

FILE NAME : W:\7701_01\CAD\! 7570-05-00\SHEETSPLAN\010101_TI.DWG

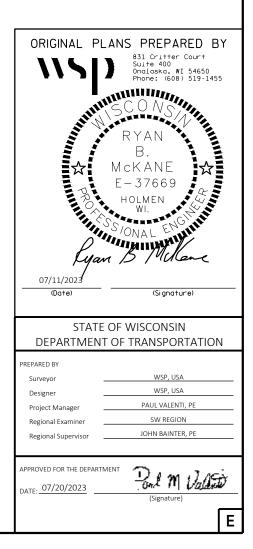
PLOT DATE : 7/11/2023 7:32 AM

PLOT NAME PLOT BY : MCKANE, RYAN

| STATE PROJECT | FEDERAL PROJECT | | | | |
|---------------|-----------------|----------|--|--|--|
| STATE PROJECT | PROJECT | CONTRACT | | | |
| 7570-05-70 | WISC 2024112 | 1 | | | |
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| | | | | | |
| • | | | | | |

END PROJECT STA 110+44.02 EB Y: 163,367.677

X: 485,107.330



STANDARD ABBREVIATIONS

| CE CONC CO | C/L | ACRE AGGREGATE AHEAD ANNUAL AVERAGE DAILY TRAFFIC ASPHALTIC AVERAGE BACK BASE AGGREGATE DENSE BENCH MARK BRIDGE CENTER LINE COMMERCIAL ENTRANCE CONCRETE COUNTY |
|---|-----|--|
| CTH CR CABC CY or CULV CP C & G D DI A DI SCH E FB | | COUNTY TRUNK HI GHWAY CREEK CRUSHED AGGREGATE BASE COURSE CUBI C YARD CULVERT CULVERT PI PE CURB AND GUTTER DEGREE OF CURVE DI AMETER DI SCHARGE EAST EASTBOUND |
| 20 | | ELEVATION ENDWALL ENTRANCE EXCAVATION EXISTING FERTILIZER FIELD ENTRANCE FLOW LINE FOOT HOT MIX ASPHALT HUNDREDWEIGHT |

| I NL I NV JCT LT L | INLET INVERT JUNCTION LEFT LENGTH OF CURVE |
|--------------------------------|--|
| LIN FT or LF | LINEAR FOOT |
| LS | LUMP SUM |
| NC | NORMAL CROWN |
| Ν | NORTH |
| NB | NORTHBOUND |
| NO | NUMBER |
| PT | POI NT |
| PC | POINT OF CURVATURE |
| PI | POINT OF INTERSECTION |
| PT | POINT OF TANGENCY |
| PCC | PORTLAND CEMENT CONCRETE |
| LB | POUND |
| PE | PRI VATE ENTRANCE |
| R | RADI US |
| RL or R/L | REFERENCE LINE |
| RT | RI GHT |
| R/W | RI GHT-OF-WAY |
| RD | ROAD |
| SHLDR | SHOULDER |
| SB | SOUTHBOUND |
| SF or SQ FT | |
| SY or SQ YD | |
| SDD | STANDARD DETAIL DRAWINGS |
| STH | STATE TRUNK HI GHWAYS |
| SE | SUPERELEVATI ON |
| T | TANGENT |
| TEMP | TEMPORARY |
| TWLTL | TWO WAY LEFT TURN LANE |
| USH V | UNI TED STATES HI GHWAY VELOCI TY OR DESI GN SPEED |
| V VC | VERTICAL CURVE |
| WB | WESTBOUND |
| wв YD | YARD |
| | |

AREA CONTACTS

DESIGN CONTACT WSP USA RYAN MCKANE, PE 831 CRITTER COURT, SUITE 400 ONALASKA, WI 54650 (608) 713-9274 RYAN. MCKANE@WSP. COM

WDNR: LA CROSSE COUNTY KAREN KALVELAGE LA CROSSE OFFICE 3550 MORMON COULLE RD LA CROSSE, WI 54601 PHONE: (608) 785-9115 KAREN. KALVELAGE@WI SCONSI N. GOV

RUNOFF COEFFICIENT TABLE

| | НҮ | DROLOG | IC SOIL GROUP | | | | | | | | | |
|-----------------------|--------------|------------|---------------|-----------------------|------------|-----------------------|------------|------------|-----------------------|------------|------------|------------|
| А | E | 3 | C | | | | | | | | D | |
| | SLO | PE RANG | E (PERCENT) | SLOPE RANGE (PERCENT) | | SLOPE RANGE (PERCENT) | | | SLOPE RANGE (PERCENT) | | | |
| LAND USE: | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER |
| ROW CROPS | .08 | .16 | .22 | .12 | .20 | .27 | .15 | .24 | .33 | .19 | .28 | .38 |
| | .22 | .30 | .38 | .26 | .34 | .44 | .30 | .37 | .50 | .34 | .41 | .56 |
| MEDIAN STRIP- TURF | .19 .24 | .20 .26 | .24 .30 | .19 .25 | .22 .28 | .26 .33 | .20 .26 | .23 .30 | .30 .37 | .20 .27 | .25 .32 | .30 .40 |
| SIDE SLOPE: TURF | | | .25 .32 | | | .27 .34 | | | .28 .36 | | | .30 .38 |
| PAVEMENT: | | | | | | | | | | | | |
| ASPHALT | | | | | | .7095 | | | | | | |
| CONCRETE | NCRETE .8095 | | | | | | | | | | | |
| BRICK | | | | | | .7080 | | | | | | |
| DRIVES, WALKS | | | | | | .7585 | | | | | | |
| ROOFS .7595 | | | | | | | | | | | | |
| GRAVEL ROADS, SHOU | JLDERS | | | | | .4060 | | | | | | |
| | | | | | | | | | | | | |

TOTAL PROJECT AREA = 1.39 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____O. 01___ACRES

ORDER OF TYPICAL SECTION & DETAIL SHEETS

| 1. | GENERAL NOTES |
|----|---------------------|
| 2. | PROJECT OVERVIEW |
| 3. | TYPI CAL SECTI ONS |
| 4. | CONSTRUCTION DETAIL |
| 5. | REMOVAL DETAILS |
| 6. | TRAFFIC SIGNAL REM |
| 7. | TRAFFC SIGNAL PLAN |
| 8. | SIGNING & MARKING |
| 9. | TRAFFIC CONTROL |
| | |

10. ALI GNMENT DETAIL & TIES

STATE PROJECT NO: 7570-05-70

WI SDOT PROJECT MANAGER

3550 MORMON COULEE RD

PHONE: (608) 785-9053

PAUL. VALENTI @DOT. WI . GOV

LA CROSSE, WI 54601

PAUL VALENTI, PE

FILE NAME :

2

PLOT DATE : _____

HWY: STH 16

PLOT BY : _____

COUNTY: LA CROSSE

PLOT NAME : _____

ORG DATE : _____

2

I LS

MOVAL PLAN

GEN NOTES, STAND ABBR, & CONTACTS SHEET NO:

Ε

GENERAL NOTES

- ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN. 2
 - THE REFERENCE LINE (R/L) IS THE MEDIAN EDGE OF THE EASTBOUND PAVEMENT (LABELED 'EB'). THE AUXILIARY (OR WESTBOUND) REFERENCE LINE IS THE MEDIAN EDGE OF THE WESTBOUND PAVEMENT (LABELED 'WB'). THE SIDEROAD ALIGNMENT (CTH M) IS THE CENTERLINE OF THE ROADWAY (LABELED 'M').
 - ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION. ANY CONFLICTING SIGNS SHALL BE COVERED OR REMOVED.
 - TYPI CAL SECTIONS SHOW THE GENERAL FEATURES THROUGHOUT THE PROJECT. PAVEMENT SLOPES, TERRACE SLOPES, ETC., MAY VARY WITHIN THE LIMITS OF THE SECTION.
 - DISTURBED AREAS WITHIN THE RIGHT OF WAY FOR REMOVAL AND INSTALLATION OF CONCRETE BASES ARE TO BE FERTILIZED, SEEDED, AND EMATTED AS DIRECTED BY THE ENGINEER UNDER THE ITEM 'GRADING, SHAPING, and FINISHING FOR CONCRETE BASES'
 - PAVING LIMITS ARE TO BE DETERMINED BY THE ENGINEER.
 - THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDI NAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, PARKING LANE, OR BIKE/PED LANE.
 - HMA WEIGHT CALCULATION IS BASED ON 112 LB/SY/IN.
 - HMA PAVEMENT TO BE PLACED IN SINGLE 2-INCH LIFT.
 - TACK COAT IS REQUIRED BETWEEN THE MILLED PAVEMENT AND HMA PAVEMENT. TACK COAT APPLICATION RATE IS 0.07 GAL/SY.
 - THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
 - WHEN THE QUANTITIY OF BASE AGGREGATE IS MEASURED FOR PAVEMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
 - RIGHT OF WAY DEPICTED ON THE PLANS ARE BASED OFF OF PREVIOUS AS BUILTS. IF CONFLICTS ARE ANTICIPATED, THE CONTRACTOR SHALL FIELD VERIFY EXACT LIMITS AND NOTIFY THE ENGINEER.
 - TRANSVERSE CONCRETE JOINT DESIGN AND FIELD LAYOUT INCIDENTAL TO ITEM CONCRETE PAVEMENT HES 10-INCH.
 - AERIAL IMAGERY SHOWN ON THIS PLAN IS FROM 2015 AND IS FOR INFORMATIONAL PURPOSES ONLY.

UTILITY CONTACTS

BRI GHTSPEED COMMUNICATION LINE BRIAN STELPLUGH 1905 WARD AVENUE LA CROSSE, WI 54601 (608) 780 - 1238 BRI AN. STELPLUGH@BRI GHTSPEED. COM

SPECTRUM COMMUNICATION LINE PERRY MCCLELLAN 1228 12TH AVENUE SOUTH ONALASKA, WI 54650 (608) 317 - 6213 PERRY. MCCLELLAN@SPECTRUM. COM

XCEL ENERGY ELECTRI CI TY DAVID MELSNESS P. O. BOX 8 EAU CLAIRE, WI 54702 (715) 737 - 1495 DAVI D. J. MELSNESS@XCELENERGY. COM



| STATE PROJECT NO: 7570-05-70 | HWY: STH 16 | | COUNTY: LA CROSS | E | GEN NOT | ES, STAND ABBI |
|------------------------------|-------------|------|------------------|-------------|---------|----------------|
| FILE NAME : | PLOT DATE : | PLOT | BY : | PLOT NAME : | | ORG DATE : |

| LEMONWEIR VALLEY TELEPHONE CO. COMMUNICATION LINE BEN GRILLEY 127 US HWY 12 P.O. BOX 267 CAMP DOUGLAS, WI 54618 (608) 427 - 4036 BEN. GRILLEY@GETLYNXX. COM | MI DWEST NATURAL GAS, INC. GAS/PETROLEUM RANDY RI SEN 3600 STATE HI GHWAY 157 LA CROSSE, WI 54602 (608) 781 - 1011 RANDYR@MI DWESTNATURALGAS. COM |
|--|---|
| VILLAGE OF WEST SALEM | WE ENERGIES |
| WATER | GAS/PETROLEUM |
| LOREN SCHWIER | JEREMY SLOWINSKI |
| 175 LEONARD STREET SOUTH | 1921 8TH STREET SOUTH |
| WEST SALEM, WI 54669 | WI SCONSIN RAPIDS, WI 54494 |
| (608) 786 - 2850 | (715) 421 - 7251 |
| LSCHWIER@WESTSALEMWI.GOV | JEREMY. SLOWINSKI@WE-ENERGIES. COM |

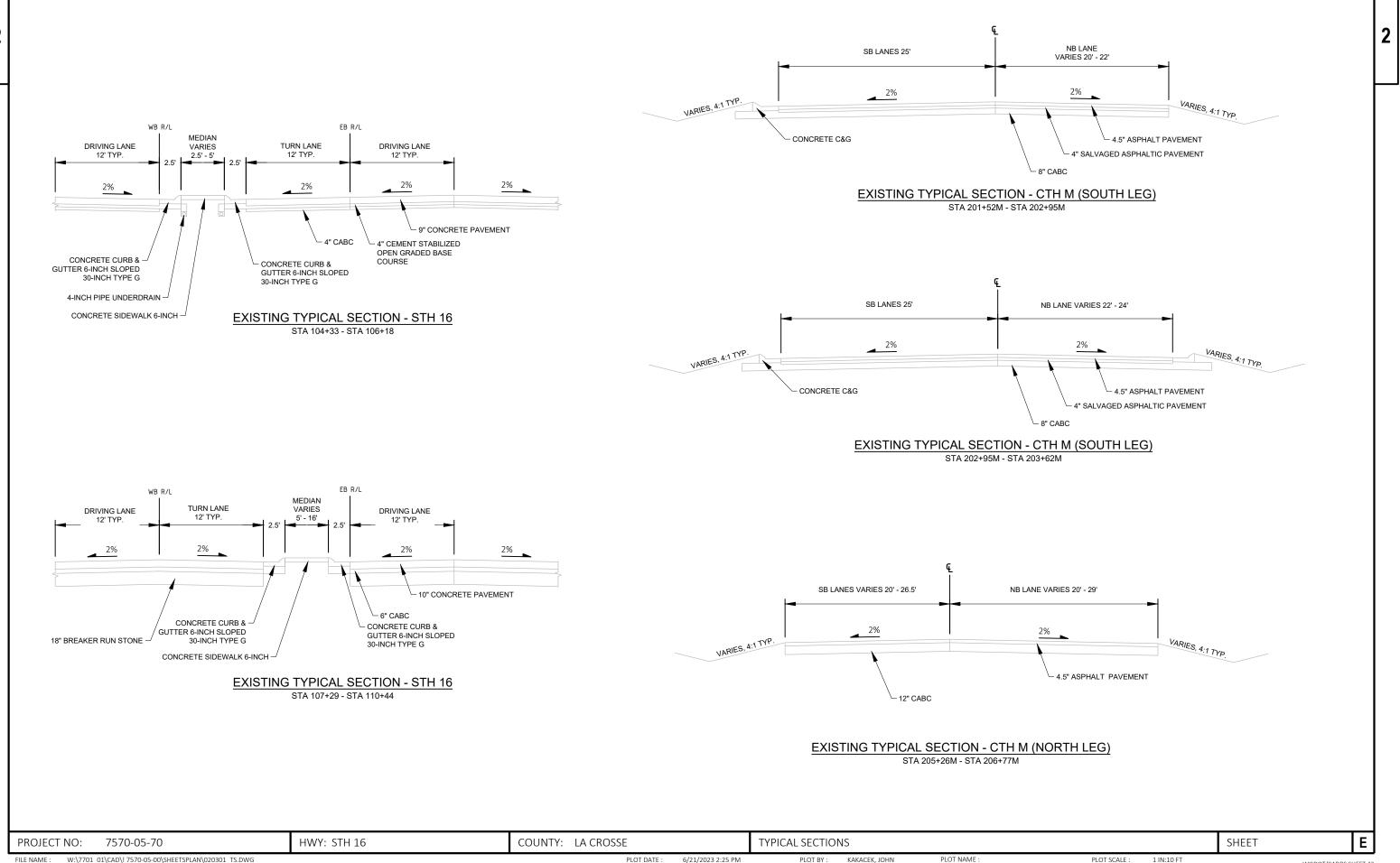
SHEET NO: BR, & CONTACTS

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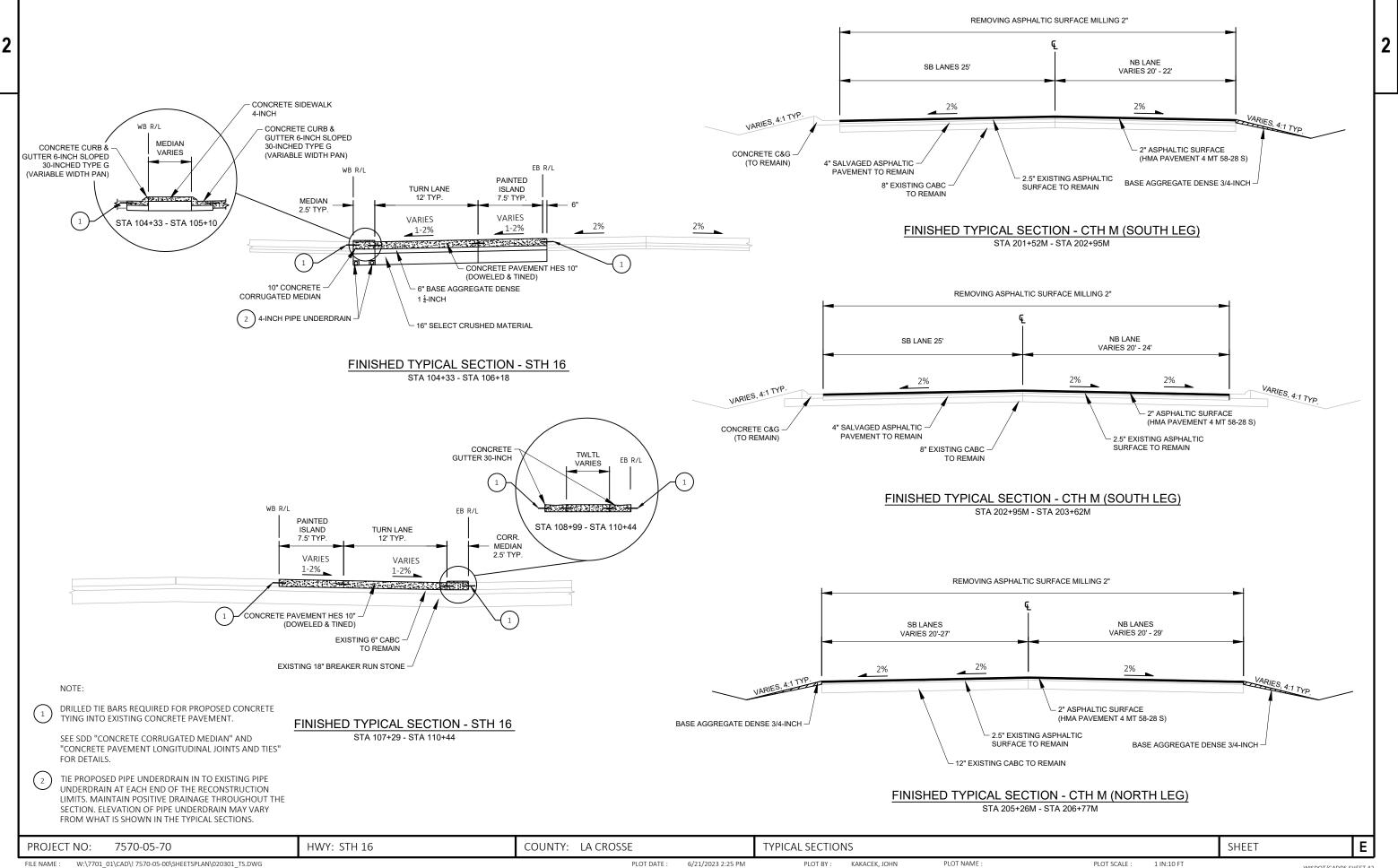
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KAKACEK, JOHN PLOT NAME :



W:\7701 01\CAD\! 7570-05-00\SHEETSPLAN\020301 TS.DWG FILE NAME : LAYOUT NAME - 020301-ts (1)

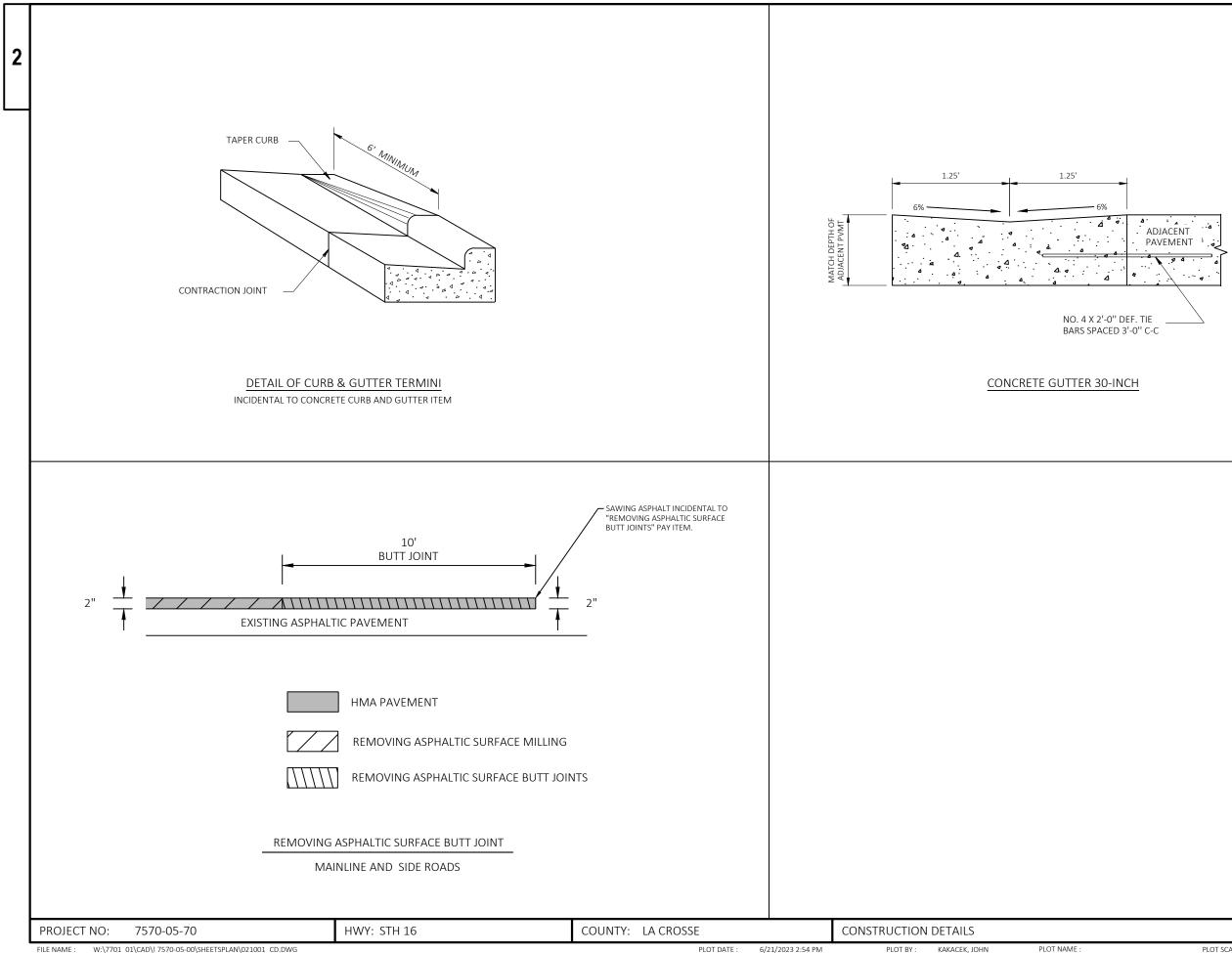
PLOT BY : KAKACEK, JOHN PLOT DATE : 6/21/2023 2:25 PM



LAYOUT NAME - 020301-ts (2)

PLOT BY : PLOT DATE : 6/21/2023 2:25 PM

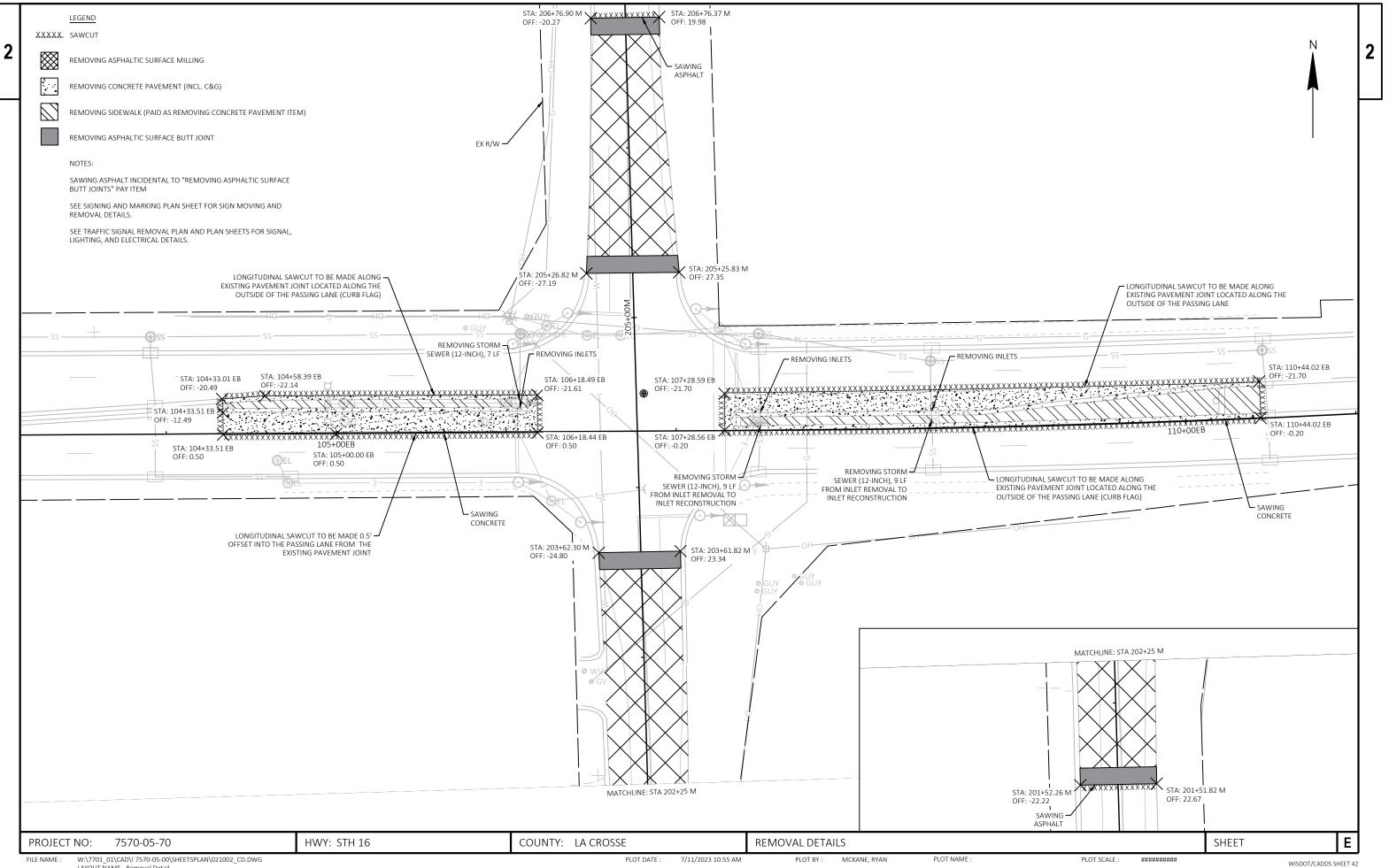
PLOT NAME





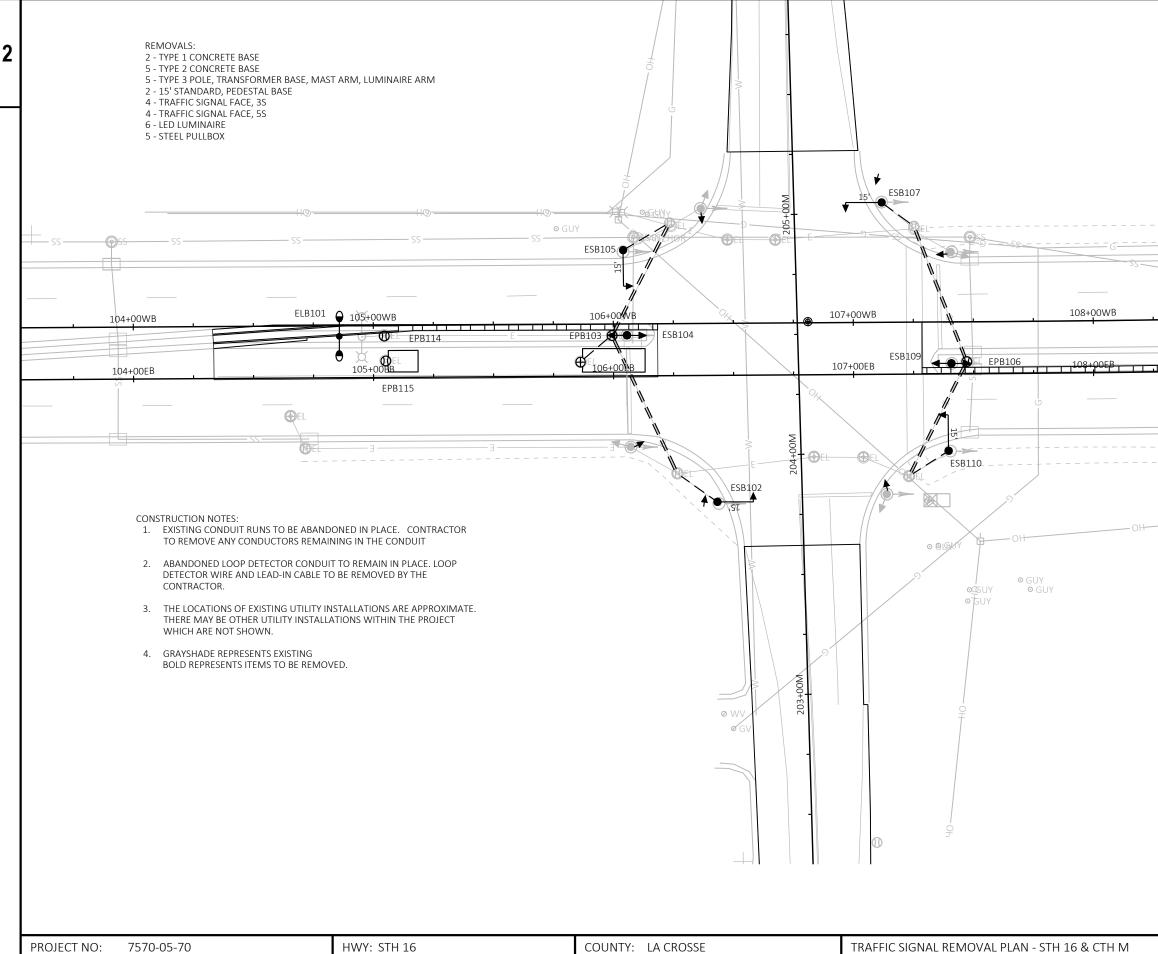
NOTE: DRILLED TIE BARS REQUIRED WHEN PLACED ADJACENT TO EXISTING CONCRETE. TIE BARS REQUIRED WHEN PLACED ADJACENT TO PROPOSED CONCRETE (TIE BARS INCIDENTAL TO ITEM).

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LAYOUT NAME - Removal Detail

PLOT DATE : 7/11/2023 10:55 AM

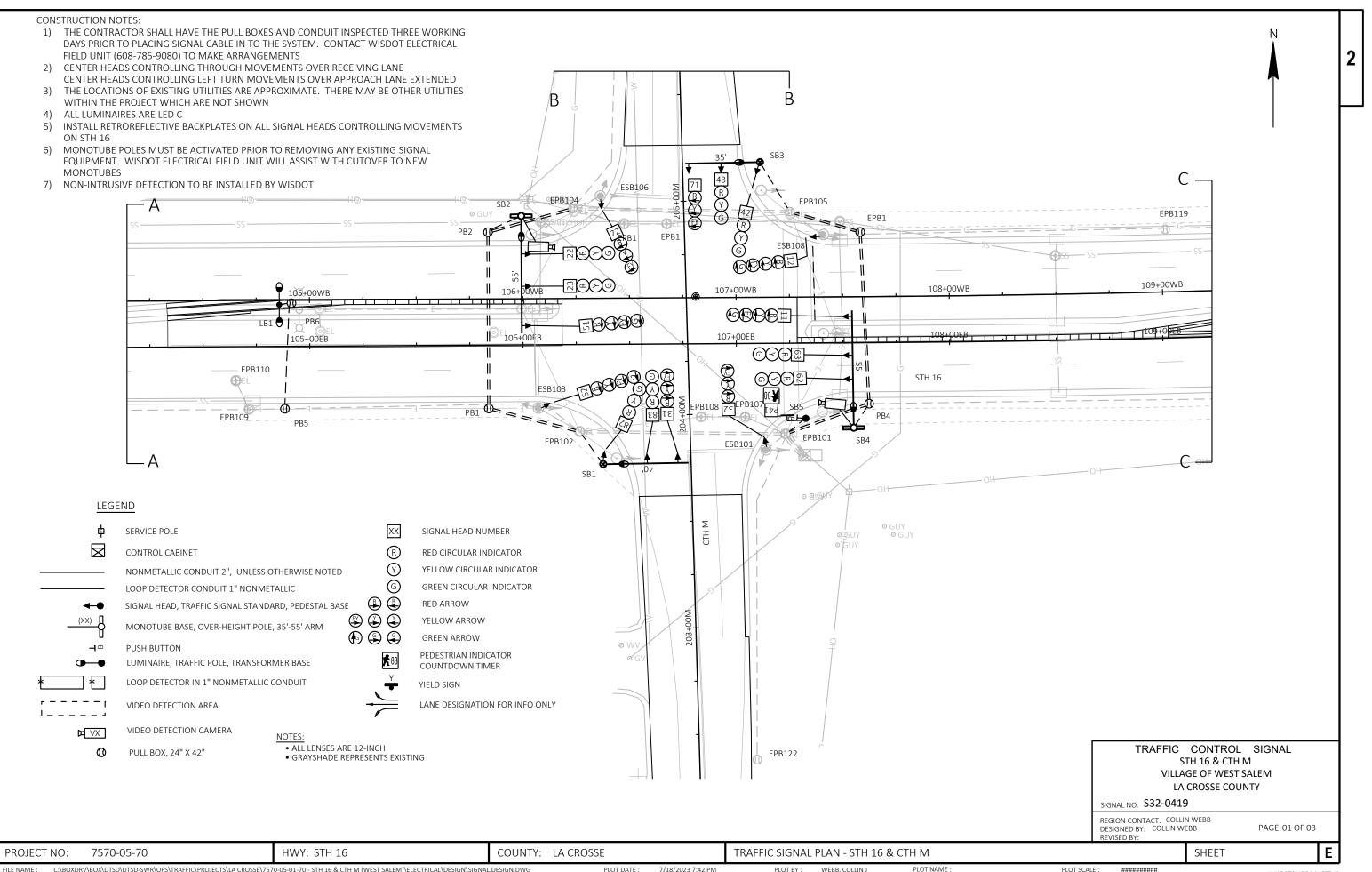


| FILE NAME : | C:\B0XDRV\B0X\DTSD\DTSD-SWR\OPS\TRAFFIC\PROJECTS\LA CROSSE\7570-05-01-70 - STH 16 & CTH M (WEST SALEM)\ELECTRICAL\DESIGN\SIGNAL.DESIGN.DWG | PLOT DATE : | 7/18/2023 7:42 PM |
|-------------|--|-------------|-------------------|
| | LAYOUT NAME - 024001-sr | | |

PLOT BY : WEBB, COLLIN J

PLOT NAME :

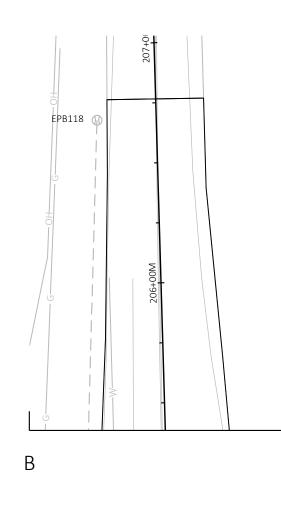
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| | SHEET | |



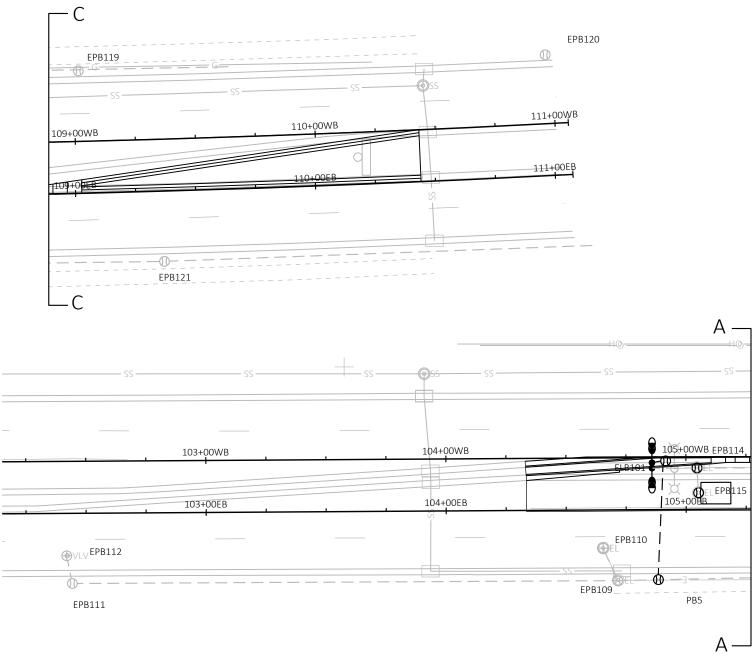
WISDOT/CADDS SHEET 42

| PROJECT | NO: 7570-05-70 | HWY: STH 16 | COUNTY: LA C | ROSSE | | TRAFFIC SIGNAL | PLAN - STH 16 | & CTH M |
|--|----------------|-------------|--------------|-------------|-------------------|----------------|----------------|-------------|
| FILE NAME : C:\BOXDRV\BOX\DTSD\DTSD\SWR\OPS\TRAFFIC\PROJECTS\LA CROSSE\7570-05-01-70 - STH 16 & CTH M (WEST SALEM)\ELECTRICAL\DESIGN\SIGNAL.DES LAYOUT NAME - 024201-sp | | | | PLOT DATE : | 7/18/2023 7:42 PM | PLOT BY : | WEBB, COLLIN J | PLOT NAME : |





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| PROJEC | CT NO: 7570-05-70 | HWY: STH 16 | COUNTY: L | LA CROSSE | | TRAFFIC SIGNAL | . PLAN - STH 16 | & CTH M |
|-------------|--|--|--------------|-------------|-------------------|----------------|-----------------|-------------|
| FILE NAME : | C:\BOXDRV\BOX\DTSD\DTSD-SWR\OPS\TRAFFIC\PROJECTS\LA CROSSE\75 LAYOUT NAME - 024202-sp | 70-05-01-70 - STH 16 & CTH M (WEST SALEM)\ELECTRICAL\DESIGN\SIGNAI | L.DESIGN.DWG | PLOT DATE : | 7/18/2023 7:42 PM | PLOT BY : | WEBB, COLLIN J | PLOT NAME : |

| | S ⁻ VILLA | CONTROL TH 16 & CTH M GE OF WEST SA CROSSE COUN | LEM | | |
|-----------|--|--|-----------------------|--|--|
| | REGION CONTACT: COLLIN WEBB DESIGNED BY: COLLIN WEBB PAGE 02 OF 03 REVISED BY: | | | | |
| | | SHEET | E | | |
| PLOT SCAL | E: ########## | | WISDOT/CADDS SHEET 42 | | |

STH 16 AT CTH M

| | | INDICATION / WIRE COLOR | | | | | | | | | | | | | |
|--------------|-------|-------------------------|-------|-------|--------|--------|-----------|-----------|-----------|-------|--|--|--|--|--|
| HOME RUN | BLACK | WHITE | RED | GREEN | ORANGE | BLUE | WHITE/BLK | RED/BLK | GREEN/BLK | ORANG | | | | | |
| SC1 - ESB1 | | NEUTRAL | 4-RED | 4-GRN | 4-YEL | | 14 | 3-R-ARROW | | 3-1 | | | | | |
| SC1 - SB1 | _ | NEUTRAL | 8-RED | 8-GRN | 8-YEL | | | 3-R-ARROW | | 3-Y | | | | | |
| SC1 - ESB103 | - | NEUTRAL | 6-RED | 6-GRN | 6-YEL | | | 5-R-ARROW | 5-G-ARROW | 5-γ | | | | | |
| SC1 - SB2 | - | NEUTRAL | 2-RED | 2-GRN | 2-YEL | | | 5-R-ARROW | 5-G-ARROW | 5-Y | | | | | |
| SC1 - ESB106 | | NEUTRAL | 8-RED | 8-GRN | 8-YEL | | | 7-R-ARROW | | 7-Y | | | | | |
| SC1 - SB3 | | NEUTRAL | 4-RED | 4-GRN | 4-YEL | | | 7-R-ARROW | | 7-1 | | | | | |
| SC1 - ESB108 | 4-DW | NEUTRAL | 2-RED | 2-grn | 2-YEL | 4-WALK | | 1-R-ARROW | 1-G-ARROW | 1-1 | | | | | |
| SC1 - SB4 | | NEUTRAL | 6-RED | 6-GRN | 6-YEL | | | 1-R-ARROW | 1-G-ARROW | 1-Y | | | | | |
| SC1 - 585 | 4-DW | NEUTRAL | | | | 4-WALK | | | | | | | | | |

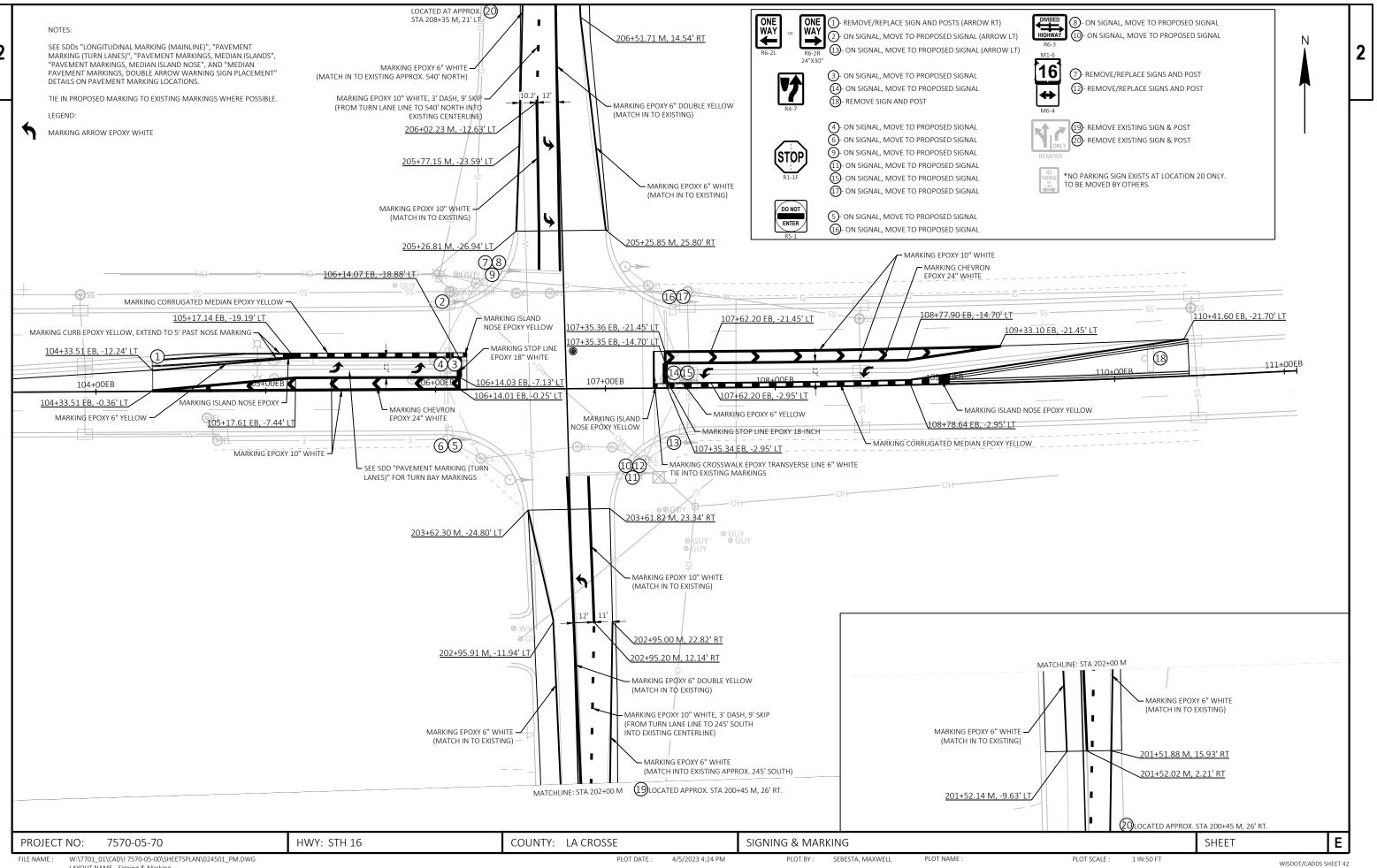
| PR | OJECT NO: | 7570-05-70 | HWY: STH 16 | COUNTY: L | A CROSSE | | CABLE ROUTING | i - STH 16 & CT | ΉM |
|------|-----------|---|--|------------|-------------|-------------------|---------------|-----------------|-------------|
| FILE | | DRV\BOX\DTSD\DTSD-SWR\OPS\TRAFFIC\PROJECTS\LA CROSSE\75 T NAME - 024401-cr | 70-05-01-70 - STH 16 & CTH M (WEST SALEM)\ELECTRICAL\DESIGN\SIGNAI | DESIGN.DWG | PLOT DATE : | 7/18/2023 7:42 PM | PLOT BY : | WEBB, COLLIN J | PLOT NAME : |

2

| ANGE/BLK | BLUE/BLK | BLK/WHITE |
|-----------|------------|-----------|
| 3-Y-ARROW | 3-FY-ARROW | |
| 3-Y-ARROW | 3-FY-ARROW | |
| 5-Y-ARROW | 5-FY-ARROW | |
| 5-Y-ARROW | 5-FY-ARROW | |
| 7-Y-ARROW | 7-FY-ARROW | |
| 7-Y-ARROW | 7-FY-ARROW | |
| 1-Y-ARROW | 1-FY-ARROW | |
| 1-Y-ARROW | 1-FY-ARROW | |

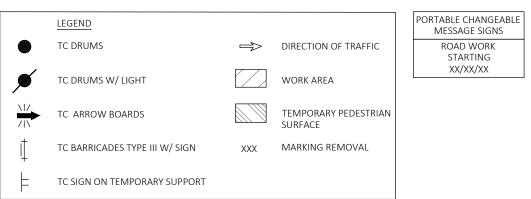
| S ⁻ VILLA | CONTROL TH 16 & CTH M GE OF WEST SA CROSSE COUN | 1 ALEM | | | | | |
|---|--|---------------|---|--|--|--|--|
| SIGNAL NO. S32-0419 |) | | | | | | |
| REGION CONTACT: COLLIN DESIGNED BY: COLLIN WE REVISED BY: | | PAGE 03 OF 03 | | | | | |
| | SHEET | | Ε | | | | |

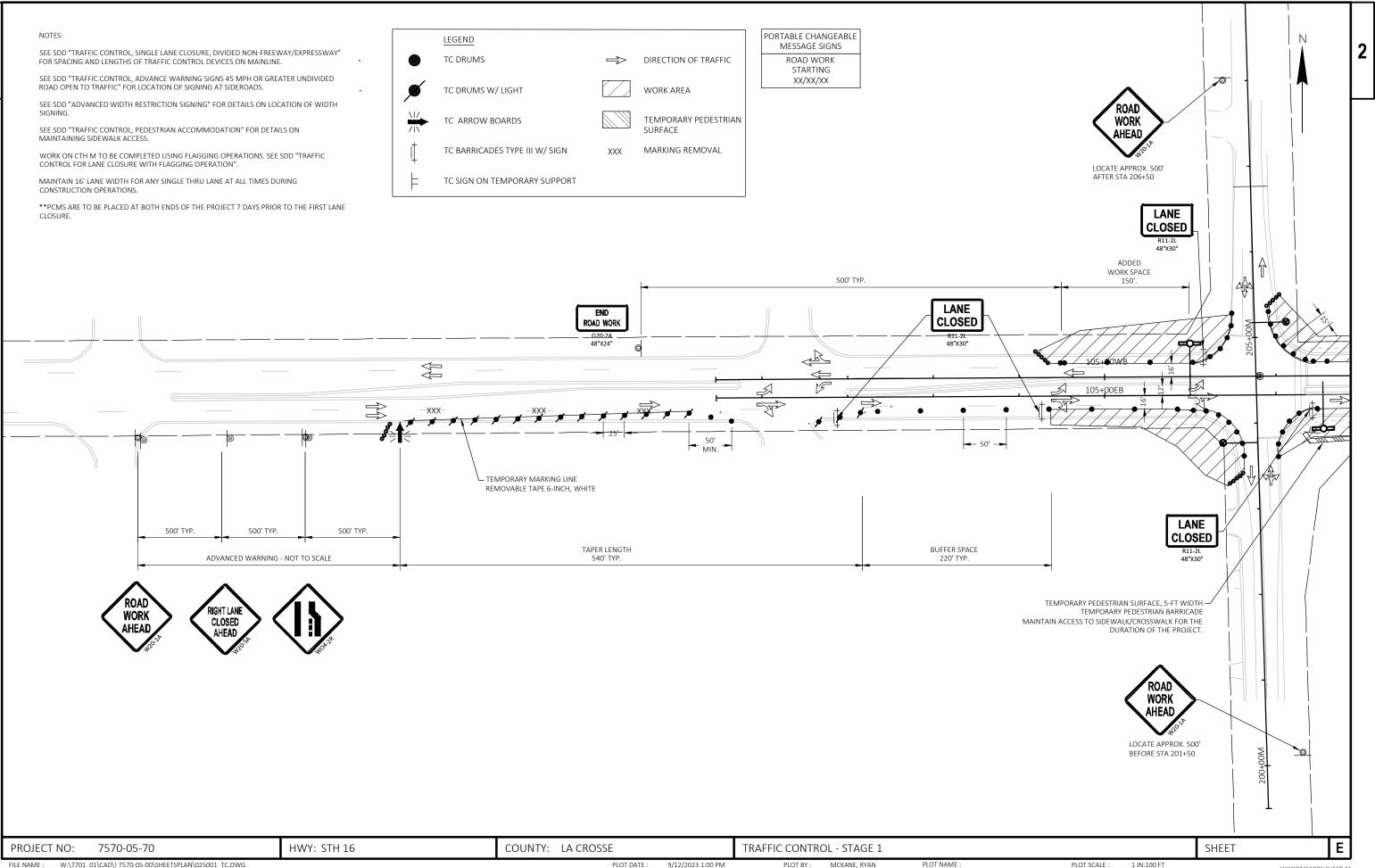
WISDOT/CADDS SHEET 42



LAYOUT NAME - Signing & Marking

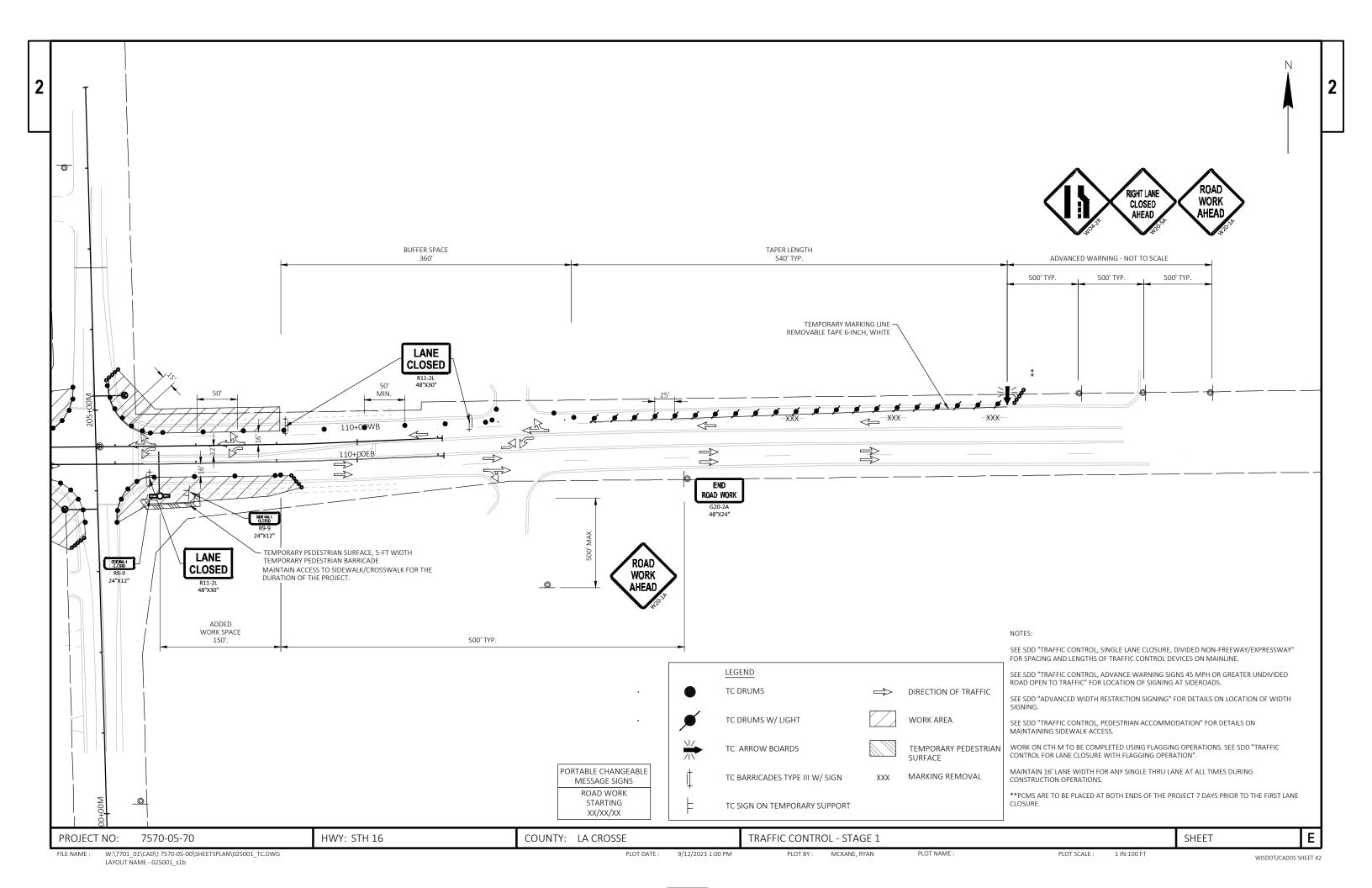






| PROJECT NO: 7570-05-70 | HWY: STH 16 | COUNTY: LA CROSSE | | TRAFFIC CONTROL - STAGE 1 | | | | |
|--|-------------|-------------------|-----------------|---------------------------|--------------|-------------|--|--|
| FILE NAME : W:\7701 01\CAD\! 7570-05-00\SHEETSPLAN\025001 TC.DWG | | PLOT DATE : 9/12 | 12/2023 1:00 PM | PLOT BY : | MCKANE, RYAN | PLOT NAME : | | |

WISDOT/CADDS SHEET 42

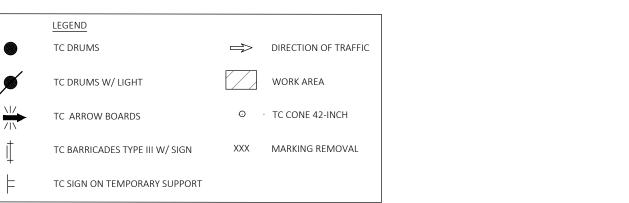


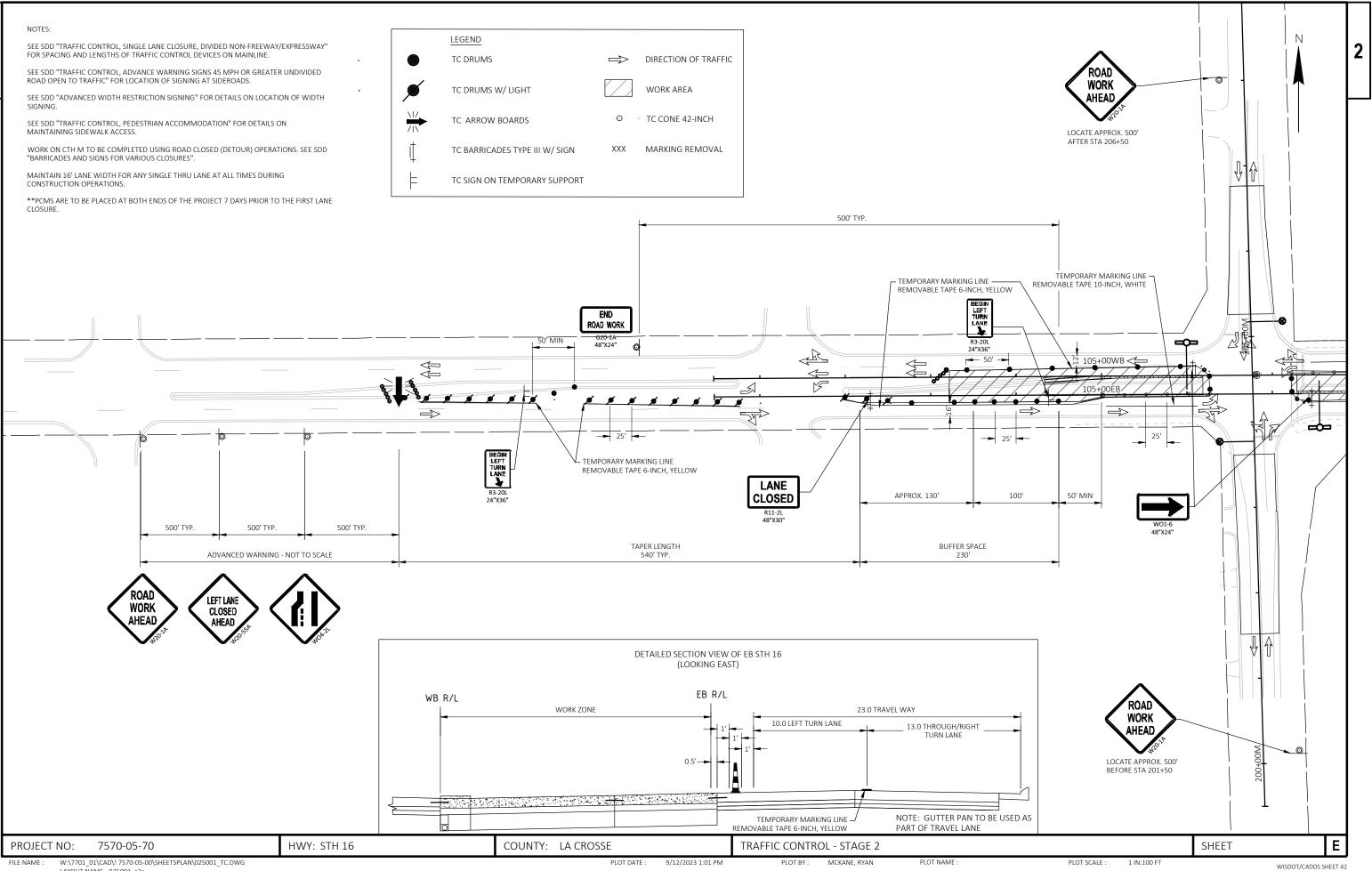
SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR SPACING AND LENGTHS OF TRAFFIC CONTROL DEVICES ON MAINLINE.

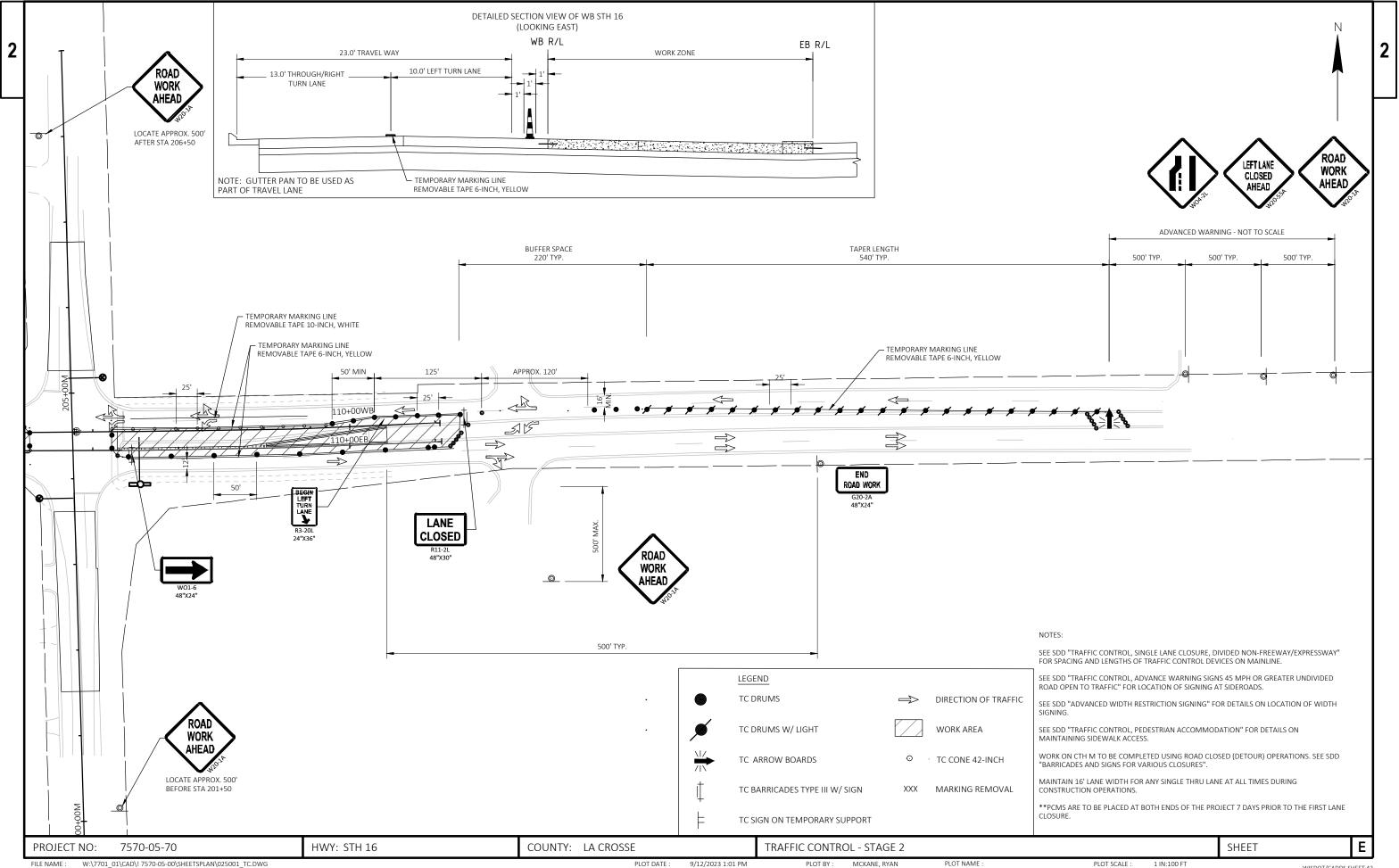
ROAD OPEN TO TRAFFIC" FOR LOCATION OF SIGNING AT SIDEROADS.

