MAD MAR 13

PROJECT ID: 3140-00-71

COUNTY: ROCK

ORDER OF SHEETS



TOTAL SHEETS = 16

N

04

# STATE OF WISCONSIN
# DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

# EDGERTON - WHITEWATER

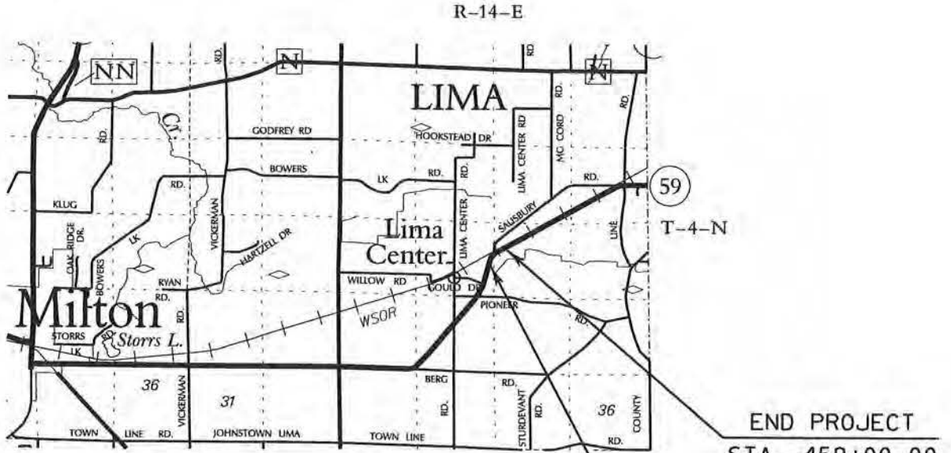
SALISBURY ROAD INTERSECTION

STH 59

ROCK COUNTY

| STATE PROJECT | FEDERAL PROJECT | |
|---|---|---|
| | PROJECT | CONTRACT |
| 3140-00-71 | WISC 2013072 | 1 |
| | | |
| | | |
| | | |

STATE PROJECT NUMBER
**3140-00-71**




END PROJECT
STA. 459+00.00

BEGIN PROJECT
STA. 443+00.00
Y = 290,376.10
X = 2,317,197.67

DESIGN DESIGNATION

| | | |
|---|---|---|
| A.A.D.T. 2012 | = | 4,250 |
| A.A.D.T. 2032 | = | N/A |
| D.H.V. | = | N/A |
| D.D. | = | N/A |
| T. | = | N/A |
| DESIGN SPEED | = | N/A |
| ESALS | = | N/A |

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.35)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), SOUTH ZONE."

ORIGINAL PLANS PREPARED BY

DAAR ENGINEERING, INC.
www.daarengineering.com
Madison, WI 53703

GARY M. SASSMAN E-27086 WHITEWATER, WIS — PROFESSIONAL ENGINEER

10/31/2012 (Date) Gary Sassman (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

| PREPARED BY | |
|---|---|
| Surveyor | |
| Designer | DAAR ENGINEERING, INC |
| Project Manager | MAHESH SHRESTHA P.E. |
| Regional Examiner | |
| Regional Supervisor | SCOTT LAWRY P.E. |
| C.O. Examiner | JE |

APPROVED FOR THE DEPARTMENT
DATE: 10-31-12 Scott L (Signature)

E

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND MEASURED IN THE FIELD FOR MATCHING PURPOSES.

DISTURBED AREAS WITHIN THE RIGHT OF WAY THAT ARE NOT INCIDENTAL TO CONTRACT WORK ITEMS ARE TO BE FERTILIZED, SEEDED, MATTED AND/OR MULCHED AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF THE BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF MATERIALS AS DIRECTED BY THE ENGINEER.

UNIT WEIGHT OF ASPHALT ASSUMED 110 LB/SY

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT SURFACE MEETS EXISTING PAVEMENT SURFACE.

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

AGENCY CONTACTS

WISDOT SW REGION
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(608) 245-2674
mahesh.shrestha@dot.wi.gov

Design Consultant
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gary.sassman@daarcorp.com

DNR Contact
Amanda Cushman
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Madison, WI 53711
(608) 275-3485

UTILITY CONTACTS

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De Pere, WI 54115-6113
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sg5813@att.com

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Northern Natural Gas Company - Gas/Petroleum
8101 Birchwood Ct Ste F
Johnston, IA 50131
(515) 226-2016
Jim.Carlson@nngco.com

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We Energies - Gas/Petroleum
333 W Everett St, A299
Milwaukee, WI 53203
(414) 550-4993
Dan.Sande@we-energies.com

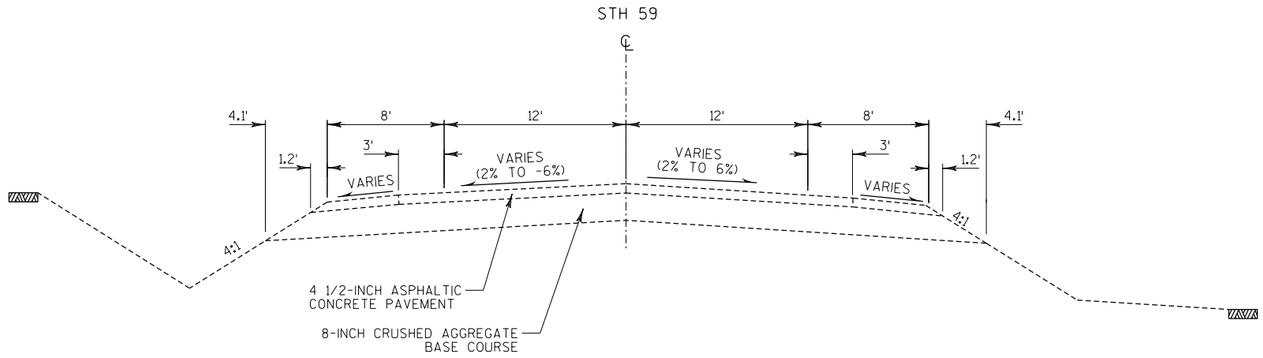
DIGGERS HOTLINE

**Call 811 3 Work Days Before You Dig**
**Or Toll Free (800) 242-8511**
Hearing Impaired TDD (800) 542-2289
**www.DiggersHotline.com**

