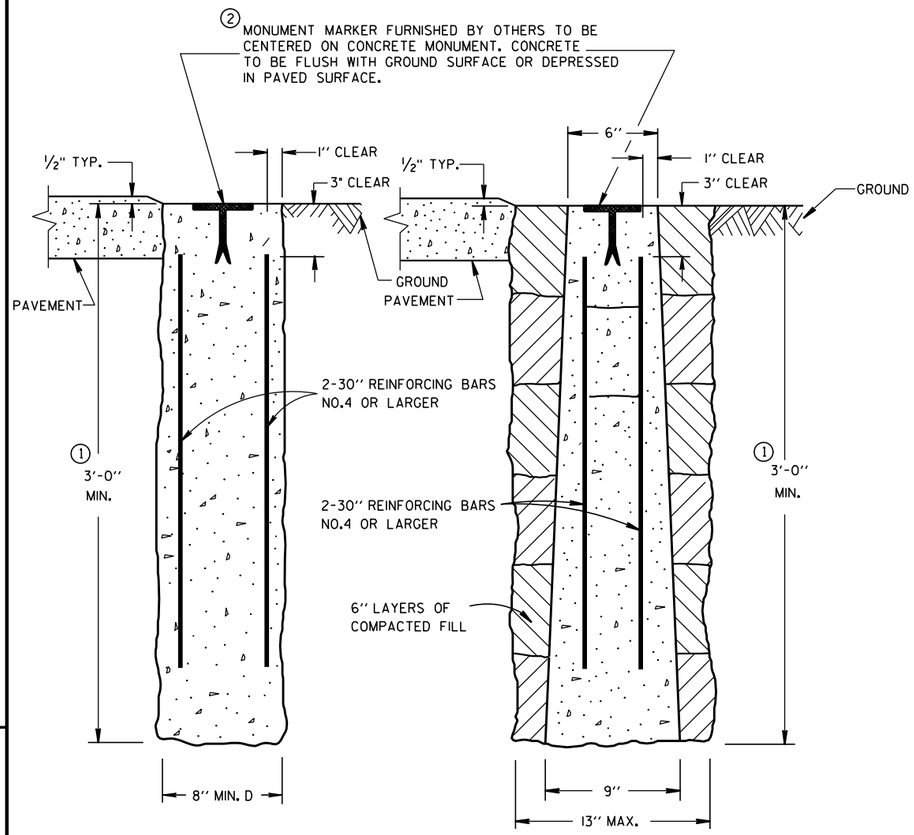
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

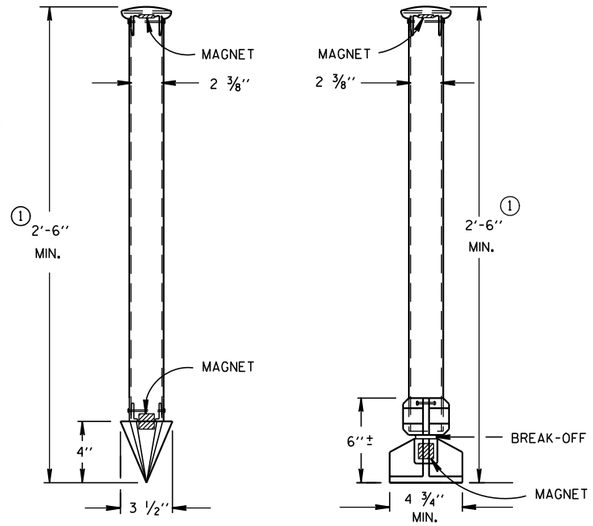
FHWA



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

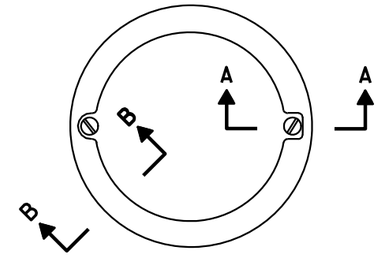
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

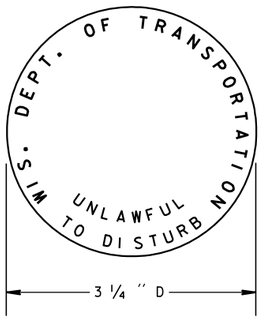
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

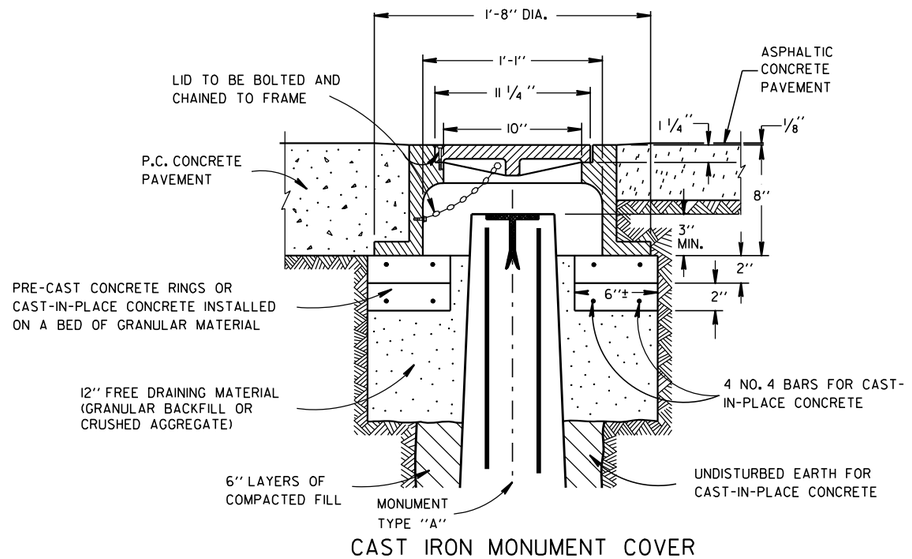


TOP VIEW



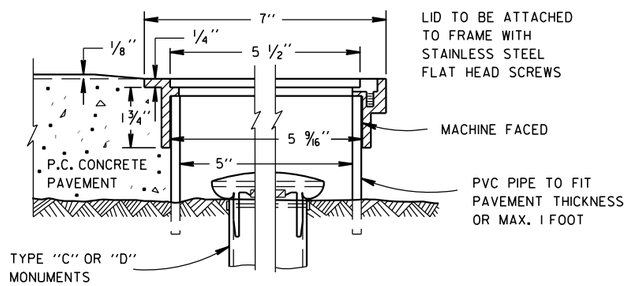
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

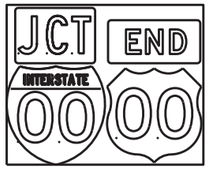
S.D.D. 16 A 1-6

6

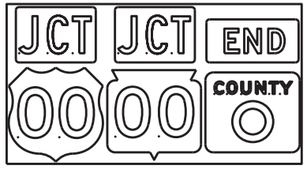
S.D.D. 16 A 1-6

TYPICAL ASSEMBLIES

J1-1

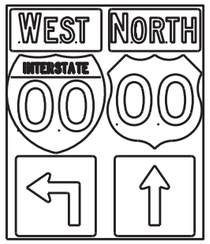


J1-2

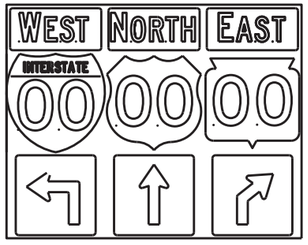


J1-3

J2-1



J2-2

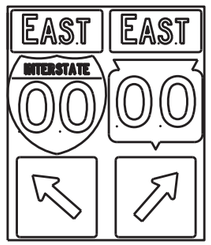


J2-3

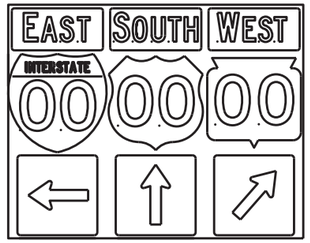
JV

(Typical Vertical J-Assembly
See Note 10 and 11)

