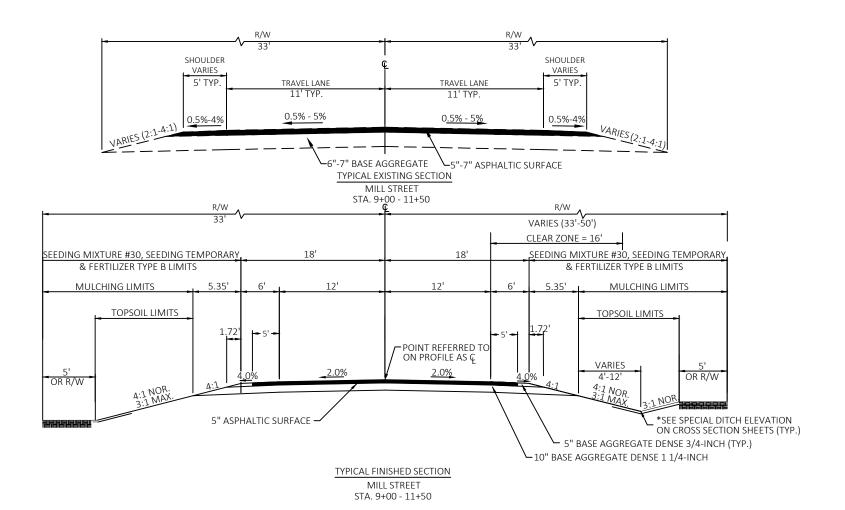
MARCH 2019 FEDERAL PROJECT STATE PROJECT ORDER OF SHEETS STATE OF WISCONSIN **PROJECT** CONTRACT PROJECT ID: WITH: 3849-00-7 3849-00-72 WISC 2019162 Section No. DEPARTMENT OF TRANSPORTATION Section No. Typical Sections and Details Section No Estimate of Quantities Section No. PLAN OF PROPOSED IMPROVEMENT Section No. Plan and Profile (Includes Erosion Control) Section No. Standard Detail Drawings Section No. **MILL STREET** 849-00-7 Section No. Section No. Computer Farthwork Data (WHITE RIVER BRIDGE B-64-0260) Section No. LOCAL STREET 62 TOTAL SHEETS = **WALWORTH COUNTY** STATE PROJECT NUMBER 3849-00-72 **ACCEPTED FOR** Praine 31 T-3-N RD PRAIRIE RD STRUCTURE B-64-199 DESIGN DESIGNATION A.A.D.T. 2019 = 2300 Lvons A.A.D.T. 2039 = 2800 D.H.V. = 336 D.D. = 60/40 STATZ = 3.1% T-2-N SPRING VALLEY DESIGN SPEED = 30 MPH E-31249 **ESALS** = 130,000 **MADISON CONVENTIONAL SYMBOLS** RD pringfiel **PLAN PROFILE END PROJECT** CORPORATE LIMITS GRADE LINE **BEGIN PROJECT** STA. 11+50.00 ORIGINAL GROUND PROPERTY LINE Y = 356,873.37STA. 9+00.00 MARSH OR ROCK PROFILE X = 812,571.72Y = 356,623.42LOT LINE (To be noted as such) X = 812,571.77White LIMITED HIGHWAY EASEMENT SPECIAL DITCH **EXISTING RIGHT OF WAY** ALVIN HOWE RD STATE OF WISCONSIN \Box GRADE ELEVATION 8 PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION WOODS CULVERT (Profile View) SLOPE INTERCEPT REPARED BY UTILITIES REFERENCE LINE WAF BAXTER & WOODMAN ELECTRIC MSA PROFESSIONAL SERVICES, INC. **EXISTING CULVERT** FIBER OPTIC STEELE RD PROPOSED CULVERT (Box or Pipe) **SANITARY SEWER** R-18-E COMBUSTIBLE FLUIDS LAYOUT STORM SEWER TELEPHONE WATER MARSH AREA 10/24/18 KKramer COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.047 MI. COUNTY COORDINATES, WALWORTH COUNTY, NAD83 (1991), IN U.S. **POWER POLE** Η SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES WOODED OR SHRUB AREA **TELEPHONE POLE** E FILE NAME : P:\9200\$\9290\$\9294\09294002\C3D\\$HEET\$PLAN\010101_TI.DWG PLOT BY: **ERIN JORDAN**



RUNOFF COEFFICIENT TABLE

| | HYDR | OLOGI | C SOIL GROU | Р | | | | | | | | |
|-----------------------|-----------------------------------|------------|-------------|-----------------------|------------|-----------------------|------------|------------|-----------------------|------------|------------|------------|
| | | А | | | В С | | | D | | | | |
| | SLOPE | 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 .22 | .16 .30 | .22 .38 | .12 .26 | .20 .34 | .27 .44 | .15 .30 | .24 .37 | .33 .50 | .19 .34 | .28 .41 | .38 .56 |
| MEDIAN STRIP- TURF | .19 .24 | .20 .26 | .24 .30 | .19 .25 | .22 .28 | .26 .33 | .20 .26 | .23 .30 | .30 .37 | .20 .27 | .25 .32 | .30 .40 |
| SIDE SLOPE: TURF | SIDE SECT E. 1.25 1.27 1.25 | | | | | .30 .38 | | | | | | |
| PAVEMENT: | | | | | | | | | | | | |
| ASPHALT | | | | | | .709 | 95 | | | | | |
| CONCRETE | | | | | | .809 | 95 | | | | | |
| BRICK | | | | | | .708 | 80 | | | | | |
| DRIVES, WALK | S | | | | | .758 | 35 | | | | | |
| ROOFS | | , | | • | , | .759 | 95 | • | • | | Ť | |
| GRAVEL ROAD | S, SHOU | JLDER: | S | • | | .406 | 50 | | • | | | • |

TOTAL PROJECT AREA = 0.57 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.44 ACRES

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 1.5 LBS PER 1000 SQUARE FEET. DO NOT STOCKPILE MATERIALS IN WETLANDS, WATERWAYS, OR FLOODPLAINS, SEED AND MULCH STOCKPILES, WINDROWS OF SOIL AND ANY GRADED AREA THAT WILL NOT ULTIMATELY BE PAVED, WITHIN 48 HOURS OF THE INITIAL OR ANY NEW DISTURBANCE IF PERMANENT FINAL RESTORATION WILL NOT OCCUR WITHIN 10-DAYS.

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

EXISTING SIGNS AND POSTS WILL BE REMOVED BY TOWN. CONTACT DAVE HELD TWO WEEKS PRIOR TO CONSTRUCTION AT (262) 763-7256.

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

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WALWORTH COUNTY. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88 DATUM USING NGS STATION B3NH0003 LOCATED IN LYONS, WI.

THE 5" ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 3" LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 2" UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO BRIDGE REMOVAL

TEMPORARY DITCH CHECKS, IF NEEDED, SHALL BE PLACED AS DIRECTED BY ENGINEER.

WETLANDS EXIST FROM STA. 9+05 - 9+70, LEFT, AND FROM STA. 10+20 - 10+75, RIGHT AND LEFT, THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPTS IN THESE AREAS.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: MICHAEL J. STATZ, P.E. 2901 INTERNATIONAL LANE, SUITE 300 MADISON, WI 53704-3133 PHONE: (608) 242-7779 EMAIL: MSTATZ@MSA-PS.COM

TOWN OF LYONS ATTN: KARLA HILL, TOWN CLERK 6339 HOSPITAL ROAD PO BOX 337 LYONS, WI 53148 PHONE: (262) 763-9936 EMAIL: TOWNOFLYONS@WI.RR.COM

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN: CRAIG WEBSTER 141 NW BARSTOW ROOM 180 WAUKESHA, WI 53188 PHONE: (262) 574-2141 EMAIL: CRAIG.WEBSTER@WISCONSIN.GOV UTILITIES TELEPHONE:

AT&T ATTN: MATT DINNAUER 2005 PEWAUKEE ROAD WAUKESHA, WI 53188 PHONE: (262) 896-7690

EMAIL: MD9542@ATT.COM

ELECTRIC: WE ENERGIES ATTN: ALEX DANTINNE 500 S 116TH STREET WEST ALLIS, WI 53214 PHONE: (920) 621-6903

EMAIL: ALEX.DANTINNE@WE-ENERGIES.COM

GAS: WE ENERGIES ATTN:SCOTT HOLSTEIN 700 S. KANE STREET BURLINGTON, WI 53105 PHONE: (262) 763-1084

EMAIL: SCOTT.HOLSTEIN@WE-ENERGIES.COM

COMMUNICATIONS: **CHARTER COMMUNICATIONS** ATTN: RANDY WOLFGRAM 3520 E. DESTINATION DRIVE APPLETON, WI 54915 PHONE: (920) 378-0378

EMAIL: RANDY.WOLFGRAM@CHARTER.COM

SANITARY:

LYONS SANITARY DISTRICT NO. 2 ** ATTN: BOB BIEDRZYCKI 5996 CLEARWATER COURT PO BOX 237

LYONS, WI 53148 PHONE: (262) 763-4627 EMAIL: LYNSDT2@EXECPC.COM

> **-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

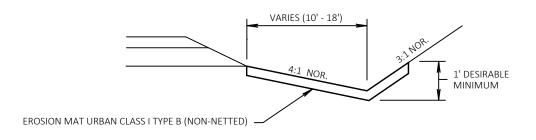


PROJECT NO: 3849-00-72 HWY: MILL STREET COUNTY: WALWORTH TYPICAL SECTION AND GENERAL NOTES **SHEET** Ε PLOT NAME P:\9200S\9290S\9294\09294002\C3D\SHEETSPLAN\020101 GN TS.DWG 8/26/2018 1:15 PM PLOT BY: ERIN JORDAN PLOT SCALE : FILE NAME ########## WISDOT/CADDS SHEET 42

LAYOUT NAME - TS & GN_1

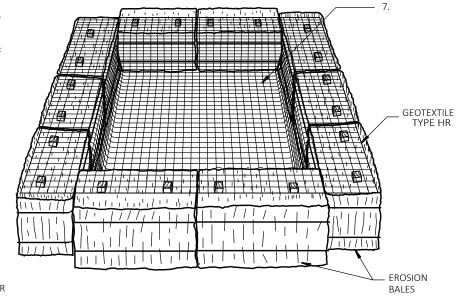
SHORELINE

RIPRAP HEAVY



EROSION MAT DITCH DETAIL NE QUADRANT DITCH

- 1. CONTRACTOR SHALL PUMP WATER FROM WORK AREA EXCAVATION TO BASIN PRIOR TO DISCHARGING.
- 2. BASIN SHALL BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT SITE.
- 3. SIZE TO BE DETERMINED BY THE ENGINEER IN THE FIELD BASED ON WATER QUANTITY AND QUALITY.
- 4. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED, USED GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT SITE AT NO COST TO THE DEPARTMENT.
- 5. GEOTEXTILE TYPE HR TO BE PAID FOR SEPARATELY.
- 6. EROSION BALES TO BE PAID FOR SEPARATELY.
- 7. DEWATERING BAG SHALL BE PLACED INSIDE TEMPORARY SETTLING BASIN TO MEET WATER QUALITY DISCHARGE STANDARDS.
- 8. DO NOT PLACE TEMPORARY SETTLING BASIN WITHIN WETLAND AREA.



STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM HEIGHT OF BALES = 1.5 FT. SOLUTION: SV (C.F.) = 16 X 50 SV = 800 C.F. 800 C.F. 1.5 FT. = 533 S.F. USE A 20 FT. X 27 FT. BASIN

TEMPORARY SETTLING BASIN

COUNTY: WALWORTH

CONSTRUCTION DETAILS

PLOT SCALE : ##########



PLAN VIEW



WISDOT/CADDS SHEET 42

Ε

ENHANCED TURBIDITY BARRIER DETAIL

SHALL BE CONTINUOUS WITH NO SPACING. WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED. 4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELECTIONS,

(2) ROCK BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY

THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. ROCK BAGS

CABLE -

2' MIN.

FARRIC

(6) **BALLAST**

SECTION A-A

DANGER

BUOY

(EXAMPLE

NORMAL WATER

SURFACE ELEVATION

ELEVATIONS.

ANCHOR -

STREAM BED

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER

PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

(5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD, MINIMIZE BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

6 ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY

7 INSTALL TURBIDITY BARRIER WITH THE BALLAST PLACED NO MORE THAN 1' AWAY FROM THE TOE OF THE RIPRAP.

BALLAST

2' MIN.

4' MAX.

ESTIMATED HIGH WATER

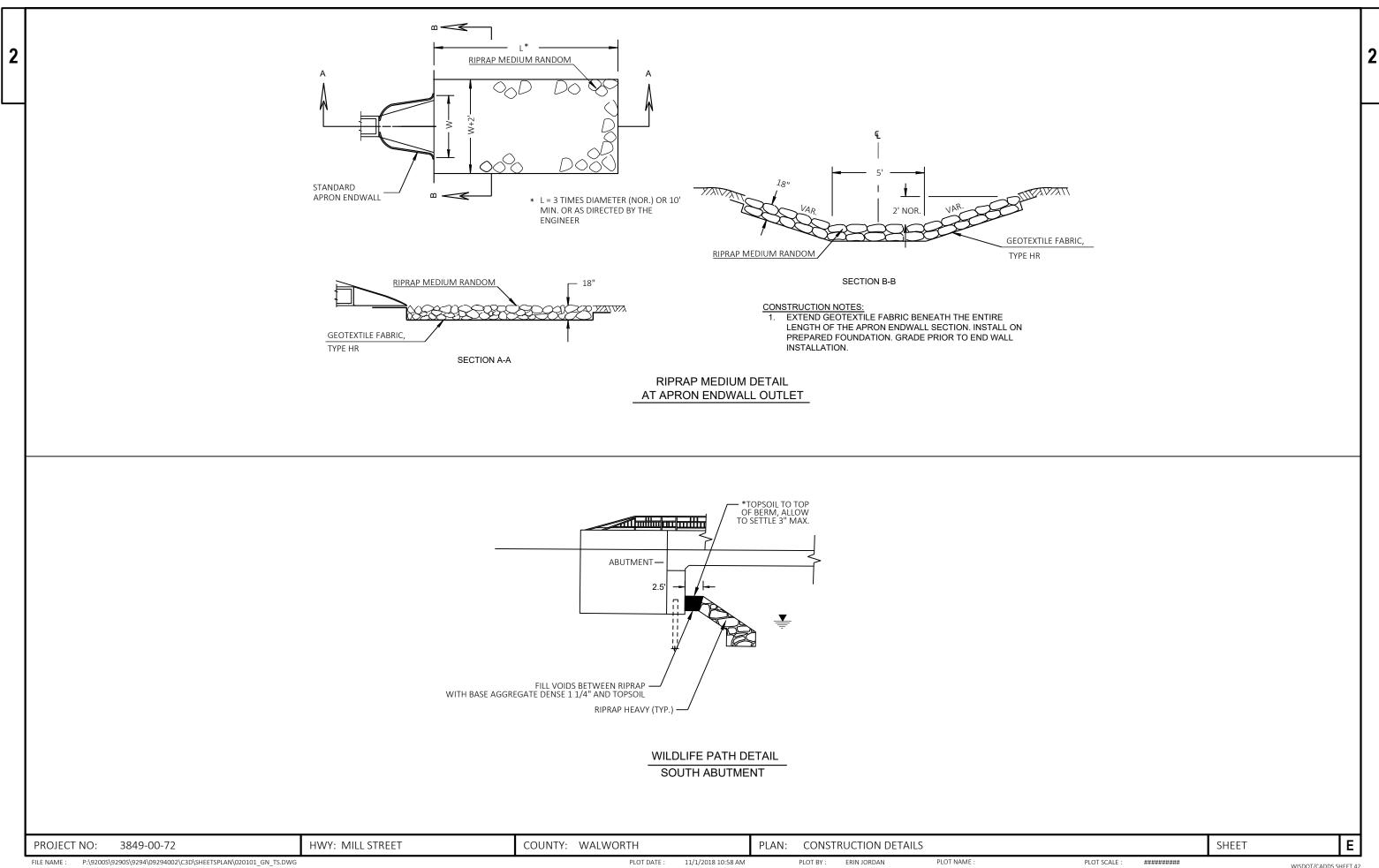
WORK AREA

ROCK BAGS 2

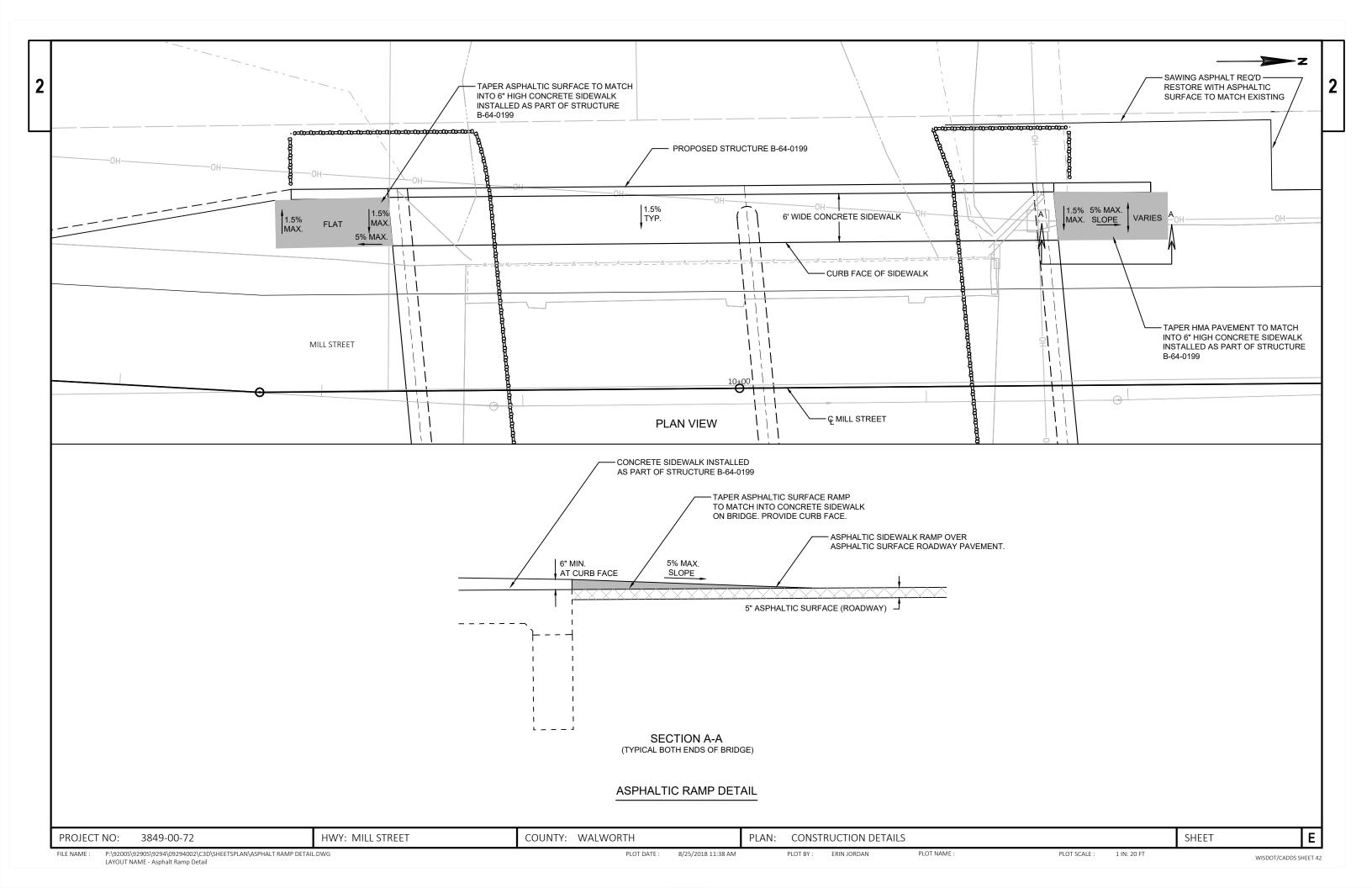
(40 LB. MIN.)

CONSTRUCTION PERIOD SANCHOR

2 ROCK BAGS



WISDOT/CADDS SHEET 42 LAYOUT NAME - CD_2



0084

628.1504 Silt Fence

Estimate Of Quantities By Plan Sets

Page 1

| | | | | | 3849-00-72 |
|------|------------|--|------|------------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0002 | 201.0105 | Clearing | STA | 3.000 | 3.000 |
| 0004 | 201.0205 | Grubbing | STA | 3.000 | 3.000 |
| 0006 | 203.0600.S | Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00 | LS | 1.000 | 1.000 |
| 0010 | 205.0100 | Excavation Common | CY | 434.000 | 434.000 |
| 0012 | 206.1000 | Excavation for Structures Bridges (structure) 01. B-64-199 | LS | 1.000 | 1.000 |
| 0016 | 210.1500 | Backfill Structure Type A | TON | 420.000 | 420.000 |
| 0018 | 213.0100 | Finishing Roadway (project) 01. 3849-00-72 | EACH | 1.000 | 1.000 |
| 0022 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 12.000 | 12.000 |
| 0024 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 430.000 | 430.000 |
| 0026 | 455.0605 | Tack Coat | GAL | 38.000 | 38.000 |
| 0028 | 465.0105 | Asphaltic Surface | TON | 216.000 | 216.000 |
| 0030 | 502.0100 | Concrete Masonry Bridges | CY | 402.000 | 402.000 |
| 0032 | 502.3200 | Protective Surface Treatment | SY | 444.000 | 444.000 |
| 0034 | 502.3210 | Pigmented Surface Sealer | SY | 45.000 | 45.000 |
| 0038 | 505.0400 | Bar Steel Reinforcement HS Structures | LB | 7,230.000 | 7,230.000 |
| 0040 | 505.0600 | Bar Steel Reinforcement HS Coated Structures | LB | 45,550.000 | 45,550.000 |
| 0042 | 511.1200 | Temporary Shoring (structure) 01. B-64-199 | SF | 250.000 | 250.000 |
| 0044 | 513.7021 | Railing Steel Type C4 01. B-64-199 | LF | 105.000 | 105.000 |
| 0046 | 513.7084 | Railing Steel Type NY4 01. B-64-199 | LF | 109.000 | 109.000 |
| 0048 | 516.0500 | Rubberized Membrane Waterproofing | SY | 24.000 | 24.000 |
| 0050 | 520.1015 | Apron Endwalls for Culvert Pipe 15-Inch | EACH | 1.000 | 1.000 |
| 0052 | 550.0020 | Pre-Boring Rock or Consolidated Materials | LF | 291.000 | 291.000 |
| 0054 | 550.1100 | Piling Steel HP 10-Inch X 42 Lb | LF | 387.000 | 387.000 |
| 0056 | 603.8000 | Concrete Barrier Temporary Precast Delivered | LF | 50.000 | 50.000 |
| 0058 | 603.8125 | Concrete Barrier Temporary Precast Installed | LF | 50.000 | 50.000 |
| 0060 | 606.0200 | Riprap Medium | CY | 1.000 | 1.000 |
| 0062 | 606.0300 | Riprap Heavy | CY | 190.000 | 190.000 |
| 0064 | 611.8110 | Adjusting Manhole Covers | EACH | 1.000 | 1.000 |
| 0066 | 612.0406 | Pipe Underdrain Wrapped 6-Inch | LF | 240.000 | 240.000 |
| 0068 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. | EACH | 1.000 | 1.000 |
| 3000 | 010.0100 | 3849-00-72 | | | |
| 0072 | 619.1000 | Mobilization | EACH | 0.720 | 0.720 |
| 0074 | 624.0100 | Water | MGAL | 24.000 | 24.000 |
| 0076 | 625.0100 | Topsoil | SY | 195.000 | 195.000 |
| 0078 | 625.0500 | Salvaged Topsoil | SY | 275.000 | 275.000 |
| 0800 | 627.0200 | Mulching | SY | 525.000 | 525.000 |
| 0082 | 628.1104 | Erosion Bales | EACH | 40.000 | 40.000 |
| | | | | | |

LF

245.000

245.000

Estimate Of Quantities By Plan Sets

Page 2

| | | | | | 3849-00-72 |
|------|----------|--|------|-----------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0086 | 628.1520 | Silt Fence Maintenance | LF | 245.000 | 245.000 |
| 8800 | 628.1905 | Mobilizations Erosion Control | EACH | 2.000 | 2.000 |
| 0090 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 2.000 | 2.000 |
| 0092 | 628.2008 | Erosion Mat Urban Class I Type B | SY | 70.000 | 70.000 |
| 0094 | 628.6005 | Turbidity Barriers | SY | 200.000 | 200.000 |
| 0096 | 628.7504 | Temporary Ditch Checks | LF | 20.000 | 20.000 |
| 0098 | 629.0210 | Fertilizer Type B | CWT | 0.450 | 0.450 |
| 0100 | 630.0130 | Seeding Mixture No. 30 | LB | 15.000 | 15.000 |
| 0104 | 630.0200 | Seeding Temporary | LB | 20.000 | 20.000 |
| 0106 | 633.5100 | Markers Row | EACH | 7.000 | 7.000 |
| 0110 | 634.0612 | Posts Wood 4x6-Inch X 12-FT | EACH | 3.000 | 3.000 |
| 0112 | 637.2230 | Signs Type II Reflective F | SF | 12.750 | 12.750 |
| 0114 | 642.5001 | Field Office Type B | EACH | 0.720 | 0.720 |
| 0116 | 643.0420 | Traffic Control Barricades Type III | DAY | 2,328.000 | 2,328.000 |
| 0118 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 3,880.000 | 3,880.000 |
| 0120 | 643.0900 | Traffic Control Signs | DAY | 1,940.000 | 1,940.000 |
| 0122 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0124 | 645.0111 | Geotextile Type DF Schedule A | SY | 86.000 | 86.000 |
| 0126 | 645.0120 | Geotextile Type HR | SY | 456.000 | 456.000 |
| 0128 | 646.1005 | Marking Line Paint 4-Inch | LF | 1,000.000 | 1,000.000 |
| 0130 | 650.4500 | Construction Staking Subgrade | LF | 168.000 | 168.000 |
| 0132 | 650.5000 | Construction Staking Base | LF | 168.000 | 168.000 |
| 0136 | 650.6500 | Construction Staking Structure Layout (structure) 01. B-64-0199 | LS | 1.000 | 1.000 |
| 0140 | 650.9910 | Construction Staking Supplemental Control (project) 01. 3849-00-72 | LS | 1.000 | 1.000 |
| 0144 | 650.9920 | Construction Staking Slope Stakes | LF | 168.000 | 168.000 |
| 0146 | 690.0150 | Sawing Asphalt | LF | 190.000 | 190.000 |
| 0148 | 715.0502 | Incentive Strength Concrete Structures | DOL | 2,412.000 | 2,412.000 |
| | | • | | | |

MAINTENANCE AND REPAIR OF HAUL ROADS

(618.0100) DESCRIPTION

CATEGORY EACH 0030 PROJECT 3849-00-72 PROJECT TOTAL

CLEARING & GRUBBING (201.0105) (201.0205) CLEARING GRUBBING STATION TO STATION LOCATION STA STA 9+00 11+50 PROJECT TOTALS

CATEGORY

BASE AGGREGATE DENSE

| | | | | | * |
|-------------|--------------|--------------|------------|------------|------------|
| | | | (305.0110) | (305.0120) | (624.0100) |
| | | | 3/4-INCH | 1 1/4-INCH | WATER |
| CATEGORY | STATION | TO STATION | TON | TON | MGAL |
| 0010 | 9+00.00 | 9+58.75 | 7 | 155 | 3 |
| | 10+41.25 | 11+50.00 | 5 | 275 | 6 |
| | PROJEC | T TOTALS | 12 | 430 | 9 |
| *ADDITIONAL | QUANTITIES I | FOUND ELSEWH | ERE | | |

ASPHALTIC SURFACE

| | PROJEC1 | TOTALS | 38 | 216 | |
|----------|----------|------------|------------|------------|----------------------|
| | 10+41.25 | 10+55.00 | 0 | 2 | ASPHALTIC SLOPE (LT) |
| | 9+40.00 | 9+58.75 | 0 | 2 | ASPHALTIC SLOPE (LT) |
| | 10+41.25 | 11+50.00 | 26 | 144 | - |
| 0010 | 9+00.00 | 9+58.75 | 12 | 68 | - |
| CATEGORY | STATION | TO STATION | GAL | TON | NOTES |
| | | | COAT | SURFACE | |
| | | | TACK | ASPHALTIC | |
| | | | (455.0605) | (465.0105) | |
| | | | | | |

CONCRETE BARRIER TEMPORARY PRECAST

CULVERT PIPE

LOCATION 31' RT

PROJECT TOTALS

STATION

11+10

0010

(520.1015)

APRON ENDWALLS

FOR CULVERT PIPE

15-INCH

EACH

| PROJECT | TOTALS | 50 | 50 |
|----------|----------|------------|------------|
| 0010 | PIER, LT | 50 | 50 |
| CATEGORY | LOCATION | LF | LF |
| | | DELIVERED | INSTALLED |
| | | (603.8000) | (603.8125) |
| | | | |

ADJUSTING MANHOLE COVERS

| | PROJE | CT TOTAL | 1 |
|----------|---------|----------|------------|
| 0030 | 11+24 | 3' LT | 1 |
| CATEGORY | STATION | LOCATION | EACH |
| | | | (611.8110) |

EARTHWORK PROJECT I.D. 3849-00-72

| Division | From/To Station | Location | Common Excavation (1) | (item # 205.0100) | Salvaged /Unusabl e Pavemen t Material (4) | Available Material (5) | Unexpanded Fill | Expanded Fill (6) | Mass Ordinate +/- (7) | Waste | Borrow | Comment: |
|-------------|-----------------|-------------------|-----------------------------|--------------------------|---|---------------------------|--------------------|----------------------|-----------------------------|-------|------------------|----------|
| | | | Cut (2) | EBS Excavation (3) | | | | Factor | | | (item #208.0100) | |
| 1 | 9+00 - 9+59 | South Mill Street | 185 | 0 | 0 | 185 | 4 | 5 | 180 | 180 | -180 | |
| 2 | 10+41 - 11+50 | North Mill Street | 249 | 0 | 0 | 249 | 4 | 5 | 244 | 244 | -244 | |
| | STRUC | TURE B-64-0199 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | UNDIS | TRIBUTED EBS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Grand Total | | | 434 | 0 | 0 | 434 | 8 | 10 | 424 | 424 | -424 | |
| | | | 4: | 34 | | | | | | | | |

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Breaker Run material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) Expanded Fill. Factor = 1.30
- 7) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

SHEET PROJECT NO: 3849-00-72 HWY: MILL STREET COUNTY: WALWORTH MISCELLANEOUS QUANTITIES

E

CATEGORY

| 100 | |
|-----|--|
| 80 | |

| | | | | | | | | | | * | |
|----------|----------|------------|----------|-----------------------|------------------------|------------------------|--------------------------|-----------------------|-----------------------|---------------------|------------------|
| | | | | (625.0100) TOPSOIL | (625.0500) SALVAGED | (627.0200) MULCHING | (629.0210) FERTILIZER | (630.0130) SEEDING | (630.0200) SEEDING | (624.0100) WATER | |
| | | | | | TOPSOIL | | TYPE B | MIXTURE NO. 30 | TEMPORARY | | |
| CATEGORY | STATION | TO STATION | LOCATION | SY | SY | SY | CWT | LB | LB | MGAL | NOTES |
| 0010 | 9+00 | 9+58.75 | RT | - | 30 | 65 | 0.05 | 2 | 3 | 2 | - |
| | 9+00 | 9+58.75 | LT | - | 30 | 30 | 0.05 | 1 | 2 | 1 | - |
| | 9+60 | 9+60 | RT, LT | 163 | - | - | - | = | - | - | CRITTER CROSSING |
| | 10+41.25 | 11+50 | RT | - | 120 | 270 | 0.20 | 6 | 9 | 7 | - |

95

275

160

525

33

195

FINISHING ITEMS

PROJECT TOTALS *ADDITIONAL QUANTITIES FOUND ELSEWHERE

UNDISTRIBUTED

| | | RIPRAP | | |
|----------|---------|----------|------------|------------|
| | | | | * |
| | | | (606.0200) | (645.0120) |
| | | | RIPRAP | GEOTEXTILE |
| | | | MEDIUM | TYPE HR |
| CATEGORY | STATION | LOCATION | CY | SY |
| 0010 | 11+10 | RT | 1 | 6 |
| | PROJECT | TOTALS | 1 | 6 |