SIGNING.

MAINTAINING SIDEWALK ACCESS.







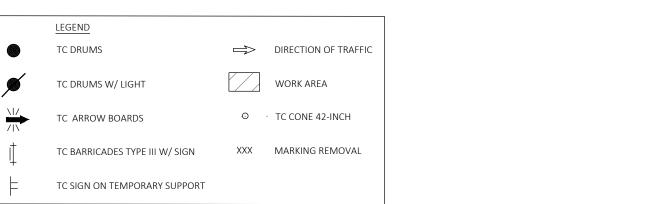
LAYOUT NAME - 025001 s2b

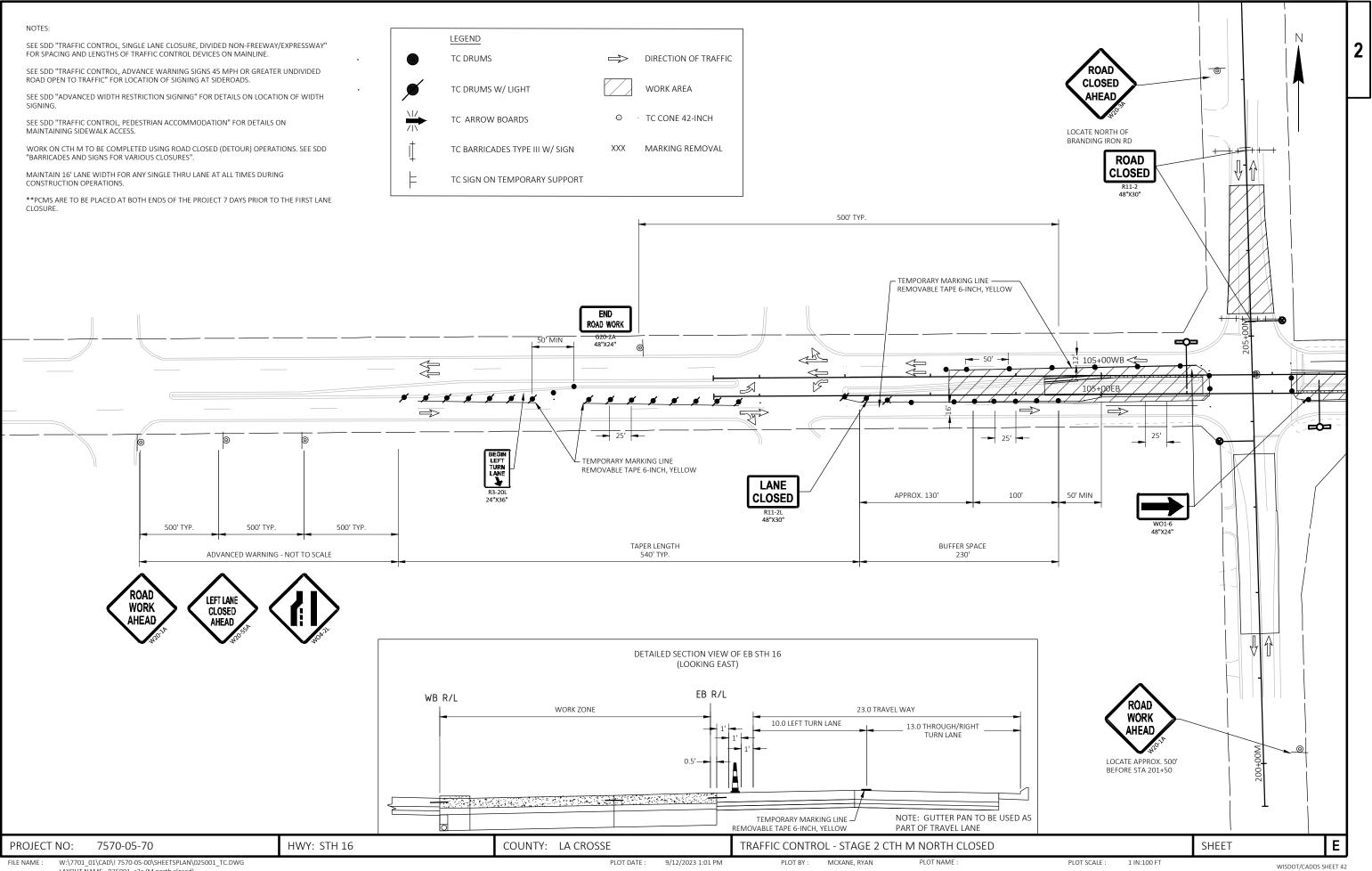
SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"

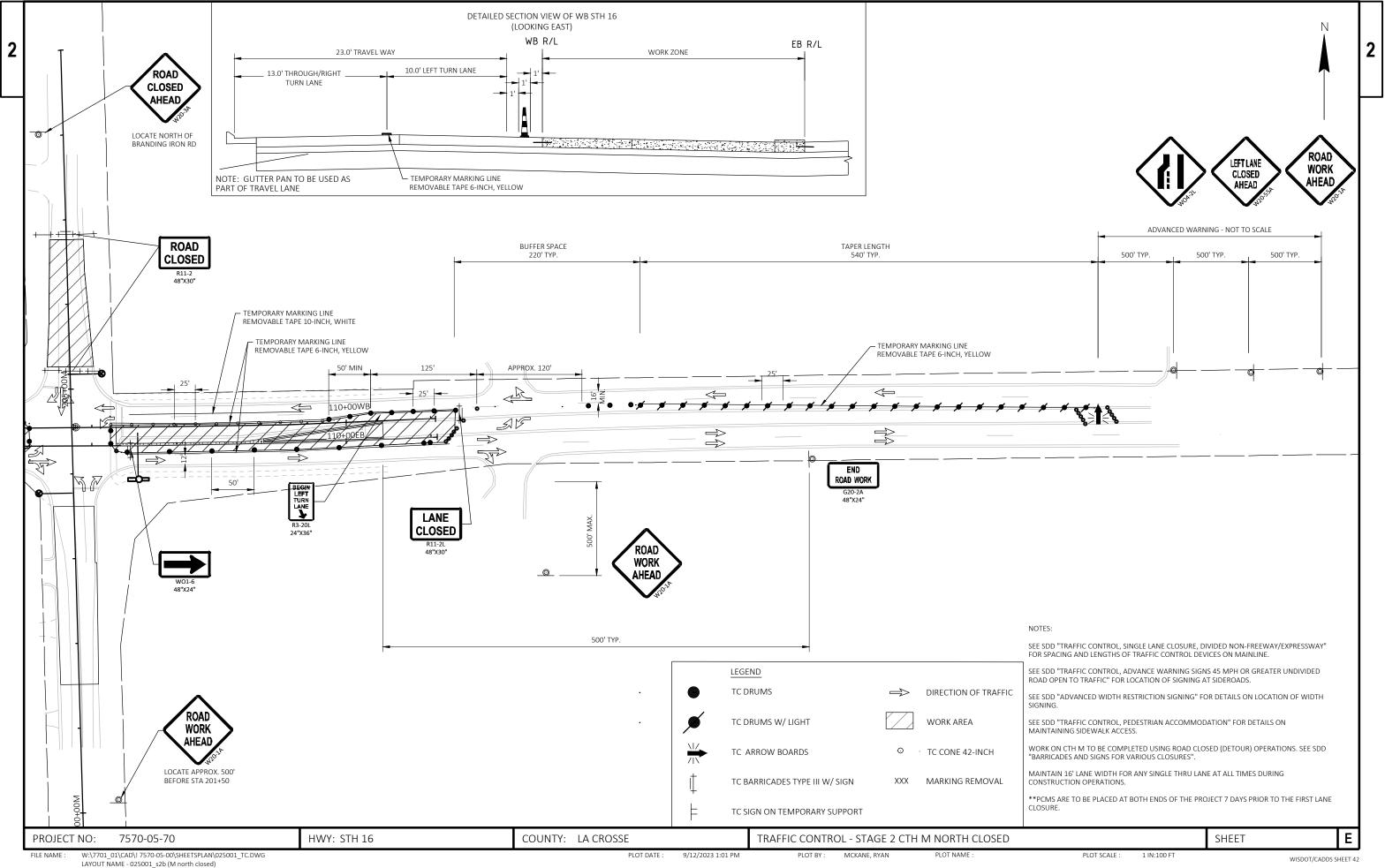
ROAD OPEN TO TRAFFIC" FOR LOCATION OF SIGNING AT SIDEROADS.

SIGNING.

MAINTAINING SIDEWALK ACCESS.





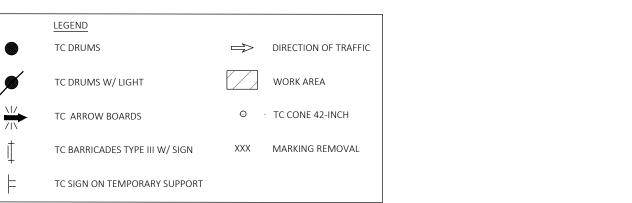


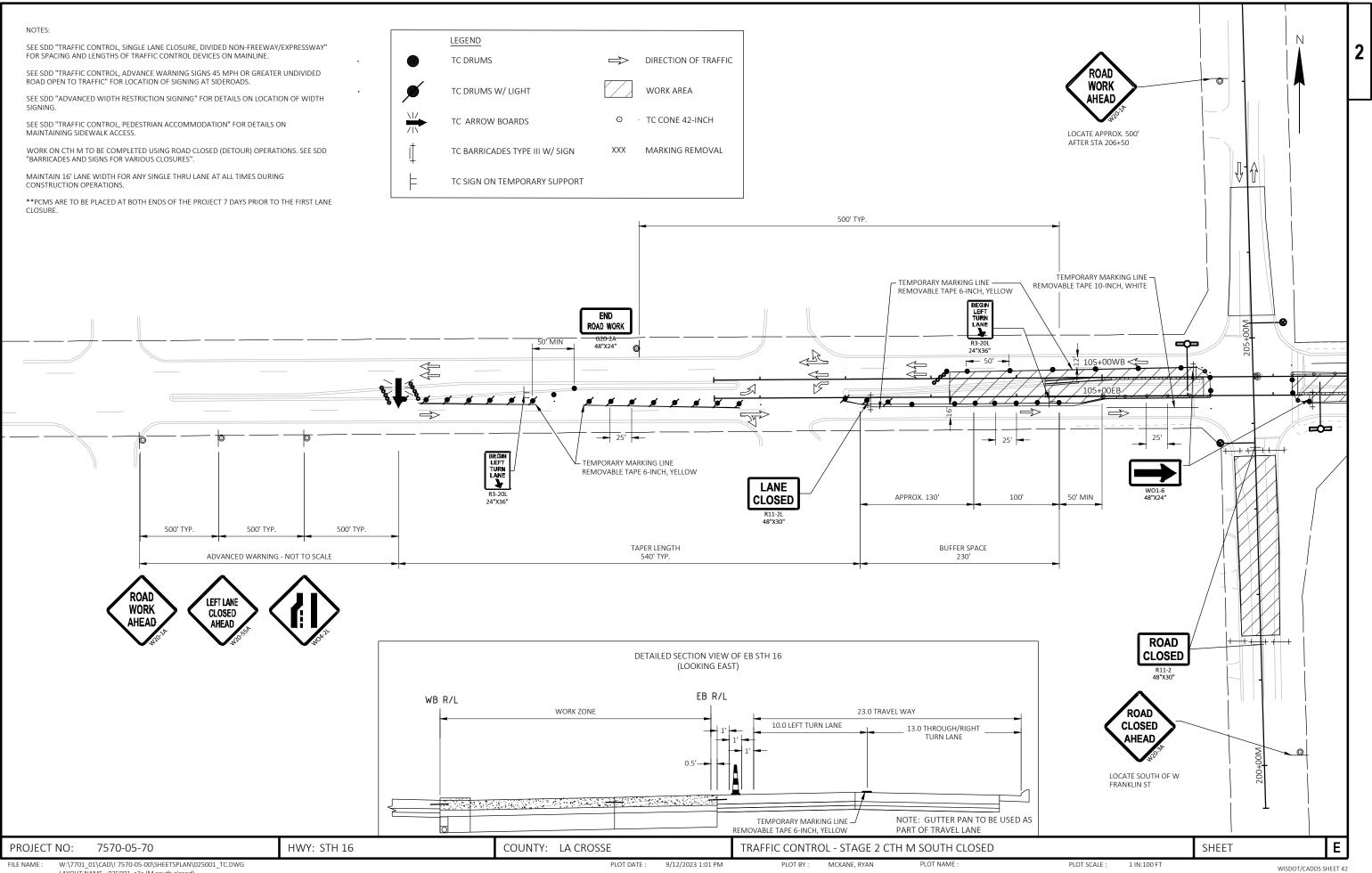
SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR SPACING AND LENGTHS OF TRAFFIC CONTROL DEVICES ON MAINLINE.

ROAD OPEN TO TRAFFIC" FOR LOCATION OF SIGNING AT SIDEROADS.

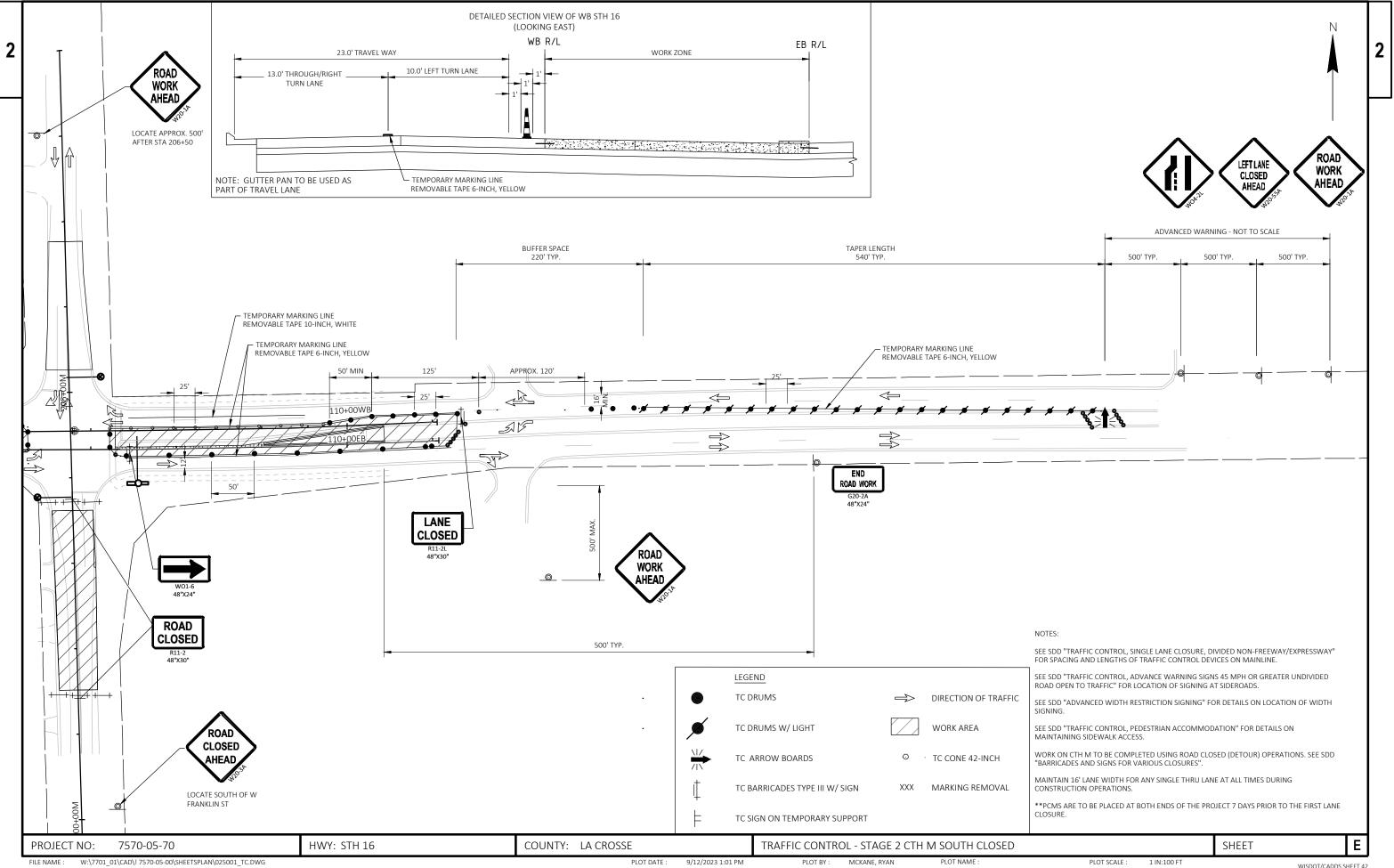
SIGNING.

MAINTAINING SIDEWALK ACCESS.

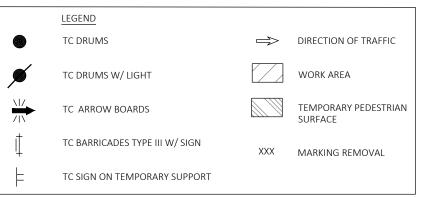


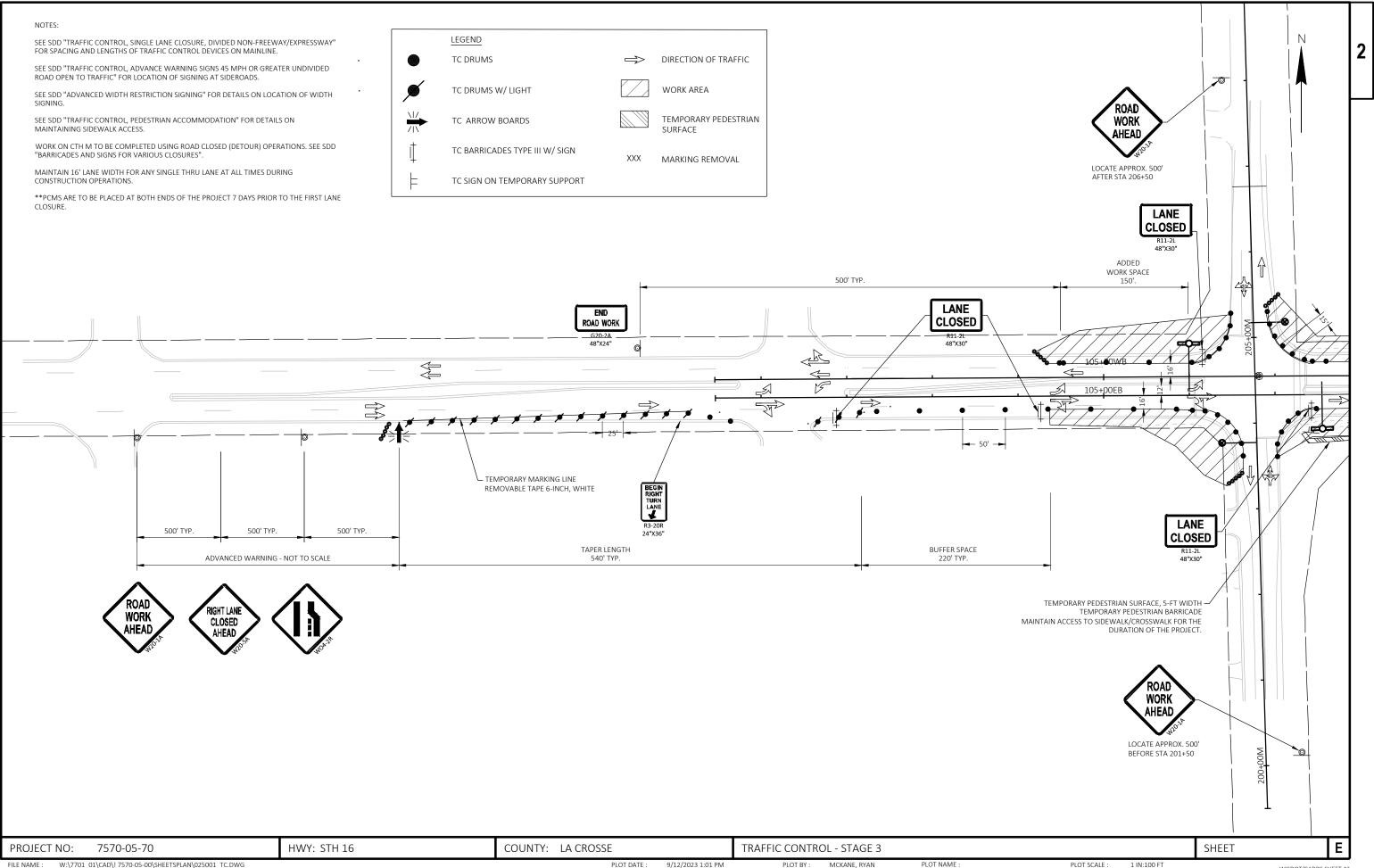


9/12/2023 1:01 PM PLOT BY :



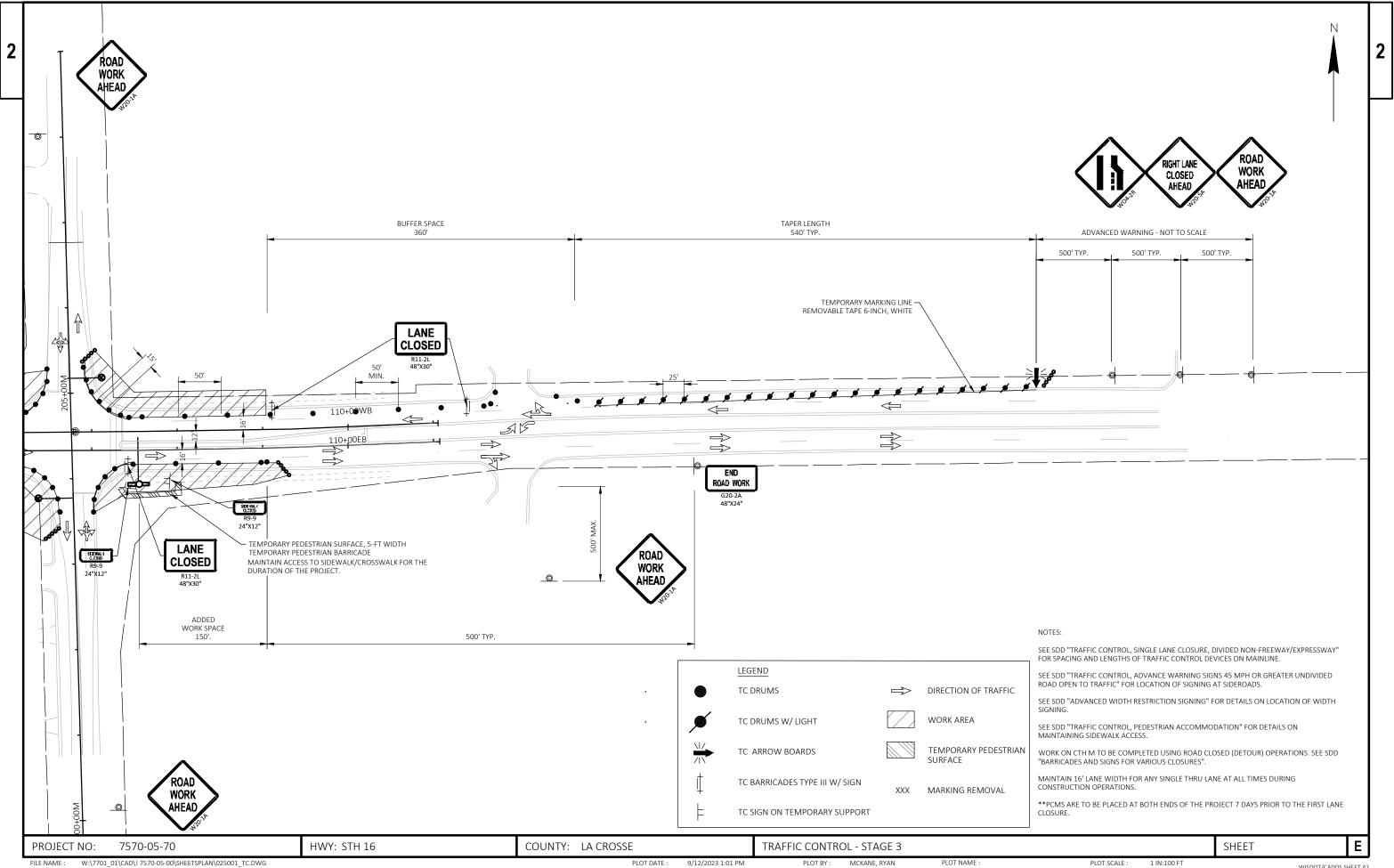
LAYOUT NAME - 025001_s2b (M south closed)





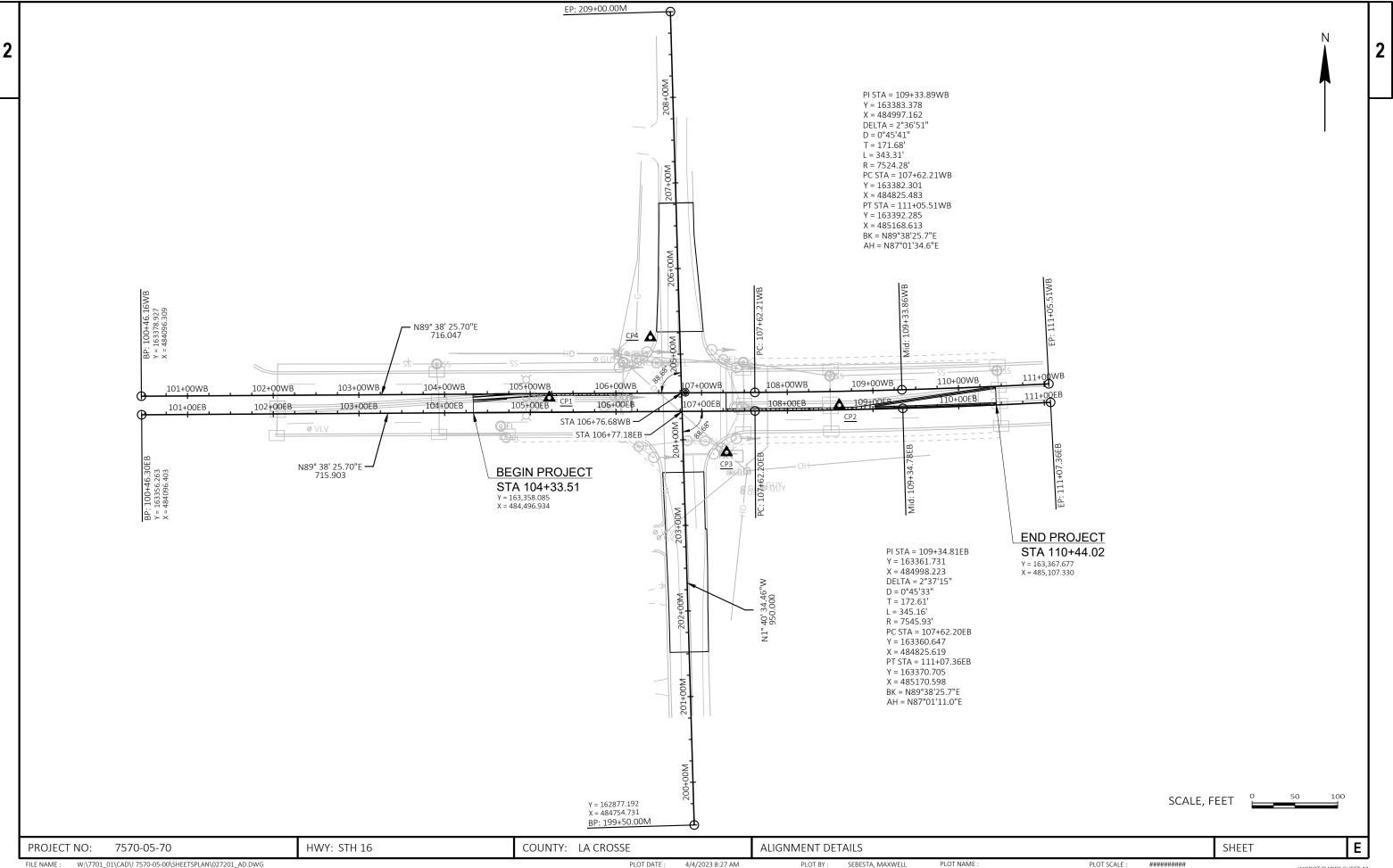
WISDOT/CADDS SHEET 42

| PROJECT NO: | | | COUNTY: LA CROSSE | | TRAFFIC CONTROL - STAGE 3 | | | |
|---------------------|--|--|-------------------|-------------------|---------------------------|--------------|-------------|--|
| FILE NAME : W:\7701 | 01\CAD\! 7570-05-00\SHEETSPLAN\025001 TC.DWG | | PLOT DATE : | 9/12/2023 1:01 PM | PLOT BY : | MCKANE, RYAN | PLOT NAME : | |



LAYOUT NAME - 025001_s3b

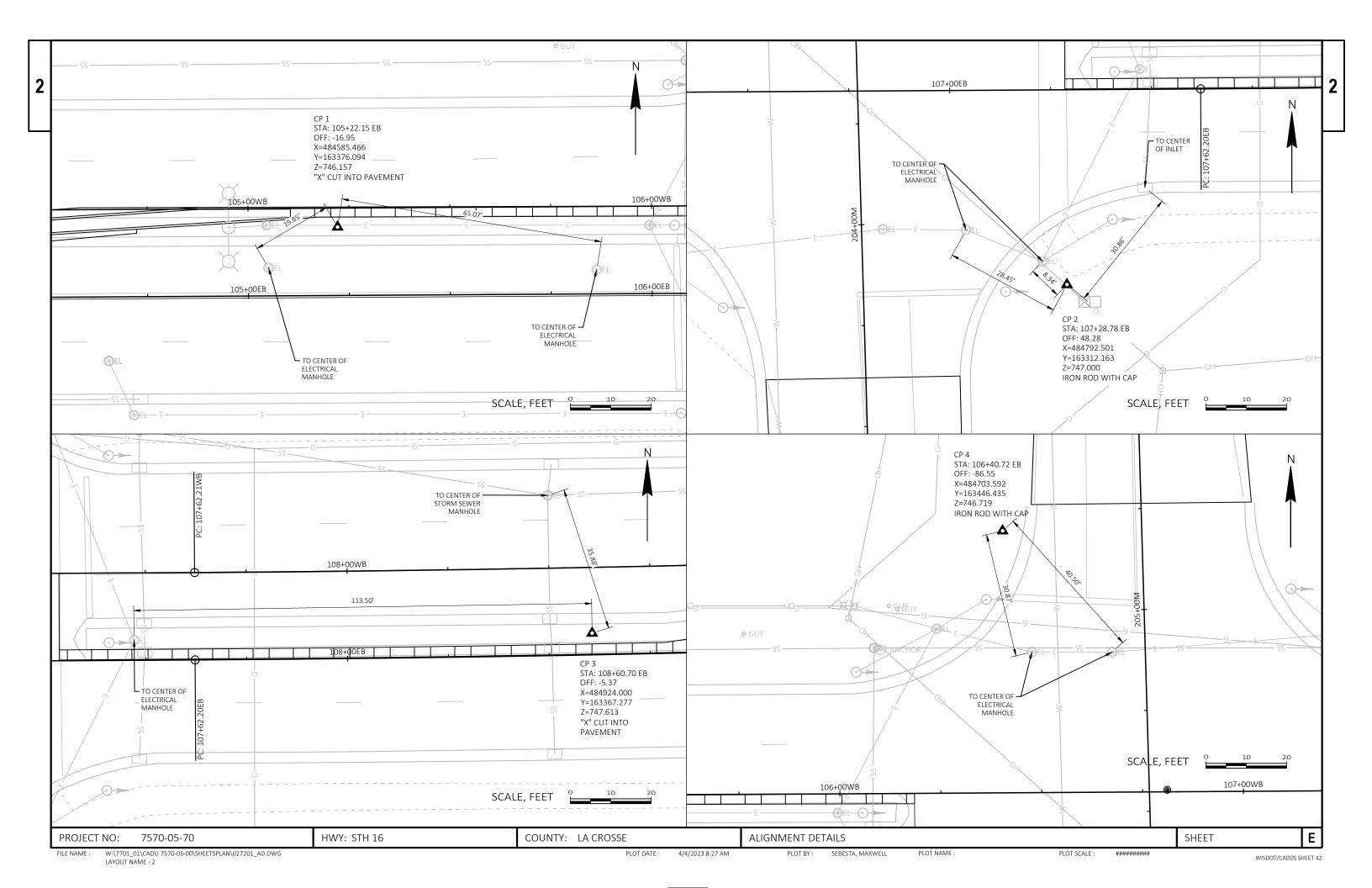
PLOT DATE : 9/12/2023 1:01 PM



FILE NAME : W:\7701_01\CAD\! 7570-05-00\SHEETSPLAN\027201_AD.DWG LAYOUT NAME - 1

PLOT DATE : 4/4/2023 8:27 AM PLOT BY : SEBESTA, MAXWELL

WISDOT/CADDS SHEET 42



Estimate Of Quantities

| | | | | | 7570-05-70 |
|------|----------------------|--|-------|-----------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 002 | 204.0100 | Removing Concrete Pavement | SY | 1,050.000 | 1,050.000 |
| 004 | 204.0115 | Removing Asphaltic Surface Butt Joints | SY | 209.000 | 209.000 |
| 006 | 204.0120 | Removing Asphaltic Surface Milling | SY | 1,647.000 | 1,647.000 |
| 800 | 204.0195 | Removing Concrete Bases | EACH | 7.000 | 7.000 |
| 010 | 204.0220 | Removing Inlets | EACH | 3.000 | 3.000 |
| 0012 | 204.0245 | Removing Storm Sewer (size) 01. 12-Inch | LF | 25.000 | 25.000 |
| 0014 | 204.9060.S | Removing (item description) 01. Traffic Signals | EACH | 7.000 | 7.000 |
| 0016 | 205.0100 | Excavation Common | CY | 426.000 | 426.000 |
| 0018 | 211.0101 | Prepare Foundation for Asphaltic Paving (project) 01. 7570-05-70 | EACH | 1.000 | 1.000 |
| 020 | 213.0100 | Finishing Roadway (project) 01. 7570-05-70 | EACH | 1.000 | 1.000 |
| 0022 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 20.000 | 20.000 |
| 024 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 173.000 | 173.000 |
| 026 | 312.0110 | Select Crushed Material | TON | 388.000 | 388.000 |
| 0028 | 415.1100 | Concrete Pavement HES 10-Inch | SY | 1,000.000 | 1,000.000 |
| 0030 | 416.0610 | Drilled Tie Bars | EACH | 333.000 | 333.000 |
| 0032 | 416.0620 | Drilled Dowel Bars | EACH | 61.000 | 61.000 |
| 0034 | 455.0605 | Tack Coat | GAL | 130.000 | 130.000 |
| 0036 | 465.0105 | Asphaltic Surface | TON | 208.000 | 208.000 |
| 0038 | 520.8000 | Concrete Collars for Pipe | EACH | 2.000 | 2.000 |
| 0040 | 601.0413 | Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G | LF | 155.000 | 155.000 |
| 0042 | 602.0405 | Concrete Sidewalk 4-Inch | SF | 239.000 | 239.000 |
| 044 | 608.0312 | Storm Sewer Pipe Reinforced Concrete Class III 12-Inch | LF | 71.000 | 71.000 |
| 0046 | 611.0430 | Reconstructing Inlets | EACH | 2.000 | 2.000 |
| 0048 | 611.0651 | Inlet Covers Type S | EACH | 4.000 | 4.000 |
| 0050 | 611.3220 | Inlets 2x2-FT | EACH | 2.000 | 2.000 |
| 0052 | 612.0104 | Pipe Underdrain 4-Inch | LF | 370.000 | 370.000 |
| 0054 | 618.0100 | Maintenance and Repair of Haul Roads (project) 01. 7570-05-70 | EACH | 1.000 | 1.000 |
| 0056 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 058 | 620.0100 | Concrete Corrugated Median | SF | 697.000 | 697.000 |
| 060 | 620.0300 | Concrete Median Sloped Nose | SF | 48.000 | 48.000 |
| 0062 | 624.0100 | Water | MGAL | 3.000 | 3.000 |
| 0064 | 628.1504 | Silt Fence | LF | 100.000 | 100.000 |
| 0066 | 628.1520 | Silt Fence Maintenance | LF | 100.000 | 100.000 |
| 0068 | 628.1905 | Mobilizations Erosion Control | EACH | 2.000 | 2.000 |
| 0070 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 1.000 | 1.000 |
| 072 | 628.7015 | Inlet Protection Type C | EACH | 4.000 | 4.000 |
| 0074 | 633.5350 | Markers Permanent Flexible | EACH | 2.000 | 2.000 |
| 0076 | 634.0614 | Posts Wood 4x6-Inch X 14-FT | EACH | 3.000 | 3.000 |
| 0078 | 637.2210 | Signs Type II Reflective H | SF | 19.100 | 19.100 |
| 080 | 638.2102 | Moving Signs Type II | EACH | 16.000 | 16.000 |
| 0082 | 638.2602 | Removing Signs Type II | EACH | 8.000 | 8.000 |
| 0084 | 638.3000 | Removing Small Sign Supports | EACH | 6.000 | 6.000 |
| 0086 | 642.5001 | Field Office Type B | EACH | 1.000 | 1.000 |
| 2088 | 643.0300 | Traffic Control Drums | DAY | 3,480.000 | 3,480.000 |
| 0090 | 643.0420 | Traffic Control Barricades Type III | DAY | 180.000 | 180.000 |
| 0092 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 280.000 | 280.000 |
| 0094 | 643.0715 | Traffic Control Warning Lights Type C | DAY | 1,160.000 | 1,160.000 |
| 0096 | 643.0800 | Traffic Control Arrow Boards | DAY | 60.000 | 60.000 |
| 0090 | 643.0900 | Traffic Control Signs | DAT | 538.000 | 538.000 |
| 0100 | 643.0900 643.0920 | Traffic Control Covering Signs Type II | EACH | 1.000 | 1.000 |
| 0100 | 040.0020 | | LAUIT | 1.000 | 1.000 |

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| | | | | | 7570-05-70 |
|------|----------|--|------|----------------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0102 | 643.1050 | Traffic Control Signs PCMS | DAY | 14.000 | 14.000 |
| 0104 | 643.1070 | Traffic Control Cones 42-Inch | DAY | 340.000 | 340.000 |
| 0106 | 643.3180 | Temporary Marking Line Removable Tape 6-Inch | LF | 3,088.000 | 3,088.000 |
| 0108 | 643.3280 | Temporary Marking Line Removable Tape 10-Inch | LF | 314.000 | 314.000 |
| 0110 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0112 | 644.1440 | Temporary Pedestrian Surface Matting | SF | 459.000 | 459.000 |
| 0114 | 644.1810 | Temporary Pedestrian Barricade | LF | 184.000 | 184.000 |
| 0116 | 646.2020 | Marking Line Epoxy 6-Inch | LF | 2,054.000 | 2,054.000 |
| 0118 | 646.4020 | Marking Line Epoxy 10-Inch | LF | 1,153.000 | 1,153.000 |
| 0120 | 646.5020 | Marking Arrow Epoxy | EACH | 7.000 | 7.000 |
| 0122 | 646.6120 | Marking Stop Line Epoxy 18-Inch | LF | 24.000 | 24.000 |
| 0124 | 646.7220 | Marking Chevron Epoxy 24-Inch | LF | 131.000 | 131.000 |
| 0126 | 646.7420 | Marking Crosswalk Epoxy Transverse Line 6-Inch | LF | 22.000 | 22.000 |
| 0128 | 646.8020 | Marking Corrugated Median Epoxy | SF | 266.000 | 266.000 |
| 0130 | 646.8120 | Marking Curb Epoxy | LF | 10.000 | 10.000 |
| 0132 | 646.8220 | Marking Island Nose Epoxy | EACH | 4.000 | 4.000 |
| 0134 | 646.9000 | Marking Removal Line 4-Inch | LF | 200.000 | 200.000 |
| 0136 | 650.4000 | Construction Staking Storm Sewer | EACH | 3.000 | 3.000 |
| 0138 | 650.7000 | Construction Staking Concrete Pavement | LF | 500.000 | 500.000 |
| 0140 | 650.8000 | Construction Staking Resurfacing Reference | LF | 361.000 | 361.000 |
| 0142 | 650.8501 | Construction Staking Electrical Installations (project) 01. 7570-05-70 | EACH | 1.000 | 1.000 |
| 0144 | 650.9911 | Construction Staking Supplemental Control (project) 01. 7570-05-70 | EACH | 1.000 | 1.000 |
| 0146 | 652.0225 | Conduit Rigid Nonmetallic Schedule 40 2-Inch | LF | 19.000 | 19.000 |
| 0148 | 652.0235 | Conduit Rigid Nonmetallic Schedule 40 3-Inch | LF | 399.000 | 399.000 |
| 0150 | 652.0615 | Conduit Special 3-Inch | LF | 426.000 | 426.000 |
| 0152 | 653.0164 | Pull Boxes Non-Conductive 24x42-Inch | EACH | 6.000 | 6.000 |
| 0154 | 653.0900 | Adjusting Pull Boxes | EACH | 17.000 | 17.000 |
| 0156 | 653.0905 | Removing Pull Boxes | EACH | 5.000 | 5.000 |
| 0158 | 654.0101 | Concrete Bases Type 1 | EACH | 1.000 | 1.000 |
| 0160 | 654.0105 | Concrete Bases Type 5 | EACH | 1.000 | 1.000 |
| 0162 | 654.0113 | Concrete Bases Type 13 | EACH | 2.000 | 2.000 |
| 0164 | 654.0120 | Concrete Bases Type 10-Special | EACH | 2.000 | 2.000 |
| 0166 | 655.0210 | Cable Traffic Signal 3-14 AWG | LF | 15.000 | 15.000 |
| 0168 | 655.0230 | Cable Traffic Signal 5-14 AWG | LF | 688.000 | 688.000 |
| 0170 | 655.0260 | Cable Traffic Signal 12-14 AWG | LF | 1,670.000 | 1,670.000 |
| 0170 | 655.0305 | Cable Type UF 2-12 AWG Grounded | LF | 889.000 | 889.000 |
| 0172 | 655.0515 | Electrical Wire Traffic Signals 10 AWG | LF | 1,069.000 | 1,069.000 |
| 0174 | 655.0610 | Electrical Wire Lighting 12 AWG | LF | 900.000 | 900.000 |
| 0178 | 655.0700 | Loop Detector Lead In Cable | LF | 2,081.000 | 2,081.000 |
| 0178 | 657.0100 | Pedestal Bases | EACH | 2,081.000 | 2,081.000 |
| 0180 | 657.0100 | Transformer Bases Breakaway 11 1/2-Inch Bolt Circle | EACH | 1.000 | 1.000 |
| 0182 | 657.0255 | Poles Type 5-Aluminum | EACH | | 1.000 |
| 0184 | 657.0322 | Traffic Signal Standards Aluminum 10-FT | EACH | 1.000 | 1.000 |
| 0186 | 657.0430 | Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT | EACH | 1.000 2.000 | 2.000 |
| 0188 | 658.0173 | Traffic Signal Face 3S 12-Inch | EACH | 2.000 | 8.000 |
| | | Traffic Signal Face 4S 12-Inch | | | |
| 0192 | 658.0174 | • | EACH | 2.000 | 2.000 |
| 0194 | 658.0416 | Pedestrian Signal Face 16-Inch | EACH | 1.000 | 1.000 |
| 0196 | 658.0500 | Pedestrian Push Buttons | EACH | 1.000 | 1.000 |
| 0198 | 658.5070 | Signal Mounting Hardware (location) 01. STH 16 & CTH M | EACH | 1.000 | 1.000 |
| 0200 | 659.1125 | Luminaires Utility LED C | EACH | 6.000 | 6.000 |
| | | | | | |

Estimate Of Quantities

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| | | | E | Estimate Of Q | uantities |
|------|------------|---|------|---------------|------------|
| | | | | | 7570-05-70 |
| Line | Item | Item Description | Unit | Total | Qty |
| 0202 | 659.5000.S | Lamp, Ballast, LED, Switch Disposal by Contractor | EACH | 14.000 | 14.000 |
| 0204 | 690.0250 | Sawing Concrete | LF | 1,087.000 | 1,087.000 |
| 0206 | 715.0720 | Incentive Compressive Strength Concrete Pavement | DOL | 300.000 | 300.000 |
| 0208 | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR | HRS | 1,200.000 | 1,200.000 |
| 0210 | ASP.1T0G | On-the-Job Training Graduate at \$5.00/HR | HRS | 600.000 | 600.000 |
| 0212 | SPV.0060 | Special 01. Grading, Shaping, and Finishing for Concrete Bases | EACH | 4.000 | 4.000 |
| 0214 | SPV.0060 | Special 02. Transport & Install Poles Type 10-Special | EACH | 2.000 | 2.000 |
| 0216 | SPV.0060 | Special 03. Transport & Install Poles Type 13-Over Height | EACH | 2.000 | 2.000 |
| 0218 | SPV.0060 | Special 04. Transport & Install Monotube Arms 35-FT Special | EACH | 1.000 | 1.000 |
| 0220 | SPV.0060 | Special 05. Transport & Install Monotube Arms 40-FT Special | EACH | 1.000 | 1.000 |
| 0222 | SPV.0060 | Special 06. Transport & Install Monotube Arms 55-FT Special | EACH | 2.000 | 2.000 |
| 0224 | SPV.0060 | Special 07. Transport & Install Luminaire Arms Steel 12-FT | EACH | 4.000 | 4.000 |
| 0226 | SPV.0060 | Special 08. Transport & Install Luminaire Arms Steel Type 13 Pole Clamp 15-FT | EACH | 2.000 | 2.000 |
| 0228 | SPV.0090 | Special 01. Concrete Gutter 30-Inch | LF | 284.000 | 284.000 |
| 0230 | SPV.0090 | Special 02. Install State-Supplied Non-Intrusive Detection Cable | LF | 410.000 | 410.000 |

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Page 3

| ſ | | | | | | REMOV | ING ASPHALT | IC SURFACE | | |
|---|---|--|--|---------------------------------|---|---|--|---|--|-------------------------------|
| 3 | CATEGORYSTATI ONTO STATI ON0010104+33-106+180010107+29-110+44 | EMOVING CONCRETE PAVEMENT 204.0100 LOCATION SY STH 16 EB 297 STH 16 WB 753 ROJECT TOTALS = 1,050 | REMARKS INCLUDE C&G AND SIDEWALK INCLUDE C&G AND SIDEWALK | | 201+52 M | - 203+62 M - 206+77 M | LOCATION CTH M CTH M T TOTALS = | REMOVI NG ASPHALTI C SURFACE BUTT JOI NTS 204. 0115 SY 104 105 209 | REMOVI NG ASPHALTI C SURFACE MI LLI NG 204. 0120 SY 985 662 1, 647 | REMARKS 2" MILL 2" MILL |
| | | | <u>REMOVING ST</u> | DRM SEWER ITE | MS | | | | | |
| | | CATEGORYSTATION0010106+080010107+500010108+51 | | INLETS SEWE | DVING STORM R (12-INCH) 204.0245 LF 7 9 9 25 | | <u> (S</u> | | | |
| | | CATEGORY STATION | COMMON | | 5. 0100 CY | REMARKS | | | | |
| | | 0010104+330010104+330010104+330010107+29 | - 106+18 STH 1 - 106+18 STH 1 - 106+14 STH 1 - 110+44 STH 1 - 110+44 STH 1 | 5 5 5 5 | 171 72 83 21 79 | 23" BELOW EX C 26" BELOW EX 32" BELOW EX S 4" BELOW EX 10" BELOW EX S | ONCRETE 〈 C&G I DEWALK C&G | | | |
| | | | PROJECT TO | TALS = | 426 | | | | | |
| | | | | BASE AGGREG | ATE DENSE | | | | | |
| | | CATEGORY STATI C | N TO STATION LOC, | DEM | SE AGGREGATE ISE 3/4-1 NCF 305. 0110 TON | | | I AL 110 | MARKS | |
| | | 0010 104+33 0010 107+29 | 8 - 106+18 STI 9 - 110+44 STI M - 206+77 M CT | H 16 H 16 H M TOTALS = | - - 20 | 153 20 - 173 | 388 - - | 3 UNDI S | TRI BUTED TRI BUTED | |
| ┞ | PROJECT NO: 7570-05-70 | HWY: STH 16 | COUNTY: LA CROSSE | | 20 | QUANTI TI ES | 388 | | SHE | ET E |

| <u>CONCRE</u> | TE | <u>I TEMS</u> |
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| | | | | | | | | | <u>IE IIEMS</u> | | | | | |
|------------|----------|------|---|--|-------------|---|---|---|---|---|---|--|--|-----------------|
| CATEGORY S | STATI ON | TO S | STATI ON | LOCATI ON | | CONCI PAVEN HES 10 415. S | RETE MENT)-INCH 1100 | CONCRETE CURB GUTTER 6-INCH SLOPED 30-INCH TYPE G 601.0413 LF | 1 | CONCRETE SIDEWALK 4-INC 602.0405 SF | CONCR CORRUG H MEDI 620. C SF | GATED AN D100 | CONCRETE MEDIAN SLOPED NOSE 620.0300 SF | REMARKS |
| 0010 | 104+33 | _ | 106+18 | STH 16 | | 37 | 78 | - | _ | _ | - | | - | EB LT TURN LANE |
| | 104+33 | | 105+10 | STH 16 | | - | | 155 | - | 239 | - | | 17 | |
| 0010 | 105+16 | - | 106+18 | STH 16 | | - | - | - | - | - | 250 | 6 | - | |
| | 107+28 | | 110+44 | STH 16 | | 48 | 35 | - | - | - | - | | - | WB LT TURN LANE |
| | 107+28 | | 108+97 | STH 16 | | - | | - | - | - | 44 | 1 | 31 | |
| | 109+03 | | 110+44 | STH 16 | | 13 | | - | 284 | - | - | | - | MEDI AN |
| F | PROJECT | | LIMITS | STH 16 | | | | - | - | - | - | | - | |
| | | | PRC | JECT TOTA | ALS = | = 1,0 | 000 | 155 | 284 | 239 | 69 | 7 | 48 | |
| | | | 0010 0010 0010 0010 0010 0010 0010 001 | 104+33 106+18 107+29 110+44 104+33 104+33 107+29 107+29 | - - - | - - - 106+18 106+18 110+44 110+44 | STH 1 STH 1 STH ST ST ST ST | H 16 BOP 6 WEST LEG 6 EAST LEG H 16 EOP TH 16 EB TH 16 WB TH 16 EB TH 16 WB CT TOTALS = | - - - 61 62 105 105 333 | 11 18 17 15 - - - - 61 | 1.5 1.5 | 5" DOWEL 5" DOWEL 5" DOWEL 5" DOWEL NO. 4 B, NO. 4 B, NO. 4 B, | DI AM. DI AM. DI AM. AR AR AR | |
| | | | | | | | | ASPHALT ITEM | IS SUMMARY | | | | | |
| | | | | | | | | F | PREPARE FOUNDATION DR ASPHALTIC PAVING 01. 7570-05-70 211.0101 | G TACK COAT 455.0605 | ASPHALTI C SURFACE 465. 0105 | | | |
| | | | CATEGORY | STATI ON | ТО | STATI ON | LOCA | ATION | EACH | GAL | TON | REMARKS | <u>;</u> | |
| | | | 0010 | 201+52 M | - 2 | 203+62 M | SOUTH | H CTH M | - | 76 | 122 | MT | | |
| | | | 0010 | 205+26 M | | | | H CTH M | - | 54 | 86 | MT | | |
| | | | 0010 | PROJECT | L | IMITS | СТ | ГН М | 1 | - | - | _ | | |
| | | | | | | | PROJECT | TOTALS = | 1 | 130 | 208 | | | |
| | | | | | | | | | | | | | | |
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| A <u>RKS</u> T T | | |
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| | | | | | | | | | | <u>ST0</u> | <u>RM SEWER</u> | STRUCTURES | | | | | | | | |
|-------------|--|--------------|---|--|--|--|---|--|--|---|--|---|-------------------------|---|---|---|---|---|--------------------------------------|---------|
| | | | | | CTURE 1 2 3 4 = RIM | STATI ON 106+08 107+50 108+51 108+99 ELEV - TO | OFFSET 20.4 L ⁻ 1.4 LT 1.6 LT 2.6 LT DP OF STRU | T STH 16 - STH 16 - STH 16 - STH 16 - STH 16 - PROJECT TO | 0N 5 5 5 5 5 5 5 5 5 7 7 ALS | DNSTRUCTI NG I NLETS D11. 0430 EACH - 1 1 - 2 - COVER HE | I NLET (TYPE 611. (EA(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | E S INLETS 0651 611.3 | 3220 CH E | RI M ELEVATI ON 746. 202 746. 691 747. 187 747. 540 I GHT | I NVERT ELEVATI ON 742. 530 743. 391 744. 237 744. 685 | (RIM- 2 2 1 | EPTH -1 NVERT) FT 2. 67 2. 30 1. 95 1. 86 | REMARKS | | |
| | | | | | | | | | | | | | | | <u>MOBILIZA</u> | TION EF | ROSION CO | NTROL | | |
| 10 | <u>5TA 1</u> 4+33 7+50 | - 10 | 6+18 | <u>LOCATI 0</u> STH 16 STH 16 | CO E | CONCRETE DLLARS FOF PI PE 520. 8000 EACH - 1 | STORM REINFORG CLASS | SEWER PIPES SEWER PIPE CED CONCRETE III 12-INCH 08.0312 LF - 11 | PI PE UNDERDRAI N 4-I NCH 612. 0104 LF 370 - | ELEVATI ON - | DI SCHARGE ELEVATI ON - IATCH EXI S | FT/FT | <u>CATEGORY</u> 0010 | LOCA PROJECT PROJECT | TI ON LI MI TS | MOBI LI ZA EROSI CONTF 628. 1 EAC 2 2 | ATIONS ION ROL 905 H | MOBI LI ZATI EMERGENC EROSI ON CONTROL 628. 191 EACH 1 1 | CY I - O | EMARKS |
| | ~ - 1 | - 10 - 10 | 8+99 | STH 16 STH 16 ECT TO1 | | 1 - 2 | | 11 49 71 | 370 | 744.237 M 744.685 | IATCH EXIS 744.237 | 6T – 0. 0091 | | EGORY 010 PRC | LOCATION STH 16 DJECT TOTAL | 6 | <u>TER</u> 524. 0100 <u>MGAL</u> 3 3 | | <u>REMARKS</u> /4-INCH BAI |) |
| | | | | | | | | SI ON CONTROL SI LT FENCE E MAI NTENANCE 628. 1520 | | CONCRETE | NG, AND G FOR BASES | | | | ***FOR INFO EROSION URBAN CLA TYPE 628.20 | MAT ASS 1 FE A | NAL PURPO ERTI LI ZER TYPE B 629. 0210 | SEEDING MIXTURE NO. 40 630.0140 | *** SEED WATE 630. 0500 | |
| (((| TEGORY 0010 0010 0010 0010 0010 | PROJ | TATION 103+93 104+73 - ECT LIMI ECT LIMI | S ⁻ S ⁻ C TS ST | LOCATIO TH 16 EN TH 16 EN TH M SO TH 16/CT TH 16/CT | B LT B RT DUTH TH M | LF - - - 100 | LF - - - - 100 | EACH 1 2 1 - | EACH - - 4 | HSOL | REMARKS I SLAND JTH OF JOB LIMI QUADRANTS UNDI STRI BUTED | TS | LOCATION SW QUAD SE QUAD NW QUAD NE QUAD ECT TOTALS | SY 24 31 53 35 | | CWT 0. 1 0. 1 0. 1 0. 1 0. 1 0. 1 0. 4 | LB 0. 5 0. 6 1. 0 0. 7 2. 8 | MGAL 2 2 3 2 9 | REMARK: |
| PRO | JECT | NO: 7 | /570-05- | | ECT TO | TALS = HWY: | 100 STH 16 | 100 | 4 COUNTY | 4 LA CROSSE | | MI SCELLA | | IANTI TI ES | | | | | SHEET | |

| | | | | 633. 5350 | |
|----------|----------|---------|------------------|-----------|------------------------|
| CATEGORY | STATI ON | OFFSET | LOCATI ON | EACH | REMARKS |
| 0010 | 106+17 | 20. 10' | STH 16 EB LT | 1 | CORRUGATED MEDIAN NOSE |
| 0010 | 107+30 | 1. 25' | STH 16 EB LT | 1 | CORRUGATED MEDIAN NOSE |
| | | | PROJECT TOTALS = | 2 | |