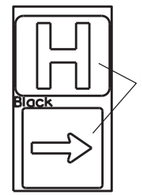
J3-1



J3-2

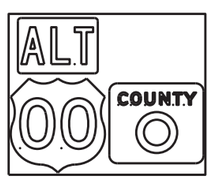


J3-3

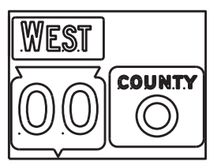


JH-1

J4-1



J4-2



J4-2

J13-1

J12-1

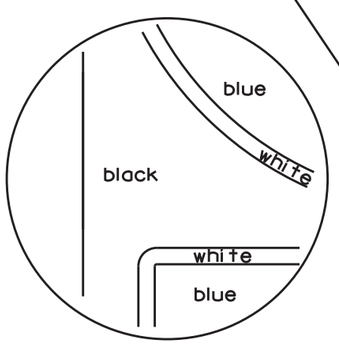
J32-1

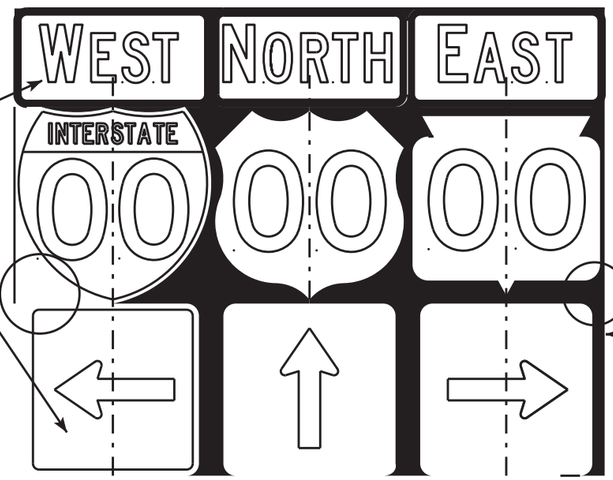
J33-1

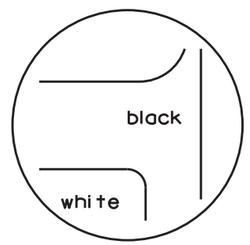
J23-1

J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

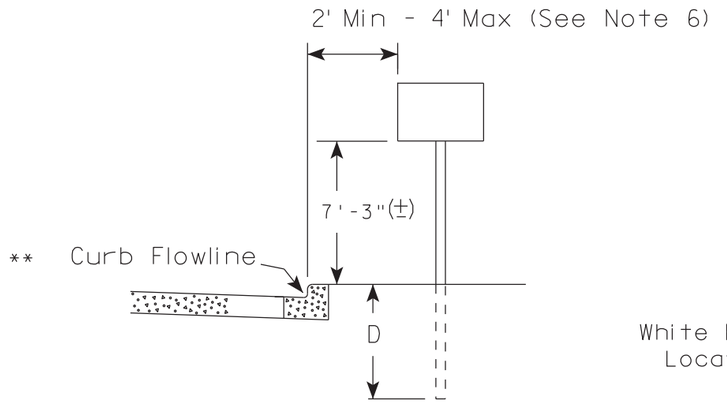
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

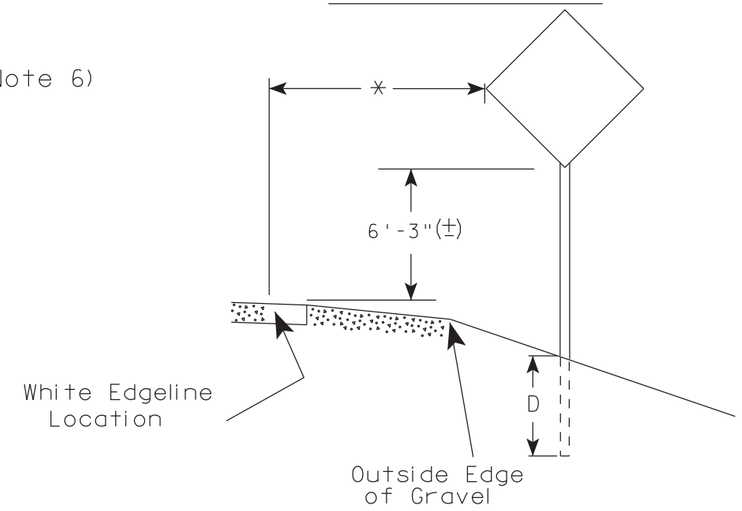
DATE 2/06/14 PL... A2-1S.8

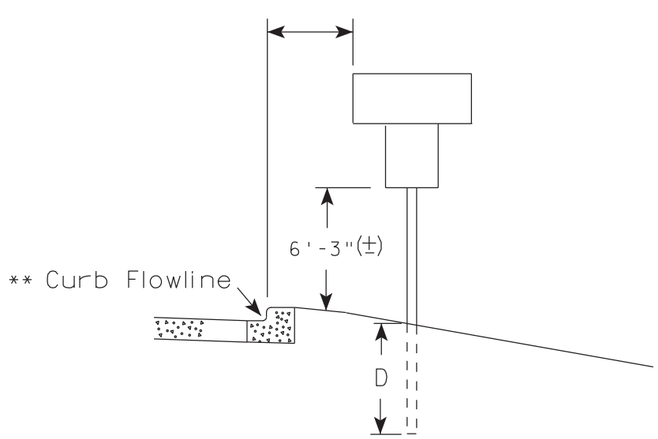
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO: E

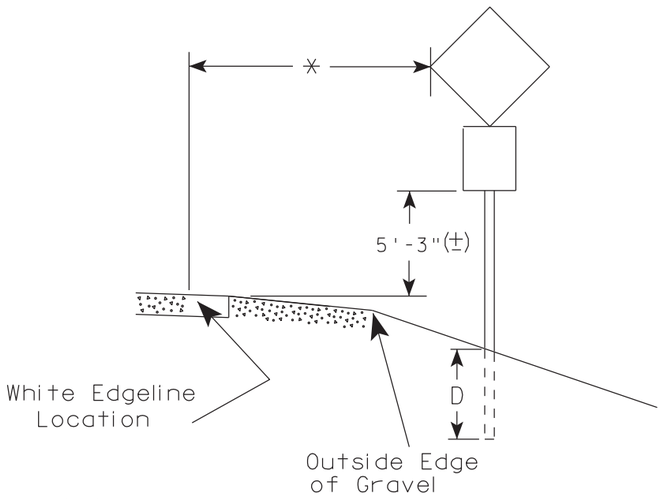
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

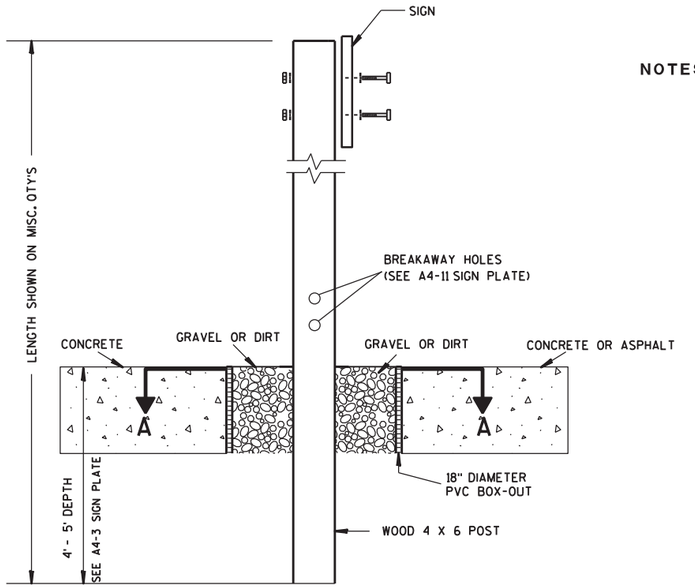
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

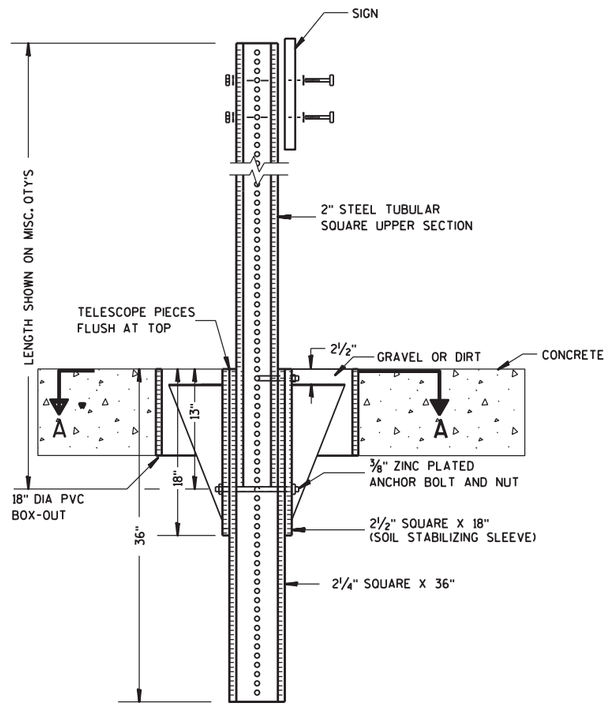
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO:	E



ELEVATION VIEW

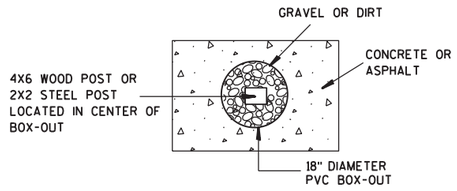
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

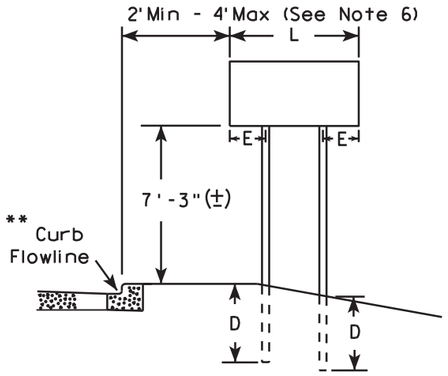
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 1/27/14 PLATE NO. A4-3B.1