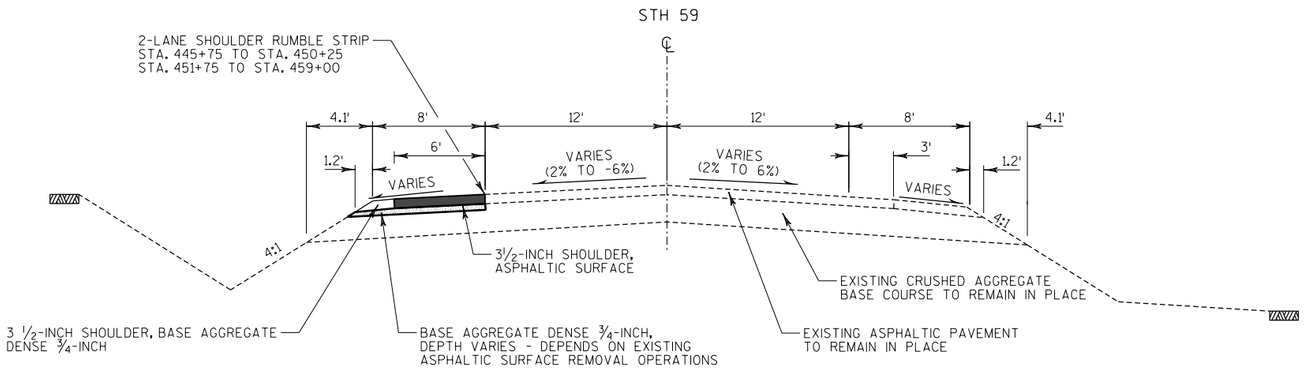
ABBREVIATIONS

| | |
|---|---|
| ABUT | ABUTMENT |
| AC | ACRE |
| A.D.T. | AVERAGE DAILY TRAFFIC |
| AP | ACCESS POINT |
| B.F. | BACK FACE |
| B&B | BALLED AND BURLAPPED |
| B.M. | BENCH MARK |
| B.O.P. | BEGIN OF PROJECT |
| CL | CENTER LINE |
| CTR. | CENTER |
| CE | COMMERCIAL ENTRANCE |
| CY | CUBIC YARD |
| CPCS | CULVERT PIPE CORRUGATED STEEL |
| CPRCHE | CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL |
| CPRC | CULVERT PIPE REINFORCED CONCRETE |
| C&G | CURB AND GUTTER |
| D.H.V. | DESIGN HOURLY VOLUME |
| DIA. | DIAMETER |
| DIM. | DIMENSION |
| EL | ELEVATION |
| EW | END WALL |
| EBS | EXCAVATION BELOW SUBGRADE |
| E.O.P. | END OF PROJECT |
| EXC. | EXCAVATION |
| EXIST | EXISTING |
| F.F. | FRONT FACE |
| FE | FIELD ENTRANCE |
| FL | FLOW LINE |
| HT | HEIGHT |
| CWT | HUNDREDWEIGHT |
| IN DIA | INCH DIAMETER |
| INL | INLET |
| IEP | INSIDE EDGE OF PAVEMENT |
| INV | INVERT |
| IP | IRON PIPE |
| LT | LEFT |
| LHF | LEFT HAND FORWARD |
| MH | MANHOLE |
| ML | MATCH LINE |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| NORM | NORMAL |
| O.H. | OVER HEAD POWER LINE |
| PLE | PERMANENT LIMITED EASEMENT |
| PACS | PIPE ARCH CORRUGATED STEEL |
| PC | POINT OF CURVATURE |
| PI | POINT OF INTERSECTION |
| PT | POINT OF TANGENCY |
| PE | PRIVATE ENTRANCE |
| PL | PROPERTY LINE |
| PB | PULL BOX |
| RAD. | RADIUS |
| REQD | REQUIRED |
| RT | RIGHT |
| RHF | RIGHT HAND FORWARD |
| R/W | RIGHT OF WAY |
| STA. | STATION |
| SSPRC | STORM SEWER PIPE REINFORCED CONCRETE |
| SSPRCHE | STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL |
| SE | SUPERELEVATION |
| STR. | STRUCTURE |
| TLE | TEMPORARY LIMITED EASEMENT |
| TYP. | TYPICAL |
| V. | DESIGN SPEED |

