| MAD | APRIL 2024 | | | | | | | | | |
|----------------------|-------------|-------|------------------------------|----|----------------------------------|--------------|---------------|-----------------|----------------------|-------------------|
| | ORDER OF S | HEETS | | | | | ST | ATE OF W | ISCONS | SIN |
| PRO. WITH: | Section No. | 1 | Title | | | | | | | |
| PROJECT WITH: N/A | Section No. | 2 | Typical Sections and Details | | | DED | | | δυνς | PORTATION |
| | Section No. | 3 | Estimate of Quantities | | | | | | | |
| - <u>-</u> | Section No. | 3 | Miscellaneous Quantities | | | | | | | |
| D: | Section No. | 4 | Right of Way Plat | | | | PLAN | OF PROPOSED | | ENT |
| | Section No. | 5 | Plan and Profile | | | | | | | |
| | Section No. | 6 | Standard Detail Drawings | | | | | | | |
| 6 | Section No. | 7 | Sign Plates | | | | | NONTT | VOW | |
| Ó | Section No. | 8 | Structure Plans | | | | | | NUVV/ | ALD ROAD |
| 4 | Section No. | 9 | Computer Earthwork Data | | | | | • | | |
| Ō | Section No. | 9 | Cross Sections | | | | | FOX RIVER BRIDG | E, B-11-0181 | |
| 6040-00-75 | TOTAL SHEE | TS = | 46 | | | | | LOC S | TR | |
| -7 | | | | | | | C | OLUMBIA | COUNTY | (|
| J | \int | - Ph | A | | | | C | STATE PROJECT | NUMBER |] |
| | | -45 | | | | | | 6040-00 |)-75 | STRUCTURE B- |
| | ⋛┽┵ | | | N | | 10-E 11-E | | CTON | | |
| | | | | L. | | | TOWN OF KING | | R-11-E R-12-E | TOWN OF MANCHEST |
| | च्यू] | 14 | | | BEGIN PROJECT | 1 | GREEN LAKE CO | | | GREEN LAKE COUNTY |
| | | ረተገ | { | | STA. 11+25 | Ber Onwr | | | 34 | GRAND RIVER RD |
| | | ┝┷╼╁ | | | Y = 426,974.40 X = 623.202.84 | | ₽FFF | Spring L. | 5 | Manchester |
| | | 万나 | | | X - 025,202.84 | | | FF FF | King | ton |
| | | TL | ╶┢╼┭┸┯┹┯┸┪ | | | | | STON | NIIIS | |
| | | | | I | | | ITHM | JUIUI | | |
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| DESIGN DES | IGNATIO | N | 6040-00-75 |
|--|------------------|------------------|-------------------------------------|
| A.A.D.T. A.A.D.T. D.H.V. D.D. T. DESIGN SPEED | (2024) (2044) | = = = = | 60/40 10% (ASSUMED) 25 M.P.H. |
| ESALS | | = | 11,000 |



| PLAN | | |
|---|---|----------------|
| CORPORATE LIMITS | | <u>///////</u> |
| PROPERTY LINE | | |
| LOT LINE LIMITED HIGHWAY EASEMEN EXISTING RIGHT OF WAY | | L |
| PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE | - | |
| EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) | | |
| COMBUSTIBLE FLUIDS | | |
| | | |

FILE NAME : S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\SHEETSPLAN\W11642 TITLE SHEET.DW



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LAYOUT

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), COLUMBIA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE ARE THE SAME AS GROUND DISTANCES

E. Friesla

FRIESLAND

STRUCTURE B-11-0181

LAKE COUN

GREEN

T-14-N

T-13-N

COUNTY

COLUMBI

TOWN OF MANCHESTER

LANE 2

OAK RANDOLPH

EF

Friesland

TOWN OF RANDOLPH

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SANDERSON

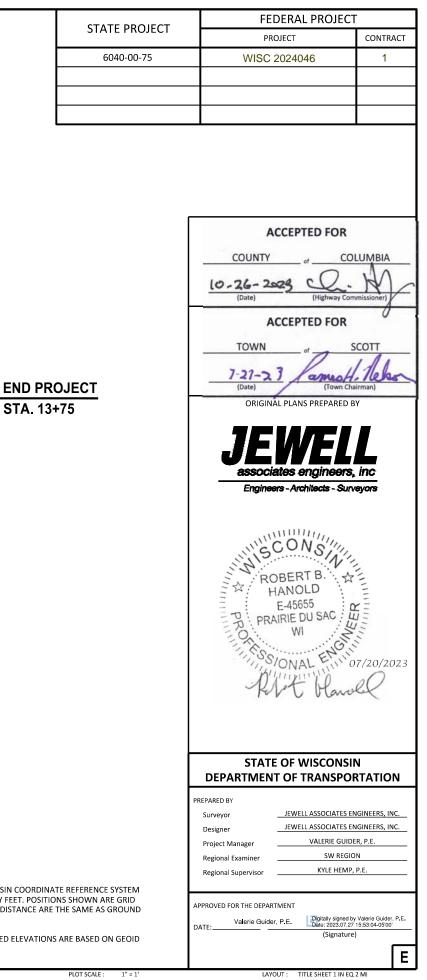
ELEVATION ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID (18).

COUNTY:

CONVENTIONAL SYMBOLS

GAS WATER WOODED OR SHRUB AREA TELEPHONE POLE

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE



GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

UNLESS SHOWN OTHERWISE, DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND MULCHED AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEEDING MIXTURE NO. 60. DO NOT FERTILIZE WETLAND AREAS.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

SILT FENCE AND TURBIDITY BARRIER SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE AND TURBIDITY BARRIER SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO STRUCTURE REMOVAL

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A $2\frac{1}{4}$ -INCH LOWER LAYER AND A $1\frac{3}{4}$ -INCH UPPER LAYER.

APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF ASPHALTIC SURFACE.

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN.

CURVE DATA IS BASED ON THE ARC DEFINITIONS

2

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT OR STOCKPILE MATERIALS BEYOND THE EXISTING STREAM BANK FROM STA. 11+25 - 12+84, RT; STA 11+44 -11+96, LT; STA. 12+02 - 13+15, RT; STA. 12+14 - 13+12, LT.

| CONTACTS | 6 |
|-------------------------------------|--------------------|
| COLUMBIA COUNTY HIGHWAY DEPARTMENT: | DESIGN CONSULTANT: |

| HIGHWAY DEPARTMENT COMMISSIONER | |
|-------------------------------------|--|
| 38 W OLD HIGHWAY 16 | |
| VYOCENA, WI 53969 | |
| ATTN: CHRIS HARDY, P.E. | |
| H: (608) 429-2136 | |
| MAIL: chris.hardy@co.columbia.wi.us | |

TOWN OF SCOTT-TOWN OF SCOTT CHAIRPERSON N8101 HWY 44 PARDEEVILLE, WI 53954 ATTN: JAMES NELSON PH: (608) 429-3703

UTILITIES

ELECTRICITY ADAMS-COLUMBIA ELECTRIC COOPERATIVE ATTN: SHAWN PIETRZAK 401 E. LAKE ST. / P.O. Box 70 FRIENDSHIP, WI 53934 OFFICE: (800) 831-8629 EXT. 323 EMAIL: spietrzak@acecwi.com

COMMUNICATION BRIGHTSPEED ATTN: SCOTT HEINZELMAN 144 N. PEARL ST. BERLIN, WI 54923 OFFICE: (608) 716-5964 CELL: (920) 757-4802 EMAIL: scott.heinzelman@brightspeed.com EMAIL: relocations@brightspeed.com

JEWELL ASSOCIATES ENGINEERS, INC.

EMAIL: robert.hanold@jewellassoc.com

STATE OF WISCONSIN DNR SOUTH CENTRAL REGION HQ

EMAIL: eric.heggelund@wisconsin.gov

3911 FISH HATCHERY ROAD

FITCHBURG, WI 53711

PH: (608) 228-7927

ATTN: ERIC HEGGELUND

560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: ROBERT HANOLD, P.E. PH: (608) 459-6027

CELL: (608) 341-8159

WDNR LIAISON:

| | | LIST C |
|-------------|--------------------------|---------|
| ABUT | Abutment | INV |
| AC | Acre | IP |
| AGG | Aggregate | IRS |
| AH | Ahead | TL |
| < | Angle | JCT |
| ASPH | Asphaltic | LHF |
| AVG | Average | L |
| ADT | Average Daily Traffic | LIN F |
| BAD | Base Aggregate Dense | or LF |
| ВК | Back | LC |
| BF | Back Face | MH |
| BM | Bench Mark | MB |
| BR | Bridge | MLo |
| C or C/L | Center Line | N |
| СС | Center to Center | Y |
| C.E. | Commercial Entrance | OD |
| СТН | County Trunk Highway | PLE |
| CR | Creek | PT |
| CR | Crushed | PC |
| CY or CU YD | Cubic Yard | PI |
| СР | Culvert Pipe | PRC |
| C & G | Curb and Gutter | FIC |
| D | Degree of Curve | PT |
| DHV | Design Hour Volume | POC |
| DIA | Diameter | POT |
| E | East | PVC |
| Х | East Grid Coordinate | PCC |
| ELEC | Electric (al) | |
| EL or ELEV | Elevation | LB |
| ESALS | Equivalent Single Axle | PSI |
| | Loads | P.E. |
| EBS | Excavation Below | R RR |
| FF | Subgrade Face to Face | R |
| F.E. | Field Entrance | RL o |
| F | Fill | RP |
| FG | Finished Grade | RCCI |
| FL or F/L | Flow Line | |
| FT | Foot | REQ |
| FTG | Footing | RES |
| GN | Grid North | RW |
| HT | Height | RT |
| CWT | Hundredweight | RHF |
| HYD | Hydrant | R/W |
| INL | Inlet | RD |
| ID | Inside Diameter | R |
| | | |

| | | HYDROLOGIC SOIL GROUP | | | | | | | | | | |
|---|------------|-----------------------|-------------|------------|------------|-------------|------------|------------|-------------|------------|------------|--------|
| | | / | 4 | | E | 3 | | (| 2 | | [| D |
| | SLOPE | RANG | E (PERCENT) | SLOPE | RANG | E (PERCENT) | SLOPE | RANG | E (PERCENT) | SLOPE | RANG | GE (PE |
| 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& |
| ROW CROPS | .08 .22 | .16 .30 | .22 .38 | .12 .26 | .20 .34 | .27 .44 | .15 .30 | .24 .37 | .33 .50 | .19 .34 | .28 .41 | |
| 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 | |
| SIDE SLOPE TURF | | | .25 .32 | | | .27 .34 | | | .28 .36 | | | |
| PAVEMENT | | | | | | | | | | | | |
| ASPHALT | | | | | | .709 | | | | | | |
| CONCRETE | | | | | | .809 | | | | | | |
| BRICK | | | | | | .708 | | | | | | |
| DRIVES, WALKS | | | | | | .758 | | | | | | |
| ROOFS | | | | | | .759 | | | | | | |
| GRAVEL ROADS, S | | | | | | .406 | 50 | | | | | |
| TOTAL PROJECT AREA= 0.32 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.24 ACRES | | | | | | | | | | | | |