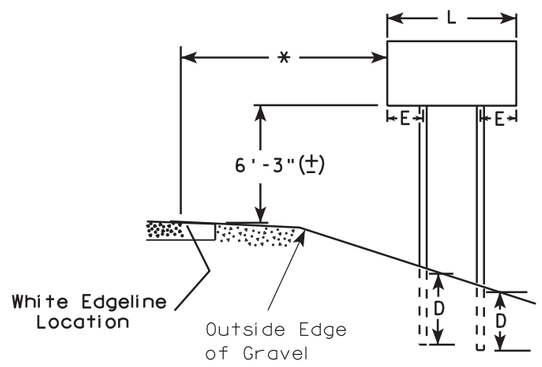
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO:	E

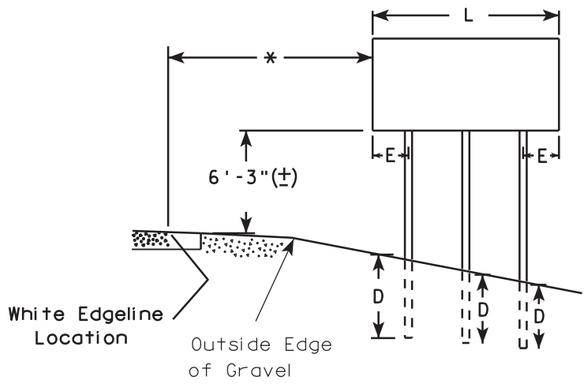
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42

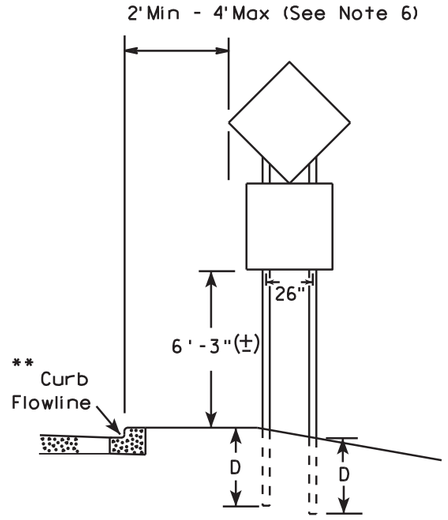
URBAN AREA



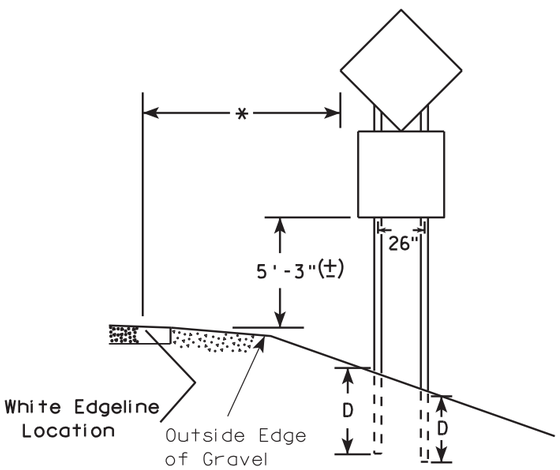
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

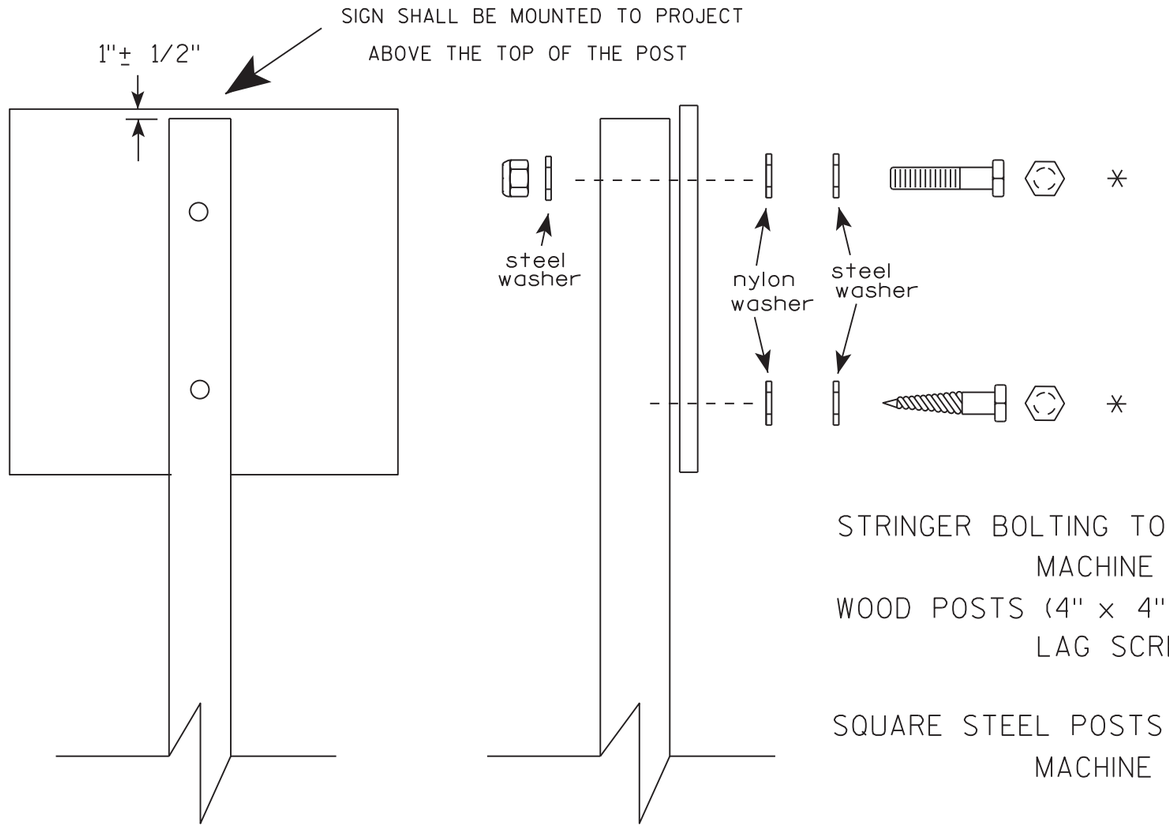
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 508 14

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO:	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL

O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

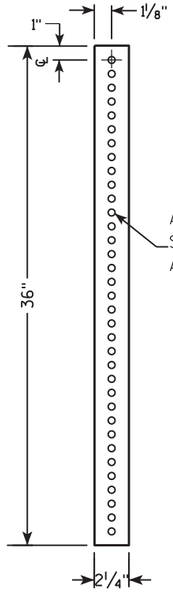
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO:	E

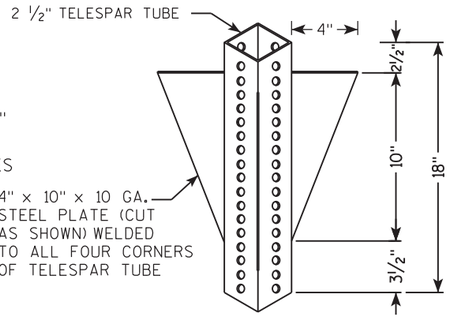
FILE NAME : C:\CAEfiles\Projects\tc_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

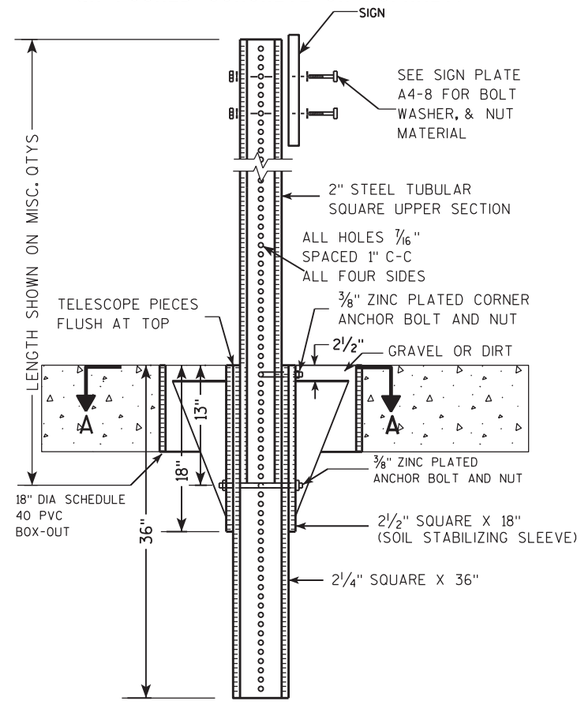
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