2

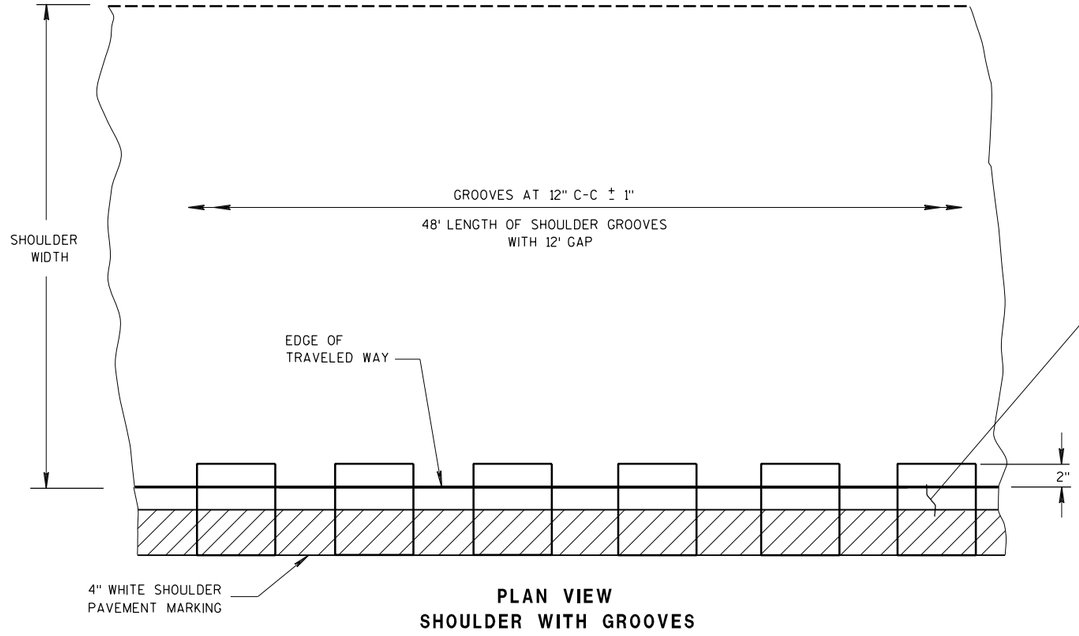



EXISTING TYPICAL SECTION
STH 59
STA. 443+00 TO STA. 459+00

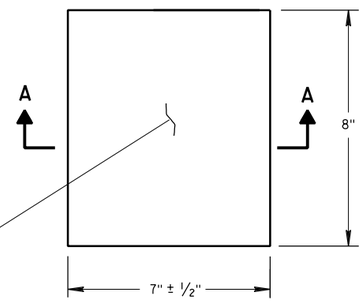



PROPOSED TYPICAL SECTION
STH 59
STA. 443+00 TO STA. 459+00

| PROJECT NO: 3140-00-71 | HWY: STH 59 | COUNTY: ROCK | TYPICAL SECTIONS | SHEET 3 | E |
|---|---|---|---|---|---|




**PLAN VIEW**
**SHOULDER WITH GROOVES**



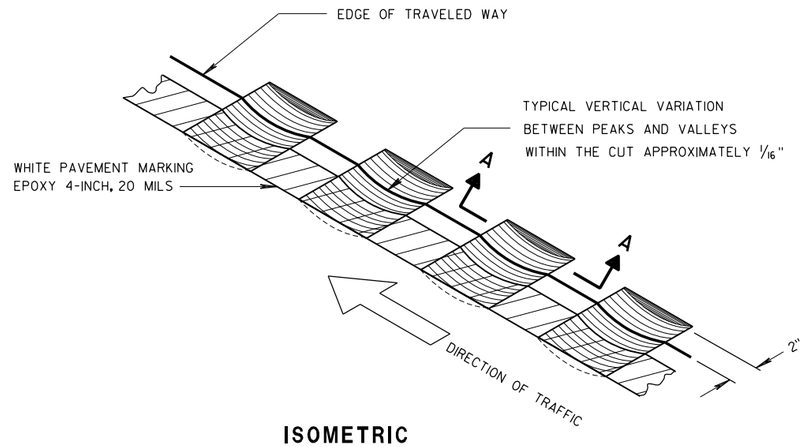

**PLAN VIEW**
**(SINGLE GROOVE)**

## PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

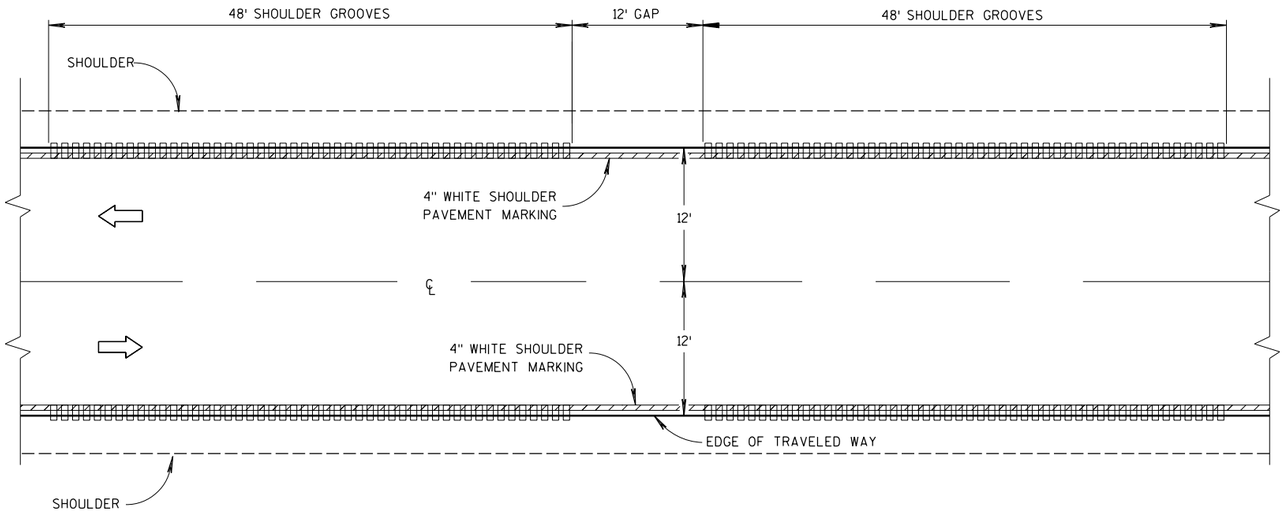
## GENERAL NOTES

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

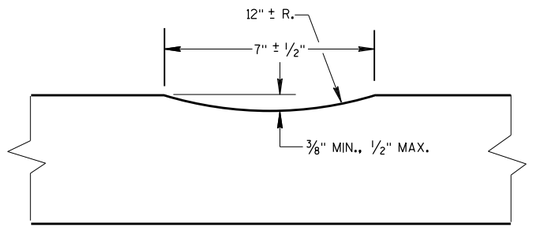
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.