PROJECT NO: 6040-00-75

COUNTY: COLUMBIA

Dial [31] or (800) 242-8511

www.DiggersHotline.com

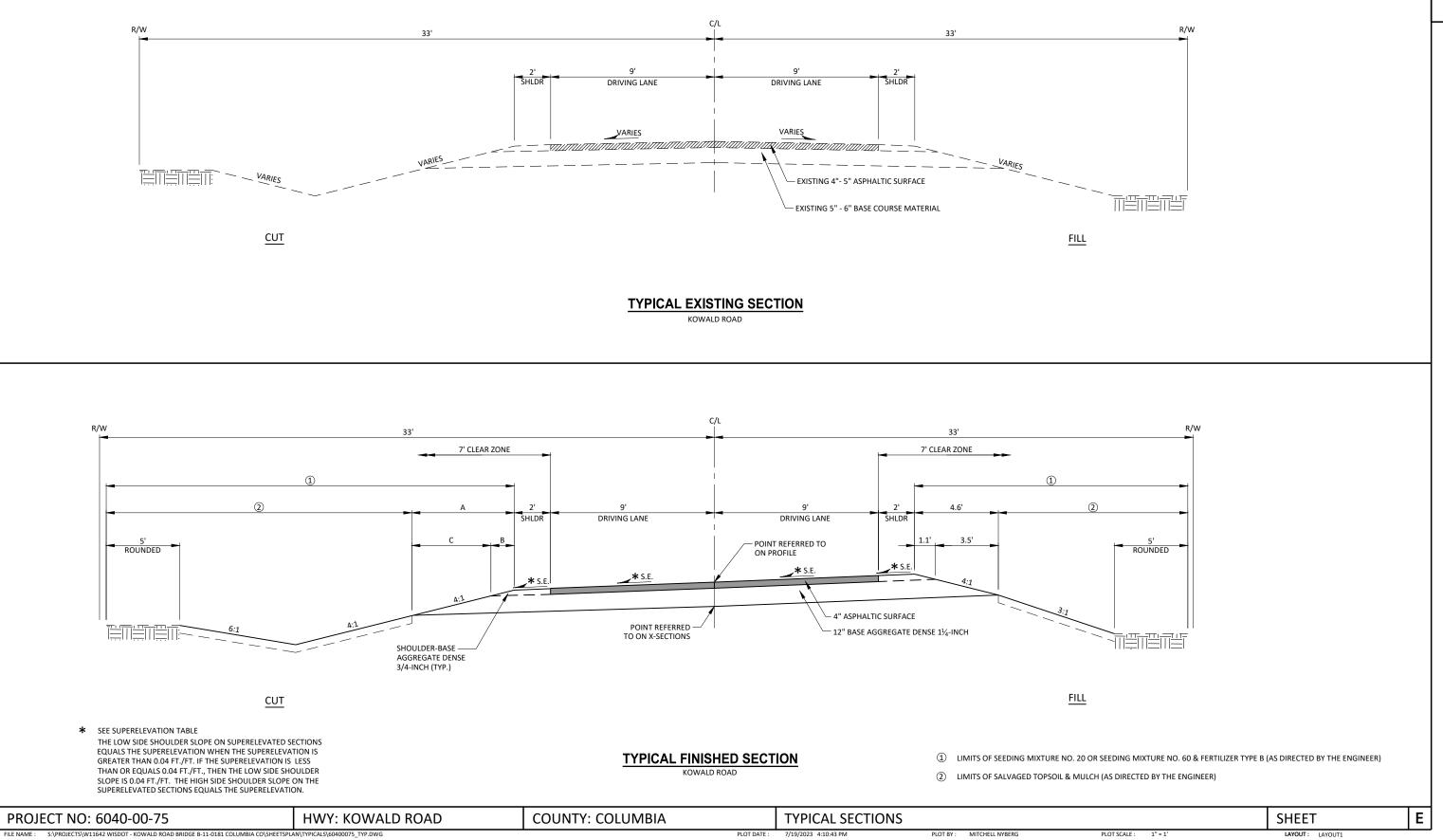
PLOT BY : MITCHELL NYBERG

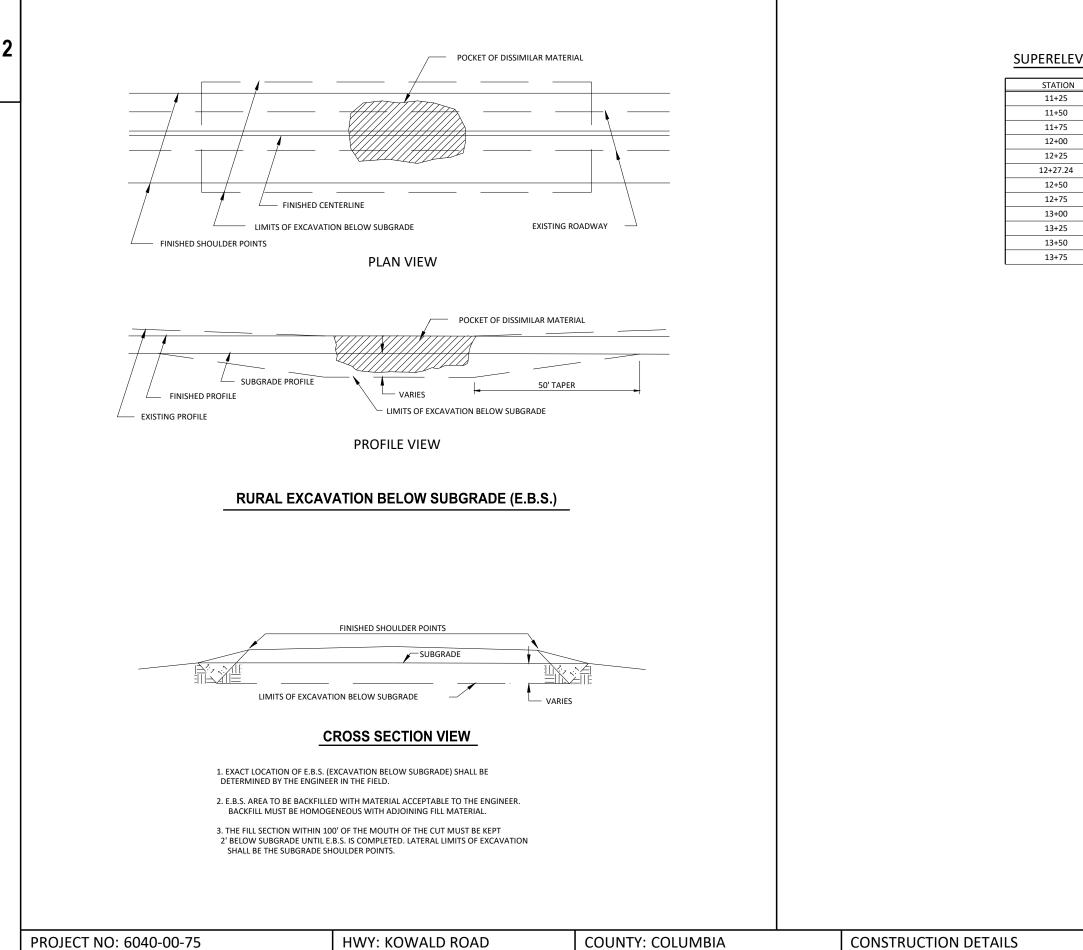


OF STANDARD ABBREVIATIONS

| V | Invert | RDWY | Roadway |
|----------|--------------------------|-------------|--------------------------|
| | Iron Pipe or Pin | SALV | Salvaged |
| 5 | Iron Rod Set | SAN S | Sanitary Sewer |
| | Joint | SEC | Section |
| Т | Junction | SHLDR | Shoulder |
| F | Left-Hand Forward | SHR | Shrinkage |
| | Length of Curve | SW | Sidewalk |
| I FT | Linear Foot | S | South |
| LF | | SQ | Square |
| | Long Chord of Curve | SF or SQ FT | Square Feet |
| H | Manhole | SY or SQ YD | Square Yard |
| 3 | Mailbox | STD | Standard |
| L or M/L | Match Line | SDD | Standard Detail Drawings |
| | North | STH | State Trunk Highways |
| | North Grid Coordinate | STA | Station |
|) | Outside Diameter | SS | Storm Sewer |
| E | Permanent Limited | SG | Subgrade |
| | Easement Point | SE | Superelevation |
| | Point of Curvature | SL or S/L | Survey Line |
| | Point of Intersection | SV | Septic Vent |
| с | Point of Reverse | T | Tangent |
| C | Curvature | TEL | Telephone |
| | Point of Tangency | TEMP | Temporary |
| C | Point On Curve | TI | Temporary Interest |
| T | Point on Tangent | TLE | Temporary Limited |
| Ċ | Polyvinyl Chloride | ILL | Easement |
| c | Portland Cement | t | Ton |
| | Concrete | T or TN | Town |
| | Pound | TRANS | Transition |
| I | Pounds Per Square Inch | TL or T/L | Transit Line |
| | Private Entrance | Т | Trucks (percent of) |
| | Radius | ТҮР | Typical |
| | Railroad Range | UNCL | Unclassified |
| or R/L | Reference Line | UG | Underground Cable |
| ULAL | Reference Point | USH | United States Highway |
| CD | Reinforced Concrete | VAR | Variable |
| CP | Culvert Pipe | V | Velocity or Design Speed |
| QD | Required | VERT | Vertical |
| S | Residence or Residential | VC | Vertical Curve |
| v | Retaining Wall | VOL | Volume |
| | Right | WM | Water Main |
| IF | Right-Hand Forward | WV | |
| W | Right-of-Way | WV | Water Valve West |
| vv | 0 / | WB | Westbound |
|) | Road | YD | Yard |
| | River | טז | Talu |
| | | | |

| REVIATIONS | SHEET | Ε | |
|----------------------|------------------|---|--|
| PLOT SCALE : 1" = 1' | LAYOUT : LAYOUT1 | | |