MARKERS PERMANENT FLEXIBLE

PERMANENT SIGN SUMMARY

| SI GN | | | SI ZE | SI GN | | POSTS WOOD 4X6-INCH X 14-FT 634.0614 | SIGNS TYPE II REFLECTIVE H 637.2210 | MOVING SIGNS TYPE II 638.2102 | REMOVI NG SI GNS TYPE II 638. 2602 | REMOVI NG SMALL SI GNS SUPPORTS 638. 3000 | |
|-------|-----------|--------|---------|--------|--|---|---|--|---|--|---|
| NO. | STA | LOC. | in X in | CODE | DESCRI PTI ON | EACH | SF | EACH | EACH | EACH | REMARKS |
| 1 | 104+35 EB | 16' LT | 24 X 30 | R6-2R | ONE WAY RIGHT ARROW | 1 | 5.00 | - | 1 | 1 | REMOVE AND REPLACE IN KIND |
| 2 | 106+04 EB | 52' LT | 30 X 36 | R6-2L | ONE WAY LEFT ARROW | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 3 | 106+06 EB | 17' LT | 24 X 30 | R4-7 | KEEP RIGHT | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 4 | 106+06 EB | 17' LT | 36 X 36 | R-1-1F | STOP (FOLDING SIGN) | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 5 | 106+07 EB | 30' RT | 36 X 36 | R5-1 | DO NOT ENTER | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 6 | 106+07 EB | 30' RT | 36 X 36 | R-1-1F | STOP (FOLDING SIGN) | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 7 | 106+32 EB | 70' LT | 24 X 24 | M1-6 | STATE ROUTE MARKER (16) | 1 | 4.00 | - | 1 | 1 | REMOVE AND REPLACE IN KIND |
| , | 100+32 LD | 70 LI | 21 X 21 | M6-4 | DIRECTIONAL ARROWS LEFT - RIGHT | I | 3.06 | - | 1 | I | REMOVE AND REPLACE IN KIND |
| 8 | 106+37 EB | 70' LT | 30 X 24 | R6-3 | DIVIDED HIGHWAY CROSSING SIGN & INTERSECTION | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 9 | 106+37 EB | 70' LT | 36 X 36 | R-1-1F | STOP (FOLDING SIGN) | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 10 | 107+14 EB | 50' RT | 30 X 24 | R6-3 | DIVIDED HIGHWAY CROSSING SIGN & INTERSECTION | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 11 | 107+14 EB | 50' RT | 36 X 36 | | STOP (FOLDING SIGN) | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 12 | 107+18 EB | 50' RT | 24 X 24 | M1-6 | STATE ROUTE MARKER (16) | 1 | 4.00 | 1 | 1 | 1 | REMOVE AND REPLACE IN KIND |
| 12 | | | 21 X 21 | M6-4 | DIRECTIONAL ARROWS LEFT - RIGHT | 1 | 3.06 | 1 | 1 | | REMOVE AND REPLACE IN KIND |
| 13 | 107+40 EB | 32' RT | 30 X 36 | R6-2L | ONE WAY LEFT ARROW | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 14 | 107+41 EB | 04' LT | 24 X 30 | R4-7 | KEEP RIGHT | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 15 | 107+41 EB | 04' LT | 36 X 36 | R-1-1F | STOP (FOLDING SIGN) | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 16 | 107+41 EB | 51' LT | 36 X 36 | R5-1 | DO NOT ENTER | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 17 | 107+41 EB | 51' LT | 36 X 36 | | | - | - | 1 | - | - | ON EXISTING SIGNAL, MOVE TO PROPOSED SIGNAL |
| 18 | 110+18 EB | 11' LT | 24 X 30 | R4-7 | KEEP RIGHT | - | - | - | 1 | 1 | REMOVE SIGN AND POST |
| 19 | 200+45 M | 26' RT | 30 X 36 | | LEFT ONLY & RIGHT/THROUGH | - | - | - | 1 | 1 | REMOVE SIGN AND POST |
| 20 | 208+35 M | 21' LT | 30 X 36 | R3-8LF | LEFT ONLY & RIGHT/THROUGH | - | - | - | 1 | 1 | REMOVE SIGN AND POST |
| | | | | | PROJECT TOTALS = | - 3 | 19.1 | 16 | 8 | 6 | = |

| PROJECT NO: 7570-05-70 | HWY: STH 16 | COUNTY: LA CROSSE | MI SCELLANEOUS QUANTI TI ES |
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| CATEGOR 0010 0010 0010 0010 0010 0010 0010 00 | 104+33 - 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - 105+36 - 201+52 M - 201+52 M - 201+52 M - 201+52 M - 201+52 M - | 109+03 110+40 110+40 108+91 206+77 M 206+77 M 206+77 M 206+77 M | STH 16 STH 16 STH 16 STH 16 STH 16 CTH M CTH M | - - - 808 758 - - - - - 2,054 | - - - - 185 197 - 1, 153 | - - - - - 3 | - - - - - - - - 24 | - 131 - - - - - - - 131 | - 22 - - - - - - 22 | - - 266 - - - - - - 266 | 10 - - - - - - - - 10 | - 2 - - - | SLOPED NOSE CHEVRON MARKING - WHITE CROSSWALK - WHITE CORR MEDIAN MARKING - YELLOW CENTERLINE - DOUBLE YELLOW EDGELINES - WHITE 10" CHANNELIZING - WHITE CHANNELIZING SKIPS - WHITE TURN LANE - WHITE |
|---|--|--|--|---|--|----------------------------|--|--|---|--|--|-----------------------|---|
| 0010 0010 0010 0010 0010 0010 0010 001 | 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - 105+36 - 201+52 M - 201+52 M - 201+52 M - 201+52 M - | 109+03 110+40 110+40 108+91 206+77 M 206+77 M 206+77 M 206+77 M | STH 16 STH 16 STH 16 STH 16 CTH M CTH M CTH M CTH M | 808 758 - | 185 197 | - - - - - 3 | - - - - - - - - | - 131 - - - - - - - | - 22 - - - - - - | - - 266 - - - - - | - - - - - - - | - 2 - - - | CHEVRON MARKING - WHITE CROSSWALK - WHITE CORR MEDIAN MARKING - YELLOW CENTERLINE - DOUBLE YELLOW EDGELINES - WHITE 10" CHANNELIZING - WHITE CHANNELIZING SKIPS - WHITE |
| 0010 0010 0010 0010 0010 0010 0010 001 | 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - 105+36 - 201+52 M - 201+52 M - 201+52 M - 201+52 M - | 109+03 110+40 110+40 108+91 206+77 M 206+77 M 206+77 M 206+77 M | STH 16 STH 16 STH 16 STH 16 CTH M CTH M CTH M CTH M | 808 758 - | 185 | | - - - - - - - | - 131 - - - - - - | - 22 - - - - | - - 266 - - - - | - - - - - - | - 2 - - - | CHEVRON MARKING - WHITE CROSSWALK - WHITE CORR MEDIAN MARKING - YELLOW CENTERLINE - DOUBLE YELLOW EDGELINES - WHITE 10" CHANNELIZING - WHITE CHANNELIZING SKIPS - WHITE |
| 0010 0010 0010 0010 0010 0010 0010 001 | 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - 105+36 - 201+52 M - 201+52 M - 201+52 M - | 109+03 110+40 110+40 108+91 206+77 M 206+77 M 206+77 M | STH 16 STH 16 STH 16 STH 16 CTH M CTH M | 808 758 | | - - - - - | - - - - - - | - 131 - - - - - | - 22 - - - | - - 266 - - | - - - - - | - - 2 - - | CHEVRON MARKING - WHITE CROSSWALK - WHITE CORR MEDIAN MARKING - YELLO CENTERLINE - DOUBLE YELLOW EDGELINES - WHITE 10" CHANNELIZING - WHITE |
| 0010 0010 0010 0010 0010 0010 0010 001 | 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - 105+36 - 201+52 M - | 109+03 110+40 110+40 108+91 206+77 M | STH 16 STH 16 STH 16 STH 16 CTH M | 808 | - - - - - | - - - - - | - - - - - | - 131 - - - - | - 22 - - | - - 266 - | - - - - - | - - 2 - | CHEVRON MARKING - WHITE CROSSWALK - WHITE CORR MEDIAN MARKING - YELLO CENTERLINE - DOUBLE YELLOW |
| 0010 0010 0010 0010 0010 0010 0010 001 | 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - 105+36 - | 109+03 110+40 110+40 108+91 | STH 16 STH 16 STH 16 STH 16 | | | - - - - | - - - - | - 131 - - | - - 22 - | - - 266 - | - - - - | - - 2 | CHEVRON MARKING - WHITE CROSSWALK - WHITE CORR MEDIAN MARKING - YELLO |
| 0010 0010 0010 0010 0010 0010 0010 | 104+33 - 104+33 - 105+05 - 106+14 - 106+14 - | 109+03 110+40 110+40 | STH 16 STH 16 STH 16 | - - - | - - - | | - - - | - 131 - - | - - 22 - | - - - 266 | - - - | - | CHEVRON MARKING - WHITE CROSSWALK - WHITE |
| 0010 0010 0010 0010 0010 0010 | 104+33 - 104+33 - 105+05 - 106+14 - | 109+03 110+40 | STH 16 STH 16 | - - | - - | - - | - - | - 131 - | - - 22 | - - | | - | CHEVRON MARKING - WHITE |
| 0010 0010 0010 0010 0010 | 104+33 - 104+33 - 105+05 - | 109+03 | STH 16 | - | - | - | - | - 131 | - | - | - | | |
| 0010 0010 0010 0010 | 104+33 - 104+33 - | | | _ | _ | _ | - | _ | _ | - | 1() | | SLOPED NOSE |
| 0010 0010 0010 | 104+33 - | | | - | - | = | 24 | - | - | - | - | | |
| 0010 0010 | | | | - | - | 4 | - 24 | - | - | - | - | | STOP BAR - WHITE |
| 0010 | 111/11 < < | 110 10 | STH 16 STH 16 | - | 771 | - 1 | - | - | - | - | - | | 10" CHANNELIZING - WHITE TURN LANE - WHITE |
| | 104+33 - 104+33 - | 110112 | STH 16 | 488 | - 771 | - | - | - | - | - | - | | INSIDE EDGELINE - YELLOW |
| ATEGOR | | | | | | 2.1011 | <u>_</u> ! | <u> </u> | L' | 01 | L' | | |
| | Y STATION TO |) STATION | LOCATI ON | LF | LF | EACH | LF | LF | LF | SF | LF | EACH | REMARKS |
| | | | | 646. 2020 | 646. 4020 | 646. 5020 | 646. 6120 | 646. 7220 | 646. 7420 | 646. 8020 | 646. 8120 | 646. 8220 | |
| | | | | 6-INCH | LINE EPOXY 10-INCH | ARROW EPOXY | LINE EPOXY CI 18-INCH | HEVRON EPOXY 24-INCH | EPOXY TRANSVERSE LINE 6-INCH | CORRUGATED MEDIAN EPOXY | MARKING CURB EPOXY | I SLAND NOSE EPOXY | |
| | | | | | | | | | ARKING CROSSWALK | | | MARKING | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | PAVEMENT | MARKING SUMM | ARY | | | | |
| | PROJECT TOTA | ALS 3, (|)88 | 314 | 200 |) — | | | | | | | |
| 0010 | UNDI STRI BUT | | - | - | 50 | | | | | | | | |
| 0010 | STAGE 3 | | - | - | - | | | | | | | | |
| 0010 | STAGE 2 | | 235 | 314 | - | | | | PROJECT TOTALS | = 45 | 9 | 184 | |
| 0010 | STAGE 1 | 8! | | - | 150 |) | | 0010 | STAGE 1 - SE QUA | D 45 | 9 | 184 | |
| ATEGORY | | | F | LF | LF | | EMARKS | CATEGORY | LOCATI ON | SF | | LF | REMARKS |
| | | | 3180 F | 643.3280 | | | | | | 644. 1 | | 644.181 | |
| | | 6-1 | | 10-I NCH | 4-1 N | | | | | SURFACE | | BARRI CAI | |
| | | | | | APE REMOVAL | | | | | | PEDESTRI AN TE | | |
| | | MARKIN | G LINE | MARKING LI | NE MARKI | | | | | | | | |
| | | TEMPO | ORARY | TEMPORAR' | (| | | | | TEMPORARY | PEDESTRI AN | <u>ACCESS</u> | |
| | | TEMPORRY | MARKING | AND REMOV | AL SUMMARY | | | | | | | | |
| | PROJECT TOTA | ALS 3,48 | | 180 | 280 | 1, 160 | 60 | 538 | I | 14 | 340 | | |
| | | | | | | | | - | | | | | |
| 0010 | UNDI STRI BUT | | , | 40 | 60 | - | - | - 105 | - 1 | - 14 | - | - 1 | - 1 |
| 0010 0010 | STAGE 2 STAGE 3 | 2, 24 620 | | 100 40 | 160 | 780 190 | 40 10 | 328 105 | - | - | 340 | - | - |
| 0010 | STAGE 1 | 620 | | 40 | 60 | 190 | 10 | 105 | - | - | - | - | - |
| ATEGORY | | | | DAY | DAY | DAY | DAY | DAY | EACH | DAY | DAY | # CYCL | ES # SI GNS REMARKS |
| | | 643.0 | | 43.0420 | 643.0705 | 643.0715 | 643.0800 | | | 643.1050 | 643.107 | | |
| | | DRUM | S T | YPE III LI | GHTS TYPE A | LIGHTS TYPE | C BOARDS | CONTROL SI | GNS TYPE II | PCMS | CONES 42- | I NCH | |
| | | CONTR | | RRI CADES | WARNI NG | WARNI NG | CONTROL ARR | OW TRAFFIC | | IS CONTROL SIGN | | | |
| | | TRAFF | | ONTROL | CONTROL | CONTROL | TRAFFIC | | CONTROL | TRAFFIC | TRAFFI | C | |
| | | | т | RAFFIC | TRAFFIC | TRAFFIC | | | TRAFFI C | | | | |
| | | | | | | | <u></u> | | | | | | |
| | | | | | | | <u>TRAFFIC (</u> | CONTROL SUMMA | <u>IRY</u> | | | | |

CONSTRUCTION STAKING SUMMARY

| | | | | | | CONSTRUCTI ON | CONSTRUCTI ON | |
|----------|----------|----|----------|-----------|---------------|---------------|---------------------|----------------------|
| | | | | | CONSTRUCTI ON | STAKI NG | STAKI NG | CONSTRUCTION STAKING |
| | | | | | STAKI NG | CONCRETE | RESURFACI NG | SUPPLEMENTAL CONTROL |
| | | | | | STORM SEWER | PAVEMENT | REFERENCE | (7570-05-70) |
| | | | | | 650.4000 | 650.7000 | 650.8000 | 650. 9911 |
| CATEGORY | STATI ON | TO | STATI ON | LOCATI ON | EACH | LF | LF | EACH |
| 0010 | 106+08 | - | 106+08 | STH 16 | 1 | - | - | - |
| 0010 | 107+50 | - | 107+50 | STH 16 | 1 | - | - | _ |
| 0010 | 108+51 | - | 108+51 | STH 16 | 1 | - | - | - |
| 0010 | 104+33 | - | 106+18 | STH 16 | - | 185 | - | - |
| 0010 | 107+29 | - | 110+44 | STH 16 | - | 315 | - | - |
| 0010 | 201+52 M | - | 203+62 M | СТН М | - | - | 210 | - |
| 0010 | 205+26 M | - | 206+77 M | СТН М | - | - | 151 | - |
| 0010 | BOP | - | EOP | STH 16 | - | - | - | 1 |
| | | | PROJECT | TOTALS = | 3 | 500 | 361 | 1 |

SAWING CONCRETE

| | | | 690. 0250 | | | | | |
|----------|------------------|----|------------------|------------------|------------|----------------------|--|--|
| CATEGORY | STATI ON | TO | STATI ON | LOCATI ON | LF | REMARKS | | |
| 0010 | 104+33 107+29 | - | 106+18 110+44 | STH 16 STH 16 | 414 673 | WEST LEG EAST LEG | | |
| 0010 | 107.27 | | | PROJECT TOTAL = | | - | | |

| PROJECT NO: 7570-05-70 | HWY: STH 16 | COUNTY: LA CROSSE | MI SCELLANEOUS QUANTI TI ES |
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REMARKS

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| Construction Construction Construction Construction Normatchile Normatchile <td< th=""><th></th><th></th><th></th><th></th><th>Total</th><th> 1 </th><th>1</th><th> 7</th><th> 7</th><th></th><th>17</th><th> </th><th>5</th><th>14</th><th></th><th>SHEET N</th><th></th><th></th></td<> | | | | | Total | 1 | 1 | 7 | 7 | | 17 | | 5 | 14 | | SHEET N | | |
|--|--|--------------------------------|----------------------|---|--------------------------|--|--|--|---|---|---|---|--|-------------------------------------|-------------|---------|--|----------|
| Conduit Rigid Conduit Rigid Conduit Rigid Conduit Rigid Conduit Rigid Conduit Rigid Special Rigid Specia Rigid Special Rigid Special R | | 0010 | 107 + 31 | RI GHT | | 1 | 1 | 7 | | | | | 5 | | Existing | J SC1 | | |
| Category Station to Station to Station Category Station Station | | | | | | | | | | | | | | | | | | |
| Conduit R igi al | | Category | Station | Dir | Locati on | Installations 7570-05-70 | | Bases | Si gn | al s | Boxes | Во | xes | Disposal by Contractor | Descript | i on | | |
| Category Station to Station to Station to Station tr Schedule 40 2-1 nch Schedule 40 3-1 nch Schedule 40 40010 Schedule 40 3-1 nch Schedule 40 40010 Schedule 40 4010 | | | | | | Constructi on Staki ng | Signal Mounting | Remo∨i ng | Remov | vi ng | Adj usti ng | Remo | oving La | amp, Ballast, | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | Floctrico | al Itoms | | | | | | | | | | | | | | |
| Category Station to Station Conduit Rigid Conduit Rigid Conduit Rigid Conduit Rigid Special Spe | | | | | _ | | | Total | 19 | 399 | 426 | | | | | | | |
| | | | | | <u>(</u> | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 84 to 10 84 to 10 84 to 10 58 to 10 58 to 10 58 to 10 62 to 10 07 to 10 37 to 10 99 to 10 12 to 10 55 to 10 92 to 10 | $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ | Nonmetallic Schedule 40 2-Inch LF 7 12 | Nonmetal I i c Schedul e 40 3-I nch LF 87 83 69 83 19 17 27 14 | Speci al 3-1 nch LF 166 161 47 52 | Description PB1 to PB1 to PB2 to PB3 to PB3 to PB4 to PB5 to SB1 to SB2 to SB3 to SB4 to PB5 to | PB2 Existing PB10 Existing PB10 PB4 Existing PB10 Existing PB10 Existing PB10 PB2 Existing PB10 PB4 PB6 LB1 | 4 5 1 4 2 5 | | | | |
| | 0010 107 + 5 0010 107 + 6 0010 105 + | 8 LEFT 2 RI GHT 7 RI GHT | 52 28 29 20 | 1 1 1 1 | PB3 PB4 PB5 PB6 | | | | | | 001010001010001010001010 | 5 + 99 LEF 7 + 12 LEF 7 + 55 RIGH 4 + 86 LEF | T 60 T 85 HT 40 T 19 | 1 | 1 | 1 1 | SB1 SB2 SB3 SB4 LB1 SB5 | |
| 0010107 + 58LEFT521PB30010105 + 99LEFT6011SB20010107 + 62RI GHT281PB40010107 + 12LEFT8511SB30010105 + 7RI GHT291PB50010107 + 55RI GHT401SB40010104 + 92LEFT201PB60010104 + 86LEFT191LB1 | 0010 105 + 8 | 4 RI GHT | 30 | <u>EACH</u> 1 1 | PB1 | ription | | | | Ca | | | | | | | CH Descri | i pti on |
| 0010 105 + 84 RI GHT 30 1 PB1 0010 105 + 84 LEFT 53 1 PB2 010 106 + 37 RI GHT 56 L L L 1 SB1 0010 107 + 58 LEFT 52 1 PB3 0010 105 + 99 LEFT 60 L L 1 SB1 0010 107 + 62 RI GHT 28 1 PB4 0010 107 + 12 LEFT 60 1 1 SB2 0010 105 + 7 RI GHT 28 1 PB4 0010 107 + 55 RI GHT 40 1 SB3 0010 105 + 7 RI GHT 29 1 PB5 0010 107 + 55 RI GHT 40 1 B4 0010 104 + 92 LEFT 20 1 PB6 LET 1 LET LET 1 LET | | | | 653.0164 Pull Boxe Non-Conduct 24x42-Lnc | ti ve ch | | | | | | | | | 654.0101 65 Concrete Co Bases | oncrete Con | | rete es | |

3

Poles, Arms & Equipment

| | 0010 0010 0010 | 106 + 37 105 + 99 107 + 12 | LEFT | 56 60 85 | 1 | 1 | 1 | 1 | 1 | 1 1 1 | 1 | | | | | | 2 2 2 | 1 | | | 1 1 1 | SB1 SB2 SB3 |
|---|----------------------|----------------------------------|----------------|----------------|---|---|---|---|---|-------------|---|---|---|---|---|---|-------------|---|---|---|-------------|-------------------|
| 3 | 0010 0010 0010 | 107 + 55 104 + 86 107 + 32 | RI GHT LEFT | 40 19 35 | · | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 2 | SB4 LB1 SB5 |
| | | | | | | | | | | | | | | | | | | | | I | | \perp |

Signal Wire

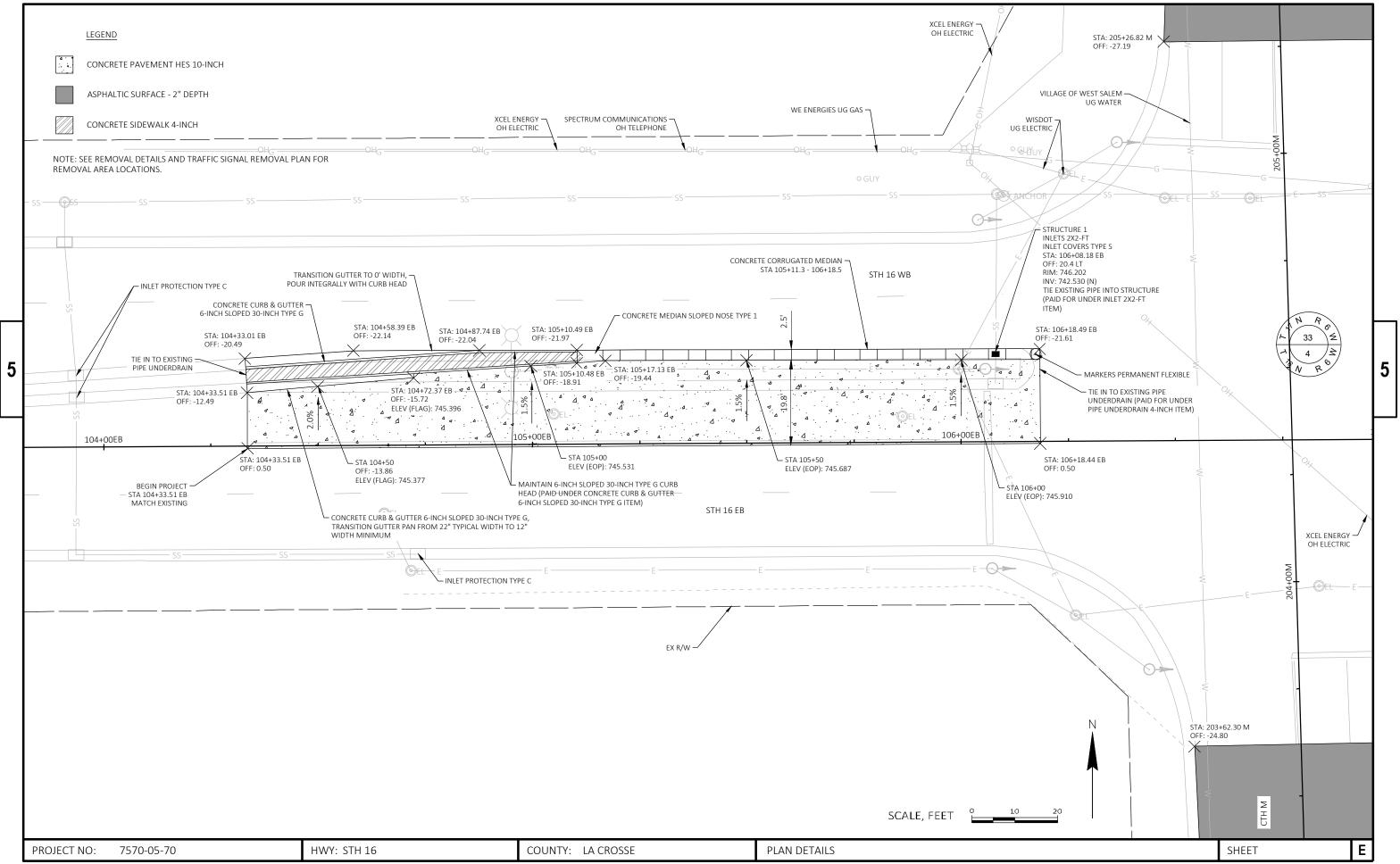
| FILE NAME : | PLOT DATE | E: | | PLOT BY | : | PLOT | NAME : | <u></u> | ORG DATE : |
|--|--|--|---|---|---|--|--|------------------|--|
| STATE PROJECT NO: 7570-00-70 | HWY: S | STH 16 | | | COUNTY: LA | CROSSE | | MISCEL | LANEOUS QUA |
| Tota | 15 | 688 | 1670 | 889 | 1069 | 900 | 2081 | 410 | |
| Category Stationto Station0010 $106 + 37$ 0010 $105 + 99$ 0010 $107 + 12$ 0010 $107 + 55$ 0010 $107 + 32$ 0010 $107 + 31$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 55$ 0010 $107 + 6EB + 12$ 0010 $107 + 31$ 0010 $107 +$ | LF 15 | LF 124 225 114 225 | LF 47 161 164 306 355 249 242 100 | LF 161 201 100 195 232 | LF 456 513 100 | LF 150 150 150 300 | LF 194 551 535 513 46 242 | LF 161 249 | Description SB1 - Up Pole SB2 - Up Pole SB3 - Up Pole SB4 - Up Pole SB5 - Up Pole Existing SC1 to Existing SC1 to SB4 to SB1 to Existing SC1 to |
| Signal wire | 655.0210 Cable Traffic Signal 3-14 AWG | 655.0230 Cable Traffic Signal 5-14 AWG | Cabl e Traffi c Si gnal | 655.0305 Cabl e Type UF 2-12 AWG | El ectri cal Wi re Traffi c G Si gnal s | 655.0610 Electrical Wire Traffic Lighting 12 AWG | 655.0700 Loop Dectector Lead in Cabl e | Install | |

3

| Existing SB1 | SB101 | | |
|-----------------|-------|------------|-----------|
| Existing SB2 | SB103 | | |
| Existing SB3 | SB106 | | |
| Existing SB4 | SB108 | | |
| Existing | PB122 | | |
| Existing | PB111 | | |
| Existing | PB120 | | |
| Existing | | | |
| SB2 | | Groundi ng | Conductor |
| SB4 | | Groundi ng | Conductor |
| Existing | SC1 | Groundi ng | |
| SB1 | | - | |
| SB2 | | | |
| SB4 | | | |
| SB3 | | | |
| LB1 | | | |
| SB5 | | | |
| Existing | SB108 | | |
| SB5 | | | |
| | | | |

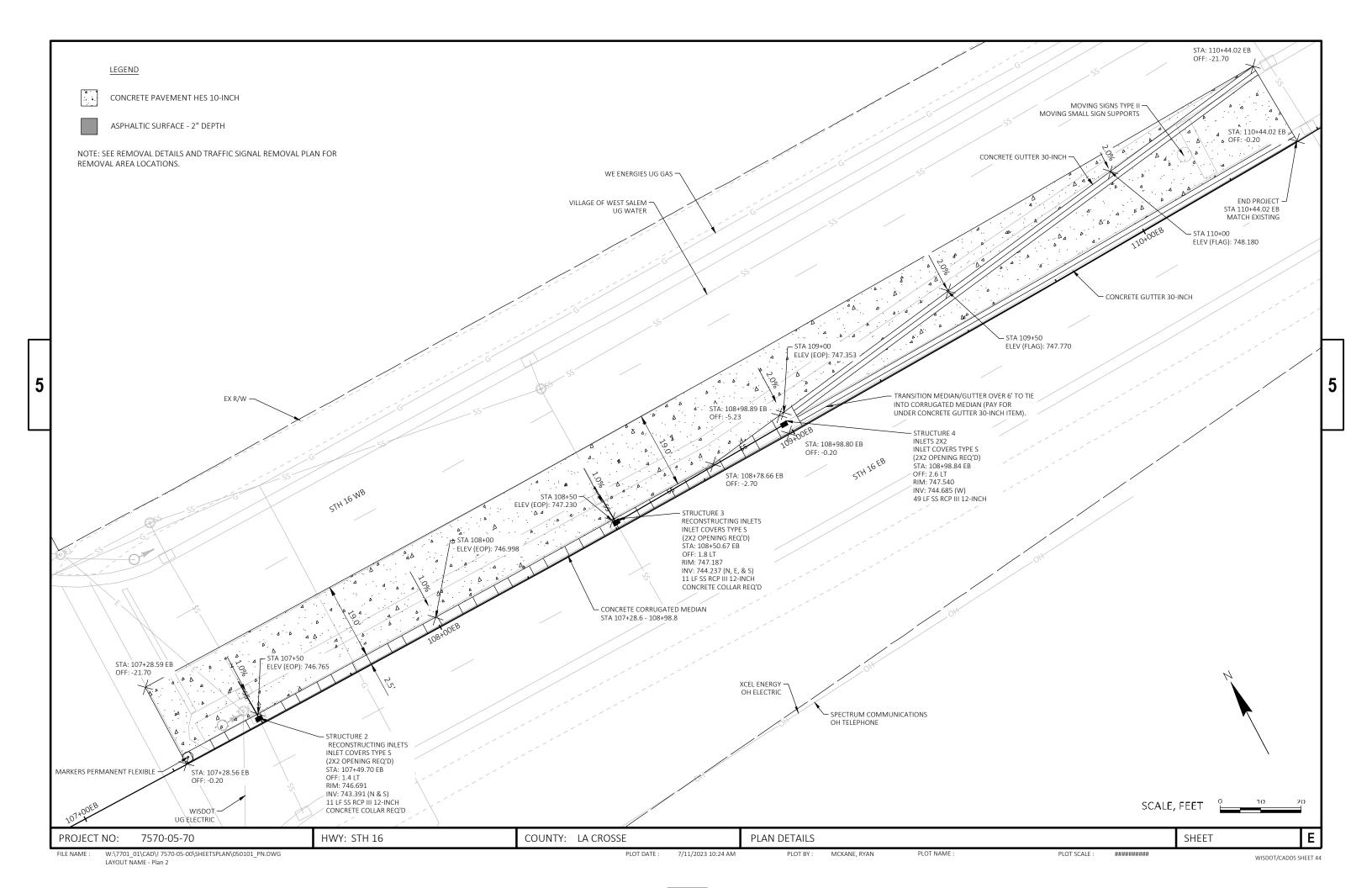
ANTITIES

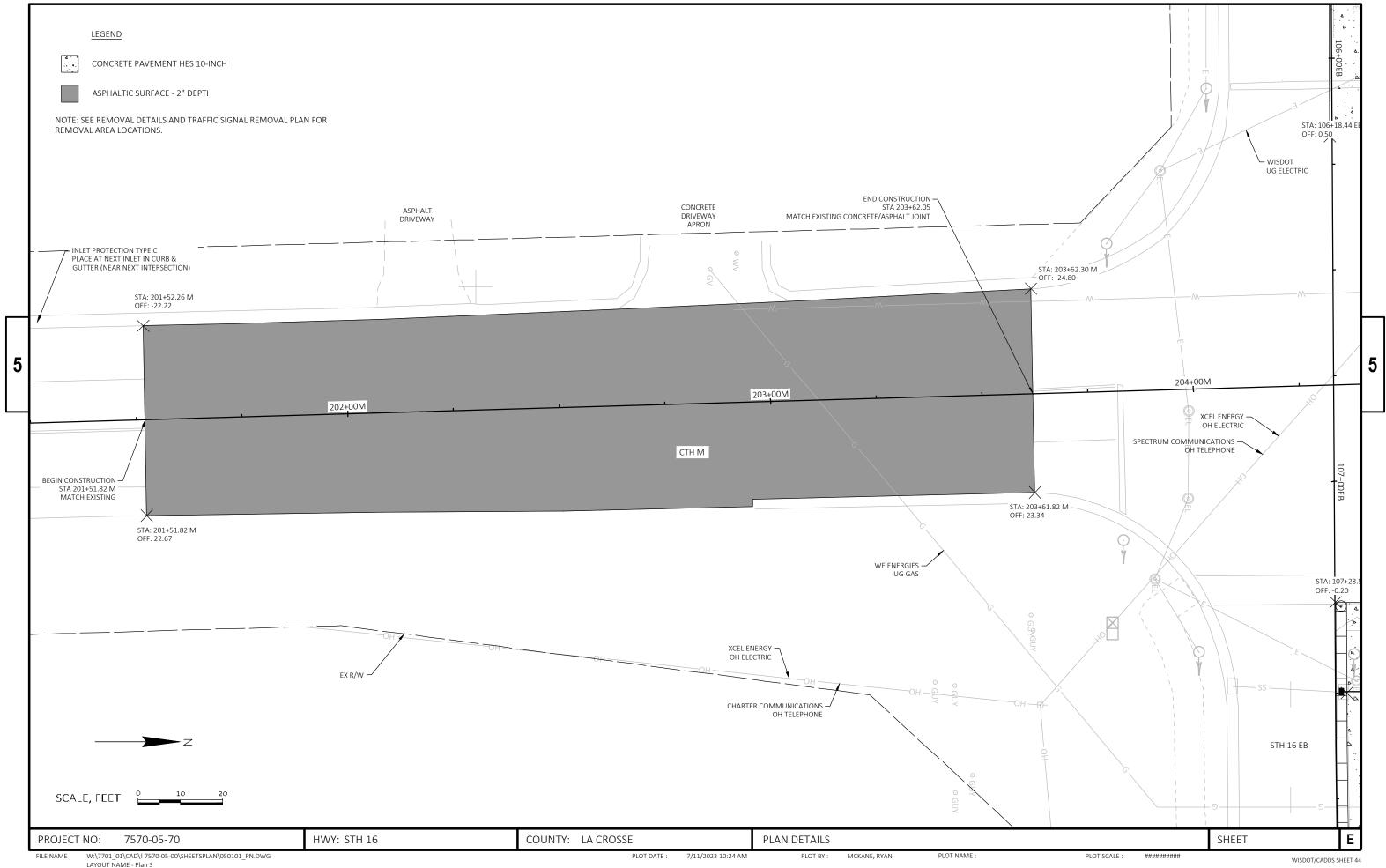
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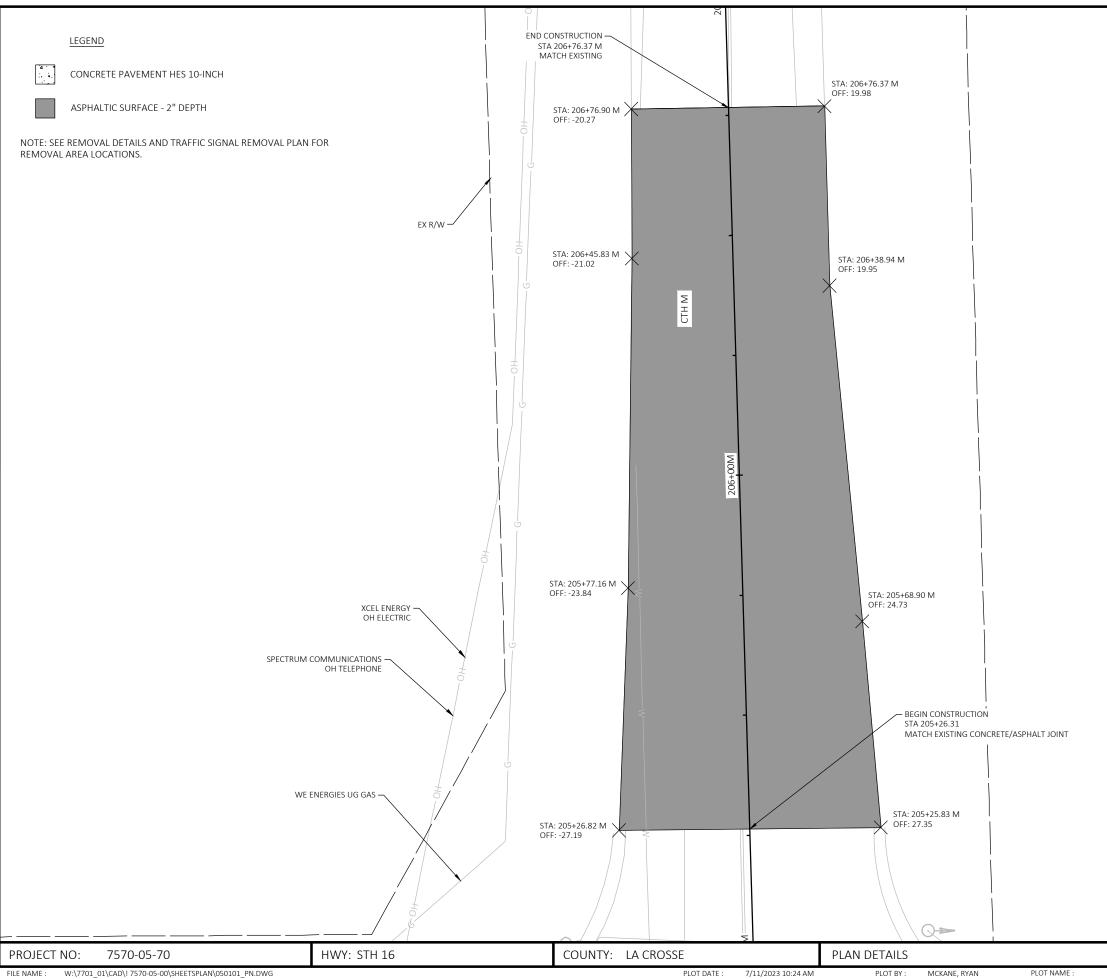


FILE NAME : W:\7701_01\CAD\! 7570-05-00\SHEETSPLAN\050101_PN.DWG LAYOUT NAME - Plan 1 PLOT DATE : 7/11/2023 10:24 AM PLOT BY : MCKANE, RYAN

PLOT NAME :



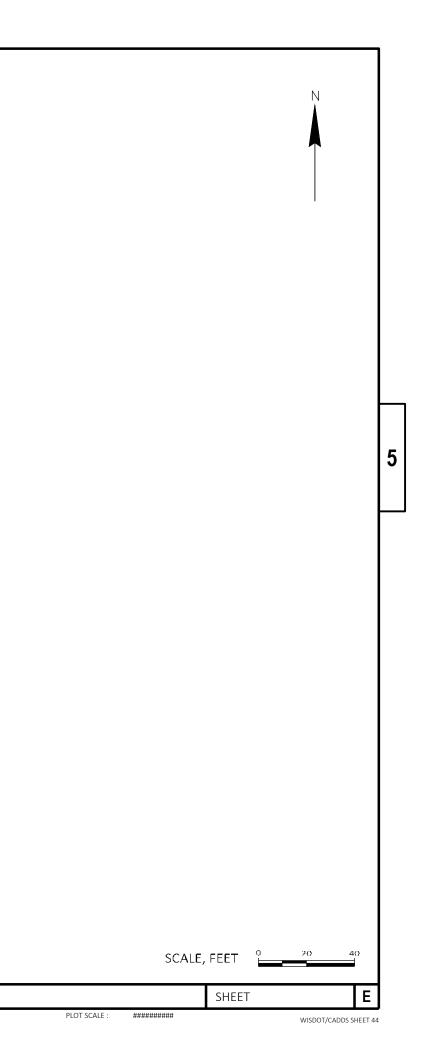




W:\7701_01\CAD\! 7570-05-00\SHEETSPLAN\050101_PN.DWG LAYOUT NAME - Plan 4

5

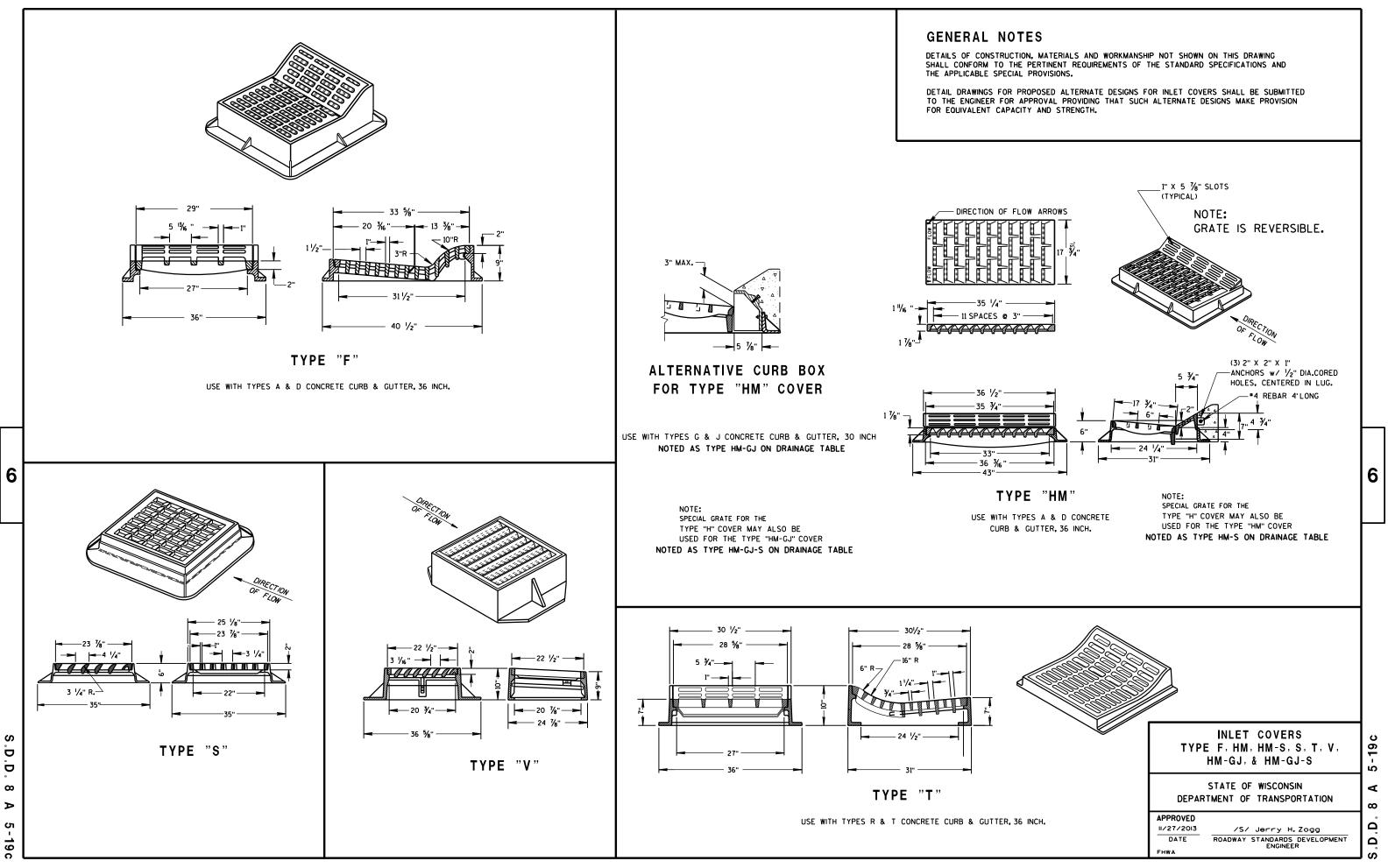
PLOT DATE : 7/11/2023 10:24 AM



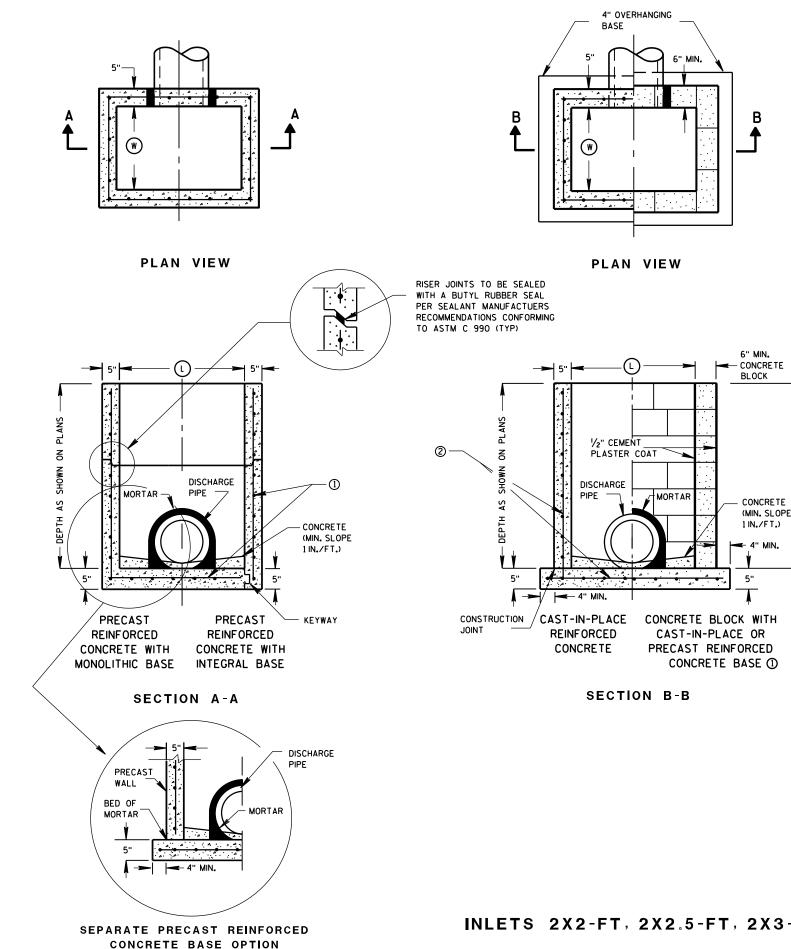
Standard Detail Drawing List

| 08A05-19C | INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S |
|------------------------|---|
| 08C07-02 | INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT |
| 08D01-23A | CONCRETE CURB & GUTTER |
| 08D01-23B | CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS |
| 08E09-06 | SILT FENCE |
| 08E10-02 | INLET PROTECTION TYPE A, B, C AND D |
| 08F04-08 | JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL |
| 09B02-10 | |
| 09B16-02 | PULL BOX NON-CONDUCTIVE |
| 09C02-09 | CONCRETE BASES, TYPES 1, 2, 5, & 6 |
| 09C03-04 09C12-09B | TRANSFORMER/PEDESTAL BASES CONCRETE BASE TYPE 13 |
| 09C12-09B | CONCRETE BASE TYPE 10 SPECIAL |
| 09E01-15D | POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET) |
| 09E01-15G | HARDWARE DETAILS FOR POLE MOUNTINGS |
| 09E03-06 | NON-FREEWAY LIGHTING UNIT POLE WIRING |
| 09E08-09F | TYPE 10 SPECIAL POLE 35' MONOTUBE ARM |
| 09E08-09G | TYPE 10 SPECIAL POLE 40' MONOTUBE ARM |
| 09E08-09H | TYPE 10 SPECIAL POLE 45' MONOTUBE ARM |
| 09E08-09K | GENERAL NOTES, HARDWARE DETAILS FOR TYPE 9/10, 9/10 SPECIAL, 12 & 13 POLES W/MONOTUBE ARMS |
| 09E12-01D | OVER HEIGHT 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 |
| 09F12-04 | LOOP DETECTOR INSTALLED IN EXISTING CONCRETE PAVEMENT |
| 11B01-05 | CONCRETE CORRUGATED MEDIAN |
| 11B02-02 | CONCRETE MEDIAN NOSE |
| 13C01-19 | CONCRETE PAVEMENT LONGITUDI NAL JOI NTS AND TI ES |
| 13C09-17A | CONCRETE PAVEMENT REPAIR AND REPLACEMENT |
| 13C09-17B | CONCRETE PAVEMENT REPAIR AND REPLACEMENT |
| 13C09-17C | CONCRETE PAVEMENT REPAIR AND REPLACEMENT |
| 13C13-11 13C18-08A | URBAN DOWELED CONCRETE PAVEMENT CONCRETE PAVEMENT JOINTING |
| 13C18-08B | CONCRETE PAVEMENT SUTNITING |
| 13C18-08C | CONCRETE PAVEMENT JOINT TYPES |
| 13C18-08D | CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES |
| 15A03-02A | FLEXIBLE MARKER POST FOR CULVERT END |
| 15A03-02B | FLEXIBLE MARKER POST FOR CULVERT END |
| 15A04-07D | CHANNELI ZI NG DEVI CES, PERMANENT FLEXI BLE TUBULAR MARKER POST |
| 15C02-09F | ADVANCED WIDTH RESTRICTION SIGNING |
| 15CO4-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFF |
| 15C08-23A | PERMANENT LONGITUDINAL PAVEMENT MARKINGS |
| 15C08-23B | TEMPORARY LONGITUDINAL PAVEMENT MARKING |
| 15C08-23C | PAVEMENT MARKING (TURN LANES) |
| 15C08-23D | PAVEMENT MARKING (TURN LANES) |
| 15C11-10B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15C12-09A 15C18-08A | TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION MEDIAN ISLAND MARKING PAVEMENT MARKINGS |
| 15C18-08B | MEDIAN ISLAND MARKING PAVEMENT MARKINGS MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE |
| 15C19-08A | MOVING PAVEMENT MARKING MEDIAN ISLAND NOSE |
| 15C19-08B | MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY |
| 15C19-08C | MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY |
| 15D20-07A | TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY |
| 15D20-07B | TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY |
| 15D20-07C | TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY |
| 15D30-09A | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09B | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09C | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09D | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09E | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09F | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09G | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09H 15D30-09I | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09J | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-095 15D30-09K | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D30-09L | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION |
| 15D44-02 | TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES |
| | |

NDIVIDED ROAD OPEN TO TRAFFIC



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ENGINEER.

EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

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 RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

| INLET SIZE | | INLET COVER TYPE | ALL A'S | AL |
|---------------|---------------|---------------------|---------|----|
| | WIDTH (W)(FT) | LENGTH () (FT) | | |
| 2X2-FT | 2 | 2 | х | |
| 2X2.5-FT | 2 | 2.5 | | |
| 2X3-FT | 2 | 3 | | |
| 2.5X3-FT | 2.5 | 3 | | |

PIPE MATRIX

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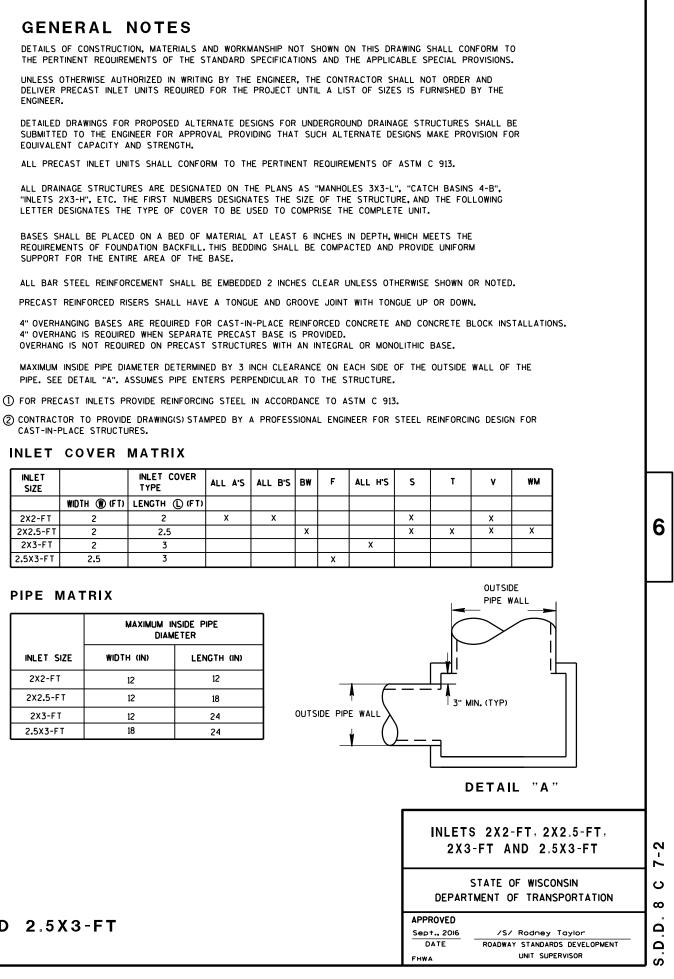
| | MAXIMUM INSIDE PIPE DIAMETER | | |
|------------|---------------------------------|-------------|--|
| INLET SIZE | WIDTH (IN) | LENGTH (IN) | |
| 2X2-FT | 12 | 12 | |
| 2X2.5-FT | 12 | 18 | |
| 2X3-FT | 12 | 24 | |
| 2.5X3-FT | 18 | 24 | |

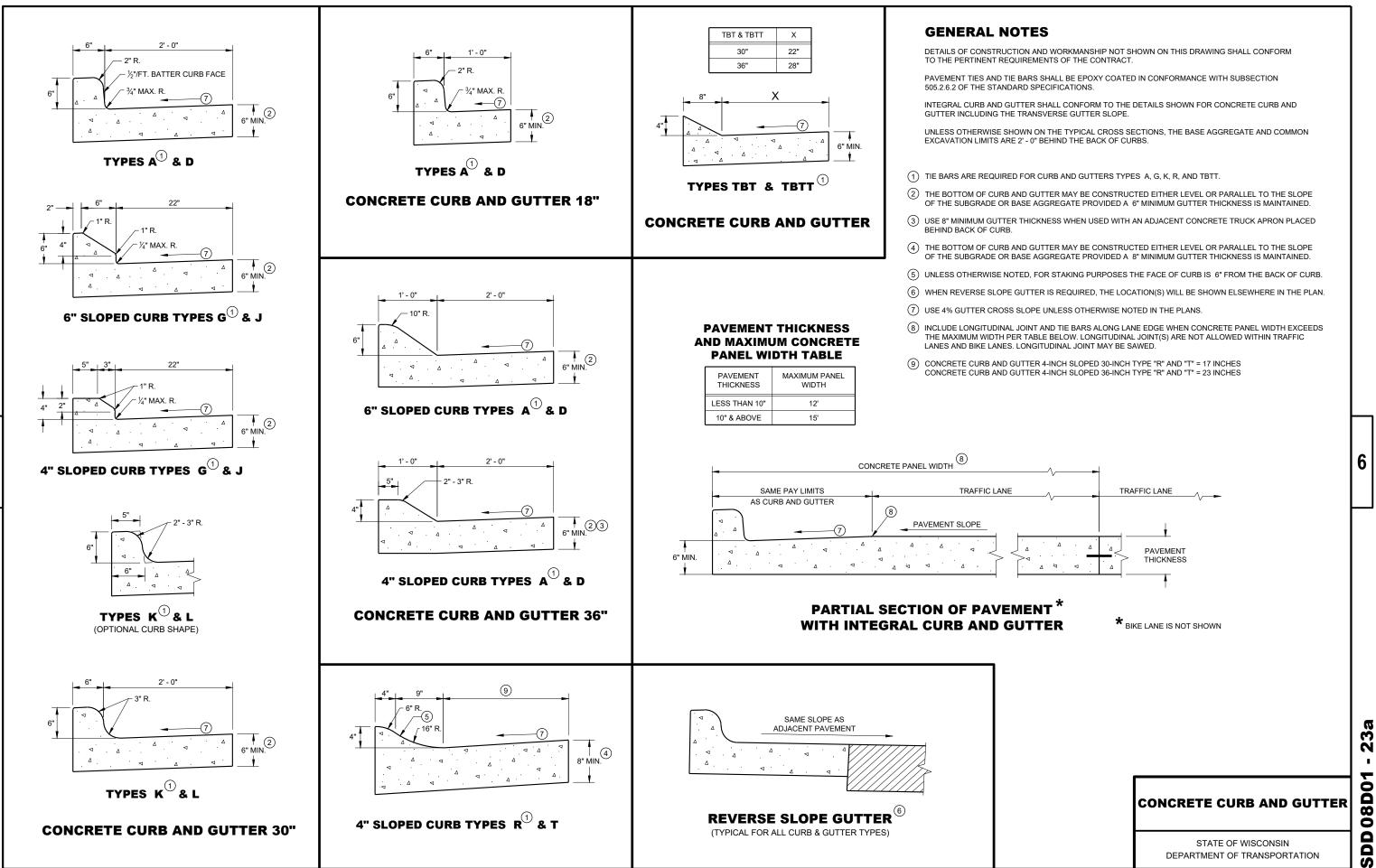
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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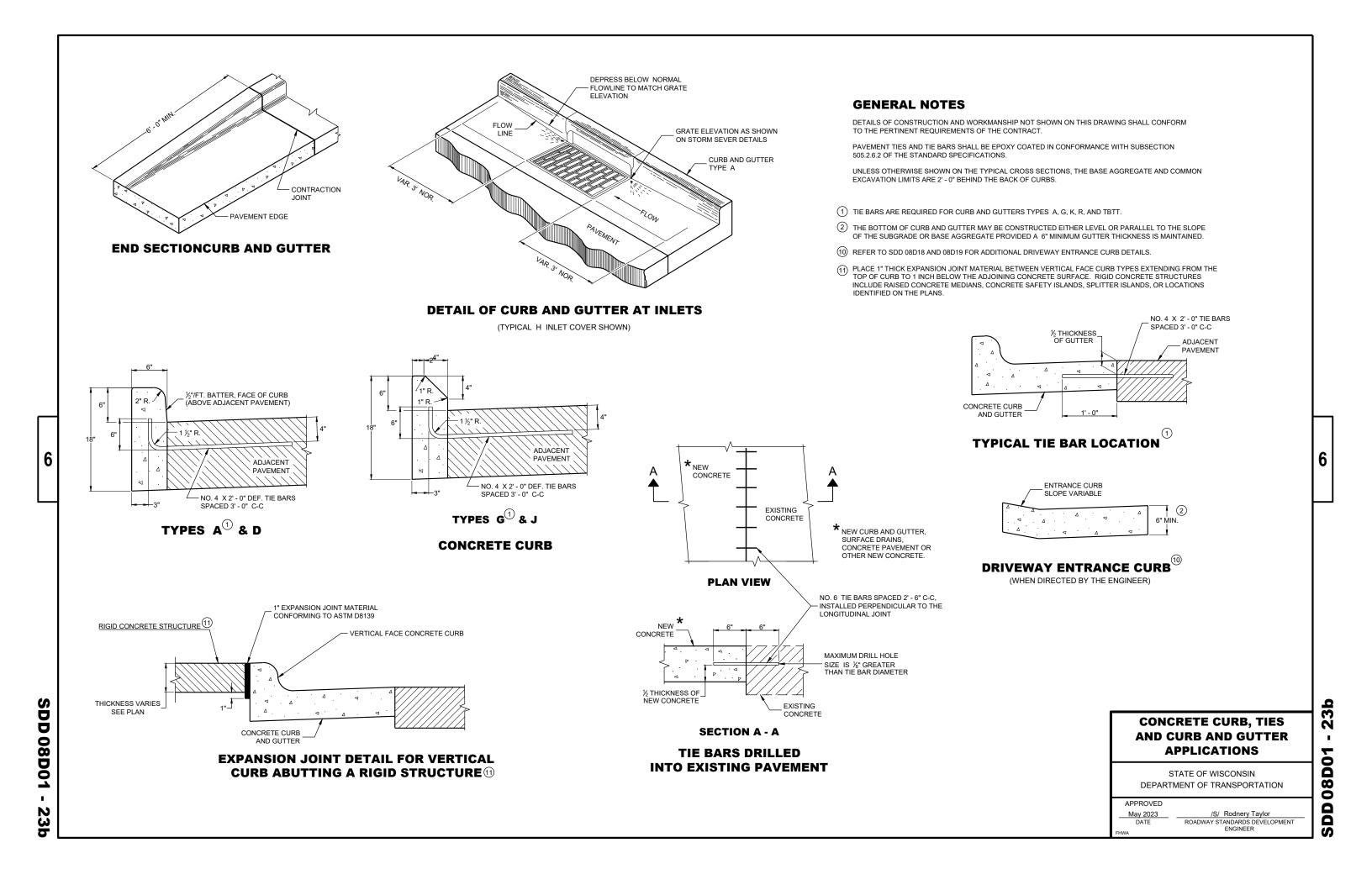


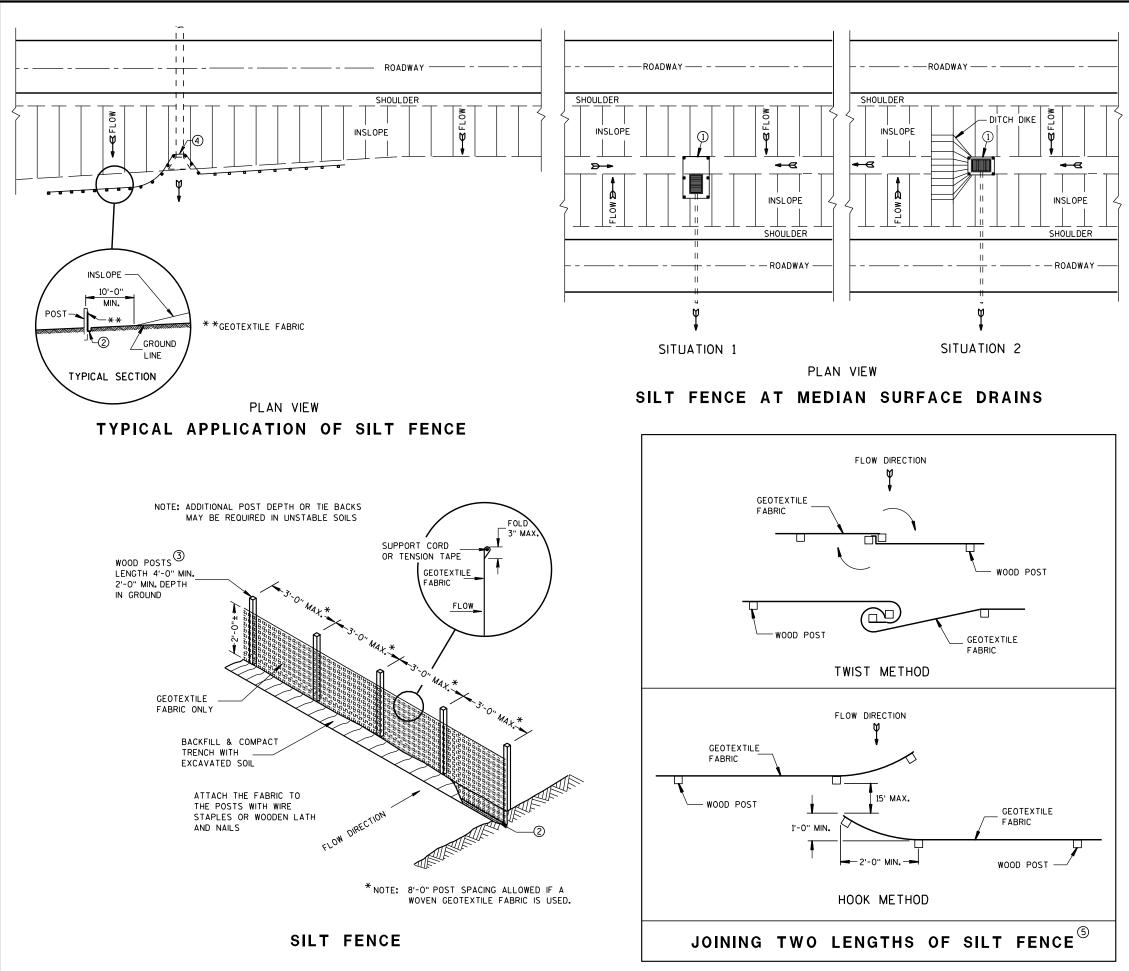


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DEPARTMENT OF TRANSPORTATION





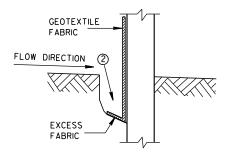
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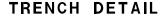
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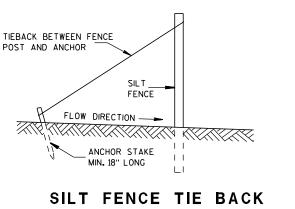
GENERAL NOTES

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

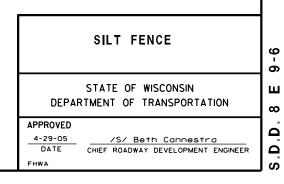
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF $1/_8$ " X $1/_8$ " OF OAK OR HICKORY.
- (4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

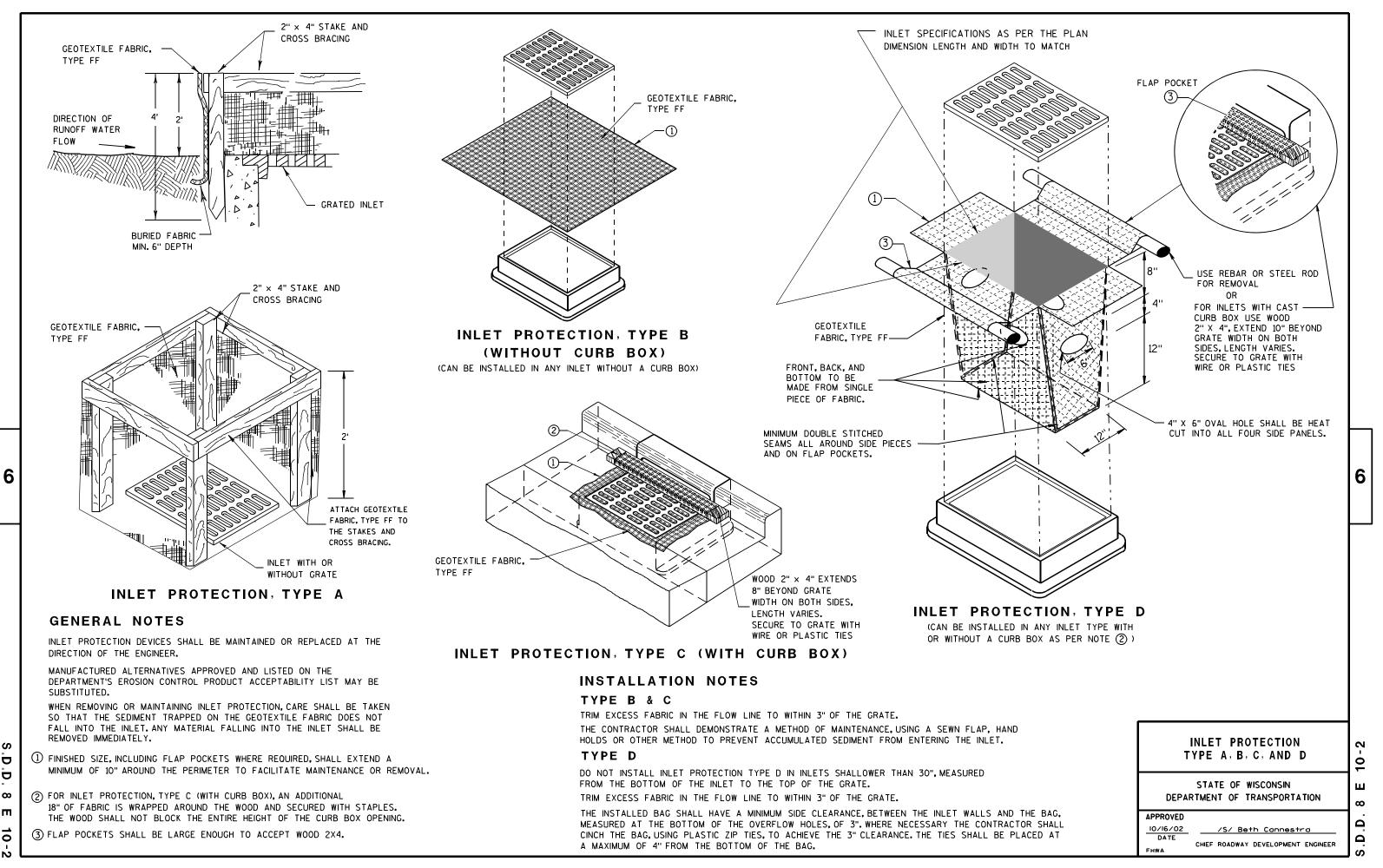




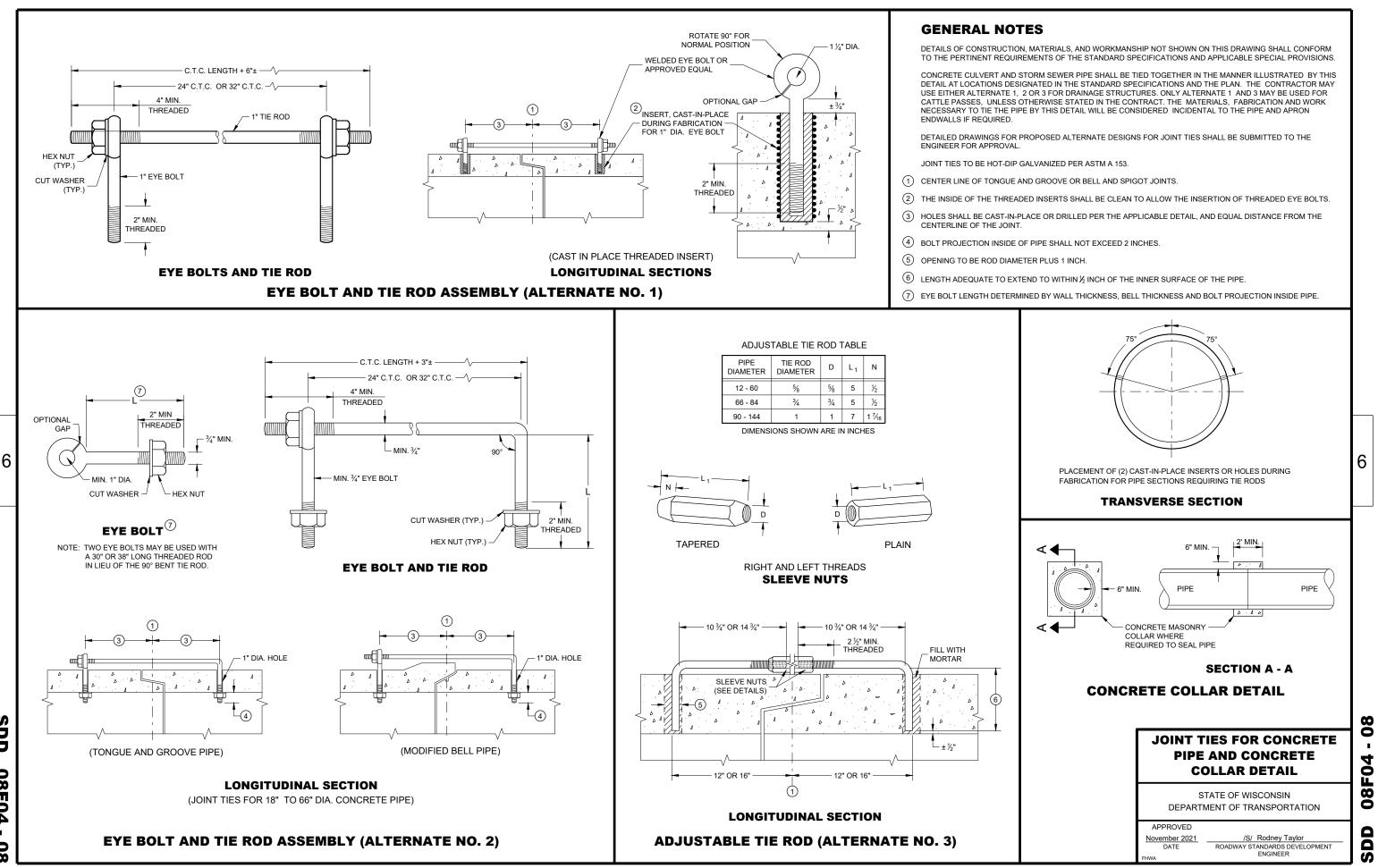


(WHEN REQUIRED BY THE ENGINEER)





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METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

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.