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

| MOBILIZATIONS EROSION CONTROL | | | | | | | |
|-------------------------------|--------------------|------------|-------------------------|--|--|--|--|
| | | (628.1905) | (628.1910) EMERGENCY | | | | |
| EGORY | DESCRIPTION | EACH | EACH | | | | |
| 010 | PROJECT 3849-00-72 | 2 | 2 | | | | |
| | PROJECT TOTALS | 2 | 2 | | | | |

0.15

0.45

15

20

15

| PROJECT TOTAL 20 | | | | |
|------------------|---------------|----------|------------|--|
| | UNDISTRIBUTED | | | |
| 0010 | 10+80 | RT | 10 | |
| CATEGORY | STATION | LOCATION | LF | |
| | | | (628.7504) | |

TEMPORARY DITCH CHECKS

| | TEMORARY SET | TLING BASIN | |
|-------------|------------------|-------------|------------|
| , | | | * |
| | | (628.1104) | (645.0120) |
| | | EROSION | GEOTEXTILE |
| | | BALES | TYPE HR |
| CATEGORY | LOCATION | EACH | SY |
| 0010 | B-64-0199 | 40 | 80 |
| | PROJECT TOTALS | 40 | 80 |
| *ADDITIONAL | QUANTITIES FOUND | FLSEWHER | |

| | SILT FENCE | | | | |
|----------|----------------|-------------|----------|-----|---------------------------|
| | | | | | (628.1520) MAINTENANCE |
| CATEGORY | STATION | TO STATION | LOCATION | LF | LF |
| 0010 | 9+00 | 9+58.75 | RT | 70 | 70 |
| | 10+41.25 | 11+50 | RT | 135 | 135 |
| | | UNDISTRIBUT | ED | 40 | 40 |
| | PROJECT TOTALS | | | 245 | 245 |

| | | | | (628.2008) | | |
|----------|---------------|------------|----------|------------|--|--|
| CATEGORY | STATION | TO STATION | LOCATION | SY | | |
| 0010 | 10+55 | 11+10 | RT | 56 | | |
| 1 | NDISTRIBUTE | D | | 14 | | |
| | PROJECT TOTAL | | | | | |
| • | | | | | | |
| | | | | | | |

EROSION MAT URBAN CLASS I TYPE B

| | TURBIDITY BARRIERS | |
|----------|--------------------|------------------|
| | | (628.6005) |
| CATEGORY | LOCATION | (028.0003) SY |
| 0010 | SOUTH ABUT | 80 |
| | NORTH ABUT | 80 |
| | UNDISTRIBUTED | 40 |
| | PROJECT TOTAL | 200 |

SHEET HWY: MILL STREET COUNTY: WALWORTH MISCELLANEOUS QUANTITIES PROJECT NO: 3849-00-72

Ε

MARKERS ROW

| | R/W | | | (633.5100) |
|----------|-----------|----------|-----------|------------|
| CATEGORY | POINT NO. | STATION | LOCATION | EACH |
| 0010 | 1 | 9+00.00 | 30.34' LT | 1 |
| | 2 | 11+50.00 | 34.12' LT | 1 |
| | 3 | 11+50.00 | 31.88' RT | 1 |
| | 4 | 11+00.00 | 50.00' RT | 1 |
| | 5 | 10+25.00 | 50.00' RT | 1 |
| | 6 | 10+25.00 | 32.51' RT | 1 |
| | 7 | 9+00.00 | 35.82' RT | 1 |
| | | PROJE | CT TOTAL | 7 |

MARKING LINE PAINT 4-INCH

| | | | | (646.1005) | | |
|---|----------|---------|------------|------------|---------|--|
| | | | | (YELLOW) | (WHITE) | _ |
| | CATEGORY | STATION | TO STATION | LF | LF | NOTES |
| Ξ | 0010 | 9+00 | 11+50 | 500 | 500 | SOLID DOUBLE YELLOW CENTERLINE & EDGELINES |
| | | PROJ | IECT TOTAL | 1,0 | 00 | |

PERMANENT SIGNING

| · | • | | PROJECT | TOTALC | 12.75 | 3 | · |
|----------|---------|----------|---------|---------|---------------|------------|-------------------|
| | 10+55 | RT | W5-52L | 12"x36" | 3.00 | 1 | BRIDGE HASH MARKS |
| | 9+48 | RT | W5-52R | 12"x36" | 3.00 | 1 | BRIDGE HASH MARKS |
| 0010 | 9+10 | LT | S1-1 | 36"x36" | 6.75 | 1 | SCHOOL ZONE |
| CATEGORY | STATION | LOCATION | CODE | SIZE | SF | EACH | NOTES |
| | | | SIGN | | | 12-FT | |
| | | | | | REFLECTIVE F | 4X6-INCH X | |
| | | | | | SIĞNS TYPÉ II | POSTS WOOD | |
| | | | | | (637.2230) | (634.0612) | |

CONSTRUCTION STAKING

| | PROJEC | T TOTALS | 168 | 168 | 1 | 168 |
|----------|----------|------------|------------|------------|---------------|------------|
| | 10+41.25 | 11+50.00 | 109 | 109 | - | 109 |
| 0010 | 9+00.00 | 9+58.75 | 59 | 59 | - | 59 |
| CATEGORY | STATION | TO STATION | LF | LF | LS | LF |
| | | | | | 3849-00-72 | STAKES |
| | | | SUBGRADE | BASE | CONTROL | SLOPE |
| | | | | | SUPPLEMENTAL | = |
| | | | (650.4500) | (650.5000) | (650.9910.01) | (650.9920) |
| | | | | | | |

TRAFFIC CONTROL

| | | | (643.5000) | | (643.0420) | | (643.0705) | | (643.0900) |
|----------|---------------------------------|------|------------|------------|------------|---------|------------|---------|------------|
| | | | | TRAFFIC | TRAFFIC | TRAFFIC | TRAFFIC | TRAFFIC | TRAFFIC |
| | | | | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| | | | | BARRICADES | BARRICADES | WARNING | WARNING | SIGNS | SIGNS |
| | | | | TYPE III | TYPE III | LIGHTS | LIGHTS | | |
| | | | | | | TYPE A | TYPE A | | |
| CATEGORY | LOCATION | DAYS | EACH | EACH | DAYS | EACH | DAYS | EACH | DAYS |
| 0010 | PROJECT 3849-00-72 | - | 1 | - | - | - | - | - | - |
| | SPRING VALLEY ROAD INTERSECTION | 97 | - | 2 | 194 | 4 | 388 | 2 | 194 |
| | CLEARWATER COURT INTERSECTION | 97 | - | 2 | 194 | 4 | 388 | 2 | 194 |
| | BEGINNING OF PROJECT | 97 | - | 7 | 679 | 10 | 970 | 5 | 485 |
| | END OF PROJECT | 97 | - | 7 | 679 | 10 | 970 | 5 | 485 |
| | WATER STREET | 97 | - | 2 | 194 | 4 | 388 | 2 | 194 |
| | STH 36 INTERSECTION | 97 | - | 2 | 194 | 4 | 388 | 2 | 194 |
| | UNDISTRUBUTED | 97 | - | 2 | 194 | 4 | 388 | 2 | 194 |
| | PROJECT TOTALS | | 1 | _ | 2,328 | _ | 3,880 | _ | 1,940 |

SAWING ASPHALT

| | PROJE | CITOTAL | 190 | |
|----------|---------|------------|-----------|----------|
| | DDO IE | CT TOTAL | 190 | - |
| | 11+50 | - | 38 | - |
| | 10+40 | 11+50 | 118 | DRIVEWAY |
| 0010 | 9+00 | - | 34 | - |
| CATEGORY | STATION | TO STATION | LF | NOTES |
| | | | (690.0150 |)) |
| | | | | |

SHEET PROJECT NO: 3849-00-72 HWY: MILL STREET COUNTY: WALWORTH MISCELLANEOUS QUANTITIES

P:\9200\$\9290\$\9294\09294002\C3D\\$HEET\$PLAN\030201-MQ BORDER.DWG LAYOUT NAME - 030201-mq

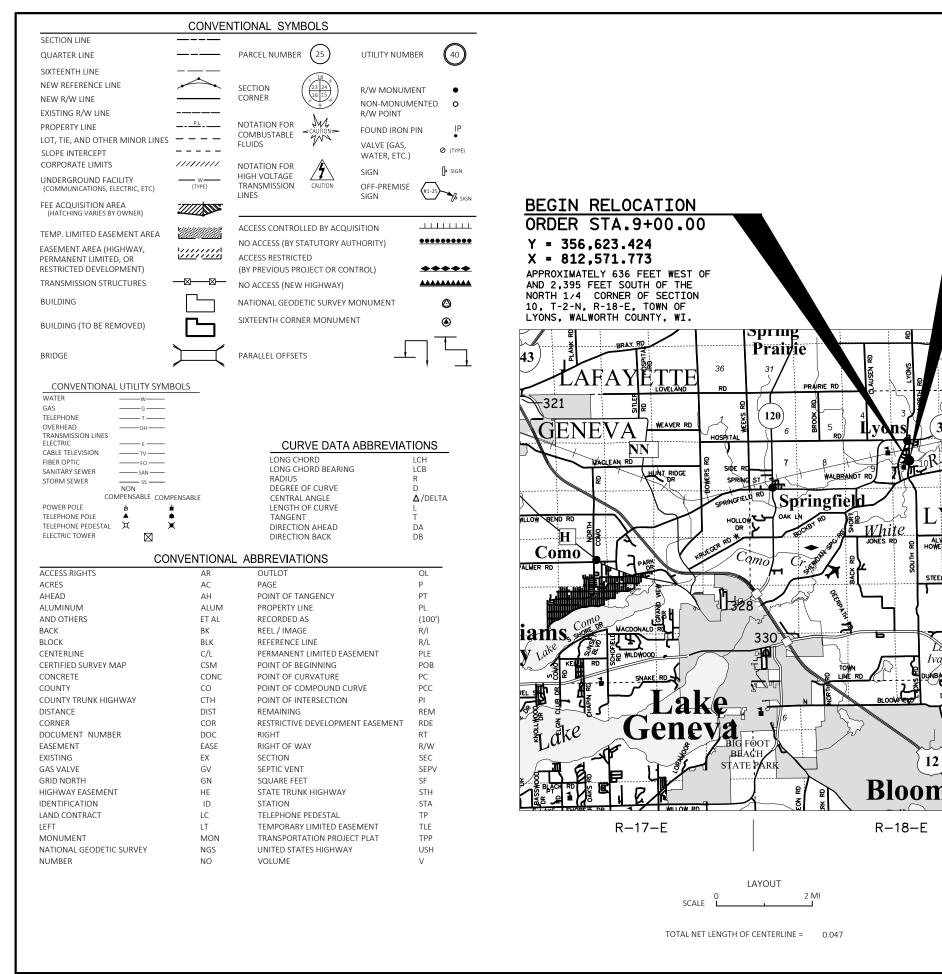
FILE NAME :

PLOT DATE: 8/27/2018 1:28 PM

PLOT BY: JASON DOLENS

PLOT NAME :

WISDOT/CADDS SHEET 42



R/W PROJECT NUMBER
SHEET TOTAL NUMBER SHEETS

3849-00-02
4.01
2

PLAT OF RIGHT OF WAY REQUIRED FOR

TOWN OF LYONS, MILL STREET WHITE RIVER BRIDGE (B-64-0260)

LOCAL STREET

WALWORTH COUNTY

CONSTRUCTION NUMBER: 3849-00-72

CAUTION:

THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

NOTES:

END RELOCATION

Y = 356,873.366

X = 812,571.722

WALWORTH COUNTY, WI.

7

PLOT NAME

ORDER STA.11+50.00

APPROXIMATELY 636 FEET WEST OF

NORTH 1/4 CORNER OF SECTION 10,

T-2-N, R-18-E, TOWN OF LYONS,

AND 2,145 FEET SOUTH OF THE

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE SYSTEM COORDINATES (WCCS), WALWORTH COUNTY, NADB3 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BRARINGS. AND GRID DISTANCES AND DISTANCES WAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED. AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS
REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SHRETTHIF FOR AN ACCURATE FIFLD SHREY.

EXISTING RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR HOSPITAL ROAD IS ESTABLISHED BY DEGEN PLAT OF SURVEY AND KROTT PLAT OF SURVEY.

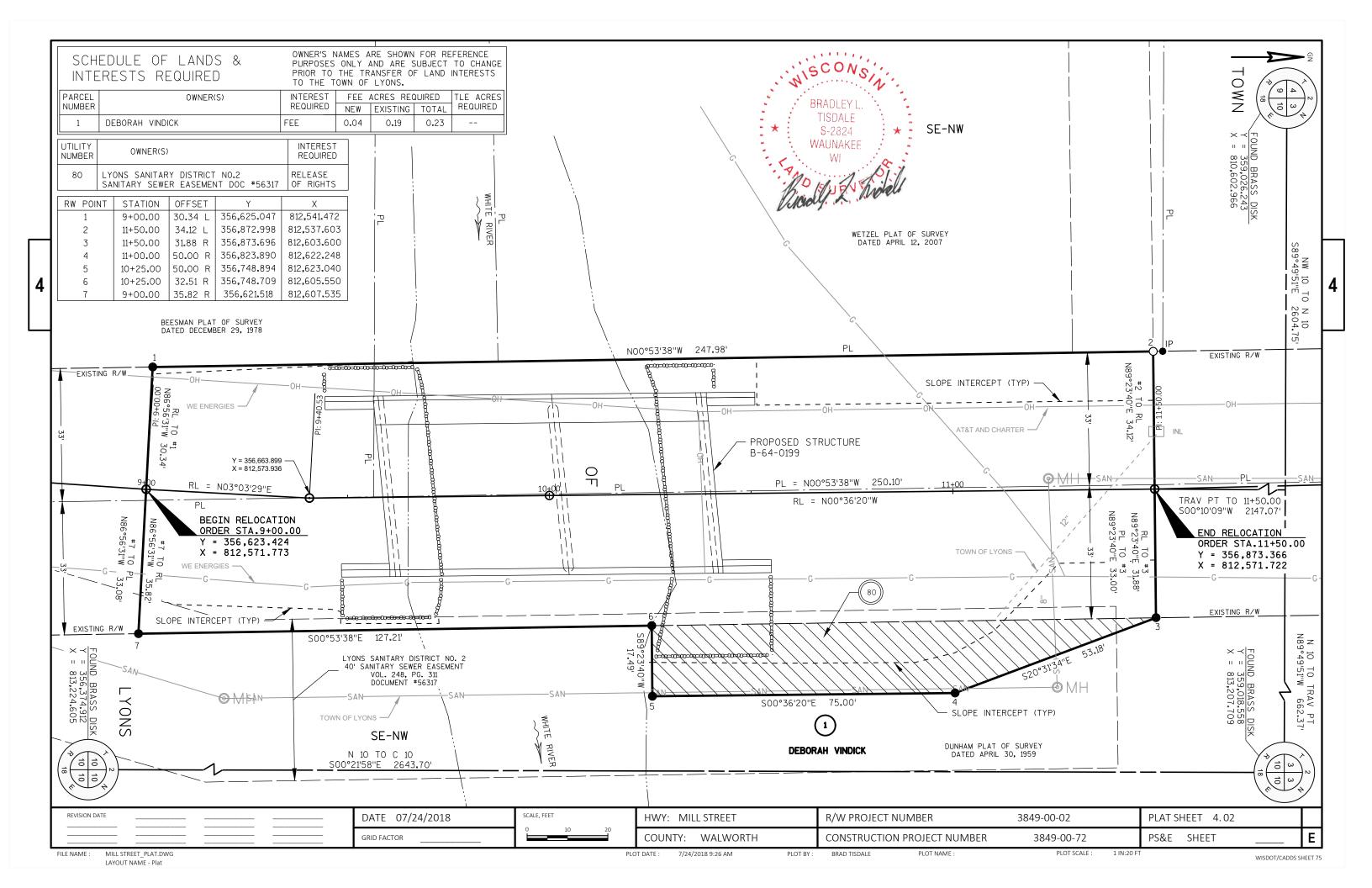
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLE) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

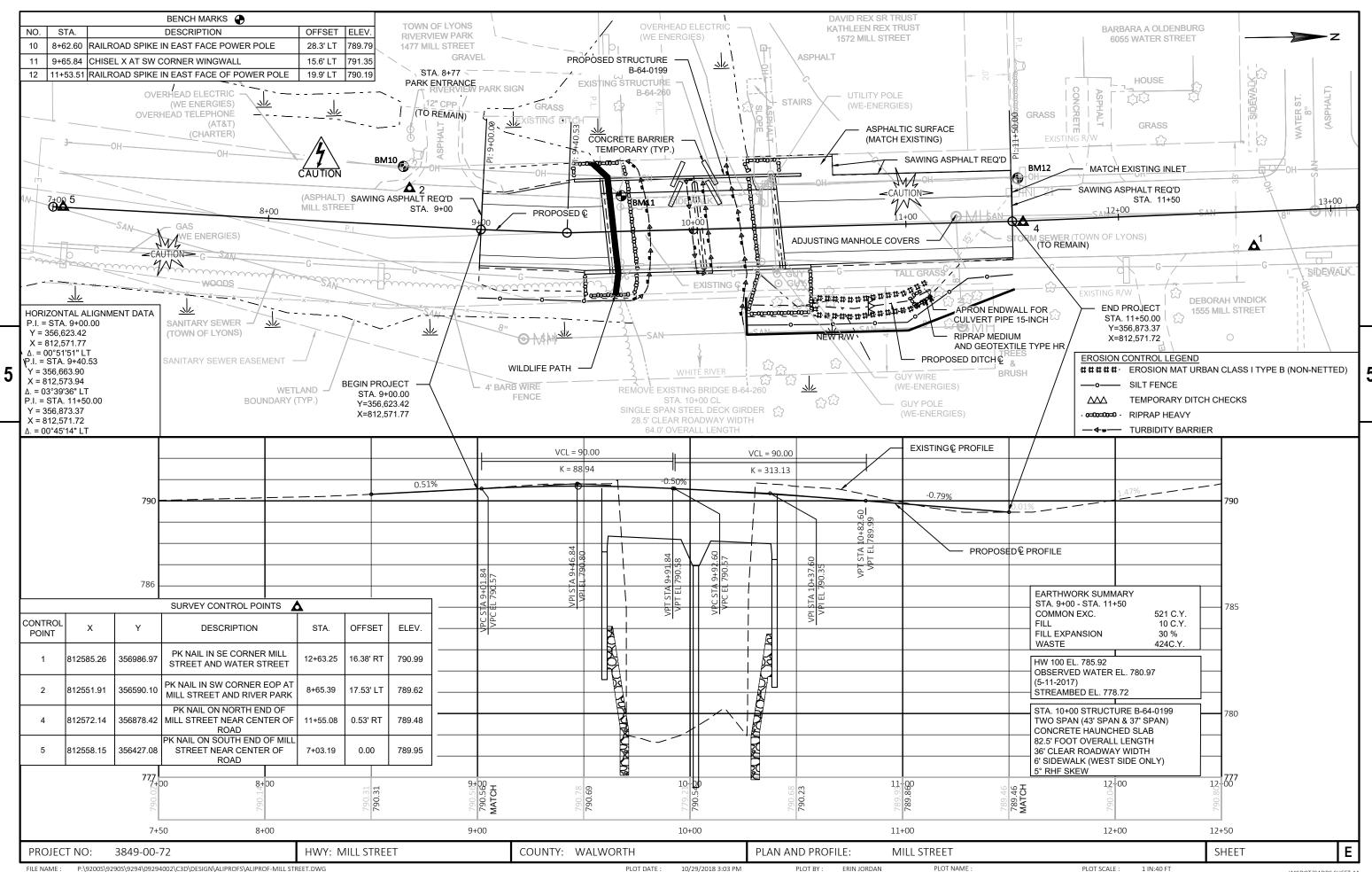
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.



| VISION DATE | TOWN OF LYONS |
|-------------|-----------------------|
| | APPROVED FOR THE TOWN |
| | DATE: (Signature) |

FILE NAME : P:\9200S\92994\09294002\C3D\RW\MILL STREET_PLAT.DWG PLOT BY: BRAD TISDALE





Standard Detail Drawing List

| 08E08-03 | TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS |
|-----------|---|
| 08E09-06 | SILT FENCE |
| 08E11-02 | TURBIDITY BARRIER |
| 08F01-11 | APRON ENDWALLS FOR CULVERT PIPE |
| 12A03-10 | NAME PLATE (STRUCTURES) |
| 14B07-15A | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-15B | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-15C | |
| 14B07-15D | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-15E | |
| 14B07-15F | |
| 14B07-15G | |
| 14B07-15H | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-15I | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 15A01-13A | MARKER POST FOR RIGHT-OF-WAY |
| 15C02-06A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C02-06B | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C06-09 | SIGNING & MARKING FOR TWO LANE BRIDGES |
| 15С11-07В | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SIGNS TO POSTS |

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GENERAL NOTES

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

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



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 11/8" X 11/8" 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.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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GENERAL NOTES

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

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- 4 IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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| | METAL APRON ENDWALLS | | | | | | | | | | |
|-------|----------------------|--------------|-------|--------|--------|----------|--------|----------------|-------|------------------------------------|-------|
| PIPE | MIN. 1 | THICK. | | | DIMEN: | SIONS (I | nches) | | | APPROX. | |
| DIA. | (Incl | | A | В | Н | L | Γį | L ₂ | W | SLOPE | BODY |
| (IN.) | STEEL | ALUM. | (±1") | (MAX.) | (±1") | (±1 ½") | ① | 0 | (±2") | 320.2 | |
| 12 | .064 | .060 | 6 | 6 | 6 | 21 | 12 | 171/2 | 24 | 2½+o 1 | 1Pc. |
| 15 | .064 | .060 | 7 | 8 | 6 | 26 | 14 | 213/4 | 30 | 21/2+o 1 | 1Pc. |
| 18 | .064 | .060 | 8 | 10 | 6 | 31 | 15 | 281/4 | 36 | 21/2+o 1 | 1Pc. |
| 21 | .064 | .060 | 9 | 12 | 6 | 36 | 18 | 295/8 | 42 | 21/2+o 1 | 1Pc. |
| 24 | .064 | .075 | 10 | 13 | 6 | 41 | 18 | 371/4 | 48 | 21/2+o 1 | 1Pc. |
| 30 | .079 | .075 | 12 | 16 | 8 | 51 | 18 | 521/4 | 60 | 21/2+0 1 | 1Pc. |
| 36 | .079 | . 105 | 14 | 19 | 9 | 60 | 24 | 59¾ | 72 | 21/2+o 1 | 2 Pc. |
| 42 | .109 | .105 | 16 | 22 | 11 | 69 | 24 | 75% | 84 | 21/2 to 1 | 2 Pc. |
| 48 | .109 | .105 | 18 | 27 | 12 | 78 | 24 | 81 | 90 | 2 ¹ / ₄ +o 1 | 3 Pc. |
| 54 | .109 | .105 | 18 | 30 | 12 | 84 | 30 | 851/2 | 102 | 2 ¹ / ₄ †o 1 | 3 Pc. |
| 60 | .109× | .105× | 18 | 33 | 12 | 87 | _ | _ | 114 | 2 to 1 | 3 Pc. |
| 66 | .109× | .105× | 18 | 36 | 12 | 87 | _ | _ | 120 | 2 to 1 | 3 Pc. |
| 72 | .109× | .105× | 18 | 39 | 12 | 87 | _ | _ | 126 | 2 to 1 | 3 Pc. |
| 78 | .109× | .105× | 18 | 42 | 12 | 87 | _ | _ | 132 | 11/2+0 1 | 3 Pc. |
| 84 | .109× | .105× | 18 | 45 | 12 | 87 | _ | _ | 138 | 11/2 to 1 | 3 Pc. |
| 90 | .109× | .105× | 18 | 37 | 12 | 87 | _ | _ | 144 | 11/2+0 1 | 3 Pc. |
| 96 | .109× | .105× | 18 | 35 | 12 | 87 | _ | _ | 150 | 1/2+0 1 | 3 Pc. |

| | REINFORCED CONCRETE APRON ENDWALLS | | | | | | | |
|------|------------------------------------|---------------------------|--|--|-------------------------------------|-----|------|----------|
| PIPE | | | DIM | ENSIONS | (Inches) | | | APPROX. |
| DIA. | T | A | В | С | D | Ε | G | SLOPE |
| 12 | 2 | 4 | 24 | 48 1/8 | 721/8 | 24 | 2 | 3 to 1 |
| 15 | 21/4 | 6 | 27 | 46 | 73 | 30 | 21/4 | 3 to 1 |
| 18 | 21/2 | 9 | 27 | 46 | 73 | 36 | 21/2 | 3 to 1 |
| 21 | 23/4 | 9 | 36 | 371/2 | 731/2 | 42 | 23/4 | 3 to 1 |
| 24 | 3 | 91/2 | 431/2 | 30 | 731/2 | 48 | 3 | 3 to 1 |
| 27 | 31/4 | 101/2 | 491/2 | 24 | 731/2 | 54 | 31/4 | 3 to 1 |
| 30 | $3\frac{1}{2}$ | 12 | 54 | 193/4 | 731/2 | 60 | 31/2 | 3 to 1 |
| 36 | 4 | 15 | 63 | 34¾ | 97¾ | 72 | 4 | 3 to 1 |
| 42 | $4\frac{1}{2}$ | 21 | 63 | 35 | 98 | 78 | 41/2 | 3 to 1 |
| 48 | 5 | 24 | 72 | 26 | 98 | 84 | 5 | 3 to 1 |
| 54 | 51/2 | | 65 | ************************************** | 8 ¹ / ₄ - 100 | 90 | 51/2 | 2% to 1 |
| 60 | 6 | * ** 30-35 | 60 | 39 | 99 | 96 | 5 | 2 to 1 |
| 66 | 61/2 | * ** 24-30 | * * * 72-78 | * * * 21-27 | 99 | 102 | 51/2 | 2 to 1 |
| 72 | 7 | * ** 24-36 | 78 | 21 | 99 | 108 | 6 | 2 to 1 |
| 78 | 71/2 | * ** 24-36 | 78 | 21 | 99 | 114 | 61/2 | 2 to 1 |
| 84 | 8 | 36 | 901/2 | 21 | 1111/2 | 120 | 61/2 | 1½+o 1 |
| 90 | 81/2 | 41 | 871/2 | 24 | 1111/2 | 132 | 61/2 | 11/2+0 1 |

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

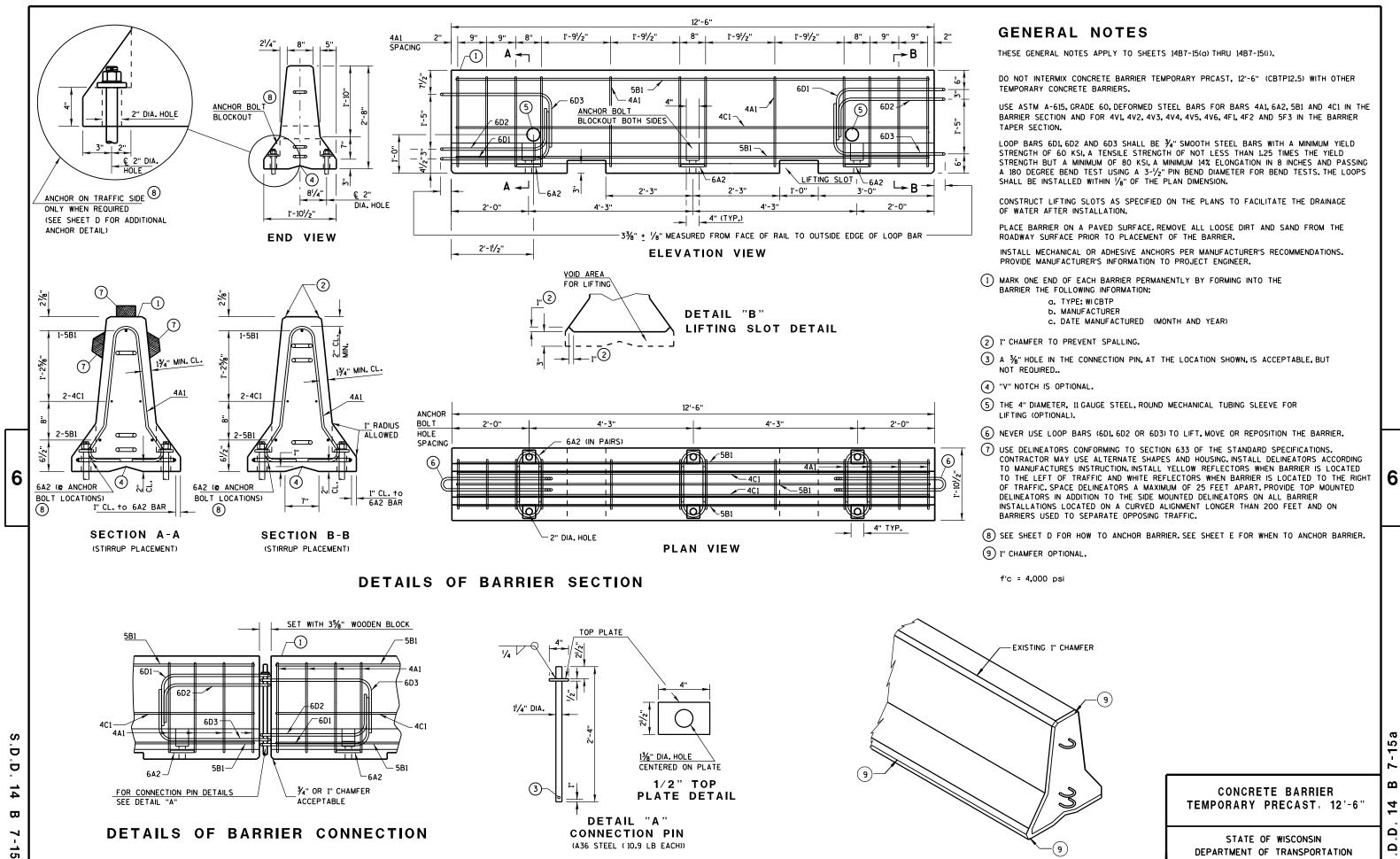
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

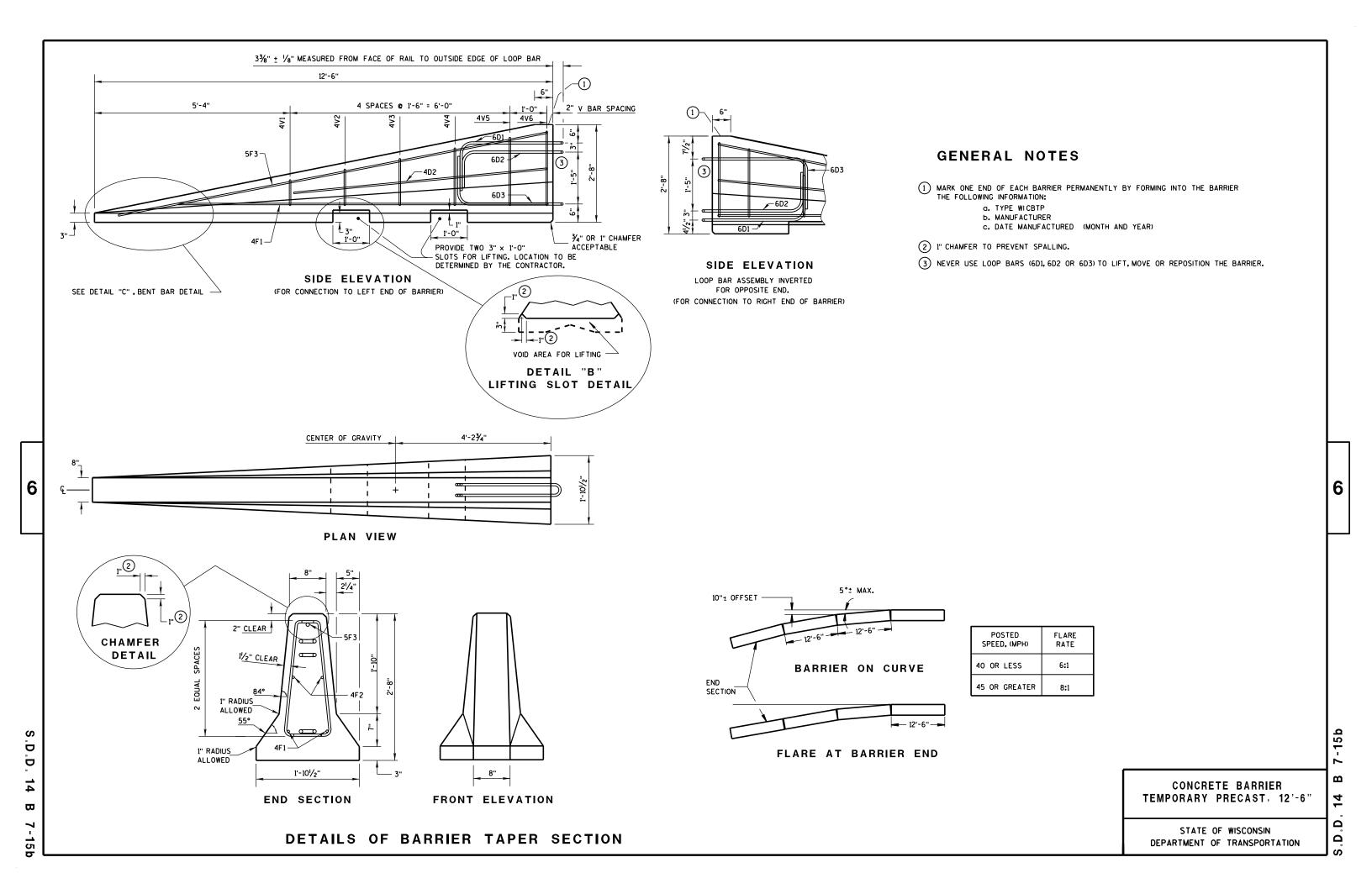
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DEPARTMENT OF TRANSPORTATION