**ISOMETRIC**



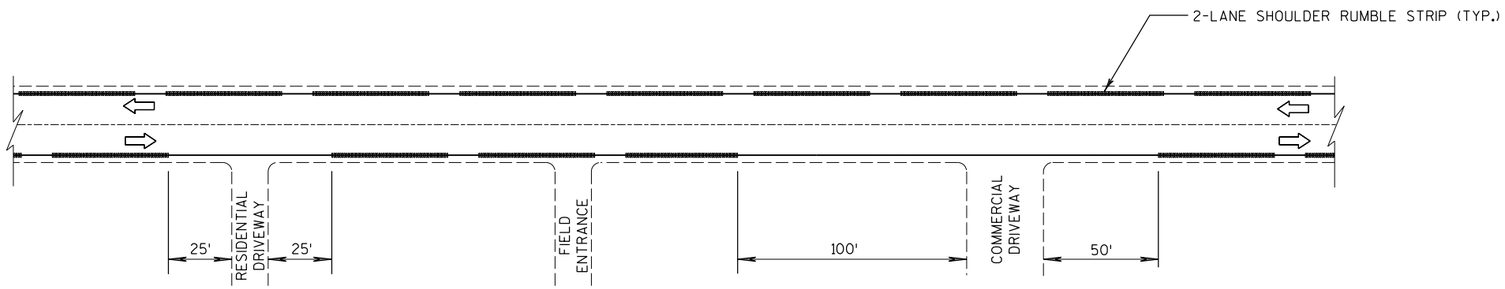

## 2-LANE SHOULDER RUMBLE STRIP




**SECTION A-A**

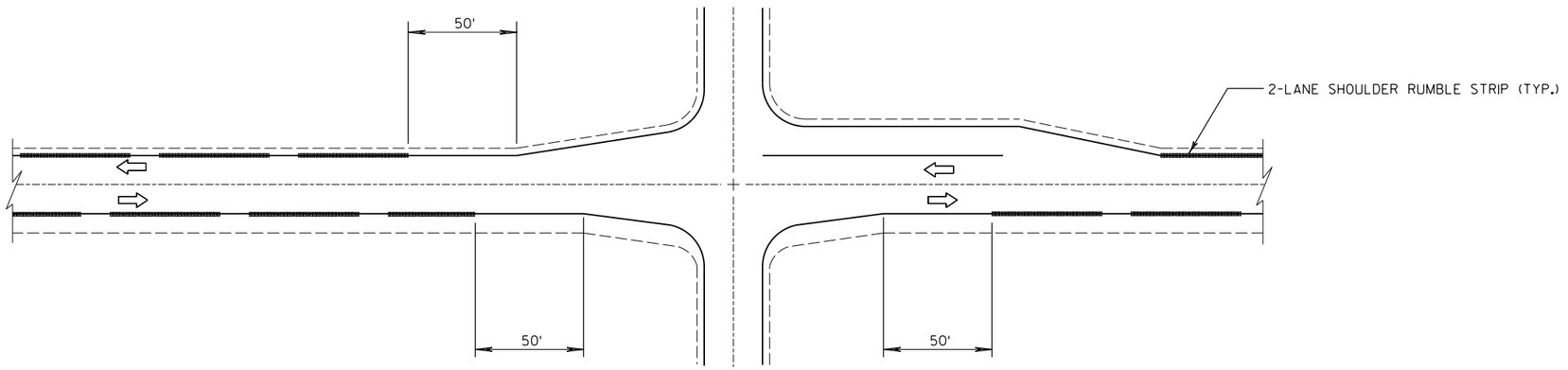
| PROJECT NO: 3140-00-71 | HWY: STH 59 | COUNTY: ROCK | CONSTRUCTION DETAILS | SHEET 4 | E |
|---|---|---|---|---|---|

2




## 2-LANE SHOULDER RUMBLE STRIP AT DRIVEWAYS (1)

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




## 2-LANE SHOULDER RUMBLE STRIP AT INTERSECTIONS

DATE 18DEC12 E S T I M A T E O F Q U A N T I T I E S

| LINE NUMBER | ITEM | ITEM DESCRIPTION | UNIT | TOTAL | 3140-00-71 QUANTITY |
|---|---|---|---|---|---|
| 0010 | 204.0110 | REMOVING ASPHALTIC SURFACE | SY | 580.000 | 580.000 |
| 0020 | 211.0400 | PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS | STA | 15.000 | 15.000 |
| 0030 | 213.0100 | FINISHING ROADWAY (PROJECT) 01. 3140-00-71 | EACH | 1.000 | 1.000 |
| 0040 | 305.0110 | BASE AGGREGATE DENSE 3/4-INCH | TON | 180.000 | 180.000 |
| 0050 | 465.0105 | ASPHALTIC SURFACE | TON | 195.000 | 195.000 |
| 0060 | 618.0100 | MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 3140-00-71 | EACH | 1.000 | 1.000 |
| 0070 | 619.1000 | MOBILIZATION | EACH | 1.000 | 1.000 |
| 0080 | 628.1905 | MOBILIZATIONS EROSION CONTROL | EACH | 2.000 | 2.000 |
| 0090 | 628.1910 | MOBILIZATIONS EMERGENCY EROSION CONTROL | EACH | 2.000 | 2.000 |
| 0100 | 634.0614 | POSTS WOOD 4X6-INCH X 14-FT | EACH | 4.000 | 4.000 |
| 0110 | 637.0202 | SIGNS REFLECTIVE TYPE II | SF | 16.000 | 16.000 |
| 0120 | 643.0100 | TRAFFIC CONTROL (PROJECT) 01. 3140-00-71 | EACH | 1.000 | 1.000 |
| 0130 | 646.0106 | PAVEMENT MARKING EPOXY 4-INCH | LF | 150.000 | 150.000 |
| 0140 | 690.0150 | SAWING ASPHALT | LF | 1,720.000 | 1,720.000 |
| 0150 | SPV.0090 | SPECIAL 01. REGRADING AND LANDSCAPING DITCHES | LF | 100.000 | 100.000 |
| 0160 | SPV.0090 | SPECIAL 02. 2-LANE SHOULDER RUMBLE STRIP | LF | 1,180.000 | 1,180.000 |
| 0170 | SPV.0090 | SPECIAL 03. PAVEMENT MARKING EPOXY 4-INCH, 20 MILS | LF | 1,180.000 | 1,180.000 |

CATEGORY 0010

**REMOVING ASPHALTIC SURFACE**

| STATION | TO | STATION | LOCATION | 204.0110 REMOVING ASPHALTIC SURFACE SY |
|---|---|---|---|---|
| 443+00.00 | - | 459+00.00 | STH 59 - LEFT SHOULDER | 540 |
| | | | SALISBURY RD INTERSECTION | 40 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **580** |

CATEGORY 0010

**PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS**

| STATION | TO | STATION | LOCATION | 211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA |
|---|---|---|---|---|
| 443+00.00 | - | 450+40.00 | STH 59 - LEFT SHOULDER | 7 |
| 451+50.00 | - | 459+00.00 | STH 59 - LEFT SHOULDER | 8 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **15** |

CATEGORY 0010

**BASE AGGREGATE DENSE**

| STATION | TO | STATION | LOCATION | 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON |
|---|---|---|---|---|
| 443+00.00 | - | 459+00.00 | STH 59 - SHOULDER REMOVAL REPAIR | 180 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **180** |

CATEGORY 0010

**ASPHALTIC SURFACE**

| STATION | TO | STATION | LOCATION | 465.0105 ASPHALTIC SURFACE TON |
|---|---|---|---|---|
| 443+00.00 | - | 459+00.00 | STH 59 - LEFT SHOULDER | 195 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **195** |

CATEGORY 0010

**MOBILIZATIONS EROSION CONTROL**

| LOCATION | 628.1905 MOBILIZATIONS EROSION CONTROL EA | 628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EA |
|---|---|---|
| STH 59 - LEFT DITCH | 2 | 2 |
| **PROJECT I.D. 3140-00-71 TOTAL** | **2** | **2** |

CATEGORY 0010

**TYPE II SIGNS AND SUPPORTS**

| SIGN NO. | LOCATION | SIGN CODE | 637.0202 SIGNS REFLECTIVE TYPE II W X H | S.F. | 634.0614 POSTS WOOD 4" X 6" X 14' EACH |
|---|---|---|---|---|---|
| 1-1 | STH 59, STA. 449+50, LT | W1-6R | 48 x 24 | 8.00 | 2 |
| 1-2 | STH 59, STA. 453+00, LT | W1-6L | 48 x 24 | 8.00 | 2 |
| | **PROJECT 3140-00-71 TOTAL** | | | **16.00** | **4.00** |