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.

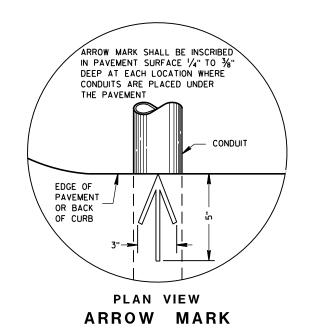
CONDUIT. (SEE NEC 347.5)

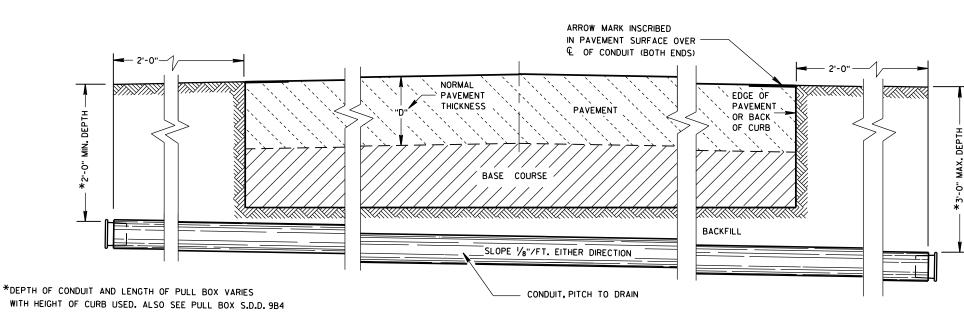
WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

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.).

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.





SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC

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 REIN-STALLED 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

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

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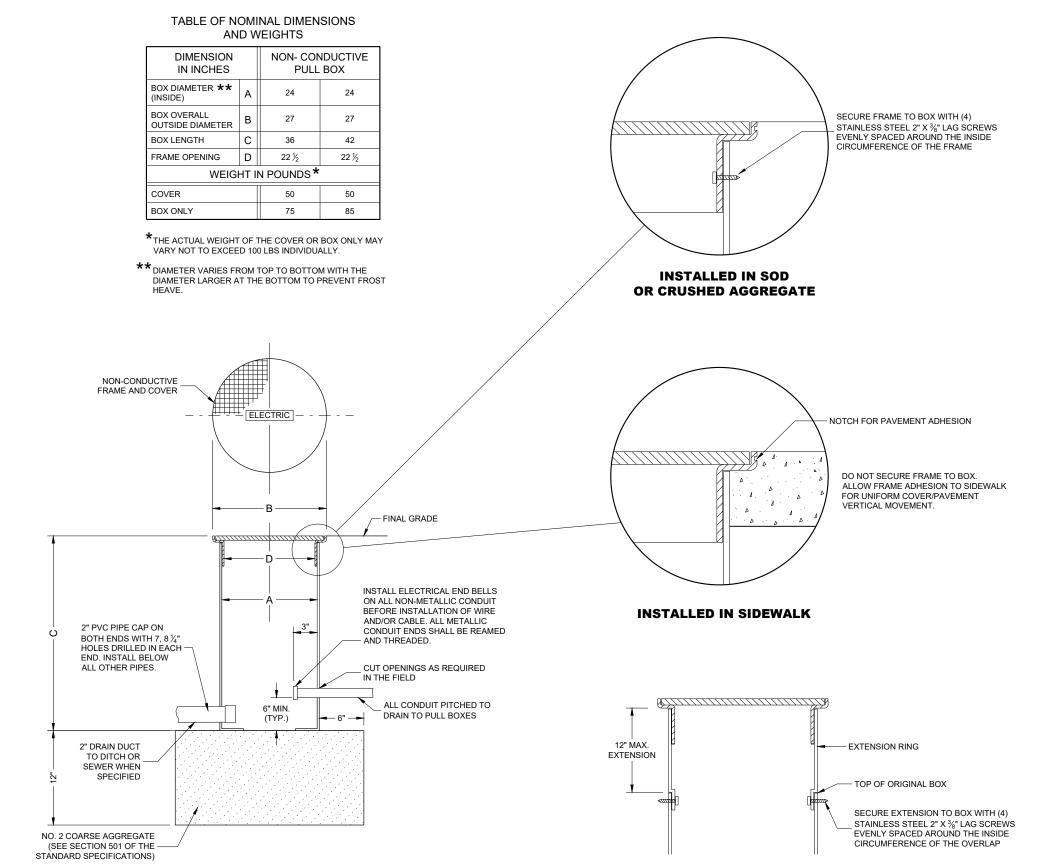
CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March, 2017 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

FHWA



NON-CONDUCTIVE PULL BOX

BOX EXTENSION

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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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 $\frac{1}{4}$ ".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

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.

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

GENERAL NOTES

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

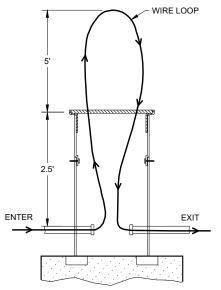
PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN ¹/₂" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN $\frac{1}{4}$ ".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2022 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER 6

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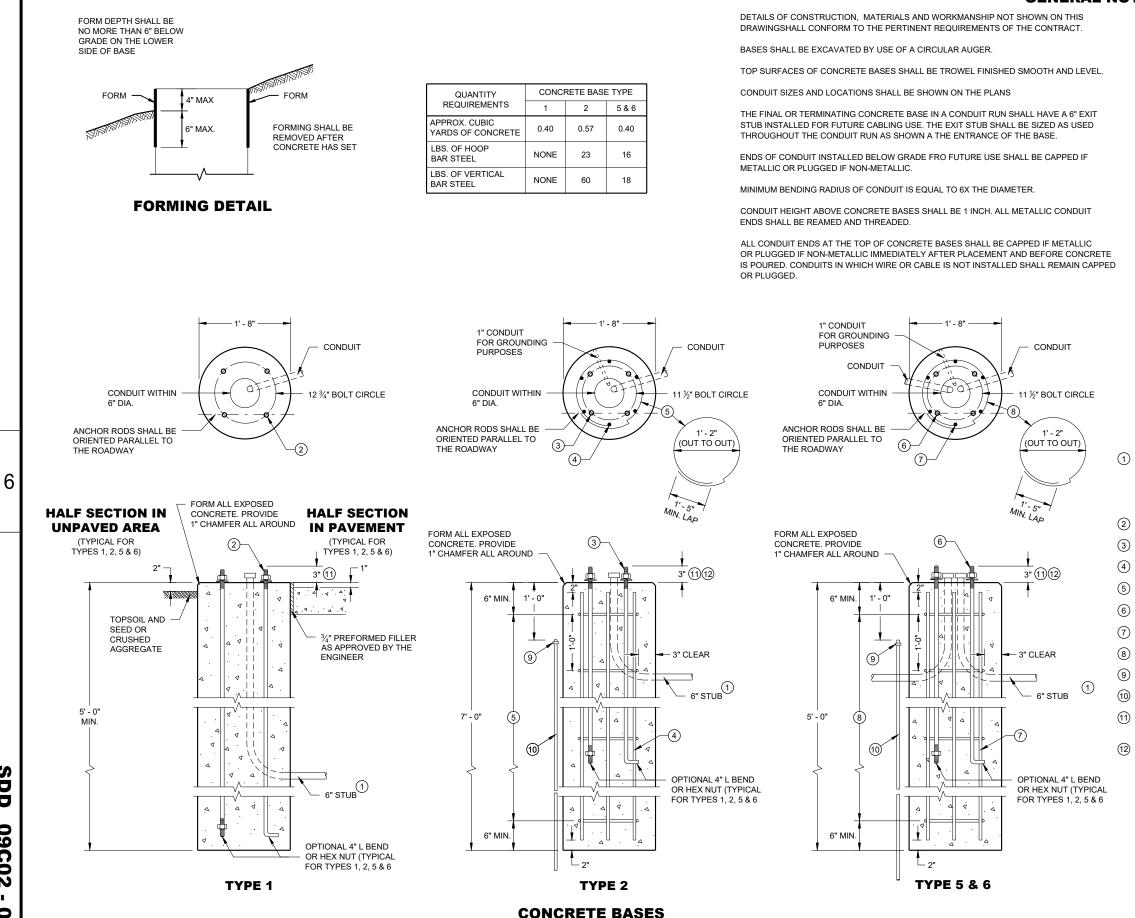
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BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION

WHEN REQUIRED TO CONNECT NON-METALLIC 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 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES 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 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND 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).

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 OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(4) 1" DIA. X 5' - 0" ANCHOR RODS.

(6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(4) 1" DIA. X 3' - 6" ANCHOR RODS.

(6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

(10) 5/8" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/7 OR LONGER THAN 3 1/7 SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

(12) FOR NON - BREAKAWAY INSTALLATIONS, $4\frac{1}{2}$ " ± 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 May 2019 DATE

/S/ Ahmet Demirbile STATE ELECTRICAL ENGINEER 6

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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 I" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 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 $\frac{1}{4}$ " - 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 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

1'-1" NOMINAL

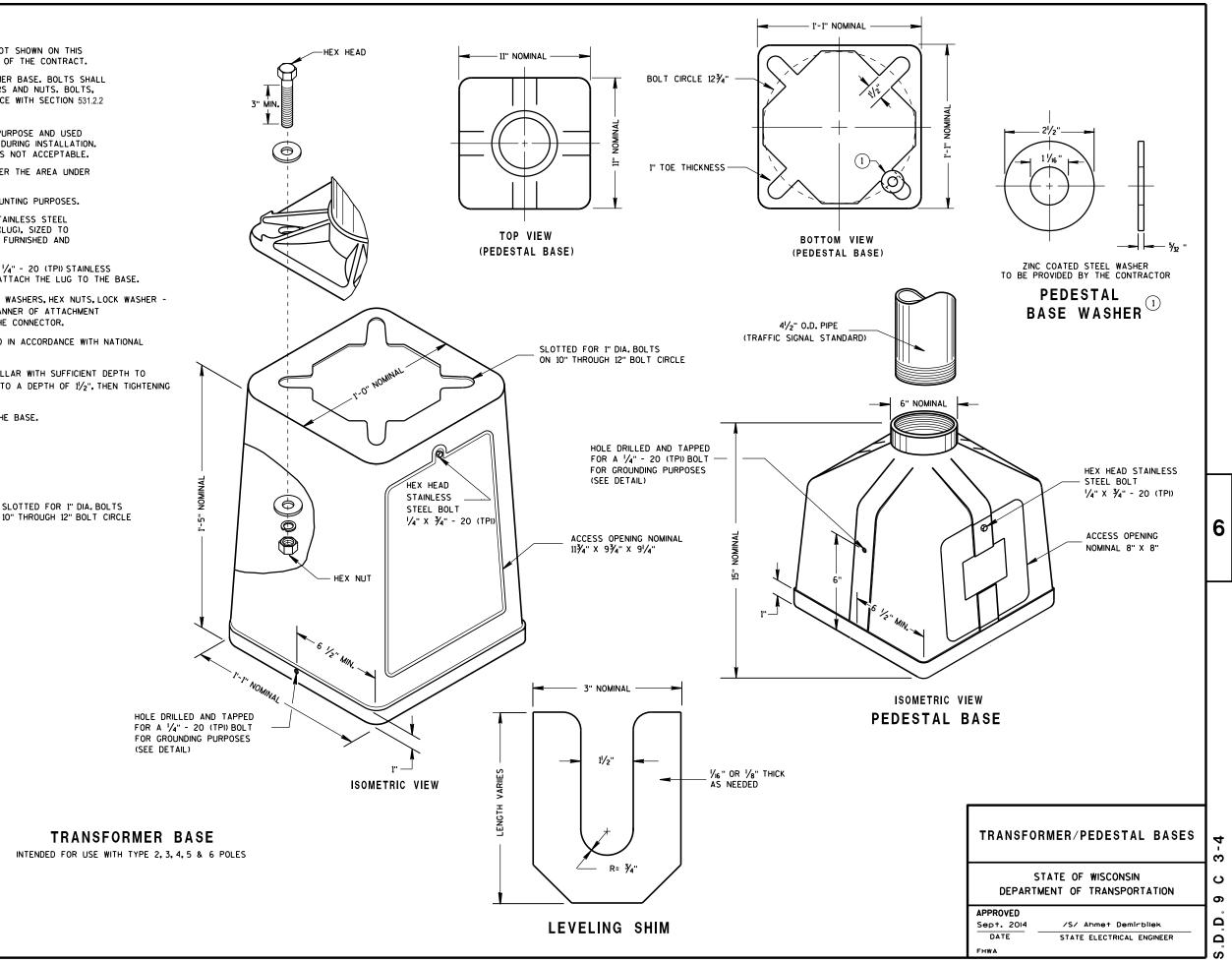
BOTTOM VIEW

TYPICAL MECHANICAL

CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

(TRANSFORMER BASE)

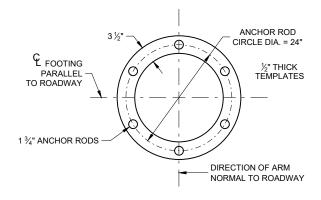


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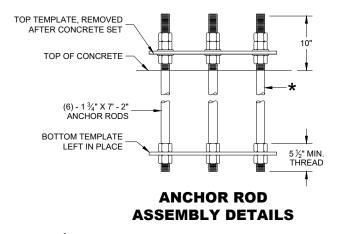
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TOP

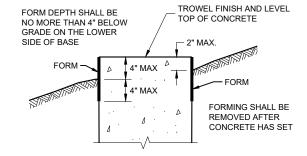
BOTTOM



TOP AND BOTTOM TEMPLATE



★ THREAD TOP 11" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.



FORMING DETAIL

CONCRETE BASE TYPE 13

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

May 2017 DATE /S/ Ahmet Demirbilek WIND LOADED STRUCTURES PROGRAM LEADER

FHWA

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BÉCAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC 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 NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. 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.

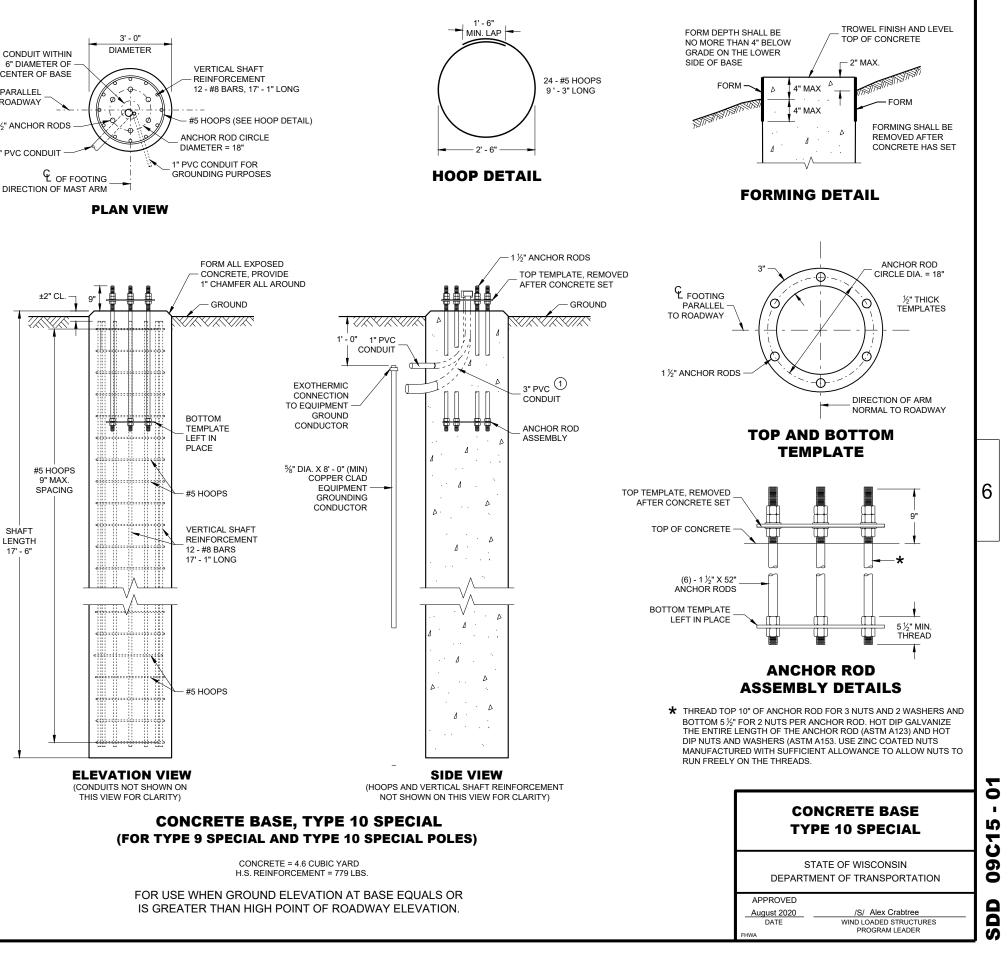
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

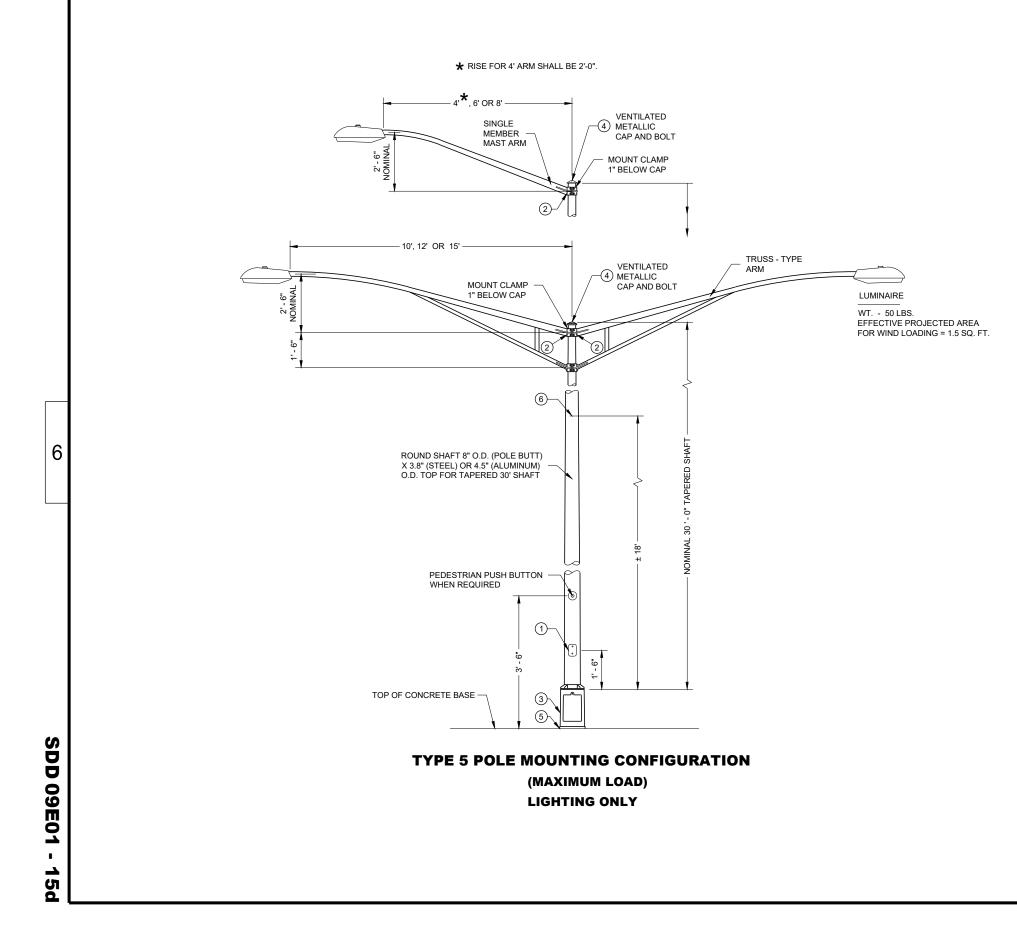
1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

| 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 | fy = 55,000 p.s.i. |
| WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION) | |
| TEMPLATES, ASTM A709, GRADE 36 | fy = 36,000 p.s.i. |

3' - 0" DIAMETER CONDUIT WITHIN 6" DIAMETER OF VERTICAL SHAFT CENTER OF BASE REINFORCEMENT 24 - #5 HOOPS 12 - #8 BARS 17' - 1" LONG ♀ FOOTING PARALLEL - O 9 ' - 3" LONG 0Xi TO ROADWAY #5 HOOPS (SEE HOOP DETAIL) 8 (6) 1 ½" ANCHOR RODS ANCHOR ROD CIRCLE DIAMETER = 18" - 2' - 6" (1) 3" PVC CONDUIT 1" PVC CONDUIT FOR

PLAN VIEW





THE POLE IS NOT ACCEPTABLE.

BASE.

STEEL, HEX HEAD BOLTS.

TRUSS - TYPE ARM

VERTICAL CLAMP GAP SHALL BE EQUAL ON BOTH SIDE OF POLE

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING. 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 TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888". TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196"). THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 % Inches in outside diameter. The straight portion of the slipfitter end of the luminaire mast arm shall BE A NOMINAL 12 INCHES IN LENGTH. WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER 1 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS (2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 %" 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) 1/4" X 1/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT. (5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE. 6 INTERNAL DUMBBELL - TYPE VIBRATION DAMPER. -(4) VENTILATED METALLIC CAP AND BOLT SINGLE MEMBER 6 MAST ARM BACKSIDE AND FRONTSIDE CLAMPS SHALL ALLOW TYPICAL INTERCHANGEABLE MOUNTING AS SHOWN **INTERCHANGEABLE MOUNTING DETAIL** ١Ņ ~ . ~

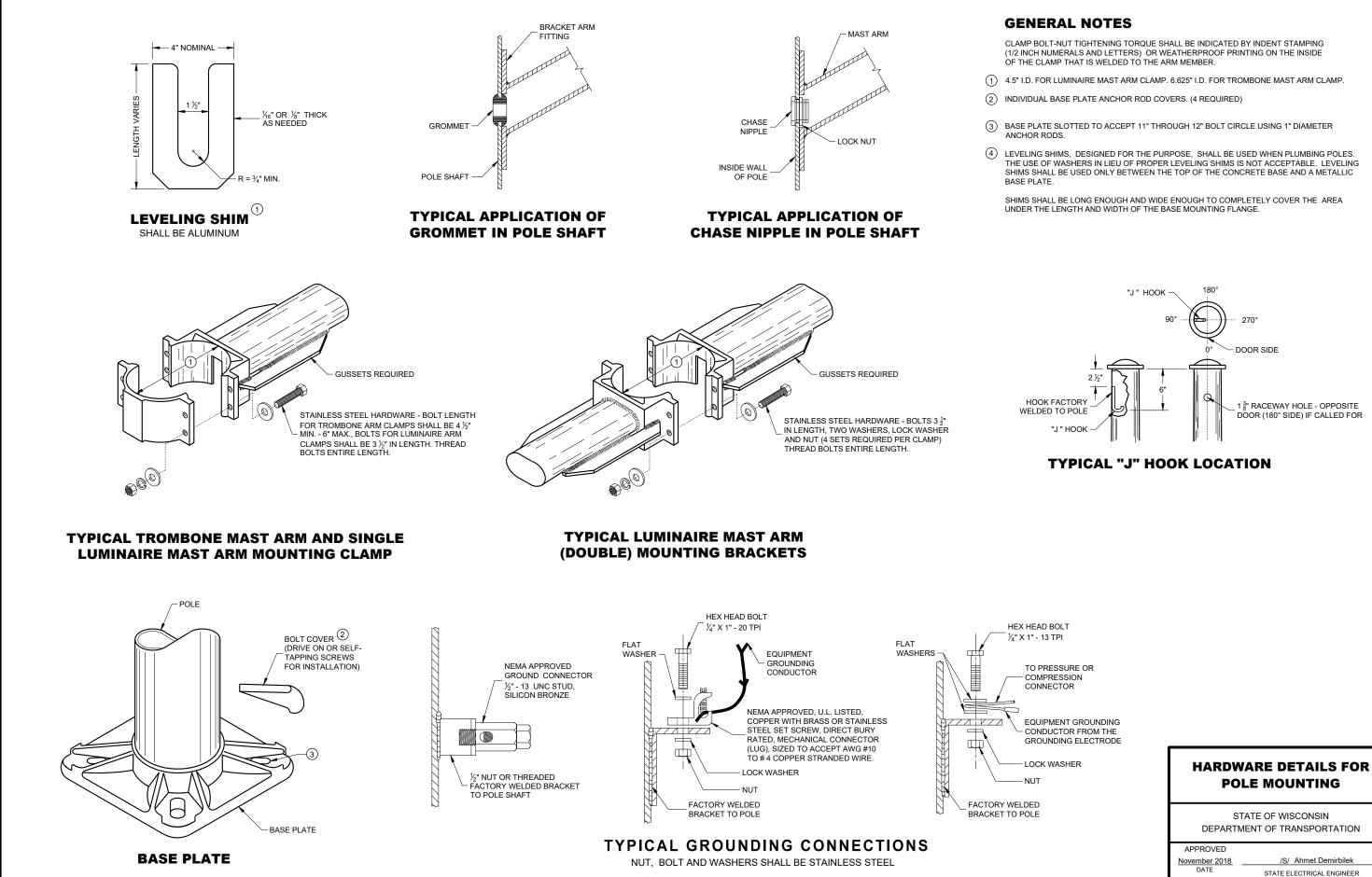
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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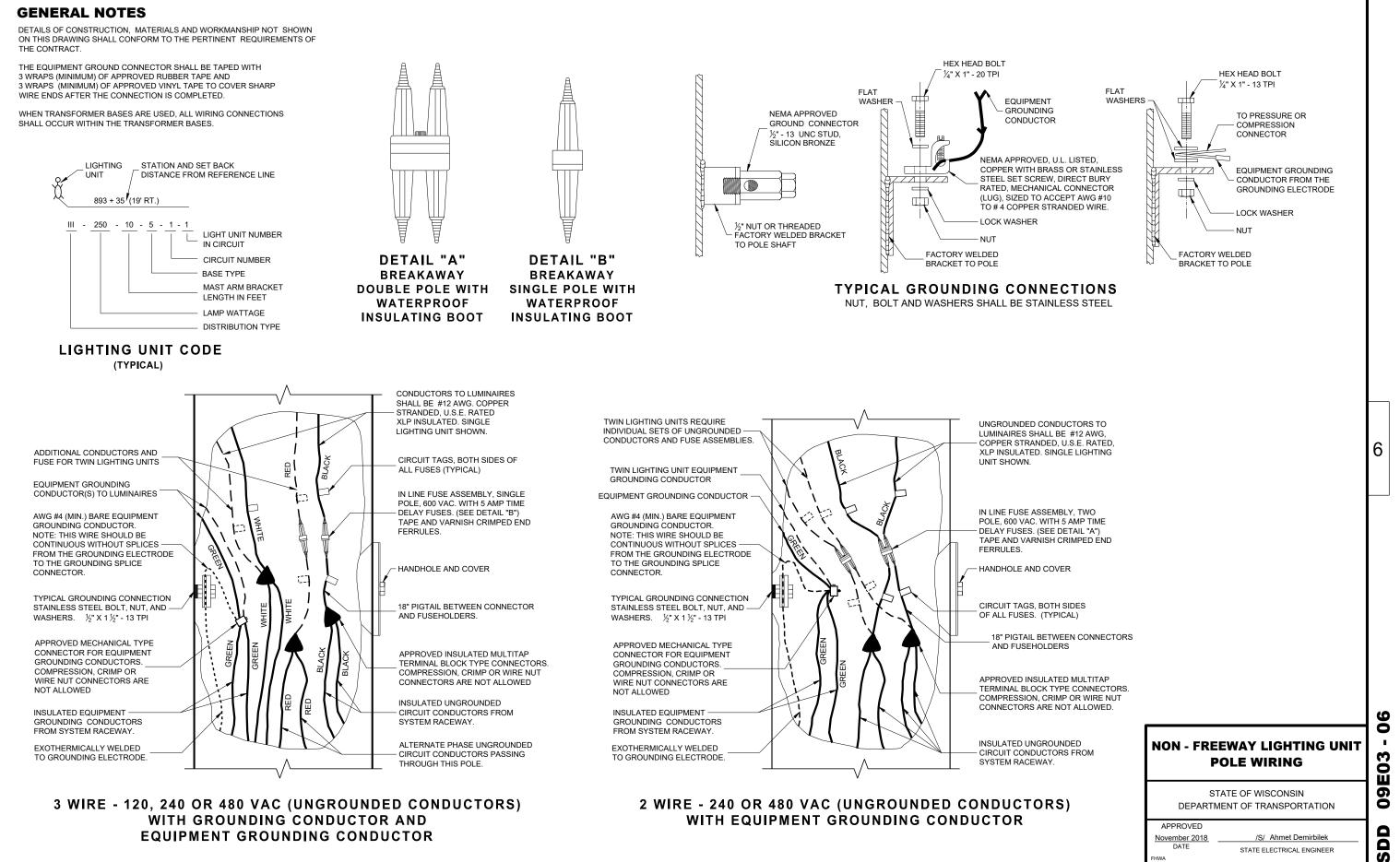
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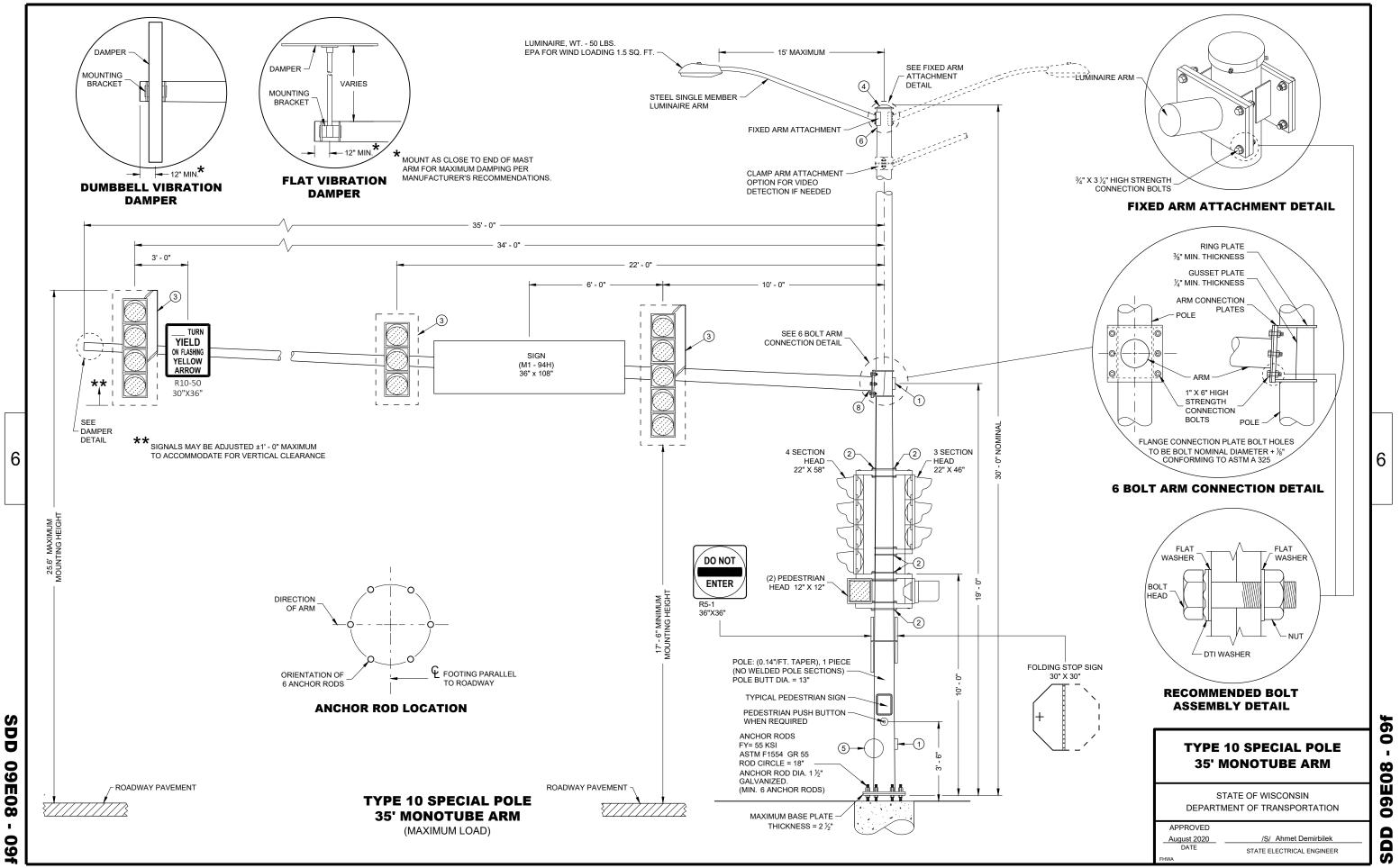
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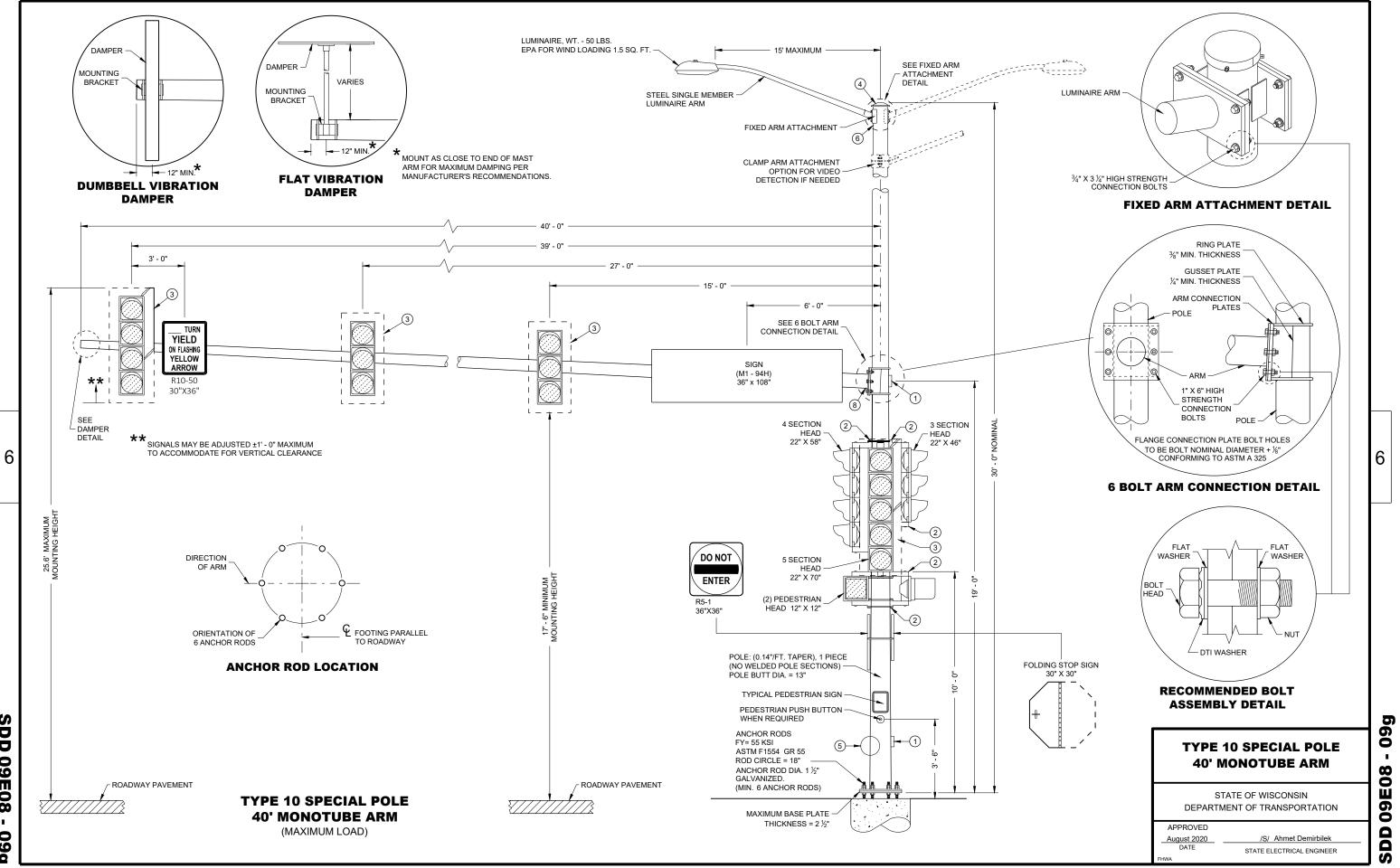


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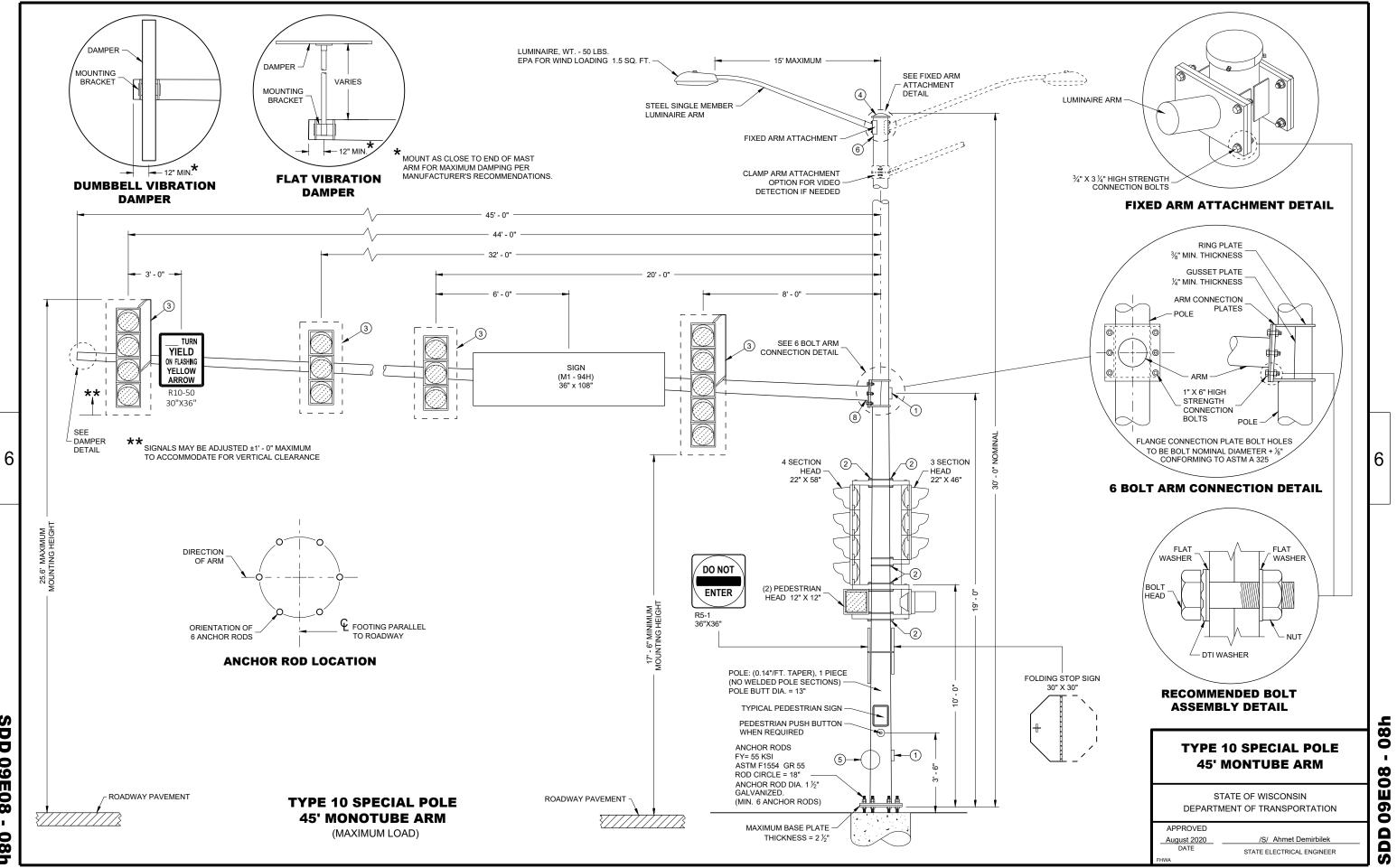
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SDD 09E08 08h

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION 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 INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES 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 TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL 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 A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL MOUNT ALL LIKE HEAD AT SAME ELEVATION

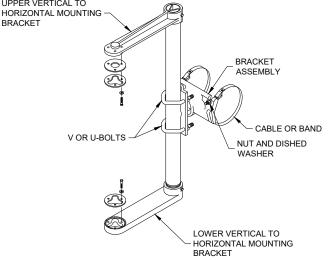
SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

- (1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO X" X X" 20 TPI STAINLESS STEEL HEX HEAD BOLTS
- SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION 2 SECTION 658).
- 3 SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS
- 4 THE TOP OF THE POLE SHAFT AND 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 HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR 1/2" X 1/2" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.
- 6 FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE
- $\overline{(7)}$ INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

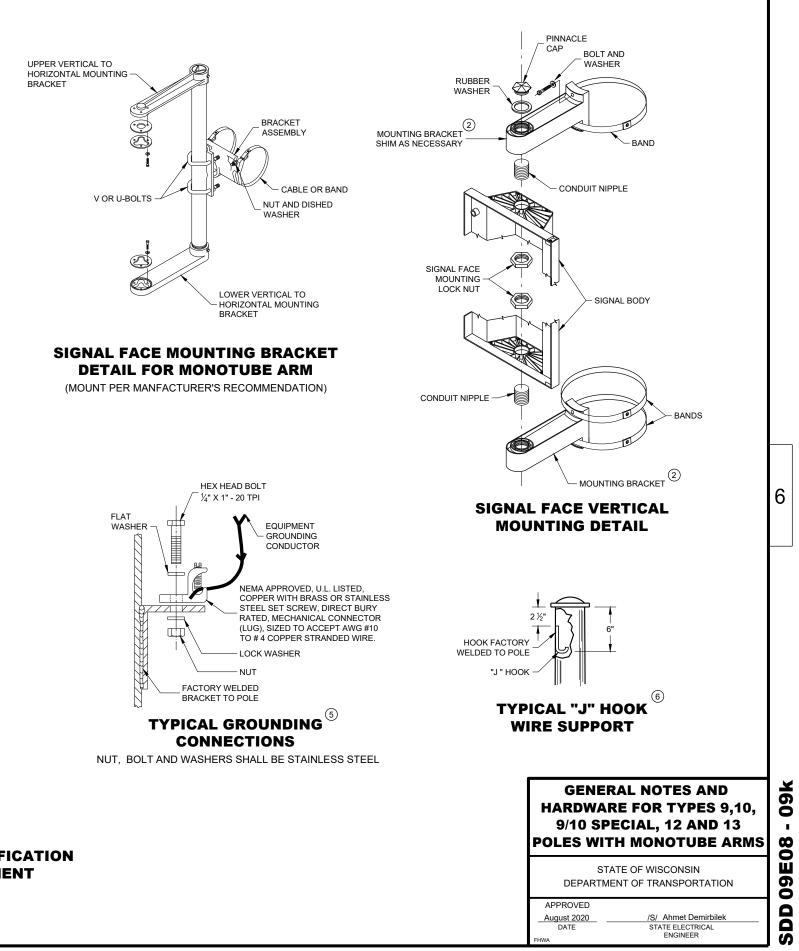
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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



DETAIL FOR MONOTUBE ARM

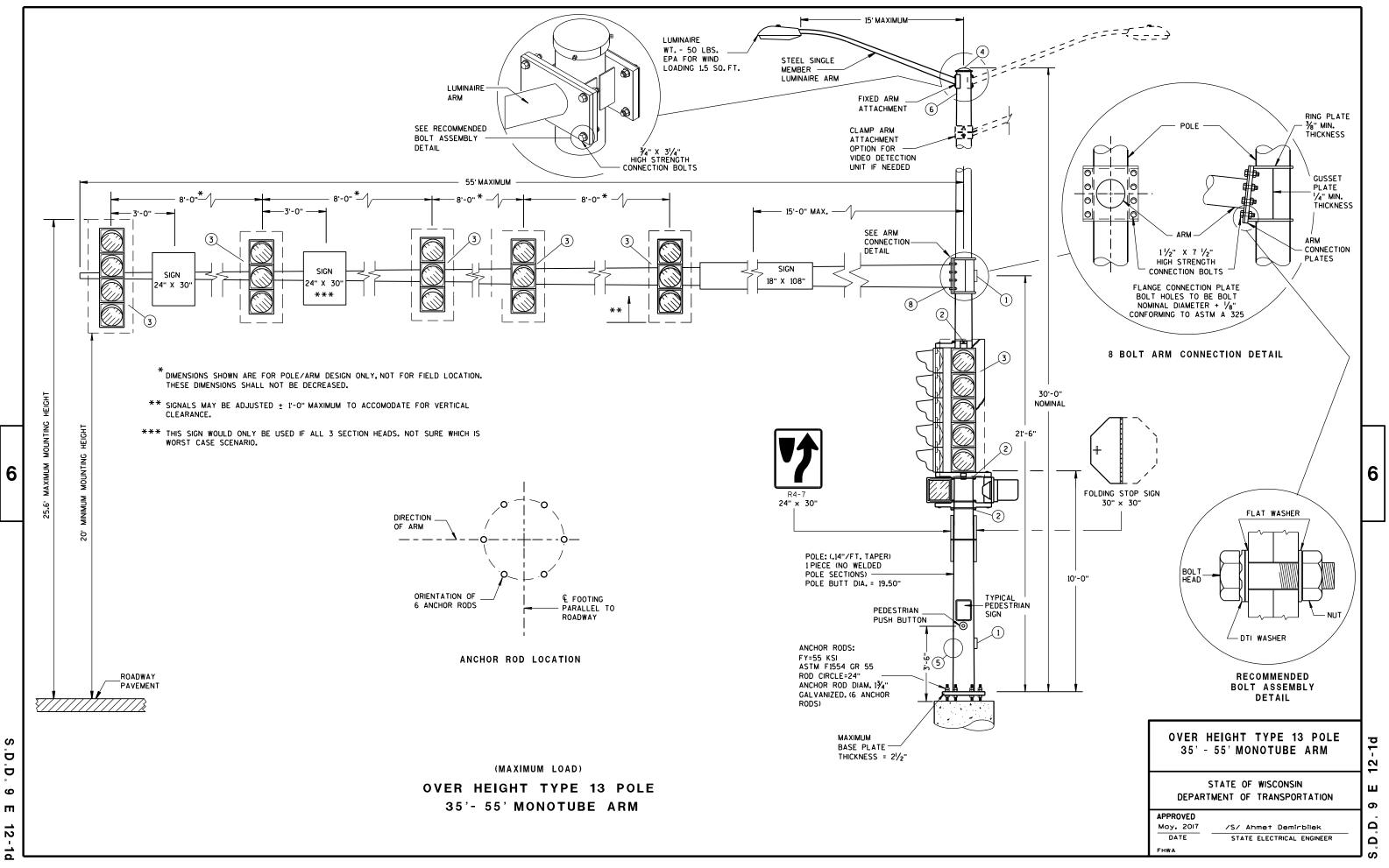


STRUCTURAL IDENTIFICATION **PLAQUE PLACEMENT**

6' - 0"

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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 I 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 I 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 $\frac{3}{4}$ " S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL 1/2" 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.

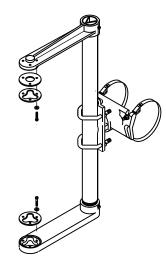
SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

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- (1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO 1/4" X 3/4" 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 1/4" X 1/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.
- (6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.
- (7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

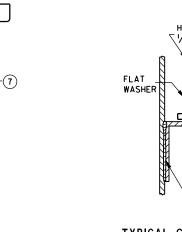
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

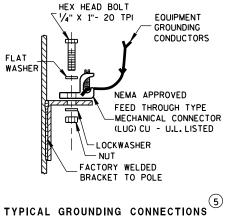
MOUNTING HEIGHT SHALL BE 6'-O" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED $\frac{1}{2}$ " DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.



SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM (MOUNT PER MANUFACTURER'S RECOMMENDATION)





NUT, BOLT AND WASHERS SHALL

BE STAINLESS STEEL

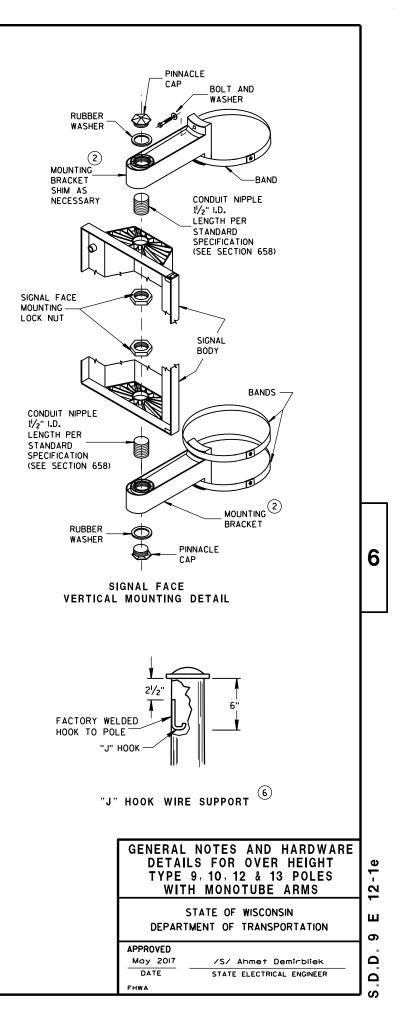
PLAQUE PLACEMENT

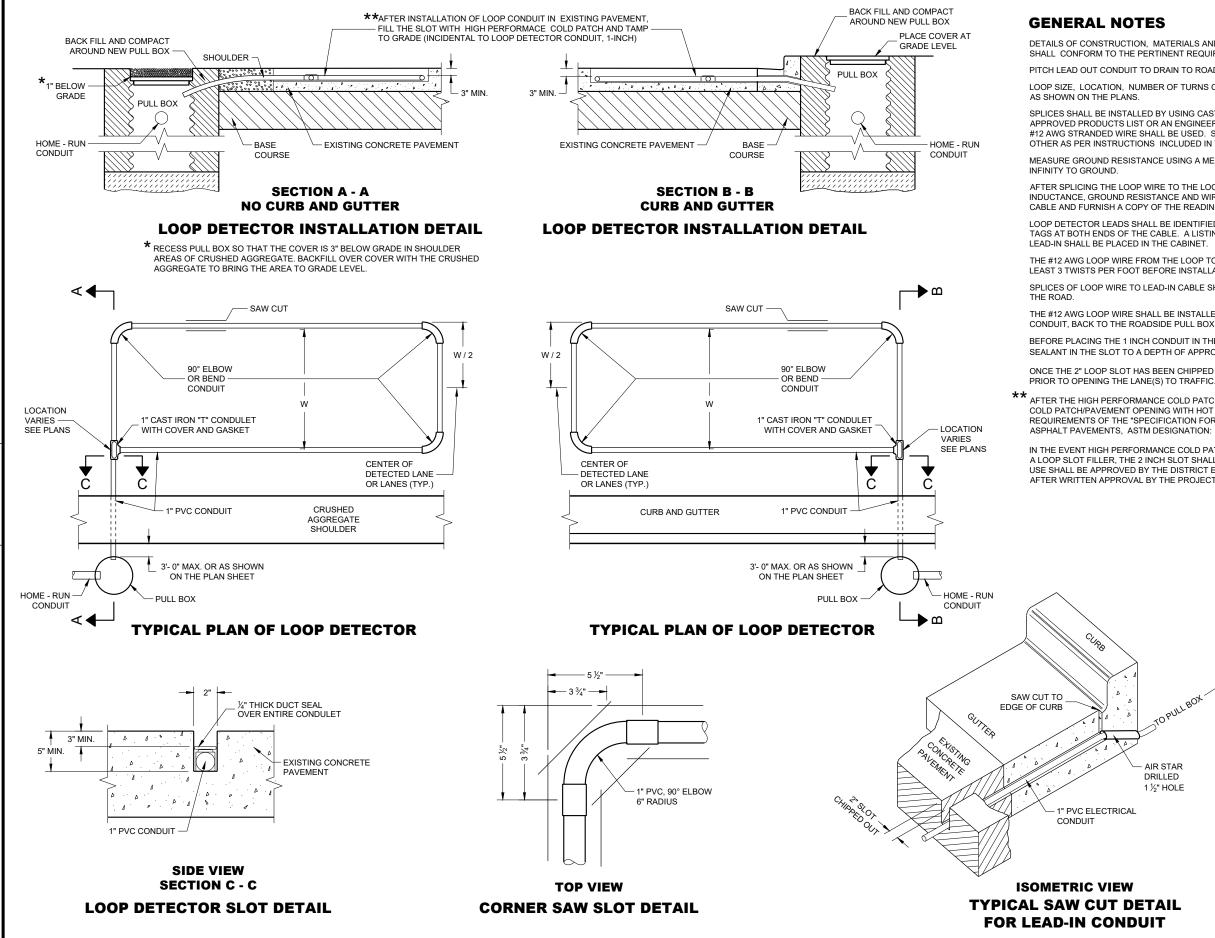
6'-0"

STRUCTURAL IDENTIFICATION

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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH

BEFORE PLACING THE 1 INCH CONDUIT IN THE CLEANED OUT SLOT, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY $\frac{1}{2}\,$ INCH.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED

** AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS. ASTM DESIGNATION: D3405".

IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE , AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER

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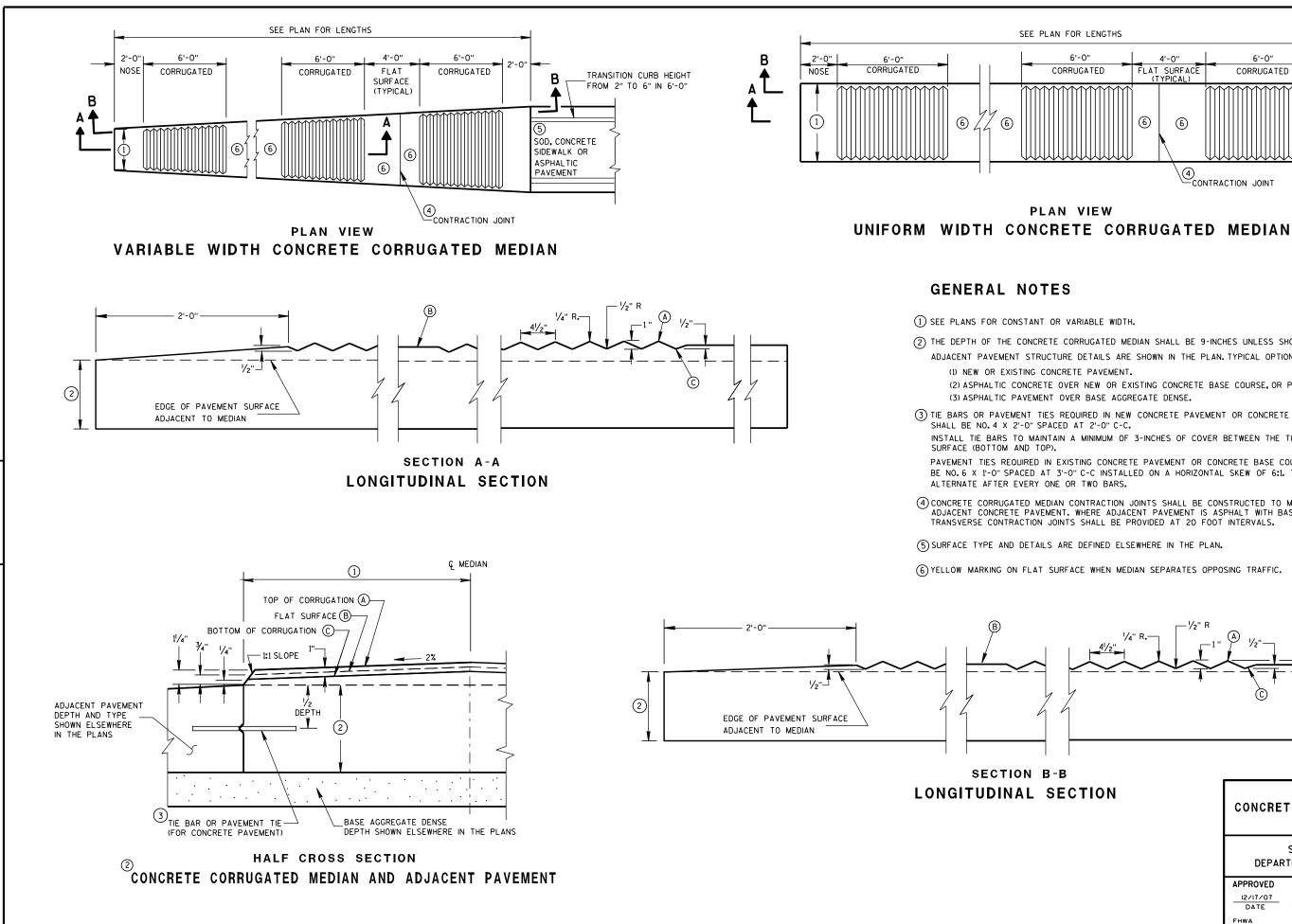
AIR STAR DRILLED 1 ½" HOLE

LOOP DETECTOR **INSTALLED IN EXISTING CONCRETE PAVEMENT**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED September 2014 DATE

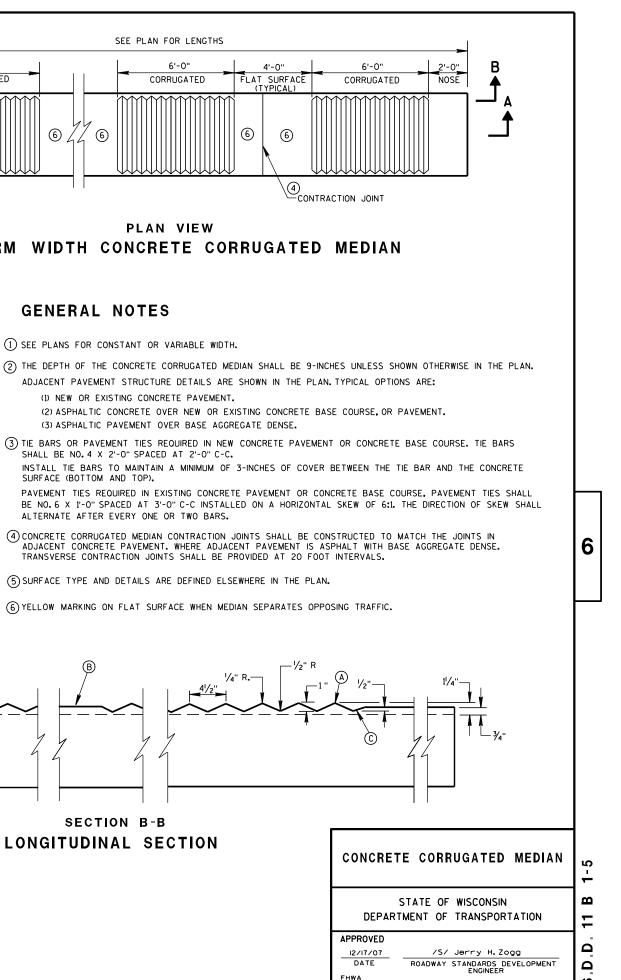
/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER



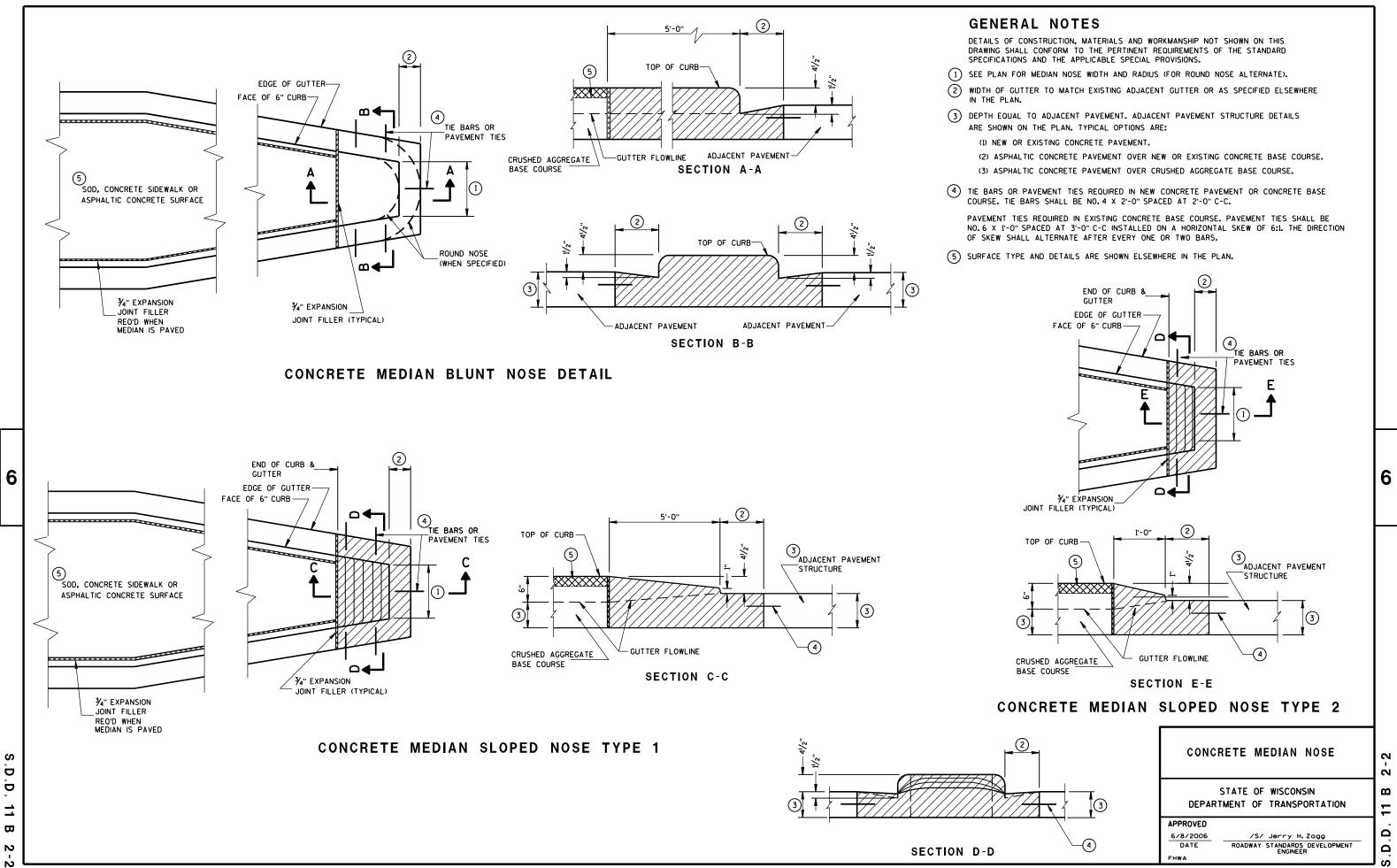
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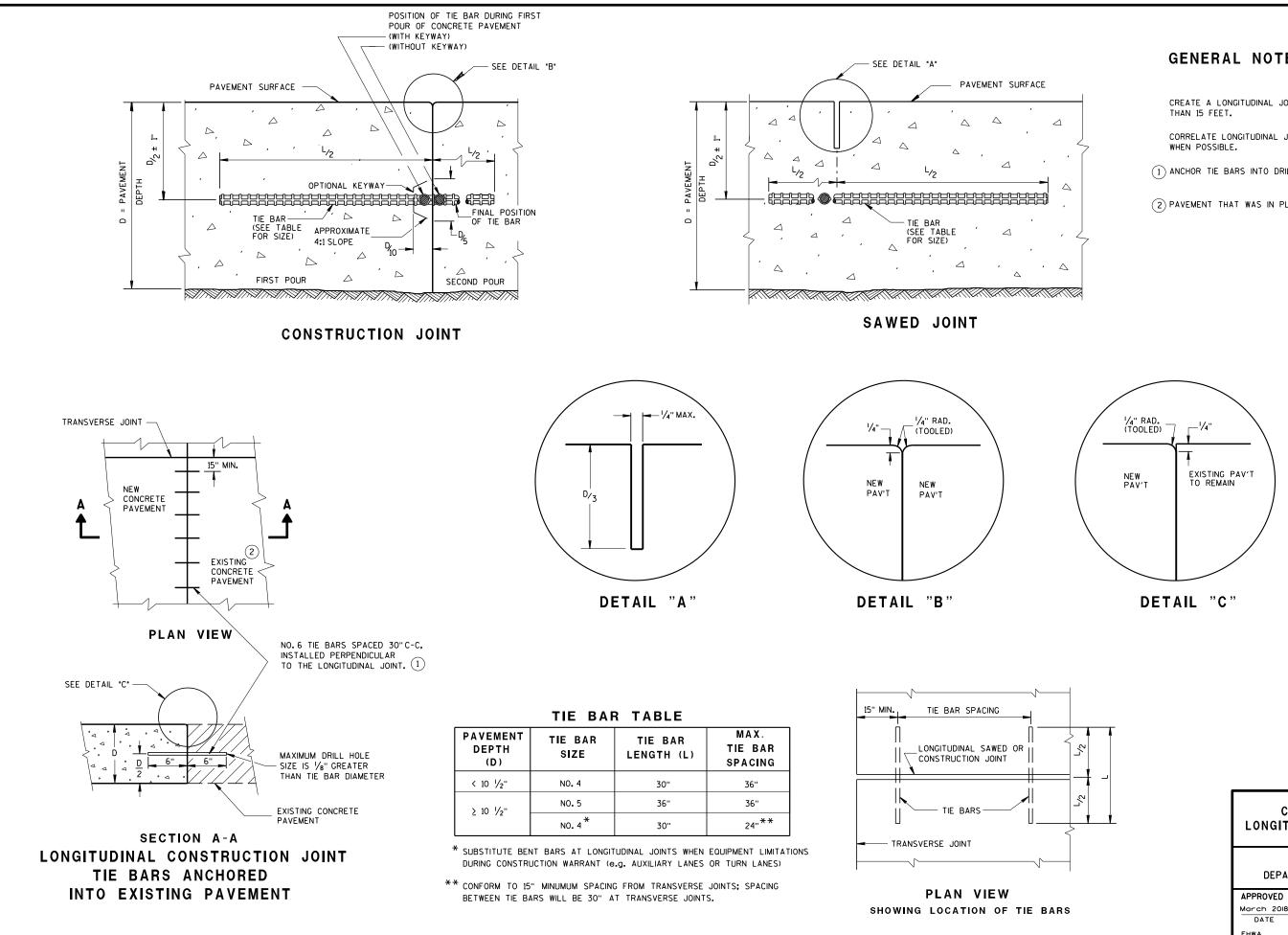
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GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES

- (1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
- (2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

DATE

/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR

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FULL DEPTH CONCRETE PAVEMENT REMOVAL

REPAIR LENGTH

6' MIN. **SECTION B - B**

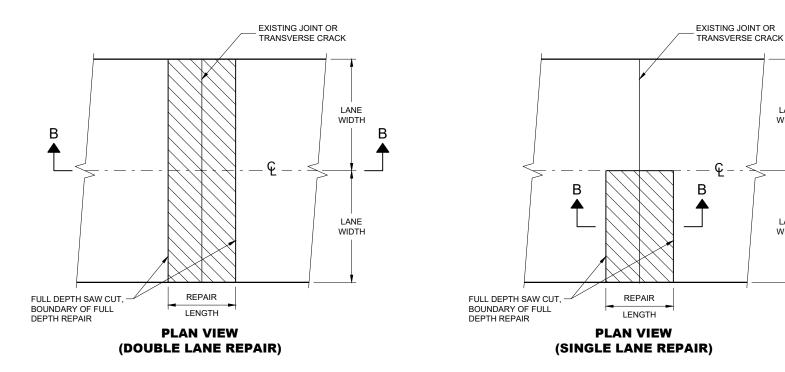
CONCRETE REMOVAL

3' MIN.

3' MIN.

FULL DEPTH

SAW CUT



FULL DEPTH

SAW CUT

GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

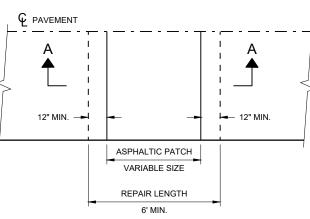
TRANSVERSE JOINT OR CRACK.

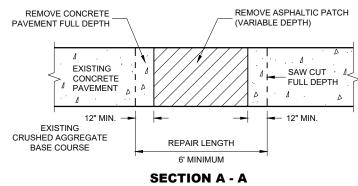
IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1 DOWEL BARS MAY NOT BE PRESENT.

I ANF WIDTH

LANE WIDTH





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

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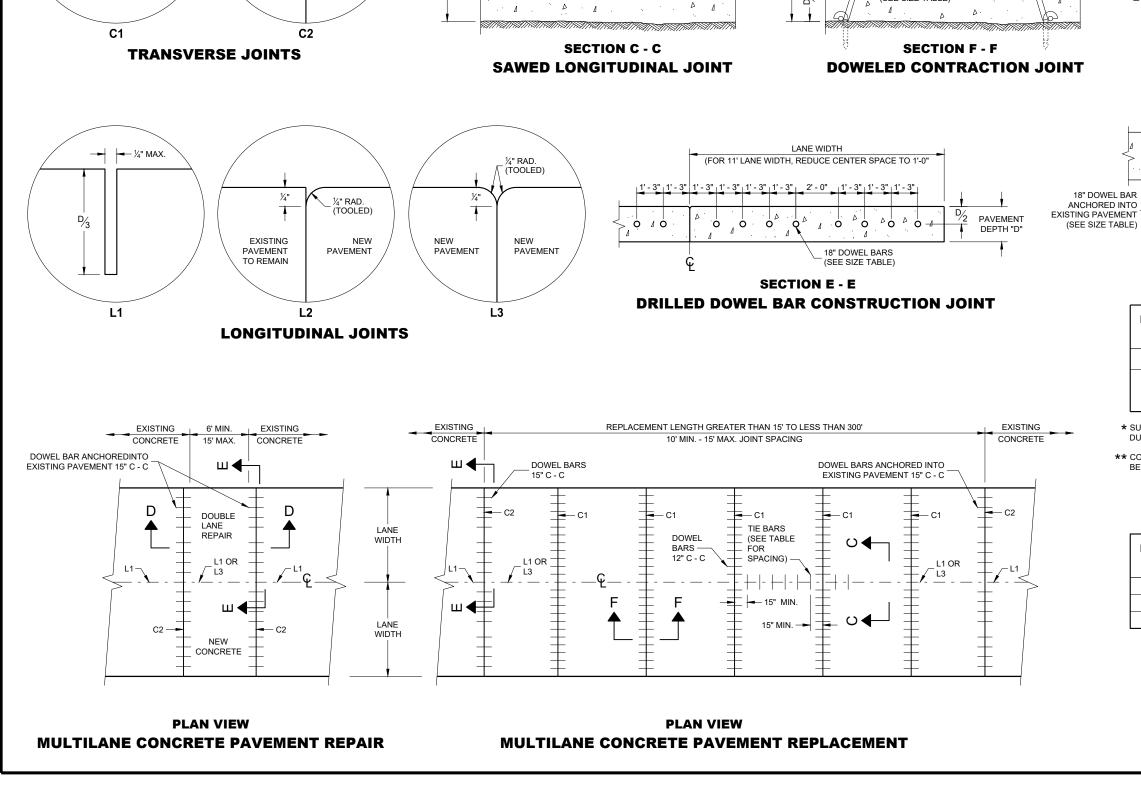
HMA PATCH REMOVAL

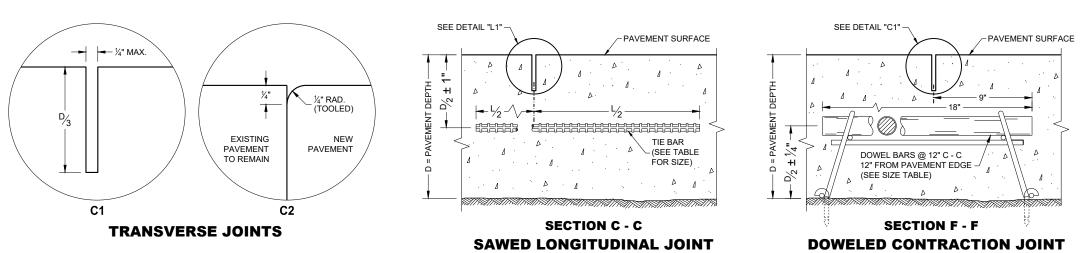
PLAN VIEW

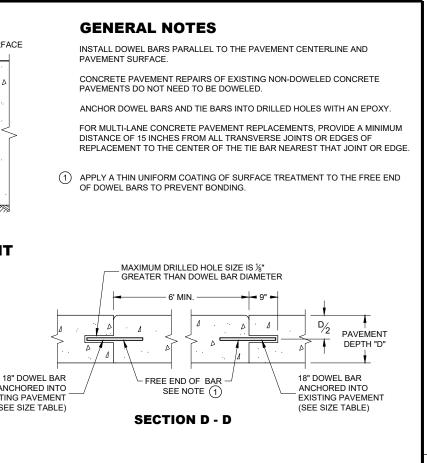
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT

PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT









TIE BAR TABLE

| PAVEMENT DEPTH (D) | TIE BAR SIZE | TIE BAR LENGTH (L) | MAX. TIE BAR SPACING |
|-----------------------|-----------------|-----------------------|----------------------------|
| < 10 ½" | NO. 4 | 30" | 36" |
| - 10 1/1 | NO. 5 | 36" | 36" |
| ≥ 10 ½" | 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" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

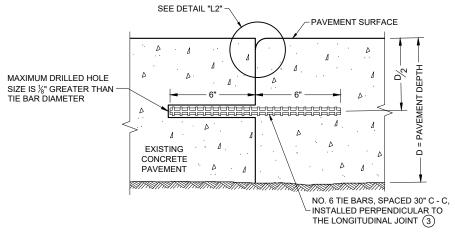
| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | DRILLED DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|-----------------------|-----------------------|----------------------------------|---------------------------------|
| 6", 6 ½" | NONE | NONE | 12' |
| 7", 7 ½" | 1" | 1" | 14' |
| 8" & ABOVE | 1 ¼" | 1 ¼" | 15' |

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

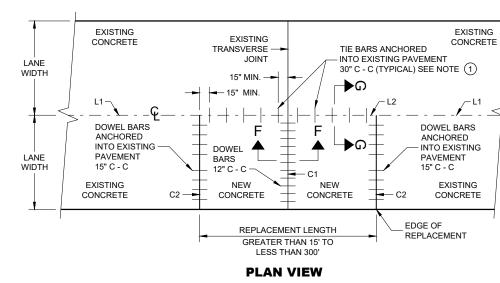
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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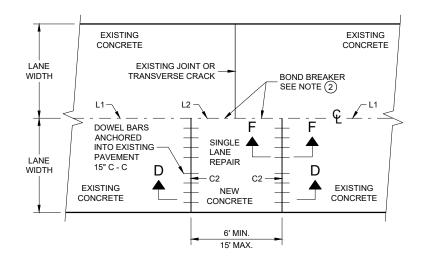
- AS TO PROVIDE A TIGHT DRIVEN FIT.



SECTION G - G TIE BARS ANCHORED INTO EXISTING PAVEMENT







PLAN VIEW SINGLE LANE CONCRETE PAVEMENT REPAIR



(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER

(2) USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

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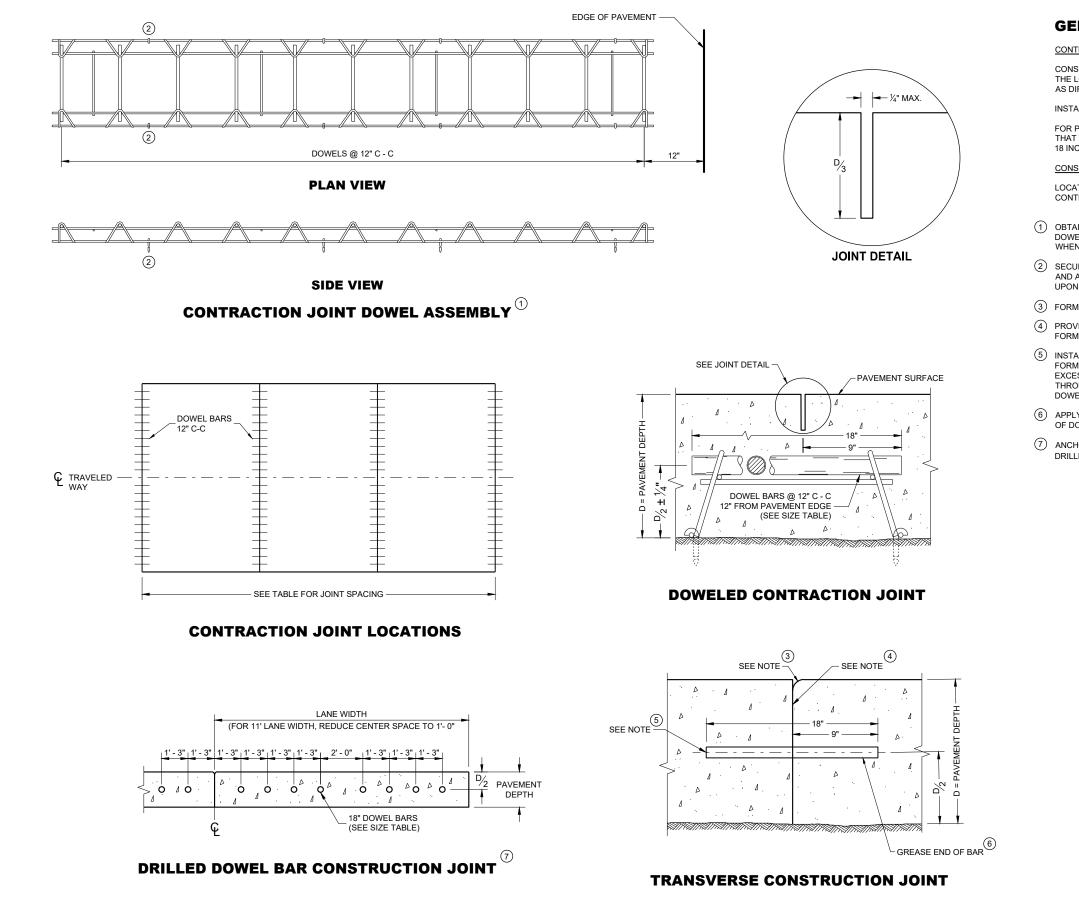
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CONCRETE REPAIR AND REPLACEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR



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.

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 FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE 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 CONSTRUCTION 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 1/4" RADIUS AT FORMED JOINTS.

FORMING CONSTRUCTION JOINTS.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

GENERAL NOTES

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN

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 THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|-----------------------|-----------------------|---------------------------------|
| 6", 6 ½" | NONE | 12' |
| 7", 7 ½" | 1" | 14' |
| 8" & ABOVE | 1 ¼" | 15' |

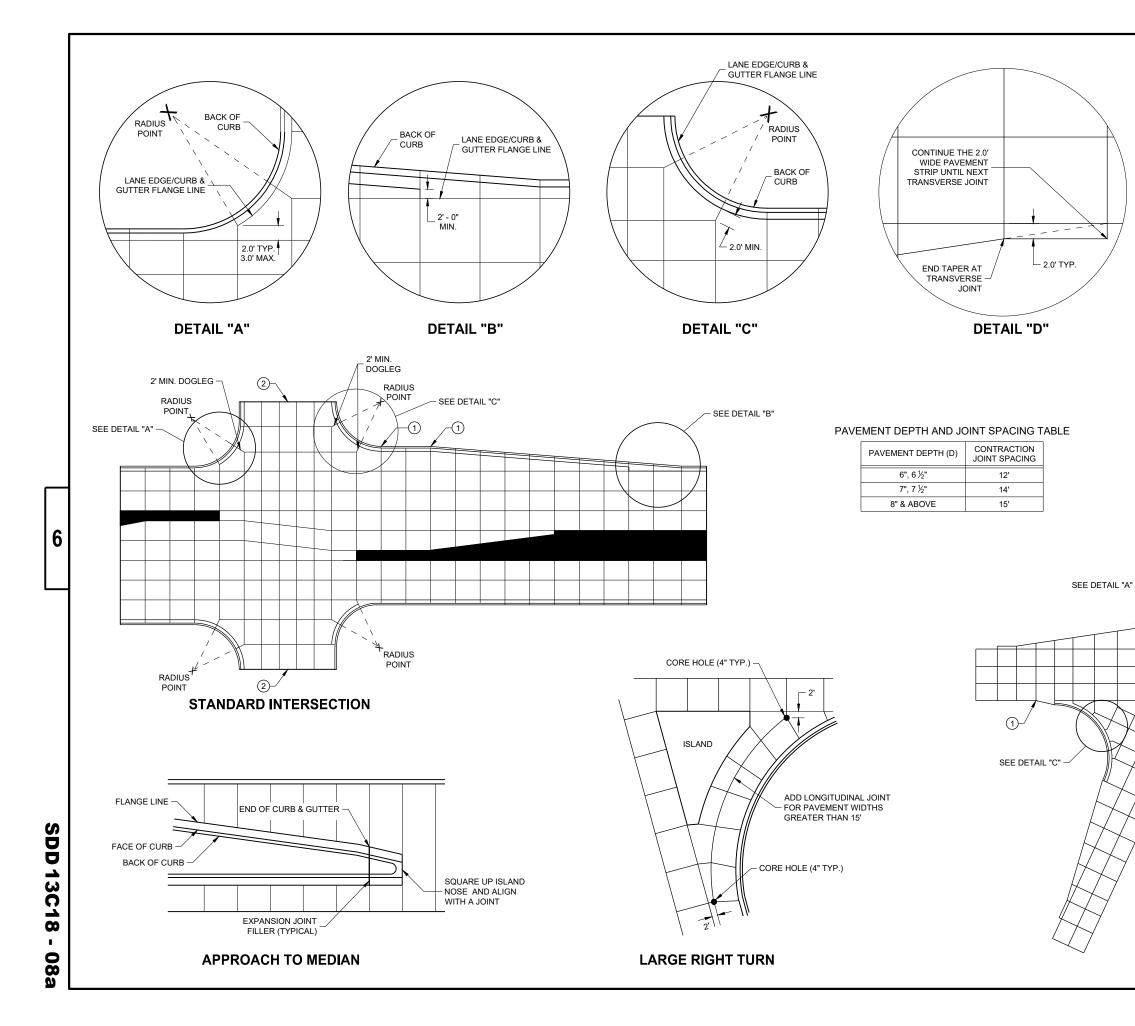
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URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Peter Kemp P.E PAVEMENT SUPERVISOR



AVOID

AND AC

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.

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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.

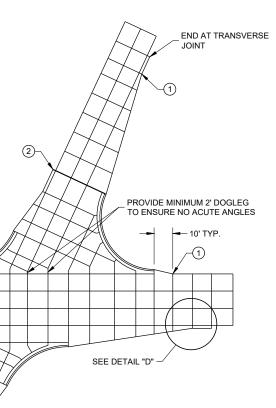
ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

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.

(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.

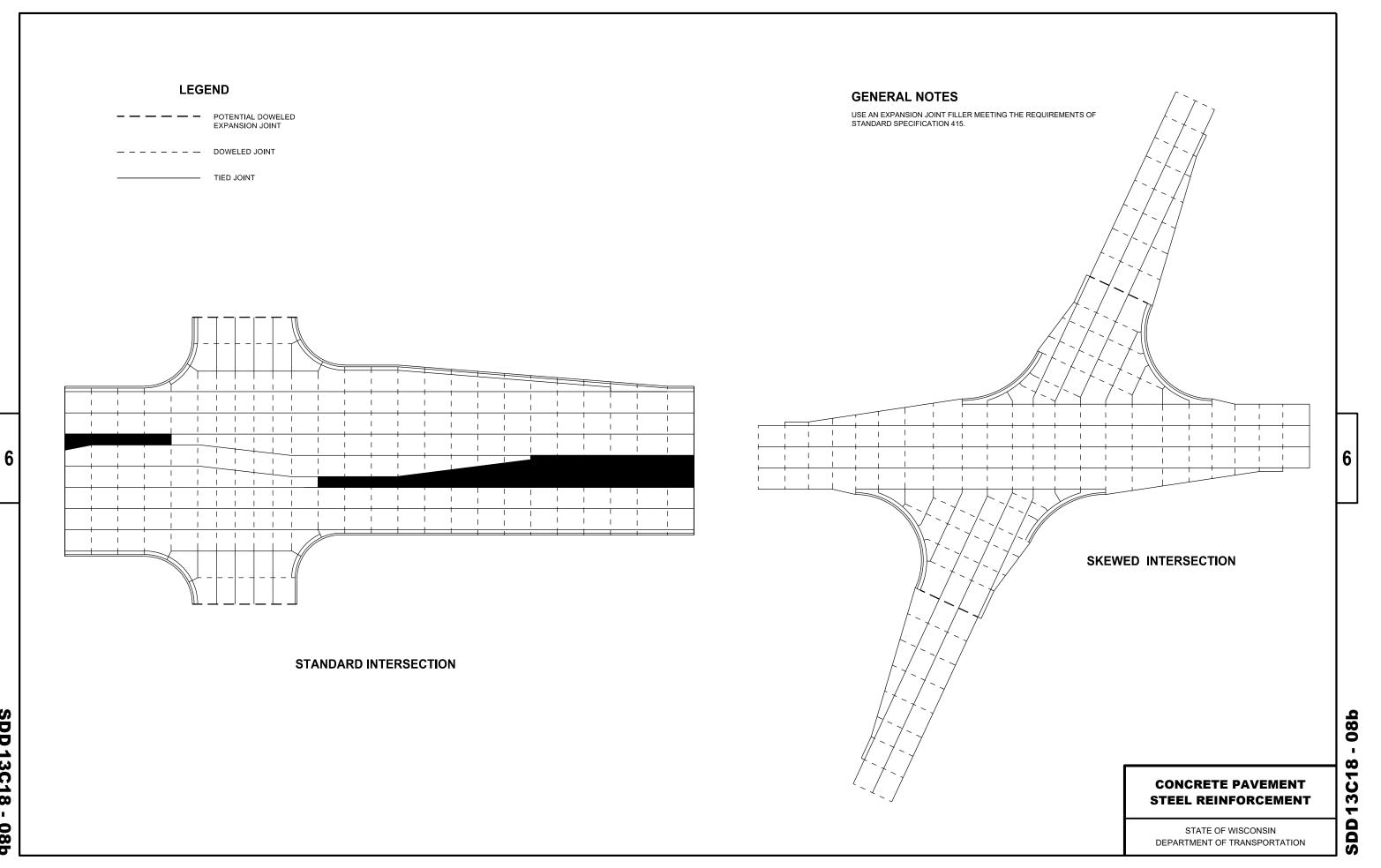


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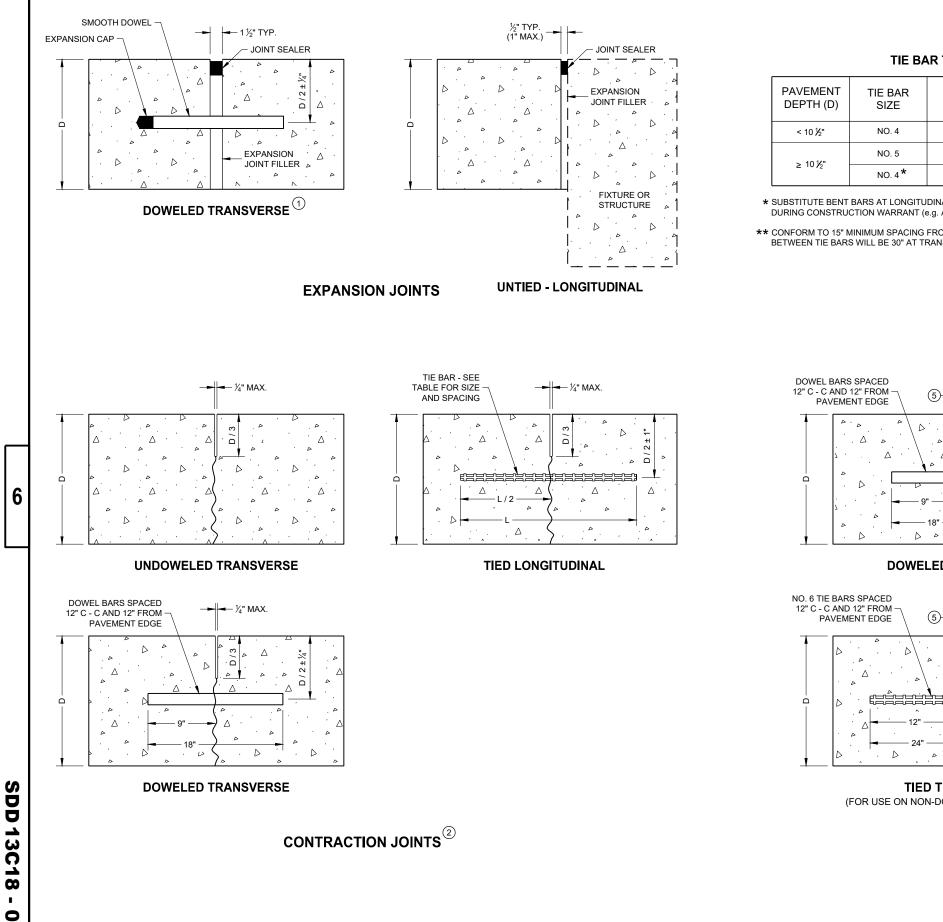
CONCRETE PAVEMENT JOINTING

SKEWED INTERSECTION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 13C18 08b

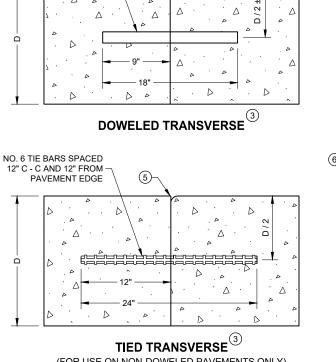


TIE BAR TABLE

| PAVEME DEPTH (| | TIE BAR SIZE | TIE BAR LENGTH (L) | MAX. TIE BAR SPACING |
|-------------------|---------|-----------------|-----------------------|----------------------------|
| < 10 ½" | | NO. 4 | 30" | 36" |
| × 10 1/." | | NO. 5 | 36" | 36" |
| ≥ 10 ½" | NO. 4 * | 30" | 24"** | |

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

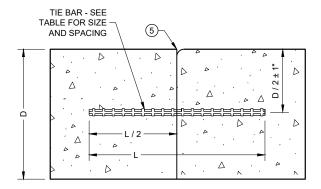
****** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



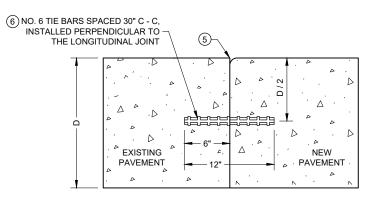
- (1) USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
- (2) SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
- (3) LOCATE CONSTRUCTION JOINTS A 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" RADIUS.
- (6) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



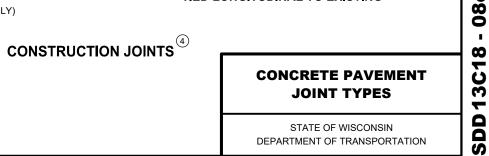
TIED LONGITUDINAL

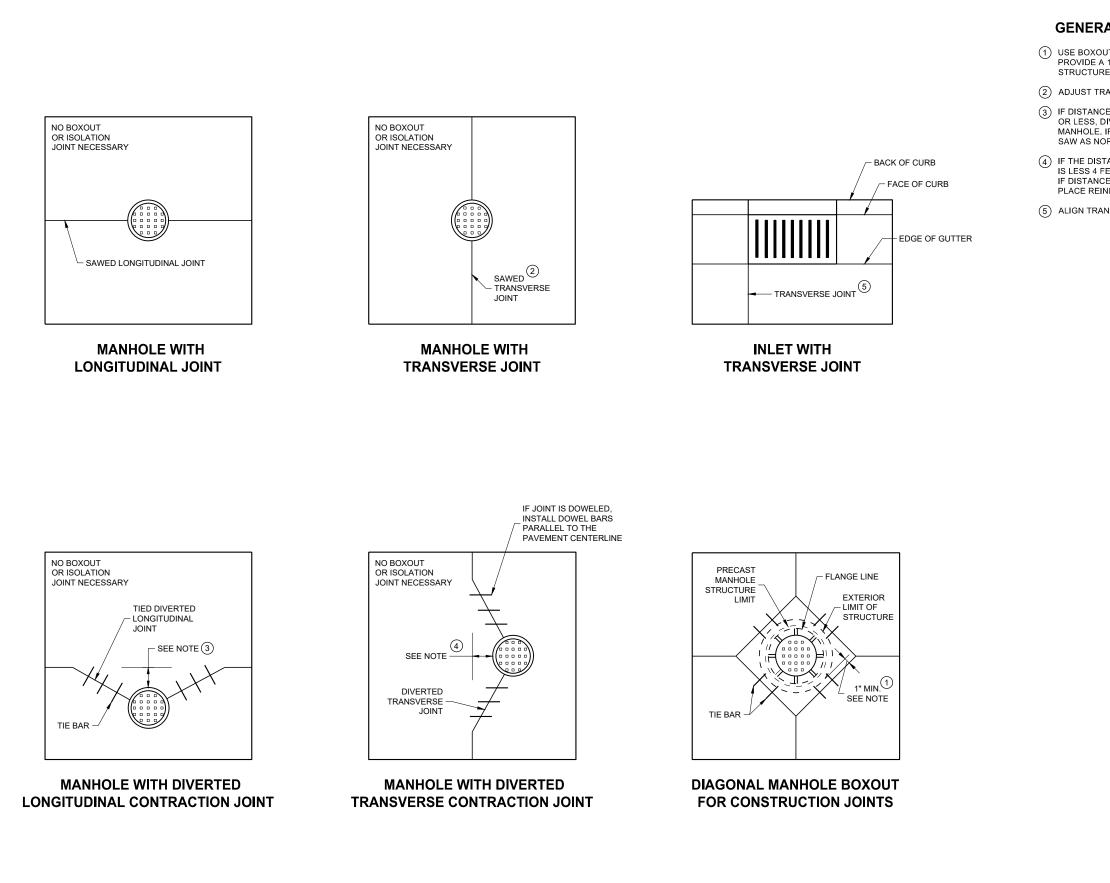
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TIED LONGITUDINAL TO EXISTING





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 LONGITUDINAL 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 REINFORCEMENT REBAR AROUND THE MANHOLE.

(4) IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 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 REINFORCEMENT REBAR AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

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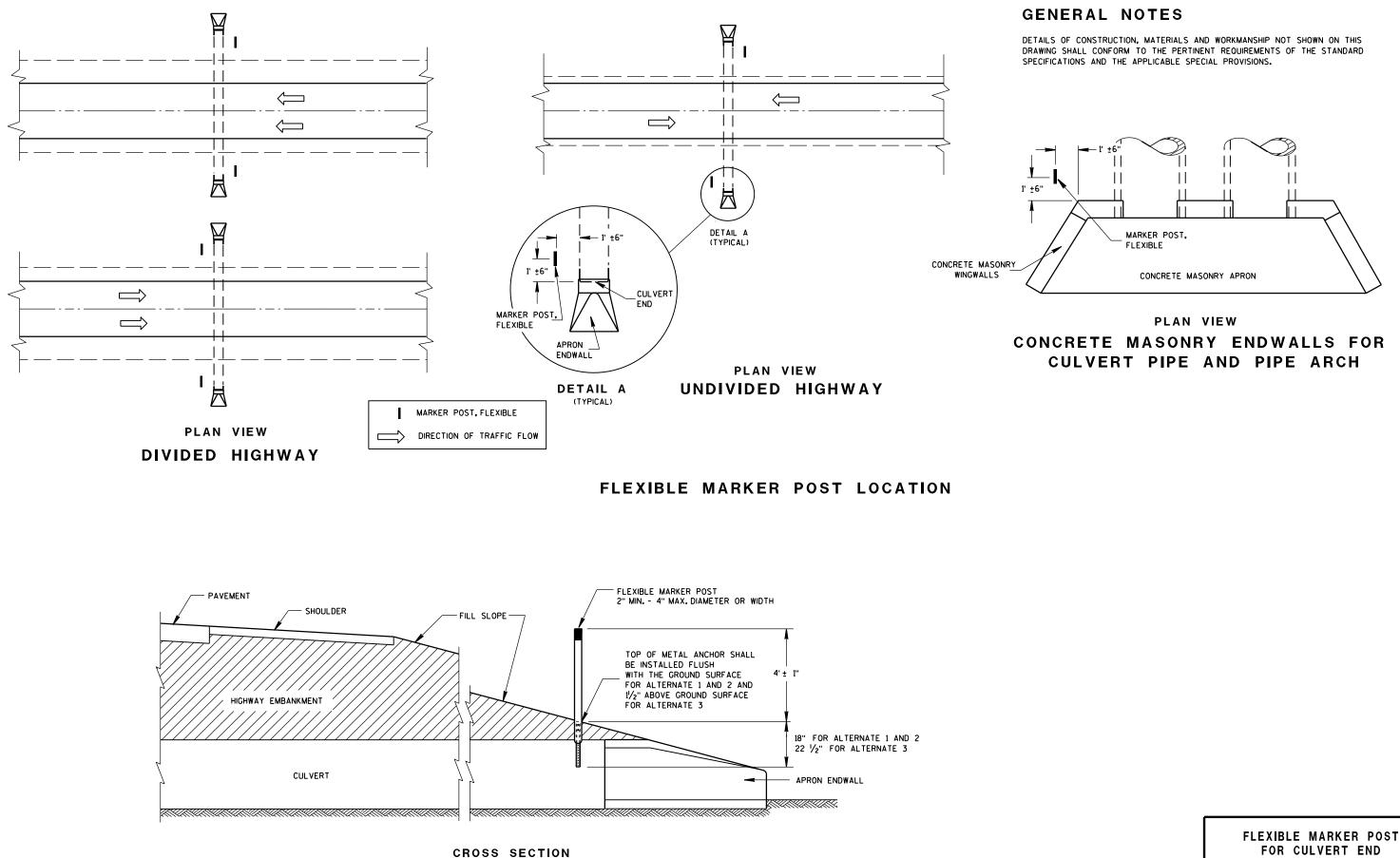
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR

FHWA



FLEXIBLE MARKER POST

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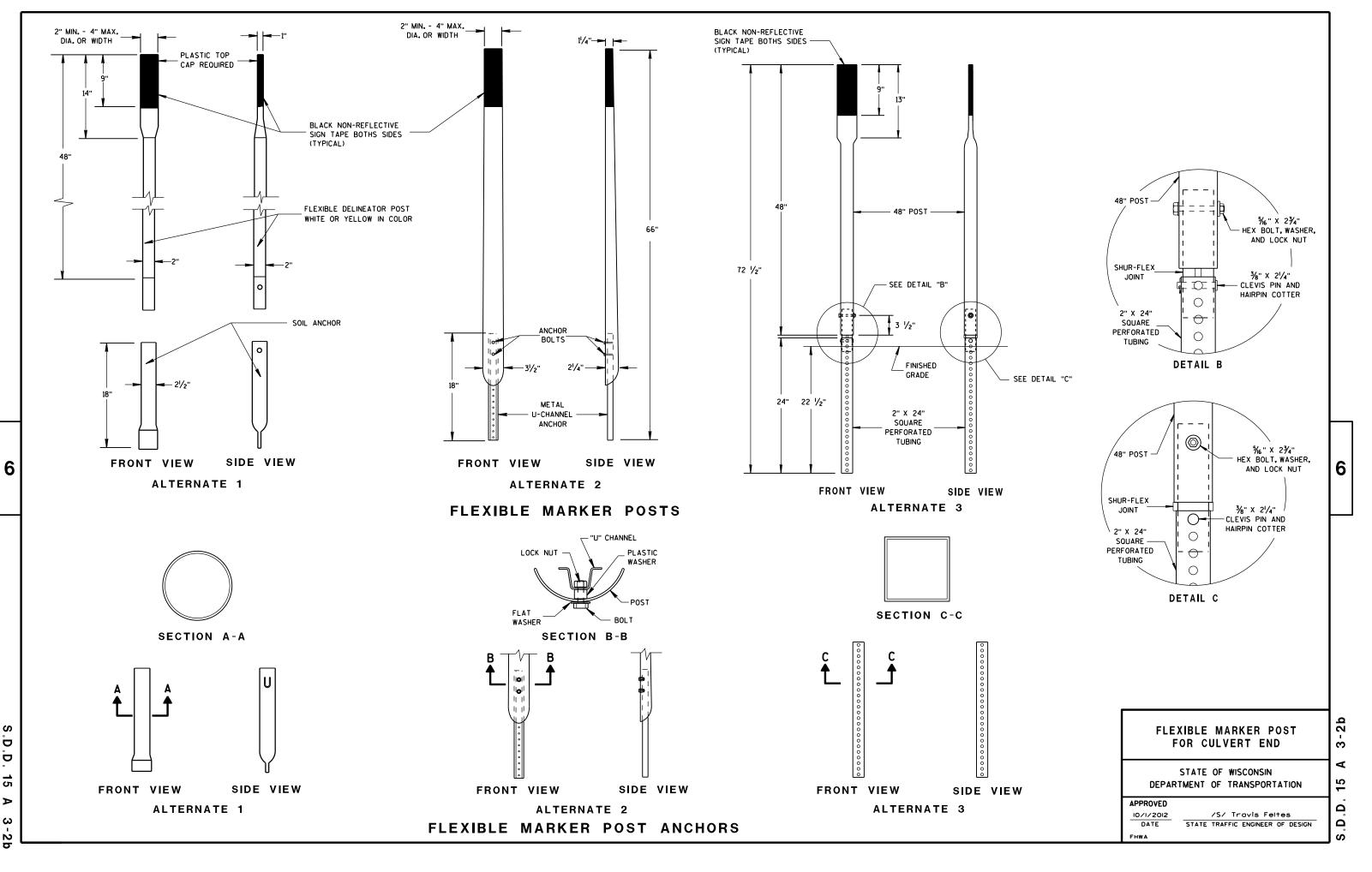
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 15A04 - 07d

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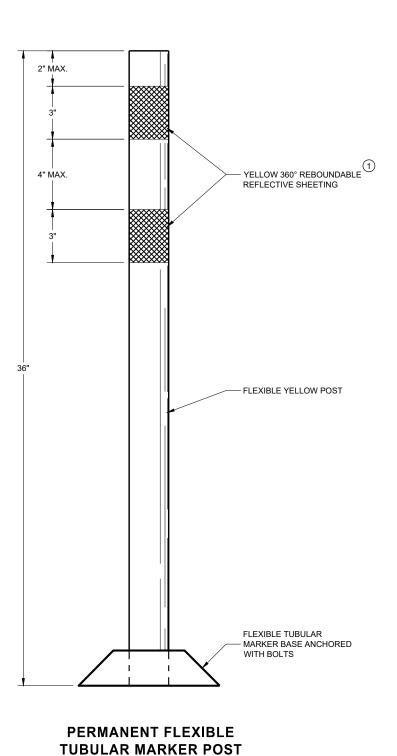


DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.



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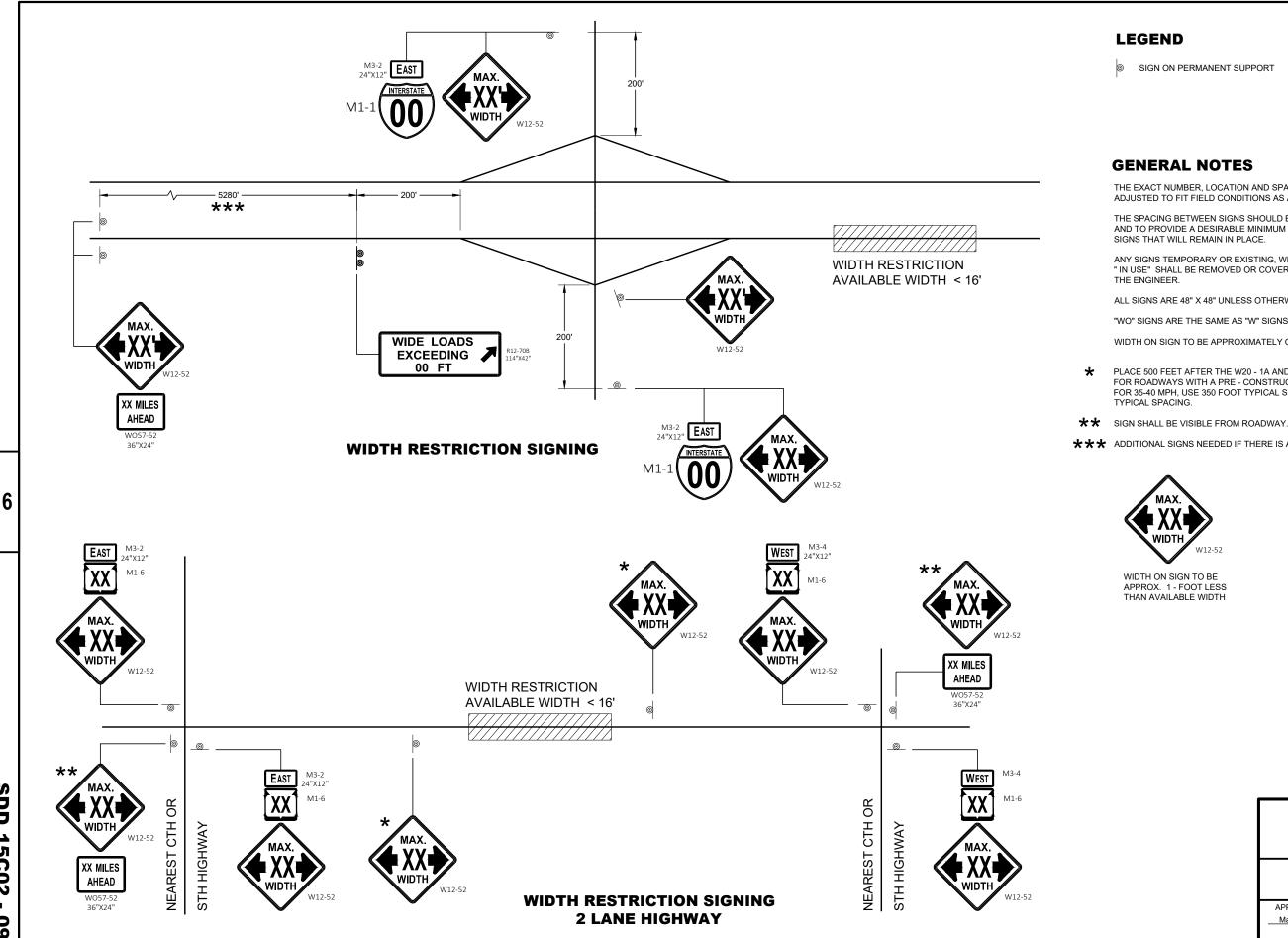
CHANNELIZING DEVICES PERMANENT FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2021 DATE

/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER

FHWA



SDD **15C02** . 09f

SIGN ON PERMANENT SUPPORT

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT

******* ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

ADVANCED WIDTH RESTRICTION SIGNING

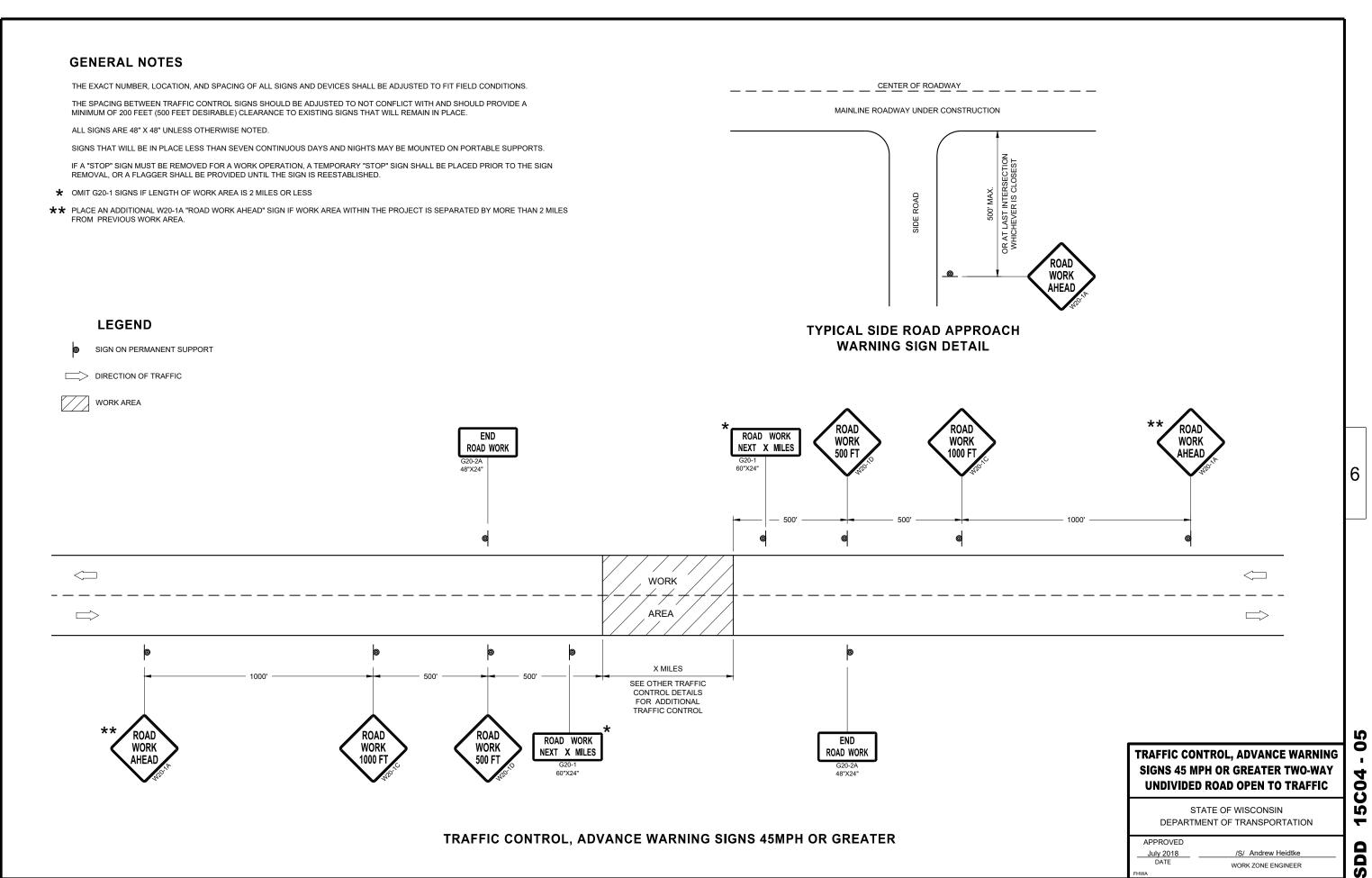
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

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SDD

15C04

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

- 2" MIN. 2

NOTE: TYPICALLY LEFT OF CENTER

LINE IN THE -

OF TRAFFIC

JOINT LINE

*6" EDGE LINE (WHITE) -

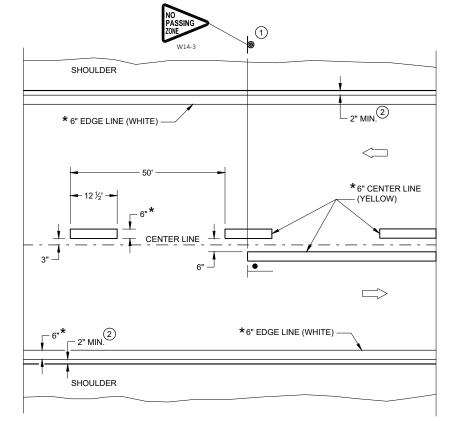
DIRECTION

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(1) Lo (2) M S

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TWO WAY TRAFFIC

ONE WAY TRAFFIC

BLACK LAG

MARKING

SHOULDER

6" EDGE LINE (YELLOW) -

2" MIN. 2

SHOULDER

2

3" 🗐

PERMANENT PAVEMENT MARKING

T

50'

LANE LINE

– MARKING

(WHITE)

SDD 15C08-23a

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GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

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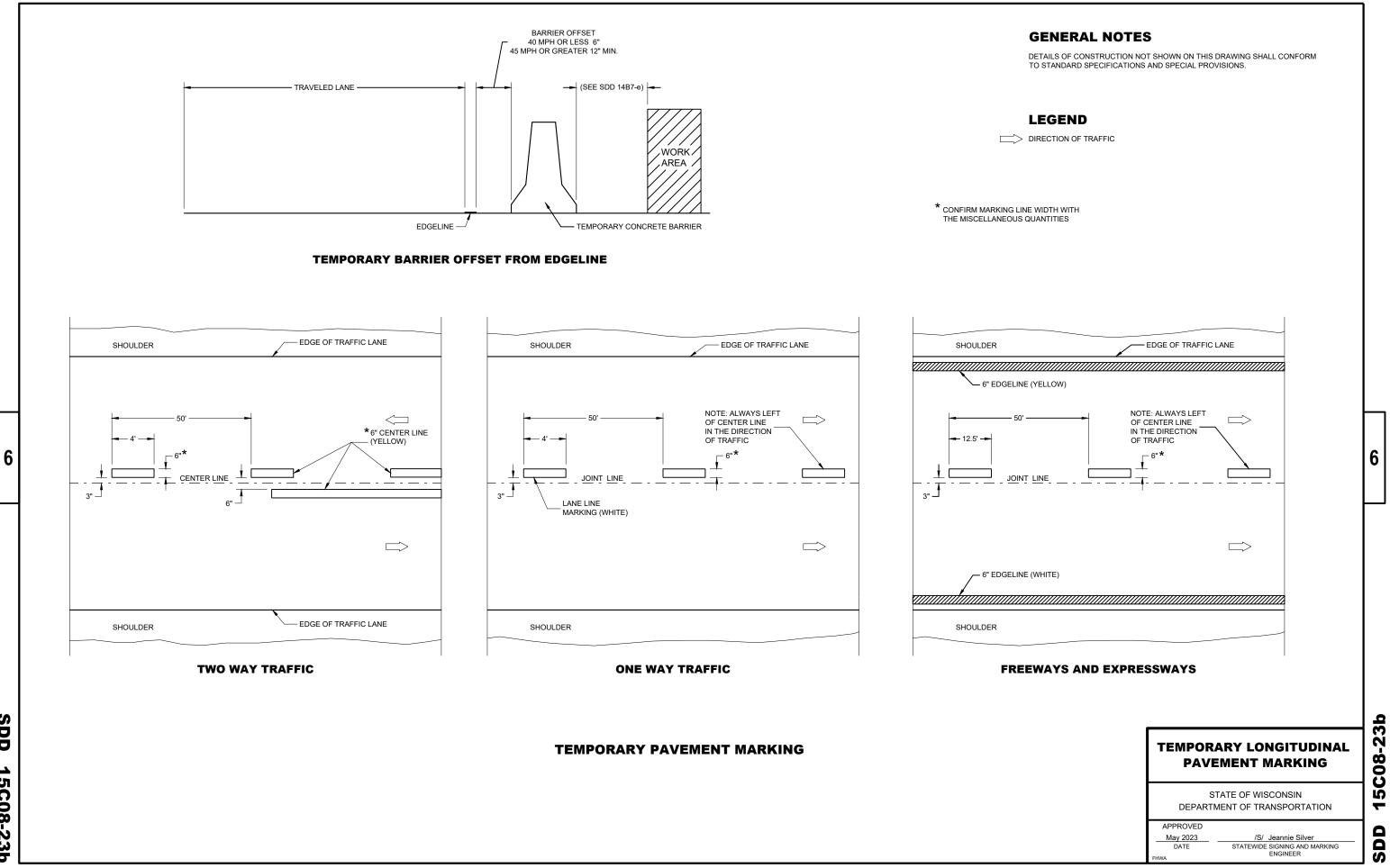
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PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATEWIDE SIGNING AND MARKING ENGINEER