FILE NAME : S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\SHEETSPLAN\DETAILS\60400075_CONSTRUCTION DETAILS.DWG

PLOT BY : MITCHELL NYBERG

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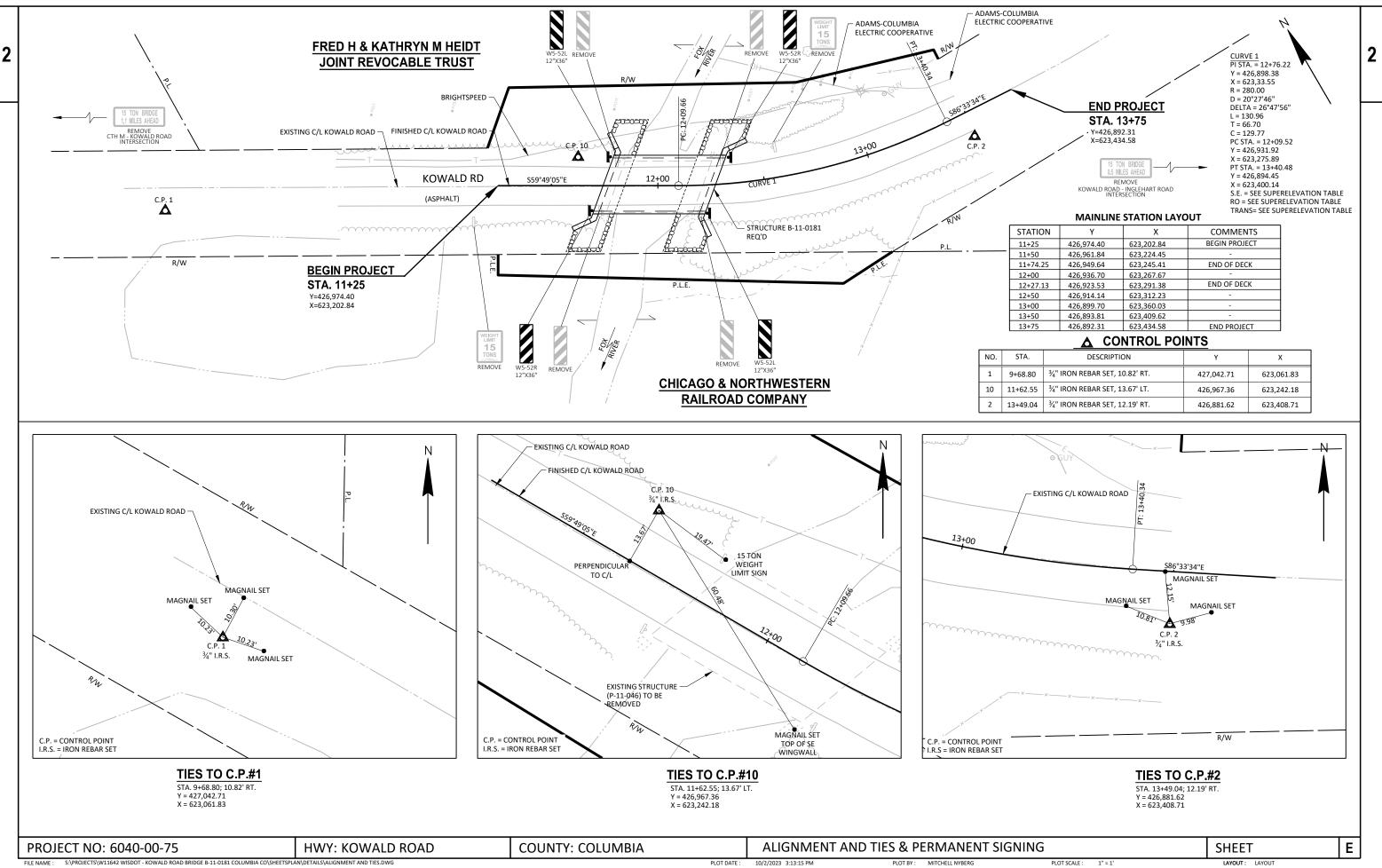
PLOT DATE :

SUPERELEVATION MAINLINE - KOWALD ROAD

| LEFT(%) | RIGHT(%) | A (FT) | B (FT) | C (FT) |
|-------------------|----------|--------|--------|--------|
| MATCH EXISTING | MATCH | | | |
| 2.0 | 2.0 | 5.63 | 1.28 | 4.35 |
| 2.0 | 2.0 | 5.63 | 1.28 | 4.35 |
| 2.0 | 2.0 | | | |
| 2.0 | 2.0 | | | |
| 2.0 | 2.0 | | | |
| 2.0 | 0.7 | 5.63 | 1.28 | 4.35 |
| 2.0 | 0.8 | 5.63 | 1.28 | 4.35 |
| 2.3 | 2.3 | 5.71 | 1.31 | 4.40 |
| 3.8 | 2.7 | 6.25 | 1.54 | 4.71 |
| 5.2 | 1.2 | 6.73 | 1.69 | 5.04 |
| MATCH EXISTING | MATCH | | | |