CATEGORY 0010

**PAVEMENT MARKING 4-INCH EPOXY**

| STATION | TO | STATION | LOCATION | 646.0106 PAVEMENT MARKING 4-INCH EPOXY LF | COMMENTS |
|---|---|---|---|---|---|
| 450+25.00 | - | 451+70.00 | STH 59 - LEFT SHOULDER | 50 | WHITE |
| | | | UNDISTRIBUTED | 100 | |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **150** | |

CATEGORY 0010

**SAWING ASPHALT**

| STATION | TO | STATION | LOCATION | 690.0150 SAWING ASPHALT LF |
|---|---|---|---|---|
| 443+00.00 | - | 459+00.00 | STH 59 - LEFT SHOULDER | 1600 |
| | | | SALISBURY RD INTERSECTION | 120 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **1,720** |

CATEGORY 0010

**REGRADING AND LANDSCAPING DITCHES**

| STATION | TO | STATION | LOCATION | SPV.0090.01 REGRADING AND LANDSCAPING DITCHES LF |
|---|---|---|---|---|
| 452+00.00 | - | 453+00.00 | STH 59 - LEFT DITCH | 100 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **100** |

CATEGORY 0010

**2-LANE SHOULDER RUMBLE STRIP**

| STATION | TO | STATION | LOCATION | SPV.0090.02 2-LANE SHOULDER RUMBLE STRIP LF |
|---|---|---|---|---|
| 445+75.00 | - | 450+25.00 | STH 59 - LEFT SHOULDER | 450 |
| 451+70.00 | - | 459+00.00 | STH 59 - LEFT SHOULDER | 730 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **1,180** |

CATEGORY 0010

**PAVEMENT MARKING EPOXY 4-INCH, 20 MILS**

| STATION | TO | STATION | LOCATION | SPV.0090.03 PAVEMENT MARKING EPOXY 4-INCH, 20 MILS LF |
|---|---|---|---|---|
| 445+75.00 | - | 450+25.00 | STH 59 - LEFT SHOULDER | 450 |
| 451+70.00 | - | 459+00.00 | STH 59 - LEFT SHOULDER | 730 |
| | | | **PROJECT I.D. 3140-00-71 TOTAL** | **1,180** |


| PROJECT NO: 3140-00-71 | HWY: STH 59 | COUNTY: ROCK | PLAN VIEW - STH 59 & SALISBURY ROAD INTERSECTION | SHEET 8 | E |
|---|---|---|---|---|---|

FILE NAME : M:\CAD\Active\SW\31400001 STH 59\Main\06 Plan and Profile.dgn PLOT DATE : 12/17/2012 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 200.0000 ' / in.

WISDOT/CADDS SHEET 44

# Standard Detail Drawing List

| | |
|---|---|
| 15C12-03 | TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS) |

6

6

# TWO-LANE ROADWAY

## SYMBOLS

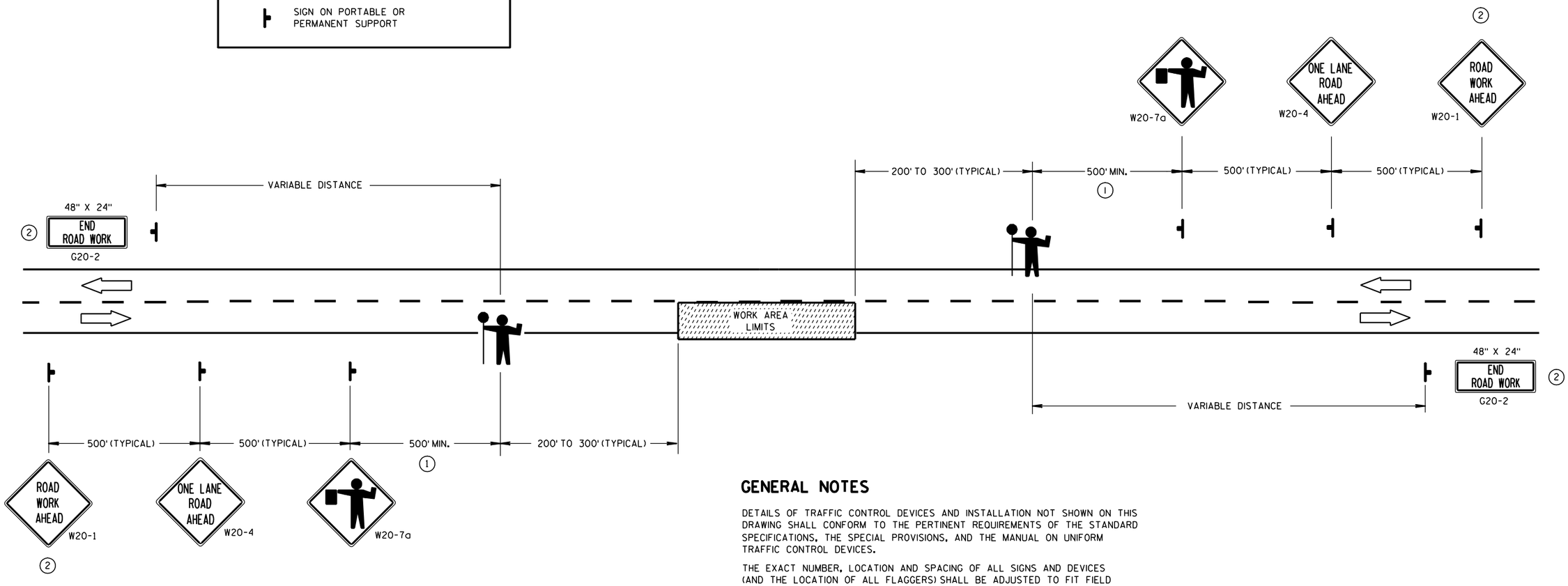
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT


W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.