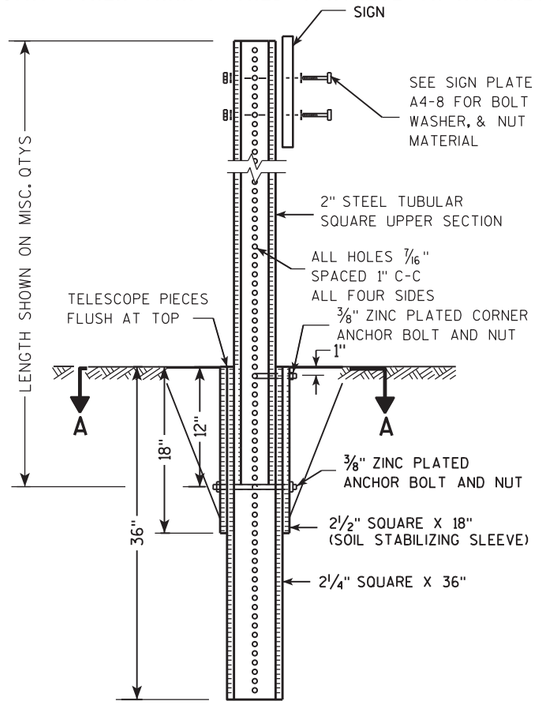
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

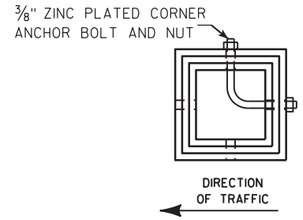


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

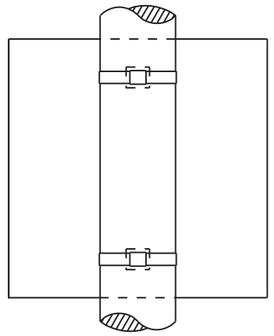
APPROVED Matthew R Rauch
for State Traffic Engineer

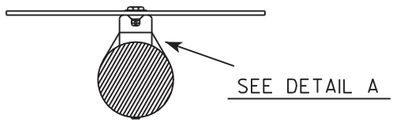
DATE 2/05/15 PLATE 510 A4-9.9

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO:	E

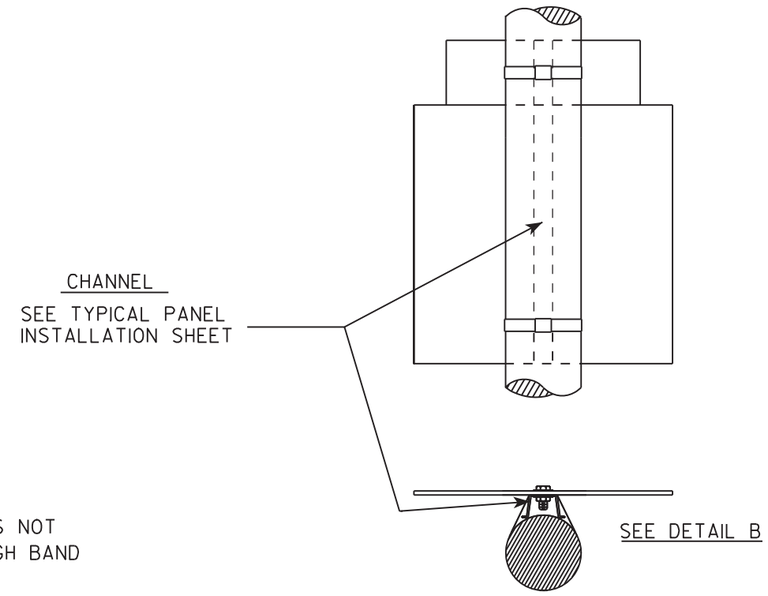
BANDING

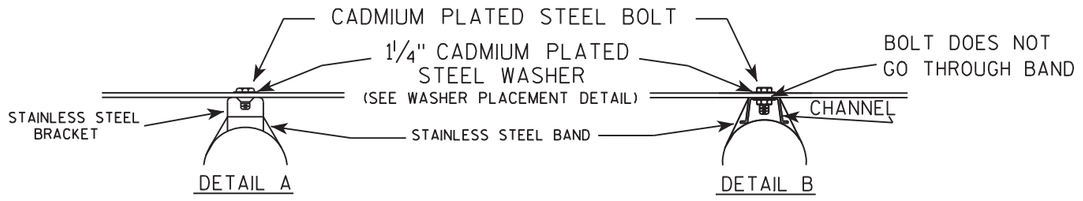
SINGLE SIGN



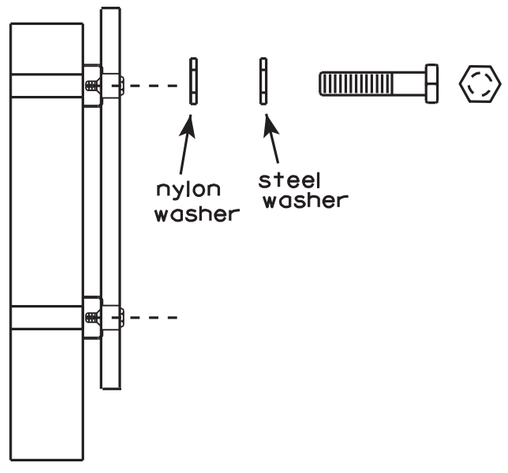


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

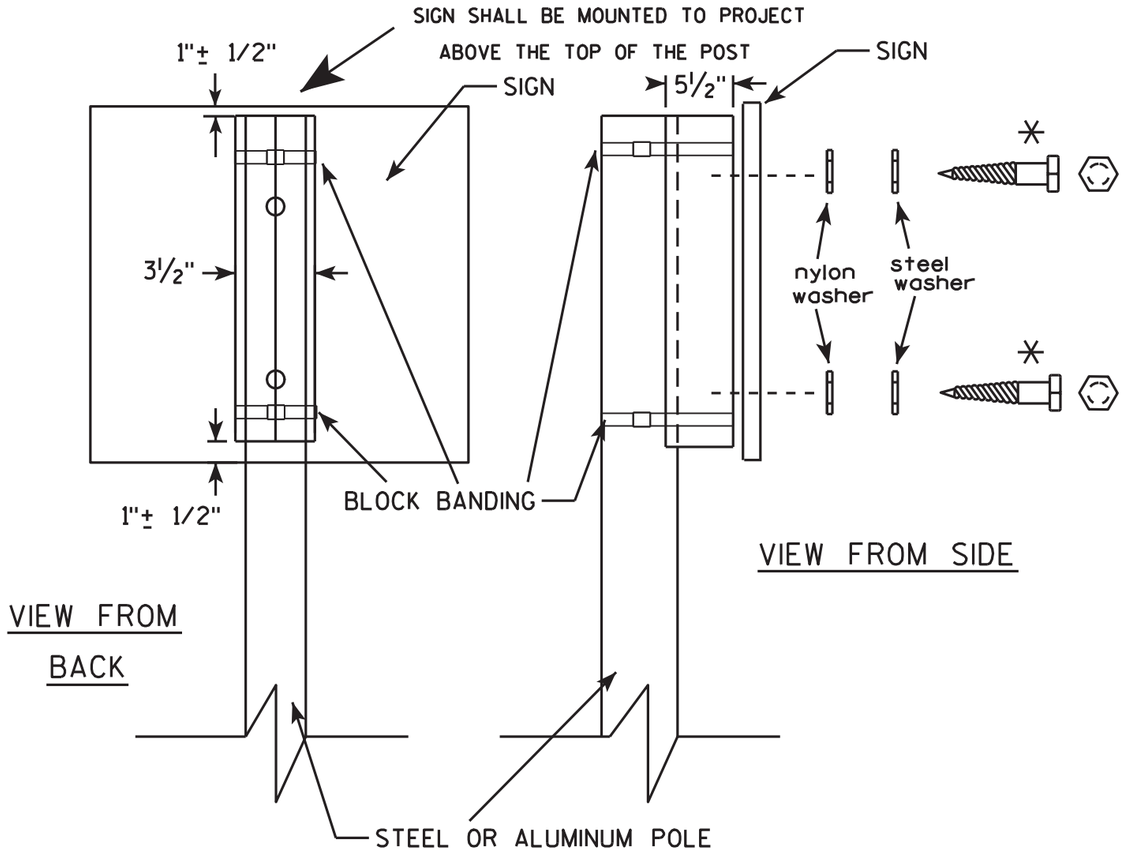
STANDARD SIGN
SIGN BANDING DETAILS

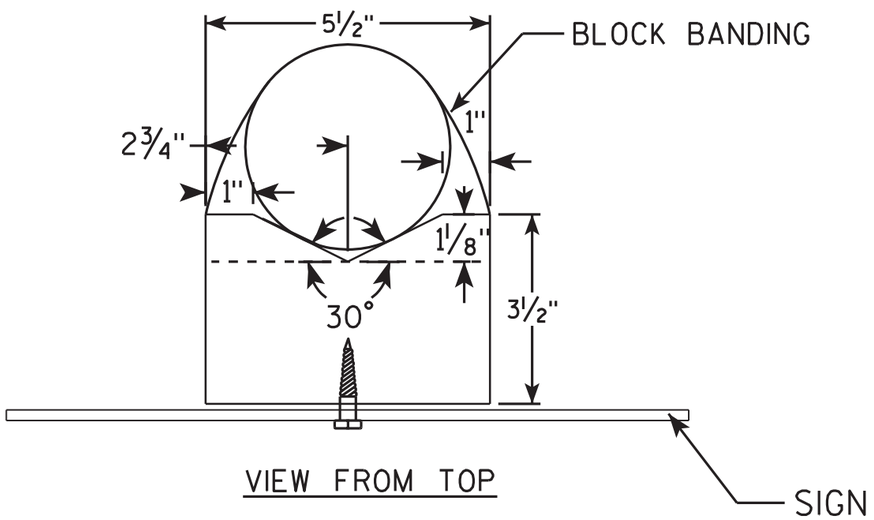
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO: 511	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