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Estimate Of Quantities

| 201.0205 Grubbing STA 3.000 3.000 203.0260 Removing Structure Over Waterway Minimal Debris (structure) 01. P-11-46 EACH 1.000 1.000 206.0101 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 1.000 206.0101 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 1.000 213.0100 Back Margengeb Denses 3/4-Inch TON 500.000 500.000 305.0110 Base Aggregate Dense 3/1-Inch TON 170.000 470.000 455.0105 Tack Coat GAL 25.000 220.000 502.2010 Concrete Masonry Bridges CY 220.000 200.000 502.2010 Concrete Masonry Bridges CY 201.000 201.000 502.2010 Concrete Masonry Bridges CY 200.000 245.6000 245.6000 505.0600 Bar Steel Reinforcement HS Structures LB 24.560.000 45.800.000 54.500.00 54.500.00 54.500.00 54.500.00 54.500.00 54.500.00 54.500.00 | | | | | | 6040-00-75 | |
|---|--------------|----------|---|------|-----------|------------|--|
| 203 0260 Removing Structure Over Waterway Minimal Debris (structure) 01. P-11-46 EACH 1.000 1.000 205 0100 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 200.000 208 1001 Borcom CY 220.000 220.000 210 1500 Backfill Structure Type A TON 500.000 200.000 213 1010 Finishing Roadway (project) 01. 6040-00-75 EACH 1.000 1.000 305 0110 Base Aggregate Denes 3/4-inch TON 470.000 470.000 305 0110 Base Aggregate Denes 3/4-inch TON 470.000 240.000 502 1000 Concrete Masony Bridges CY 240.000 240.000 505 0400 Bar Steel Reinforcement HS Structures LB 24,560.000 24,560.000 513 4061 Railing Tubuitar Type M LF 450.000 24,560.000 516 0500 Ruberized Membrane Waterprofing SY 12.000 120.000 516 0500 Ruberized Membrane Waterprofing SY 12.000.00 150.000 618 0100 <th>Line</th> <th>Item</th> <th>Item Description</th> <th>Unit</th> <th>Total</th> <th>Qty</th> <th></th> | Line | Item | Item Description | Unit | Total | Qty | |
| 205 0100 Excavation Common CY 2000.000 2000.000 205 1001 Excavation for Structures Bridges (structure) 01. B-11-0181 CY 220.000 220.000 210 1000 Backfill Structure Type A TON 500.000 500.000 213 0100 Base Aggregate Dense 3/4-Inch TON 30.000 30.000 305 0112 Base Aggregate Dense 3/4-Inch TON 470.000 470.000 455 0056 Tack Coat GAL 25.000 25.000 505 2000 Protoctive Surface Treatment SY 24.000 24.000 505 0400 Bar Steel Reinforcement HS Cated Structures LB 4.500.000 24.560.000 505 0400 Bar Steel Reinforcement HS Cated Structures LB 24.560.000 19.000 513 4061 Railing Tubular Type M LF 150.000 19.000 19.000 516 0401 Pine Underdrain Wapped 6-Inch LF 150.000 150.000 618 1000 Mahutenance MGAL 8.000 8.000 627 0200 Mulching SY< | 002 | 201.0205 | Grubbing | STA | 3.000 | 3.000 | |
| 208 1001 Excavation for Structures Bridges (structure) 01. B-11-0181 EACH 1.000 1.000 208 1010 Backill Structure Type A TON 500.000 500.000 210 1500 Backill Structure Type A TON 500.000 500.000 213 0100 Finishing Roadway (project) 01. 6040-00-75 EACH 1.000 1.000 305 0110 Base Aggregate Denes 41/4-Inch TON 470.000 470.000 455.0050 Tack Coat GAL 22.000 240.000 502 0100 Concrete Masonry Bridges CY 240.000 240.000 505 0600 Bar Steel Reinforcement HS Cructures LB 2.4500.00 2450.000 516 0600 Rubberized Membrane Waterproofing SY 12.000 12.000 516 0600 Ripter Heavy CY 150.000 150.000 618 02406 Pile Underdrain Wrapped 6-Inch LF 150.000 150.000 618 0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 628 1100 Maintenance and Rep | 004 | 203.0260 | Removing Structure Over Waterway Minimal Debris (structure) 01. P-11-46 | EACH | 1.000 | 1.000 | |
| 208.0100 Borrow CY 220.000 220.000 210.1500 Backfill Structure Type A TON 500.000 1.000 305.0110 Base Aggregate Dense 3/4-Inch TON 30.000 30.000 305.0110 Base Aggregate Dense 1/4-Inch TON 470.000 470.000 455.0105 Tack Coat GAL 25.000 25.000 502.2100 Concrete Masony Bridges CY 201.000 201.000 502.3200 Bard Stell Reinforcement HS Structures LB 4.590.000 4.590.000 505.0400 Bard Stell Reinforcement HS Structures LB 2.450.000 456.000 513.4061 Rating Tubular Type M LF 109.000 109.000 516.0500 Rubberized Membrane Waterproofing SY 12.000 150.000 618.1010 Maintenance and Repair of Haul Roads (project) 01.6040-07.75 EACH 1.000 618.1010 Maintenance and Repair of Haul Roads (project) 01.6040-07.75 EACH 1.000 618.1010 Maintenance and Repair of Haul Roads (project) 01.6040-07.75 <td< td=""><td>0006</td><td>205.0100</td><td>Excavation Common</td><td>CY</td><td>200.000</td><td>200.000</td><td></td></td<> | 0006 | 205.0100 | Excavation Common | CY | 200.000 | 200.000 | |
| 210.1500 Backfill Structure Type A TON 500.000 500.000 213.0100 Base Aggregate Dense 3/4-inch TON 30.000 30.000 305.0120 Base Aggregate Dense 1 /4-inch TON 470.000 470.000 455.0050 Tack Coat GAL 25.000 25.000 455.0050 Tack Coat GAL 25.000 201.000 502.0100 Concreter Masonry Bridges CY 201.000 24.000 505.0400 Bar Steel Reinforcement HS Structures LB 24.560.000 24.560.000 516.0500 Bar Steel Reinforcement HS Coated Structures LF 19.000 19.000 516.0500 Bar Steel Reinforcement HS Coated Structures LF 45.00.000 45.00.000 616.0500 Ribrag Heavy CY 12.000 12.0000 15.00.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 618.0100 <td>8000</td> <td>206.1001</td> <td>Excavation for Structures Bridges (structure) 01. B-11-0181</td> <td>EACH</td> <td>1.000</td> <td>1.000</td> <td></td> | 8000 | 206.1001 | Excavation for Structures Bridges (structure) 01. B-11-0181 | EACH | 1.000 | 1.000 | |
| 121.0100 Finishing Roadway (project) 01. 604-00-75 EACH 1.000 300.000 305.0110 Base Aggregate Dense 3/4-Inch TON 400.000 30.000 305.0120 Base Aggregate Dense 1/14-Inch TON 470.000 470.000 455.0105 Tack Coat GAL 25.000 245.000 25.000 505.0400 Asphaliti Surface TON 110.000 240.000 240.000 505.0400 Bar Steel Reinforcement HS Cructures LB 4.590.000 24.550.000 513.4061 Railing Tubular Type M LF 109.000 24.550.000 515.02100 Ruberized Membrane Waterprooring SY 12.000 12.000 516.0200 Ruberized Membrane Waterprooring LF 450.000 150.000 616.0400 Pipe Linderiain Wrapped 6-Inch LF 150.00 150.000 616.0400 Vater MGAL 8.000 8.000 625.0500 Sakaged Topsoil SY 1.200.000 1.200.000 624.1000 Water MGAL <td< td=""><td>010</td><td>208.0100</td><td>Borrow</td><td>CY</td><td>220.000</td><td>220.000</td><td></td></td<> | 010 | 208.0100 | Borrow | CY | 220.000 | 220.000 | |
| 305.0110 Base Aggregate Dense 1/4-Inch TON 470.000 470.000 305.0120 Base Aggregate Dense 1 1/4-Inch TON 470.000 470.000 455.0605 Tack Coat GAL 25.000 25.000 465.0105 Asphaltic Surface CY 201.000 201.000 502.0100 Concrete Masonny Bridges CY 201.000 24.560.000 505.0400 Bar Steel Reinforcement HS Structures LB 4.560.000 4.590.000 513.4061 Railing Tubular Type M LF 109.000 109.000 606.0200 Ripra Heavy CY 12.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Skayaged Topsoil SY 1.200.000 1.200.000 624.1000 Water MGAL 8.000 8.000 | 0012 | 210.1500 | Backfill Structure Type A | TON | 500.000 | 500.000 | |
| 305.0120 Base Àgiregate Dense 1 1/4-Inch FON 470.000 470.000 455.0660 Tack Coat GAL 250.000 250.000 465.0105 Asphalic Surface TON 110.000 110.000 502.2000 Concrete Masonry Bridges CY 2201.000 2201.000 505.0400 Bar Steel Reinforcement HS Structures LB 4.590.000 24.560.000 513.4061 Railing Tubular Type M LF 109.000 109.000 505.0400 Bar Steel Reinforcement HS Coated Structures LF 450.000 120.000 505.0401 Rinderdam Wrapped 6-Inch LF 150.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 624.0100 Waite Fance Maintenance SY 1.200.000 1.200.000 624.1000 Multing SY 1.200.000 1.200.000 624.1000 Multing SY 1.200.000 1.200.000 624.1000 Multing Maintenance SY 1.200.000 | 0014 | 213.0100 | Finishing Roadway (project) 01. 6040-00-75 | EACH | 1.000 | 1.000 | |
| 465.0005 Tack Coar GAL 25.000 465.0105 Asphaltic Surface TON 110.000 502.0100 Concrete Masonry Bridges CY 201.000 201.000 502.3200 Protective Surface Treatment SY 240.000 240.000 505.0600 Bar Steel Reinforcement HS Structures LB 4.560.000 24.560.000 513.4061 Railing Tubular Type M LF 109.000 1510.000 516.0600 Ruberized Membrane Waterproofing SY 12.000 12.000 505.0140 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450.000 450.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 624.0100 Vater SY 1.200.000 1.200.000 12.200.000 1.200.000 625.0500 Salvaged Topsoil SY 1.200.000 1.200.000 628.1520 Silt Fence SY 1.200.000< | 0016 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 30.000 | 30.000 | |
| 4465.0105 Asphaltic Surface TON 110.000 110.000 502.0100 Concrete Masonry Bridges CY 201.000 201.000 505.0400 Bar Steel Reinforcement HS Structures LB 4,590.000 24,650.000 513.4061 Railing Tubular Type M LF 109.000 24,650.000 513.4061 Railing Tubular Type M LF 109.000 116.000 560.2100 Rubberizzed Membrane Waterproofing SY 12.000 12.000 660.0300 Riprap Heavy KJ 0.25-Inch LF 450.000 450.000 618.0100 Maintenance and Repart of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 618.0100 Maintenance and Repart of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 622.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 628.1502 Silt Fence SY 1.200.000 1.200.000 628.1502 | 0018 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 470.000 | 470.000 | |
| 502.0100 Concrete Masony Bridges CY 201.000 2021000 502.3200 Protective Surface Treatment SY 240.000 24.000 505.0400 Bar Steel Reinforcement HS Structures LB 4.590.000 24.560.000 505.0600 Bar Steel Reinforcement HS Cated Structures LB 24.560.000 24.560.000 513.0610 Rubberized Membrane Waterproofing SY 12.000 12.000 505.0100 Riprap Heavy CY 150.000 150.000 612.0406 Pipe Underdrain Wrapped 6-Inch LF 150.000 150.000 613.0100 Mobilization EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 628.1520 Salvaged Topsoil SY 1.200.000 1.220.000 628.1520 Silt Fence Maintenance LF 610.000 610.000 628.1520 Silt Fence Maintenance LF 610.000 628.1500 628.1520 Silt Fence Maintenance LF 610.000 620.000 | 0020 | 455.0605 | Tack Coat | GAL | 25.000 | 25.000 | |
| 502.3200 Protective Surface Treatment SY 240.000 240.000 505.0400 Bar Steel Reinforcement HS Cated Structures LB 24,560.000 24,560.000 24,560.000 510.500 Rubert HS Cated Structures LF 199.000 199.000 513.0601 Railing Tubular Type M LF 199.000 190.000 150.000 160.000 620.100 Water MGAL 8.00 8.000 620.000 120.000 1200.000 120.000 <td>0022</td> <td>465.0105</td> <td>Asphaltic Surface</td> <td>TON</td> <td>110.000</td> <td>110.000</td> <td></td> | 0022 | 465.0105 | Asphaltic Surface | TON | 110.000 | 110.000 | |
| 505.0400 Bar Steel Reinforcement HS Structures LB 4,590.000 4,590.000 503.0600 Bar Steel Reinforcement HS Coated Structures LB 24,660.000 124,660.000 513.0500 Rubberized Membrane Waterproofing SY 12,000 120,000 550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450,000 450,000 606.0300 Riprap Heavy CY 150,000 150,000 150,000 618.0100 Maintenace and Repair of Haul Roads (project) 01.604:00-075 EACH 1,000 1,000 624.0100 Water MGAL 8,000 8,000 620,000 1,200.000 1,200.000 625.0500 Salvaged Topsoil SY 1,200.000 1,200.000 1,200.000 1,200.000 1,200.000 1,200.000 1,220.000 1,200.000 1,200.000 1,200.000 1,220.000 1,200.000 1,200.000 1,220.000 1,200.000 1,220.000 1,220.000 1,220.000 1,220.000 1,220.000 1,220.000 1,220.000 1,220.000 1,220.000 1,220.000 <td< td=""><td>024</td><td>502.0100</td><td>Concrete Masonry Bridges</td><td>CY</td><td>201.000</td><td>201.000</td><td></td></td<> | 024 | 502.0100 | Concrete Masonry Bridges | CY | 201.000 | 201.000 | |
| 505.060 Bar Steel Reinforcement HS Coated Structures LB 24,560.000 24,560.000 513.4061 Railing Tubular Type M LF 109.000 109.000 550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450.000 450.000 660.0300 Riprap Heavy CY 150.000 150.000 611.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 613.0100 Mointenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.220.000 1 | 0026 | 502.3200 | Protective Surface Treatment | SY | 240.000 | 240.000 | |
| 505.060 Bar Steel Reinforcement HS Coated Structures LB 24,560.000 24,560.000 513.4061 Railing Tubular Type M LF 109.000 109.000 550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450.000 450.000 660.0300 Riprap Heavy CY 150.000 150.000 611.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 613.0100 Mointenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.200.000 1.220.000 1 | 0028 | 505.0400 | Bar Steel Reinforcement HS Structures | LB | 4,590.000 | 4,590.000 | |
| \$13.4061 Railing Tubular Type M LF 199.000 109.000 \$16.0500 Rubberized Membrane Waterprofing SY 12.000 12.000 \$502.104 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450.000 450.000 606.0300 Riprap Heavy CY 150.000 150.000 613.0100 Maintenance and Repair of Haul Roads (project) 01. 6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 1.200.000 1.200.000 624.0100 Water MGAL 8.000 1.200.000 1.200.000 628.1520 Salt Fence Maintenance LF 1.200.000 1.200.000 628.1520 Silt Fence Maintenance LF 1.200.000 1.200.000 628.1500 1.200.000 1.200.000 628.1500 1.200.000 628.1905 Mubi | 0030 | 505.0600 | Bar Steel Reinforcement HS Coated Structures | | | | |
| 516.0500 Rubberized Membrane Waterproofing SY 12.000 12.000 550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450.000 450.000 612.0406 Pipe Underdrain Wrapped 6-Inch LF 150.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01.6040-00-75 EACH 1.000 1.000 619.1000 Mobilization EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil SY 1,200.000 1,200.000 628.1504 Silf Fence Maintenance LF 1,220.000 628.1505 Solit Fence Maintenance LF 1,220.000 1,220.000 628.1505 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Erosion Control EACH 3.000 130.000 630.0120 Seeding Mixture No. 20 LB 6.000 6.000 630.0120 Seeding Mixture No. 20 LB 4.000 4.000 | 0032 | | Railing Tubular Type M | | | | |
| 550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch LF 450.000 450.000 606.0300 Riprap Heavy CY 150.000 150.000 612.0406 Pipe Underdrain Wrapped 6-Inch LF 150.000 150.000 618.0100 Mointenance and Repair of Haul Roads (project) 01. 6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil SY 1.200.000 1.200.000 628.1504 Silt Fence Fence 610.000 628.1504 628.1504 Silt Fence Maintenance LF 612.000 1.220.000 628.1505 Mobilizations Erosion Control EACH 2.000 2.000 628.1504 Turbidity Barriers SY 135.000 135.000 628.005 Turbidity Barriers SY 135.000 130.000 630.0120 Seeding Mixture No. 20 LB 4.000 4.000 630.0200 Seeding Mixture No. 60 SF 12.000 1000 | 0034 | | • • | | | | |
| 606.0300 Riprop Heavy CY 150.000 150.000 612.0406 Pipe Underdrain Wrapped 6-Inch LF 150.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01. 6040-00-75 EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil SY 1.200.000 1.200.000 625.0500 Salvaged Topsoil SY 1.200.000 1.200.000 628.1504 Sill Fence LF 610.000 610.000 628.1504 Sill Fence Maintenance LF 1.220.000 1.200.000 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Erosion Control EACH 2.000 2.000 628.005 Turbidity Barriers SY 135.000 135.000 630.0120 Seeding Mixture No. 20 LB 6.000 6.000 630.0200 Seeding Mixture No. 60 LB 6.000 6.000 630.030 | 0036 | | | | | | |
| 612.0406 Pipe Underdrain Wrapped 6-Inch LF 150.000 150.000 618.0100 Maintenance and Repair of Haul Roads (project) 01. 6040-00-75 EACH 1.000 1.000 649.1000 Water EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil SY 1.200.000 1.200.000 627.0200 Mulching SY 1.200.000 1.200.000 628.1504 Sill Fence LF 610.000 628.1504 628.1505 Mobilizations Erosion Control EACH 2.000 1.220.000 628.1605 Turbidity Barriers SY 135.000 135.000 630.0100 Seeding Mixture No. 20 LB 31.000 33.000 630.0100 Seeding Mixture No. 60 LB 4.000 4.000 630.0200 Seeding Tomporary LB 4.000 4.000 630.0200 Seeding Mixture No. 60 LB 3.000 630.020 630.0500 Seeding Bo | 0038 | | - | | | | |
| 618.0100 Maintenance and Repair of Haul Roads (project) 01. 6040-00-75 EACH 1.000 1.000 619.1000 Mobilization EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil SY 1.200.000 1.200.000 627.0200 Mulching SY 1.200.000 1.220.000 628.1520 Silt Fence Maintenance LF 610.000 610.000 628.1905 Mobilizations Erosion Control EACH 3.000 2.000 628.005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 60 LB 40.000 40.000 630.0200 Seeding Temporary LB 40.000 40.000 630.0200 Seeding Borrow Pit SF 12.000 1.200.000 630.0200 Seeding Mixture No. 12-FT EACH 4.000 4.000 630.0300 Seeding | 0040 | | | | | | |
| 619.1000 Mobilization EACH 1.000 1.000 624.0100 Water MGAL 8.000 8.000 625.050 Salvaged Topsoil SY 1.200.000 1.200.000 627.0200 Mulching SY 1.200.000 1.200.000 628.1504 Silt Fence LF 610.000 610.000 628.1505 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Erosion Control EACH 2.000 2.000 628.6005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0200 Seeding Temporary LB 4.000 4.000 630.0300 Seeding Mixture No. 60 LB 4.000 4.000 630.0500 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seeding Suports EACH 5.000 <td>0042</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | 0042 | | | | | | |
| 624.0100 Water MGAL 8.000 8.000 625.0500 Salvaged Topsoil SY 1,200.000 1,200.000 627.0200 Mulching SY 1,200.000 1,200.000 628.1504 Silt Fence Fence 610.000 661.000 628.1520 Silt Fence Maintenance LF 1,220.000 1,220.000 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1905 Mubilizations Erosion Control EACH 2.000 1.35.000 628.005 Turbidity Barriers SY 135.000 135.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0200 Seeding Mixture No. 60 LB 6.000 6.000 630.0300 Seeding Mixture No. 60 LB 4.000 4.000 630.0300 Seeding Mixture No. 60 LB 4.000 4.000 630.0300 Seeding Mixture No. 60 LB 4.000 4.000 633.0402 Tentro NP L | 0044 | | | | | | |
| 625.0500 Salvaged Topsoil SY 1,200.000 1,200.000 627.0200 Mulching SY 1,200.000 1,200.000 628.1500 Silt Fence Maintenance LF 610.000 610.000 628.1520 Silt Fence Maintenance LF 1,220.000 1,220.000 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1905 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0120 Seeding Itmure No. 60 LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 40.000 40.000 633.5100 Markers ROW EACH 5.000 5.000 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 8.000 8.000 633.5100 Removing Small Sign Supp | 0046 | | | | | | |
| 627.0200 Mulching SY 1,200.000 1,200.000 628.1504 Silt Fence LF 610.000 610.000 628.1520 Silt Fence Maintenance LF 1,200.000 628.000 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Ernergency Erosion Control EACH 2.000 2.000 628.6005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 61.000 60.000 630.0200 Seeding Mixture No. 60 LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 4.000 40.000 630.0300 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 4.000 4.000 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 637.2230 Signs Type II Reflective F | 0048 | | | | | | |
| 628.1504 Silt Fence LF 610.000 610.000 628.1520 Silt Fence Maintenance LF 1,220.000 1,220.000 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 628.6005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 630.000 630.0120 Seeding Temporary LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 40.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 50.000 633.6202 Removing Signs Type II EACH 4.000 4.000 638.2602 Removing Small Sign Supports EACH 8.000 8.000 643.0420 Traffic Control Bar | 0050 | | | | | | |
| 628.1520 Silt Fence Maintenance LF 1,220.000 1,220.000 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 628.6005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0200 Seeding Temporary LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 5.000 638.4021 Posts Wood 4x6-Inch X 12-FT EACH 8.000 8.000 638.2020 Removing Signs Type II EACH 8.000 8.000 643.0420 Traffic Control Barricades Type III DAY 1,210.000 1,210.000 643.0900 | 0052 | | - | | | | |
| 628.1905 Mobilizations Erosion Control EACH 3.000 3.000 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 628.6005 Turbidty Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0200 Seeding Mixture No. 60 LB 4.000 40.000 630.0200 Seeding Borrow Pit LB 4.000 4.000 630.0300 Seeding Mixture No. 20 EACH 5.000 36.000 630.0500 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 4.000 4.000 633.6202 Removing Signs Type II EACH 8.000 8.000 638.2602 Removing Signs Type II EACH 8.000 8.000 643.0420 Traffic Control Barricades | 0054 | | | | | | |
| 628.1910 Mobilizations Emergency Erosion Control EACH 2.000 2.000 628.6005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0120 Seeding Mixture No. 60 LB 6.000 6.000 630.0200 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 5.000 634.612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 637.2230 Signs Type II Reflective F SF 12.000 12.000 638.2602 Removing Small Sign Supports EACH 8.000 8.000 643.0420 Traffic Control Barricades Type III DAY 1,880.000 1,210.000 643.0420 Traffic Control Signs DAY 1,880.000 1,210.000 643.0420 | 0056 | | | | | | |
| 628.6005 Turbidity Barriers SY 135.000 135.000 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0120 Seeding Mixture No. 60 LB 6.000 6.000 630.0200 Seeding Borrow Pit LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 5.000 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 638.2602 Removing Signs Type II EACH 8.000 8.000 638.2602 Removing Small Sign Supports EACH 8.000 8.000 642.5001 Field Office Type B EACH 1.000 1.000 643.0420 Traffic Control Barricades Type III DAY 1,210.000 1,210.000 643.0705 Traffic Control Signs | 0058 | | | | | | |
| 629.0210 Fertilizer Type B CWT 1.000 1.000 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0160 Seeding Mixture No. 60 LB 6.000 6.000 630.0200 Seeding Temporary LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 5.000 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 637.2230 Signs Type II Reflective F SF 12.000 12.000 638.2602 Removing Small Sign Supports EACH 8.000 8.000 638.3000 Removing Small Sign Supports EACH 1.000 1.000 643.0420 Traffic Control Barricades Type III DAY 1,210.000 1,210.000 643.0705 Traffic Control Warning Lights Type A DAY 1,880.000 1,880.000 643.0900 <td>0060</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | 0060 | | | | | | |
| 630.0120 Seeding Mixture No. 20 LB 31.000 31.000 630.0160 Seeding Mixture No. 60 LB 6.000 6.000 630.0200 Seeding Temporary LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 5.000 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 637.2230 Signs Type II Reflective F SF 12.000 12.000 638.2602 Removing Signal Sign Supports EACH 8.000 8.000 638.3000 Removing Small Sign Supports EACH 1.000 1.000 643.0420 Traffic Control Barricades Type III DAY 1,210.000 1,210.000 643.0900 Traffic Control Warning Lights Type A DAY 1,880.000 1,880.000 643.0900 Traffic Control Signs DAY 1,80.000 1,000 643 | 0062 | | • | | | | |
| 630.0160 Seeding Mixture No. 60 LB 6.000 6.000 630.0200 Seeding Temporary LB 40.000 40.000 630.0300 Seeding Borrow Pit LB 4.000 4.000 630.0500 Seed Water MGAL 36.000 36.000 633.5100 Markers ROW EACH 5.000 5.000 634.0612 Posts Wood 4x6-Inch X 12-FT EACH 4.000 4.000 637.2230 Signs Type II Reflective F SF 12.000 12.000 638.2602 Removing Signs Type II EACH 8.000 8.000 638.3000 Removing Small Sign Supports EACH 8.000 8.000 643.0420 Traffic Control Barricades Type III DAY 1,210.000 1,210.000 643.0420 Traffic Control Warning Lights Type A DAY 1,800.000 1,880.000 643.0420 Traffic Control Signs DAY 1,800.000 1,880.000 643.0420 Traffic Control Warning Lights Type A DAY 940.000 940.000 | 0064 | | | | | | |
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| 645.0120 Geotextile Type HR 01. B-11-0181 SY 250.000 250.000 650.4500 Construction Staking Subgrade LF 197.000 197.000 | 0092 | | | | | | |
| 650.4500 Construction Staking Subgrade LF 197.000 197.000 | 0094 | | | | | | |
| 0 0 | 0096 | | | | | | |
| 650.5000 Construction Staking Base LF 197.000 197.000 | 0098 | | | | | | |
| | 0100 | 650.5000 | Construction Staking Base | LF | 197.000 | 197.000 | |