(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

## GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

**TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/5/06 — DATE

/S/ Thomas N. Nathaam — STATE TRAFFIC ENGINEER

FHWA

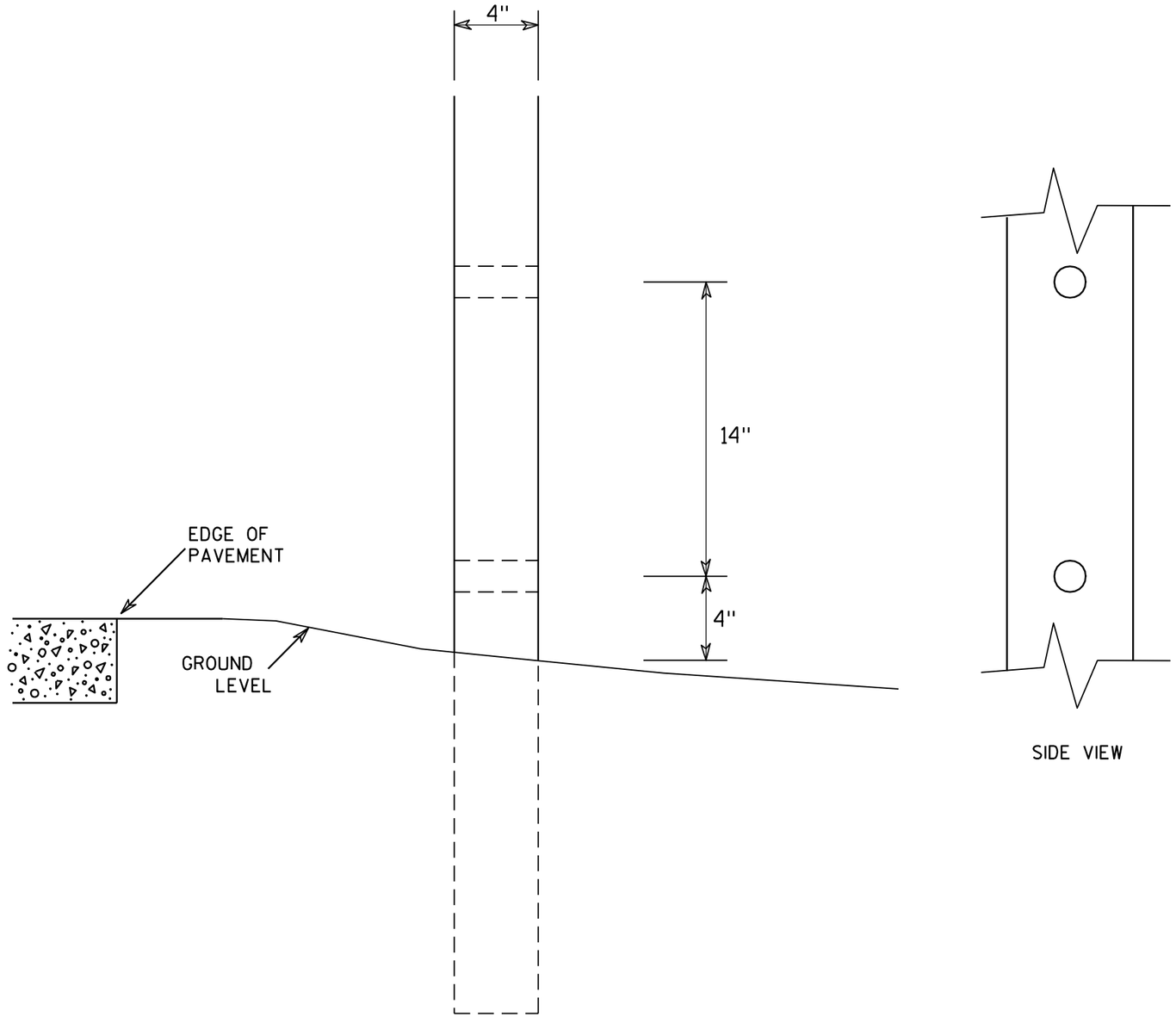




6



S.D.D. 15 C 12-3






SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

# 4 X 6 WOOD POST MODIFICATIONS

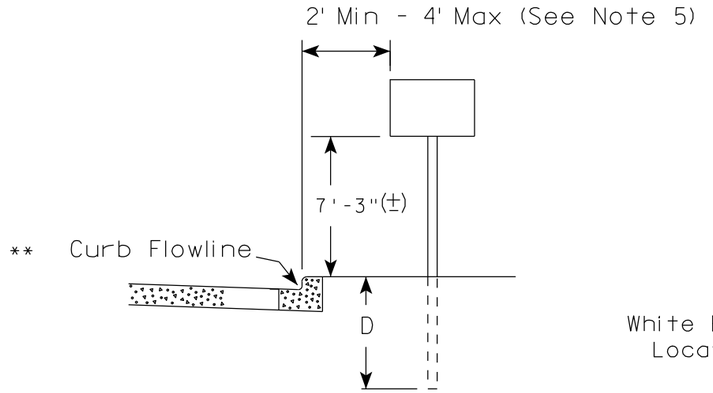
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

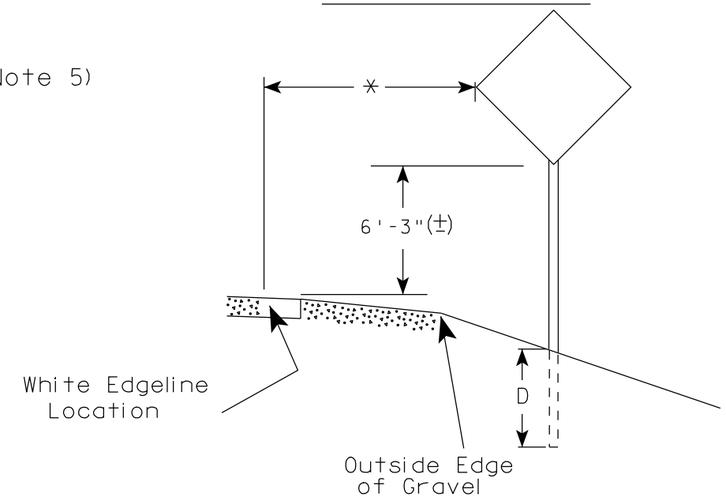
DATE 3/27/97 PLATE NO. A4-11.2

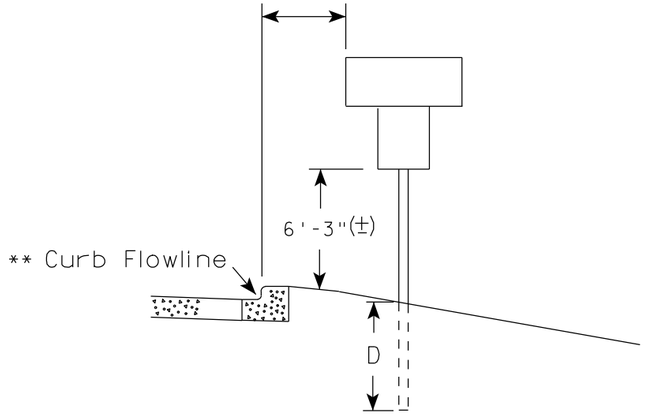
| PROJECT NO: | HWY: | COUNTY: | | SHEET NO: 11 | E |
|---|---|---|---|---|---|