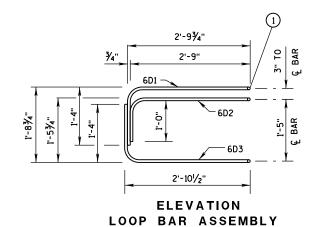


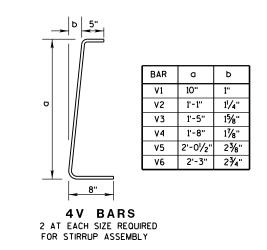
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

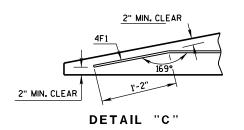
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

| WEN IE O BANNEN TALEN SECTION | | | | | |
|-------------------------------|-------------|-------------------|---------------|--|--|
| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. | | |
| 4V1 | 4 | 2 | 1'-11" | | |
| 4V2 | 4 | 2 | 2'-2" | | |
| 4٧3 | 4 | 2 | 2'-6" | | |
| 4V4 | 4 | 2 | 2'-9" | | |
| 4V5 | 4 | 2 | 3'-2" | | |
| 4V6 | 4 | 2 | 3'-4" | | |
| 4F1 | 4 | 2 | 12'-0" | | |
| 4F2 | 4 | 2 | 7'-6" | | |
| 5F3 | 5 | 1 | 11'-9" | | |
| L | OOP AS | SSEMBL | Υ | | |
| 6D1 | 6 | 1 | 8'-5" | | |
| 6D2 | 6 | 1 | 7'-7" | | |
| 6D3 | 6 | 1 | 8'-6" | | |
| | | • | • | | |





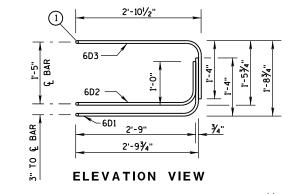


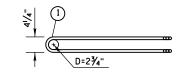
BENT BAR DETAIL

TAPER BARRIER SECTION



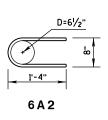
| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. |
|---------|-------------|-------------------|---------------|
| 4A1 | 4 | 12 | 6'-0" |
| 6A2 | 6 | 6 | 2'-11" |
| 5B1 | 5 | 3 | 12'-2" |
| 4C1 | 4 | 2 | 12'-2" |
| LOOP AS | | SSEMBL | Υ |
| 6D1 | 6 | 2 | 8'-5" |
| 6D2 | 6 | 2 | 7'-7" |
| 6D3 | 6 | 2 | 8'-6" |

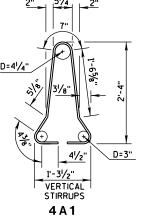




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





BARRIER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

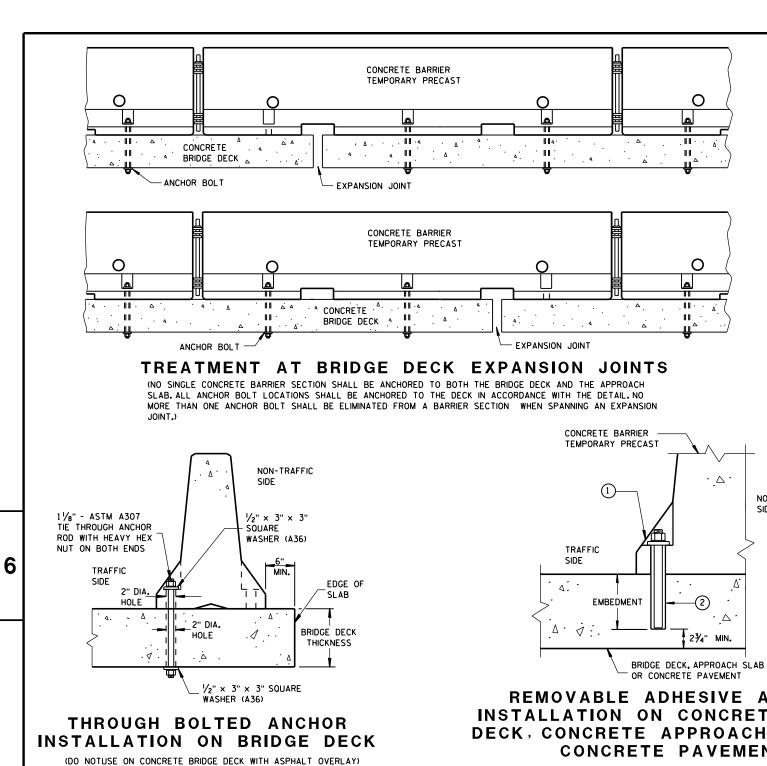
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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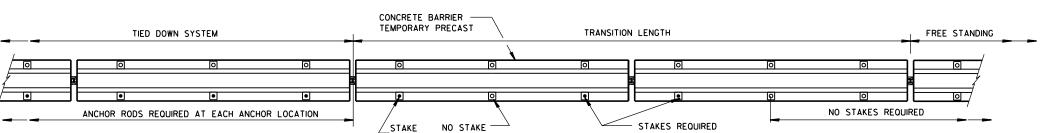
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



DIRECTION OF TRAFFIC

PLAN VIEW

REQUIRED

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

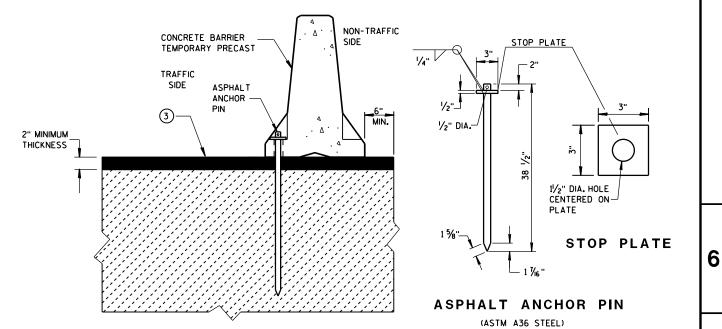
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

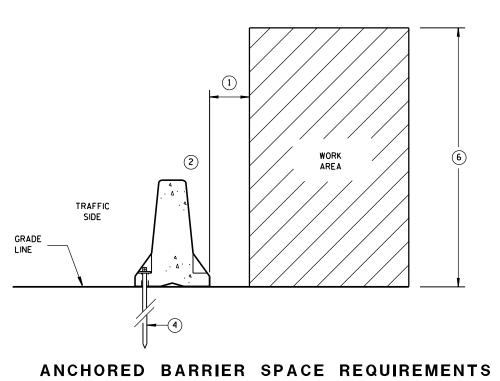
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d $\mathbf{\omega}$ Ω



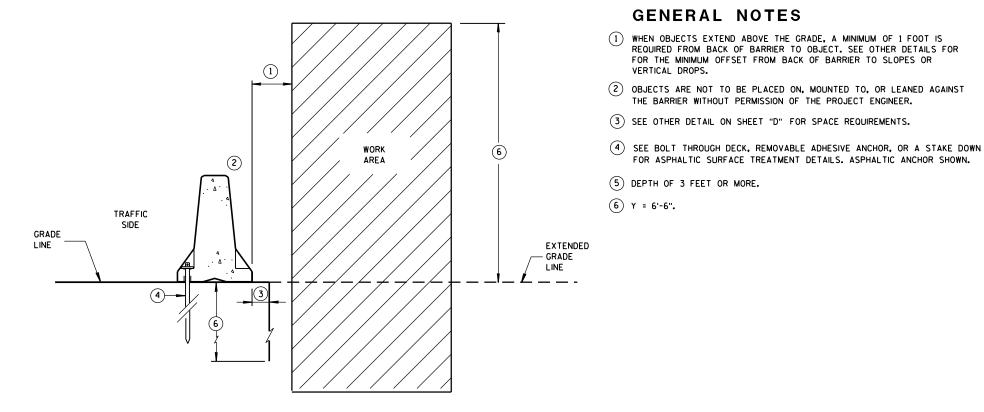
FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

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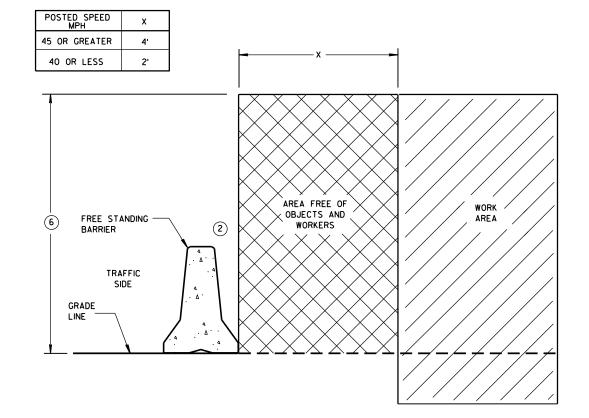
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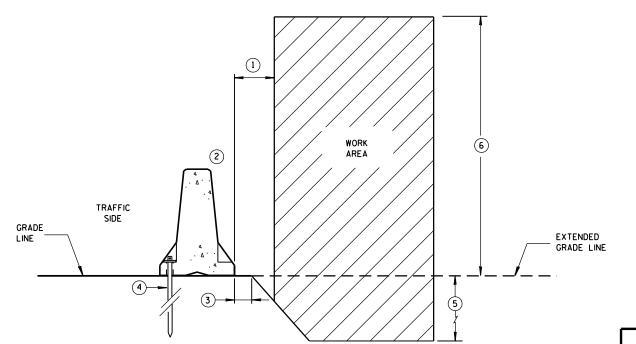
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ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

GENERAL NOTES

FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR

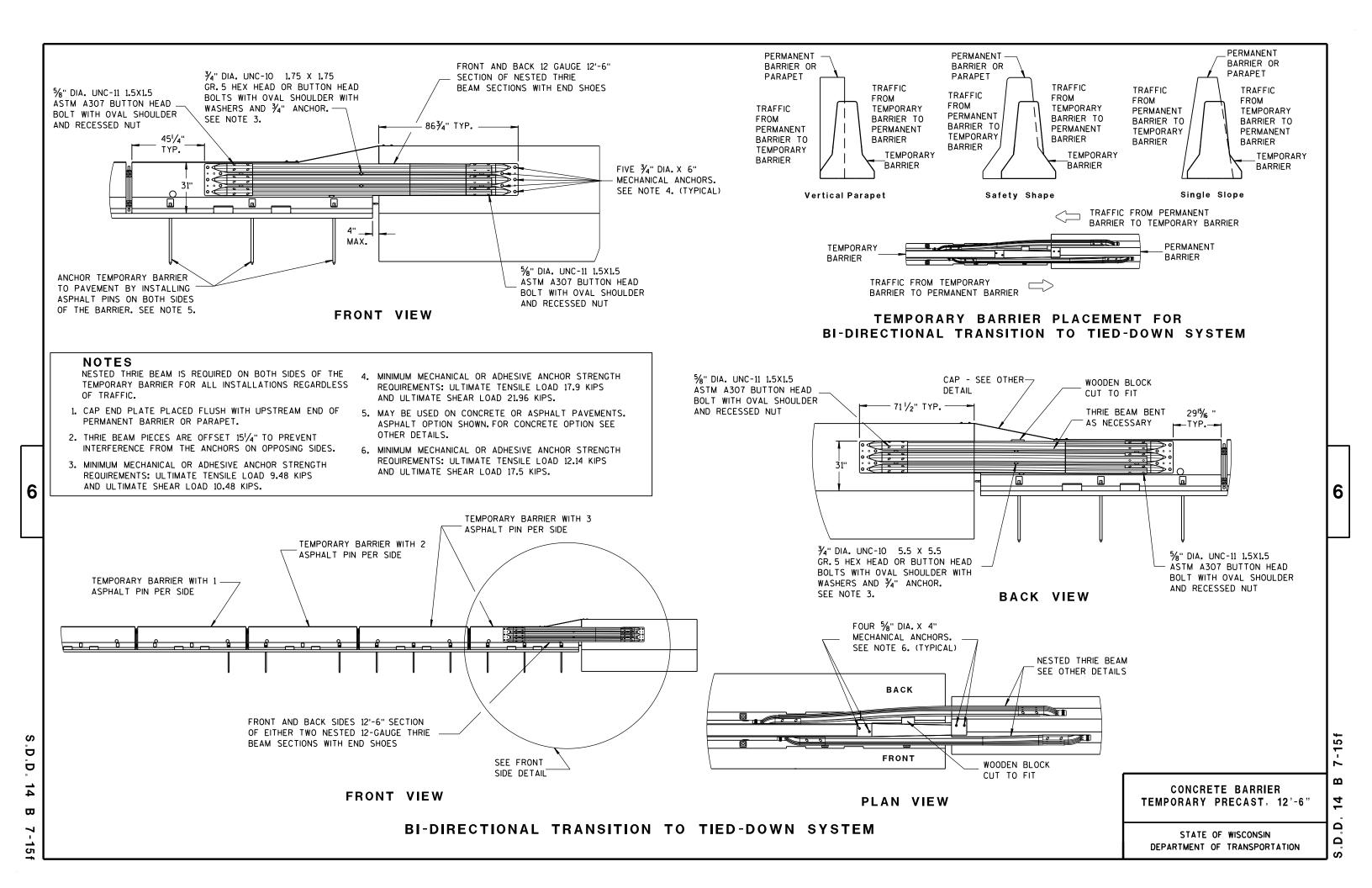
FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.

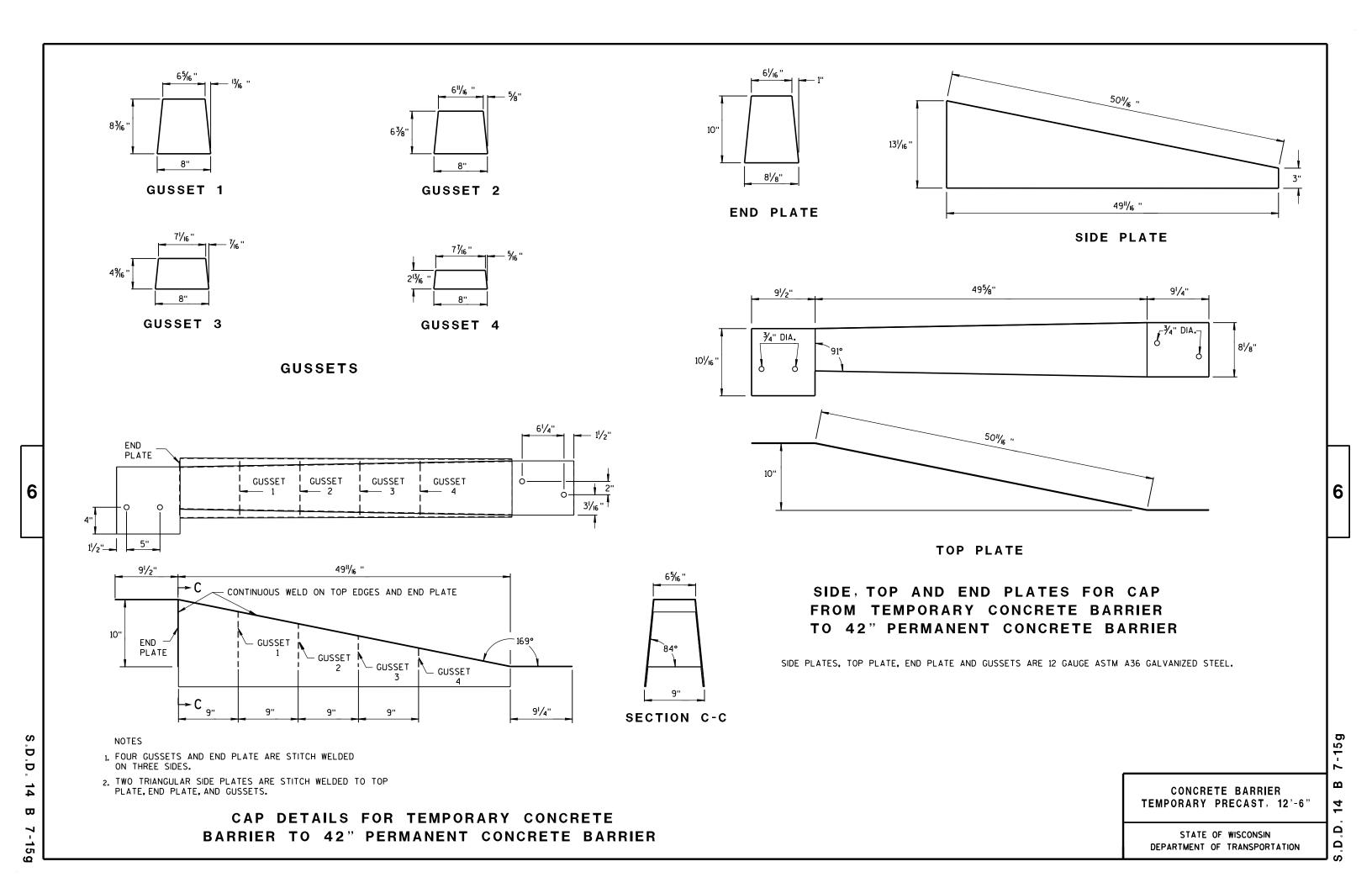
THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.

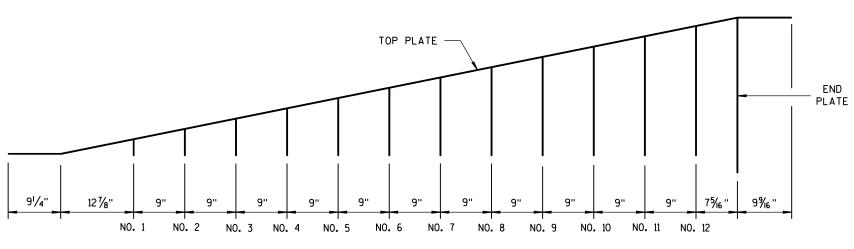
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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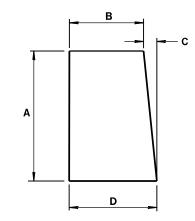




GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

| GUSSET DIMENSIONS | | | | | | | |
|-------------------|-------------------------------------|-----------------------------------|-----------------------------------|-------------------|--|--|--|
| GUSSET No. | A | В | С | D | | | |
| 1 | 21/8" | 73/4" | 1/4" | 8 | | | |
| 2 | 4"/16 " | 7% " | 1/2" | 8 | | | |
| 3 | 61/2" | 73/8" | 11/16 " | 81/16" | | | |
| 4 | 85/6" | 73//6" | 7∕8" | 81/16 " | | | |
| 5 | 101/8" | 7'' | 1 ½ ₆ " | 81/16" | | | |
| 6 | 11 ¹⁵ / ₁₆ '' | 6 ¹³ // ₆ " | 1 1/4" | 81/16" | | | |
| 7 | 13¾" | 65%" | 1 1/6" | 81/16" | | | |
| 8 | 15% " | 6¾6" | 1 % " | 81/16" | | | |
| 9 | 173/8" | 6 ¹ /4" | 1 ¹³ / ₁₆ " | 8½ ₆ " | | | |
| 10 | 193/6" | 6½ ₆ " | 1 15/16 " | 81/16 " | | | |
| 11 | 21" | 57/8" | 23/6" | 81/16" | | | |
| 12 | 22 ¹³ / ₁₆ " | 5 ¹¹ / ₁₆ " | 2% " | 8½ ₆ " | | | |

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

DEPARTMENT OF TRANSPORTATION

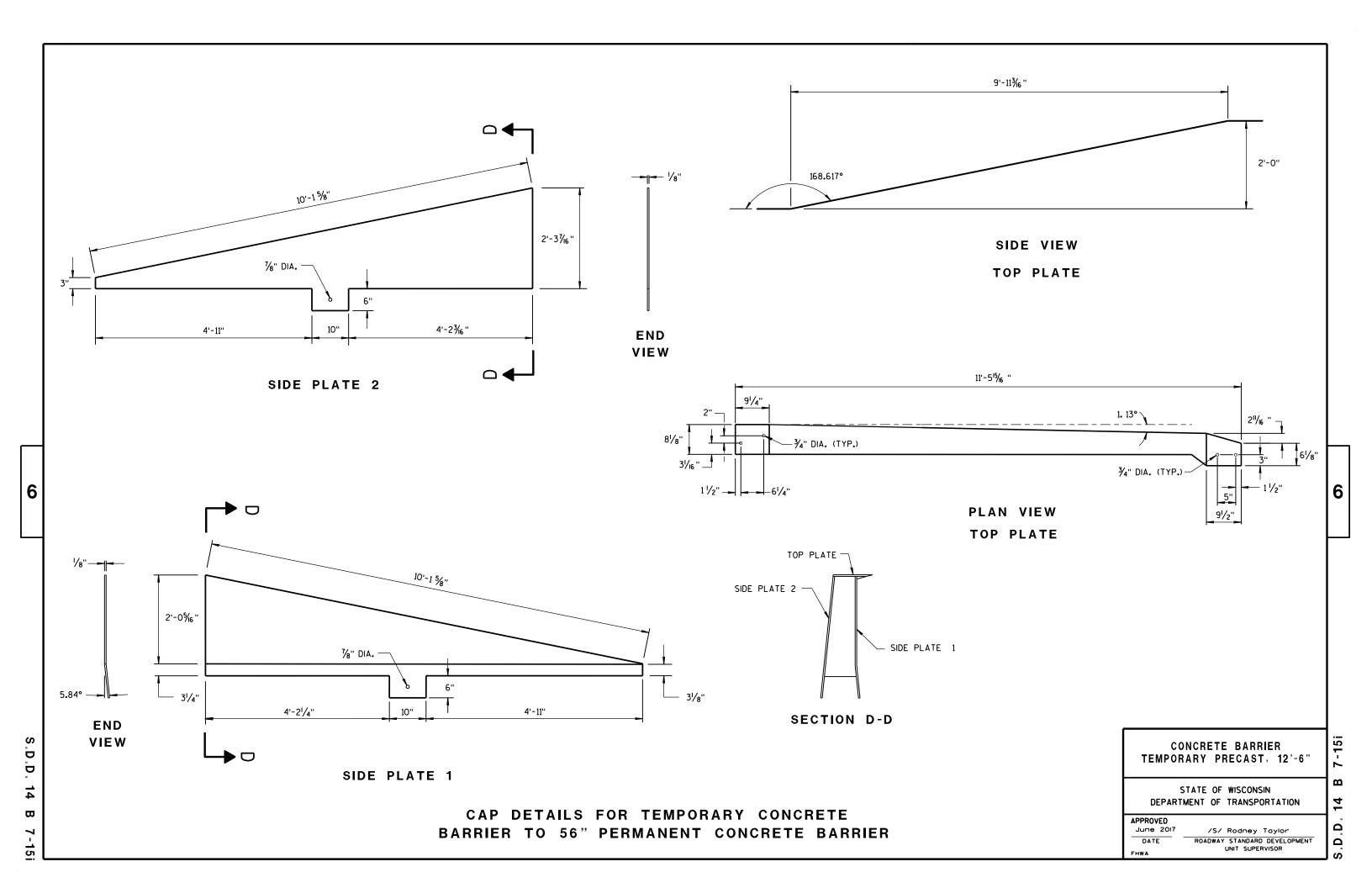
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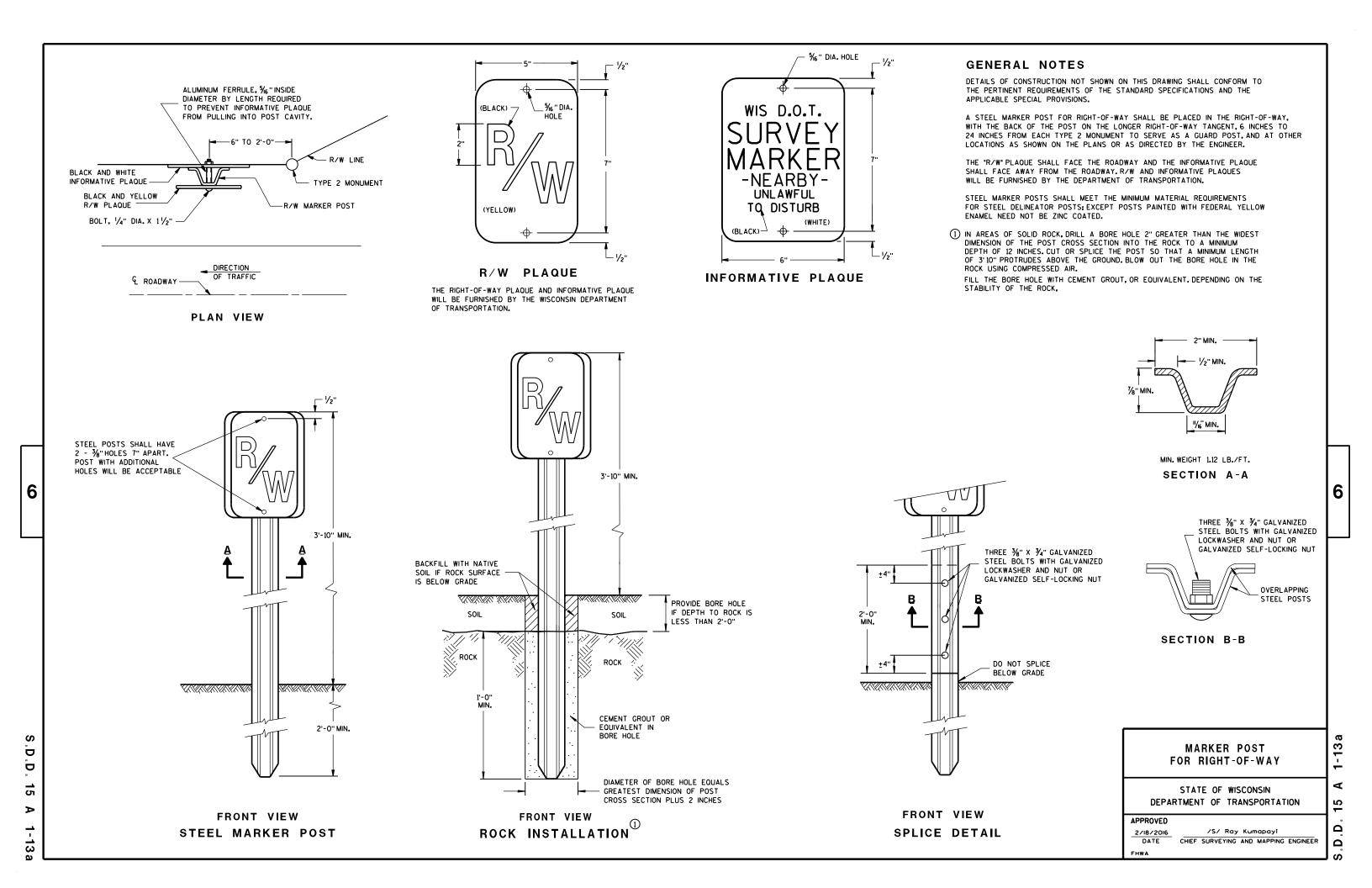
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STATE OF WISCONSIN

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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

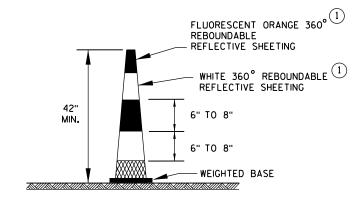
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



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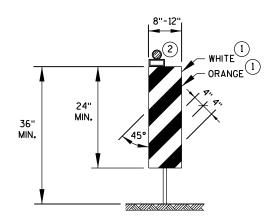
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

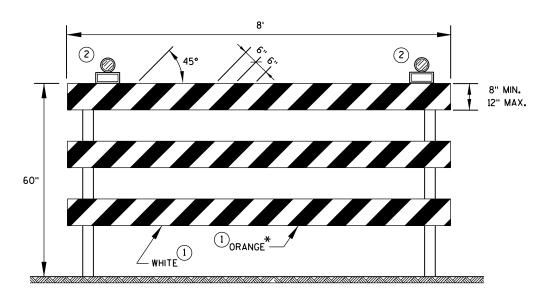


VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

GENERAL NOTES

- REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

June 2017
DATE

WORK ZONE ENGINEER
FHWA

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TUBULAR STEEL POSTS

| AREA OF SIGN INSTALLATION (SO. FT.) | NUMBER OF REQUIRED TUBULAR STEEL POSTS |
|--|--|
| 9 OR LESS | 1 |
| GREATER THAN 9 LESS THAN OR EQUAL TO 18 | 2 |
| GREATER THAN 18 LESS THAN OR EQUAL TO 27 | 3 |

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

| AREA OF SIGN INSTALLATION (SQ. FT.) | D (MIN) |
|---|------------|
| 20 OR LESS | 4' |
| GREATER THAN 20 | 5' |

4" X 6" WOOD POST

| POST SPACING REQUIREM | NUMBER OF | | |
|--|-----------|------------------------|---|
| L | E | WOOD POSTS REQUIRED | |
| 48" OR LESS AND LESS THAN 20 SO.FT. | - | 1 | |
| LESS THAN 60" | 12" | 2 | ٤ |
| 60" TO 120" | L/5 | 2 | |
| GREATER THAN 120" LESS THAN 168" | 12" | 3 | |
| 168" AND GREATER | 12" | 4 | |

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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 - 1/6" 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 - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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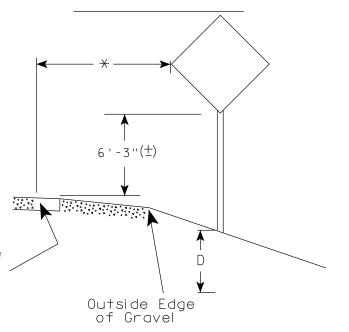
2' Min - 4' Max (See Note 6)

7'-3"(±)

** Curb Flowline

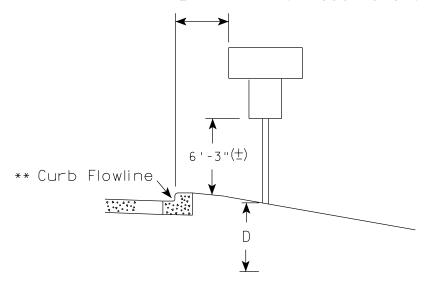
D White Edgeline

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)

Location



White Edgeline
Location

Outside Edge
of Gravel

** 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.

Greater than 20

* 6 feet from edge of a paved shoulder or 12

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

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (\pm) or 6'-3'' (\pm) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' 3" (\pm) .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rauch