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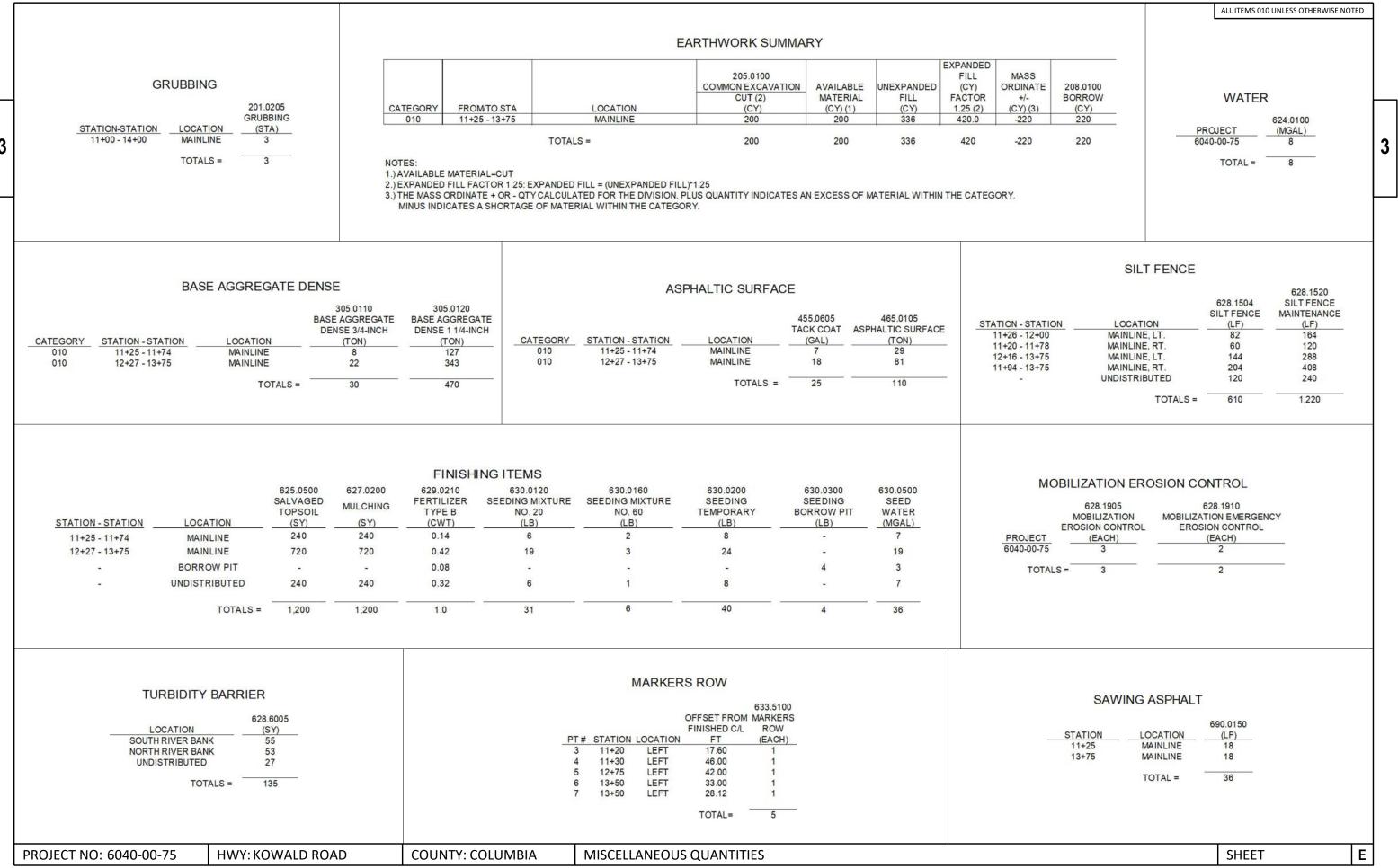
Page 1