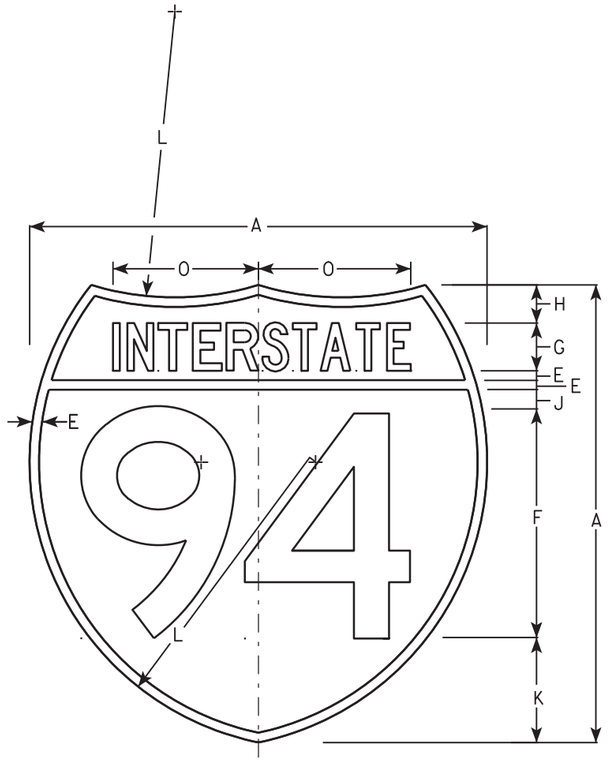
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

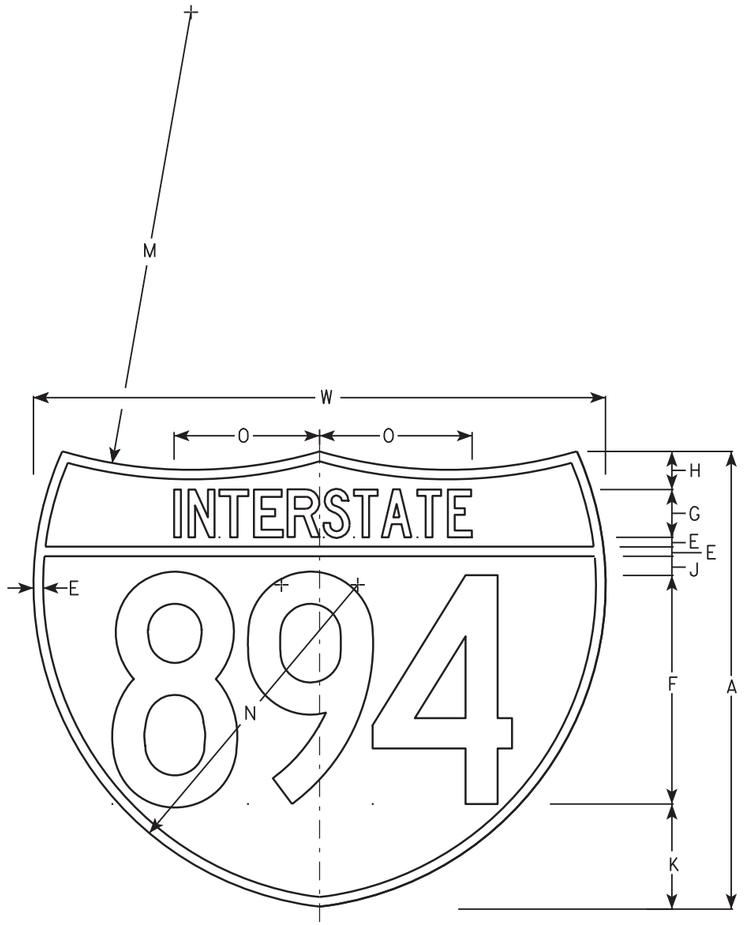
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO: 512	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

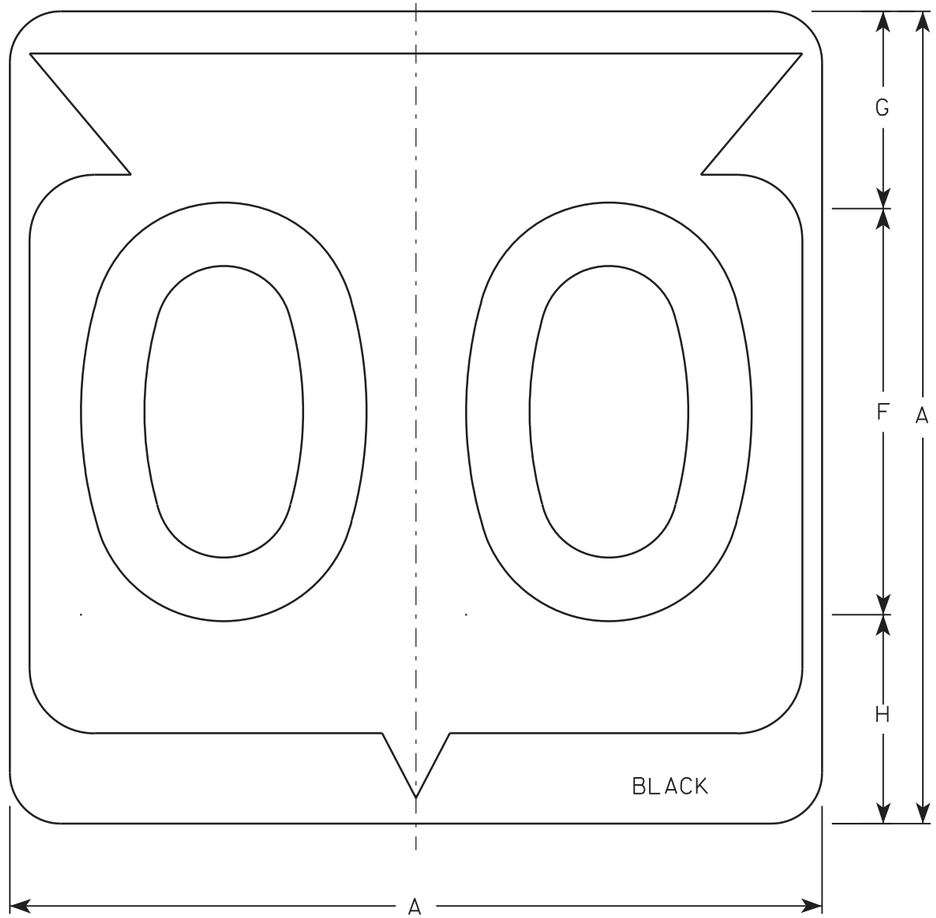
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

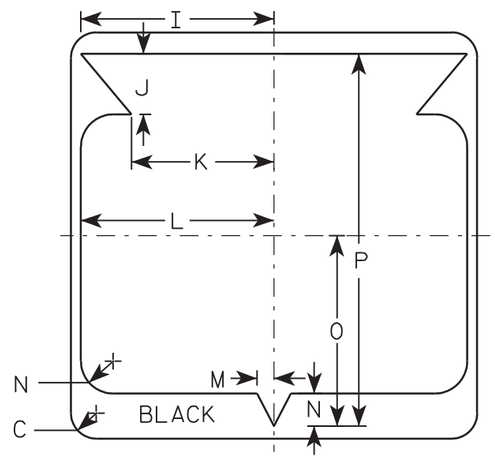
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO: 513	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

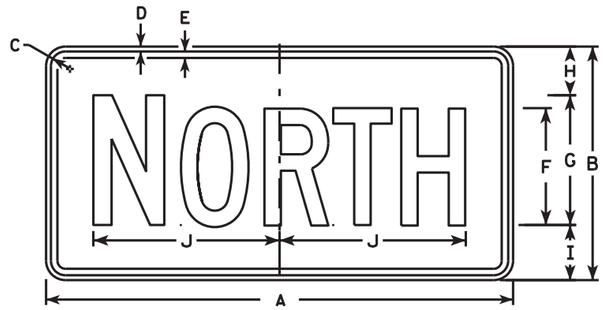
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