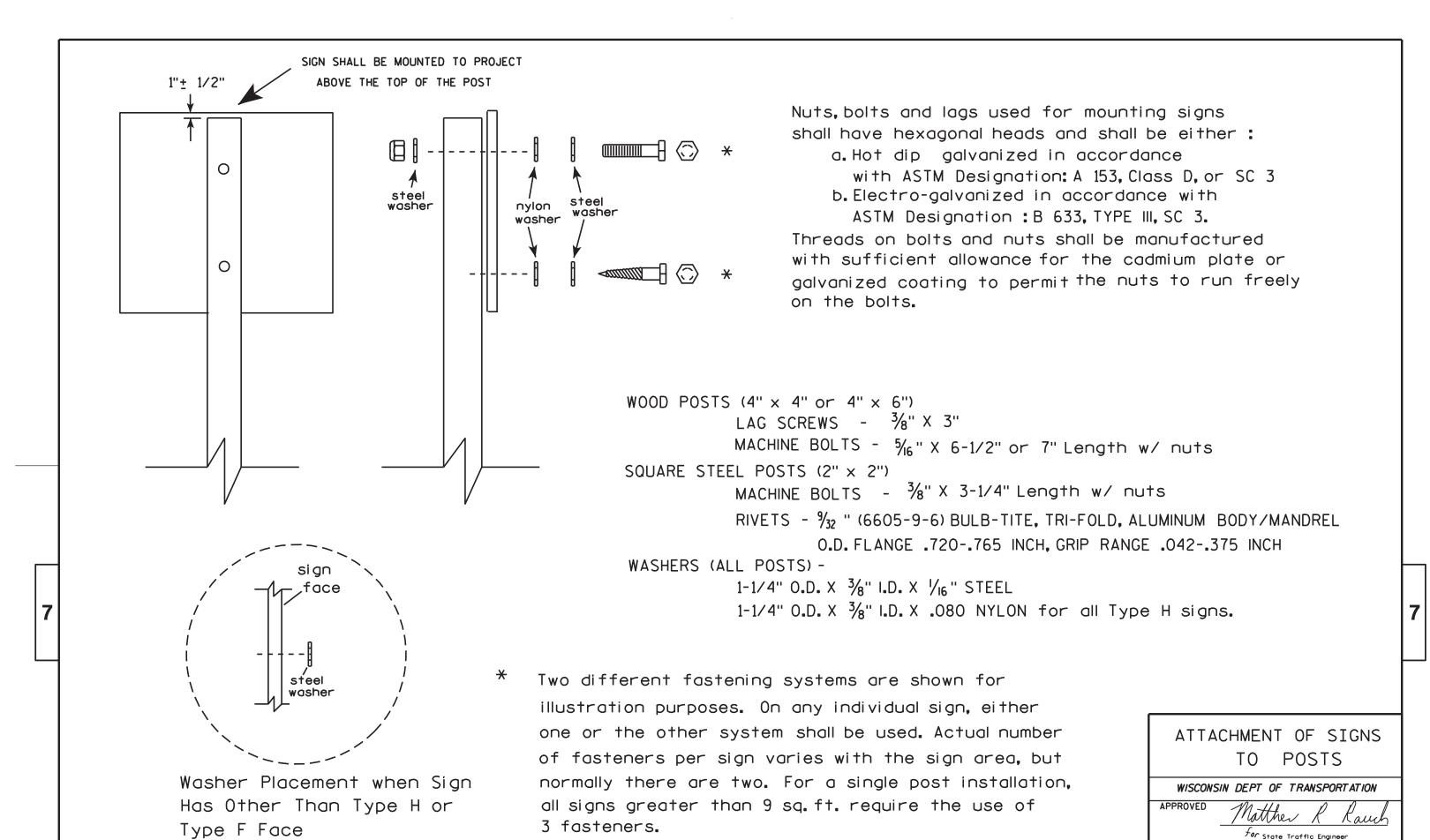
For State Traffic Engineer

APPROVED

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO: 3849-00-72 HWY: MILL STREET COUNTY: WALWORTH SIGN PLATE DETAILS SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 23-JUL-2015 15:21 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 99.237937:1.000000 WISDOT/CADDS SHEET 42



PROJECT NO: 3849-00-72 MILL STREET WALWORTH SIGN PLATE DETAILS

PLOT DATE: 23-MAR-2010 10:15 PLOT BY: ditjph

WISDOT/CADDS SHEET 42

DATE 3/23/10

PLATE NO. <u>A4-8.7</u>

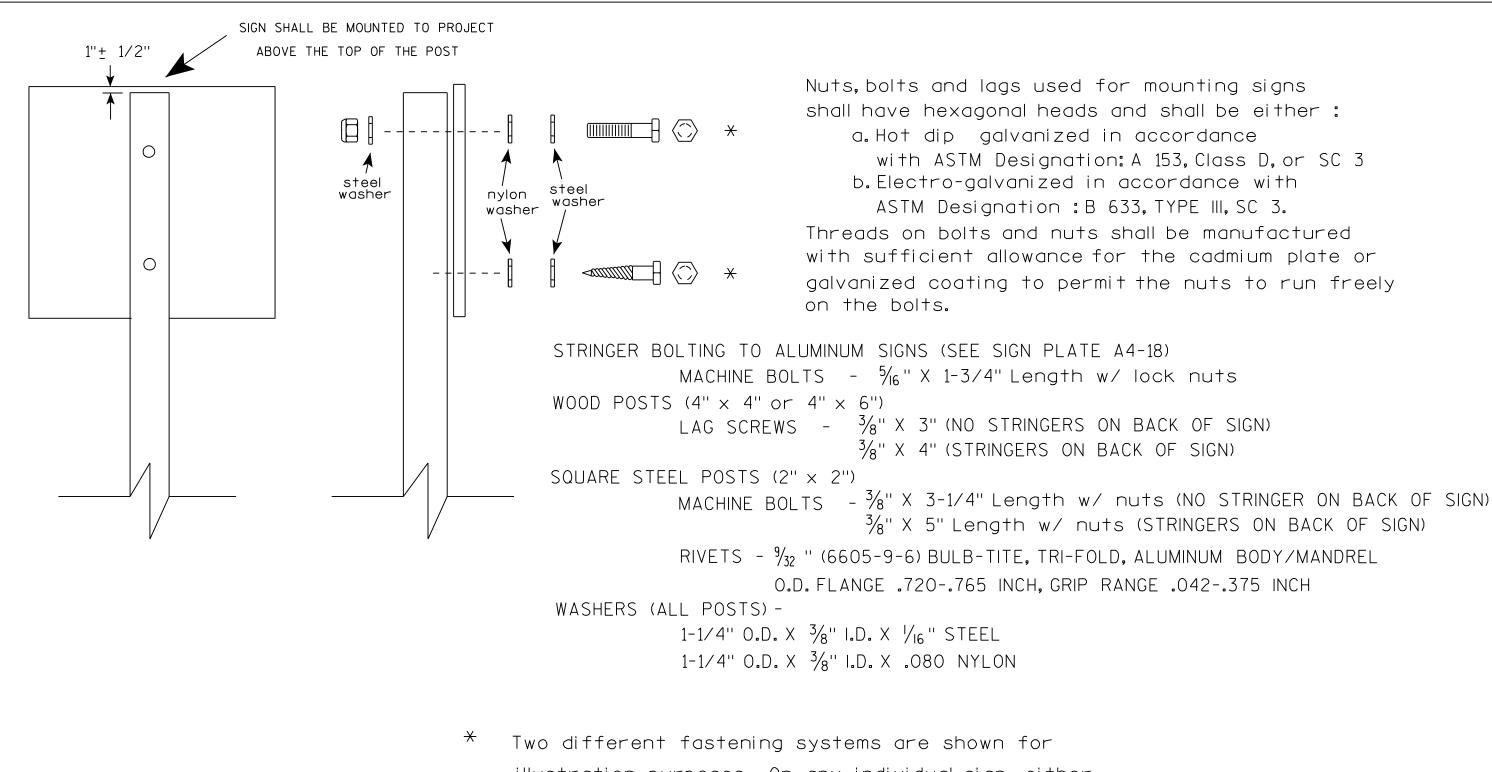


illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

APPROVED

For State Traffic Engineer

DATE 8/11/16

PROJECT NO: 3849-00-72

FILE NAME . C.\CAFfiles\Projects\tr stdolote\A48 DCN

MILL STREET

WALWORTH

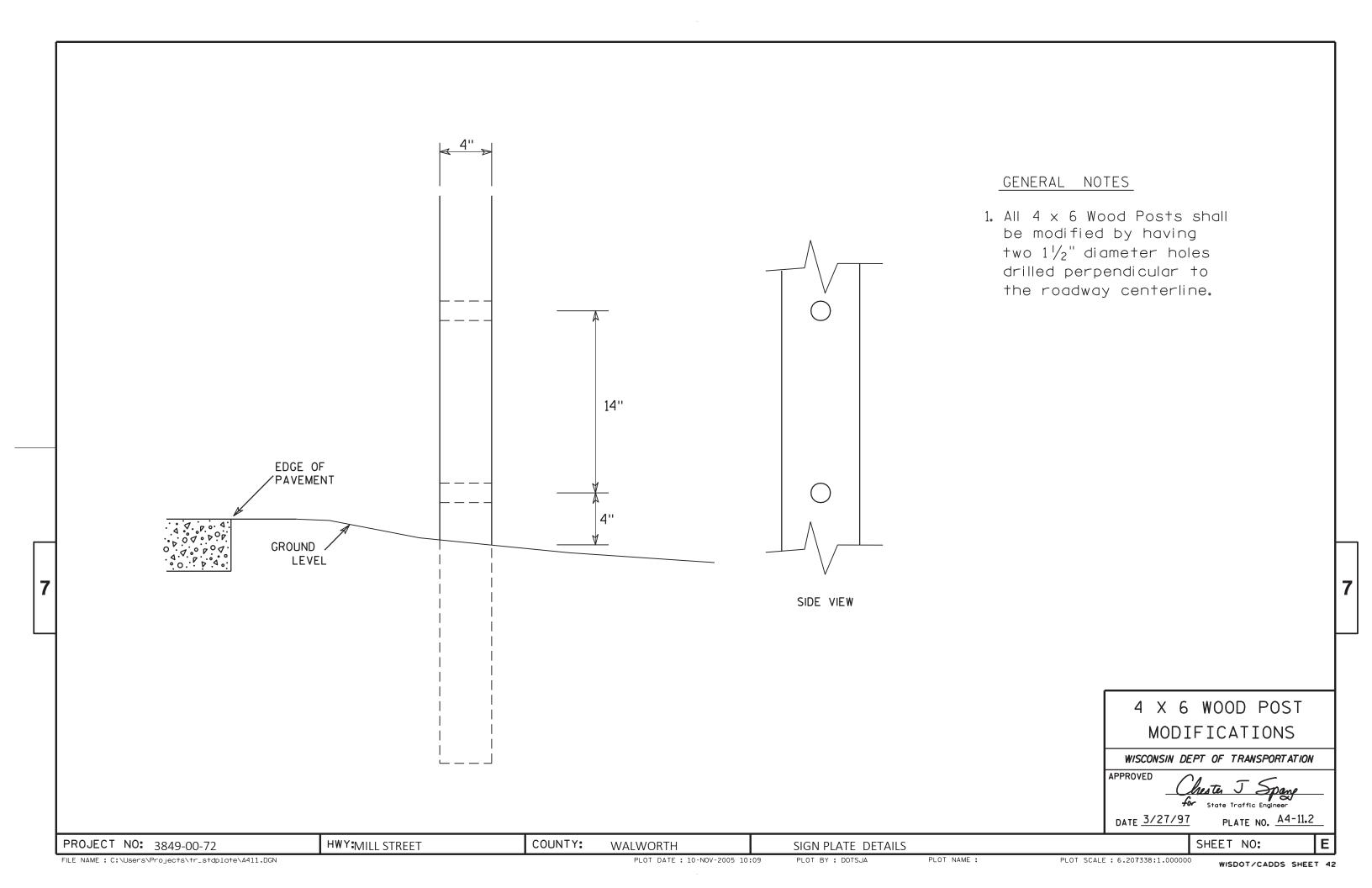
SIGN PLATE DETAILS

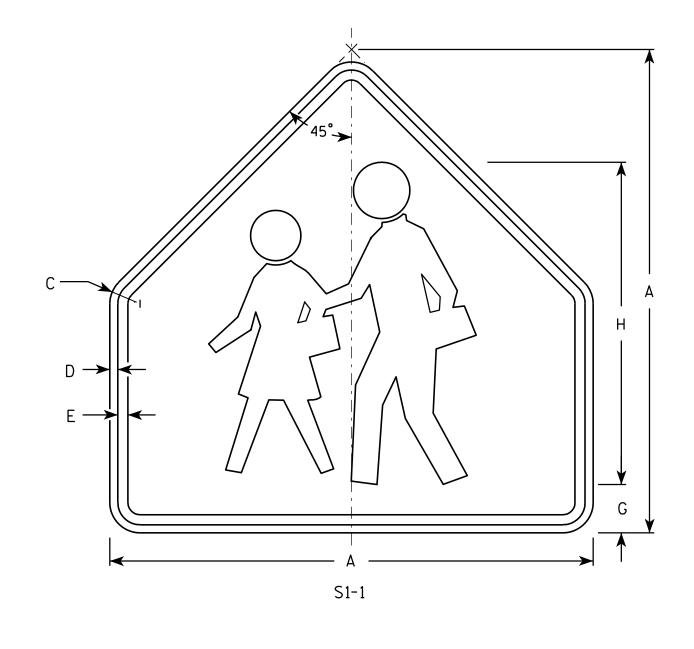
PLOT DATE . 11-410-2016 11:35

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

PINT BY . \$\$ plotuser \$\$





HWY: MILL STREET

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-Green 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 | Α | В | С | D | Ε | F | G | Н | I | J | К | L | М | N | 0 | Р | 0 | R | S | T | U | ٧ | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 30 | | 1 3/8 | 1/2 | 5/8 | | 3 | 20 | | | | | | | | | | | | | | | | | | | 4.69 |
| 2 | 36 | | 1 % | 5/8 | 3/4 | | 3 1/2 | 24 | | | | | | | | | | | | | | | | | | | 6.75 |
| 3 | 36 | | 1 5/8 | 5/8 | 3/4 | | 3 1/2 | 24 | | | | | | | | | | | | | | | | | | | 6.75 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | | 4 3/4 | 32 | | | | | | | | | | | | | | | | | | | 12 |
| 5 | | | | | | | | | | | | | | | | | | | | · | | | | | | | |

COUNTY:

WALWORTH

STANDARD SIGN S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer
D5 PLATE NO. S1-1.8 DATE 6/30/05

SHEET NO:

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

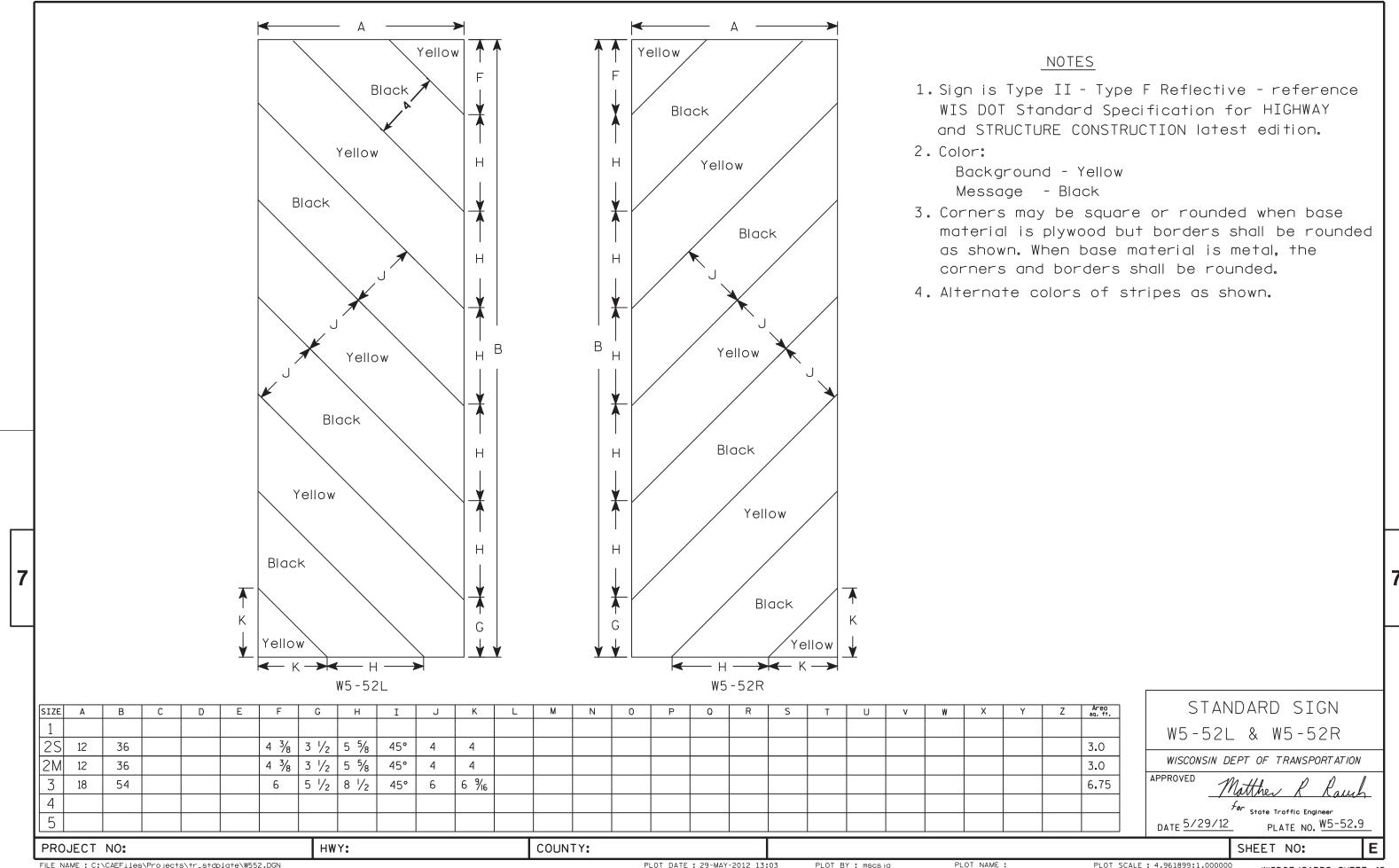
WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S11.DGN

PROJECT NO: 3849-00-72

PLOT DATE: 26-MAY-2010 16:12 PLOT BY : ditjph

SIGN PLATE DETAILS

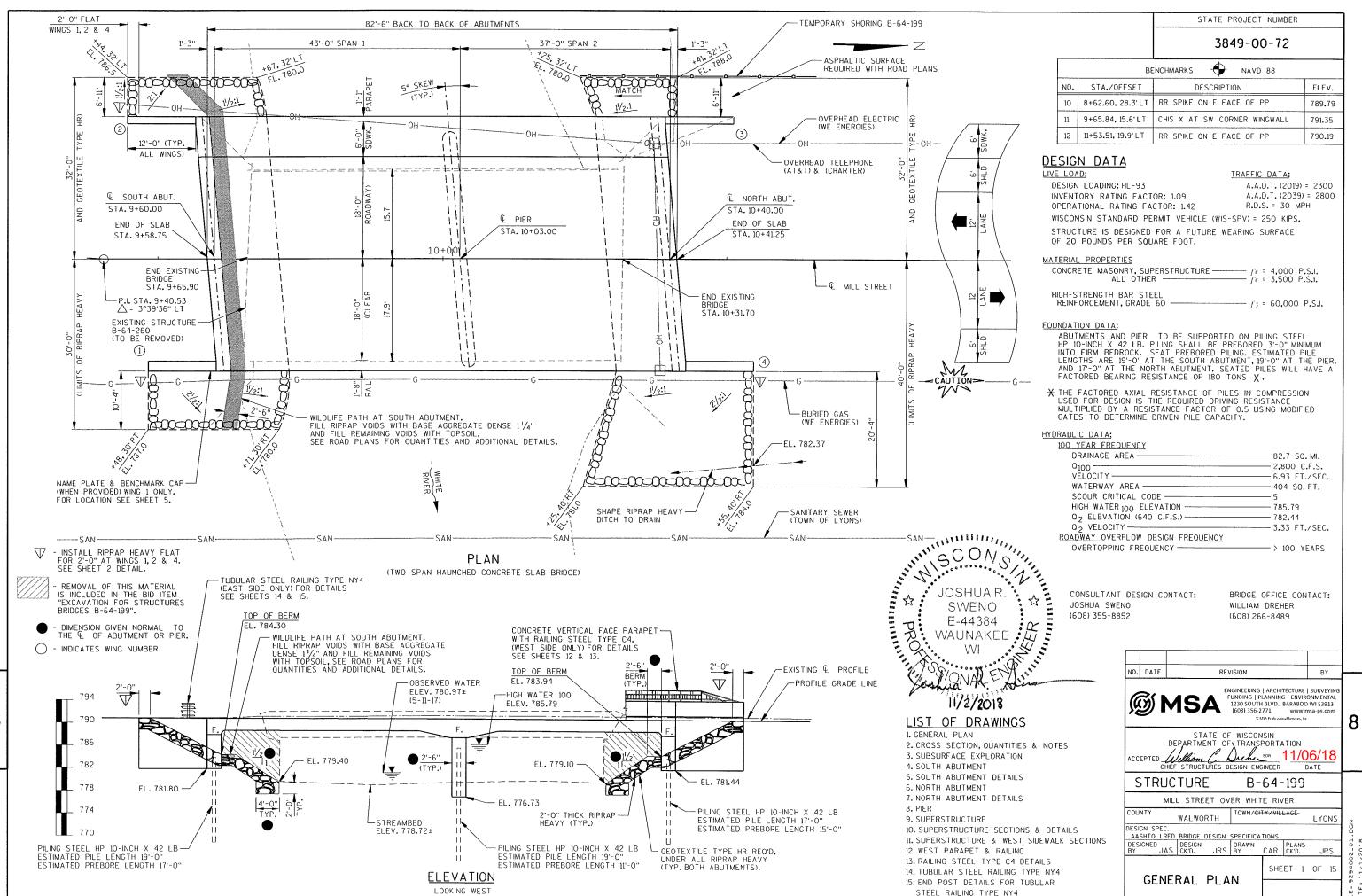


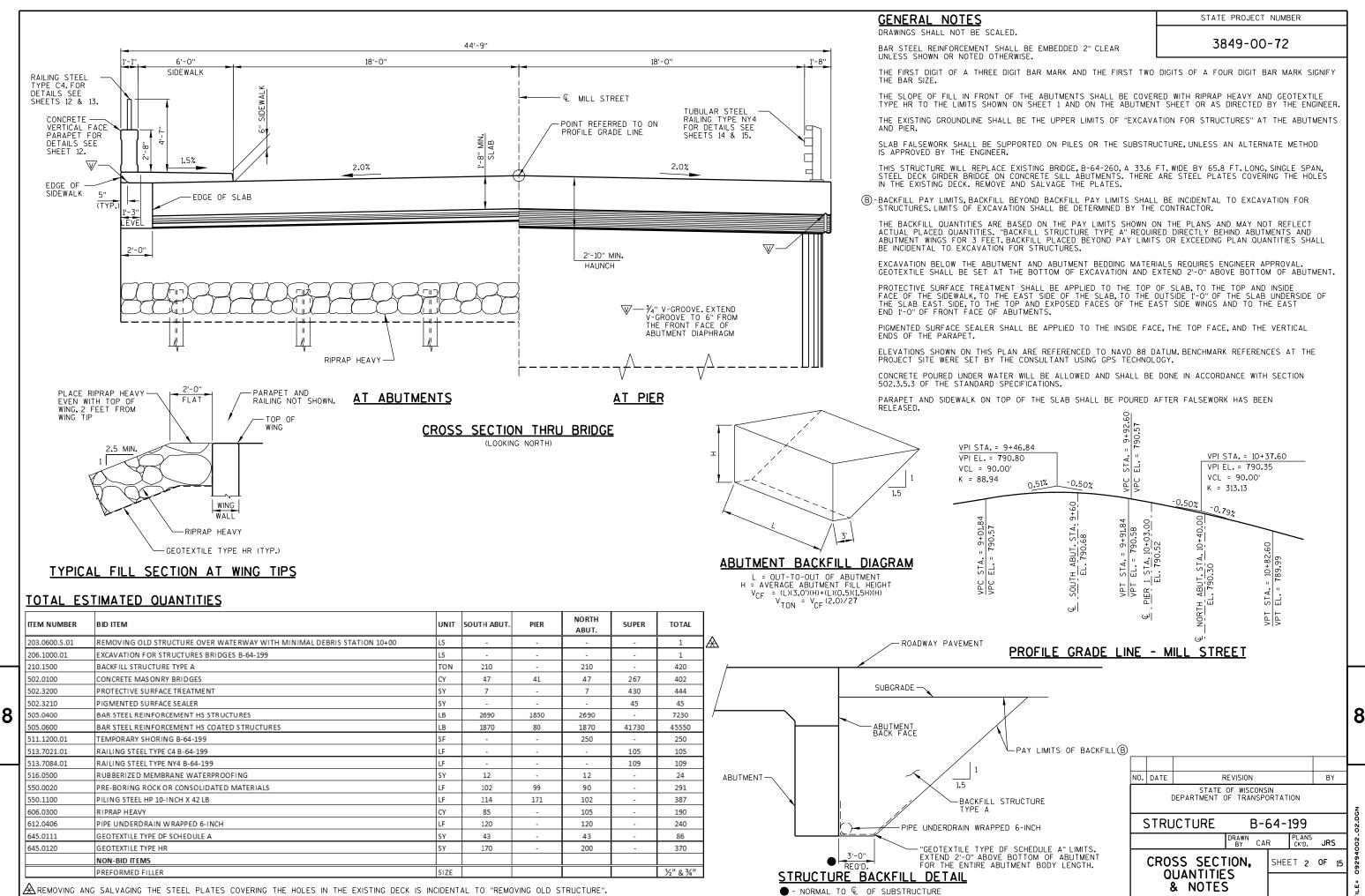
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PLOT DATE: 29-MAY-2012 13:03