Estimate Of Quantities

| | | | | | 6040-00-75 |
|------|------------|--|------|-----------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0102 | 650.6501 | Construction Staking Structure Layout (structure) 01. B-11-0181 | EACH | 1.000 | 1.000 |
| 0104 | 650.9911 | Construction Staking Supplemental Control (project) 01. 6040-00-75 | EACH | 1.000 | 1.000 |
| 0106 | 650.9920 | Construction Staking Slope Stakes | LF | 197.000 | 197.000 |
| 0108 | 690.0150 | Sawing Asphalt | LF | 36.000 | 36.000 |
| 0110 | 715.0502 | Incentive Strength Concrete Structures | DOL | 1,206.000 | 1,206.000 |
| 0112 | 999.2005.S | Maintaining Bird Deterrent System (station) 01. 12+00 | EACH | 1.000 | 1.000 |
| 0114 | SPV.0090 | Special 01. Flashing Stainless Steel | LF | 95.000 | 95.000 |

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Page 2



PLOT DATE : 11/2/2023 PLOT TIME : 12:06:46 PM

PERMANENT SIGNING

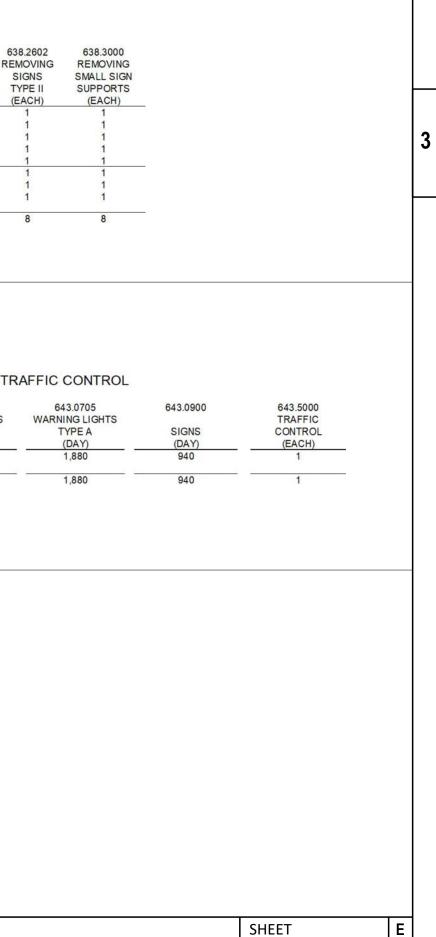
| APPROX. | -8 | | SIGN | | ORDER | SIGN | 634.0612 POSTS WOOD 4X6- INCH X 12-FT | 637.2230 SIGNS TYPE II REFLECTIVE F | 638.260 REMOVIN SIGNS TYPE II |
|---------------|----------|-----------------|--------|-----------------------------|--------------------|----------|--|--|--|
| STATION | POSITION | LOCATION | CODE | SIGN DESCRIPTION | LINES | SIZE | (EACH) | (SF) | (EACH) |
| 03 - 0 | RIGHT | AT CTH H | R12-55 | XX TON BRDGE XX MILES AHEAD | 15 TON / 1.1 MILES | 48X18 | · | | 1 |
| 11+14 | LEFT | MAINLINE | R12-1 | BRIDGE WEIGHT LIMIT | 15 TONS | 24X30 | - | | 1 |
| 11+69 | LEFT | MAINLINE | W5-52R | BRIDGE HASH MARKS | | 12X36 | 1 | 3.00 | 1 |
| 11+78 | RIGHT | MAINLINE | W5-52L | BRIDGE HASH MARKS | | 12X36 | 1 | 3.00 | 1 |
| 12+22 | RIGHT | MAINLINE | W5-52L | BRIDGE HASH MARKS | | 12X36 | 1 | 3.00 | 1 |
| 12+34 | RIGHT | MAINLINE | W5-52R | BRIDGE HASH MARKS | | 12X36 | 1 | 3.00 | 1 |
| 12+56 | LEFT | MAINLINE | R12-1 | BRIDGE WEIGHT LIMIT | 15 TONS | 24X30 | _ | | 1 |
| - | RIGHT | AT INGLEHART RD | R12-55 | XX TON BRDGE XX MILES AHEAD | 15 TON / 0.5 MILES | 48X18 | — | . | 1 |
| | | | | | | TOTALS = | 4 | 12.00 | 8 |