SDD 15C08-23b



2 10" WHITE

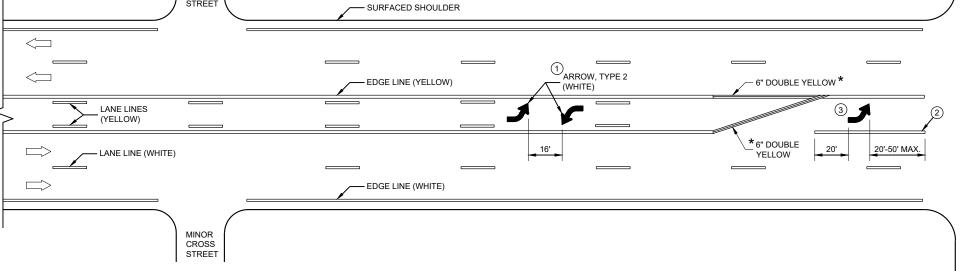
DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

MAJOR CROSS STREET

MAJOR CROSS STREET

TWO WAY LEFT TURN LANE

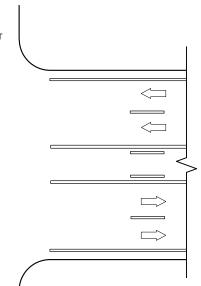


MINOR CROSS STREET

GENERAL NOTES

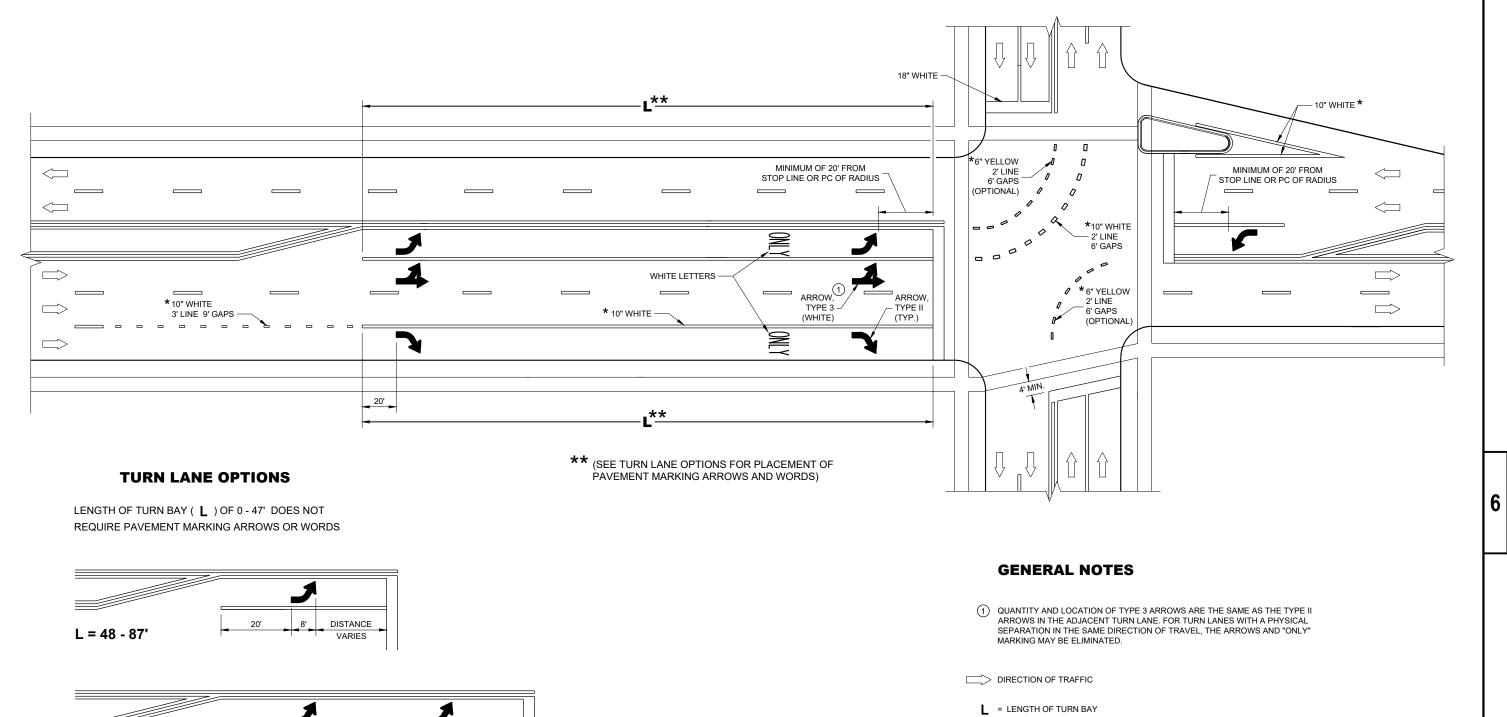
(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(3) TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

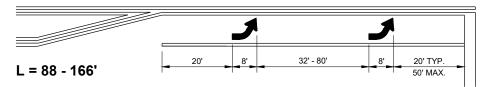


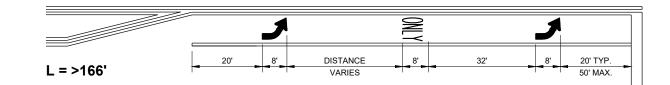
PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES





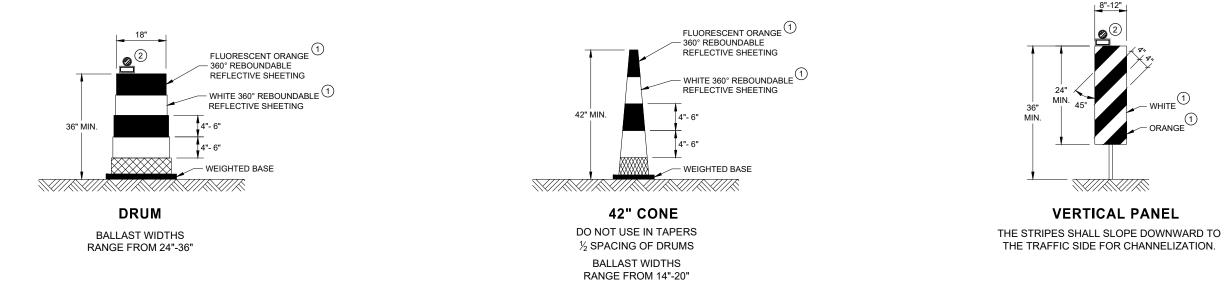
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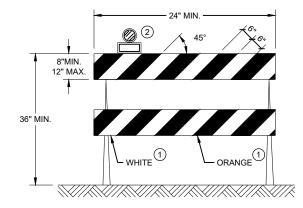
PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

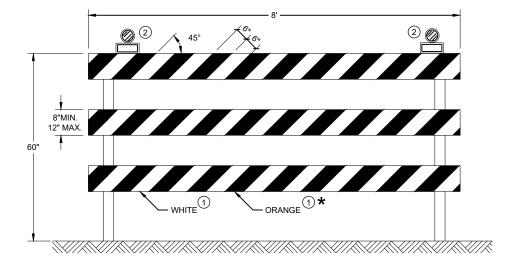
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III 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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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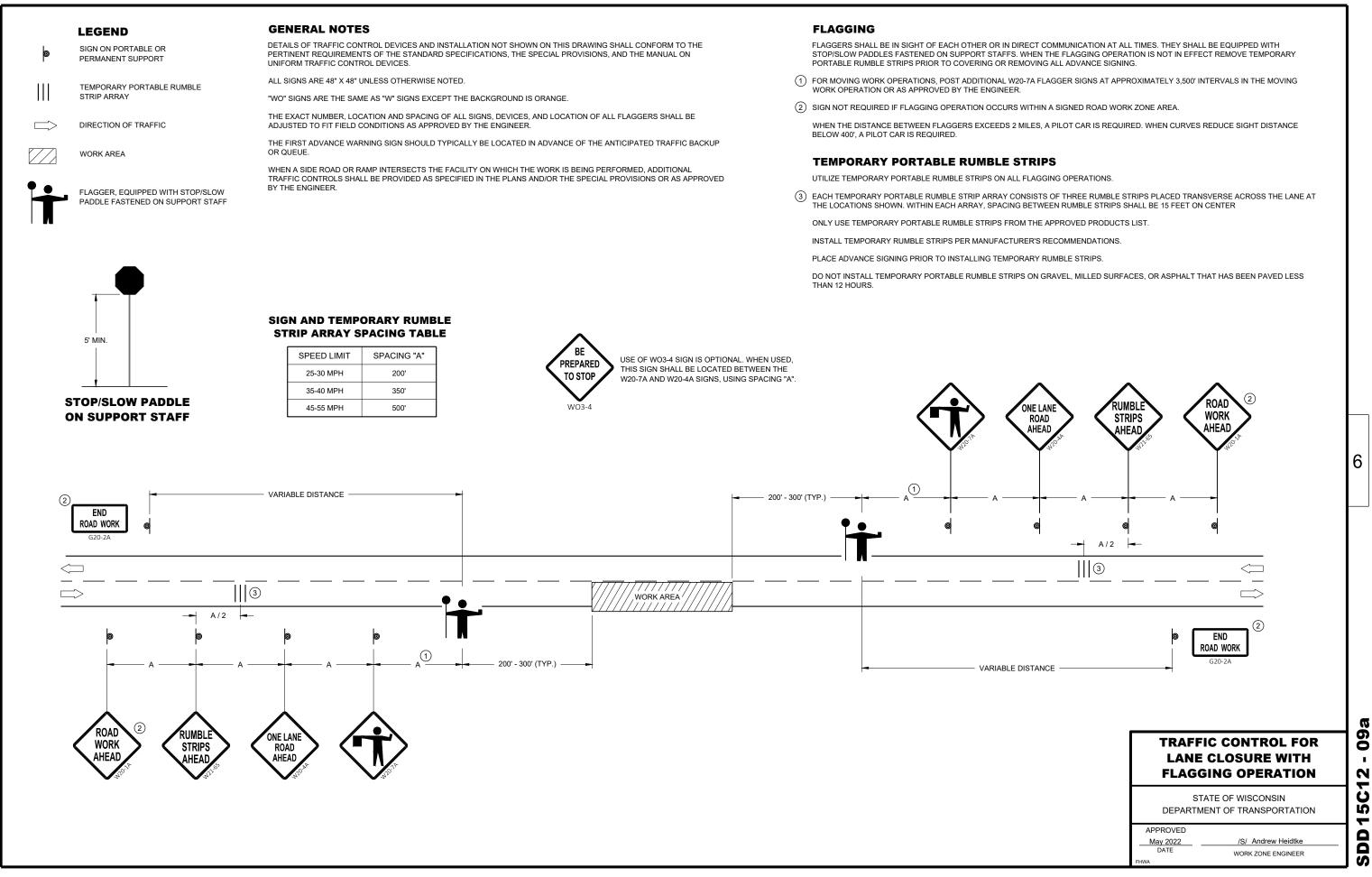
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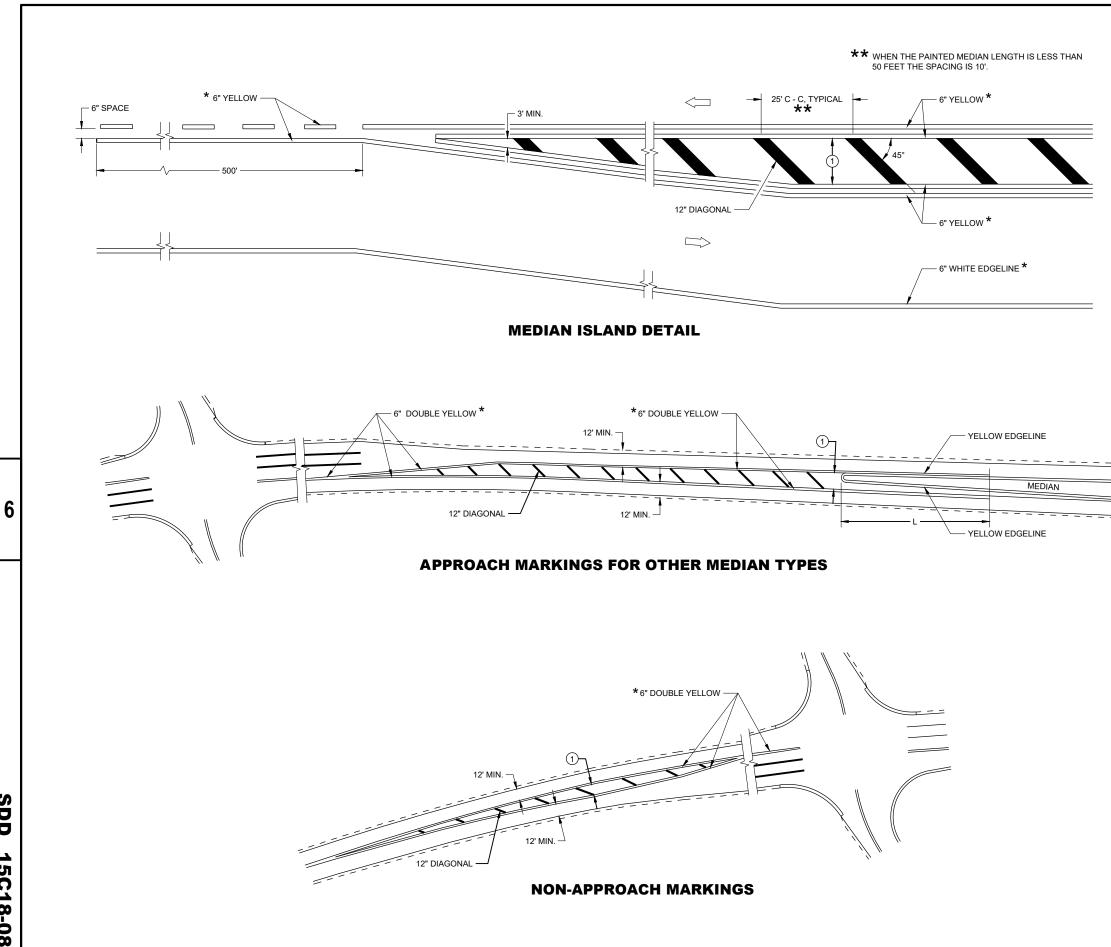
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER





SDD 15C18-08a

GENERAL NOTES

1 DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

| SPEED LIMIT | L |
|-------------|-----|
| <35 MPH | 5' |
| 35> MPH | 50' |

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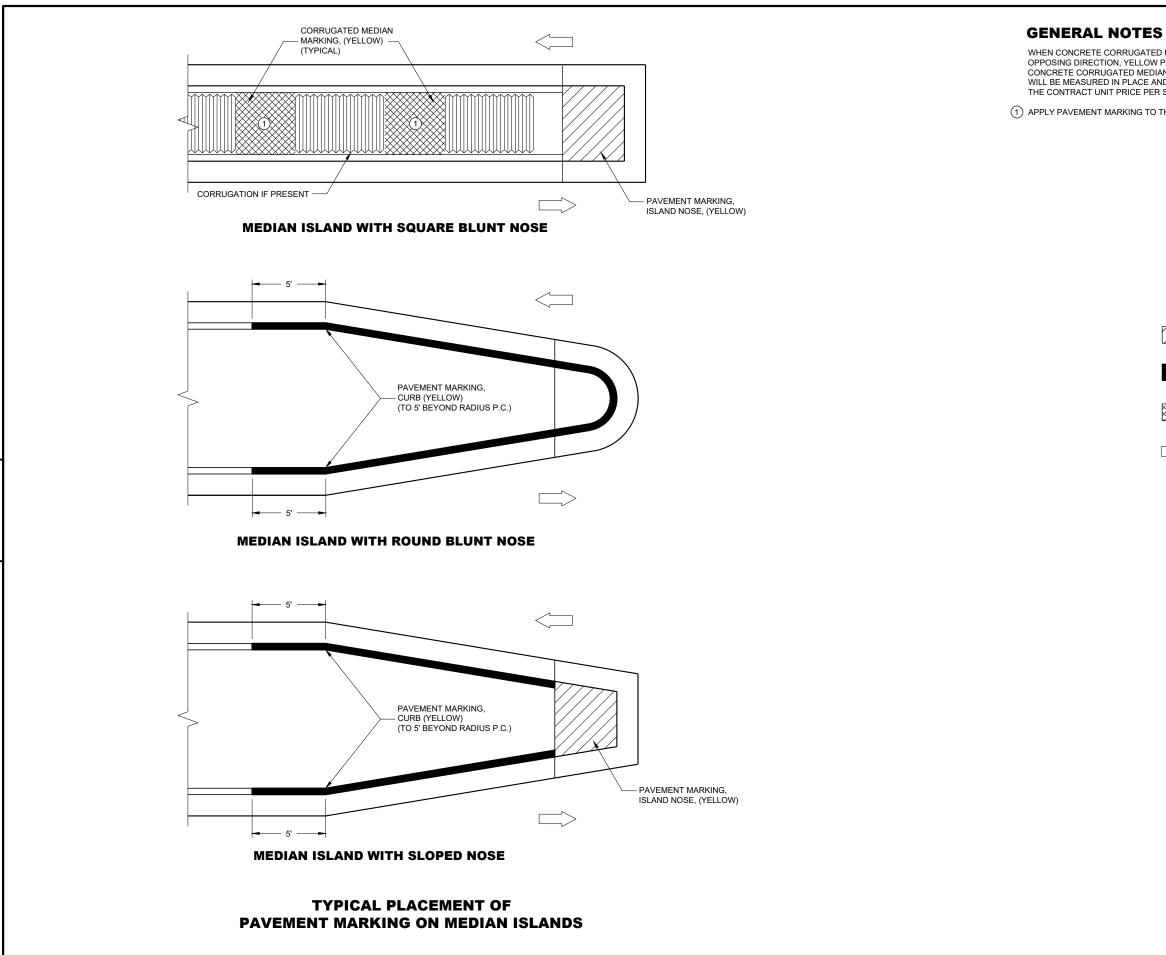
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MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER



WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.



ISLAND NOSE MARKING

CURB MARKING



CORRUGATED MEDIAN MARKING



DIRECTION OF TRAVEL

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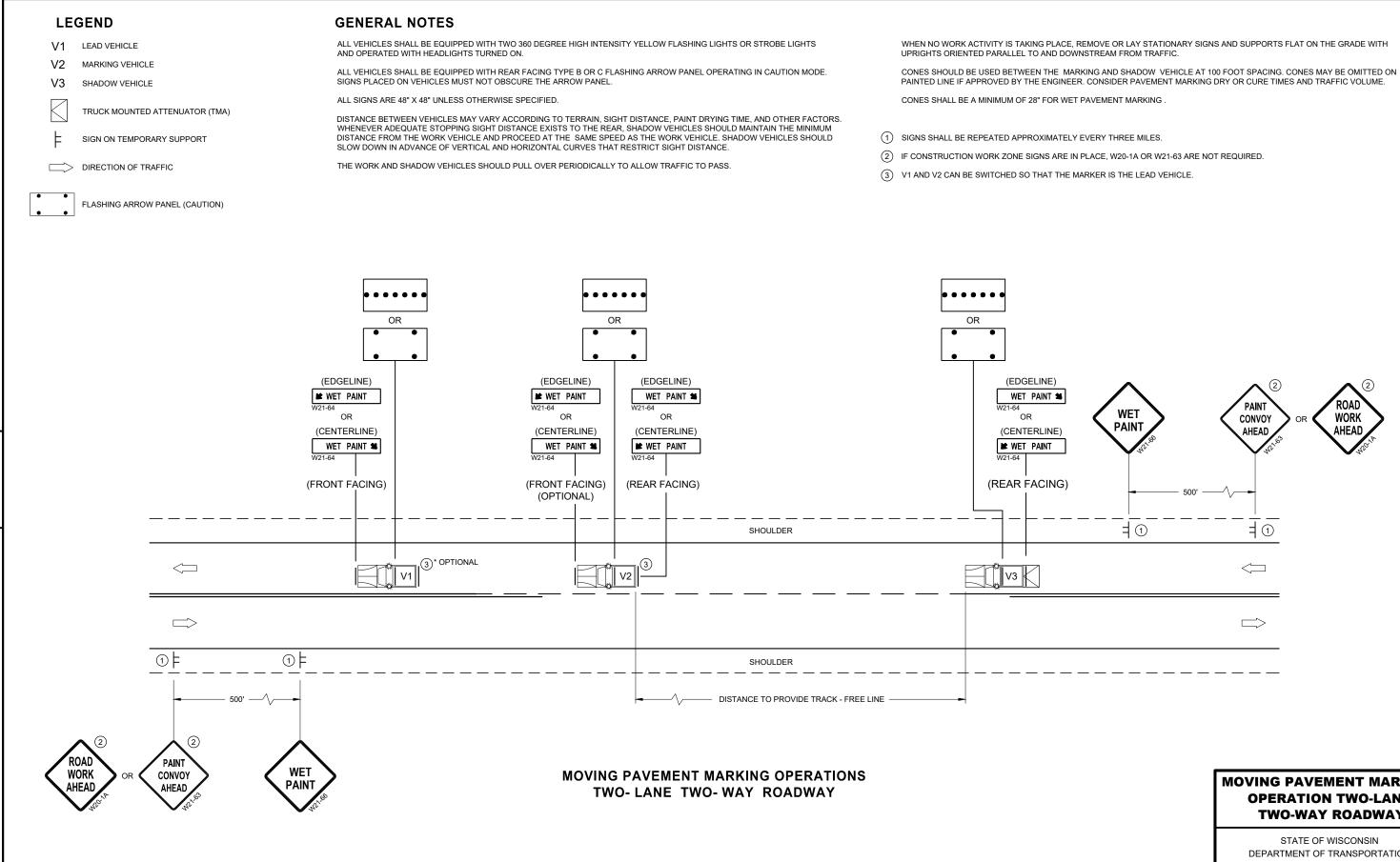
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PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER



SDD 15C19-08a

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MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

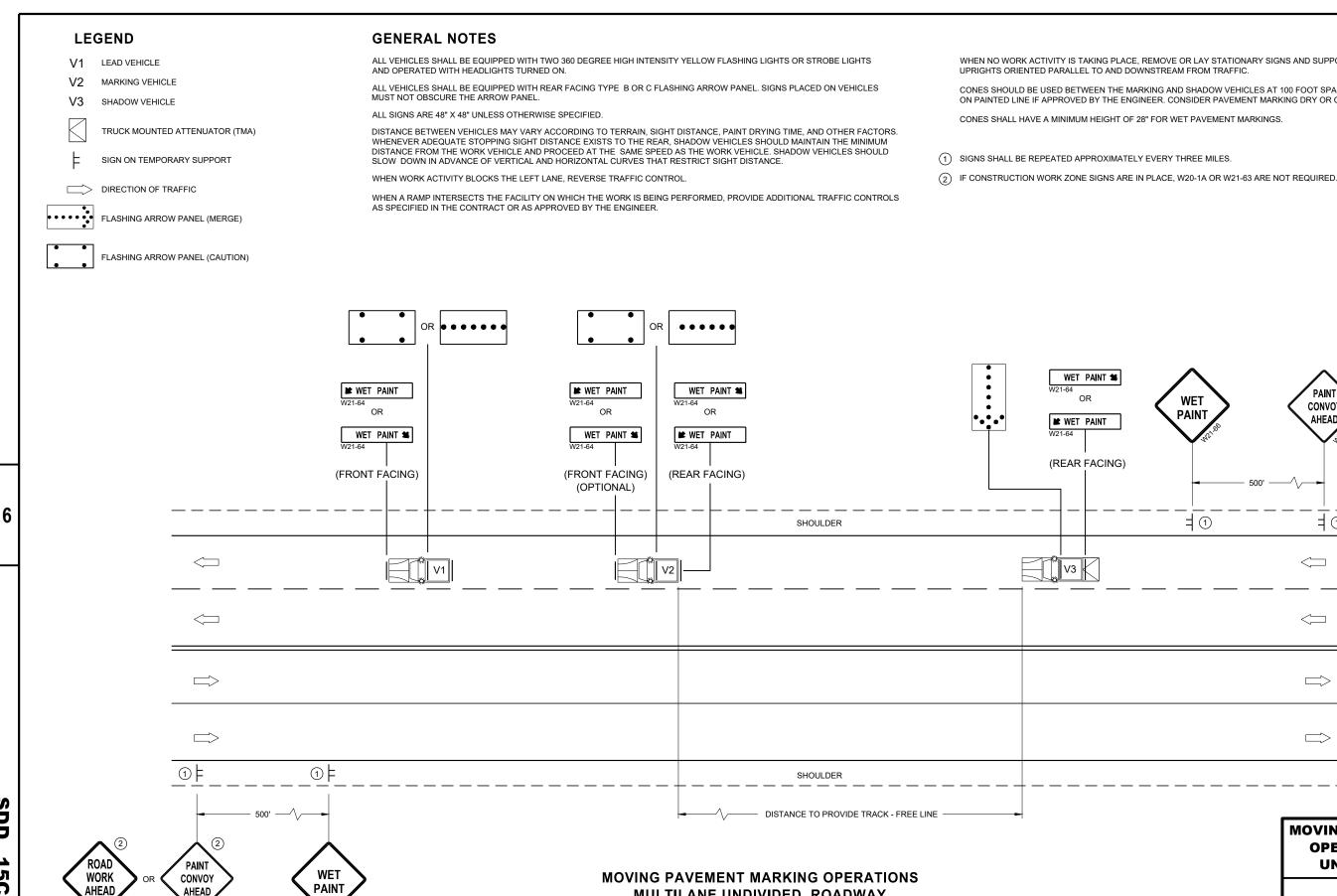
DEPARTMENT OF TRANSPORTATION

APPROVED February 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 6

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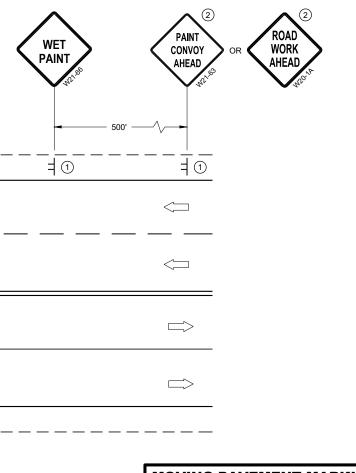
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MULTILANE UNDIVIDED ROADWAY

SDD 15C19-08b WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.



MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

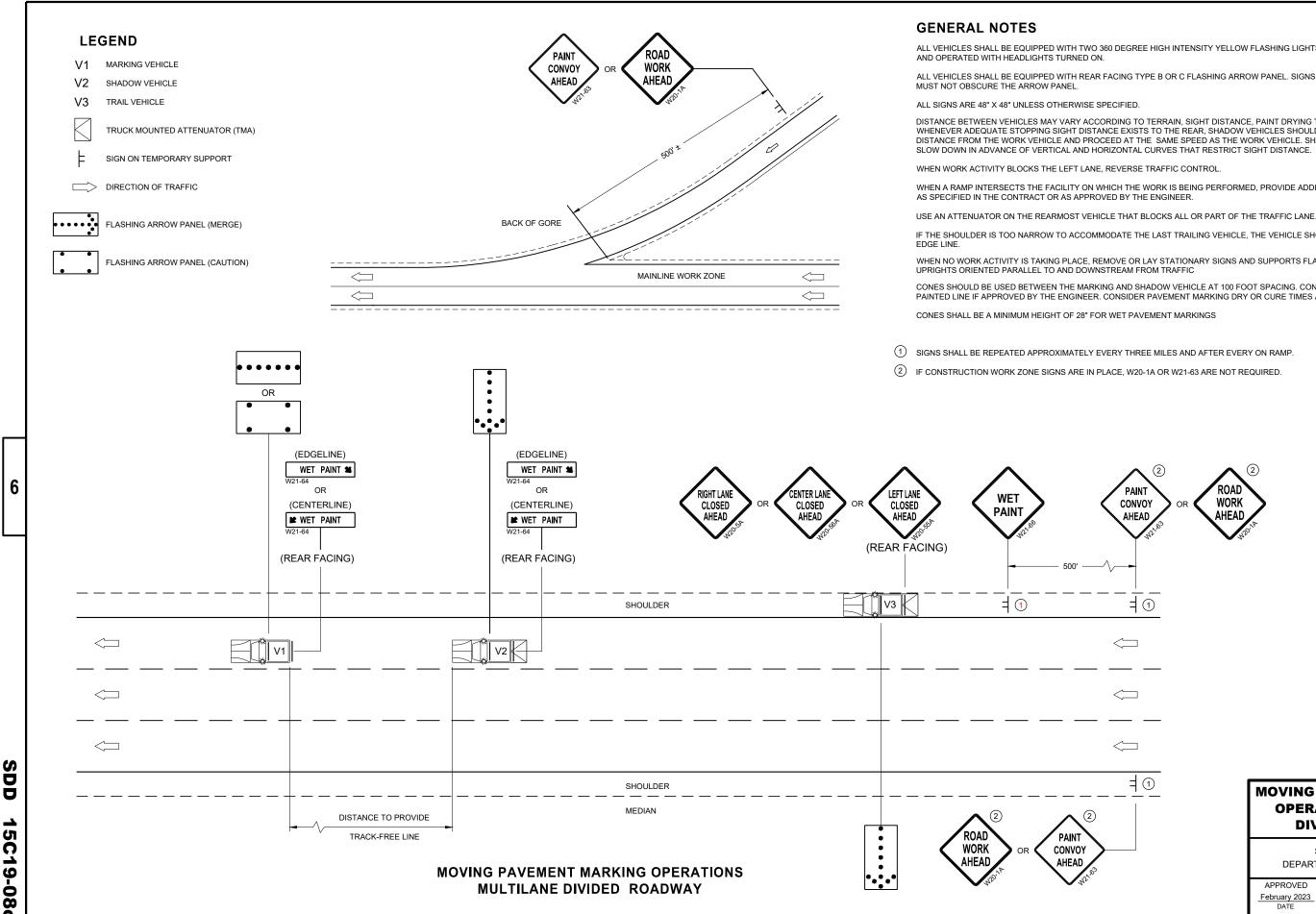
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 6

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ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2

ROAD

WORK

AHEAD

(2)

PAINT

AHEAD

= 1

= 1

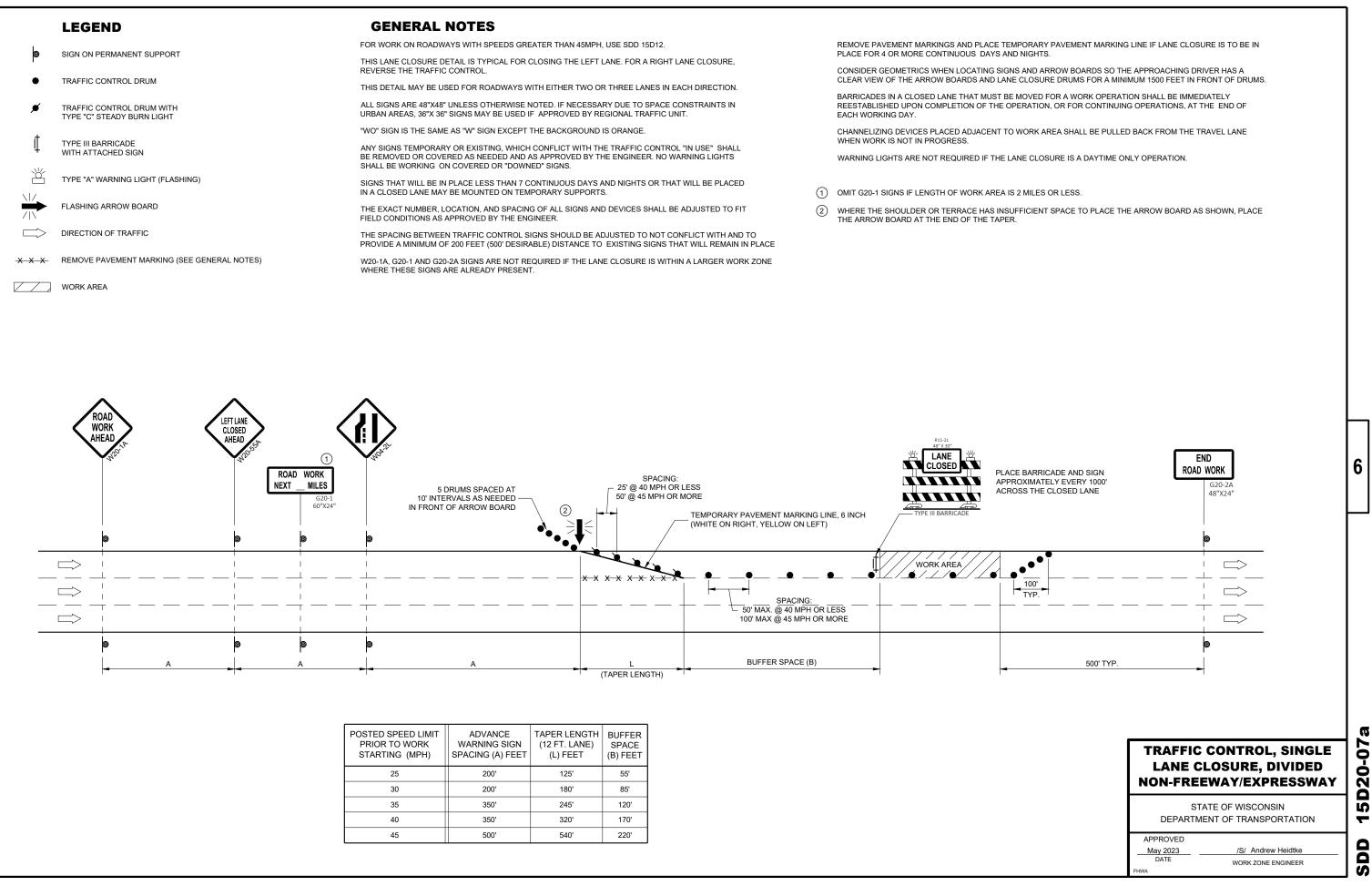


STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2023 DATE

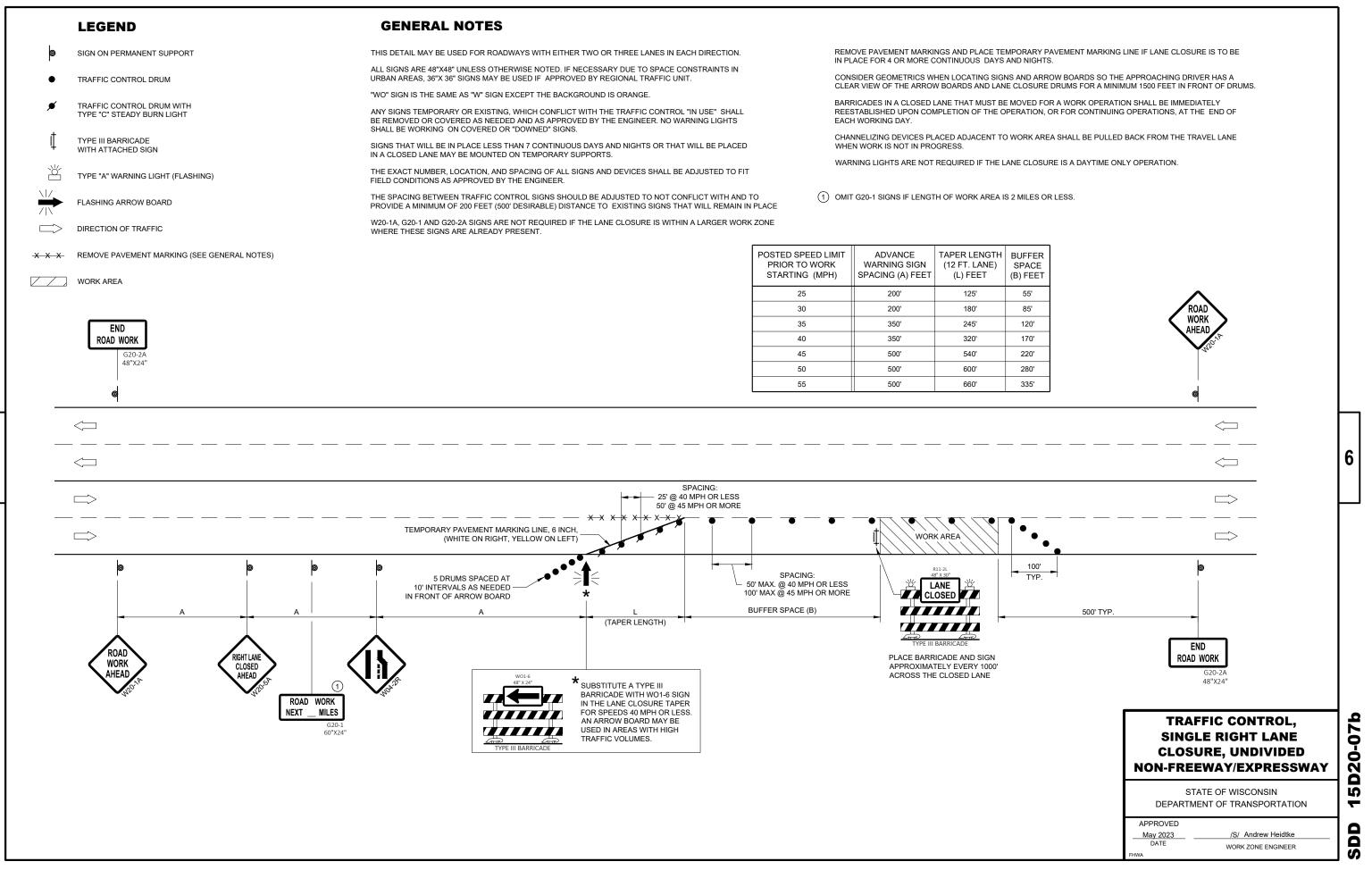
/S/ Andrew Heidtke WORK ZONE ENGINEER 6

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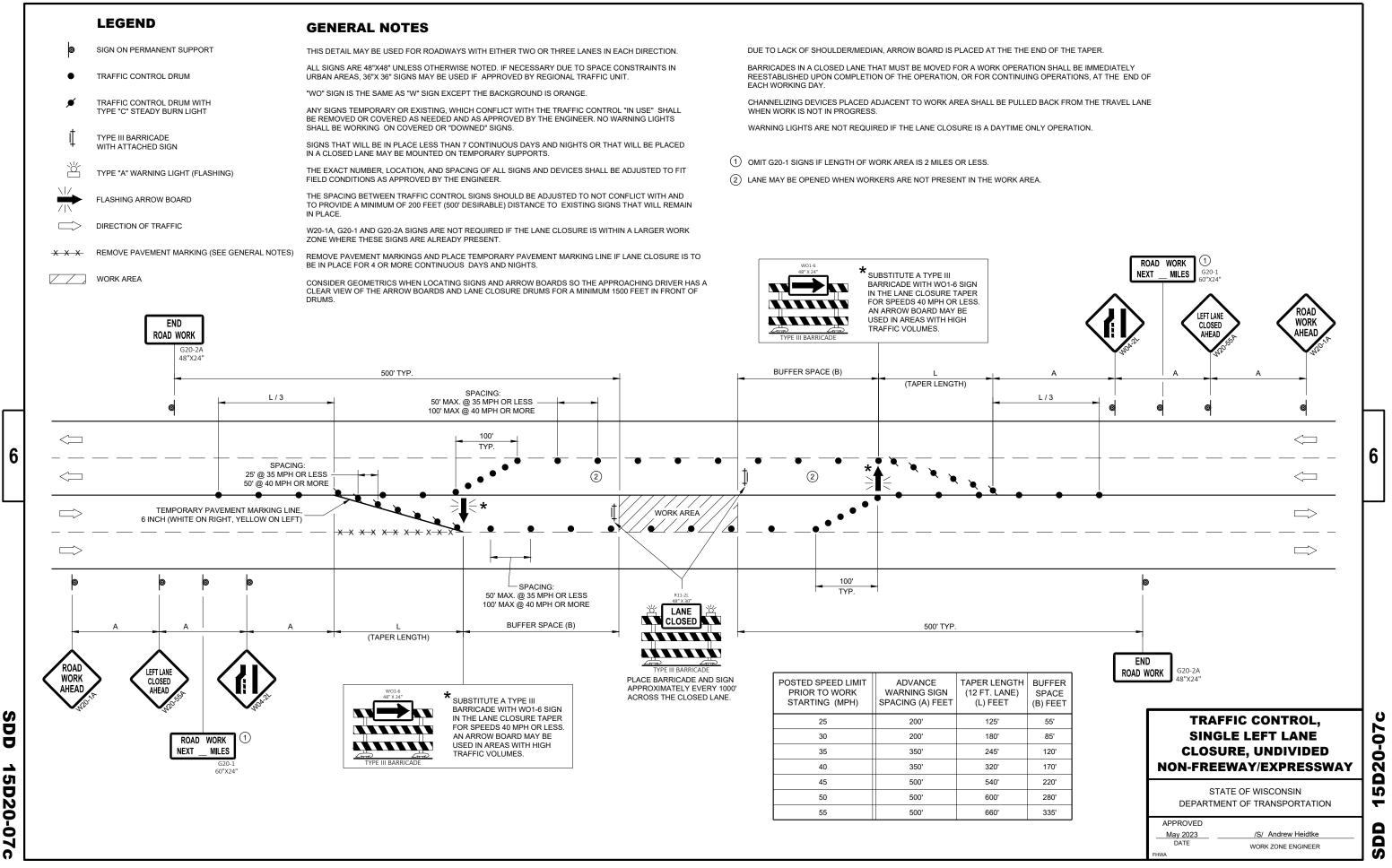


| POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH) | ADVANCE WARNING SIGN SPACING (A) FEET | TAPER LENGTH (12 FT. LANE) (L) FEET | BUFFER SPACE (B) FEET |
|---|---|---|-----------------------------|
| 25 | 200' | 125' | 55' |
| 30 | 200' | 180' | 85' |
| 35 | 350' | 245' | 120' |
| 40 | 350' | 320' | 170' |
| 45 | 500' | 540' | 220' |

SDD **15D20-0** -Q

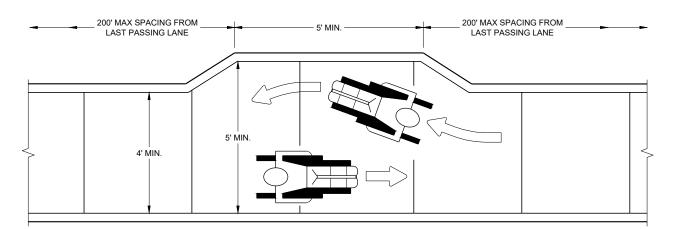


SDD 15D20-07b

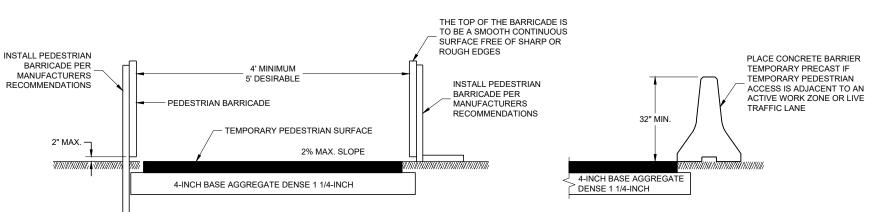


15D20-0 N **n**





NARROW SIDEWALK PASSING DETAIL

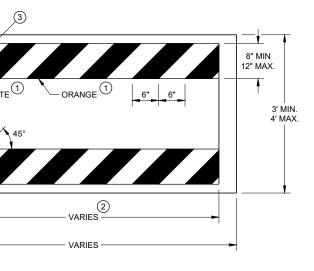


TEMPORARY PEDESTRIAN ACCESS



BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- (3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

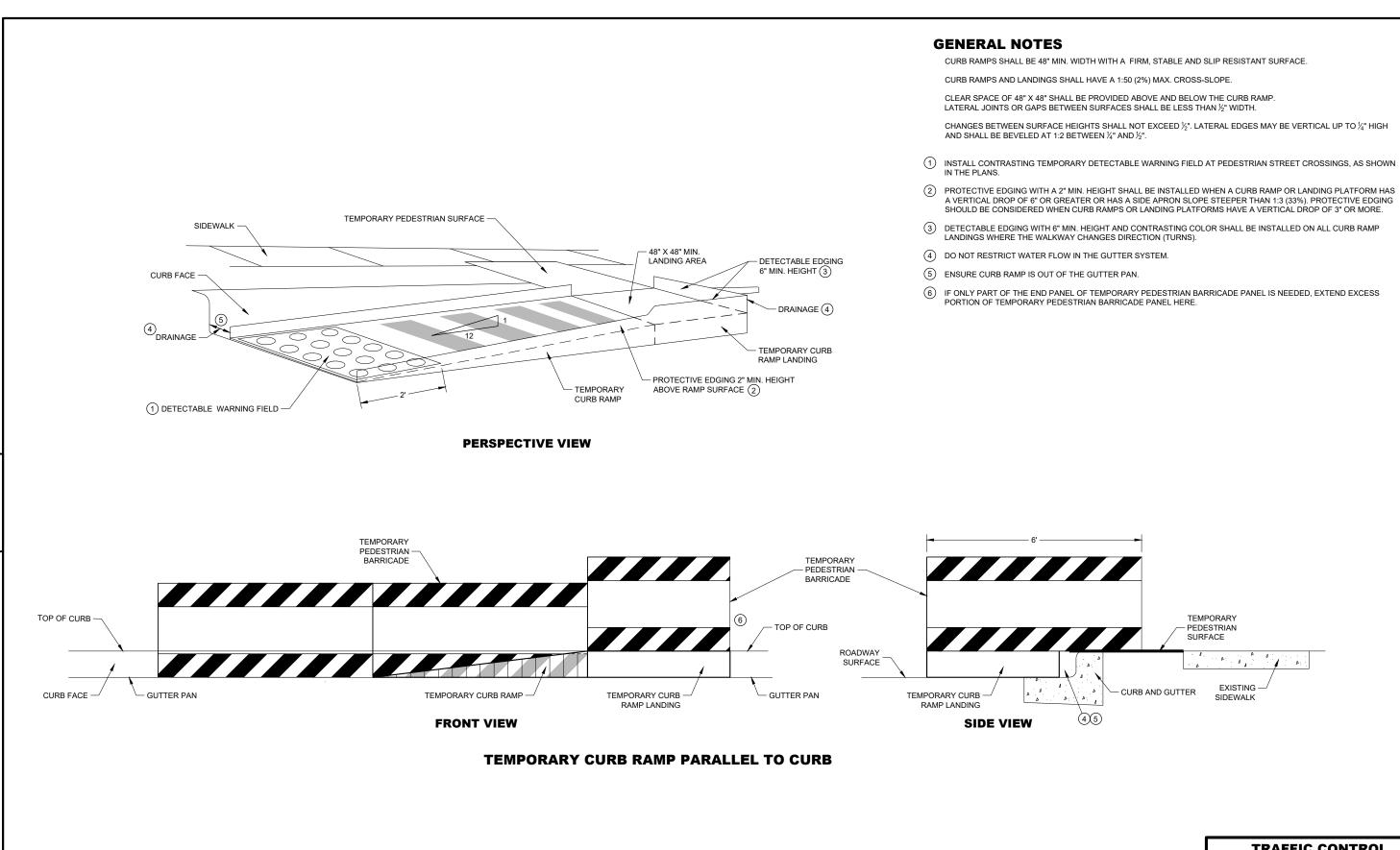


TEMPORARY PEDESTRIAN BARRICADE*

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

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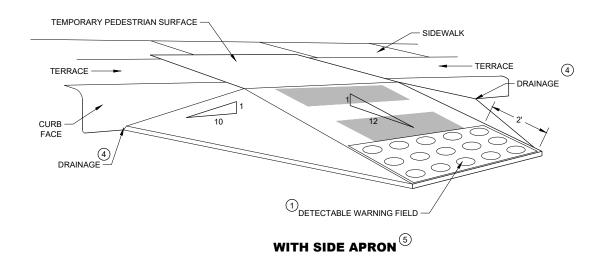
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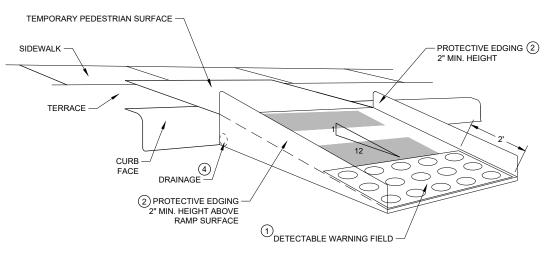
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

- AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
- THE PLANS
- LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.





WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN $\ensuremath{\frac{1}{2}}$ " width.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN

(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.

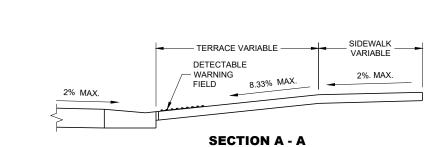
(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP

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TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





TERRACE VARIABLE

____ 10% MAX.

└─ 10% MAX.

А

4' - 0" MIN.

5' - 0" DES.

TEMPORARY SIDEWALK

4' MIN.

PLAN VIEW TEMPORARY TYPE 3 RAMP (OUTSIDE OF CROSSWALK AREA)

DETECTABLE

WARNING FIELD

Α

PROVIDE 48" X 48" MIN. LANDING - AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

IEMPORARY SIDEWALK

TERRACE VARIABLE

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

6

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TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

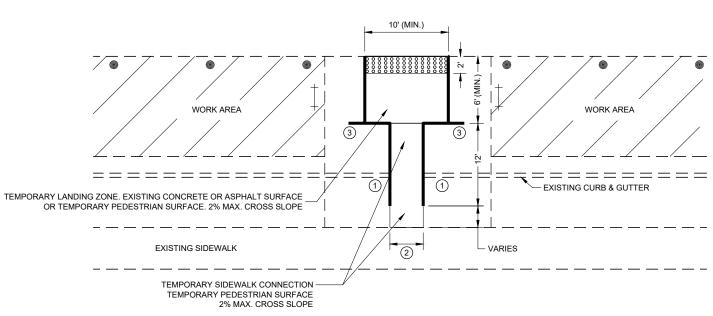
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO $\frac{1}{4}$ " HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

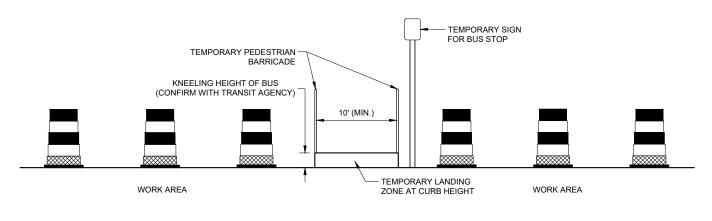
CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

1 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

- (3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.







PROFILE VIEW TEMPORARY BUS STOP PAD



6

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

LEGEND



TRAFFIC CONTROL DRUM



TYPE III BARRICADE

TEMPORARY PEDESTRIAN BARRICADE



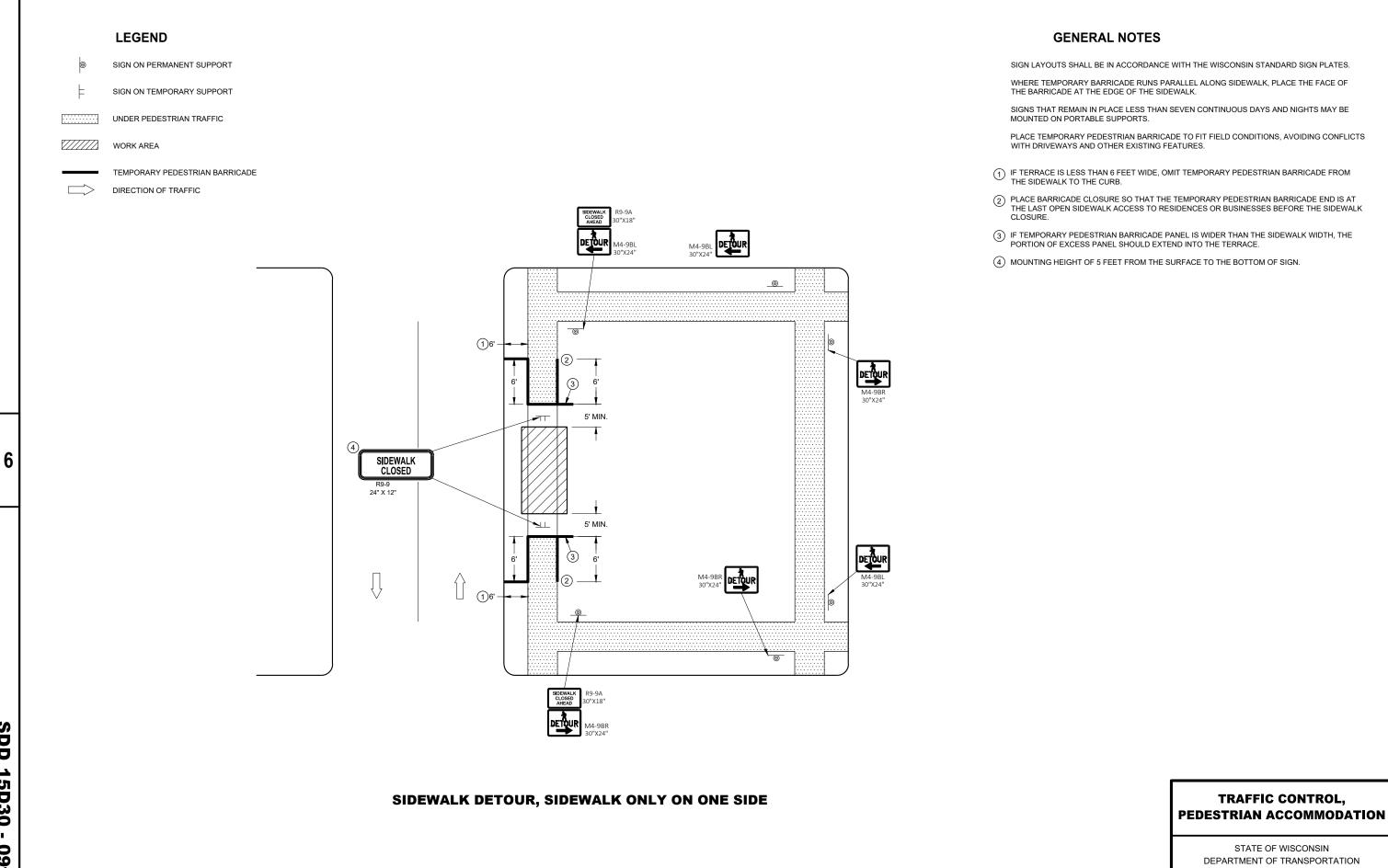
TEMPORARY DETECTABLE WARNING FIELD

WORK AREA

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TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



| l | EGEND | | | GEN |
|-----------------|--|--|--|--|
| ⊨ s | IGN ON TEMPORARY SUPPORT | | | TYPICAL TEMPOR |
| <u>//////</u> w | ORK AREA | | | SIGN LAYOUTS SH |
| | | | | WHERE TEMPORA THE BARRICADE A |
| ······ | NDER PEDESTRIAN TRAFFIC | | | SIGNS THAT REMA MOUNTED ON POP |
| Т | EMPORARY PEDESTRIAN SURFACE | | | |
| | EMPORARY PEDESTRIAN BARRICADE | | | 1 USE TEMPORARY OR FOR ADDITION |
| | PTIONAL TEMPORARY PEDESTRIAN BARRICADE | | | (2) IF TEMPORARY PE PORTION OF EXCE |
| | | | | (3) MOUNTING HEIGH |
| | | | 3 M4-60L 3 M4-60L 3 M4-60L 3 M4-60L 3 M4-60L 3 M4-60L 3 M4-60L 3 M4-60L 5 MIN. 5 MIN. | |

SIDEWALK DIVERSION SINGLE SIDE

SENERAL NOTES

IPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

S SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

PORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF ADE AT THE EDGE OF THE SIDEWALK.

REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE I PORTABLE SUPPORTS.

ARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS TIONAL PEDESTRIAN CHANNELIZATION.

RY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.

EIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



LEGEND

WORK AREA

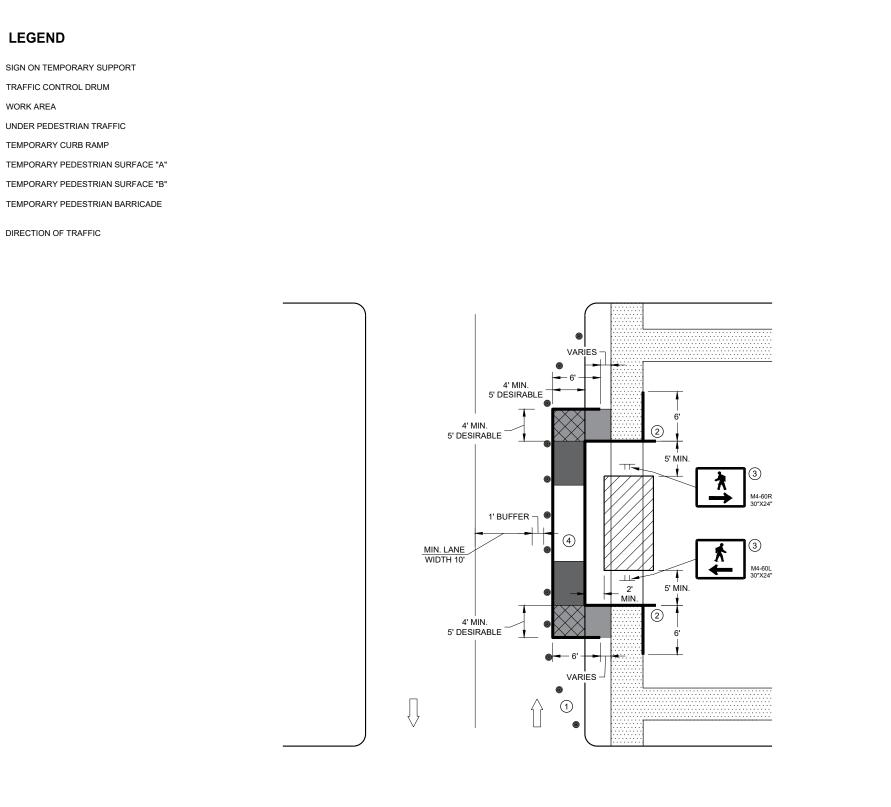
DIRECTION OF TRAFFIC

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SIDEWALK DIVERSION, SINGLE SIDE



TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(2) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

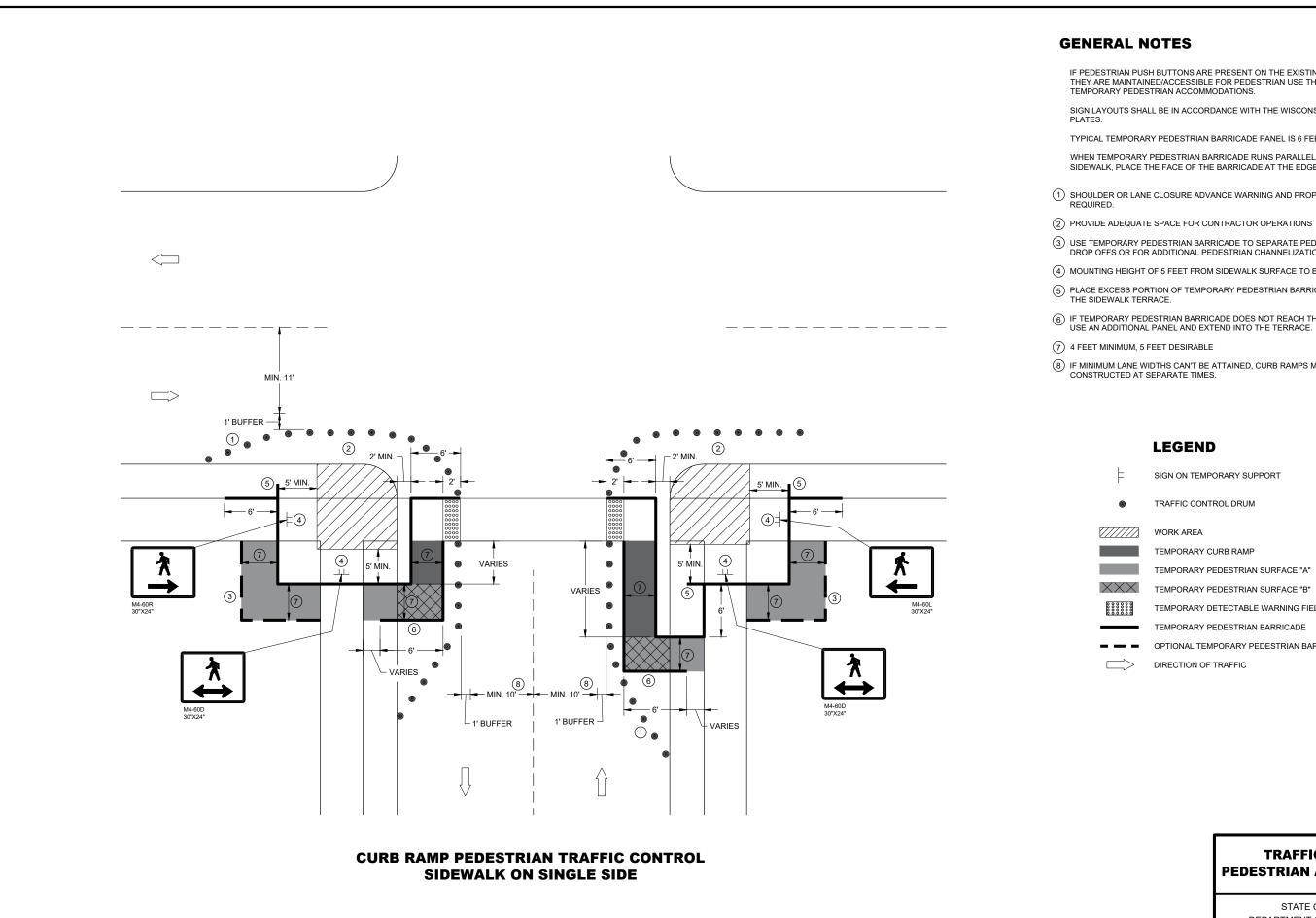
1 Shoulder or lane closure advance warning and buffer space required.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.