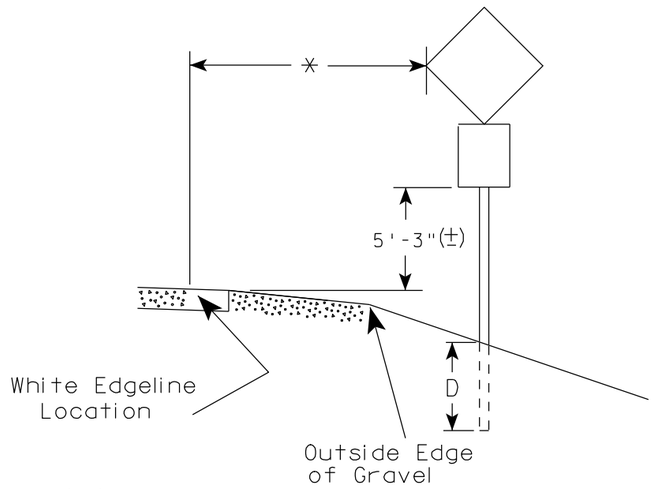
## URBAN AREA




## RURAL AREA (See Note 2)




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

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

## GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

## POST EMBEDMENT DEPTH

| Area of Sign Installation ( Sq. Ft. ) | D ( Min ) |
|---|---|
| 20 or Less | 4' |
| Greater than 20 | 5' |

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

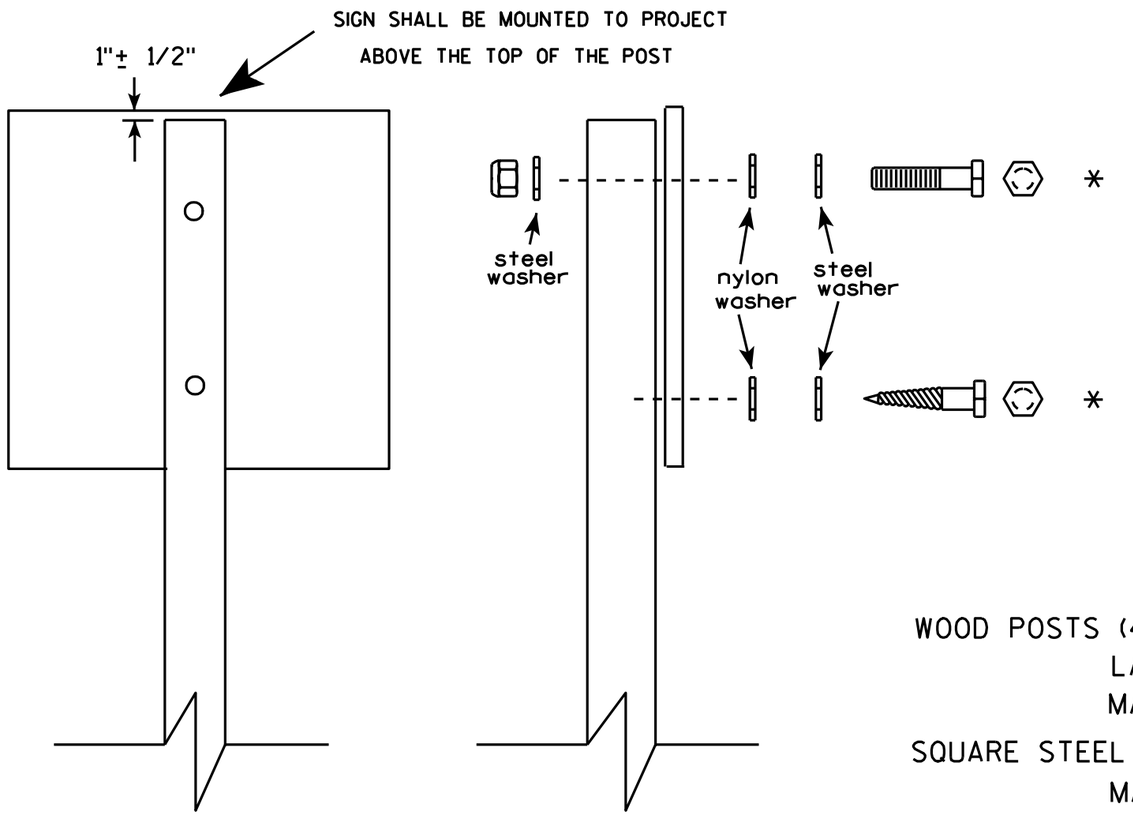
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16

7

7

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: 12 | E




Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

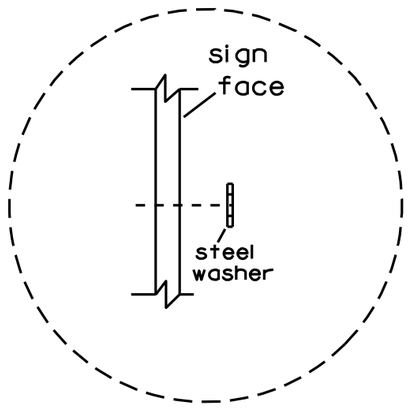
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.




Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

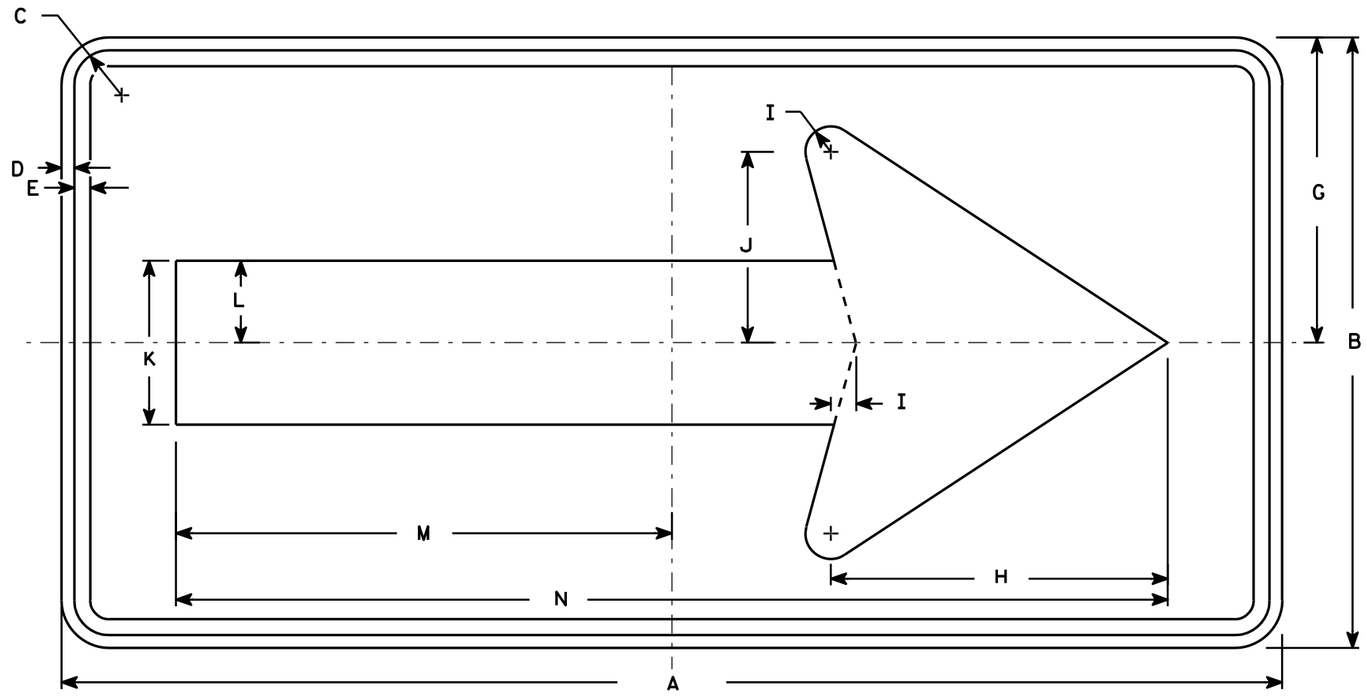
PROJECT NO:

SHEET NO: 13 E



FILE NAME : C:\Users\PROJECTS\tr_stdplate\A48.DGN PLOT DATE : 23-MAR-2010 10:15 PLOT BY : ditjph

WISDOT/CADDS SHEET 42




W1-6

## NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
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.

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36 | 18 | 1 1/8 | 3/8 | 3/8 | | 9 | 10 | 3/4 | 5 5/8 | 4 3/4 | 2 3/8 | 14 5/8 | 29 1/4 | | | | | | | | | | | | | 4.5 |
| 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 | | | | | | | | | | | | | 8.0 |
| 2M | 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 | | | | | | | | | | | | | 8.0 |
| 3 | 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 3/4 | | | | | | | | | | | | | 12.5 |
| 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 3/4 | | | | | | | | | | | | | 12.5 |
| 5 | 96 | 48 | 2 1/4 | 3/4 | 1 | | 24 | 26 1/2 | 2 | 15 | 13 | 6 1/2 | 39 | 78 | | | | | | | | | | | | | 32.0 |

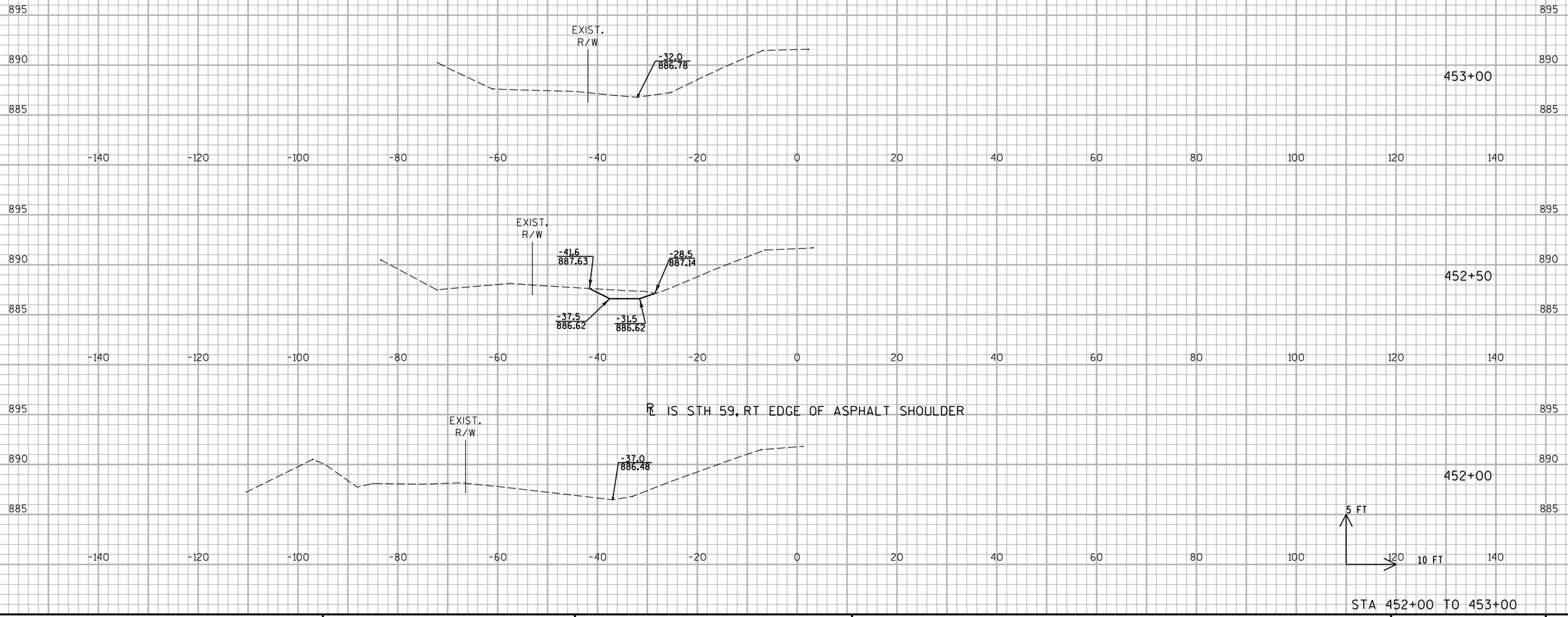
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

| PROJECT NO: | HWY: | COUNTY: | | SHEET NO: 14 |
|---|---|---|---|---|




STA 452+00 TO 453+00

| PROJECT NO: 3140-00-71 | HWY: STH 59 | COUNTY: ROCK | CROSS SECTIONS: | SHEET 15 | E |
|---|---|---|---|---|---|

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