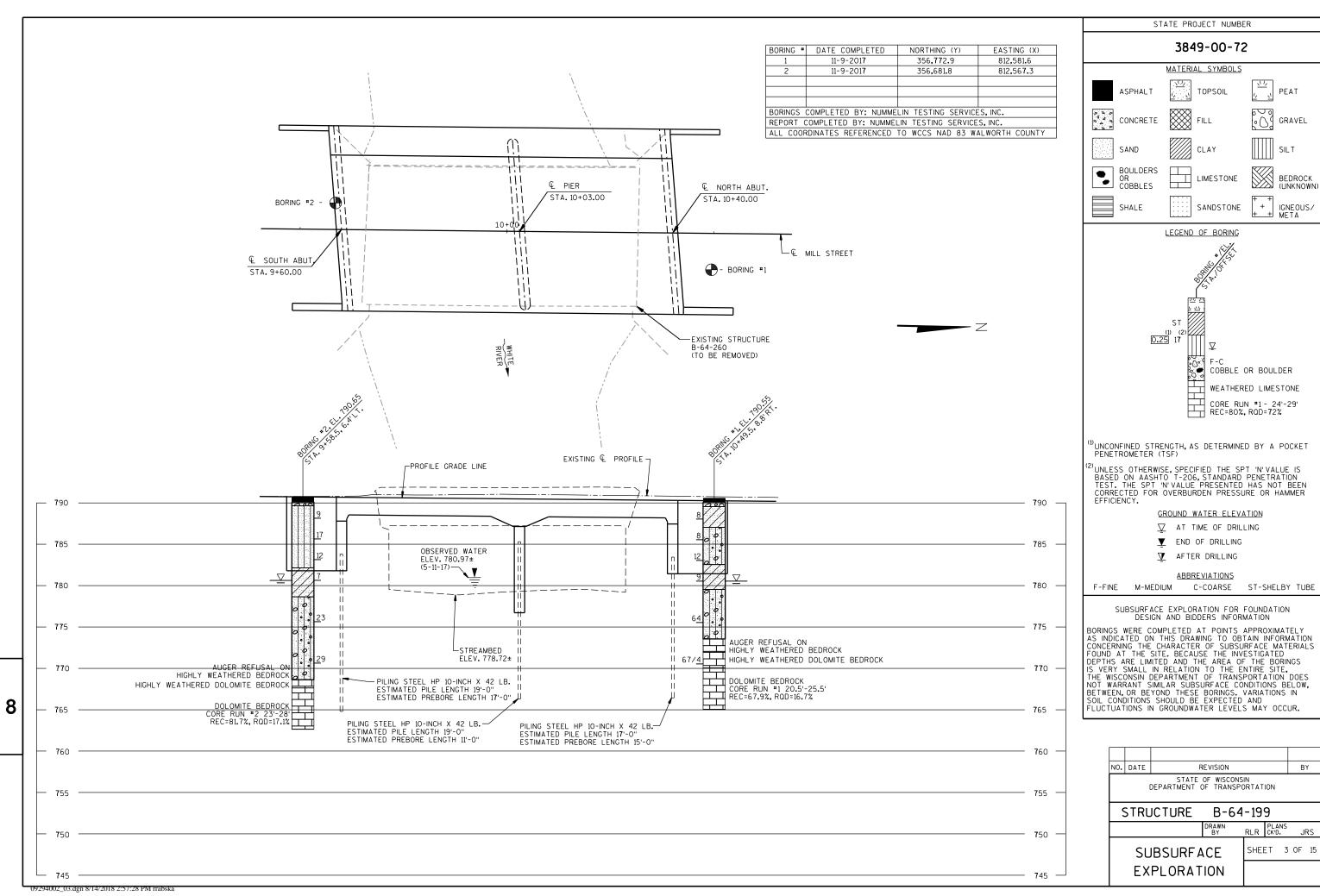
PLOT BY: mscsja

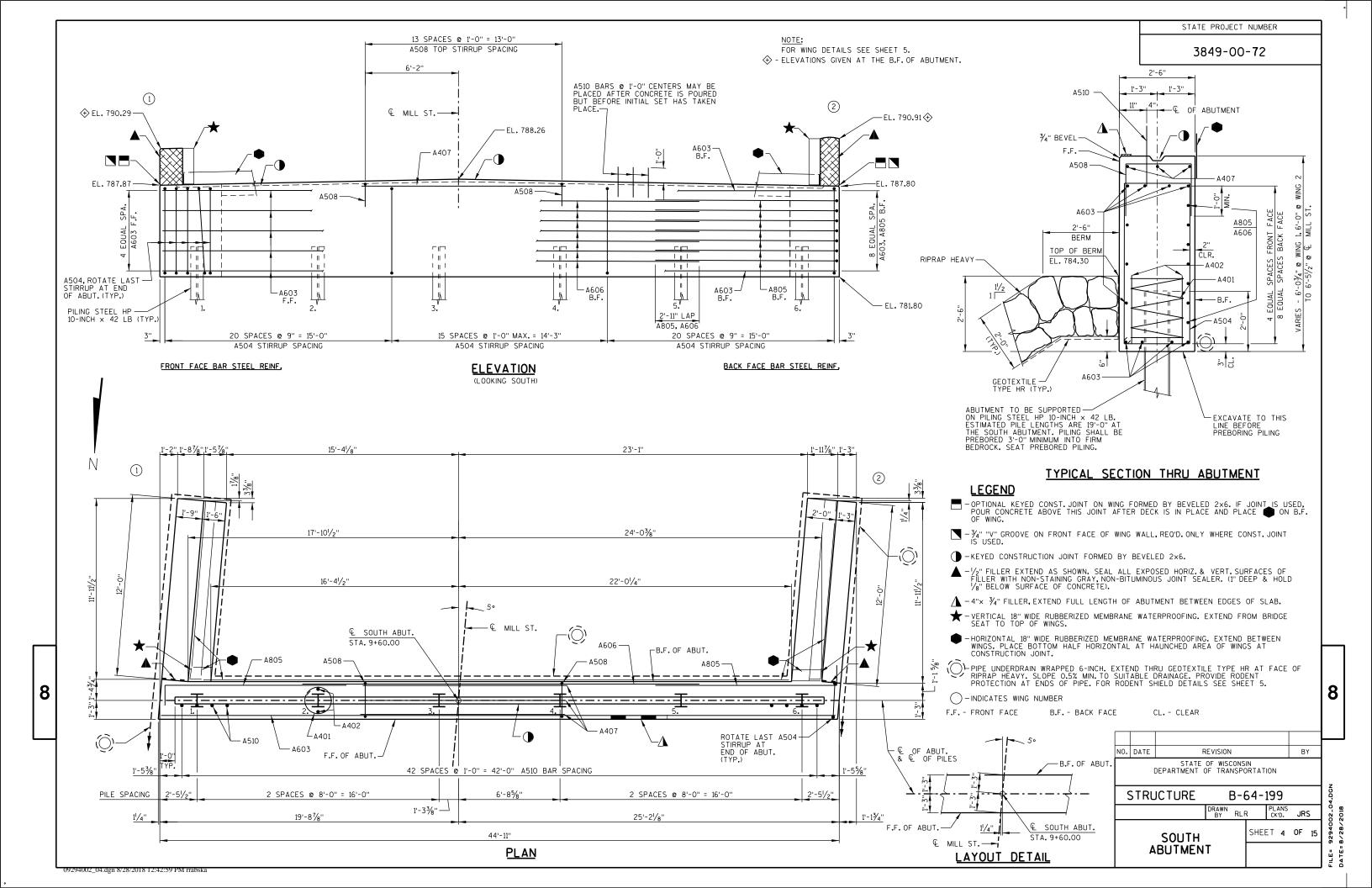
PLOT SCALE: 4.961899:1.000000

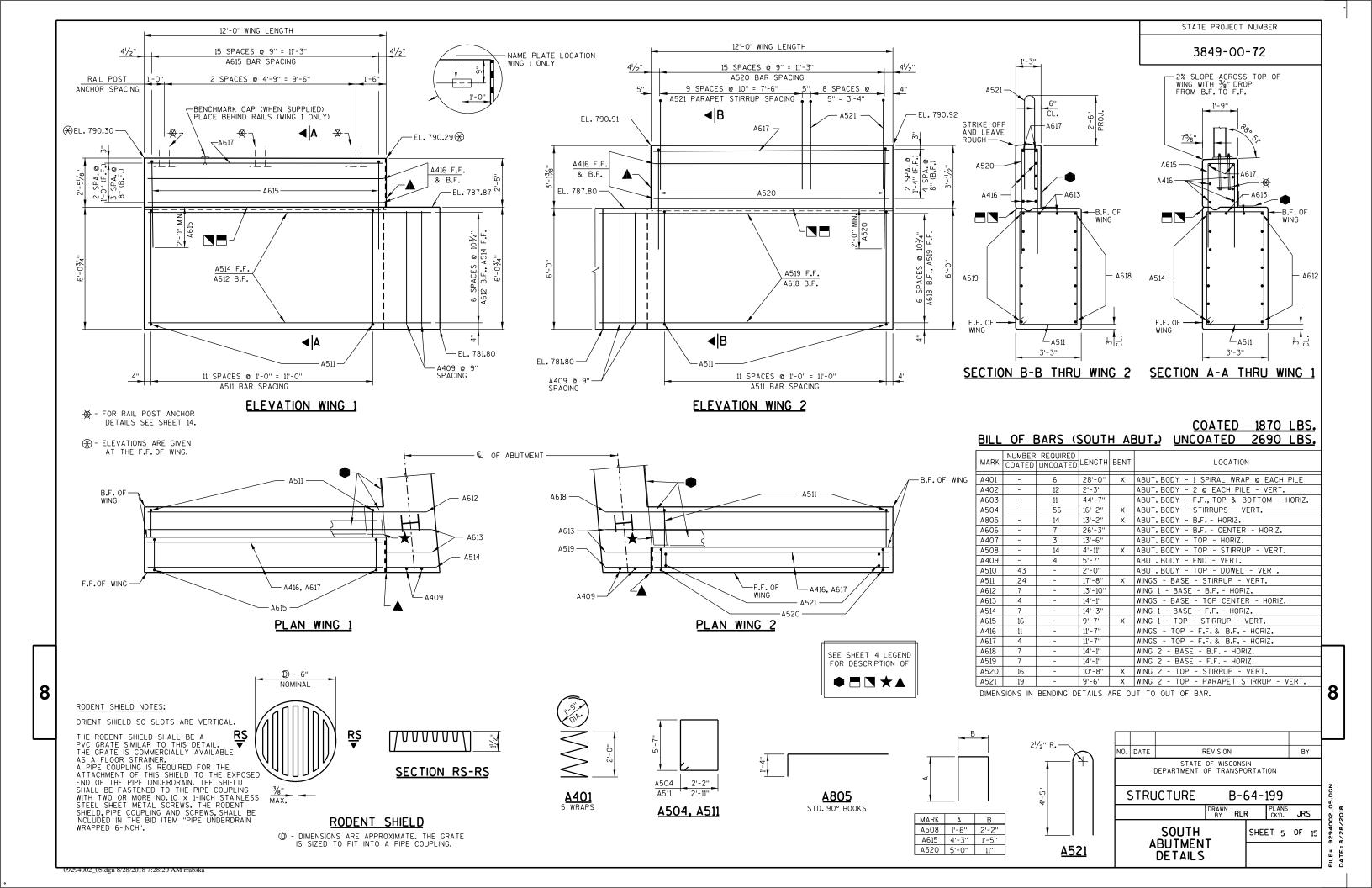


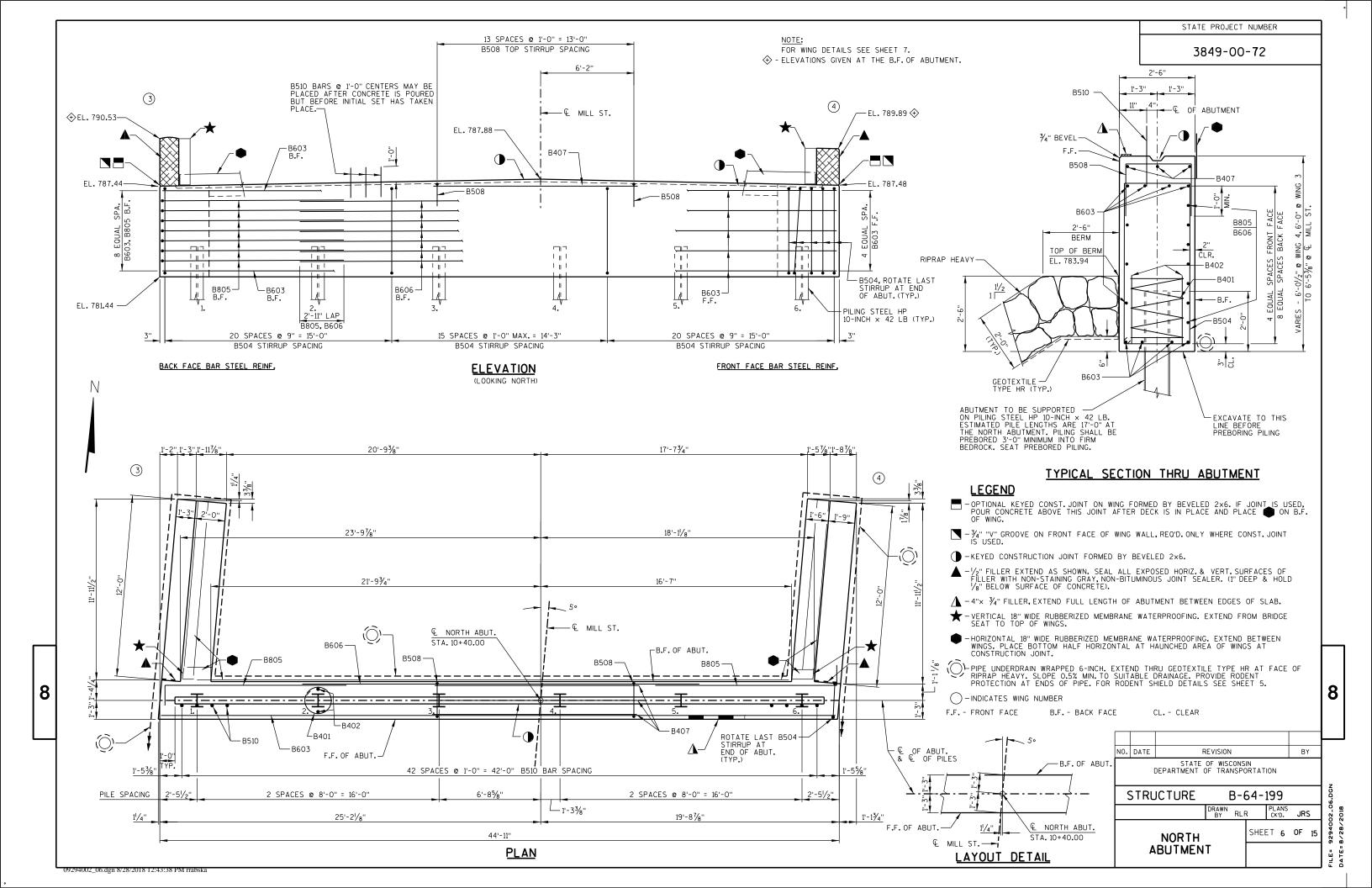


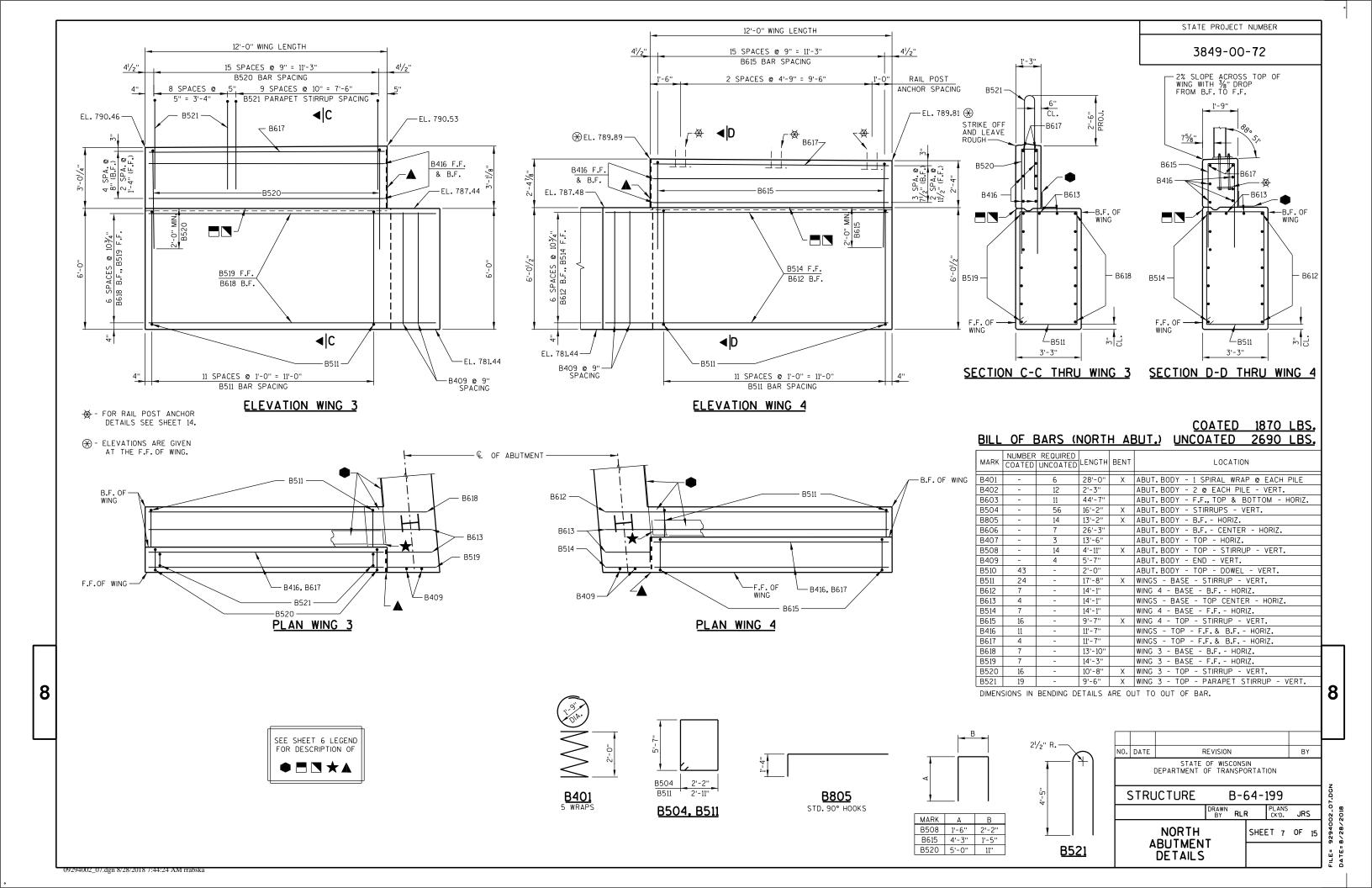
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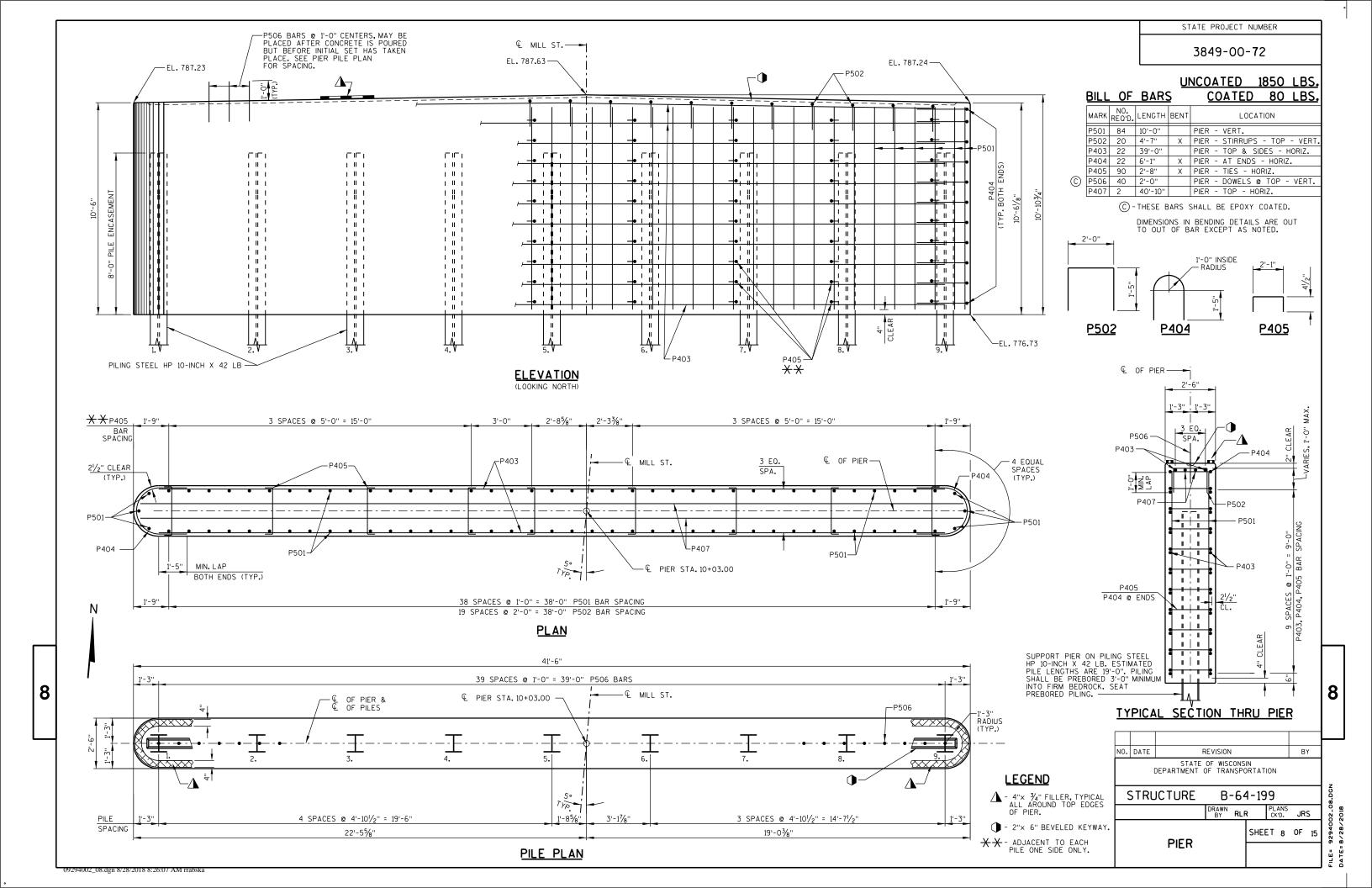














TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-O" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-O" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

PARAPET AND SIDEWALK PLACED ON TOP OF SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

ALL TRANSVERSE BARS SHALL BE PLACED ON THE SKEW.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE, FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

- SLAB THICKNESS
- + CAMBER

NOTES

- + FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
- = TOP OF SLAB FALSEWORK ELEVATION

| NO. | DATE | REVISION | | | | | | |
|-----|--|----------|--|--|--|--|--|--|
| NO. | NO. DATE REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | | | | | |

STRUCTURE B-64-199 PLANS CK'D. DRAWN BY RLR JRS

SUPERSTRUCTURE

SURVEY TOP OF SLAB FLEVATIONS

| <u> </u> | <u> </u> | <u> </u> | | 1 10112 |
|-------------|------------|----------|--------|---------|
| | | EAST | C/L | WEST |
| | | SLAB | MILL | SLAB |
| LOCATION | SPAN POINT | EDGE | STREET | EDGE |
| SOUTH ABUT. | 1.0 | | | |
| | 1.5 | | | |
| PIER | 2.0 | | | |
| | 2.5 | | | |
| NORTH ABUT | 3.0 | | | |

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE & OF ABUTMENTS, THE & OF PIER, AND AT THE 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND &. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

| | | S418 @ 1'-6" : S519 @ 6" SPA S417 @ 6" SPA | \ | DEFLECTION JOINT I SIDEWALK AND PARA AT & OF PIER. SE DETAIL SHEET 12. | N 5° SKEW PET (TYP.) | - | - FO DE | R PARAPET ANTAILS SEE SHE | EDGE OI AND PA | F SIDEWALK — RAPET. | , <u> </u> | | | |
|--|----------------------------|--|-----|---|----------------------------|-------------------------------------|---------------------|---------------------------|-------------------|------------------------|---|---------------|---|---------------------|
| | | , | + | S420 IN SIDE | WALK | | | | S421 IN S | SIDEWALK | | | | SHOWING SIDEWALK |
| FOR SIDEWALK DETAILS SEE SHEET 11 | | | | 2'-11" MIN. LAP | 12'-1" | | 15'-3" | | S812 S811 | S513 — | | | | BAR |
| | | \$510 | | - | 22'-7" | | | 29'-11" | | _ | | | | SHOWING TOP BAR |
| € MILL STREET—————————————————————————————————— | | | \ | | | | ¦ - | | | | <u> </u> | <u> </u> | | |
| € OF S.ABUT.— | | P. | - | S509 @ 1'-0" SPACING TOP & BOTTOM OF SLA | B 12'-10" | | 10'-5" | - | | | | © OF N. ABUT. | | TTOM BAR |
| B.F. OF ABUT. & END OF SLAB | - - - - - - | 4'-4" | | S905 | | 5'-3" <mark> -</mark> | 6'-9" | | | S808 | 2'-10" | END OF SLAB | | SHOWING BOTTOM BAR |
| | | | S90 | 1 I | S614 - 2/EACH RAIL POST | , , , | | S706 | S707— | I | - - - - - - - - - | 1 1 | - 4/EACH END POST ON EDGE OF SLAB | |
| | | · · · · · · | 1 | <u> </u> | S615 - 4/EACH RAIL POST | | <u> </u> | | EDGE OF S | | | | _ | |
| | | | | | | | | | | | | | | |

82'-6" BACK TO BACK OF ABUTMENTS

37'-0" SPAN 2

43'-0" SPAN 1

TOP OF SLAB ELEVATIONS AND CAMBER VALUES

| | | EAST | C/L | WEST | CAMBER |
|-------------|-------|--------|--------|--------|----------|
| | SPAN | SLAB | MILL | SLAB | VALUE |
| LOCATION | POINT | EDGE | STREET | EDGE | (INCHES) |
| SOUTH ABUT. | 1 | 790.28 | 790.68 | 790.22 | 0.0 |
| | 1.1 | 790.28 | 790.67 | 790.21 | 0.3 |
| | 1.2 | 790.27 | 790.66 | 790.21 | 0.6 |
| | 1.3 | 790.25 | 790.65 | 790.20 | 0.7 |
| | 1.4 | 790.24 | 790.64 | 790.18 | 0.8 |
| | 1.5 | 790.22 | 790.62 | 790.17 | 0.8 |
| | 1.6 | 790.20 | 790.61 | 790.15 | 0.6 |
| | 1.7 | 790.18 | 790.59 | 790.13 | 0.4 |
| | 1.8 | 790.16 | 790.56 | 790.11 | 0.2 |
| | 1.9 | 790.14 | 790.54 | 790.09 | 0.1 |
| PIER | 2 | 790.12 | 790.52 | 790.07 | 0.0 |
| | 2.1 | 790.10 | 790.50 | 790.05 | 0.0 |
| | 2.2 | 790.08 | 790.48 | 790.03 | 0.0 |
| | 2.3 | 790.06 | 790.46 | 790.01 | 0.0 |
| | 2.4 | 790.03 | 790.44 | 789.99 | 0.1 |
| | 2.5 | 790.01 | 790.42 | 789.97 | 0.1 |
| | 2.6 | 789.99 | 790.39 | 789.94 | 0.2 |
| | 2.7 | 789.97 | 790.37 | 789.92 | 0.2 |
| | 2.8 | 789.94 | 790.35 | 789.90 | 0.2 |
| | 2.9 | 789.92 | 790.32 | 789.88 | 0.1 |
| NORTH ABUT. | 3 | 789.90 | 790.30 | 789.85 | 0.0 |

- WEST EDGE OF SLAB ELEVATION IS THE TOP OF SLAB BENEATH SIDEWALK WITH 2%

CROWN FULL WIDTH.

9 SPACES @ 8'-0" = 72'-0" (RAIL POST SPACING EAST EDGE OF SLAB ONLY)

<u>PLAN</u>

43'-0"

SPAN 1

€ OF PIER-

-€ OF S.ABUT

-DESIGN PROFILE GRADELINE **CAMBER DIAGRAM**

37'-0"

SPAN 2

€ OF N. ABUT-

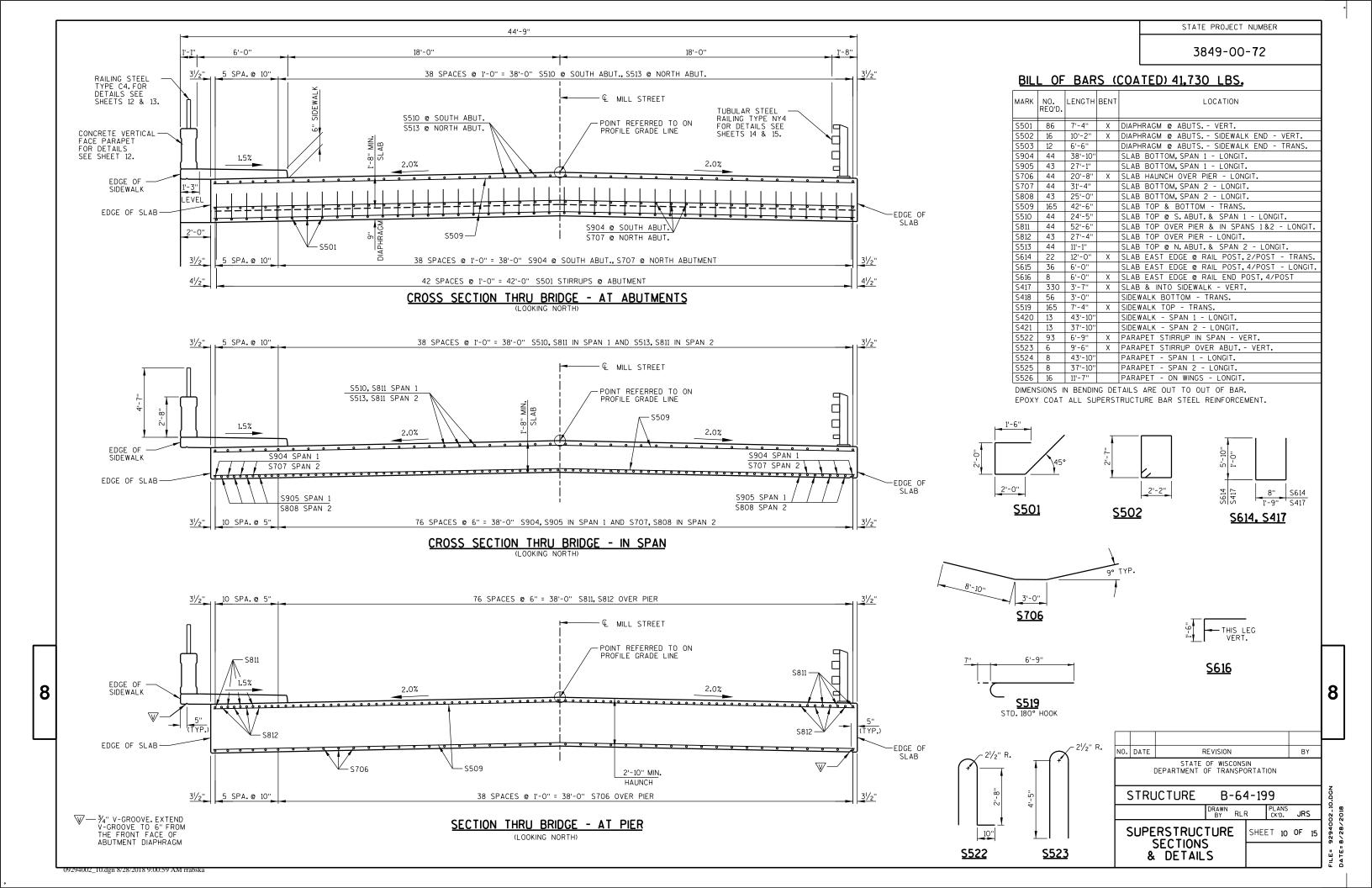
CAMBER SPANS AS SHOWN ABOVE AND IN THE TABLE OF VALUES TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION APPROXIMATES 1/3 OF CAMBER VALUES SHOWN.

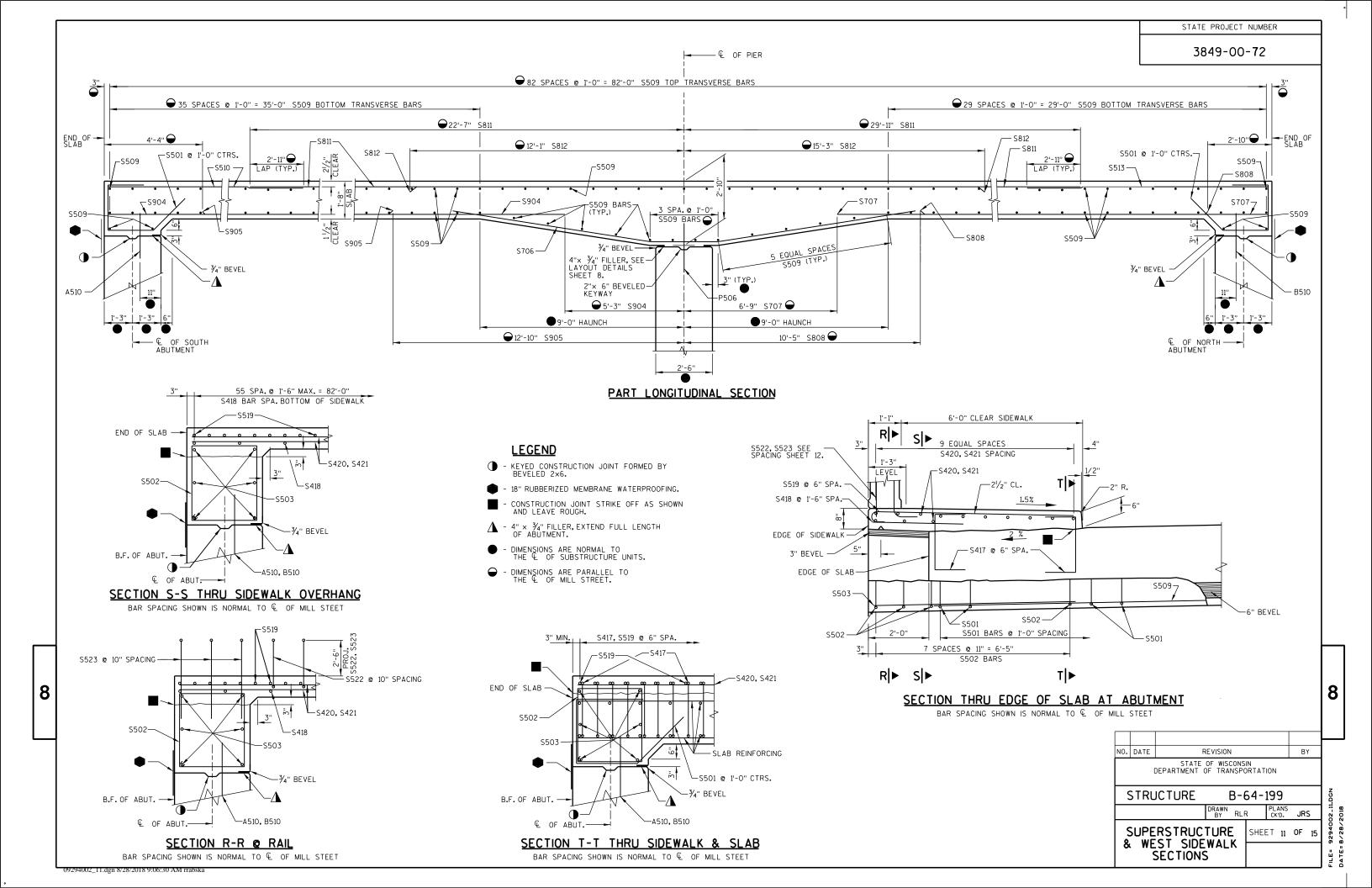
8

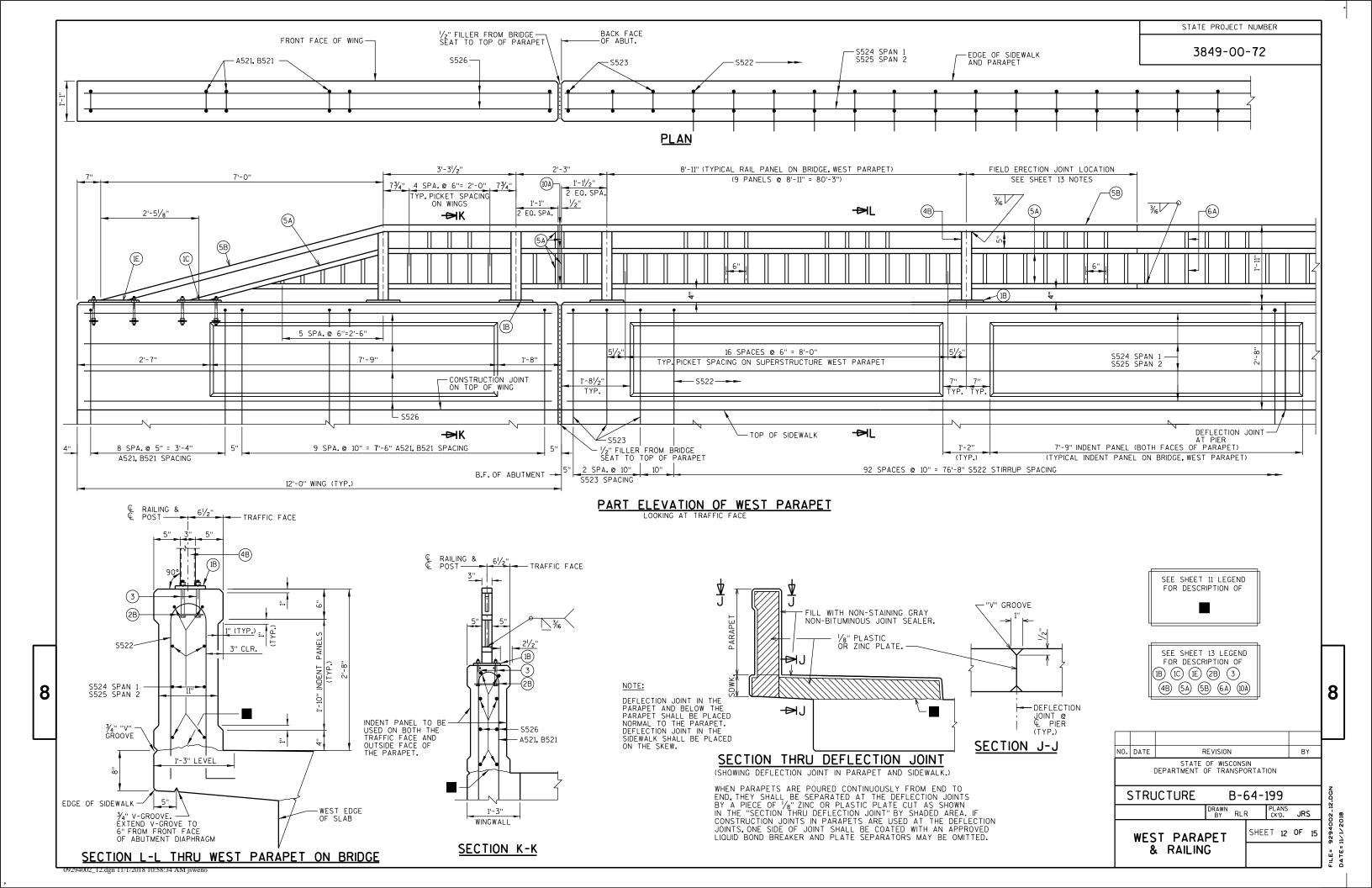
SHEET 9 OF 15

7'-6"

1'-3"







≺SEAL WELD

- (1B) PLATE 5%" X 6" X 10" WITH 34" X 11/2" SLOTTED HOLES.
- (1C)PLATE $rac{5}{8}$ " X 8" X 1'-1" WITH $rac{3}{4}$ " X 1 $rac{1}{2}$ " SLOTTED HOLES.
- (1E) PLATE 58" X 8" X 1'-3" WITH 34" X 11/2" SLOTTED HOLES.
- $(2B)^{1}/_{4}$ " X 5" X 9" ANCHOR PLATE WITH $^{1}/_{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.
- $(2C)^{1}/_{4}$ " X $2^{1}/_{2}$ " X $7^{1}/_{4}$ " ANCHOR PLATE WITH $1^{1}/_{16}$ " DIA. HOLES FOR THR'D. RODS NO. 3.