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TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

5 PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN

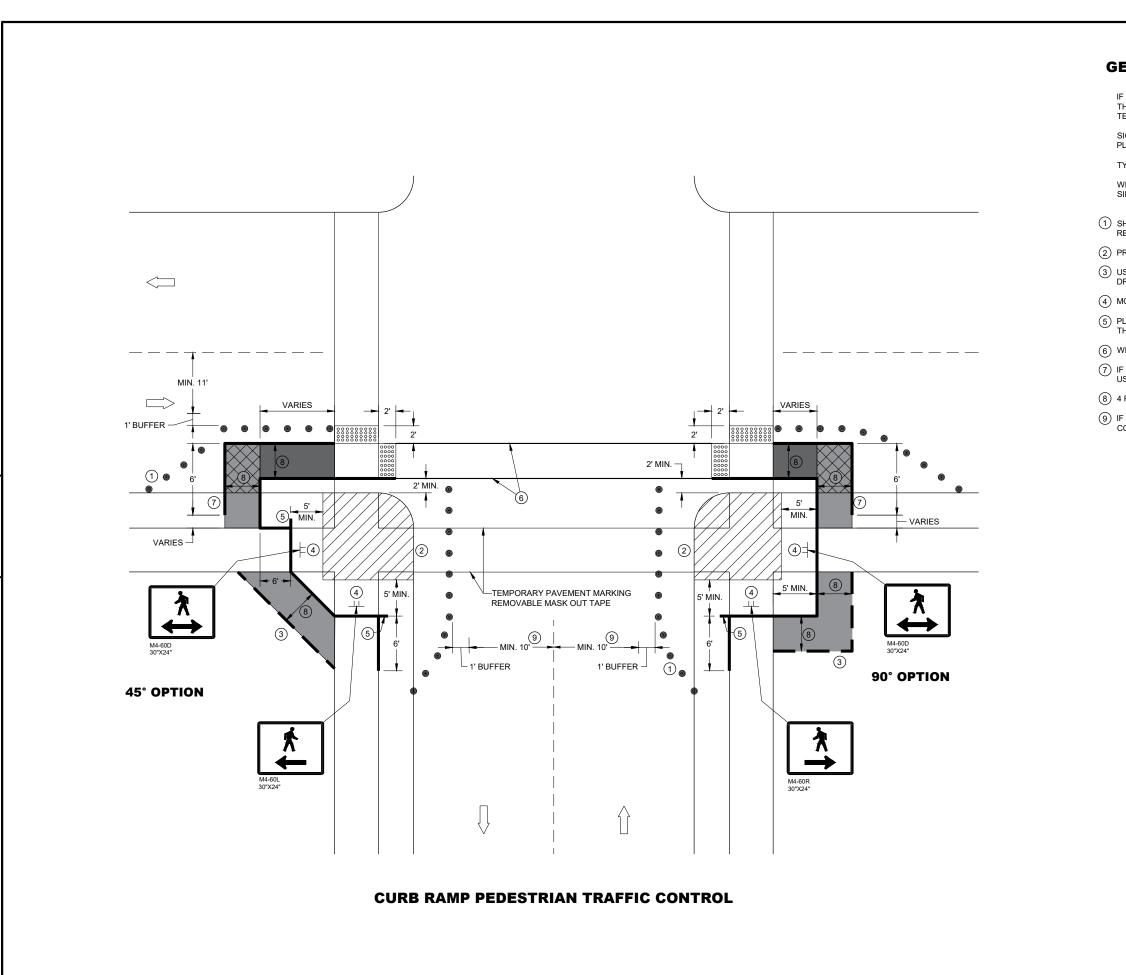
(6) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

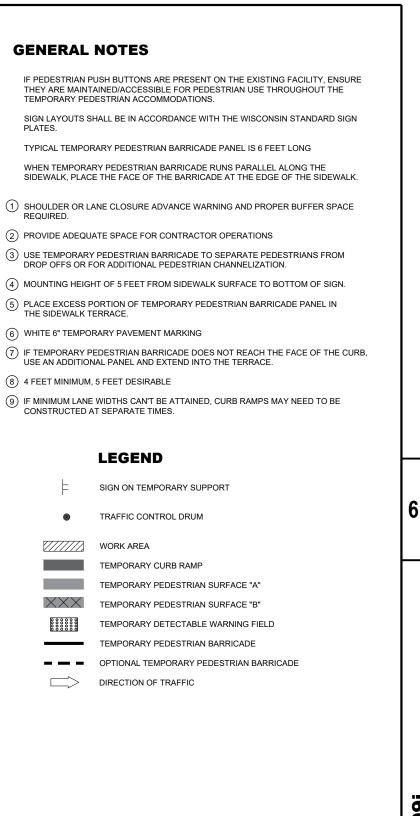
(8) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

| | WORKAREA |
|-----------------------|---|
| | TEMPORARY CURB RAMP |
| | TEMPORARY PEDESTRIAN SURFACE "A" |
| $\langle X X \rangle$ | TEMPORARY PEDESTRIAN SURFACE "B" |
| | TEMPORARY DETECTABLE WARNING FIELD |
| | TEMPORARY PEDESTRIAN BARRICADE |
| | OPTIONAL TEMPORARY PEDESTRIAN BARRICADE |
| \Box | DIRECTION OF TRAFFIC |
| | |

TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

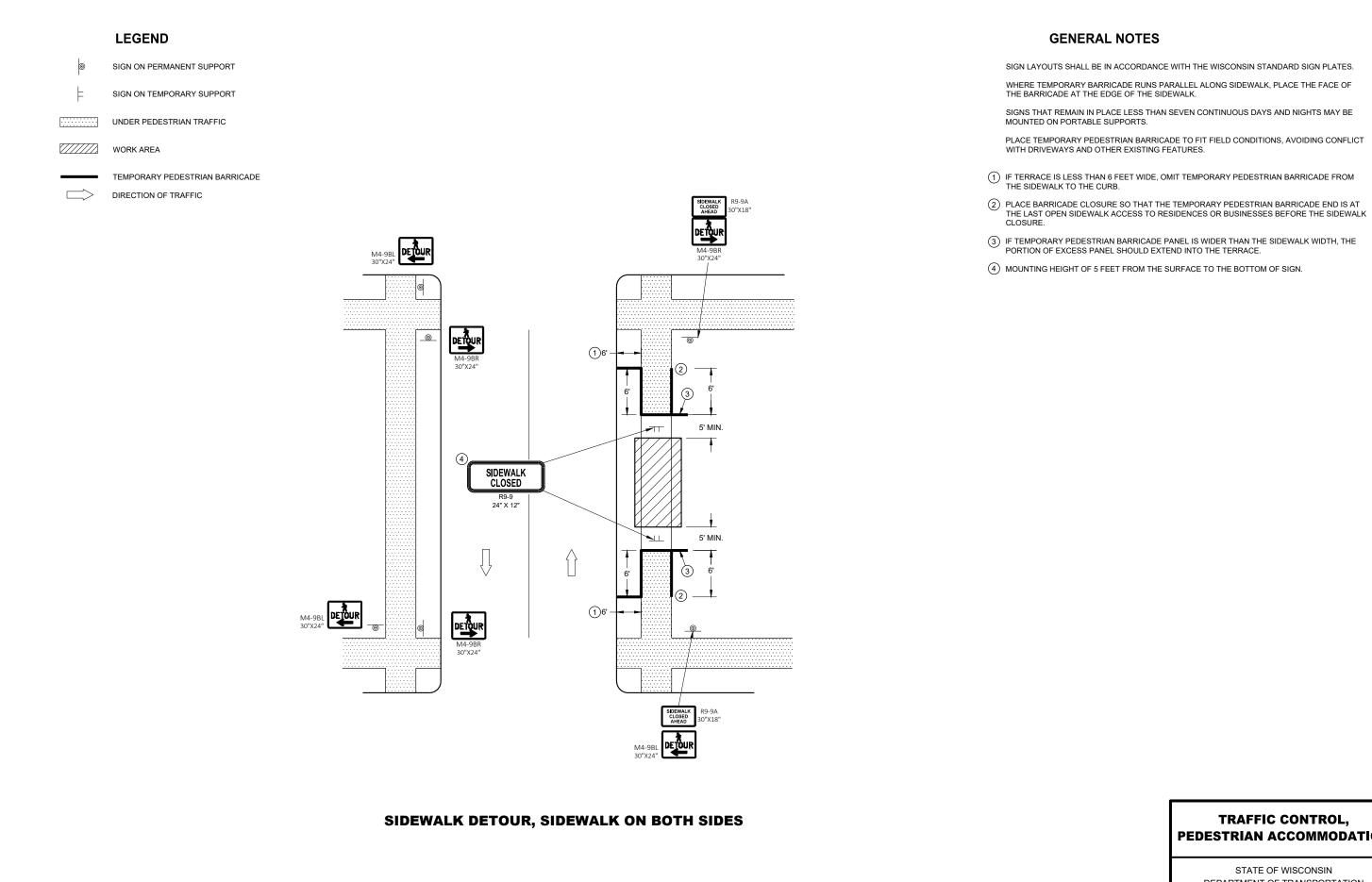
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

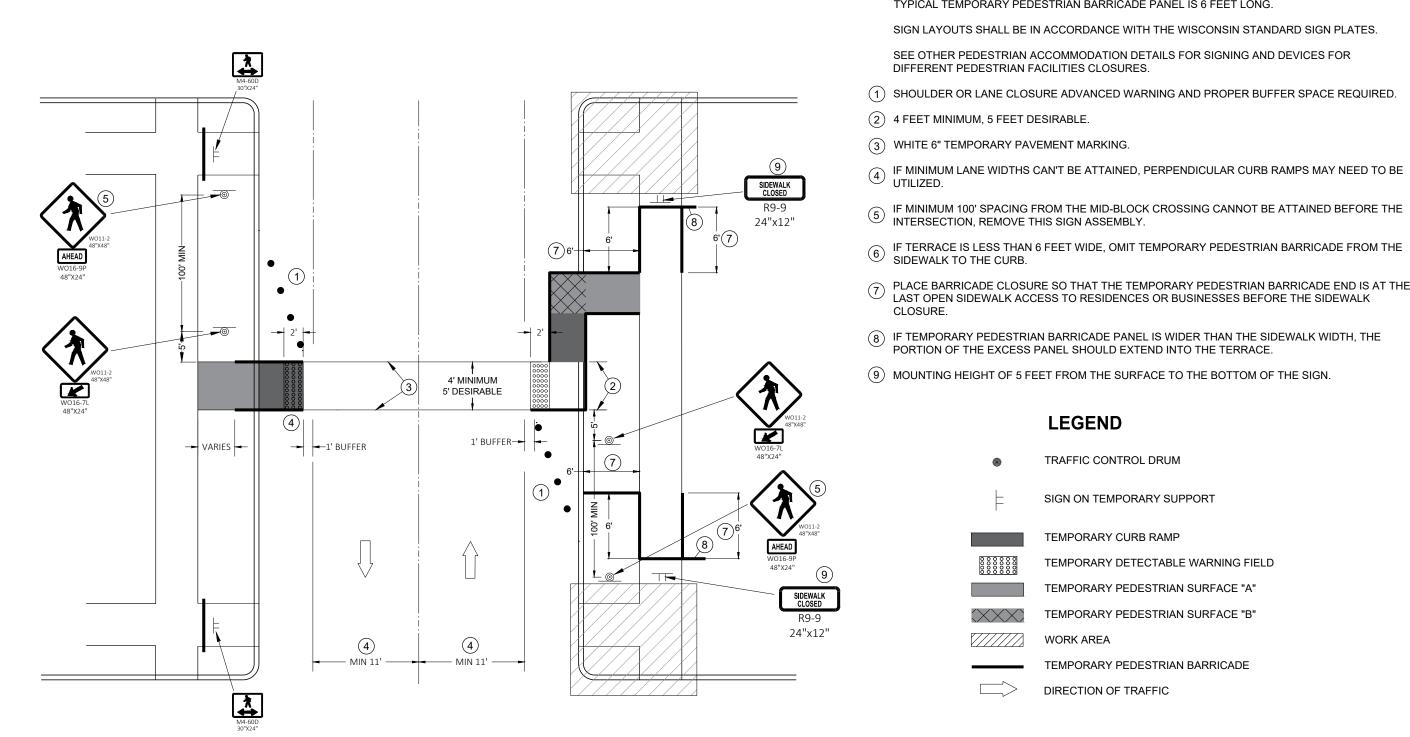


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TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES



TEMPORARY PEDESTRIAN CROSSING

6

- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.
- SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR
- (1) SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
- $_{\mbox{(5)}}$ IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
 - IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE
- 1 place barricade closure so that the temporary pedestrian barricade end is at the last open sidewalk access to residences or businesses before the sidewalk
- $\ensuremath{(8)}$ IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE

- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- **TEMPORARY PEDESTRIAN SURFACE "A"**
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

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TRAFFIC CONTROL, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

ENGINEER.

OR REMOVED AS DIRECTED BY THE ENGINEER.

INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

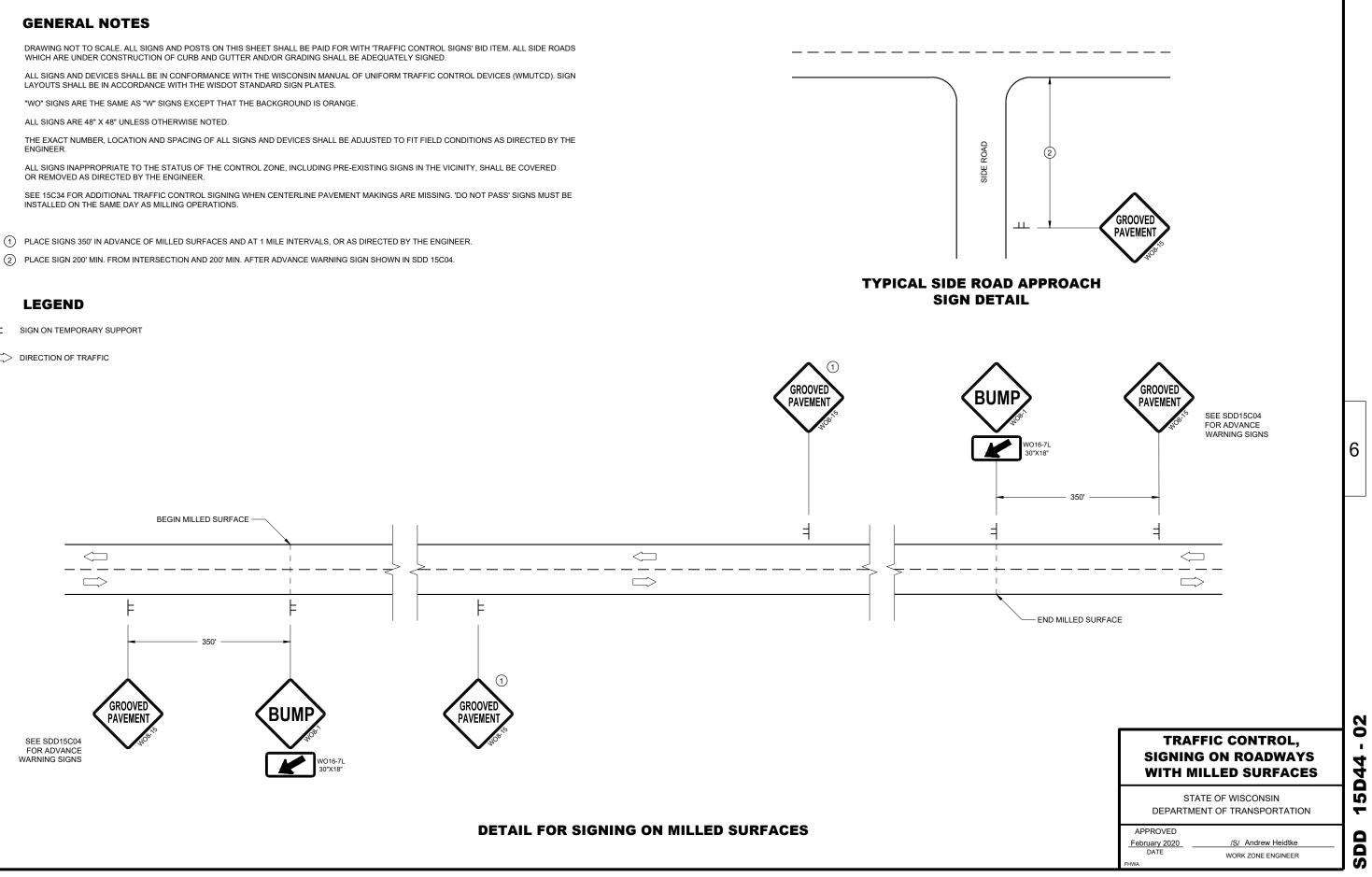
- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

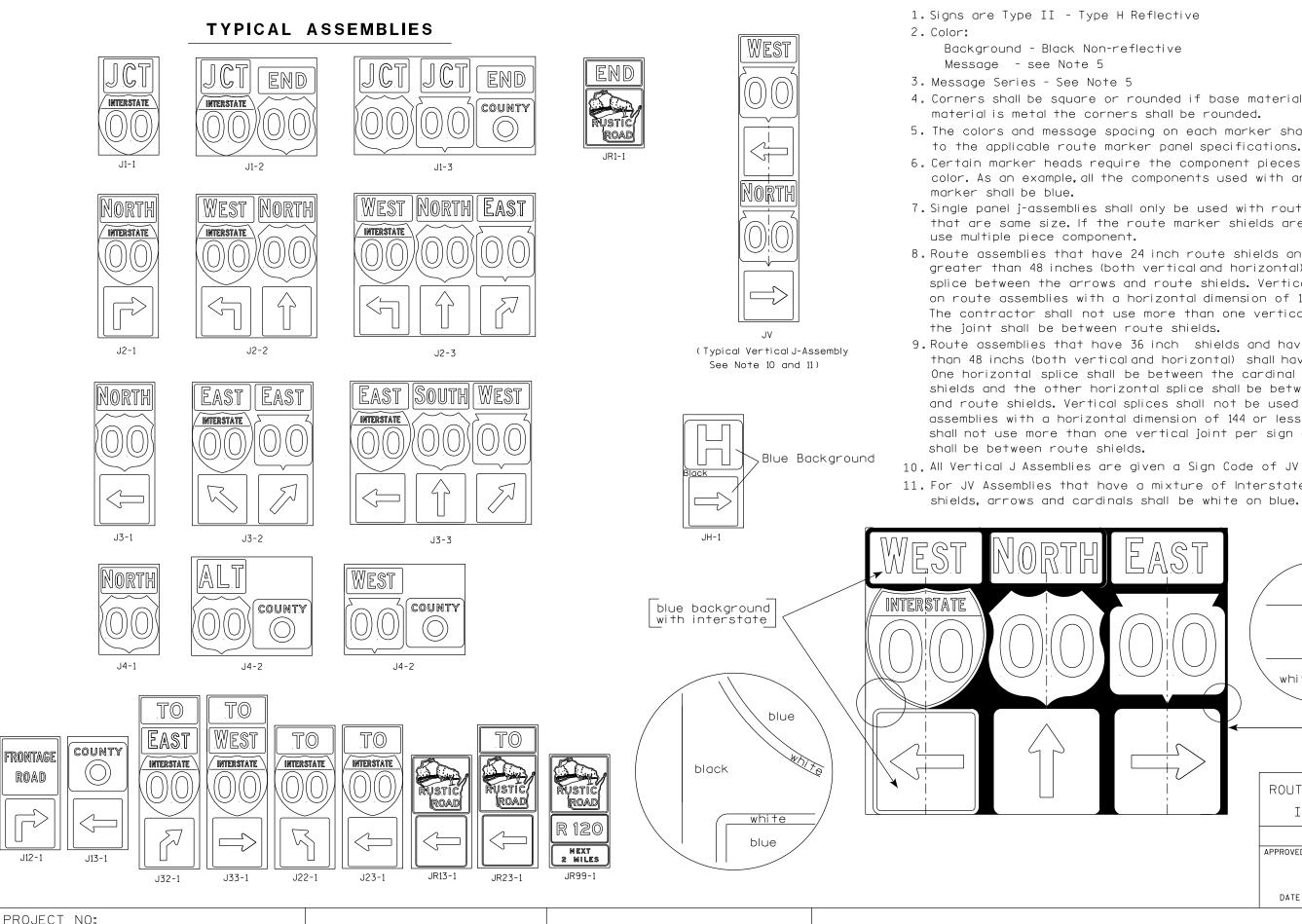
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

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7

PLOT NAME :

NOTES

4. Corners shall be square or rounded if base material is plywood. If base

5. The colors and message spacing on each marker shall be according

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

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

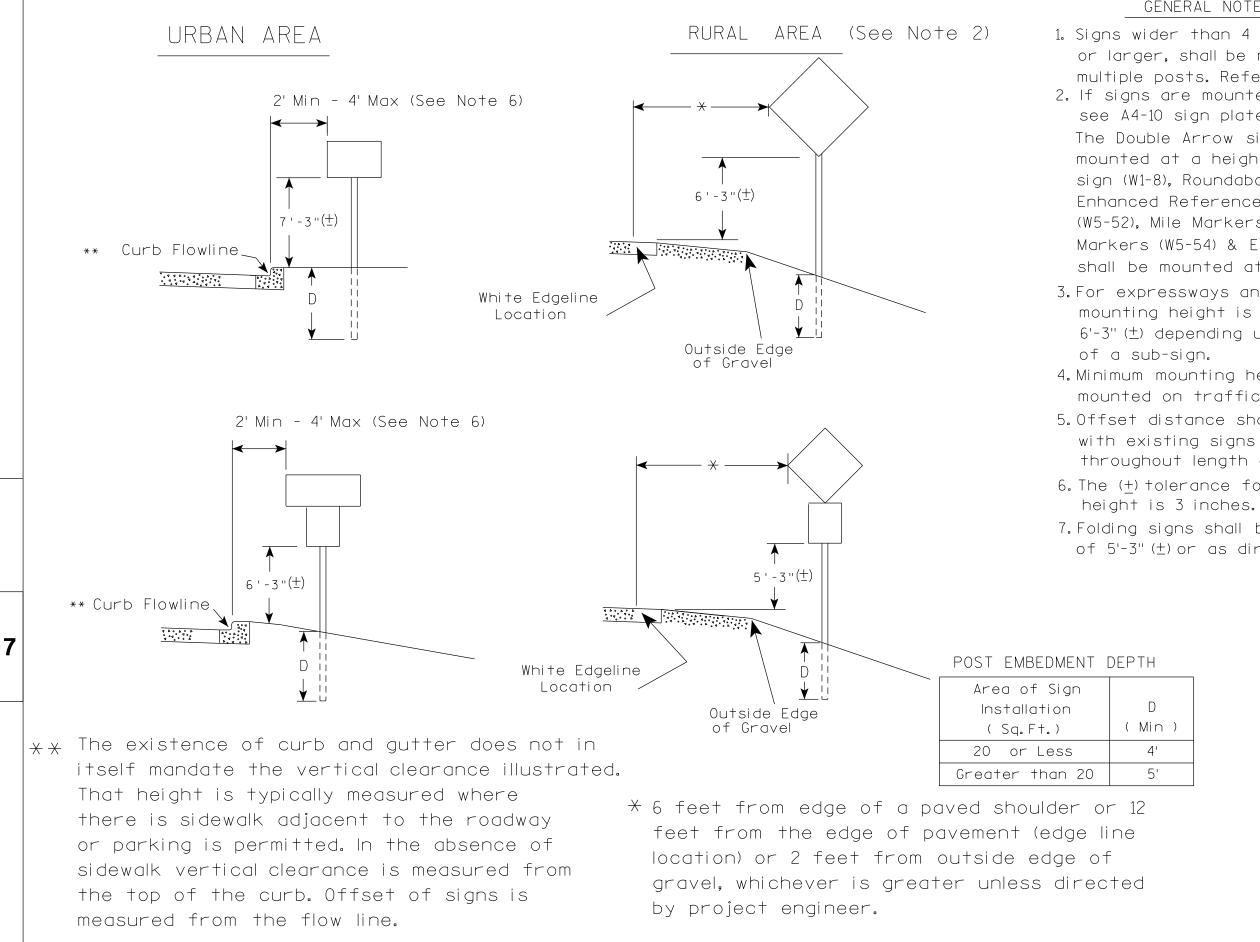
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less.

The contractor shall not use more than one vertical joint per sian and

9. Route assemblies that have 36 inch shields and have dimensions areater 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

11. For JV Assemblies that have a mixture of Interstate and non Interstate

| EAST | | |
|------|--|---|
| | black | 7 |
| | white // | |
| | ROUTE MARKERS & COMPONENTS | |
| | IN TYPICAL ASSEMBLIES WISCONSIN DEPT OF TRANSPORTATION | |
| | APPROVED Mutther R Rauch For State Traffic Engineer | |
| | DATE PLATE NO A2-15.9 | |
| | SHEET NO: E | |

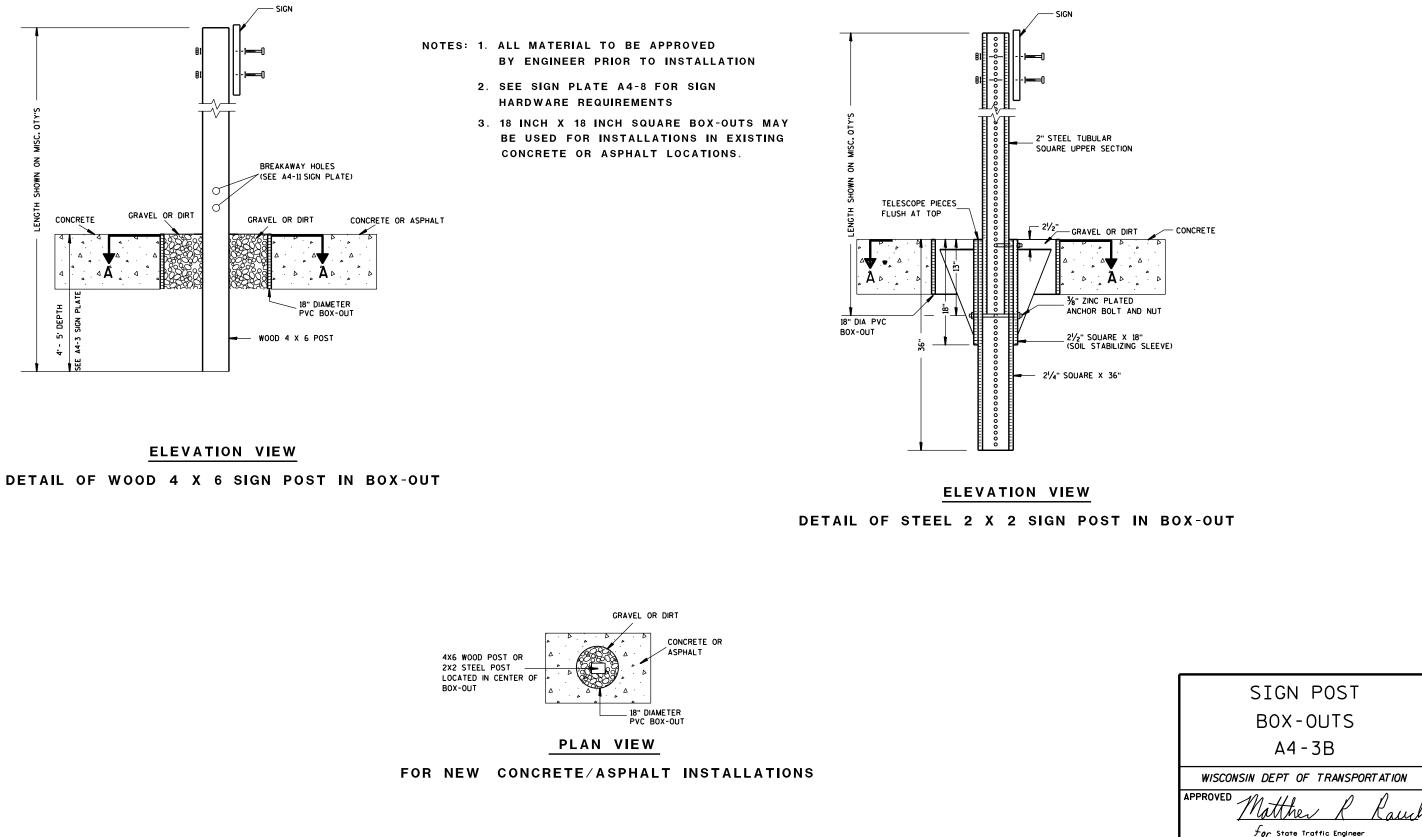


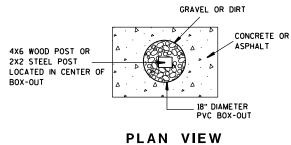
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| | | | DI AT DITE : 47 HUN 0000 4 4 | DI OT DY IN IO | DLOT NAME - |

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. The Double Arrow sign (W12-1D) shall be mounted at a height of $2'-3''(\pm)$. The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (+). 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or $6'-3''(\pm)$ depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.

|) | |
|-------------------|--|
| | TYPICAL INSTALLATION |
| | OF PERMANENT TYPE II |
| | SIGNS ON SINGLE POSTS |
| | WISCONSIN DEPT OF TRANSPORTATION |
| | APPROVED Matthew & Rauch For state Traffic Engineer |
| | DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u> |
| | SHEET NO: E |
| PLOT SCALE : \$\$ | WISDOT/CADDS SHEET 42 |





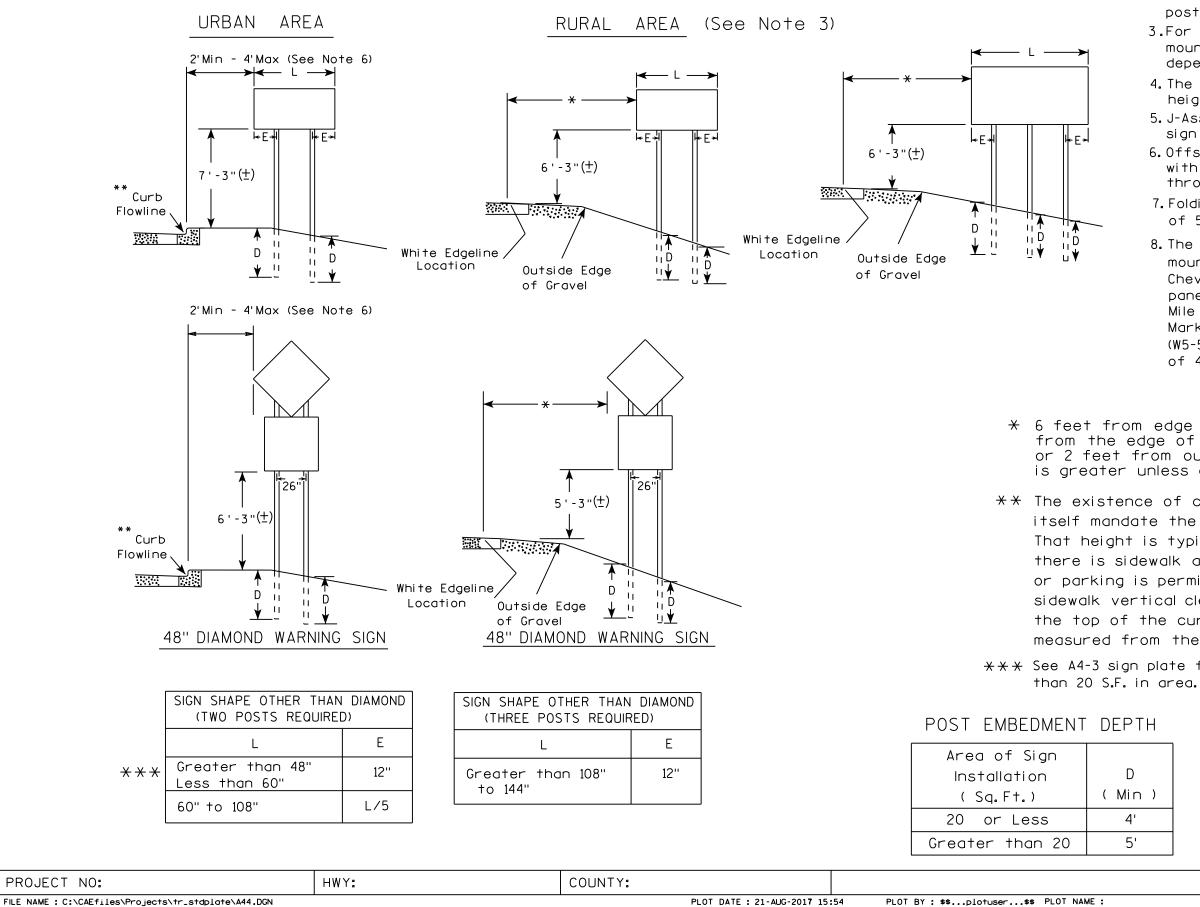
| PROJECT NO: | HWY: | COUNTY: | | | | |
|---|------|---------|------------------------------|---|------------------|-------------|
| FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN | | | PLOT DATE : 27-JAN-2014 09:4 | 8 | PLOT BY : mscsja | PLOT NAME : |

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

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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 $7'-3''(\pm)$ or $6'-3''(\pm)$ depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (\pm) 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.

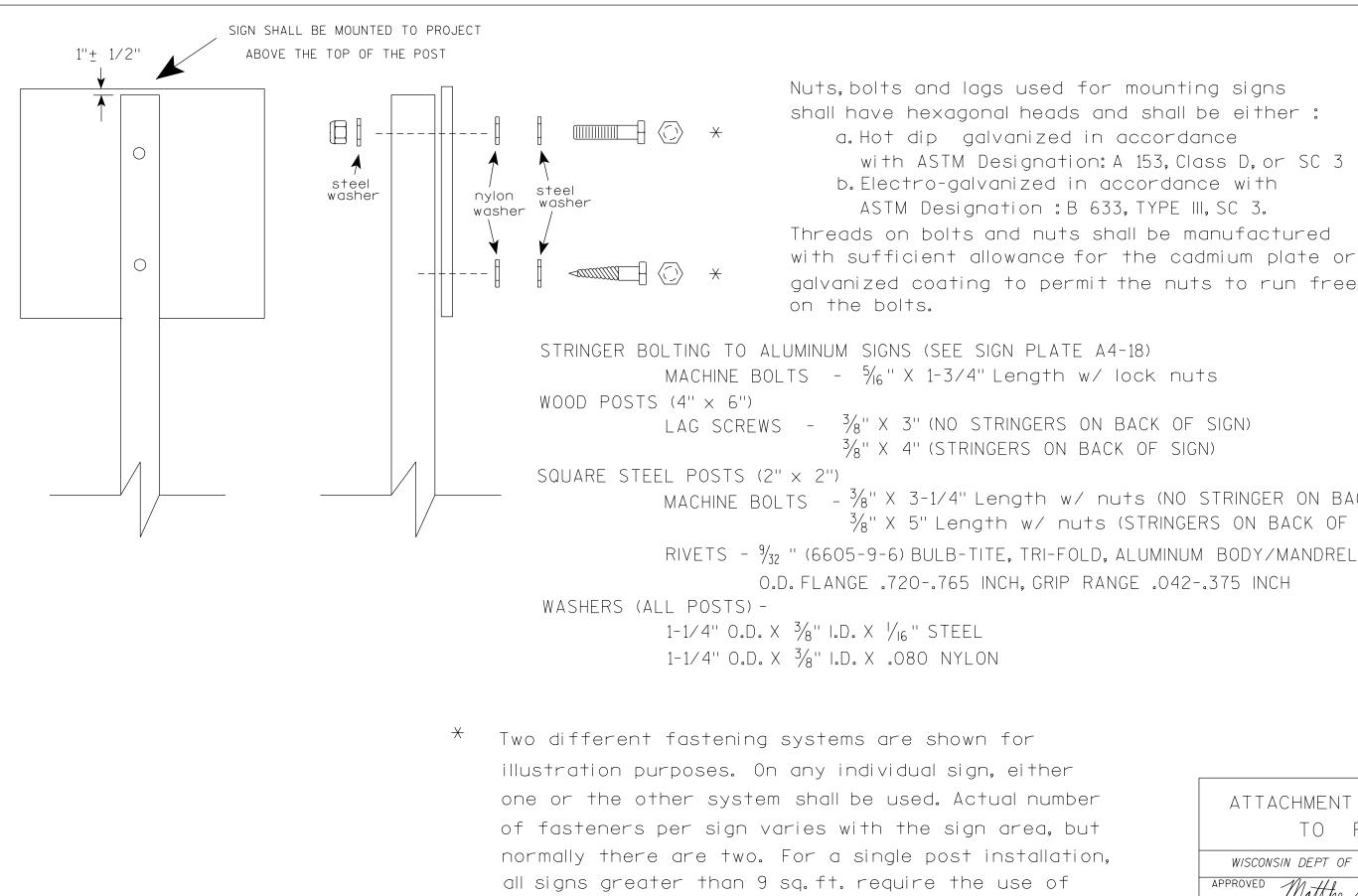
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

 \times \times See A4-3 sign plate for signs 4' or less in width and less

| H | TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS |
|-----------|---|
|) | WISCONSIN DEPT OF TRANSPORTATION |
| , | APPROVED Matther & Rauch |
| | For State Traffic Engineer |
| | DATE 8/21/17 PLATE NO. 44-4.15 |
| | SHEET NO: E |
| DI AT. CA | L 5 - 100 100007-1 00000 |

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



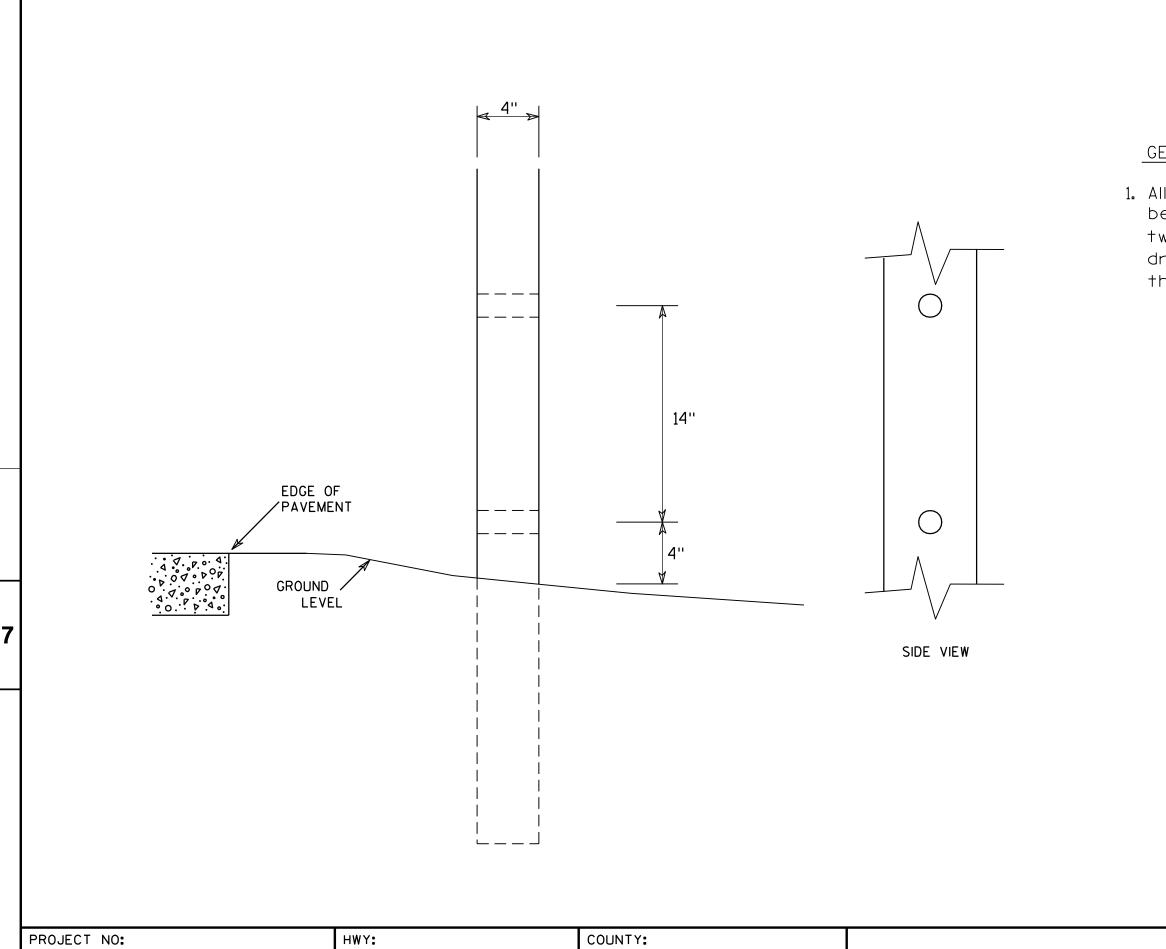
3 fasteners.

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

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

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)

| ATTACHMENT OF SIGNS TO POSTS |
|---|
| WISCONSIN DEPT OF TRANSPORTATION |
| APPROVED Matthew R Rauch |
| For State Traffic Engineer |
| DATE <u>4/1/202</u> 0 plate no. <u>A4-8.9</u> |
| SHEET NO: E |

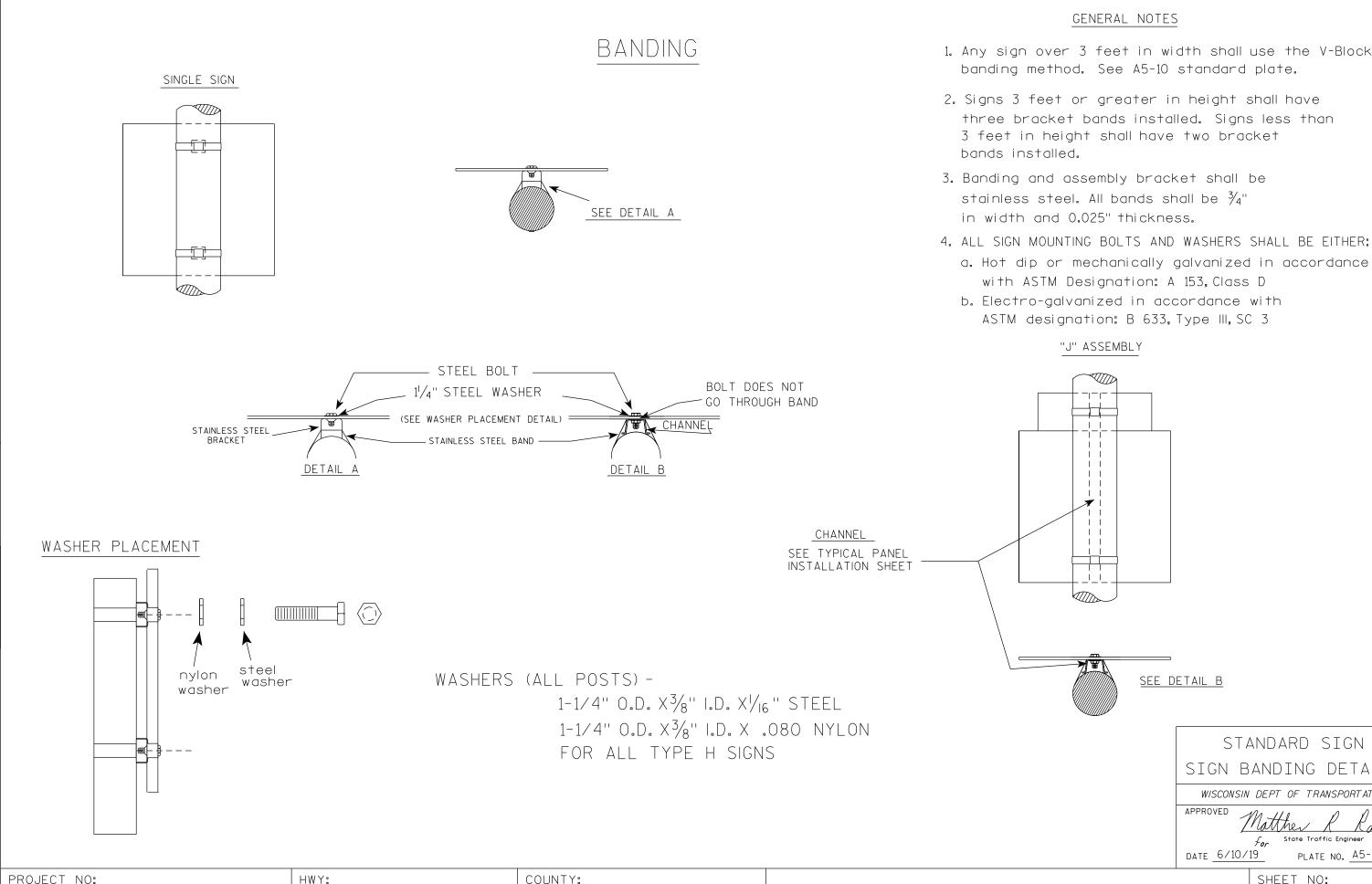


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GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

| | 4 | Хe | ô | WOO | DF | POST | |
|----------|--------------------|----------|-----------|----------|----------|----------------|------|
| | | MOD | IF | FICA | TI | SNC | |
| | WISC | onsin l | DEF | PT OF T | RANSI | PORTATION | ' |
| | APPROVE | D | | hester . | Γέ | Spang | |
| | | | tor | State Tr | affic Er | ngineer | |
| | DATE 3 | /27/9 | <u>17</u> | PLA | TE NO | <u>A4-11.2</u> | 2 |
| | | | 9 | SHEET | N0: | | Ε |
| OT SCALE | E:6.20 7 33 | 8:1.0000 | 000 | WISD | от/с | ADDS SHEE | T 42 |



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PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

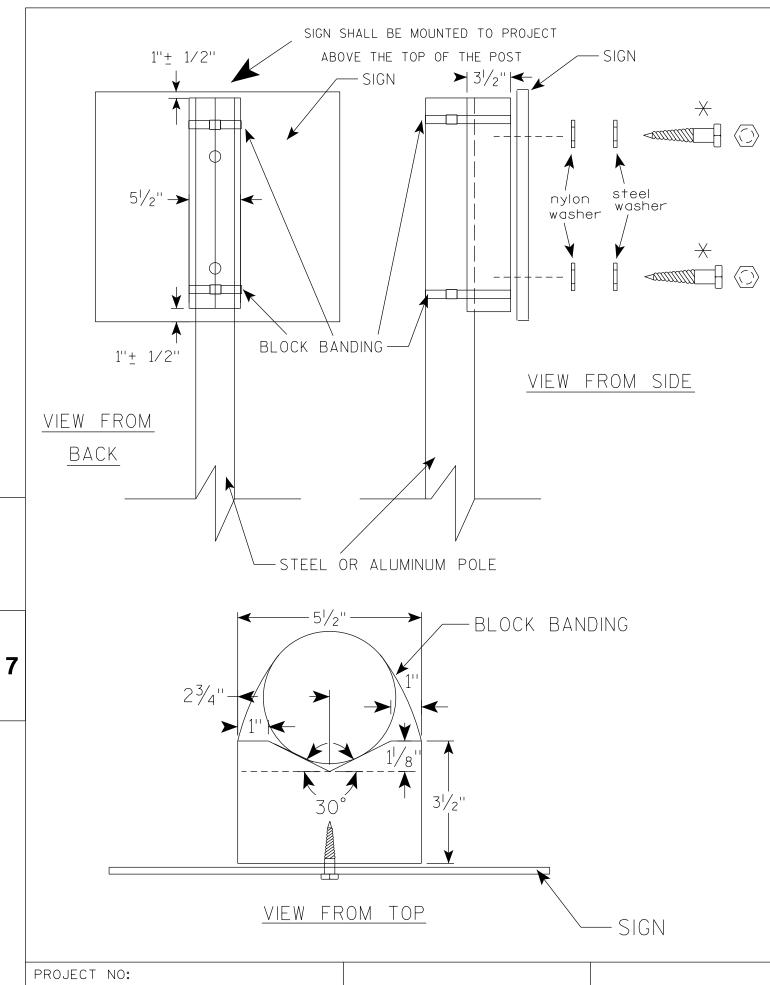
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

| | <u>SEE DETAIL B</u> |
|--------|--|
| | STANDARD SIGN |
| | SIGN BANDING DETAILS |
| | WISCONSIN DEPT OF TRANSPORTATION |
| | APPROVED Matthe Rauch |
| | DATE 6/10/19 PLATE NO. 45-9.4 |
| | SHEET NO: E |
| PLOT S | CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42 |



GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

 \times LAG BOLTS SHALL BE $\frac{3}{8}$ " X 2¹/₂"

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgr

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

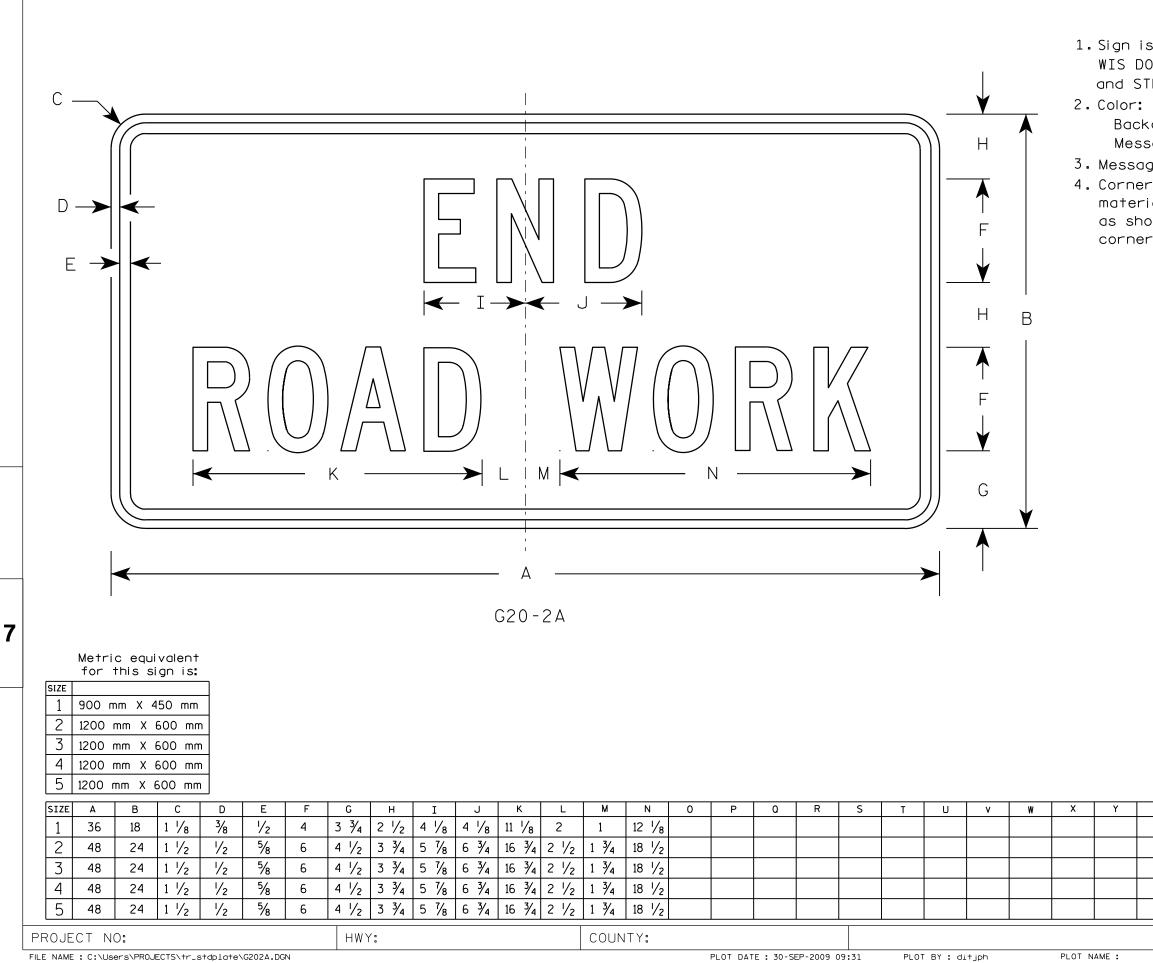
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH

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 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:

8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

| BLOCK BANDING DETAIL (V-BLOCK OPTION) |
|--|
| WISCONSIN DEPT OF TRANSPORTATION |
| APPROVED Matthew R Rauch |
| <i>for</i> State Traffic Engineer |
| DATE <u>4/19/2022</u> plate no. <u>45-10.3</u> |
| SHEET NO: E |
| i i i i i i i i i i i i i i i i i i i |

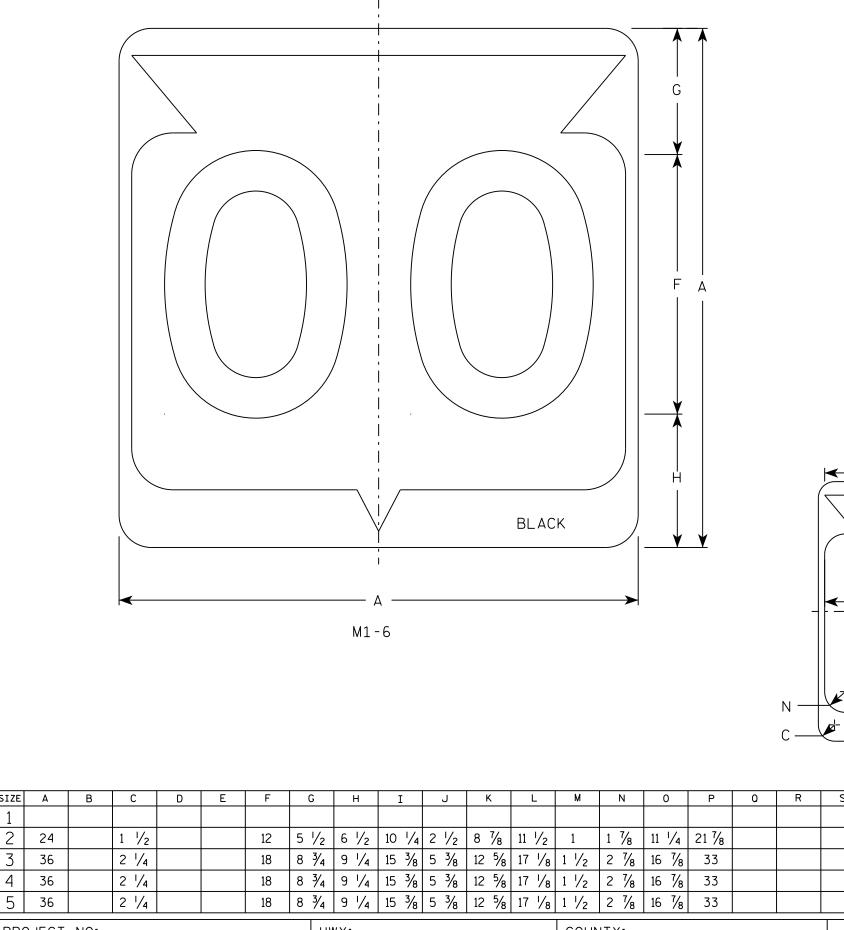
WISDOT/CADDS SHEET 42



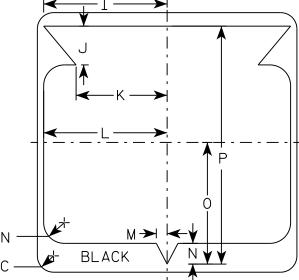
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

Background - Orange Message - Black 3. Message Series - C 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

| Z | Areo sq. ft. | Areo | | S | FANDA F | RD SI(| GN | | | | | | | | |
|---|-----------------|----------|-------------|-----------------|----------------|-------------|-------|-----------|--|--|--|--|--|--|--|
| - | 4 . 5 | 0.41 | | | G20-2A | | | | | | | | | | |
| | 8.0 | 0.72 | | WISCON | RTATION | | | | | | | | | | |
| | 8.0 | 0.72 | | APPROVED | M.# | D | 0 1 | | | | | | | | |
| | 8.0 | 0.72 | | | · · · | ter R Rauch | | | | | | | | | |
| | 8.0 | 0.72 | | DATE <u>9/3</u> | | PLATE NO. | | <u>.8</u> | | | | | | | |
| | | | | | SHEET | NO: | | Ε | | | | | | | |
| | F | PLOT SCA | LE : 5.5617 | 73:1.000000 |) WISE | OT/CADDS | SHEET | 42 | | | | | | | |



- 2.Color:
 - Background White Message – Black

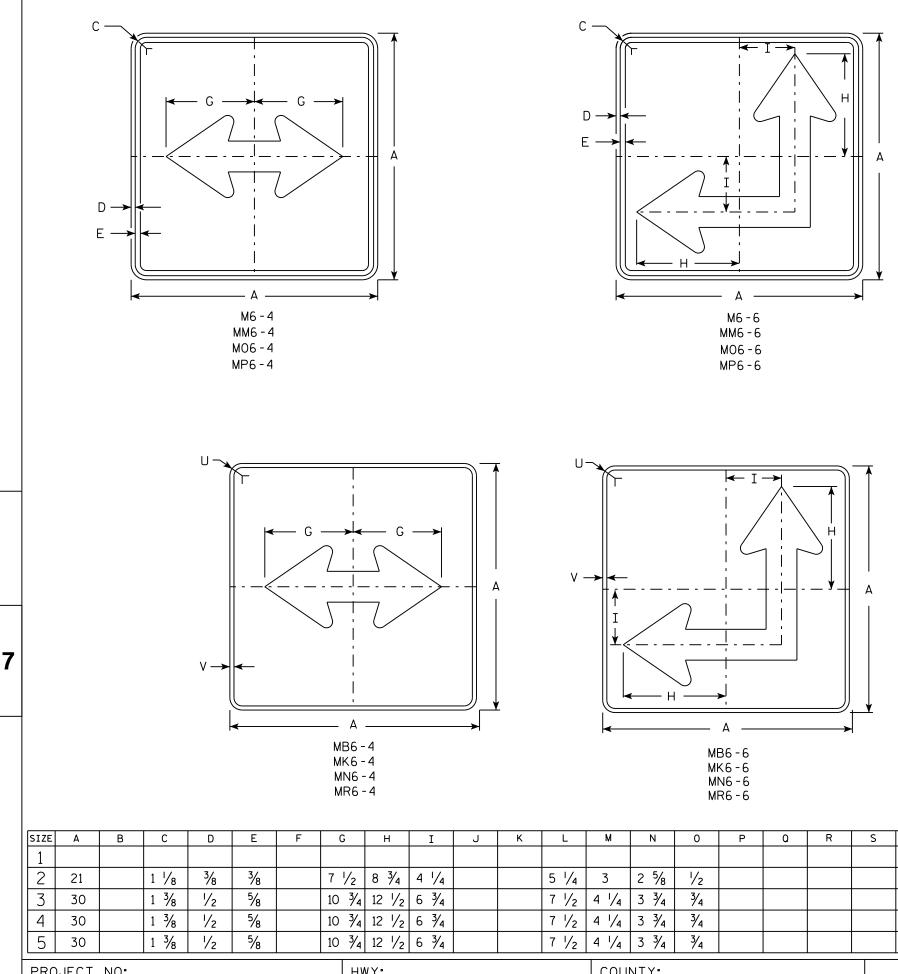


| SIZE | А | В | С | D | E | F | G | н | I | J | к | L | М | N | 0 | Р | ۵ | R | S | Т | U | v | W | Х | Y | _ |
|--------|----------|-----------|-----------|----------|-----------|-------|-------|-------|--------|-------|--------|--------|-------|-------|--------|----------|-----------|-----------|------|------|------------|---------|--------|----------|----|---|
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| PRC | JECT | NO: | | | | | ни | NY: | | | | | COUM | NTY: | | | | | | | | | | | | |
| FILE N | AME : C: | :\CAEfile | es\Projec | ts\tr_st | dplate\M1 | 6.DGN | | | | | | | | | | PLOT DAT | E : 16-M4 | AR-2018 1 | 4:11 | PLOT | BY : \$\$. | plotuse | er\$\$ | PLOT NAM | Ε: | |