TOTALS = 4 12.00

| | | | | KING | FION STAI | CONSTRUCT | | |
|--|----------|----------------------------|-----------------------------------|---|----------------------------|--------------------------------|-------------|------------------|
| TRAFFIC | | 650.9920 | 650.9911 SUPPLEMENTAL | *650.6501 | | | | |
| 643.0420 BARRICADES WAR TYPE III | | SLOPES STAKES (L.F.) | CONTROL (6040-00-75) (EACH) | STRUCTURE LAYOUT (B-11-0181) (EACH) | 650.5000 BASE (L.F.) | 650.4500 SUBGRADE (L.F.) | LOCATION | STATION -STATION |
| | LOCATION | 49 | (EACH) | (EACH) | 49 | 49 | MAINLINE | 11+25 - 11+74 |
| 1,210 | PROJECT | 148 | 1 | - | 148 | 148 | MAINLINE | 12+27 - 13+75 |
| 07410 | | - | 1 | 1 | - | - | PROJECT | 6040-00-75 |
| OTALS = 1,210 | TOTALS = | 197 | 1 | 1 | 197 | 197 | TOTAL = | |
| | | | | | | | ATEGORY 020 | *0 |

| PROJECT NO: 6040-00-75 HWY: KOWALD ROAD COUNTY: COLUMBIA MISCELLANEOUS QUANTITIES | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

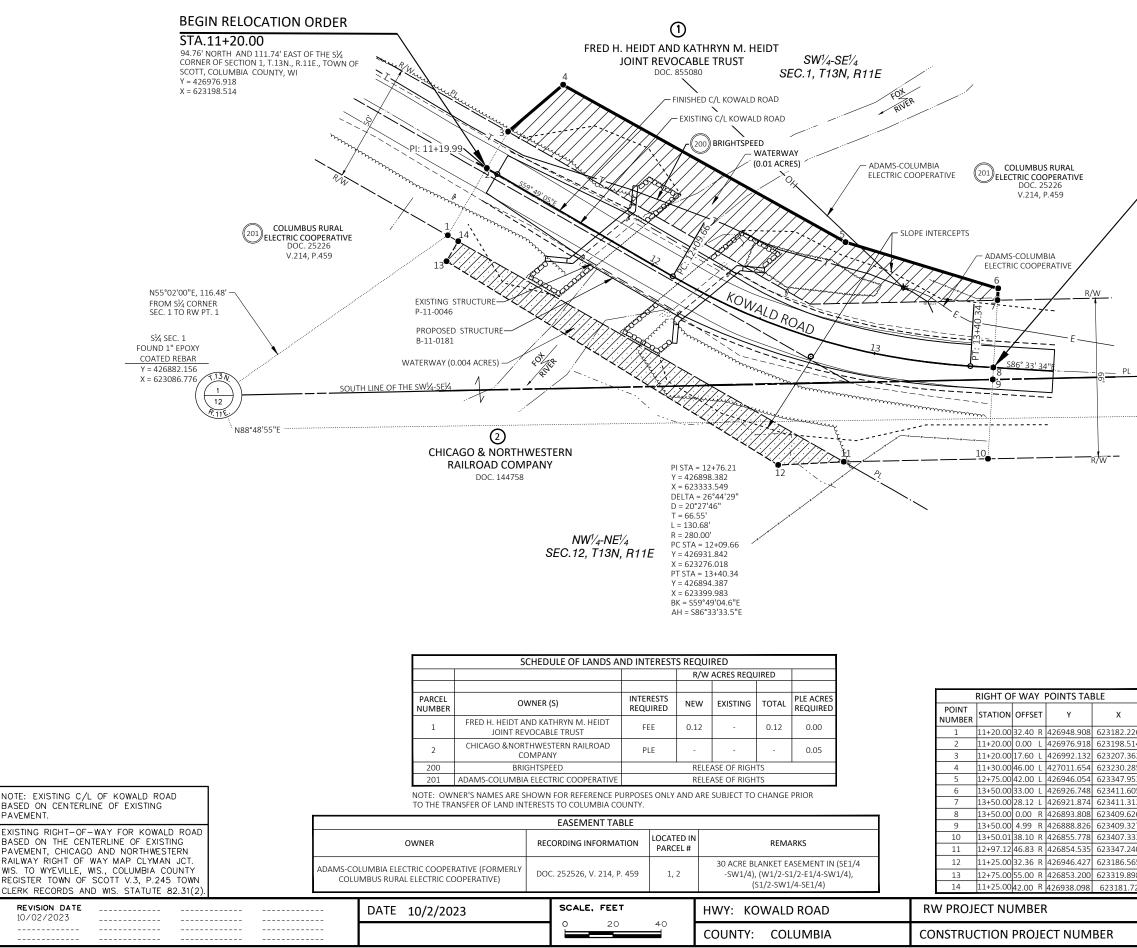
3



ALL ITEMS 010 UNLESS OTHERWISE NOTED

| CONVE | NTIONAL | ABBREVIATIONS | | CONVENTIONAL UTILITY SYMBOL | S | | | | R/ | W PROJECT NUMBER | NUMBER |
|--|------------------------------------|---|------------------------------------|---|--|-------------------|------------------------|---------------------|------------------------------|---|--------------------|
| ACCESS RIGHTS | AR | POINT OF INTERSECTION | PI | WATER | | • | | | | 6040-00-05 | |
| ACRES | AC | PROPERTY LINE | PL | TELEPHONE | - | | | | FE | DERAL PROJECT NUMBER | 4.01 |
| AHEAD ALUMINUM | AH ALUM | RECORDED AS REEL / IMAGE | (100') R/I | OVERHEAD TRANSMISSION LINES | | | | | | | |
| AND OTHERS | ET AL | REFERENCE LINE | R/L | CABLE TELEVISION | | | | | | PLAT OF RIGHT-OF-WAY | |
| BACK BLOCK | BK BLK | REMAINING RESTRICTIVE DEVELOPMENT | REM RDE | SANITARY SEWER | - | | | | | TOWN OF SCOTT, KOW | |
| CENTERLINE | C/L | EASEMENT | 1122 | STORM SEWER SS | - | | | | | (FOX RIVER BRIDGE, B-1 | 11-0181) |
| CERTIFIED SURVEY MAP CONCRETE | CSM CONC | RIGHT RIGHT OF WAY | RT R/W | | | | | | KOW | LD ROAD | |
| COUNTY | CO | SECTION | SEC | | | | | | | | COLUMBIA C |
| COUNTY TRUNK HIGHWAY DISTANCE | CTH DIST | SEPTIC VENT SQUARE FEET | SEPV SF | | | | | | cc | NSTRUCTION PROJECT NUM 6040-00-75 | IBER |
| CORNER | COR | STATE TRUNK HIGHWAY | STH | | ψ Ψ | | щIщ | | | 8040-00-75 | |
| DOCUMENT NUMBER EASEMENT | DOC EASE | STATION TELEPHONE PEDESTAL | STA TP | | | TOWN OF KINGSTON | 11 17 | TOWN OF MANCHESTER | END RELOCA | ION ORDER | |
| EXISTING | EX | TEMPORARY LIMITED | TLE | BEGIN RELOCATION | URDER "" | GREEN LAKE COUNTY | | | STA.13+50.00 | | |
| GAS VALVE GRID NORTH | GV GN | EASEMENT TRANSPORTATION PROJECT | трр | STA. 11+20.00 | | Same S | pring L | Manchester | |) S' EAST OF THE S½ CORNER OF | |
| HIGHWAY EASEMENT | HE | PLAT | | 94.76' NORTH AND 111.74' EAST OF TH CORNER OF SECTION 1, T.13N., R.11E., T | SHA | | | met all all is show | SECTION 1, T.13N., R.11E., | TOWN OF SCOTT, COLUMBIA | |
| IDENTIFICATION LAND CONTRACT | ID IC | UNITED STATES HIGHWAY VOLUME | USH | SCOTT, COLUMBIA COUNTY, WI | <u>g</u> E L | TTTTT | FF Kings | On | COUNTY, WI Y = 426893.808 | | |
| LEFT | LT | | • | Y = 426976.918 X = 623198.514 | | KINGST(| | | X = 623409.626 | | |
| MONUMENT NATIONAL GEODETIC SURVEY | MON NGS | CURVE DAT | l l | | | | | | Ę | | |
| NUMBER | NO | | 2 CH | | | | | | INC | | |
| OUTLOT | OL | LONG CHORD BEARING | 28 28 | | | Dalton | HH | NG LN | ដ | | |
| PAGE POINT OF TANGENCY | Р РТ | RADIUS F DEGREE OF CURVE | | | OWN OWN | untain Cr H | | | AKE | | |
| PERMANENT LIMITED | PLE | CENTRAL ANGLE | /DELTA | | | | ST LN -GG | INT REFERENCE | | | |
| EASEMENT POINT OF BEGINNING | РОВ | LENGTH OF CURVE L TANGENT T | | | EE | | | YUNKER RD RD | EE | | |
| POINT OF CURVATURE | PC | DIRECTION AHEAD DIRECTION BACK | | | 1-14-11 RD | | -HH/ 31/N | | 89 | | |
| POINT OF COMPOUND CURVE | PCC CONVEI | TIONAL SYMBOLS | - | | T-13-N | | 1 For | | | | |
| | | | R/W MONUMEN (TO BE SET) | | 6 | | WALP OF | 1. Ferrit | <u></u> | | |
| SECTION LINE QUARTER LINE | | SECTION CORNER SYMBOL | | | | | | | -13-N | | |
| SIXTEENTH LINE | <u> </u> | <u> </u> | NON-MONUME R/W POINT | NIED 8 | 9 | | SCHMIDT IRD | | | | |
| NEW REFERENCE LINE | \wedge | | FOUND IRON PIN (1-INCH UNLESS N | | | | av are | | | | |
| NEW R/W LINE | | MONUMENT | | | z | | | SCHINDT RD | | | |
| EXISTING R/W OR HE LINE | | GEODETIC SURVEY MONUMI SIXTEENTH CORNER MONUM | | | 5 ≧ | R al | | | | | |
| PROPERTY LINE | <u>P.L</u> | | | • | ARCELLO COUNTY FENSKE | 5 8 | | E. Frieslas | <u>F</u> | ····· | |
| LOT, TIE & OTHER MINOR LINES | | SIGN • SIGN | SIGN | 0125 \$ SIGN | Ř S Ľ | KOSS B RD | SCHARF RD | EF • 8 | 5 | | |
| SLOPE INTERCEPT | | | COMPENSABLE NO | N-COMPENSABLE | ž g | | | | 8 | | |
| CORPORATE LIMITS | //////// | ELECTRIC POLE TELEPHONE POLE | | <u>ь</u> | ÖZ | H H | <u> </u> | | BIA | S Alama 19 M | Ann En Star |
| UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) | W (TYPE) | PEDESTAL (LABEL TYPE) | | ø X | | 6 d 1 | DYNSTRA DR | Friesland | Σ Σ | associates er | |
| NEW R/W (FEE OR HE) | | (TV, TEL, ELEC, ETC.) | | | ē ö | F | SANDERSON | Friesland | no | Engineers - Archi | itects - Surveyors |
| (HATCHING VARIES BY OWNER) | | ACCESS RESTRICTED BY ACQU | SITION | | | CROWN RD RD | | | õ | 560 SUNRIS | |
| TEMPORARY LIMITED EASEMENT AREA | | NO ACCESS (BY STATUTORY A | JTHORITY) | ******** | reellon | £ (22) | 3° ž ši | | | SPRING GREEN PHONE : 608 | |
| EASEMENT AREA | | ACCESS RESTRICTED (BY PREV | ous | <u>*****</u> | | <u>щ 33</u> | | | | FAX : 608.5 | 588.9322 |
| (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT) | 1.1.1.1.1.1.1. | PROJECT OR CONTROL) | | AAAAAAAAAA | 31 | ARNI SCON | H 36 | | | I HEREBY CERTIFY THAT | THIS PLAT WA |
| TRANSMISSION STRUCTURES | <u></u> | NO ACCESS (NEW HIGHWAY) | | | | POD DOD | VAUGHN | | | MADE FOR TOWN OF SC AND IS CORRECT TO TH | OTT, WISCONSIN |
| _ | IOVED I''L | PARCEL NUMBER (25) | UTILITY NUMBE | R (40) | 5 | TOWN OF SCOTT | | TOWN OF RANDOLPH | | KNOWLEDGE AND BELIEF | |
| | | | | | R-10-E R-11-E | | 11-1 | | | | <i>u.</i> |
| BRIDGE CULVER | r Jana I | PARALLEL OFFSETS | <u>+</u> ~ | <u> </u> | de de | | R-1. R-1. | | | COM | Milline . |
| NOTES: | | | | | | | | | | 1200 MM | S MAL |
| | TARE WISCONS | IN COORDINATE REFERENCE | YSTEM COORDINA | TES (WISCRS), COLUMBIA COUNTY. NAD83(2011). | IN U.S. SURVEY FEET. VALUES SHOWN | ARE GRID N | | | | | |
| | | | | FES (WISCRS), COLUMBIA COUNTY, NAD83(2011), ID DISTANCES. | | . A | LAYOUT | | | $ \int \frac{\partial f}{\partial t} dt $ | \\$\$ |
| | | | •• | SS OTHERWISE NOTED, AND WILL BE PLACED PRICE | | KE . | | | | JEWELL | ト 厪. J |
| ALL RIGHT-OF-WAY LINES DEPIC DOCUMENTS, OR FROM CENTER | LINE OF EXISTIN | I-ACQUISITION AREAS ARE INT IG PAVEMENTS. | ENDED TO RE-ESTA | BLISH EXISTING RIGHT-OF-WAY LINES AS DETERM | INED FROM PREVIOUS PROJECTS, OTH | ER RECORDED SCA | LE 2 MI | | | S-1898 | |
| RIGHT-OF-WAY BOUNDARIES AR | E DEFINED WIT | I COURSES OF THE PERIMETER | OF THE HIGHWAY | LANDS REFERENCED TO THE U.S. PUBLIC LAND SU | RVEY SYSTEM OR OTHER "SURVEYS" O | F PUBLIC | LENGTH OF CENTERLINE = | | | | ⊑,/// /≣ |
| DIMENSIONING FOR THE NEW R | • | | • | | | | LENGIN OF CENTERLINE = | | | | 12-11 |
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| | | | | | | | | | | | 12022 |
| THE HIGHWAY AUTHORITIES MA | Y DEEM DESIRA | BLE, BUT WITHOUT PREJUDIC R OTHERWISE ADVERSEI V ACT | TO THE OWNER'S | RPOSES, AS DEFINED HEREIN, INCLUDING THE RIC CLUDING THE RIGHT TO PRESERVE, PROTECT, REN RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENT FACILITIES. | S ON SAID LANDS OR TO FLATTEN THE | SLOPES, | | | REVISION DATE | - ovr | 7 |
| AN EASEMENT FOR HIGHWAY PI | URPOSES (HE) | S LONG AS SO USED. INCLUDE | IG THE RIGHT TO P | RESERVE, PROTECT, REMOVE, OR PLANT THEREO | ANY VEGETATION THAT THE HIGHWA | λY | | | 10/02/2023 N.C | | |
| | | | | | | | | | //. //lal/ | 1 | |
| PROPERTY LINES SHOWN ON TH REPRESENTATION OF EXISTING | IS PLAT ARE DRA PROPERTY LINES | WN FROM DATA DERIVED FR , EXCLUDING RIGHT-OF-WAY, | OM MAPS AND DOC AND SHOULD NOT | CUMENTS OF PUBLIC RECORD AND/OR EXISTING C BE USED AS A SUBSTITUTE FOR AN ACCURATE FIE | CCUPATIONAL LINES, THIS PLAT MAY N D SURVEY. | NOT BE A TRUE | | - | 1/onerfill | APPROVED FOR TOWN OF SO | 1111/- |
| FOR CURRENT ACCESS/DRIVEWA | | | | | | | | | | | (NAME/TITLE) |
| | | | | BE CHECKED TO DETERMINE PROPERTY BOUNDAR | IFS AND ACCESS RIGHTS | | | , L | 1 | | (money HILE) |
| THIS PLAT IS A GRAPHIC REPRES | ENTATION AND | STON NEPENCIACE FORFOSE C | NET. DELDS (41051 | be checked to berefinite i not entri boottoA | | | | | 1011,2023 | | |