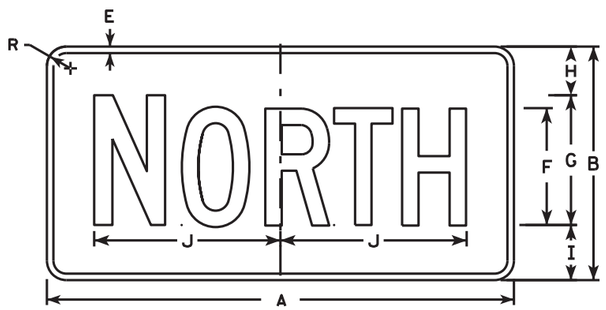
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO: 514	E



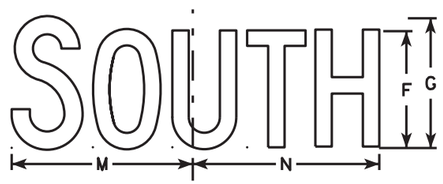
M3-1
MM3-1
MP3-1



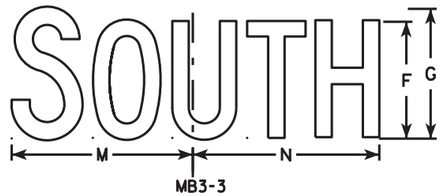
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

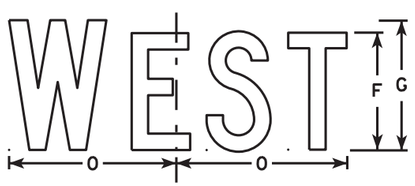
MB3-2
MK3-2
MN3-2



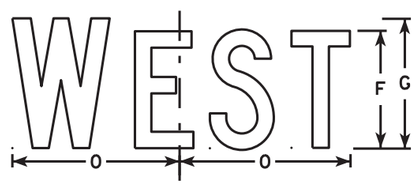
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

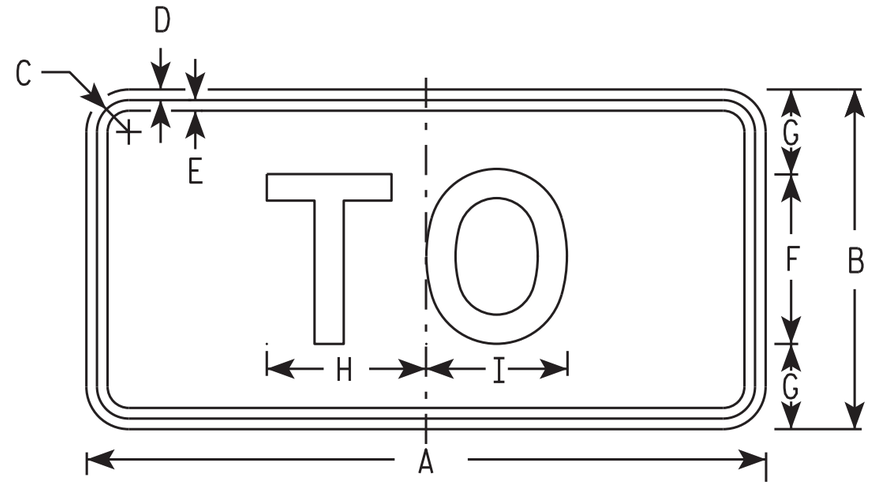
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14

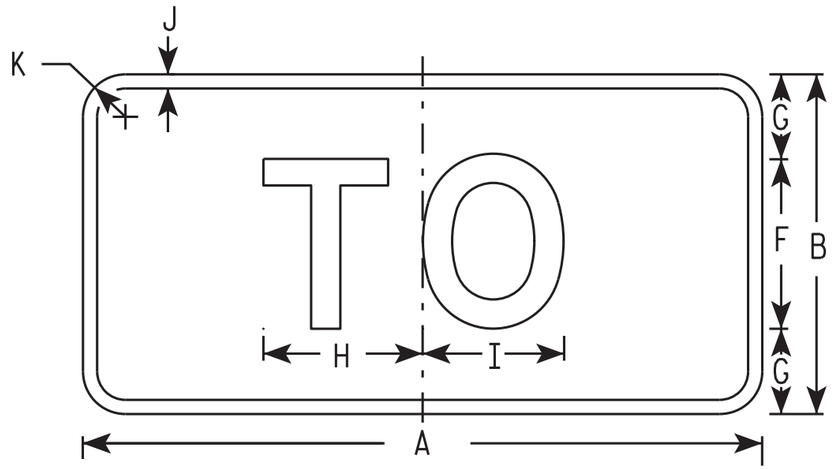
PROJECT NO: 2190-00-71 | HWY: USH 18 | COUNTY: MILWAUKEE | SIGN PLATES | SHEET NO. 515 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 15-OCT-2015 12:16 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000 WISDOT/CADDS SHEET 42



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

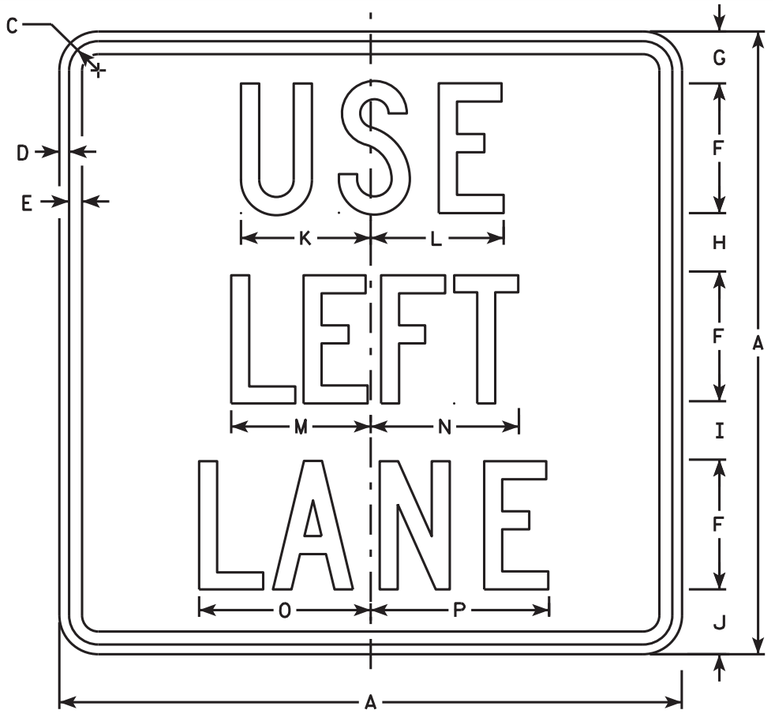
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-5.8

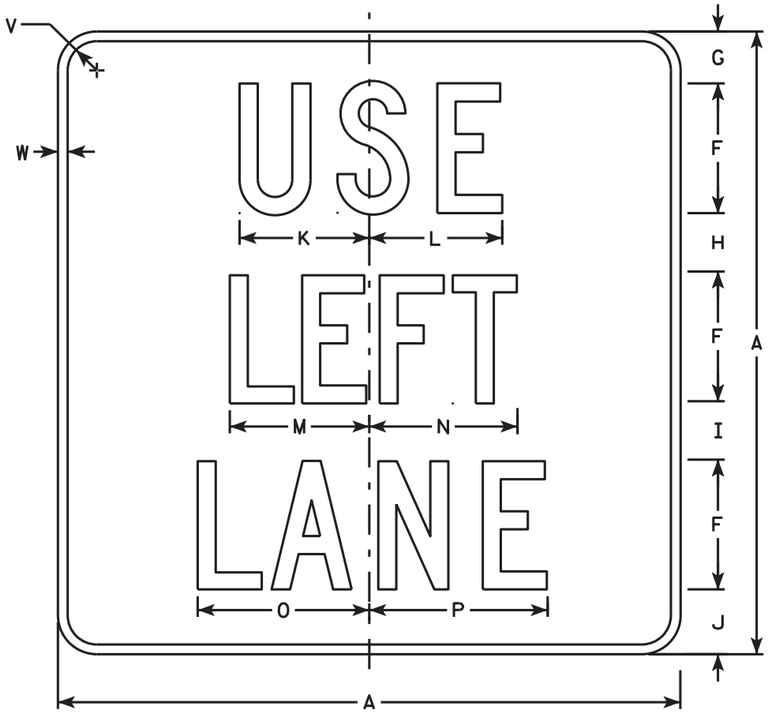
PROJECT NO: 2190-00-71 | HWY: USH 18 | COUNTY: MILWAUKEE | SIGN PLATES | SHEET NO. 516 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 15-OCT-2015 13:06 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 8.528262:1.000000
WISDOT/CADDS SHEET 42



M4-20L
MM4-20L
MO4-20L
MP4-20L



MB4-20L
MK4-20L
MN4-20L
MR4-20L

M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
MO4-20C
MP4-20C
MR4-20C

M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
MO4-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   MO4-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