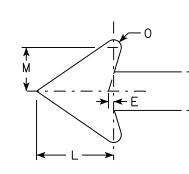
7

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1. Sign is Type II - Type H Reflective
3. Message Series - D except 3 number signs 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.
```

| Z Area sq. ft. | - | | ROUTE MA For Assem | |
|-------------------|--------------|-------------------|------------------------------|----------------|
| 4.0 | | WISCONSIN | DEPT OF TRANSPO | RTATION |
| 9.0 | | APPROVED | Matthew R | Paul |
| 9.0 | | | f_{or} State Traffic Engin | |
| 9.0 | | DATE <u>3/16/</u> | 18 PLATE NO. | <u>M1-6.10</u> |
| | | • | SHEET NO: | E |
| PL | DT SCALE : 6 | .655277:1.000000 | | S SHEET 42 |



- 2. Color: Background - See Note 4 Message - See Note 4
- - MM6-4
 - M06-4

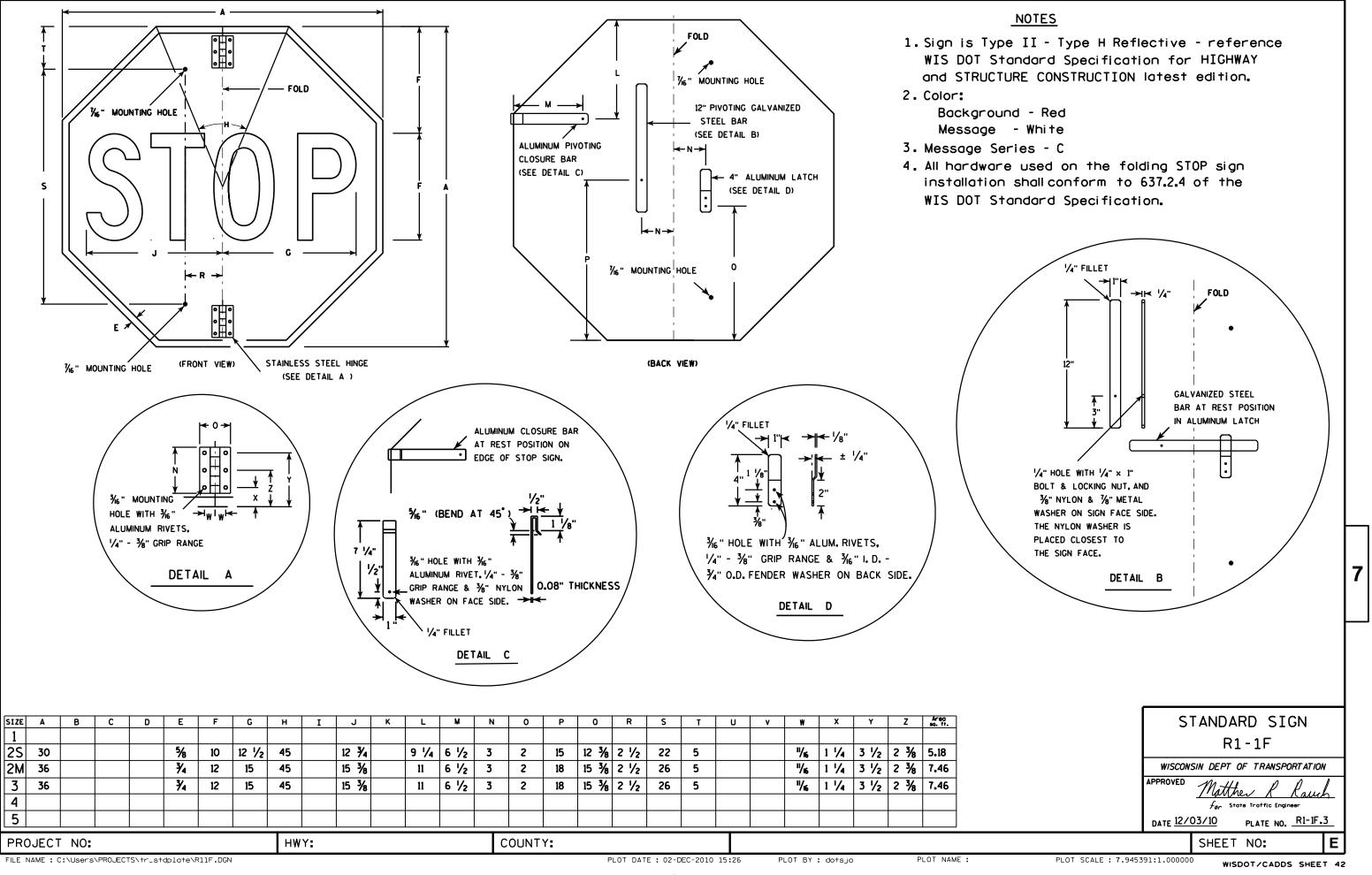


| SIZE | Α | В | С | D | E | F | G | н | I | J | к | L | м | N | 0 | Р | 0 | R | S | Т | U | v | W | х | Y | |
|--------------------------|---|---|-------|-----|-----|---|--------|--------|-------|---|---|-------|----------|----------|-------|------|-------------|---------|-----------|--------|-------|-----|---|---|---|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 21 | | 1 1/8 | 3⁄8 | 3⁄8 | | 7 ½ | 8 3⁄4 | 4 1/4 | | | 5 1/4 | 3 | 2 5/8 | 1/2 | | | | | | 1 1/2 | 1/2 | | | | |
| 3 | 30 | | 1 3/8 | 1/2 | 5% | | 10 3⁄4 | 12 1/2 | 6 3⁄4 | | | 7 1/2 | 4 1/4 | 3 3/4 | 3⁄4 | | | | | | 1 1/8 | 1/2 | | | | |
| 4 | 30 | | 1 3/8 | 1/2 | 5% | | 10 3⁄4 | 12 1/2 | 6 3⁄4 | | | 7 1/2 | 4 1/4 | 3 3/4 | 3⁄4 | | | | | | 1 7/8 | 1/2 | | | | |
| 5 | 30 | | 1 3/8 | 1/2 | 5⁄8 | | 10 3⁄4 | 12 1/2 | 6 3⁄4 | | | 7 1/2 | 4 1/4 | 3 3/4 | 3∕4 | | | | | | 1 7/8 | 1/2 | | | | |
| PROJECT NO: HWY: COUNTY: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FILE | NAME • C•\CAFfiles\Projects\tr_stablate\M64_DCN P | | | | | | | | | | | | TF • 01- | NFC-2015 | 17.58 | PI O | T RY • \$\$ | s nlatu | ISAT \$\$ | PLOT N | AMF : | | | | | |

PLOT DATE . 01-DEC-2015 17-58 olotuser

1. Signs are Type II - Type H except as Shown 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 4. M6-4 and M6-6 Background - White Message - Black MB6-4 and MB6-6 Background - Blue Message - White MK6-4 and MK6-6 Background - Green Message - White and MM6-6 Background - White Message - Green MN6-4 and MN6-6 Background - Brown Message - White and M06-6 Background - Orange - Type F Reflective Message - Black MP6-4 and MP6-6 Background - White Message - Blue MR6-4 and MR6-6 Background - Brown Message - Yellow 5. M6-6R same as M6-6L except arrow points ahead and right.

| Z | Area sq. ft. | | 16 - 4 | RD SIGN & M6-6 | |
|---|-----------------|---------------------|----------|--------------------|----------|
| | | | SEF | RIES | |
| | 3.06 | WISCONSIN | DEPT OF | F TRANSPORTATION | ' |
| | 6.25 | APPROVED | Matthe | P Paul | 1 |
| | 6.25 | | for Stat | e Traffic Engineer | <u>т</u> |
| | 6.25 | date <u>10/15</u> / | /15 | PLATE NO. M6-4.10 |) |
| | | | SHEET | NO: | Ε |

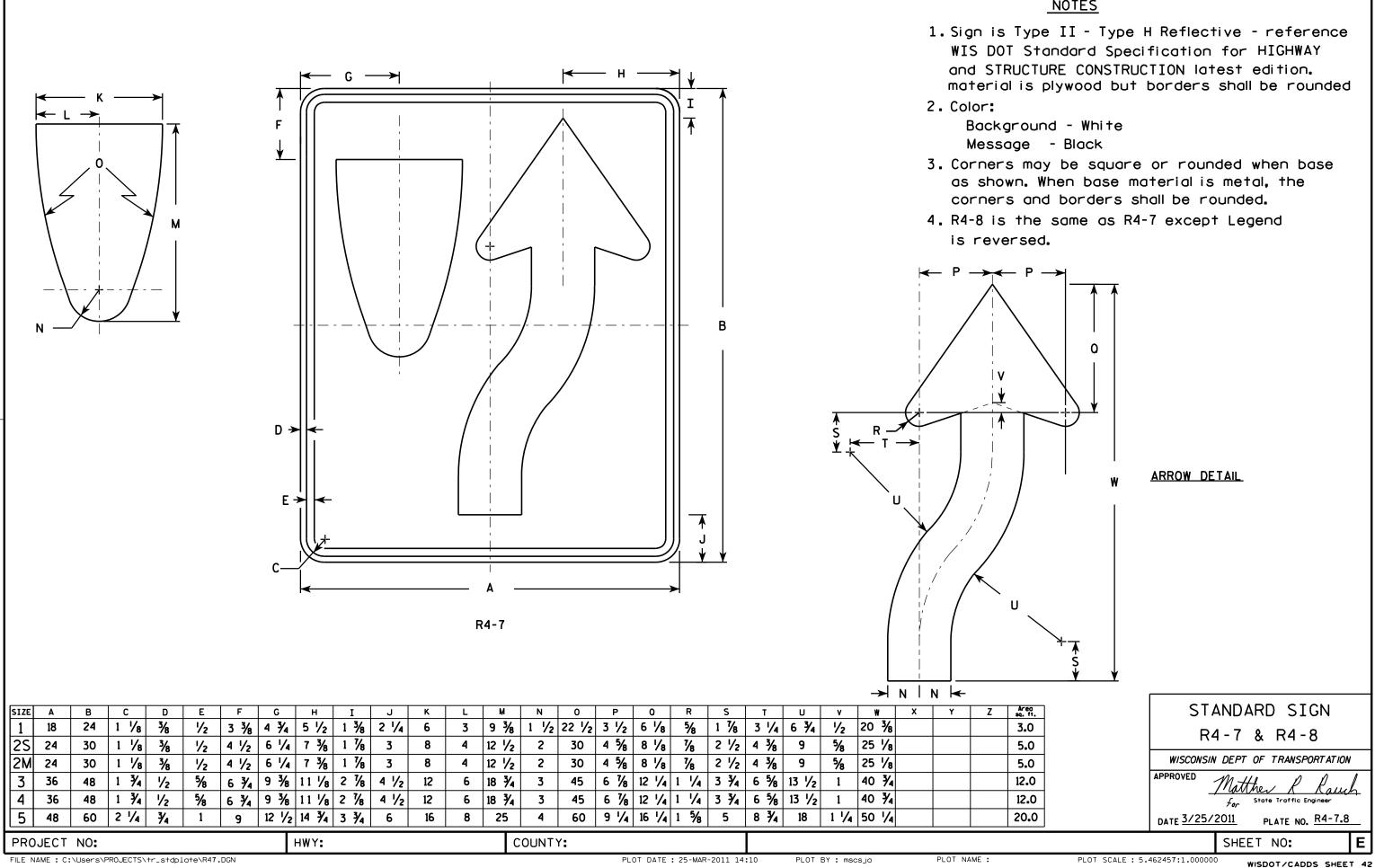


| 7 | | | | C. | | | | | | K → | | | | | | | | | | | | MI | | | and Colo Ba Mess Cor mat as cor | DOT STRL or: ackgr essage ners rerial shown ners | Silling JCT Semis Semis or |
|---|---------|------|----|-----------|----------|------------|-----|-----|-------|-------|-------|-------|-------|------|--------|--------|------------------|----------------|-------------------|--------|------|-----------|-----|--------|--|--|--|
| | SIZE | A | В | С | D | E | F | G | н | I | J | к | L | м | N | 0 | Р | 0 | R | S | Т | U | v | W | x | Y | \square |
| | 1 2S | 24 | 36 | 1 1/8 | 3⁄8 | 1/2 | 4 | 1/4 | 2 1/2 | 1 | 2 7/8 | 2 5/8 | 3 1/4 | 2 | 1 1/2 | 7 1/4 | 7 1/2 | | 8 1/8 | 7 5/8 | 8 | 22° | 1/2 | 9 1/2 | | | ┢ |
| | 2M | 24 | 36 | 1 1/8 | 3⁄8 | 1/2 | 4 | 1/4 | 2 1/2 | 1 | 2 7/8 | 2 5/8 | 3 1/4 | 2 | 1 1/2 | 7 1/4 | 7 Y ₂ | | 8 ¹ /8 | 7 5/8 | 8 | 22° | 1/2 | 9 ½ | | | |
| | 3 | 36 | 54 | 1 3⁄4 | 1/2 | 5⁄8 | 6 | 3⁄8 | 3 3/4 | 1 1/2 | 4 1/4 | 4 | 4 7/8 | 3 | 2 1/4 | 10 7/8 | 11 1/4 | | 12 1⁄4 | 11 1/2 | 12 | 22° | 3⁄4 | 13 1⁄4 | | | ╞ |
| | 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | | ┢ |
| | · · · · | JECT | | | I | 1 | I | | VY: | I | 1 | I | 1 | | | | | | | | | 1 | | | | | |
| | | | | ROJECTS\+ | r_stdplc | ite\R320L. | DGN | | 1. | | | | | COUN | NI Í . | F | PLOT DATE | : 15-0C | T-2010 14 | 1:45 | PLOT | BY : dots | sja | Ρ | LOT NAME | : | |

ype II - Type H Reflective - reference Standard Specification for HIGHWAY CTURE CONSTRUCTION latest edition.

ound - White le - Black Series - E may be square or rounded when base is plywood but borders shall be rounded h. When base material is metal, the and borders shall be rounded.

| Z | Areo sq. ft. | 1 | | | | |
|---|-----------------|---|------------------|------------------|-----------------|------------|
| 2 | sq. ft. | | S | TANDARD | SIGN | |
| | 6.0 | | | R3-2 | 0L | |
| | 6.0 | | WISCON | SIN DEPT OF TI | RANSPORT AT IOI | v |
| | 13.5 | | APPROVED | Matther | P P | |
| | | | | | ffic Engineer | 125 |
| | | | DATE 10/18 | <u>8/10</u> PLAT | E NO. R3-201 | <u>.</u> 7 |
| | | | | SHEET NO |): | Ε |
| | DL OT | | . 47 . 1 . 0.000 | <u></u> | | |

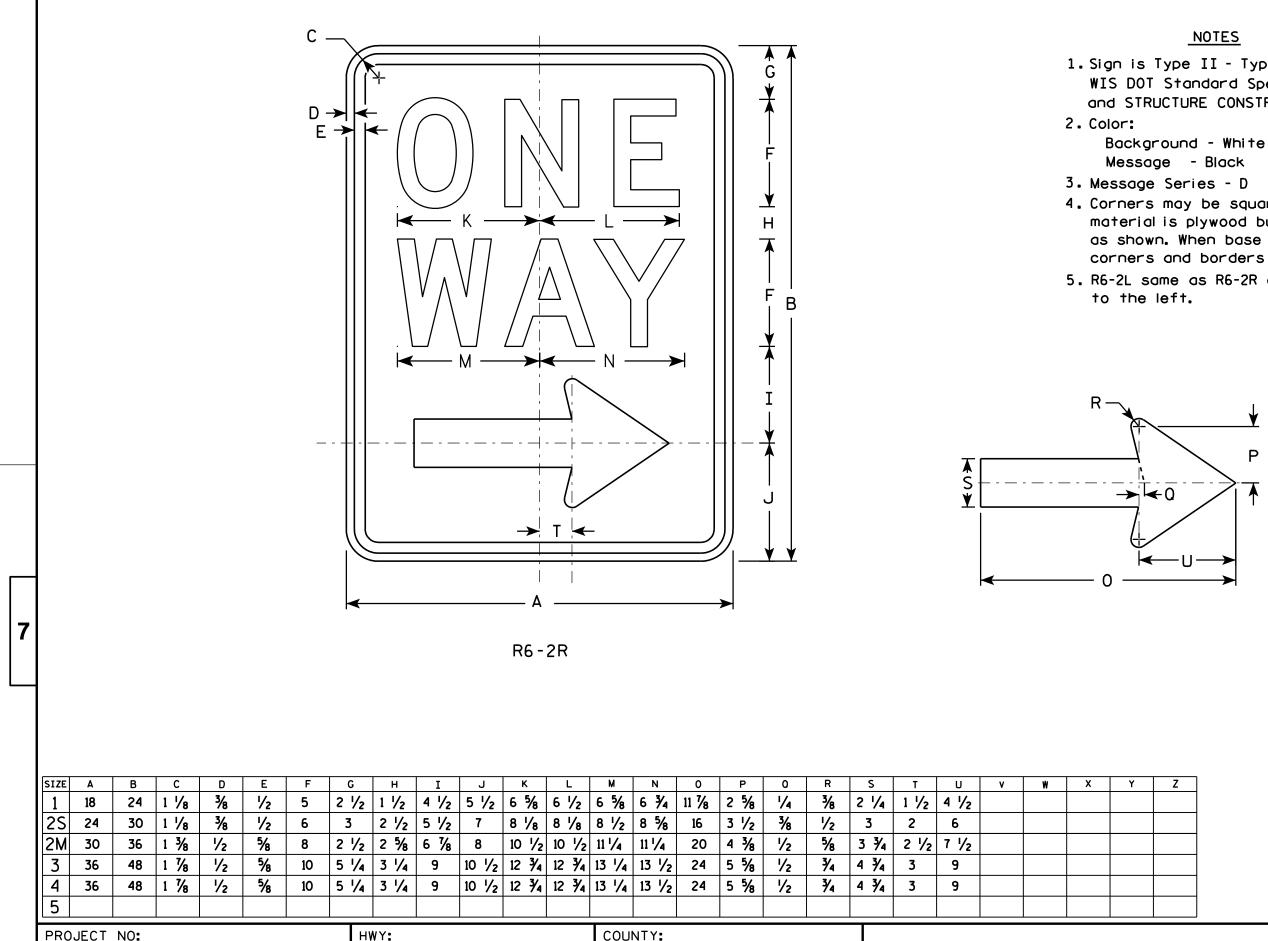


| | | | | | | | | | | Res | | Red | | | Whit | e | | | | | | | | 3 • M€ | 9550 |
|----|-------------------------------------|---|---|---|--|---|--|---|---|--|--|---|--|---|---|--|---|---|--|--|--|--|--|--|--|
| Δ. | В | С | D | E | F | G | Н | I | J | к | L | м | N | 0 | Р | 0 | R | S | Т | U | v | W | X | Y | Z |
| 30 | | 1 7/8 | | 5 | 4 | 6 1/2 | 2 | 3/8 | 6 1/2 | 2 3/8 | 9 ⁵ / ₈ | 14 1/2 | 12 1/2 | 8 1/2 | 8 ⁵ /8 | | | | | | | | | | |
| | | 2 1/4 | | 6 | 5 | 7 1/2 | 2 1/2 | 1/2 | 8 ¹ /8 | 3 | 12 1⁄8 | 17 1/2 | 15 | 10 5/8 | 10 3⁄4 | | | | | | | | | | |
| 36 | | 2 1/4 | | 6 | 5 | $7 \frac{1}{2}$ | $2\frac{1}{2}$ | 1/2 | 8 ¹ / ₈ | | | | | | | | | | | | | | | | |
| - | | - | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 | | 8 | 6 | | | 7/8 | 9 7/4 | 3 1/8 | 14 72 | | • | 12 74 | 12 7/8 | | | | | | | | | | |
| | 30 36 36 36 48 0JECT | 30 36 36 36 48 0JECT NO: | 30 1 7/8 36 2 1/4 36 2 1/4 36 2 1/4 36 2 1/4 36 3 OJECT NO: | 30 1 7/8 36 2 1/4 36 2 1/4 36 2 1/4 36 2 1/4 48 3 | 30 1 1 1/8 5 36 2 1/4 6 36 2 1/4 6 36 2 1/4 6 36 2 1/4 6 36 2 1/4 6 36 3 8 OJECT NO: 0 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 30 1 $\frac{7}{8}$ 5 4 6 $\frac{1}{2}$ 36 2 $\frac{1}{4}$ 6 5 7 $\frac{1}{2}$ 48 3 8 6 11 OJECT NO: HW HW HW HW | 30 1 7/8 5 4 6 1/2 2 36 2 1/4 6 5 7 1/2 2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 48 3 8 6 11 3 OJECT NO: HWY: HWY: HWY HWY | 30 1 7/8 5 4 6 1/2 2 3/8 36 2 1/4 6 5 7 1/2 2 1/2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 1/2 36 2 1/4 6 5 7 1/2 2 1/2 1/2 48 3 8 6 11 3 5/8 OJECT NO: HWY: HWY: HWY: HWY: | A B C D E F G H I J 30 1 7/8 5 4 6 1/2 2 3/8 6 1/2 30 1 7/8 5 4 6 1/2 2 3/8 6 1/2 36 2 1/4 6 5 7 1/2 2 1/2 8 1/8 36 2 1/4 6 5 7 1/2 2 1/2 8 1/8 36 2 1/4 6 5 7 1/2 2 1/2 8 1/8 36 2 1/4 6 5 7 1/2 2 1/2 8 1/8 36 2 1/4 6 5 7 1/2 2 1/2 8 1/8 48 3 8 6 11 3 5/8 9 3/4 OJECT NO: HWY: HWY: HWY HWY HWY HWY | Image: A B C D E F G H I J K Image: A B C D E F G H I J K Image: A B C D E F G H I J K Image: A B C D E F G H I J K Image: A B C D E F G H I J K Image: A Image: A G 5 4 6 1/2 2 3/8 6 1/2 2 3/8 3 | A B C D E F G H I J K L R5-1 I B C D E F G H I J K L I I J K L I J K L I I J K L I J K L I I J K L I J K L I I J K L I J K L I I J K L I J K L I I I J K L I I J K L I I I J K L I I J K L I I J K I J K I I I J K I I <thi< td=""><td>A B C D E F G H I J K L M R5-1</td><td>A B C D E F G H I J K L M N R6d -<td>A B C D E F G H I J K L M N 0 R5-1 I I J K L M N 0 30 1 7% 5 4 6 7/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 12 3% 12 1/8 10 5% 30 1 7% 5 4 6 1/2 2 3% 6 1/2 2 3% 6 1/2 12 10 10 5% 30 1 7% 5 4 6 1/2 2 3% 3 12 1/9 17 12 15 10 5% 36 12 1/9 17 15 10 5% 36 12 1/4 10 5 7 1/2 1/2 10</td><td>A B C D E F C H I J K L M N O P 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 1</td><td>A B C D E F G H I J K L M N O P O 30 1 1% 5 4 6 1/2 2 3% 6 1/2 2 3% 9 5% 14 1/2 12 1/2 8 1/2 8 5% 336 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/6 17 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 <</td><td>A B C D E F G H I J K L M N O P O R 30 1 ½6 5 4 6 ½ 2 ¾ 6 ½ 2 ¾ 9 ½ 11 ½ 12 ½ 8 ½ 8 ¾ 11 ½ 12 ½ 8 ½ 8 ¾ 11 ½ 15 10 ¾ 1 36 2 ¼ 6 5 7 ½ 2 ½ ½ 8 ⅓ 3 12 ⅓ 11 ½ 15 10 ¾ 1 1 3 ¾ 9 ¾ 3 ½ 12 ⅓ 11 ½ 15 10 ¾ 1<!--</td--><td>A B C D E F C H I J K L M N 0 P 0 R S R5-1</td><td>A B C D E F G H I J K L M N 0 P 0 R S T 30 1 1/6 5 4 6 1/2 2 3/6 6 1/2 2 3/6 9 5/6 14 1/2 12 1/2 15 00 5/6 10 3/4 1 <td< td=""><td>A B C D E F G H 1 J K L M N D P D R S T U 30 1 7% 5 4 6 ½ 2 3% 6 5 12 ½ 12 ½ 8 ½ 8 ½ 1</td><td>A B C D E F 6 H I J K L M N 0 P 0 R S T U v 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ ½ 9 ½ 1 ½ 12 ½</td><td>A B C D E F G H I J K L M N O P O R S T U V W 30 1 1% 5 4 6 1/2 2 1% 6 1/2 2 1/2 1/2 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 1/2 1/2 8 1/2 8 1/2 1/2</td><td>A 0 C 0 F 0 H 1 0 K L M N 0 P 0 R 5 T U V N X 30 1 15 4 65 7 12 15 12 12 11 12 12 11 12 12 11 12 12 11 12</td></td<><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td></td></td></thi<> | A B C D E F G H I J K L M R5-1 | A B C D E F G H I J K L M N R6d - <td>A B C D E F G H I J K L M N 0 R5-1 I I J K L M N 0 30 1 7% 5 4 6 7/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 12 3% 12 1/8 10 5% 30 1 7% 5 4 6 1/2 2 3% 6 1/2 2 3% 6 1/2 12 10 10 5% 30 1 7% 5 4 6 1/2 2 3% 3 12 1/9 17 12 15 10 5% 36 12 1/9 17 15 10 5% 36 12 1/4 10 5 7 1/2 1/2 10</td> <td>A B C D E F C H I J K L M N O P 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 1</td> <td>A B C D E F G H I J K L M N O P O 30 1 1% 5 4 6 1/2 2 3% 6 1/2 2 3% 9 5% 14 1/2 12 1/2 8 1/2 8 5% 336 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/6 17 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 <</td> <td>A B C D E F G H I J K L M N O P O R 30 1 ½6 5 4 6 ½ 2 ¾ 6 ½ 2 ¾ 9 ½ 11 ½ 12 ½ 8 ½ 8 ¾ 11 ½ 12 ½ 8 ½ 8 ¾ 11 ½ 15 10 ¾ 1 36 2 ¼ 6 5 7 ½ 2 ½ ½ 8 ⅓ 3 12 ⅓ 11 ½ 15 10 ¾ 1 1 3 ¾ 9 ¾ 3 ½ 12 ⅓ 11 ½ 15 10 ¾ 1<!--</td--><td>A B C D E F C H I J K L M N 0 P 0 R S R5-1</td><td>A B C D E F G H I J K L M N 0 P 0 R S T 30 1 1/6 5 4 6 1/2 2 3/6 6 1/2 2 3/6 9 5/6 14 1/2 12 1/2 15 00 5/6 10 3/4 1 <td< td=""><td>A B C D E F G H 1 J K L M N D P D R S T U 30 1 7% 5 4 6 ½ 2 3% 6 5 12 ½ 12 ½ 8 ½ 8 ½ 1</td><td>A B C D E F 6 H I J K L M N 0 P 0 R S T U v 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ ½ 9 ½ 1 ½ 12 ½</td><td>A B C D E F G H I J K L M N O P O R S T U V W 30 1 1% 5 4 6 1/2 2 1% 6 1/2 2 1/2 1/2 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 1/2 1/2 8 1/2 8 1/2 1/2</td><td>A 0 C 0 F 0 H 1 0 K L M N 0 P 0 R 5 T U V N X 30 1 15 4 65 7 12 15 12 12 11 12 12 11 12 12 11 12 12 11 12</td></td<><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td></td> | A B C D E F G H I J K L M N 0 R5-1 I I J K L M N 0 30 1 7% 5 4 6 7/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 2 3% 6 1/2 12 3% 12 1/8 10 5% 30 1 7% 5 4 6 1/2 2 3% 6 1/2 2 3% 6 1/2 12 10 10 5% 30 1 7% 5 4 6 1/2 2 3% 3 12 1/9 17 12 15 10 5% 36 12 1/9 17 15 10 5% 36 12 1/4 10 5 7 1/2 1/2 10 | A B C D E F C H I J K L M N O P 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 2 ½ 6 ½ 1 | A B C D E F G H I J K L M N O P O 30 1 1% 5 4 6 1/2 2 3% 6 1/2 2 3% 9 5% 14 1/2 12 1/2 8 1/2 8 5% 336 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/6 17 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 1/2 1/2 1/2 1/2 15 10 5% 10 3/4 36 2 1/4 6 5 7 1/2 < | A B C D E F G H I J K L M N O P O R 30 1 ½6 5 4 6 ½ 2 ¾ 6 ½ 2 ¾ 9 ½ 11 ½ 12 ½ 8 ½ 8 ¾ 11 ½ 12 ½ 8 ½ 8 ¾ 11 ½ 15 10 ¾ 1 36 2 ¼ 6 5 7 ½ 2 ½ ½ 8 ⅓ 3 12 ⅓ 11 ½ 15 10 ¾ 1 1 3 ¾ 9 ¾ 3 ½ 12 ⅓ 11 ½ 15 10 ¾ 1 </td <td>A B C D E F C H I J K L M N 0 P 0 R S R5-1</td> <td>A B C D E F G H I J K L M N 0 P 0 R S T 30 1 1/6 5 4 6 1/2 2 3/6 6 1/2 2 3/6 9 5/6 14 1/2 12 1/2 15 00 5/6 10 3/4 1 <td< td=""><td>A B C D E F G H 1 J K L M N D P D R S T U 30 1 7% 5 4 6 ½ 2 3% 6 5 12 ½ 12 ½ 8 ½ 8 ½ 1</td><td>A B C D E F 6 H I J K L M N 0 P 0 R S T U v 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ ½ 9 ½ 1 ½ 12 ½</td><td>A B C D E F G H I J K L M N O P O R S T U V W 30 1 1% 5 4 6 1/2 2 1% 6 1/2 2 1/2 1/2 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 1/2 1/2 8 1/2 8 1/2 1/2</td><td>A 0 C 0 F 0 H 1 0 K L M N 0 P 0 R 5 T U V N X 30 1 15 4 65 7 12 15 12 12 11 12 12 11 12 12 11 12 12 11 12</td></td<><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td> | A B C D E F C H I J K L M N 0 P 0 R S R5-1 | A B C D E F G H I J K L M N 0 P 0 R S T 30 1 1/6 5 4 6 1/2 2 3/6 6 1/2 2 3/6 9 5/6 14 1/2 12 1/2 15 00 5/6 10 3/4 1 <td< td=""><td>A B C D E F G H 1 J K L M N D P D R S T U 30 1 7% 5 4 6 ½ 2 3% 6 5 12 ½ 12 ½ 8 ½ 8 ½ 1</td><td>A B C D E F 6 H I J K L M N 0 P 0 R S T U v 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ ½ 9 ½ 1 ½ 12 ½</td><td>A B C D E F G H I J K L M N O P O R S T U V W 30 1 1% 5 4 6 1/2 2 1% 6 1/2 2 1/2 1/2 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 1/2 1/2 8 1/2 8 1/2 1/2</td><td>A 0 C 0 F 0 H 1 0 K L M N 0 P 0 R 5 T U V N X 30 1 15 4 65 7 12 15 12 12 11 12 12 11 12 12 11 12 12 11 12</td></td<> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> | A B C D E F G H 1 J K L M N D P D R S T U 30 1 7% 5 4 6 ½ 2 3% 6 5 12 ½ 12 ½ 8 ½ 8 ½ 1 | A B C D E F 6 H I J K L M N 0 P 0 R S T U v 30 1 ½ 5 4 6 ½ 2 ½ 6 ½ 2 ½ ½ 9 ½ 1 ½ 12 ½ | A B C D E F G H I J K L M N O P O R S T U V W 30 1 1% 5 4 6 1/2 2 1% 6 1/2 2 1/2 1/2 8 1/2 8 1/2 8 1/2 8 1/2 8 1/2 1/2 1/2 8 1/2 8 1/2 1/2 | A 0 C 0 F 0 H 1 0 K L M N 0 P 0 R 5 T U V N X 30 1 15 4 65 7 12 15 12 12 11 12 12 11 12 12 11 12 12 11 12 | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |

n is Type II - Type H Reflective or: ackground - See detail

- lessage White
- ssage Series D

| Z A | rea 1. ft. | | ST | AN | DARD SI | GN | |
|-----|---------------|------------|------------------|-------|---------------------|------------------|----------|
| | | | | | R5-1 | | |
| 6 | .25 | | | | K0-T | | |
| 9 | 9.0 | | WISCONS | IN DE | EPT OF TRANSF | PORTATION | |
| 9 | 9.0 | | APPROVED | 11 | latther R | Paul | |
| 9 | 9.0 | | | | or State Traffic En | 7 1000-0 | <u>ה</u> |
| 16 | 5.0 | | DATE <u>3/15</u> | / 18 | PLATE NO | . <u>R5-1.16</u> | _ |
| | | | 1 | S | HEET NO: | | Ε |
| | PLOT | SCALE : 5. | 914594:1.0000 | 00 | WISDOT/CAD | DS SHEE | T 42 |



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R62.DGN

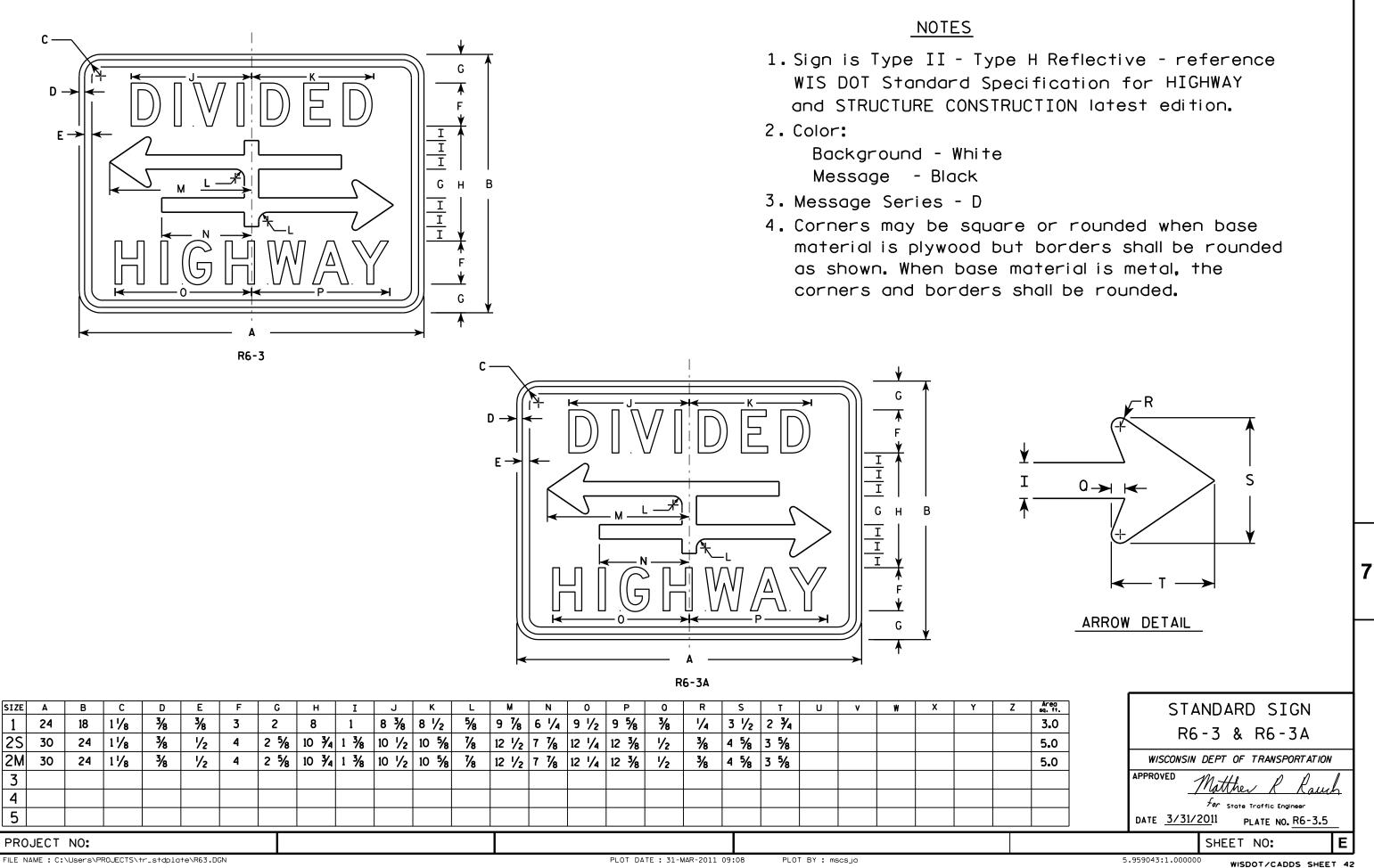
PLOT DATE : 02-NOV-2010 15:25

PLOT NAME : PLOT BY : ditjph

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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. R6-2L same as R6-2R except arrow points

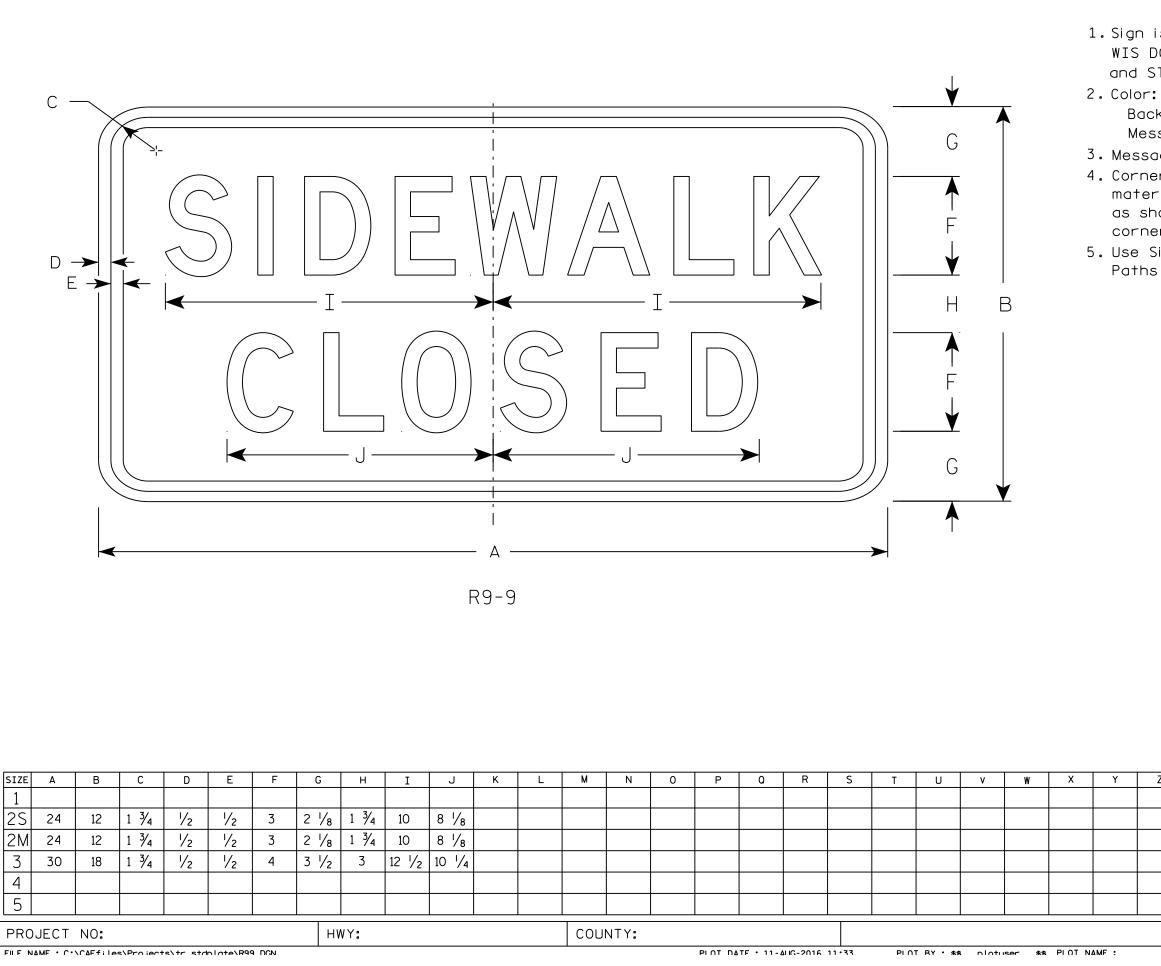
| - | |
|-----------------|--|
| Ζ | STANDARD SIGN |
| | R6-2 R&L |
| | WISCONSIN DEPT OF TRANSPORTATION |
| | APPROVED Matthew & Rauch For State Traffic Engineer |
| | DATE 11/2/10 PLATE NO. R6-2.8 |
| | SHEET NO: E |
| PLOT SCALE : 4. | 469282:1.000000 WISDOT/CADDS SHEET 42 |



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R63.DGN

PLOT DATE : 31-MAR-2011 09:08

PLOT BY : mscsja



NOTES

 Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - White Message - Black
 Message Series - C
 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.
 Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

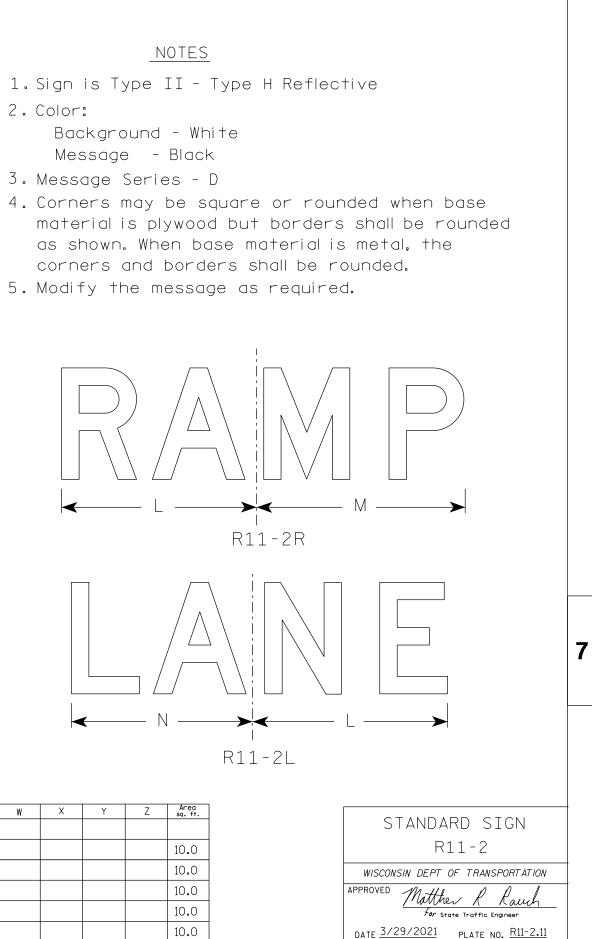
| Z | Area sq. ft. | STA | |) SIGN | |
|---|-----------------|--------------------|--------------|----------------|-----|
| | | | R9 - | 9 | |
| | 2.0 | WICCONCIN | | TRANSPORTATIO | |
| | 2.0 | | DEFIOR | | //v |
| | 3.75 | APPROVED 2 | Natther | R Rain | 6 |
| | | | for State Tr | affic Engineer | |
| | | DATE <u>8/11/1</u> | <u>6</u> PL | ATE NO | 9.6 |
| | | | SHEET | NO: | E |

| | | | | | | | С К | | | | | | К | | | > | | | G F | | | | | | | |) \ | / |
|---|------|------|-----|------------|-----------|-----------|-------|---|------|--------|------|----|----|----|------|--------------------|---|-----------|----------|----------|---|--------|-----------|-----|---|-----------|--------|--|
| | | | | | | | | | | R11 | - 2 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | -0 | | R11 | | | _0- | | |] | | | | <hr/> | / N | ////////////////////////////////////// |
| | SIZE | А | В | С | D | E | F | G | н | I | J | К | L | М | N | 0 | P | Q | R | S | Т | U | v | W | X | Y | Z | Are sq. 1 |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 25 | 48 | 30 | 1 3/8 | 1/2 | 5⁄8 | 8 | 5 | 4 | | 13 ½ | 19 | 14 | 15 | 13 | 15 5/8 | | | | | | | | | | | | 10.0 |
| | 2M | 48 | 30 | 1 3/8 | 1/2 | 5⁄8 | 8 | 5 | 4 | 13 1/4 | 13 ½ | 19 | 14 | 15 | 13 | 15 ⁵ ⁄8 | | | | | | | | | | | | 10.0 |
| | 3 | 48 | 30 | 1 3/8 | 1/2 | 5⁄8 | 8 | 5 | 4 | 13 1/4 | 13 ½ | 19 | 14 | 15 | 13 | 15 5/8 | | | | | | | | | | | | 10.0 |
| | 4 | 48 | 30 | 1 3/8 | 1/2 | 5⁄8 | 8 | 5 | 4 | 13 1/4 | 13 ½ | 19 | 14 | 15 | 13 | 15 5/8 | | | | | | | | | | | | 10.0 |
| | 5 | 48 | 30 | 1 3/8 | 1/2 | 5⁄8 | 8 | 5 | 4 | 13 1/4 | 13 ½ | 19 | 14 | 15 | 13 | 15 5/8 | | | | | | | | | | | | 10.0 |
| | PRO | JECT | NO: | | | | | | HWY: | | | | | С | OUNT | Y: | | | | | | | | | | | | |
| l | | | | .PROJECTS` | \tr_stdp. | late\R112 | 2.dgn | | | | | | | 1 | | | PL(|)T DATE : | : 29-MAR | 2021 8:1 | 5 | PLOT E | 3Y : doto | :4c | F | PLOT NAMI | E : | |

G Ā $D \rightarrow \checkmark$ F E → V ≻≺ . 1 ΗB

С.

- 2. Color:
- 3. Message Series D



| | For sta | ite Traffic Engi | neer | |
|----------------|---------|------------------|----------------|---|
| DATE <u>3/</u> | 29/2021 | PLATE NO. | <u>R11-2.1</u> | 1 |
| | SHEET | NO: | | Ε |

| | | 1. s 2. 3. 4. |
|---|---|--|
| | A ROAD f 250 FT f W20-1H | |
| | | |
| | | |
| • | W20-1A W20-1A W20-1B | -> |
| | SIZE A B C D E F G H I J K L M N O P O R S T U v W X 1 36 1 5/8 5/8 3/4 5 2 5/8 3 1/4 10 1/8 7 7 5/8 8 1/8 1/2 3 1/2 9 3 1/4 2 1/2 2 1/4 5 5/8 9 1 3/8 8 1 3/4 2S 48 2 1/4 3/4 1 8 3 3/4 5 1/8 12 1/8 1 5/8 1 3/4 2 3/4 1 8 2 3/4 5 1/8 11 1/8 12 1/8 14 3/8 1 5/8 13 1/4 1/8 1 3/4 2 1/8 1 3/4 2 1/8 1 3/4 2 3/4 2 3/4 | 16 ³ / ₈ 16 ³ / ₈ |

3 3/4 5 1/8 15 3/8 11 1/8 12 1/8 14 3/8 1 5/8 6 7/8 5 3/8 13 7/8 4 3/8 3 7/8

PROJECT NO:

48

5

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

2 1/4

3/4

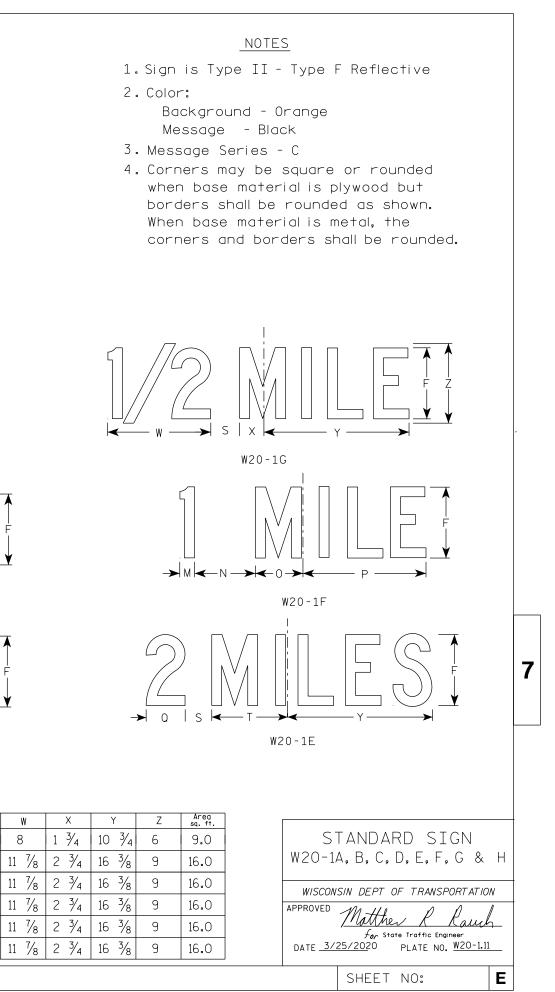
1

8

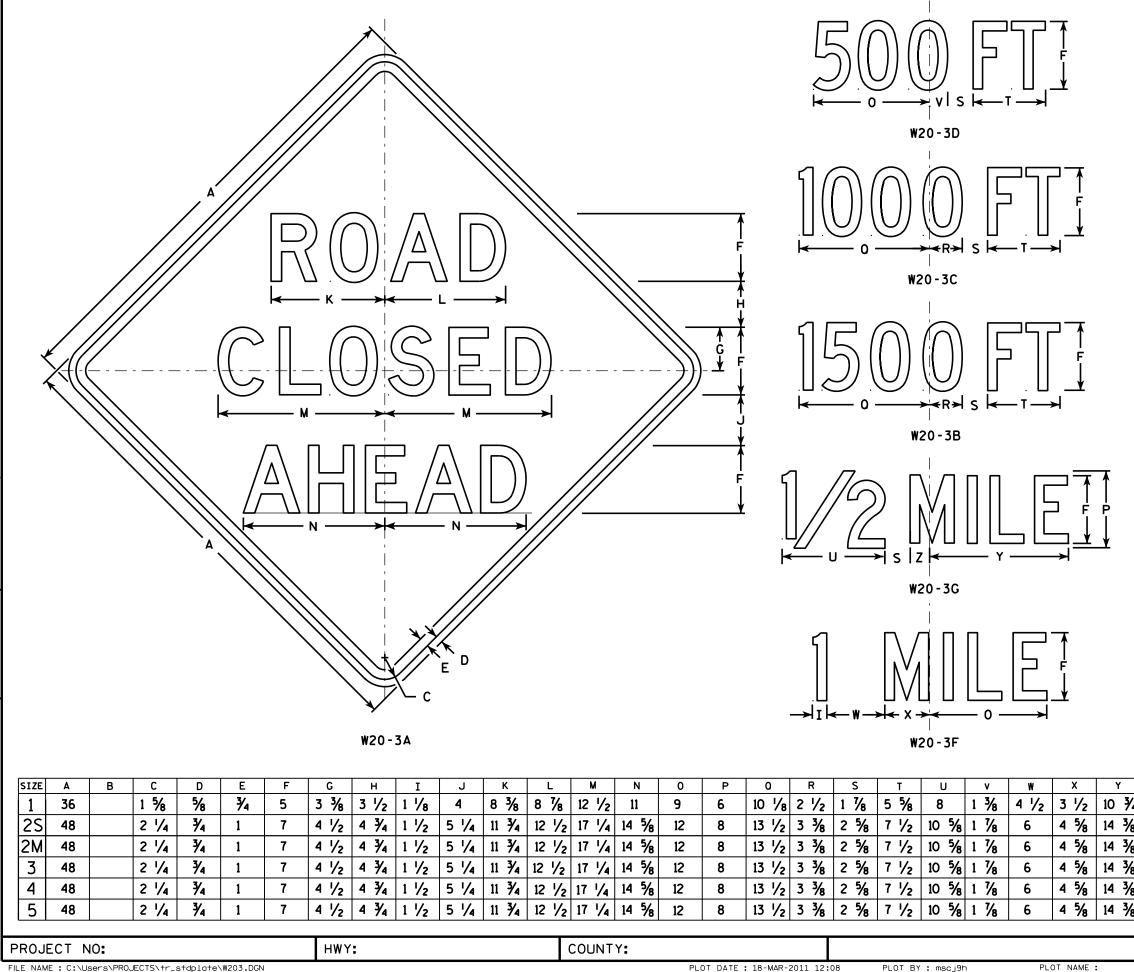
PLOT BY : dotc4c

3

8 5/8 13 3/4 2 1/8



WISDOT/CADDS SHEET 42



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

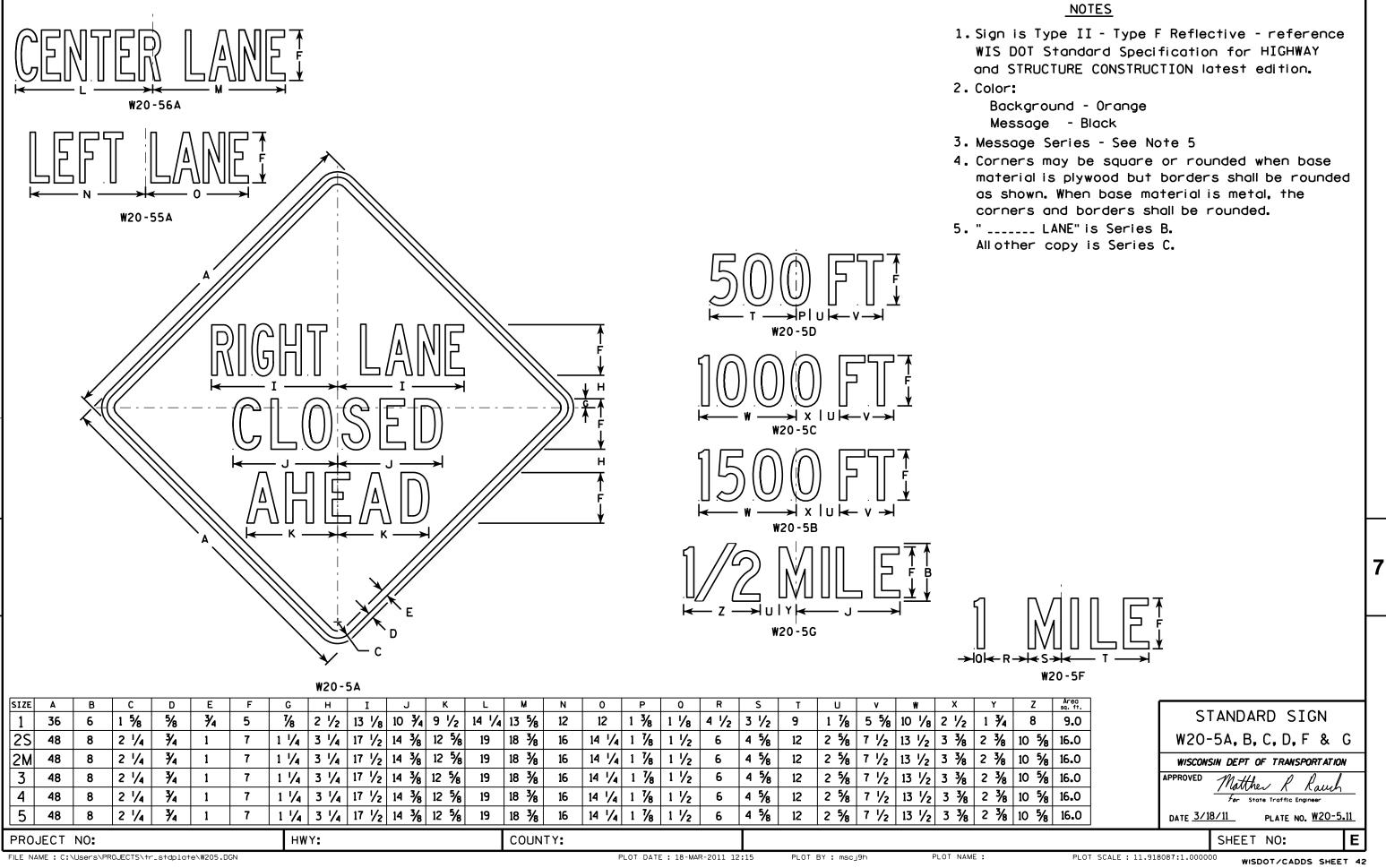
7

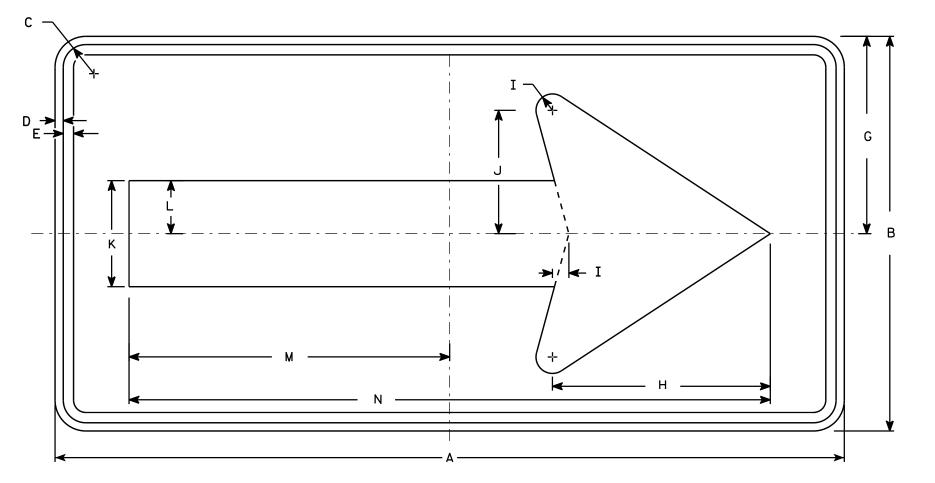
PLOT DATE : 18-MAR-2011 12:08

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: Background - Orange Message - Black
- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

| | Z | Area sq. ft. |] | | |
|---|-------|-----------------|-----------------|-----------------|--|
| 4 | 1 3⁄4 | 9.0 | | <u>ر</u> | TANDARD SIGN |
| 3 | 2 3/8 | 16.0 | | | |
| , | 2 3/8 | 16.0 | | W20- | -3A, B, C, D, F & G |
| , | 2 3/8 | 16.0 | | | ISIN DEPT OF TRANSPORTATION |
| 3 | 2 3/8 | 16.0 | | APPROVED | Matther & Rauch |
| 3 | 2 3/8 | 16.0 |] | DATE <u>3/1</u> | For State Traffic Engineer B/11 PLATE NO. W20-3.7 |
| | | | | | SHEET NO: E |
| | | PLOT S | SCALE : 9.93173 | 9:1.000000 | WISDOT/CADDS SHEET 42 |







| SIZE | Α | В | С | D | E | F | G | н | I | J | К | L | M | N | 0 | P | 0 | R | S | Т | U | v | W | X | Y |
|--------|----------|----------|-----------|----------|-----------|--------|----|--------|-------|-------|-------------------|-------|--------|------|---|----------|-----------|-----------|-----|--------|-----------|-----|---|-----------|-----|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 2S | 48 | 24 | 1 3/8 | 1/2 | 5%8 | | 12 | 13 1⁄4 | 1 | 7 1/2 | 6 ¹ /2 | 3 1/4 | 19 1⁄2 | 39 | | | | | | | | | | | |
| 2M | 48 | 24 | 1 3/8 | 1/2 | 5% | | 12 | 13 1⁄4 | 1 | 7 1/2 | 6 1/2 | 3 1/4 | 19 1/2 | 39 | | | | | | | | | | | |
| 3 | 60 | 30 | 1 3/8 | 1/2 | 5% | | 15 | 16 1/4 | 1 1/4 | 9 1/4 | 8 | 4 | 24 3/8 | 48 ¾ | | | | | | | | | | | |
| 4 | 60 | 30 | 1 3/8 | 1/2 | 5⁄8 | | 15 | 16 1⁄4 | 1 1/4 | 9 1/4 | 8 | 4 | 24 3/8 | 48 ¾ | | | | | | | | | | | |
| 5 | 60 | 30 | 1 3/8 | 1/2 | 5% | | 15 | 16 1⁄4 | 1 1/4 | 9 1/4 | 8 | 4 | 24 3/8 | 48 ¾ | | | | | | | | | | | |
| PRC | JECT | NO: | | | | | ни | VY: | | | | | COUN | ΤΥ: | | | | | | | | | | | |
| FILE N | AME : C: | \CAEfile | s\Project | s\tr_std | plate\W01 | L6.DGN | | | | | | | | | I | PLOT DAT | E : 28-FE | 3-2014 11 | :37 | PLOT I | BY : mscj | j9h | P | PLOT NAME | . : |

- 2. Color:
 - Message Black

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

Background - Orange

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.

| Z | Areg sq. ft. | STANDARD SIGN |
|---|-----------------|---|
| | 8.0 | WO1-6 |
| | 8.0 | WISCONSIN DEPT OF TRANSPORTATION |
| | 12.5 | APPROVED Matthew R Rauch |
| | 12.5 | For State Traffic Engineer |
| | 12.5 | DATE <u>11/18/13</u> PLATE NO. <u>WO1-6.1</u> |
| | | SHEET NO: E |

| $ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$ | |
|--|--|
| | |

- 2. Color:
 - Background Orange Message – Black

| SIZE | Α | В | С | D | E | F | G | н | I | J | к | L | м | N | 0 | Р | 0 | R | S | Т | U | v | W | X | Y | |
|------|------|-----|-------|-----|-----|----|-------|-----------------|-------|-------|-------|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36 | | 1 5/8 | 5⁄8 | 3⁄4 | 12 | 4 | 45° | 1 | 1 3⁄4 | 5 | 3 | 1 1/2 | | | | | | | | | | | | | |
| 2S | 48 | | 2 1⁄4 | 3⁄4 | 1 | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3⁄4 | 4 | 2 | | | | | | | | | | | | | |
| 2M | 48 | | 2 1/4 | 3⁄4 | 1 | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3⁄4 | 4 | 2 | | | | | | | | | | | | | |
| 3 | 48 | | 2 1/4 | 3⁄4 | 1 | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3⁄4 | 4 | 2 | | | | | | | | | | | | | Γ |
| 4 | 48 | | 2 1/4 | 3⁄4 | 1 | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3⁄4 | 4 | 2 | | | | | | | | | | | | | Γ |
| 5 | 48 | | 2 1/4 | 3⁄4 | 1 | 16 | 5 3/8 | 45 [°] | 1 1/4 | 2 3/8 | 6 3⁄4 | 4 | 2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | - |
| PRO | JECT | NO: | | | | | | | | | | | | | | | | | | | | | | | | |

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W042.DGN

7

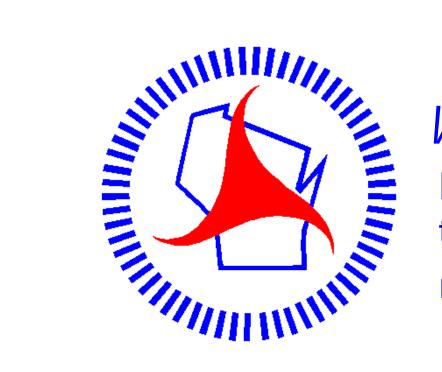
NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.

| Z | Areo sq. ft. | STANDARD SIGN |
|---|-----------------|-----------------------------------|
| | 9.0 | WO4-2 |
| | 16.0 | W04-2 |
| | 16.0 | WISCONSIN DEPT OF TRANSPORTATION |
| | 16.0 | APPROVED Matthew & Rauch |
| | 16.0 | <i>For</i> State Traffic Engineer |
| | 16.0 | DATE 11/20/13 PLATE NO. W04-2.1 |
| | | SHEET NO: E |



Wisconsin Department of Transportation

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