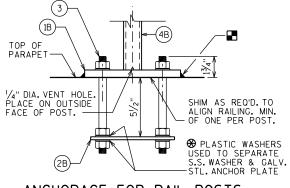
STATE PROJECT NUMBER

3849-00-72

- 3 %" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED HOUS (MIN. LENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP.
 ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS %-INCH.
 EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. SPECIFICATIONS.
- (4B) STRUCTURAL TUBING 3" X 3" X %6". PLACE VERTICAL. WELD TO NO.1 & 5.
- $\stackrel{(5A)}{\text{STRUCTURAL}}$ TUBING 3" X 1½" X $\frac{1}{16}$ " RAILS. WELD TO NO.1& NO.4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- $\stackrel{\sf (5B)}{\sf STRUCTURAL}$ TUBING 3" X 2" X $^{\rm M_6}_{\sf TUBE}$ RAILS. WELD TO NO.1& NO.4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

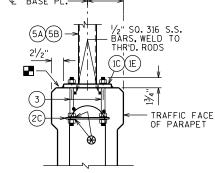
RAILING NOTES

- (9A) RECTANGULAR SLEEVE FABRICATED FROM 36" PLATES. PROVIDE "SLIDING FIT".
- (OA) RECTANGULAR SLEEVE FABRICATED FROM 36" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ ABUTMENT JTS.)

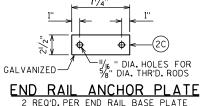


ANCHORAGE FOR RAIL POSTS

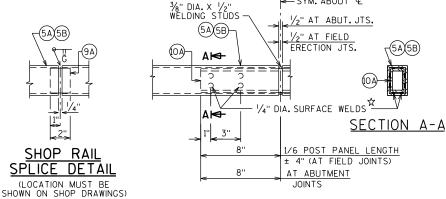
NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.

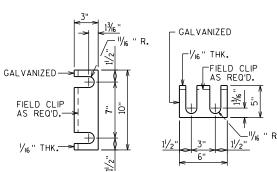


ANCHORAGE FOR END RAIL NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.



SHOP RAIL





POST SHIM DETAIL (2 SETS PER POST)

FIELD ERECTION JOINT DETAIL

☆ MIN. 5%" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. ► SYM. ABOUT &

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709

GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

BID ITEM SHALL BE "RAILING STEEL TYPE C4 B-64-199", WHICH SHALL INCLUDE ALL

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

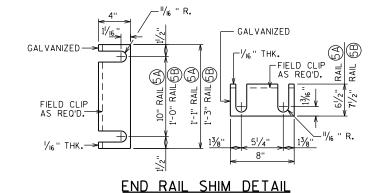
ALL MATERIAL (EXCEPT NO.3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO.6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

NO. DATE



(2 SETS PER POST)

STRUCTURE B-64-199 DRAWN BY RLR RAILING STEEL SHEET 13 OF TYPE C4 DETAILS

REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8

JRS

TOP OF ROADWAY

-EDGE OF SLAB----

RAII INC

-S614 PLACE BARS BELOW TOP MAT OF SLAB

REINFORCEMENT.

2'-4'

(8A)

ELEVATION

11/2"

FOR 6

1)-

⊕¦♠

Φi

(4)

11

SPLICE BAR

(5A)

3-

_

PART ELEVATION OF RAILING AT POST

INTERIOR ELEVATION

PLAN

ANCHORAG

8A)-

5" DIA. ANCHOR

10"

1'-2'

HOLE-

4

HARDENED WASHER -

-S615.S616 AT END POSTS

6¹/8"

10"

SECTION A-A

BASE PLATE DETAIL

€ OF ½" DIA. HOLES THROUGH TUBE

(5A)

€ %" DIA. HOLES

€ OF %" DIA. HOLES THROUGH BAR

1/4" CHAMFER ON ALL EDGES

1'-2"

ANCHOR BOLTS FOR ANCHOR BOLTS IN WINGS, TACK WELD MAY BE USED IN FIELD AFTER ANCHOR PLATE IS IN POSITION IF REG'D. FOR CONSTRUCTIBILITY. 3849-00-72

- (1) W6 X 25 WITH 11/8" X 13/8" HORIZONTAL SLOTTED HOLES ON EACH SIDE OF POST FOR BOLT NO. 6 AT TOP TWO RAILS. USE 1" DIA. HOLES FOR BOLTS NO. 6 AT BOTTOM NO. 5A & FOR BOLT NO. 6A AT NO. 7. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2) PLATE $1^1/4^{"}$ X 10" X 1'-2" WITH $1^1/8^{"}$ X $1^1/6^{"}$ SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- (3) ASTM A449 1" DIA. ANCHOR BOLTS WITH HEAVY HEX NUT AND 2" O.D. HARDENED WASHER (ALL GALVANIZED). 4 REQUIRED PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1"-3" LONG BOLT FOR CONCRETE SLAB. USE 1"-9" LONG IN ABUTMENT WINGS. (AN EQUIVALENT THREADED ROD WITH HEAVY HEX NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQUIRED FOR CONSTRUCTABILITY.)
- 4 $\mbox{3}_{\mbox{\scriptsize M}}"$ X 10" X 1'-2" ANCHOR PLATE (GALVANIZED) WITH 1½6" DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- $\stackrel{(5)}{\sim}$ TS 6 X 6 X $\stackrel{(5)}{\sim}$ STRUCTURAL TUBING. USE 1" DIA. HOLES FOR BOLT NO.6 (FRONT & BACK) & $^{\prime\prime}$ " DIA. HOLES FOR BOLT NO.6A (TOP & BOTTOM).
- (5A) TS 5 X 3 X 1/4" STRUCTURAL TUBING. USE 1" DIA. HOLES FOR BOLT NO. 6. IN TOP RAIL (FRONT & BACK). USE 11/8" X 13/8" HORIZONTAL SLOTTED HOLES FOR BOLT NO. 6 IN BOTTOM RAIL (FRONT & BACK) AND A 2" O.D. WASHER UNDER BOLT HEAD.
- 6 %" DIA. A325 SLOTTED ROUND HEAD BOLT WITH HEX NUT, %" X $1\frac{1}{4}$ " X $1\frac{1}{4}$ " WASHER, AND SPRING LOCK WASHER (2 REQUIRED AT RAIL TO POST LOCATIONS SHOWN).
- (6A) $\frac{7}{4}$ " DIA. A325 BOLT WITH HEX NUT AND SPRING LOCK WASHER (1 REQUIRED AT RAIL TO ANGLE AND 2 REQUIRED AT ANGLE TO POST LOCATIONS SHOWN WITH $\frac{7}{4}$ " X $\frac{17}{4}$ " WASHER).
- 7 L 5 X 5 X 5%" STRUCTURAL ANGLE. ATTACH TO NO. 1 AND NO. 5 AS SHOWN.
- 8 TS 5 X 5 X \(\frac{1}{6}\)" X 2'-4" LONG SPLICE TUBE. 1 PER RAIL. USED IN NO. 5.
- (8A) 41/4" X 21/8" X 2'-4" LONG SPLICE BAR. 1 PER RAIL. USED IN NO. 5A.
- $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$
- 9a $^3\!\!/_4"$ DIA. A325 FULLY THREADED BOLTS, $41\!\!/_2"$ LONG, WITH 2 WASHERS AND HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT. (4 REQUIRED PER SPLICE). USE 1" X 4" SLOTTED HOLES IN TOP AND BOTTOM OF NO.5A.
- 10 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE, PROVIDE "SLIDING FIT".
- \triangle PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE RAILS, SPLICE TUBES AND FILL PLATES.

BID ITEM SHALL BE "RAILING STEEL TYPE NY4 B-64-199", WHICH INCLUDES ALL ITEMS

RAILING SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL SHALL BE GALYANIZED AFTER FABRICATION. PRIOR TO GALYANIZING, ALL STEEL RAILING POSTS, ANGLES, SPLICE TUBES, SPLICE BARS AND STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

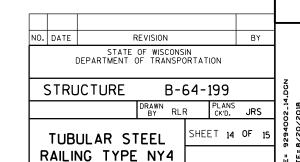
RAIL POST, BASE PLATES, SPLICE BAR, ANGLES AND SPLICE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED $f_{\nu} = 500$ KSI. ANCHOR PLATES & SHIMS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ${}^{\prime}\!/_{\!8}$ TURN.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, CAULK AROUND PERIMETER OF NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER PLATE NO.2 WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).



75%"

6)-

5¹³/₁₆

6

2

713/16

SECTION D-D

SEE SHEET 15 FOR END POST CONNECTION

DETAILS AND RAILING TRANSITION

88°-51

11/2" MIN.

6¾"

(5A)

-¾" V-GROOVE

SECTION THRU RAILING ON SLAB

* NORMAL TO BASE PLATE

FIFLD CLIP

AS REQUIRED

POST SHIM DETAIL

2 SPA. @ 4'-9" (WINGS 1&4)

12'-0" (WINGS 1 & 4)

(5A)

1'-0"

S615 PLACE SYM. ABOUT & POST

S616 AT END POSTS RAILING ANCHORAGE

61/8"

r⇔IC

H(

31/4"

11/16"

THS FACE TO BE VERTICAL

ROADWAY SURFACE

-S614 PLACE BARS BELOW TOP MAT OF SLAB

REINFORCEMENT.

31/16."

Φ*

RAILING ANGLE DETAIL

INTERIOR ELEVATION

<u>-</u>88

€ RAIL SPLICE-RAILING

D₩ŋ

994

€ %" DIA. HOLES

B.F. OF ABUT. & — END OF SLAB

-⊊ OF ⅓" X 1¼" LONGIT.SLOTTED HOLES—

 $+ \bigoplus \bigoplus \bot$

-88A

PLAN

ELEVATION

SPLICE TUBE

5/6" 2-9

1'-6"

-⅓" FILLER

PART ELEVATION OF RAILING

INTERIOR ELEVATION

. 1/2"

-5 SA

-4"x1/4"x2'-3" FILL PLATE

4"×4"×2'-3" FILL PLATE

8'-0" NOR. POST SPACING

ON BRIDGE SLAB SEE SHEET 9

-1"x4" SLOTTED HOLES

TOP AND BOTTOM

PLAN

PROVIDE 1/2" DIA. DRAIN HOLES IN LOW END OF ALL RAILS CLEAR OF SPLICE TUBE

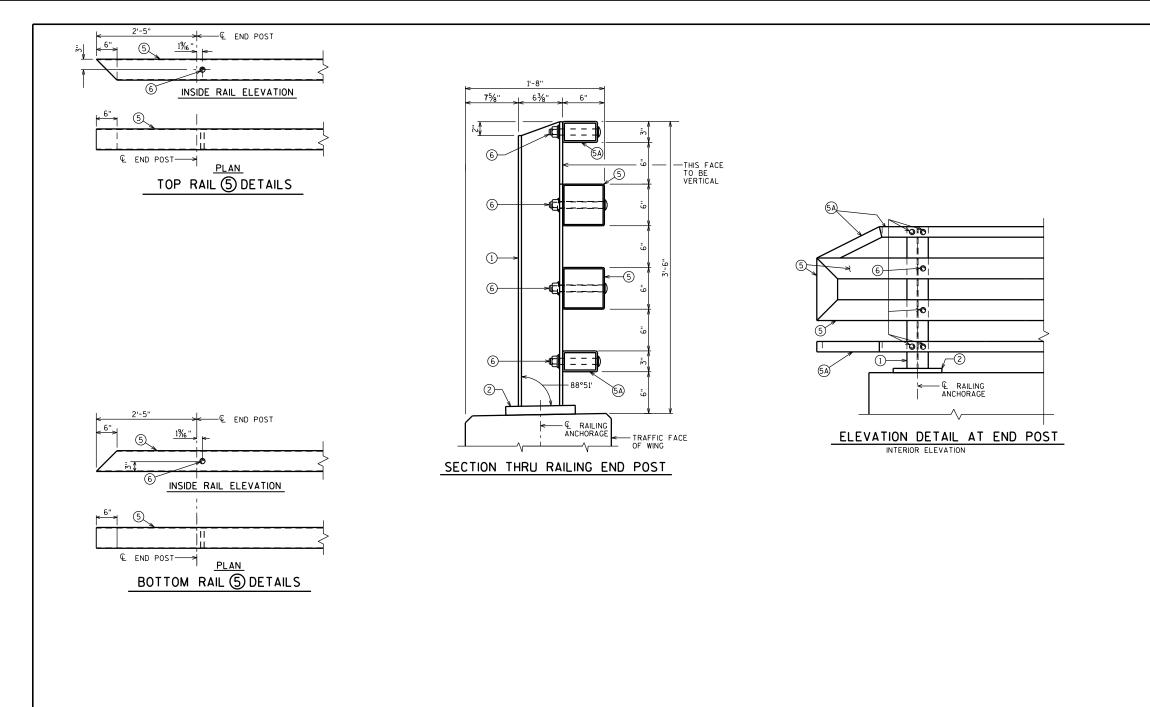
ELEVATION

FIELD ERECTION JOINT DETAIL

% " 2-9

SECTION C-C

8



STATE PROJECT NUMBER

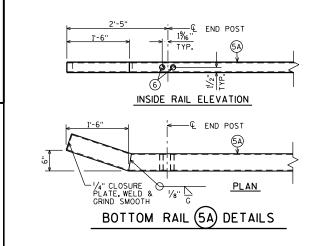
3849-00-72

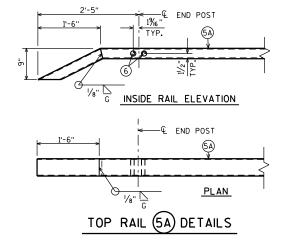
LEGEND

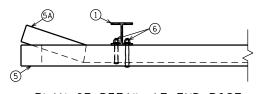
- (1) W6 X 25 WITH 11/8" X 13/8" HORIZONTAL SLOTTED HOLES ON SIDE OF POST FOR BOLT NO. 6 AT NO.5 & AT TOP RAIL NO.5A. USE 1" DIA HOLE FOR BOLT NO.6 AT NO.5A BOTTOM RAIL. CUI BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY, PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- $\begin{tabular}{lll} \hline \end{tabular}$ PLATE 1/4" X 10" X 1'-2". SEE SHEET "TUBULAR STEEL RAILING NY4" (SHEET 14) FOR MORE INFORMATION.
- $\begin{picture}(5)\li>5 \li>6 \times 6 \times \% \end{picture}$ Structural tubing, use 1" dia, holes in front and back of rails for bolt no. 6 as shown in elevation details.
- $\stackrel{\text{\scriptsize (5A)}}{}$ TS 5 X 3 X $^{1}\!/_4$ " STRUCTURAL TUBING. USE 1" DIA. HOLES FOR TOP RAIL NO. 5A (FRONT & BACK). USE 1½" X 1½" HORIZONTAL SLOTTED HOLES FOR BOLT NO. 6 IN BOTTOM RAIL (FRONT & BACK) AND A 2" O.D. WASHER UNDER BOLT HEAD.
- (6) 1/8" DIA. A325 SLOTTED ROUND HEAD BOLT WITH HEX NUT, 3/6" X 13/4" X 13/4" WASHER, AND SPRING LOCK WASHER (I REQUIRED AT RAIL NO. 5 TO POST NO. 1 CONNECTION LOCATIONS SHOWN). 2 REQUIRED AT RAIL NO. 5A TO POST NO. 1 CONNECTION LOCATIONS SHOWN).

NOTES

STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED fy=50 KSI. STRUCTURAL ANGLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50.







PLAN OF DETAIL AT END POST

NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-64-199 DRAWN BY RLR JRS

END POST DETAILS FOR TUBULAR STEEL

RAILING TYPE NY4

SHEET 15 OF

8

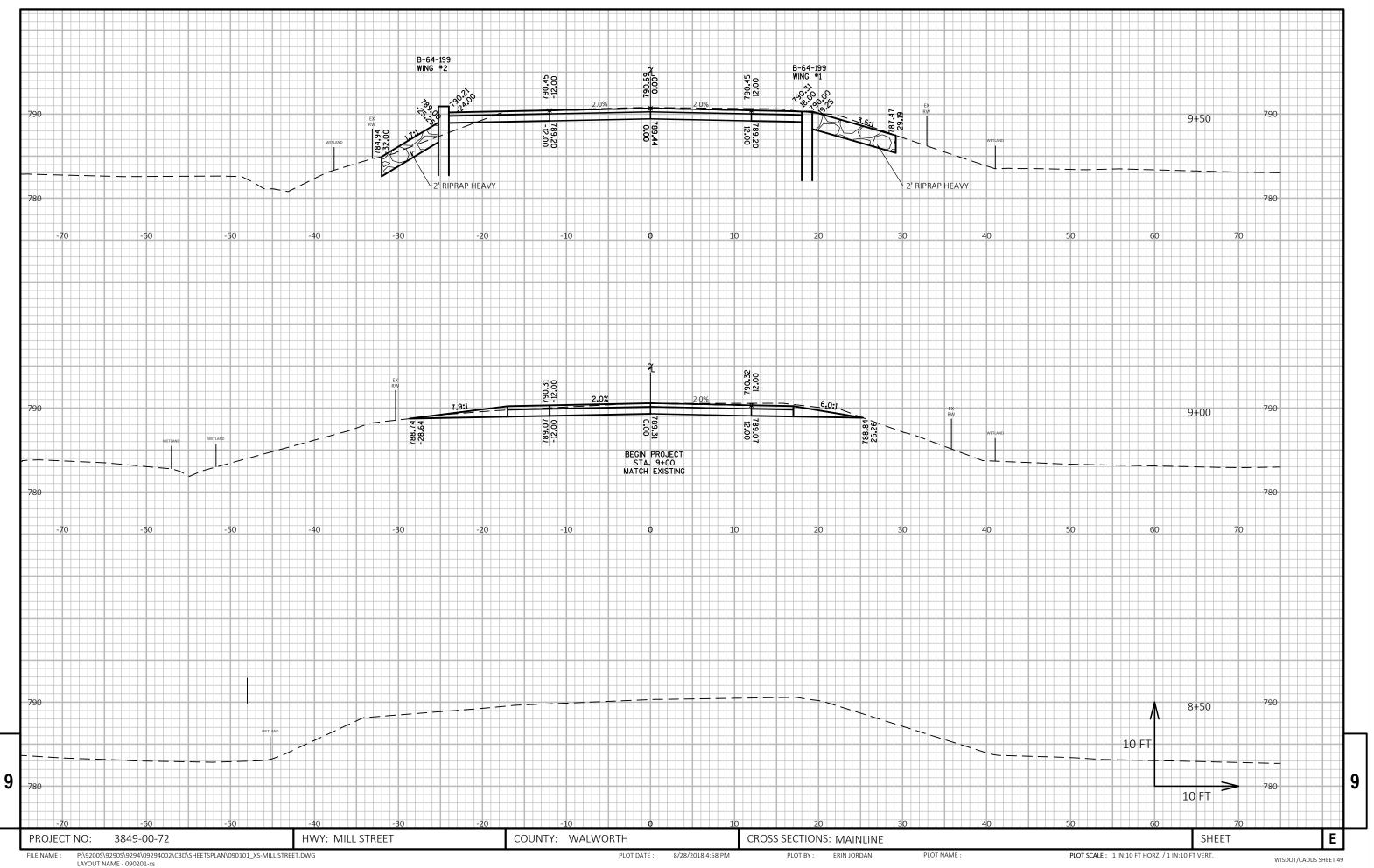
EARTHWORK PROJECT I.D. 3849-00-72 DIVISION 1

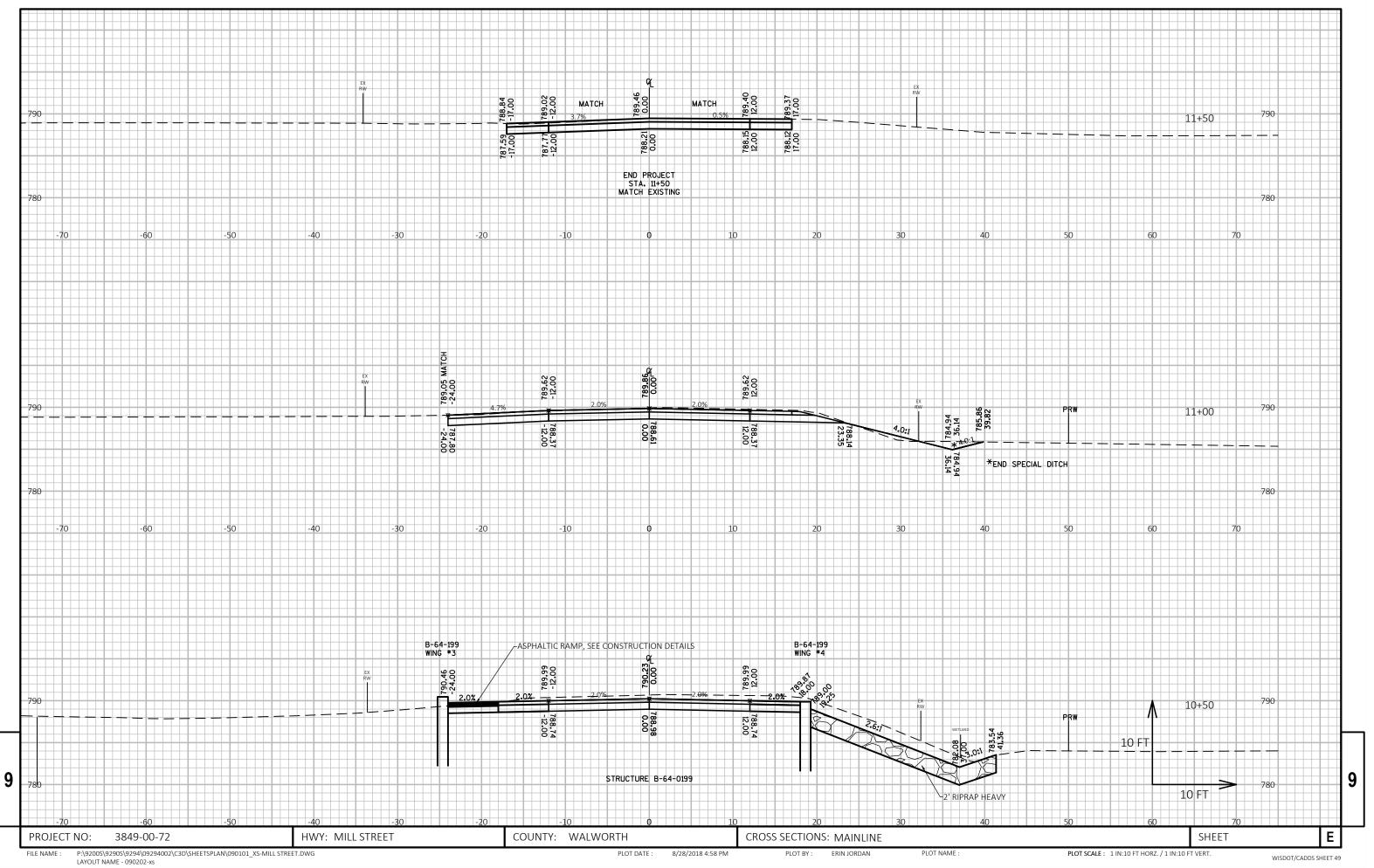
| | | AREA (SF) | | | Incremental Vol (CY) (Unadjusted | 1) | | Cumulative Vol (C | Y) | 4 | |
|-----------|----------|-----------|--|------|----------------------------------|--|--------|-------------------|-----------------------|---------------|--|
| STATION | Distance | Cut | Salvaged/Unusable Pavement Material | Fill | Cut | Salvaged/Unusable Pavement Material | Fill | Cut 1.00 | Expanded Fill 1.30 | Mass Ordinate | |
| | | | | | Note 1 | Note 2 | Note 3 | Note 1 | | Note 8 | |
| 9+00 | | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9+50 | 50 | 85 | 0 | 2 | 157 | 0 | 4 | 157 | 5 | 153 | |
| 9+59 | 9 | 85 | 0 | 2 | 28 | 0 | 1 | 185 | 6 | 179 | |
| B-64-0199 | | | | | | | | | | | |
| | | • | | | | | | | | - | |
| | | | | | 185 | 0 | 4 | | | | |

EARTHWORK PROJECT I.D. 3849-00-72 DIVISION 2

| | | AREA (SF) | | | Incremental Vol | (CY) (Unadjusted) | | Cumulative Vol (C | Y) | | |
|-----------|----------|-----------|--|------|-----------------|--|--------|-------------------|-----------------------|---------------|--|
| STATION | Distance | Cut | Salvaged/Unusable Pavement Material | Fill | Cut | Salvaged/Unusable Pavement Material | Fill | Cut 1.00 | Expanded Fill 1.30 | Mass Ordinate | |
| | | | | | Note 1 | Note 2 | Note 3 | Note 1 | | Note 8 | |
| B-64-0199 | | | | | | | | | | | |
| 10+41 | | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10+50 | 9 | 140 | 0 | 0 | 45 | 0 | 0 | 45 | 0 | 45 | |
| 11+00 | 50 | 65 | 0 | 2 | 120 | 0 | 4 | 166 | 5 | 161 | |
| 11+50 | 50 | 45 | 0 | 0 | 83 | 0 | 0 | 249 | 5 | 244 | |
| | | | | | | | | | | | |
| | | | | | 249 | 0 | 4 | | | | |

COUNTY: WALWORTH SHEET Ε PROJECT NO: 3849-00-72 HWY: MILL STREET EARTHWORK PLOT NAME :







Notes

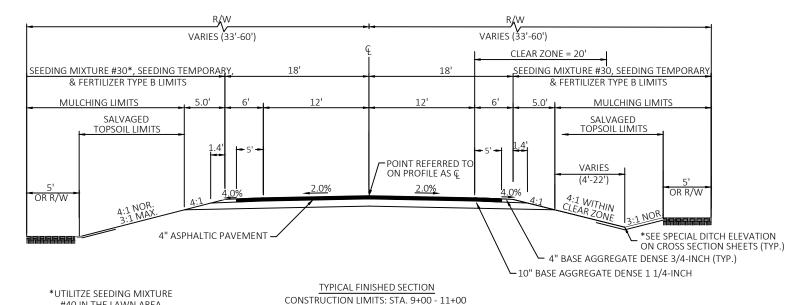


Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

MARCH 2019 FEDERAL PROJECT STATE PROJECT ORDER OF SHEETS STATE OF WISCONSIN **PROJECT** CONTRACT WISC 2019163 3849-00-73 Section No. DEPARTMENT OF TRANSPORTATION Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Section No. Plan and Profile (Includes Erosion Control) Section No. Standard Detail Drawings **HOSPITAL ROAD** 849-00-7 Section No. Computer Earthwork Data (ORE CREEK BRIDGE P-64-0907) Section No. Cross Sections LOCAL STREET TOTAL SHEETS = 32 **WALWORTH COUNTY** ACCEPTED FOR STATE PROJECT NUMBER 3849-00-73 Prairie ORIGINAL PLANS PREPARED BY 36 31 STRUCTURE B-64-0200 8 PRAIRIE RD RD DESIGN DESIGNATION END CONSTRUCTION A.A.D.T. 2019 = 930 A.A.D.T. 2039 = 1000 BEGIN CONSTRUCTION STATZ D.H.V. = 155 STA. 9+00.00 E-31249 D.D. = 60/40 MADISON DESIGN SPEED = 45 MPH HOSPITAL **ESALS** = 52,000 8 END PROJECT STA. 10+71.00 **CONVENTIONAL SYMBOLS** Y = 359,061.75**ALWO** X = 805,279.91**PLAN PROFILE** WALBRANDT RD CORPORATE LIMITS **GRADE LINE** BEGIN PROJECT ORIGINAL GROUND PROPERTY LINE STA. 9+42.00 SPRINGFIELD Springfiel MARSH OR ROCK PROFILE Y = 359,062.55LOTLINE (To be noted as such) X = 805,150.92LIMITED HIGHWAY EASEMENT SPECIAL DITCH **EXISTING RIGHT OF WAY** STATE OF WISCONSIN GRADE ELEVATION HOLLOW PROPOSED OR NEW R/W LINE **DEPARTMENT OF TRANSPORTATION** DR CULVERT (Profile View) SLOPE INTERCEPT REPARED BY UTILITIES JÓNES RD ALVIN REFERENCE LINE 8 BAXTER & WOODMAN Surveyor ELECTRIC HOWE! RD MSA PROFESSIONAL SERVICES, INC. Designer **EXISTING CULVERT** FIBER OPTIC MSA PROFESSIONAL SERVICES, INC. PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER TELEPHONE SCALE WATER MARSH AREA COORDINATES SHOWN ON THIS PLAN ARE WISCONSIN COUNTY UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.024 MI COORDINATES, WALWORTH COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID **POWER POLE** 6 DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES. **TELEPHONE POLE** WOODED OR SHRUB AREA Ε FILE NAME : P:\92005\92905\9294\09294003\C3D\SHEETSPLAN\010101_TI.DWG PLOT BY: **ERIN JORDAN**



PROJECT LIMITS: STA. 9+42 - 10+71

RUNOFF COEFFICIENT TABLE

| | HYDR | HYDROLOGIC SOIL GROUP | | | | | | | | | | | | | |
|-----------------------|------------|-----------------------|-------------|-----------------------|------------|------------|------------|-------------|-----------------------|------------|------------|------------|--|--|--|
| | | А | | | В | | | С | | | D | | | | |
| | SLOPE | RANG | E (PERCENT) | SLOPE RANGE (PERCENT) | | SLOPE | RANG | E (PERCENT) | SLOPE RANGE (PERCENT) | | | | | | |
| LAND USE: | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | | | |
| ROW CROPS | .08 .22 | .16 .30 | .22 .38 | .12 .26 | .20 .34 | .27 .44 | .15 .30 | .24 .37 | .33 .50 | .19 .34 | .28 .41 | .38 .56 | | | |
| MEDIAN STRIP- TURF | .19 .24 | .20 .26 | .24 .30 | .19 .25 | .22 .28 | .26 .33 | .20 .26 | .23 .30 | .30 .37 | .20 .27 | .25 .32 | .30 .40 | | | |
| SIDE SLOPE: TURF | | | .25 .32 | | | .27 .34 | | | .28 .36 | | | .30 .38 | | | |
| PAVEMENT: | | | | | | | | | | | | | | | |
| ASPHALT | | | | | | .709 | 95 | | | | | | | | |
| CONCRETE | | | | | | .809 | 5 | | | | | | | | |
| BRICK | | | | | | .708 | 80 | | | | | | | | |
| DRIVES, WALK | S | | | | | .758 | 15 | | | | | | | | |
| ROOFS | | | · | | | .759 | 95 | | · | | | | | | |
| GRAVEL ROAD | S, SHOL | JLDER | S | .4060 | | | | | | | | | | | |

TOTAL PROJECT AREA = 0.57 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.53 ACRES

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: MICHAEL J. STATZ, P.E. 2901 INTERNATIONAL LANE, SUITE 300 MADISON, WI 53704-3133 PHONE: (608) 242-7779 EMAIL: MSTATZ@MSA-PS.COM

TOWN OF LYONS ATTN: KARLA HILL, TOWN CLERK 6339 HOSPITAL ROAD PO BOX 337 LYONS, WI 53148 PHONE: (262) 763-9936 EMAIL: TOWNOFLYONS@WI.RR.COM

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN.: CRAIG WEBSTER 141 NW BARSTOW ROOM 180 WAUKESHA, WI 53188 PHONE: (262) 574-2141

EMAIL: CRAIG.WEBSTER@WISCONSIN.GOV

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 1.5 LBS PER 1000 SQUARE FEET. DO NOT STOCKPILE MATERIALS IN WETLANDS, WATERWAYS, OR FLOODPLAINS. SEED AND MULCH STOCKPILES, WINDROWS OF SOIL AND ANY GRADED AREA THAT WILL NOT ULTIMATELY BE PAVED, WITHIN 48 HOURS OF THE INITIAL OR ANY NEW DISTURBANCE IF PERMANENT FINAL RESTORATION WILL NOT OCCUR WITHIN 10-DAYS.