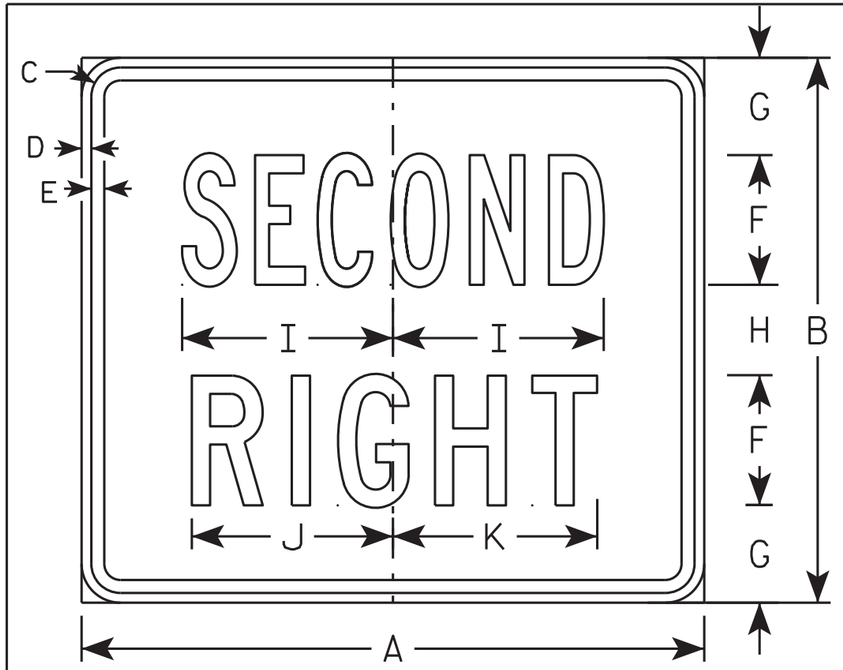
STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

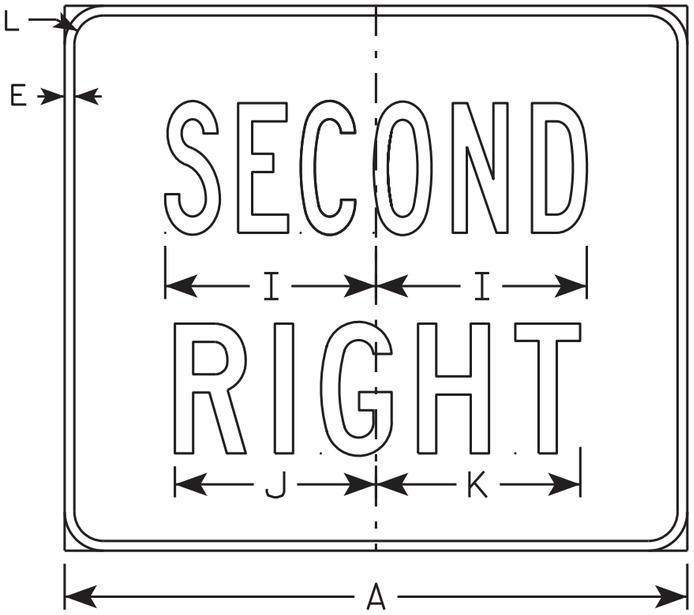
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-20.5

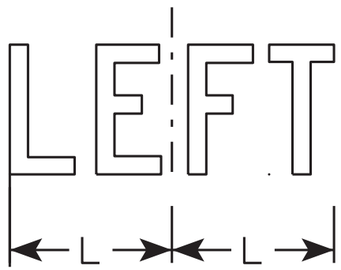
PROJECT NO: 2190-00-71 | HWY: USH 18 | COUNTY: MILWAUKEE | SIGN PLATES | SHEET NO. 517 | E



M4-22R
MM4-22R
M04-22R
MP4-22R



MB4-22R
MK4-22R
MN4-22R
MR4-22R



M4-22L
MB4-22L
MK4-22L
MM4-22L
MN4-22L
M04-22L
MP4-22L
MR4-22L

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-22 Background - White
   Message - Black
   MB4-22 Background - Blue
   Message - White
   MK4-22 Background - Green
   Message - White
   MM4-22 Background - White
   Message - Green
   MN4-22 Background - Brown
   Message - White
   M04-22 Background - Orange - Type F Reflective
   Message - Black
   MP4-22 Background - White
   Message - Blue
   MR4-22 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	21	1 1/8	3/8	1/2	5	3 3/4	3 1/2	8 1/8	7 3/4	7 7/8	1 1/2															3.5
3	36	30	1 5/8	5/8	3/4	8	4 3/4	4 1/2	13 1/8	12 5/8	12 1/2	1 7/8															7.5
4																											
5																											

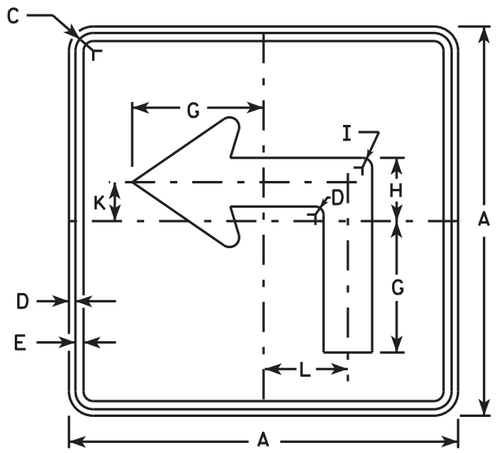
STANDARD SIGN
M4-22

WISCONSIN DEPT OF TRANSPORTATION

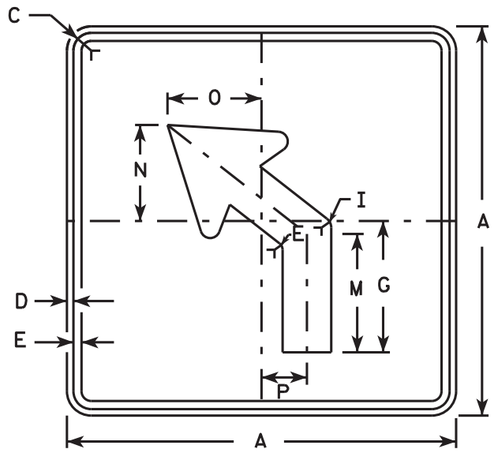
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-22.4

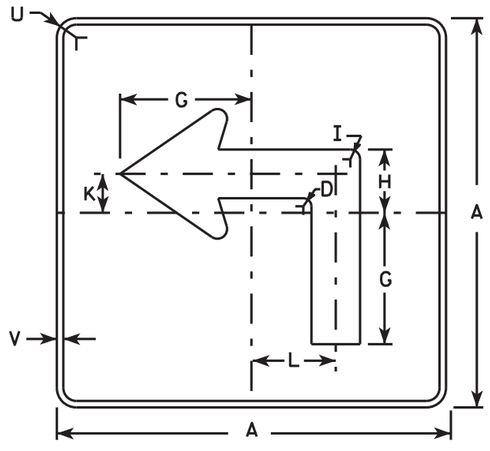
PROJECT NO: 2190-00-71	HWY: USH 18	COUNTY: MILWAUKEE	SIGN PLATES	SHEET NO. 518	E



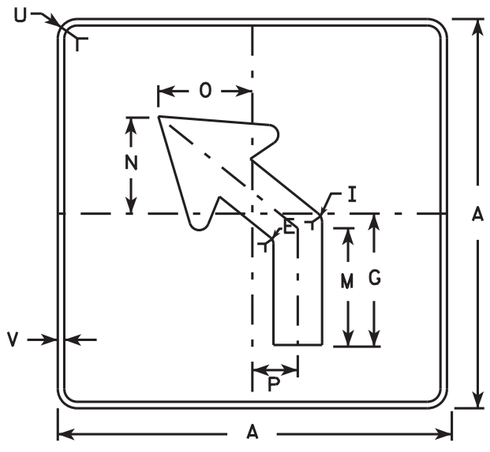
M5-1L
MM5-1L
MO5-1L
MP5-1L



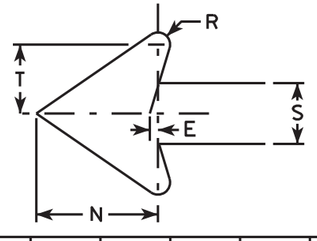
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

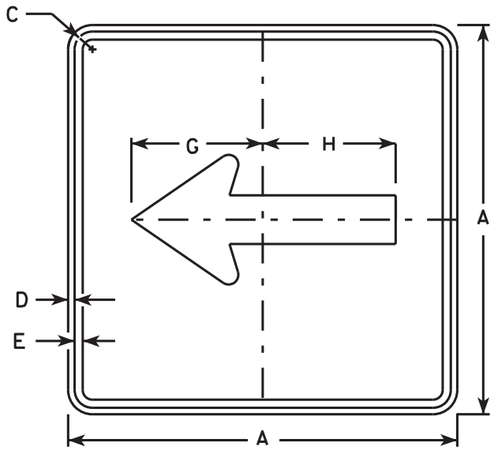
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