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

EXISTING BRIDGE MARKER SIGNS AND POSTS WILL BE REMOVED BY TOWN OF LYONS PRIOR TO CONSTRUCTION. NOTIFY AND COORDINATE WITH DAVE HELD AT 262-763-8558.

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

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WALWORTH COUNTY. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD88 DATUM USING NGS STATION B3NH0003 LOCATED IN LYONS, WI.

THE 4"ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2 1/4" LOWER LAYER OF 19 MM NOMINAL SIZE AGGREGATE AND A 1 3/4" UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO BRIDGE REMOVAL. SPACING BETWEEN STAKES SHALL BE 3-FT.

TEMPORARY DITCH CHECKS, IF NEEDED, SHALL BE PLACED AS DIRECTED BY ENGINEER.

WETLANDS EXIST FROM STA. 9+00 TO STA. 11+00, THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPT IN THESE AREAS.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

UTILITIES TELEPHONE:

ΑΤ&Τ ATTN: MATT DINNAUER 2005 PEWAUKEE ROAD

WAUKESHA, WI 53188 PHONE: (262) 896-7690 EMAIL: MD9542@ATT.COM

ELECTRIC: WE ENERGIES ATTN: ALEX DANTINNE 500 S 116TH STREET WEST ALLIS, WI 53214 PHONE: (920) 621-6903

EMAIL: ALEX.DANTINNE@WE-ENERGIES.COM

WE ENERGIES PHONE: SCOTT HOLSTEIN 700 S. KANE STREET BURLINGTON, WI 53105 PHONE: (262) 763-1084 EMAIL: SCOTT.HOLSTEIN@WE-ENERGIES.COM COMMUNICATIONS: CHARTER COMMUNICATIONS ATTN: RANDY WOLFGRAM 3520 E. DESTINATION DRIVE APPLETON, WI 54915 PHONE: (920) 378-0378

EMAIL: RANDY.WOLFGRAM@CHARTER.COM

FIBER OPTICS:

STATE LONG DISTANCE TELEPHONE COMPANY/TDS TELECOMMUNICATIONS CORP. ATTN: MATTHEW SCHULTE

16924 WEST VICTOR ROAD NEW BERLIN, WI 53151 PHONE: (262) 754-3063

EMAIL: MATT.SCHULTE@TDSTELECOM.COM

**-DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



PROJECT NO: 3849-00-73 HWY: HOSPITAL ROAD COUNTY: WALWORTH TYPICAL SECTION AND GENERAL NOTES **SHEET** Ε

P:\9200S\9290S\9294\09294003\C3D\SHEETSPLAN\020101 GN TS.DWG FILE NAME LAYOUT NAME - TS_GN

#40 IN THE LAWN AREA

8/24/2018 3:11 PM

ERIN JORDAN

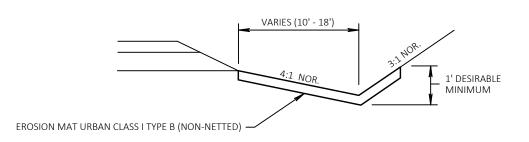
PLOT BY:

PLOT NAME

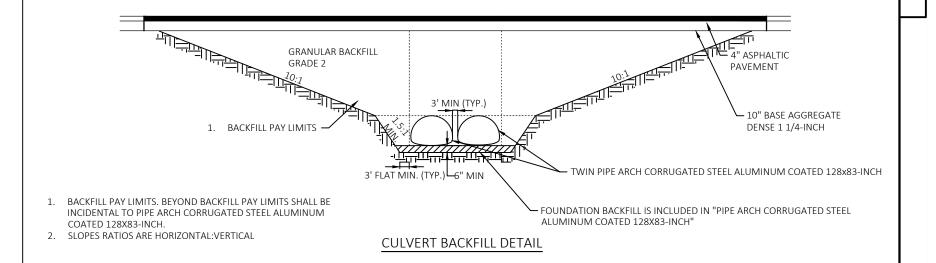
PLOT SCALE :

##########

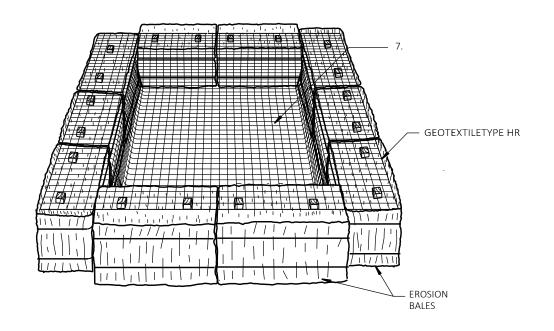
WISDOT/CADDS SHEET 42



EROSION MAT DITCH DETAIL SE QUADRANT DITCH



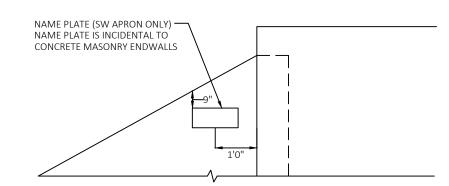
- 1. CONTRACTOR SHALL PUMP WATER FROM WORK AREA EXCAVATION TO BASIN PRIOR TO DISCHARGING.
- 2. BASIN SHALL BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT SITE.
- 3. SIZE TO BE DETERMINED BY THE ENGINEER IN THE FIELD BASED ON WATER QUANTITY AND QUALITY.
- 4. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED, USED GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT SITE AT NO COST TO THE DEPARTMENT.
- 5. GEOTEXTILE TYPE HR TO BE PAID FOR SEPARATELY.
- 6. EROSION BALES TO BE PAID FOR SEPARATELY.
- 7. DEWATERING BAG SHALL BE PLACED INSIDE TEMPORARY SETTLING BASIN TO MEET WATER QUALITY DISCHARGE STANDARDS.
- 8. DO NOT PLACE TEMPORARY SETTLING BASIN WITHIN WETLAND AREA.



STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE: CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM HEIGHT OF BALES = 1.5 FT. SOLUTION: SV (C.F.) = 16 X 50 SV = 800 C.F. 800 C.F. 1.5 FT. = 533 S.F. USE A 20 FT. X 27 FT. BASIN

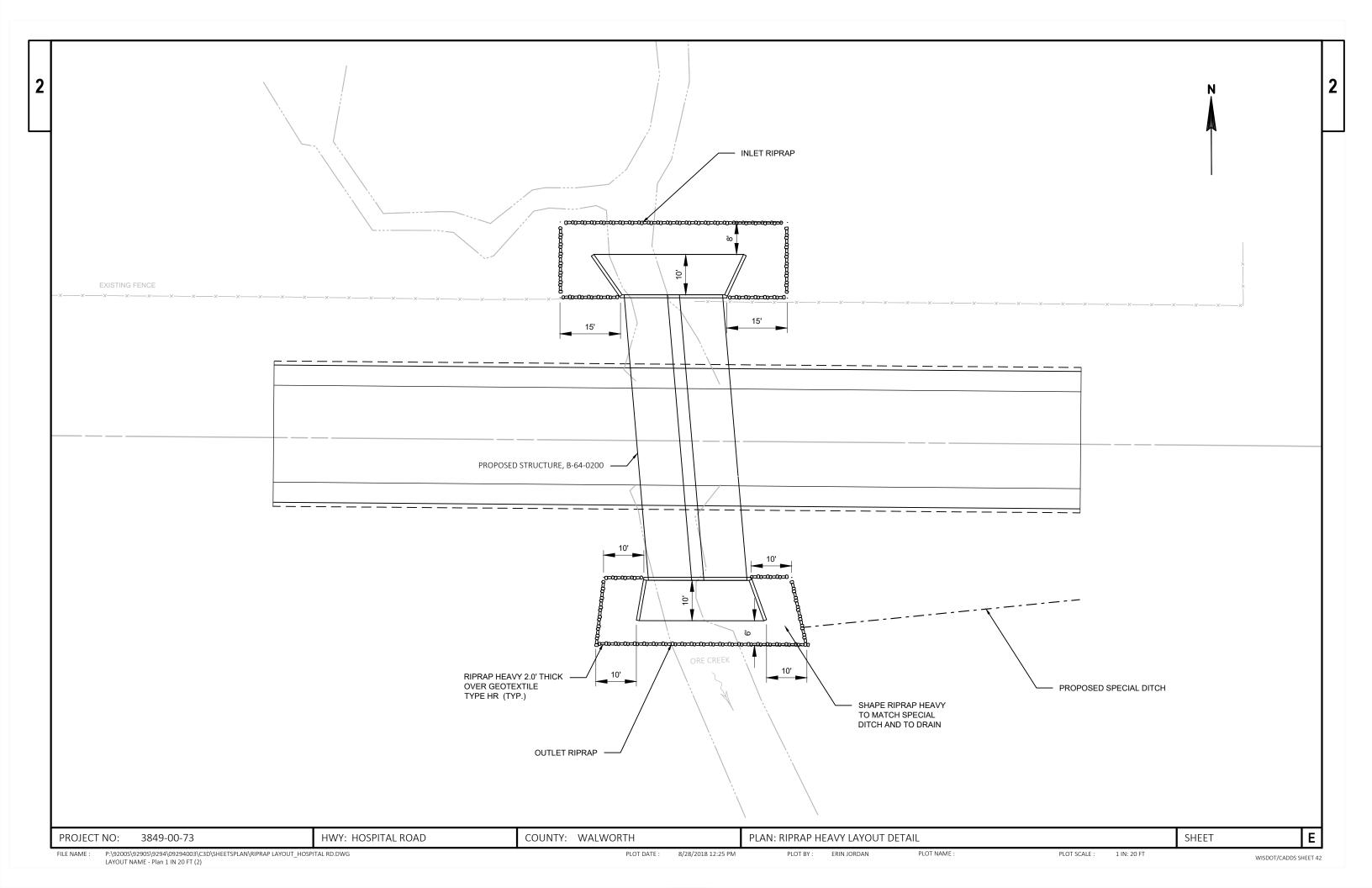
TEMPORARY SETTLING BASIN



NAME PLATE DETAIL SW APRON (INSIDE FACE)

Ε PROJECT NO: 3849-00-73 HWY: HOSPITAL ROAD COUNTY: WALWORTH CONSTRUCTION DETAILS SHEET

WISDOT/CADDS SHEET 42



Estimate Of Quantities By Plan Sets

| | | | | | 3849-00-73 |
|------|------------|--|------|---------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0002 | 201.0105 | Clearing | STA | 2.000 | 2.000 |
| 0004 | 201.0205 | Grubbing | STA | 2.000 | 2.000 |
| 8000 | 203.0600.S | Removing Old Structure Over Waterway With Minimal Debris (station) 02. 10+00 | LS | 1.000 | 1.000 |
| 0010 | 205.0100 | Excavation Common | CY | 198.000 | 198.000 |
| 0014 | 209.2500 | Backfill Granular Grade 2 | TON | 710.000 | 710.000 |
| 0020 | 213.0100 | Finishing Roadway (project) 01. 3849-00-73 | EACH | 1.000 | 1.000 |
| 0022 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 17.000 | 17.000 |
| 0024 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 460.000 | 460.000 |
| 0026 | 455.0605 | Tack Coat | GAL | 29.000 | 29.000 |
| 0028 | 465.0105 | Asphaltic Surface | TON | 129.000 | 129.000 |
| 0036 | 504.0900 | Concrete Masonry Endwalls | CY | 19.000 | 19.000 |
| 0062 | 606.0300 | Riprap Heavy | CY | 100.000 | 100.000 |
| 0070 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. 3849-00-73 | EACH | 1.000 | 1.000 |
| 0072 | 619.1000 | Mobilization | EACH | 0.280 | 0.280 |
| 0074 | 624.0100 | Water | MGAL | 36.000 | 36.000 |
| 0078 | 625.0500 | Salvaged Topsoil | SY | 590.000 | 590.000 |
| 0800 | 627.0200 | Mulching | SY | 750.000 | 750.000 |
| 0082 | 628.1104 | Erosion Bales | EACH | 40.000 | 40.000 |
| 0084 | 628.1504 | Silt Fence | LF | 520.000 | 520.000 |
| 0086 | 628.1520 | Silt Fence Maintenance | LF | 520.000 | 520.000 |
| 0088 | 628.1905 | Mobilizations Erosion Control | EACH | 2.000 | 2.000 |
| 0090 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 2.000 | 2.000 |
| 0092 | 628.2008 | Erosion Mat Urban Class I Type B | SY | 66.000 | 66.000 |
| 0096 | 628.7504 | Temporary Ditch Checks | LF | 20.000 | 20.000 |
| 0098 | 629.0210 | Fertilizer Type B | CWT | 0.750 | 0.750 |
| 0100 | 630.0130 | Seeding Mixture No. 30 | LB | 14.000 | 14.000 |
| 0102 | 630.0140 | Seeding Mixture No. 30 Seeding Mixture No. 40 | LB | 6.000 | 6.000 |
| 0102 | 630.0200 | Seeding Temporary | LB | 31.000 | 31.000 |
| 0104 | 633.5100 | Markers Row | EACH | 12.000 | 12.000 |
| | | | | | |
| 0108 | 633.5200 | Markers Culvert End | EACH | 4.000 | 4.000 |
| 0114 | 642.5001 | Field Office Type B | EACH | 0.280 | 0.280 |
| 0116 | 643.0420 | Traffic Control Barricades Type III | DAY | 504.000 | 504.000 |
| 0118 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 840.000 | 840.000 |
| 0120 | 643.0900 | Traffic Control Signs | DAY | 420.000 | 420.000 |
| 0122 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0126 | 645.0120 | Geotextile Type HR | SY | 305.000 | 305.000 |
| 0128 | 646.1005 | Marking Line Paint 4-Inch | LF | 800.000 | 800.000 |
| 0130 | 650.4500 | Construction Staking Subgrade | LF | 200.000 | 200.000 |

Estimate Of Quantities By Plan Sets

Page 2

| | · | | | | 3849-00-73 |
|------|----------|--|------|---------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0132 | 650.5000 | Construction Staking Base | LF | 200.000 | 200.000 |
| 0134 | 650.6000 | Construction Staking Pipe Culverts | EACH | 2.000 | 2.000 |
| 0138 | 650.6500 | Construction Staking Structure Layout (structure) 01. B-64-200 | LS | 1.000 | 1.000 |
| 0142 | 650.9910 | Construction Staking Supplemental Control (project) 01. 3849-00-73 | LS | 1.000 | 1.000 |
| 0144 | 650.9920 | Construction Staking Slope Stakes | LF | 200.000 | 200.000 |
| 0146 | 690.0150 | Sawing Asphalt | LF | 40.000 | 40.000 |
| 0150 | SPV.0090 | Special 01. Pipe Arch Corrugated Steel Aluminum Coated 128x83-Inch | LF | 142.000 | 142.000 |
| 0152 | SPV.0105 | Special 01. Temporary Water Diversion | LS | 1.000 | 1.000 |

| | | | (455.0605) | (465.0105) |
|----------|---------|------------|------------|------------|
| | | | TACK | ASPHALTIC |
| | | | COAT | SURFACE |
| CATEGORY | STATION | TO STATION | GAL | TON |
| 0010 | 9+00.00 | 11+00.00 | 29 | 129 |
| | PROJEC | T TOTALS | 29 | 129 |

ASPHALTIC SURFACE

CLEARING AND GRUBBING

| CATEGORY 0010 | STATION 9+00 | CLEARING STA 2 | GRUBBING STA 2 | |
|------------------|-----------------|----------------------|----------------------|---|
| | 9+00 | 2 | 2 | |
| | Р | 2 | 2 | = |

BACKFILL GRANULAR

| | | (1) GRADE 2 | (209.2500) GRADE 2 | | | |
|--|----------------|----------------|-----------------------|--|--|--|
| CATEGORY | LOCATION | CY | TON | | | |
| 0010 | B-64-0200 | 70 | 710 | | | |
| | PROJECT TOTALS | 70 | 710 | | | |
| (1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY | | | | | | |

CULVERT PIPE

| • | PROJE | CT TOTALS | 142 | 19 | - | - |
|----------|---------|-----------|-----------------------|------------|-------------------|-------------|
| 0010 | 10+00 | B-64-0200 | 142 | 19 | 0.138 | 3x1 |
| CATEGORY | STATION | STRUCTURE | LF | CY | IN. | IN. |
| | | | 128X83-INCH | ENDWALL | STEEL | CORRUGATION |
| | | | STEEL ALUMINUM COATED | MASONRY | MINIMUM THICKNESS | |
| | | | PIPE ARCH CORRUGATED | CONCRETE | | |
| | | | (SPV.0090.01) | (504.0900) | | |
| | | | | | | |

BASE AGGREGATE DENSE

| CATEGORY | STATION | TO STATION | (305.0110) 3/4-INCH TON | (305.0120) 1 1/4-INCH TON | (624.0100) WATER MGAL |
|----------|---------|---------------|-------------------------------|---------------------------------|-----------------------------|
| 0010 | 9+00.00 | 11+00.00 | 17 | 460 | 10 |
| | | PROJECT TOTAL | 17 | 460 | 10 |

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TEMPORARY WATER DIVERSION, STRUCTURE B-64-0200

| (SPV.0105 | .01 | I) |
|-----------|-----|----|
|-----------|-----|----|

| | PROJECT TOTALS | 1 |
|----------|---------------------|----|
| 0010 | STRUCTURE B-64-0200 | 1 |
| CATEGORY | DESCRIPTION | LS |

EARTHWORK PROJECT I.D. 3849-00-73

| Division | From/To Station | Location | Common Excavation (1) | (item # 205.0100) | Salvaged /Unusabl e Pavemen t Material (4) | Available Material (5) | Unexpanded Fill | Expanded Fill (6) | Mass Ordinate +/- (7) | Waste | Borrow | Comment: |
|-------------|-----------------|--------------------|-----------------------------|--------------------------|---|---------------------------|--------------------|----------------------|-----------------------------|----------|------------------|----------|
| | | | Cut (2) | EBS Excavation (3) | | | | Factor | | | (item #208.0100) | |
| 1 | 9+00 - 9+71 | West Hospital Road | 76 | 0 | 0 | 76 | 89 | 111 | -35 | -35 | 35 | |
| 2 | 10+33 - 11+00 | East Hospital Road | 122 | 0 | 0 | 122 | 53 | 67 | 55 | 55 | -55 | |
| | STRUC | TURE B-64-0200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | UNDIS | TRIBUTED EBS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Grand Total | | | 198 | 0 | 0 | 198 | 142 | 178 | 20 | 20 | -20 | |
| | <u> </u> | <u> </u> | 1 | 98 | | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | |

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Breaker Run material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) Expanded Fill. Factor = 1.30
- 7) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

HWY: HOSPITAL ROAD COUNTY: WALWORTH SHEET Ε PROJECT NO: 3849-00-73 MISCELLANEOUS QUANTITIES

PLOT BY :

| FINISHING | ITEMS |
|-----------|-------|
| | |

| | | | | | | | | | | * |
|----------------|---------|------------|----------|------------|------------|------------|----------------|----------------|------------|------------|
| | | | | (625.0500) | (627.0200) | (629.0210) | (630.0130) | (630.0140) | (630.0200) | (624.0100) |
| | | | | SALVAGED | MULCHING | FERTILIZER | SEEDING | SEEDING | SEEDING | WATER |
| | | | | TOPSOIL | | TYPE B | MIXTURE NO. 30 | MIXTURE NO. 40 | TEMPORARY | |
| CATEGORY | STATION | TO STATION | LOCATION | SY | SY | CWT | LB | LB | LB | MGAL |
| 0010 | 9+00 | 11+00 | LT | 175 | 255 | 0.35 | 3 | 6 | 14 | 12 |
| | 9+00 | 11+00 | RT | 415 | 495 | 0.40 | 11 | = | 17 | 14 |
| PROJECT TOTALS | | | 590 | 750 | 0.75 | 14 | 6 | 31 | 26 | |

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

| | | | | | * |
|----------|---------|------------|----------|------------|------------|
| | | | | (606.0300) | (645.0120) |
| | | | | RIPRAP | GEOTEXTILE |
| | | | | HEAVY | TYPE HR |
| CATEGORY | STATION | TO STATION | LOCATION | CY | SY |
| 0010 | 9+70 | 10+26 | LT | 60 | 130 |
| | 9+78 | 10+35 | RT | 40 | 95 |
| | P | 100 | 225 | | |

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TEMORARY SETTLING BASIN

| | | (222 4424) | * |
|----------|----------------|------------|------------|
| | | (628.1104) | (645.0120) |
| | | EROSION | GEOTEXTILE |
| | | BALES | TYPE HR |
| CATEGORY | LOCATION | EACH | SY |
| 0010 | B-64-0200 | 40 | 80 |
| | PROJECT TOTALS | 40 | 80 |

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

SILT FENCE

| | | | | (628.1504) FENCE | (628.1520) MAINTENANCE |
|----------|---------|------------|----------|---------------------|---------------------------|
| CATEGORY | STATION | TO STATION | LOCATION | LF | LF |
| 0010 | 9+00 | 11+00 | RT | 194 | 194 |
| | 9+00 | 11+00 | LT | 233 | 233 |
| | | 93 | 93 | | |
| | F | 520 | 520 | | |

MOBILIZATIONS EROSION CONTROL

| | | (628.1905) | (628.1910) EMERGENCY |
|----------|--------------------|------------|-------------------------|
| CATEGORY | DESCRIPTION | EACH | EACH |
| 0010 | PROJECT 3849-00-73 | 2 | 2 |
| | PROJECT TOTALS | 2 | 2 |

EROSION MAT URBAN CLASS I TYPE B

| CATEGORY | STATION | TO STATION | LOCATION | (628.2008) SY |
|----------|---------|------------|----------|------------------|
| 0010 | 10+32 | 11+00 | RT | 66 |
| | 66 | | | |

TEMPORARY DITCH CHECKS

| • | PROJEC | T TOTAL | 20 |
|----------|---------|----------|------------|
| | UNDIST | RIBUTED | 10 |
| 0010 | 10+70 | RT | 10 |
| CATEGORY | STATION | LOCATION | LF |
| | | | (628.7504) |
| | | | |

SHEET PROJECT NO: 3849-00-73 HWY: HOSPITAL ROAD COUNTY: WALWORTH MISCELLANEOUS QUANTITIES PLOT NAME :

(646.1005) (YELLOW) (WHITE) CATEGORY STATION TO STATION LF LF NOTES 9+00 11+00 PROJECT TOTAL 9+00 400 400 SOLID DOUBLE YELLOW CENTERLINE & EDGELINES

MARKING LINE PAINT 4-INCH

MARKERS ROW

| | R/W PT | | | (633.5100) |
|----------|--------------|---------------|-----------|--------------------|
| CATEGORY | POINT NO. | STATION | LOCATION | (033.5100) EACH |
| | FOINT NO. | | | LACIT |
| 0010 | 1 | 9+00.00 | 32.03' LT | 1 |
| | 2 | 9+65.00 | 32.02' LT | 1 |
| | 3 | 9+65.00 | 60.00' LT | 1 |
| | 4 | 10+30.00 | 60.00' LT | 1 |
| | 5 | 10+30.00 | 32.00' LT | 1 |
| | 6 | 11+00.00 | 31.99' LT | 1 |
| | 7 | 11+00.00 | 34.01' RT | 1 |
| | 8 | 10+40.00 | 34.00' RT | 1 |
| | 9 | 10+40.00 | 60.00' RT | 1 |
| | 10 | 9+75.00 | 60.00' RT | 1 |
| | 11 | 9+75.00 | 33.98' RT | 1 |
| | 12 | 9+00.00 | 33.97' RT | 1 |
| | - | PROJECT TOTAL | AL | 12 |

MARKERS CULVERT END

| CATEGORY | STATION | LOCATION | (633.5200) EACH | |
|----------|---------------|----------|--------------------|--|
| 0010 | 9+02 | 35' LT | 1 | |
| | 9+88 | 35' RT | 1 | |
| | 10+16 | 35' LT | 1 | |
| | 10+02 | 35' RT | 1 | |
| | PROJECT TOTAL | | | |

CONSTRUCTION STAKING

| | PROJEC | CT TOTALS | 200 | 200 | 2 | 1 | 200 |
|----------|---------------------|--------------|------------|------------|------------|--------------|------------|
| | PROJEC [*] | T 3849-00-73 | - | - | - | 1 | - |
| | B-6 | 4-0200 | - | - | 2 | - | - |
| 0010 | 9+00 | 11+00 | 200 | 200 | - | - | 200 |
| CATEGORY | STATION | TO STATION | LF | LF | EACH | LS | LF |
| | | | | | CULVERTS | CONTROL | STAKES |
| | | | SUBGRADE | BASE | PIPE | SUPPLEMENTAL | SLOPE |
| | | | (650.4500) | (650.5000) | (650.6000) | (650.9910) | (650.9920) |
| | | | | | | | |

TRAFFIC CONTROL

| | | | (643.5000) | | (643.0420) | | (643.0705) | | (643.0900) |
|----------|---------------------------|------|------------|------------|------------|---------|------------|---------|------------|
| | | | | TRAFFIC | TRAFFIC | TRAFFIC | TRAFFIC | TRAFFIC | TRAFFIC |
| | | | | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL | CONTROL |
| | | | | BARRICADES | BARRICADES | WARNING | WARNING | SIGNS | SIGNS |
| | | | | TYPE III | TYPE III | LIGHTS | LIGHTS | | |
| | | | | | | TYPE A | TYPE A | | |
| CATEGORY | LOCATION | DAYS | EACH | EACH | DAYS | EACH | DAYS | EACH | DAYS |
| 0010 | PROJECT 3849-00-73 | - | 1 | = | - | - | - | - | - |
| | STH 120 INTERSECTION | 21 | - | 2 | 42 | 4 | 84 | 2 | 42 |
| | BROOK ROAD INTERSECTION | 21 | - | 2 | 42 | 4 | 84 | 2 | 42 |
| | BEGINNING OF PROJECT | 21 | - | 7 | 147 | 10 | 210 | 5 | 105 |
| | END OF PROJECT | 21 | - | 7 | 147 | 10 | 210 | 5 | 105 |
| | CLAUSEN ROAD INTERSECTION | 21 | - | 2 | 42 | 4 | 84 | 2 | 42 |
| | STH 36 INTERSECTION | 21 | - | 2 | 42 | 4 | 84 | 2 | 42 |
| | UNDISTRUBUTED | 21 | - | 2 | 42 | 4 | 84 | 2 | 42 |
| | PROJECT TOTALS | | 1 | · | 504 | · | 840 | · | 420 |

SAWING ASPHALT

| | | (690.0150) |
|----------|---------|------------|
| CATEGORY | STATION | LF |
| 0010 | 9+42 | 20 |
| | 10+71 | 20 |
| PRO | 40 | |

PROJECT NO:

3849-00-73

HWY: HOSPITAL ROAD

COUNTY: WALWORTH

PLOT DATE: 8/27/2018 2:27 PM

MISCELLANEOUS QUANTITIES PLOT BY: JASON DOLENS

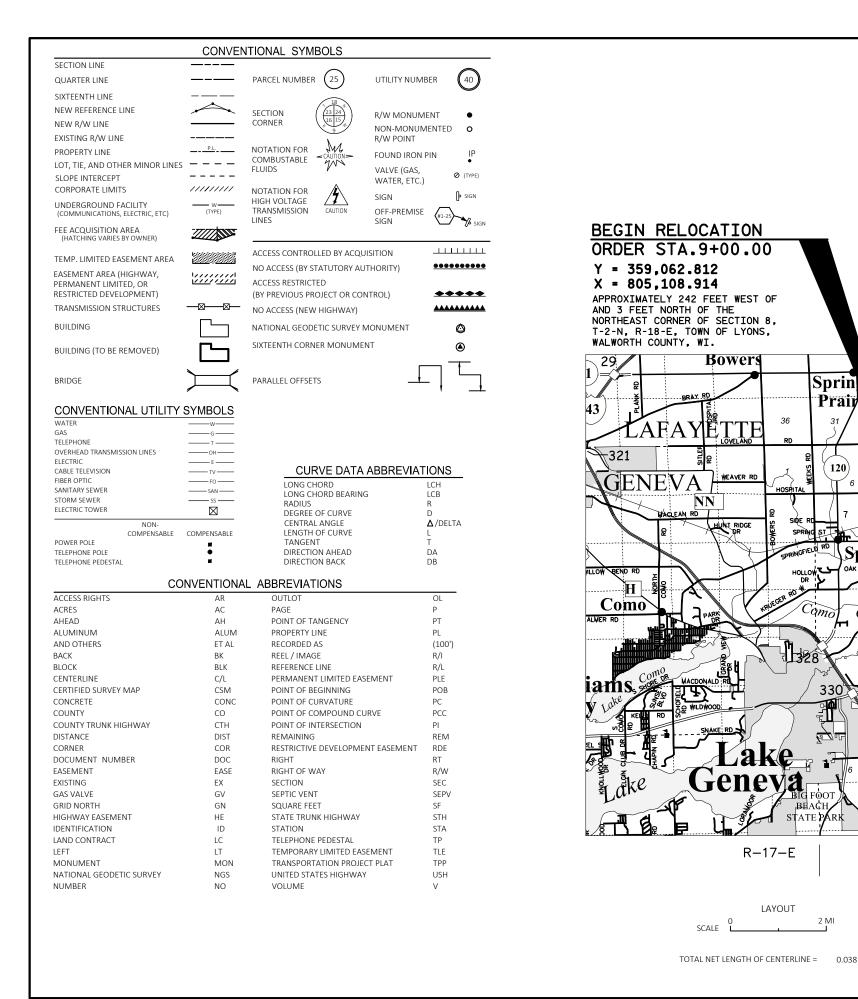
PLOT NAME :

SHEET

P:\9200\$\9290\$\9294\09294003\C3D\\$HEET\$PLAN\030201-MQ BORDER.DWG LAYOUT NAME - 030201-mq FILE NAME :

WISDOT/CADDS SHEET 42

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R/W PROJECT NUMBER NUMBER SHEETS 3849-00-03

PLAT OF RIGHT OF WAY REQUIRED FOR

TOWN OF LYONS, HOSPITAL ROAD ORE CREEK BRIDGE (P-64-0907)

LOCAL STREET

CONSTRUCTION NUMBER: 3849-00-73

END RELOCATION

Y = 359.061.571

X = 805,308.910

11

RIE

STEELE

R-18-E

Sprin

Prair

120)

Springfiel

AND 1 FOOT NORTH OF THE

ORDER STA.11+00.00

APPROXIMATELY 42 FEET WEST OF

NORTHEAST CORNER OF SECTION 8.

T-2-N, R-18-E, TOWN OF LYONS, WALWORTH COUNTY, WI.

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PLOT NAME

CAUTION:

THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

WALWORTH COUNTY

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE SYSTEM COORDINATES (WCCS)

BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS

OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

WALWORTH COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID

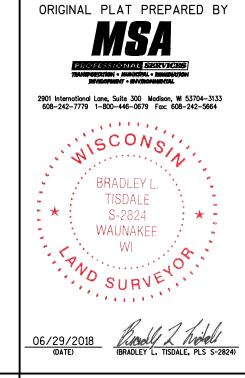
RIGHT-OF-WAY BOLINDARIES ARE DEFINED WITH COLIRSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY

EXISTING RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING RIGHT-OF-WAY FOR HOSPITAL ROAD IS ESTABLISHED BY DEGEN PLAT OF SURVEY AND KROTT

A TEMPORARY LIMITED FASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES. AS DEFINED HEREIN INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN

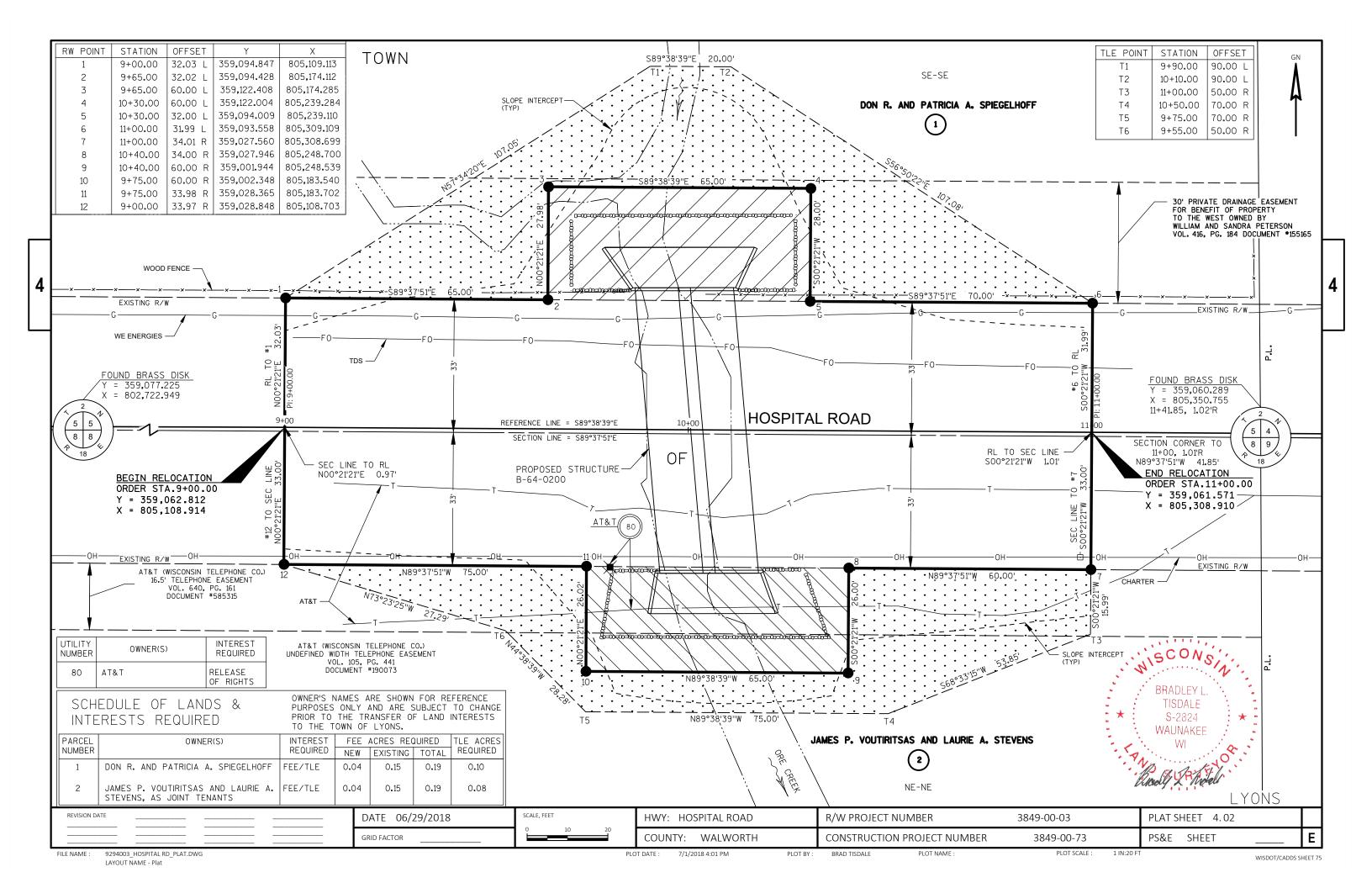
DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

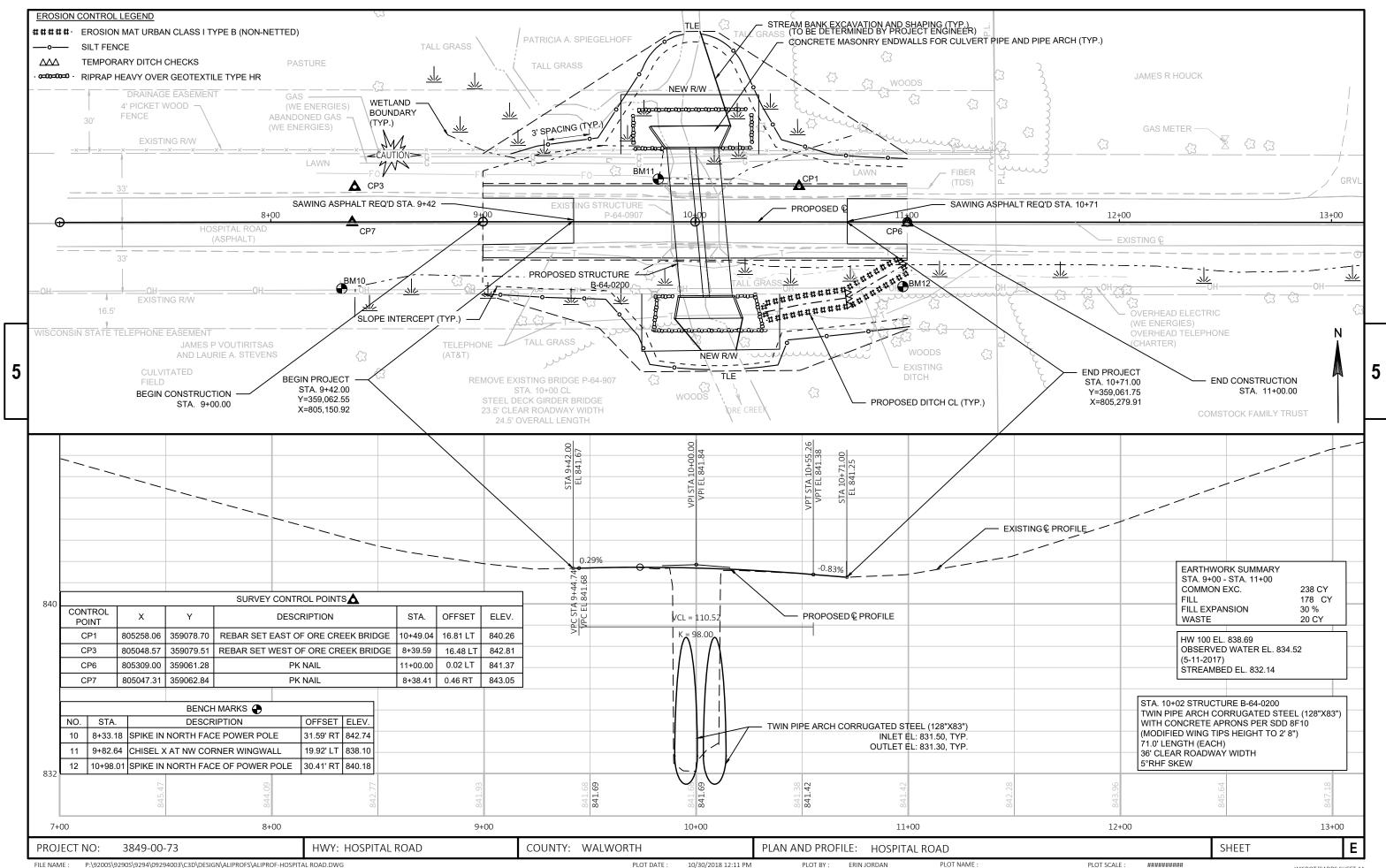


| VISION DATE | TOWN OF LYONS |
|-------------|-----------------------|
| | APPROVED FOR THE TOWN |
| | DATE: (Signature) |

R-17-E

LAYOUT





Standard Detail Drawing List

| 08E08-03 | TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS |
|-----------|---|
| 08E09-06 | SILT FENCE |
| 08F10-01 | CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH |
| 12A03-10 | NAME PLATE (STRUCTURES) |
| 15A01-13A | MARKER POST FOR RIGHT-OF-WAY |
| 15A03-02A | FLEXIBLE MARKER POST FOR CULVERT END |
| 15А03-02В | FLEXIBLE MARKER POST FOR CULVERT END |
| 15C02-06A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15С02-06в | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C08-19A | LONGITUDINAL MARKING (MAINLINE) |
| 15С11-07В | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SIGNS TO POSTS |
| | |

GENERAL NOTES

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

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



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 11/8" X 11/8" 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.



TRENCH DETAIL



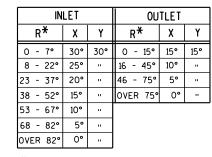
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6



*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

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

FILL SLOPES FLATTER THAN 2 $\frac{1}{2}$:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

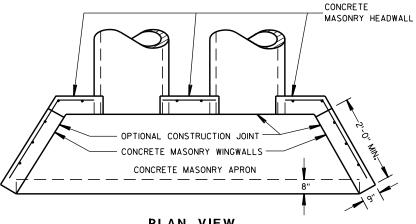
ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

- MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.
- 2 THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

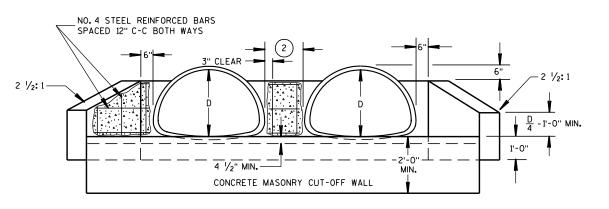
 DIAMETER OR SPAN
 SPACE

 UP TO AND INCLUDING 48"
 2'-0"

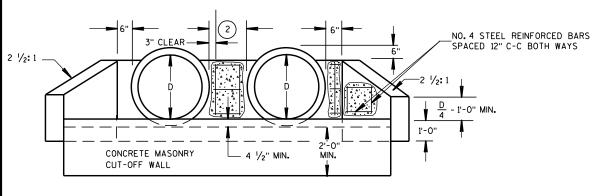
 OVER 48" TO 72"
 ½ DIA. OR SPAN



PLAN VIEW
CULVERT PIPE AND PIPE ARCH

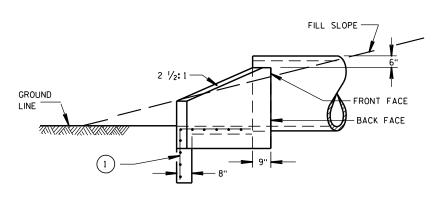


PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS
FOR CULVERT PIPE AND
PIPE ARCH

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98 / S/ Rory L. Rhinesmith

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 F 10





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

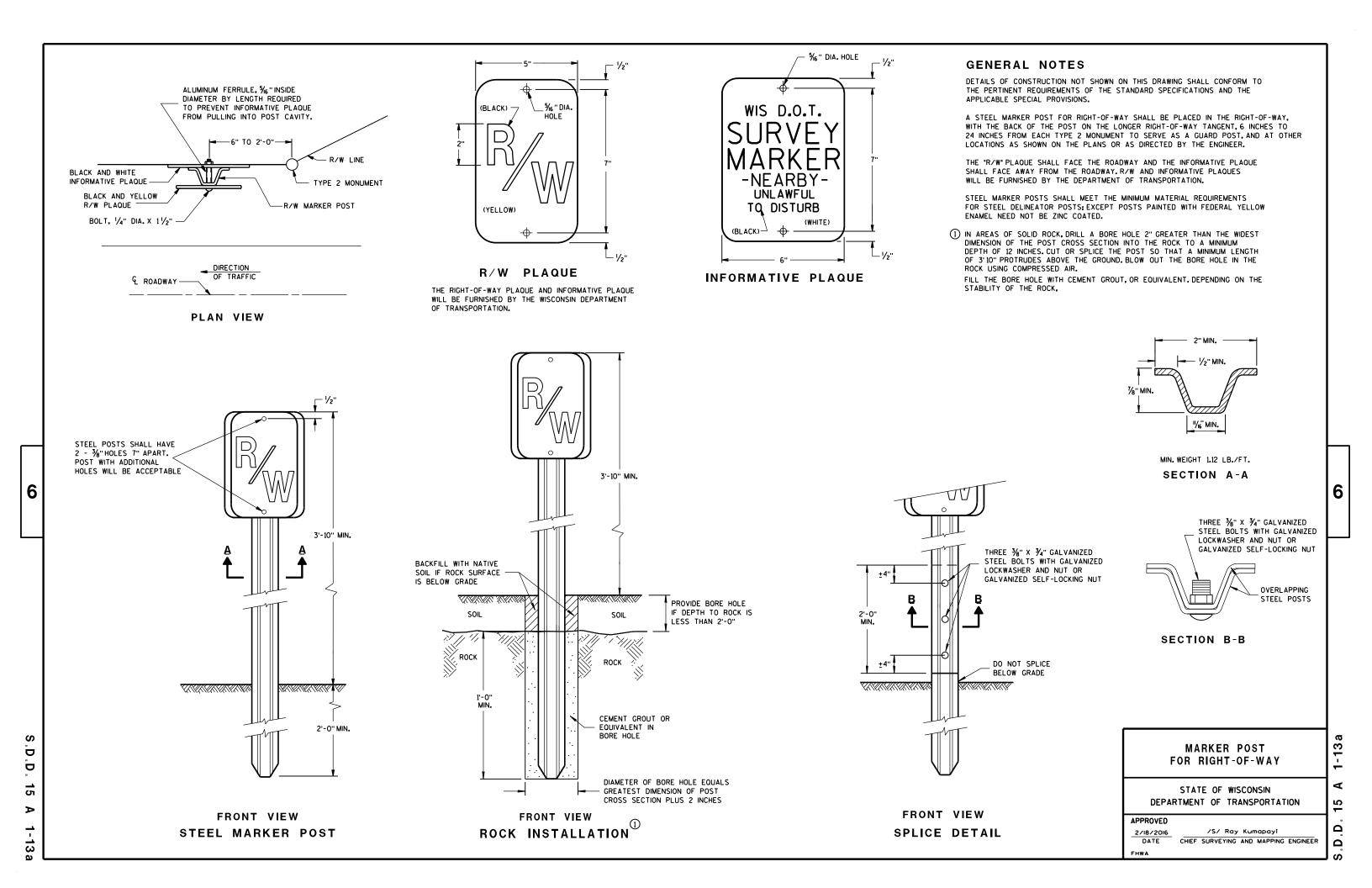
|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10









ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

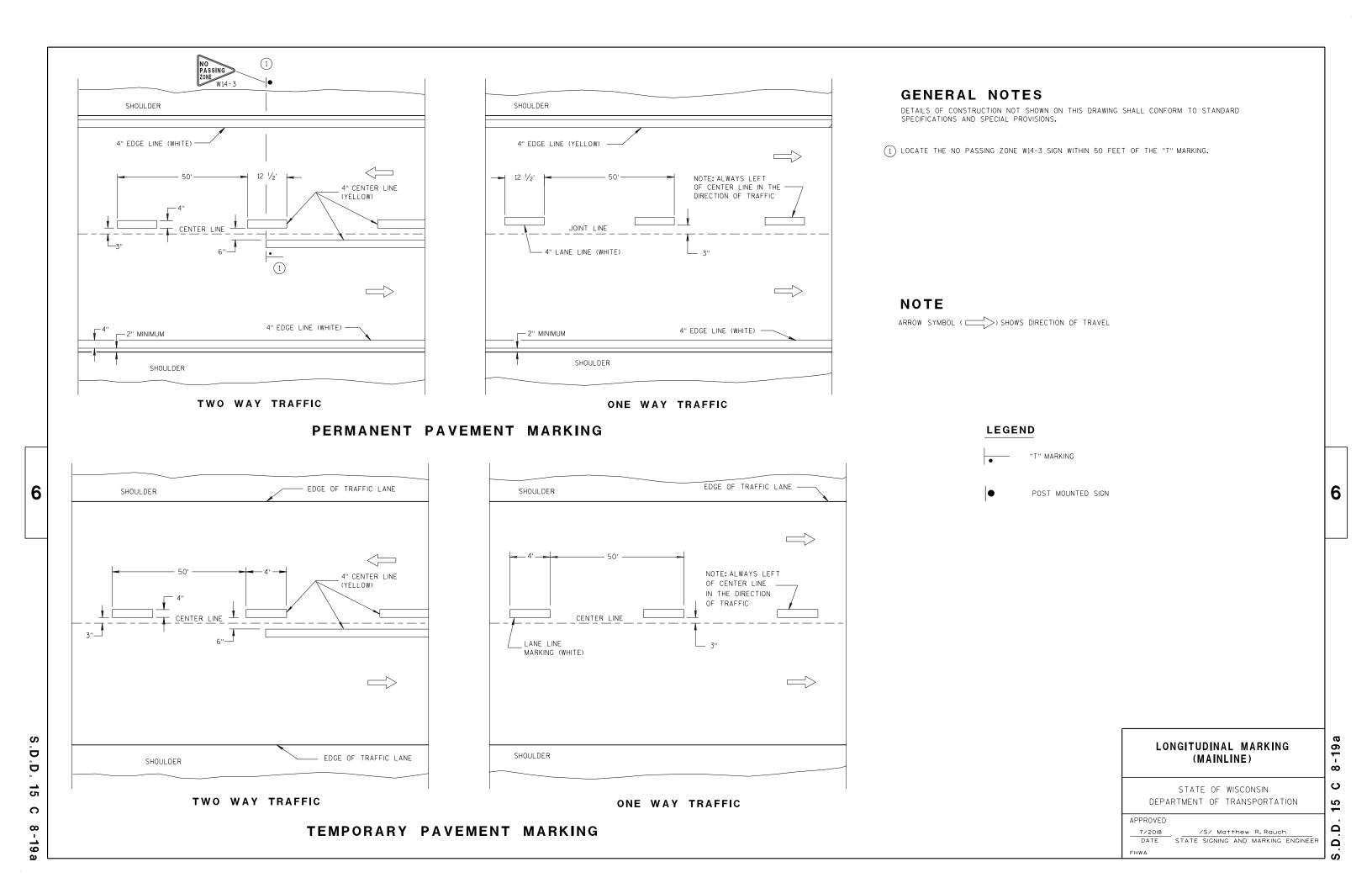
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

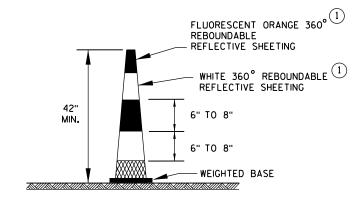
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



DRUM

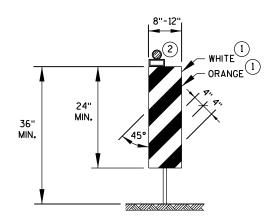
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

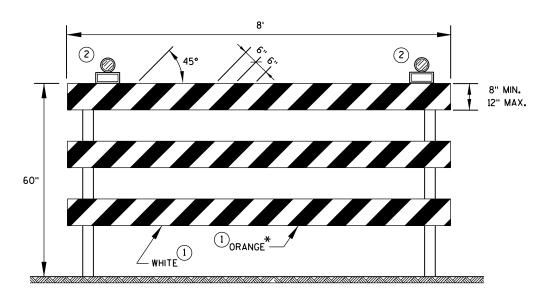


VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

GENERAL NOTES

- REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

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TUBULAR STEEL POSTS

| AREA OF SIGN INSTALLATION (SO. FT.) | NUMBER OF REQUIRED TUBULAR STEEL POSTS |
|--|--|
| 9 OR LESS | 1 |
| GREATER THAN 9 LESS THAN OR EQUAL TO 18 | 2 |
| GREATER THAN 18 LESS THAN OR EQUAL TO 27 | 3 |

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

| AREA OF SIGN INSTALLATION (SQ. FT.) | D (MIN) |
|---|------------|
| 20 OR LESS | 4' |
| GREATER THAN 20 | 5' |

4" X 6" WOOD POST

| POST SPACING REQUIREM | NUMBER OF | | |
|--|-----------|------------------------|---|
| L | E | WOOD POSTS REQUIRED | |
| 48" OR LESS AND LESS THAN 20 SO.FT. | - | 1 | |
| LESS THAN 60" | 12" | 2 | ٤ |
| 60" TO 120" | L/5 | 2 | |
| GREATER THAN 120" LESS THAN 168" | 12" | 3 | |
| 168" AND GREATER | 12" | 4 | |

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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- 11/2" DIAMETER HOLES

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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 - 1/6" 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 - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

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EARTHWORK PROJECT I.D. 3849-00-73 DIVISION 1

| | AREA (SF) | | | | Incremental Vol (CY) (Unadjusted) | Cumulative Vol (CY) | | | | |
|-----------|-----------|-----|--|------|-----------------------------------|--|--------|-------------|--------------------|---------------|
| STATION | Distance | Cut | Salvaged/Unusable Pavement Material | Fill | Cut | Salvaged/Unusable Pavement Material | Fill | Cut 1.00 | Expanded Fill 1.30 | Mass Ordinate |
| | | | | | Note 1 | Note 2 | Note 3 | Note 1 | | Note 8 |
| 9+00 | | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9+42 | 42 | 11 | 0 | 25 | 17 | 0 | 39 | 17 | 51 | -33 |
| 9+42 | 0 | 35 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9+50 | 8 | 33 | 0 | 28 | 10 | 0 | 8 | 10 | 11 | -1 |
| 9+90 | 40 | 33 | 0 | 28 | 49 | 0 | 41 | 59 | 65 | -6 |
| B-64-0200 | | | | | | | | | | |
| _ | · | | _ | _ | | | | | | _ |
| | | | | | 76 | 0 | 89 | | | |

EARTHWORK PROJECT I.D. 3849-00-73 DIVISION 2

HWY: HOSPITAL ROAD

| xpanded Fill Mass Ordinate 1.30 Note 8 |
|--|
| Note o |
| |
| |
| 0 0 |
| 51 21 |
| 69 42 |
| 69 42 |
| 69 53 |
| |

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EARTHWORK SHEET **E**

FILE NAME : P:\9200S\9290S\9294\09294003\C3D\SHEETSPLAN\090101-EW BORDER.DWG LAYOUT NAME - 090101-ew

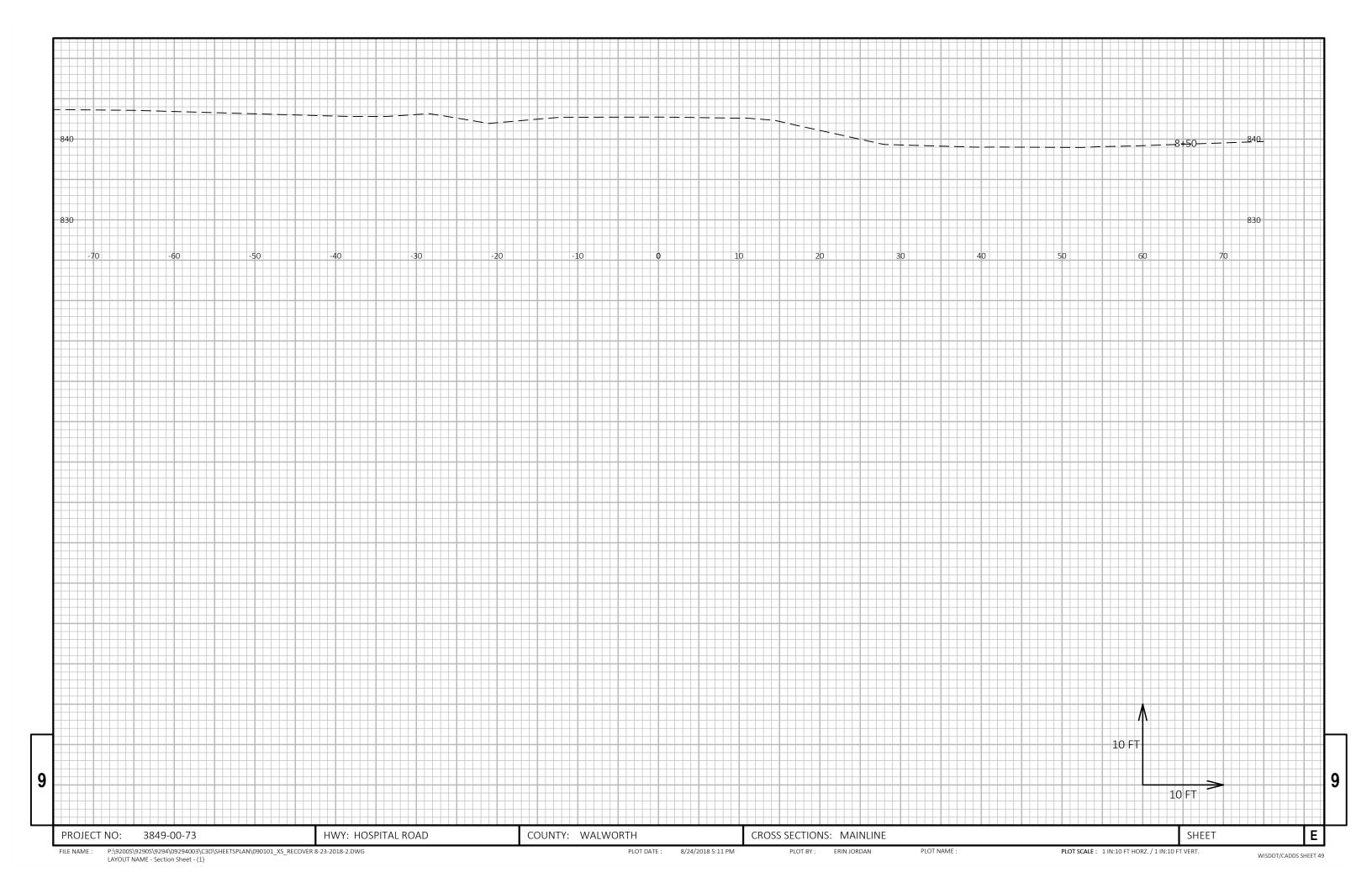
PROJECT NO: 3849-00-73

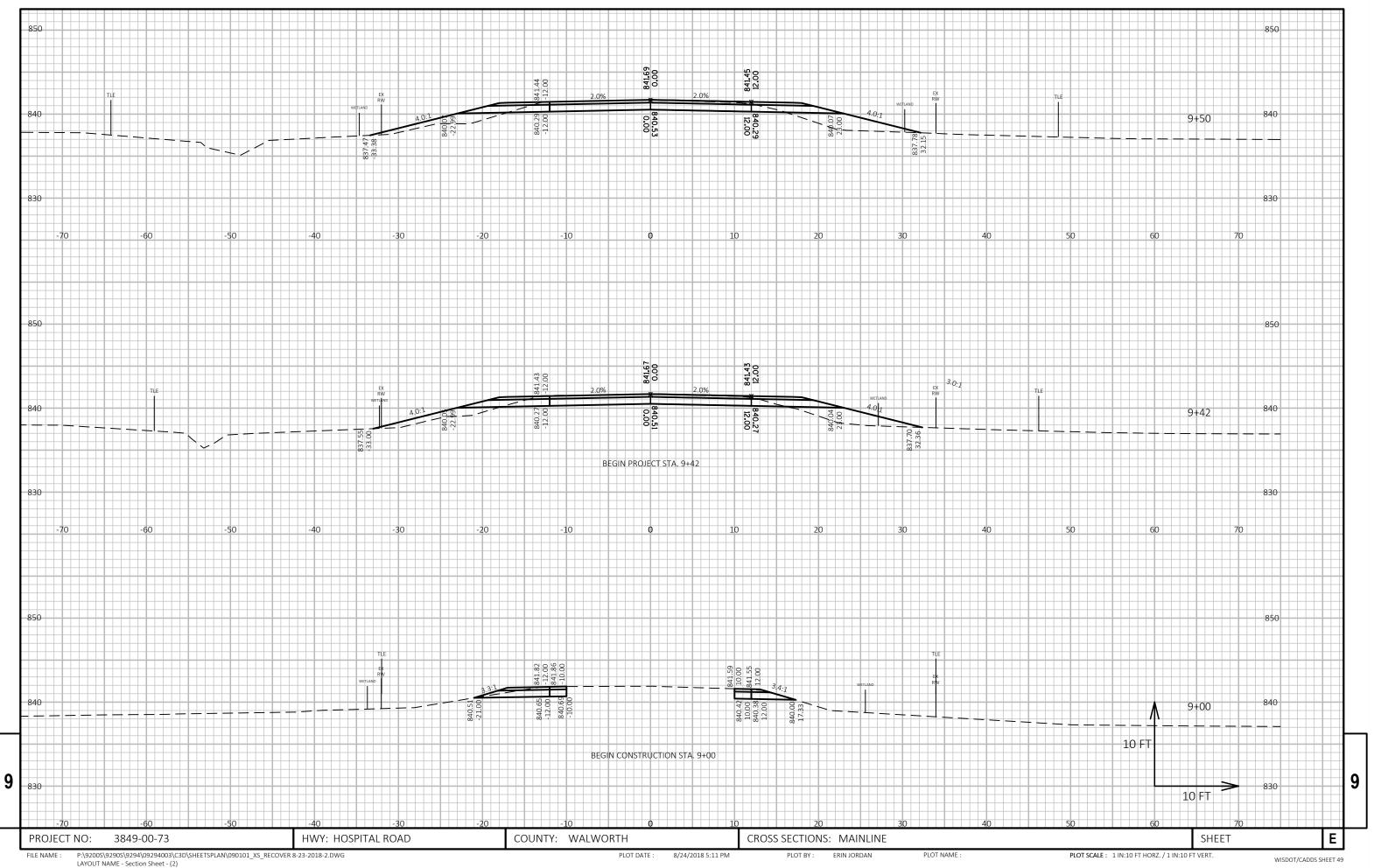
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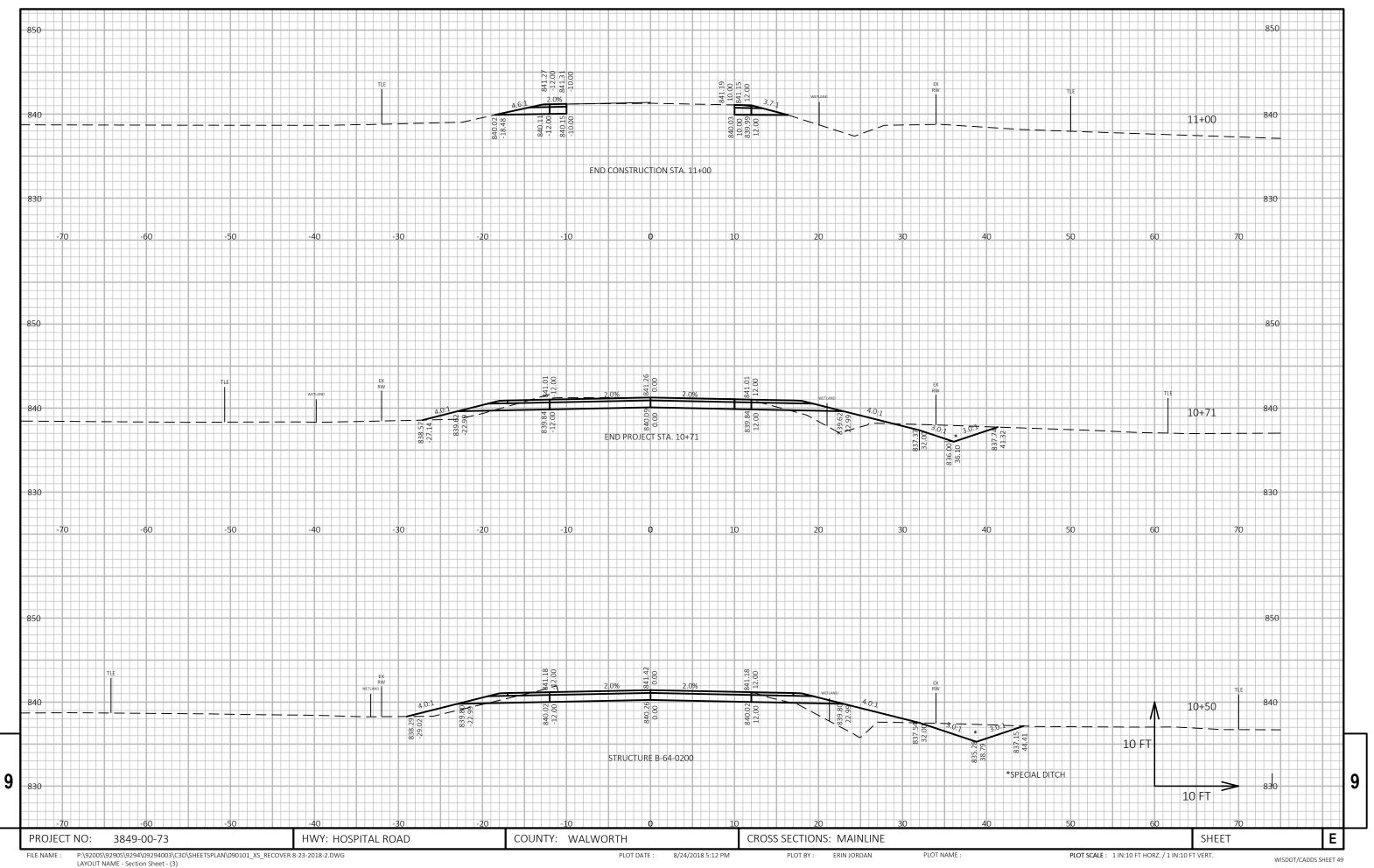
COUNTY: WALWORTH

PLOT BY: JASON DOLENS

PLOT NAME :











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