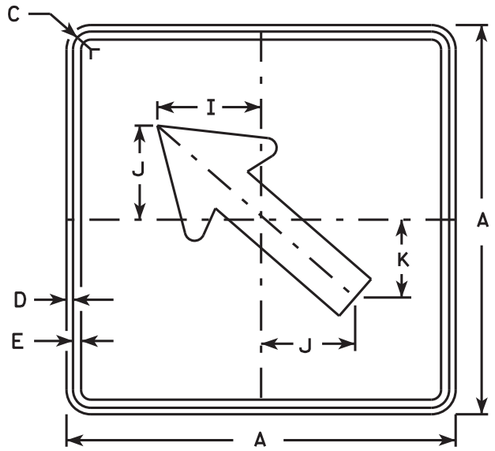
PROJECT NO: 2190-00-71 | HWY: USH 18 | COUNTY: MILWAUKEE | SIGN PLATES | SHEET NO. 519 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 15-OCT-2015 13:14 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



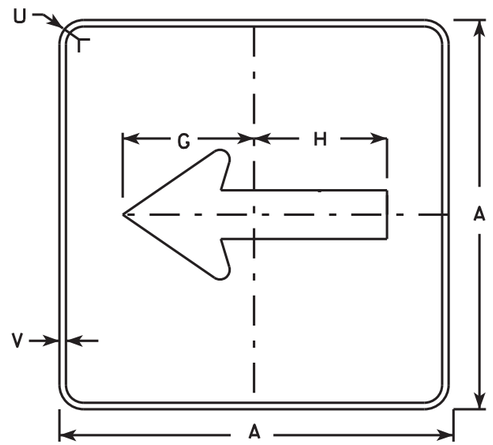
M6-1
MM6-1
MO6-1
MP6-1



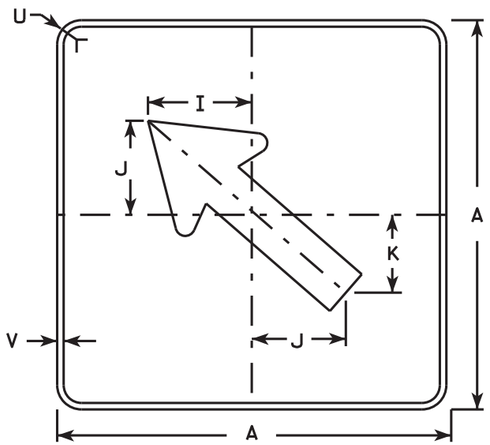
M6-2
MM6-2
MO6-2
MP6-2

NOTES

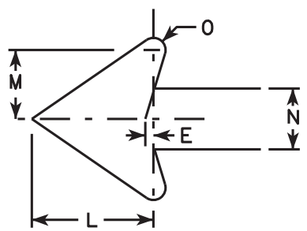
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

PROJECT NO: 2190-00-71 | HWY: USH 18 | COUNTY: MILWAUKEE | SIGN PLATES | SHEET NO. 520 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 15-OCT-2015 13:17 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
105+63.5	0	0	0.00	0.00
106+00	126	24	1.58	1.00
106+50	191	7	1.42	0.83
107+00	181	8	1.33	0.83
107+50	195	8	1.25	0.83
108+00	203	6	1.33	0.83
108+50	176	15	1.42	0.83
109+00	176	15	1.42	0.83
109+50	176	15	1.42	0.83
110+00	176	15	1.50	0.83
110+50	176	15	1.58	0.83
111+00	176	15	1.58	0.83
111+50	176	15	1.33	0.83
112+00	175	13	1.33	0.83
112+50	248	30	1.33	0.83
113+00	176	28	1.33	0.83
113+50	241	4	1.33	0.83
114+00	200	12	1.33	0.83
114+50	201	12	1.33	0.83
115+00	201	12	1.33	0.83
115+50	216	7	1.33	0.83
116+00	211	5	1.33	0.83
116+50	231	17	1.33	0.83
117+00	242	23	1.33	0.83
117+50	178	15	1.33	0.83
118+00	178	15	1.33	0.83
118+50	178	15	1.33	0.83
119+00	178	15	1.33	0.83
119+50	178	15	1.33	0.83
120+00	236	4	1.33	0.83
120+50	207	10	1.33	0.83
121+00	206	14	1.33	0.83
121+50	201	12	1.33	0.83
122+00	222	5	1.33	0.83
122+50	222	28	1.33	0.83
123+00	267	5	1.33	0.83

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
123+50	204	5	1.33	0.83
124+00	205	7	1.33	0.83
124+50	252	5	1.33	0.83
125+00	176	15	1.33	0.83
125+50	175	13	1.33	0.83
126+00	218	17	1.33	0.83
126+50	244	2	1.33	0.83
127+00	244	4	1.33	0.83
127+33	84	3	1.33	0.83
133+12	0	0	1.33	0.83
133+50	43	2	1.33	0.83
134+00	333	0	1.33	0.83
134+50	204	6	1.33	0.83
135+00	206	7	1.33	0.83
135+50	206	7	1.33	0.83
136+00	215	20	1.33	0.83
136+50	213	7	1.33	0.83
137+00	206	7	1.33	0.83
137+50	313	0	1.33	0.83
138+00	204	7	1.33	0.83
138+50	209	12	1.33	0.83
139+00	217	9	1.33	0.83
139+50	217	12	1.33	0.83
140+00	180	15	1.33	0.83
140+50	180	15	1.33	0.83
141+00	180	15	1.33	0.83
141+50	206	19	1.33	0.83
142+00	206	16	1.33	0.83
142+50	206	7	1.33	0.83
143+00	282	0	1.33	0.83
143+50	204	4	1.33	0.83
144+00	206	7	1.33	0.83
144+50	209	7	1.33	0.83
145+00	176	11	1.33	0.83
145+50	189	15	1.33	0.83

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
146+00	206	15	1.33	0.83
146+50	264	7	1.33	0.83
147+00	204	1	1.33	0.83
147+50	206	4	1.33	0.83
148+00	180	11	1.33	0.83
148+50	206	15	1.33	0.83
149+00	206	11	1.33	0.83
149+50	243	7	1.33	0.83
150+00	193	4	1.33	0.83
150+50	180	15	1.33	0.83
151+00	180	15	1.33	0.83
151+50	193	15	1.33	0.83
152+00	206	15	1.33	0.83
152+50	222	7	1.33	0.83
153+00	188	4	1.33	0.83
153+50	180	9	1.33	0.83
154+00	180	15	1.33	0.83
154+50	180	15	1.33	0.83
155+00	180	15	1.33	0.83
155+50	180	15	1.33	0.83
156+00	180	15	1.33	0.83
156+50	180	15	1.33	0.83
156+80	191	4	1.33	0.83

TOTAL	18,512	1,021

PROJECT NO: 2190-00-70	HWY: WISC. AVE.	COUNTY: MILWAUKEE	EARTHWORK	SHEET: 521	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
17+00	0	0	0.00	0.00
17+50	68	2	1.17	0.67
18+00	126	2	1.17	0.67
18+50	126	2	1.17	0.67
19+00	126	3	1.17	0.67
19+50	126	2	1.17	0.67
20+00	126	3	1.17	0.67
20+50	126	2	1.17	0.67
21+00	126	2	1.17	1.33
21+50	198	3	1.17	1.33
22+00	183	6	1.17	1.34
22+50	164	6	1.17	1.34
23+00	161	4	1.50	1.70
23+50	198	22	1.34	1.90
24+00	174	39	1.17	2.10
24+50	204	51	1.17	1.70
25+00	191	44	1.17	1.40
25+50	193	14	1.17	1.40
26+00	193	12	1.17	1.20
26+50	170	6	0.25	1.90
27+00	223	11	0.25	0.20
27+50	241	21	1.72	1.30
28+00	235	51	1.52	1.00
28+50	197	27	1.27	1.00
29+00	197	34	1.57	1.20
29+50	197	42	1.67	1.20
30+00	197	26	1.27	0.30
30+50	321	0	1.50	0.70
31+00	201	5	1.77	1.33
31+50	222	9	1.89	1.33
32+00	222	6	1.73	0.70
32+50	225	21	1.92	0.70
32+63.5	44	6	0.75	0.70

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
201+50	0	0	0.00	0.00
202+00	74	77	1.17	1.33
202+50	130	124	1.17	1.33
203+00	115	111	1.17	1.33
203+50	41	13	1.17	0.67

STATION	CUT C.Y.	FILL (-) C.Y.	LARGEST CUT IN FEET	LARGEST FILL (-) IN FEET
302+00	0	0		
302+50	67	5	1.17	1.33
303+00	111	12	1.17	1.33
303+50	111	12	1.17	1.33
304+00	111	14	1.17	1.33
304+50	111	8	1.17	1.33
305+00	124	6	1.17	1.33
305+50	10	5	1.17	1.33

TOTAL	6,706	871

9

9

PROJECT NO: 2190-00-71 | HWY: USH 18 | COUNTY: MILWAUKEE | EARTHWORK | SHEET: 522 | E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

Notes

Wisconsin Department of Transportation

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through innovation and exceptional service.

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