| ILE NA | ¥∀E ::\$ | n Veto Boze VM | 그는지? - 전(s) [| · − Koadd e | Road Stidge st | - 11 - Ch 64 | -Columbia - | Colve MixWi | 164%_KOWALU | -≺≺₩ | HILLdw |
|--------|----------|----------------|---------------|-------------|----------------|--------------|-------------|-------------|-------------|------|--------|
|--------|----------|----------------|---------------|-------------|----------------|--------------|-------------|-------------|-------------|------|--------|



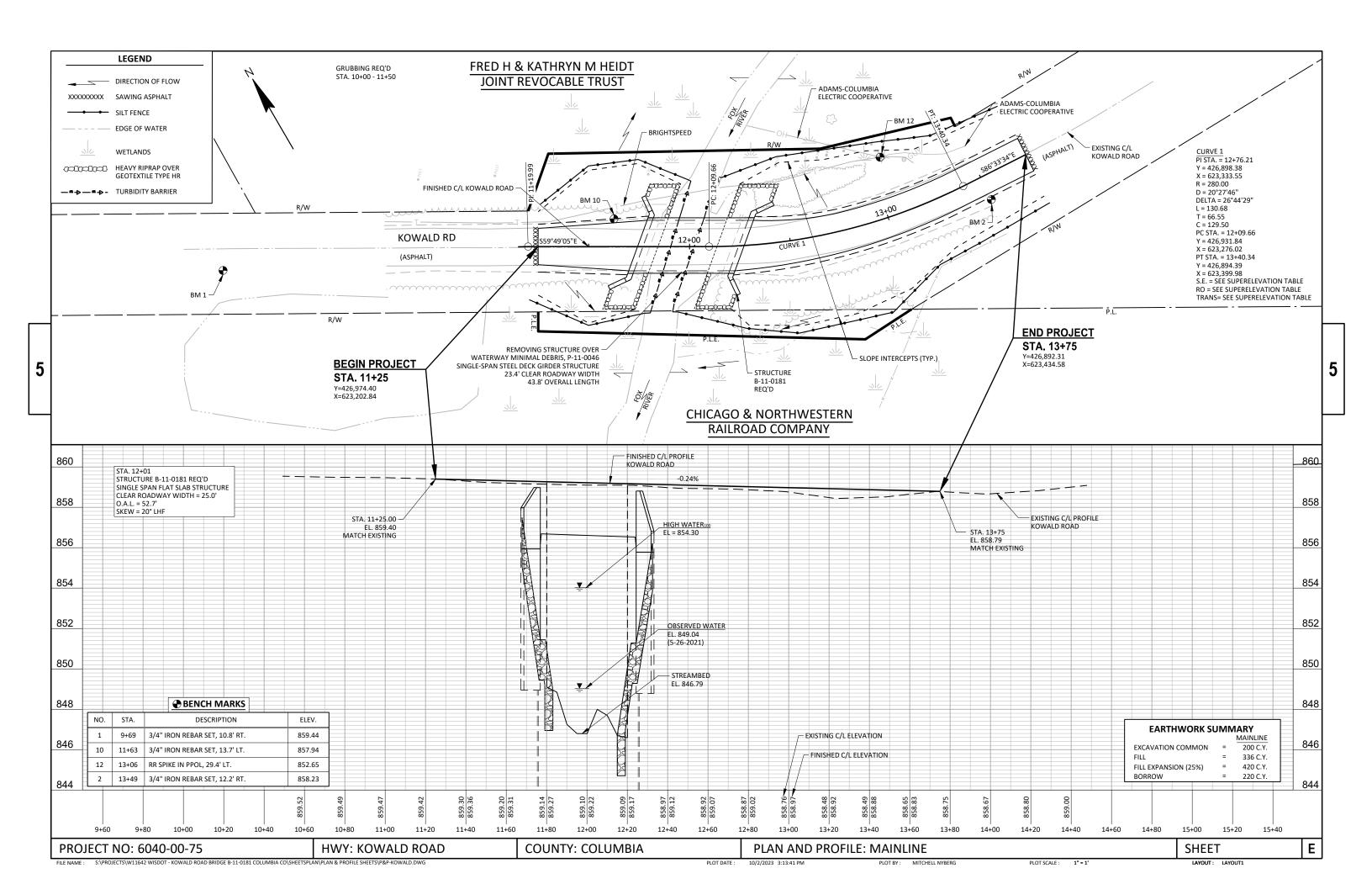
FILE NAME : S: \Projects\W11642_KOWALD_RD_RW_PLAT.dwg

PLOT DATE : 10/2/2023 1:57 PM

PLOT BY : Tim Velte

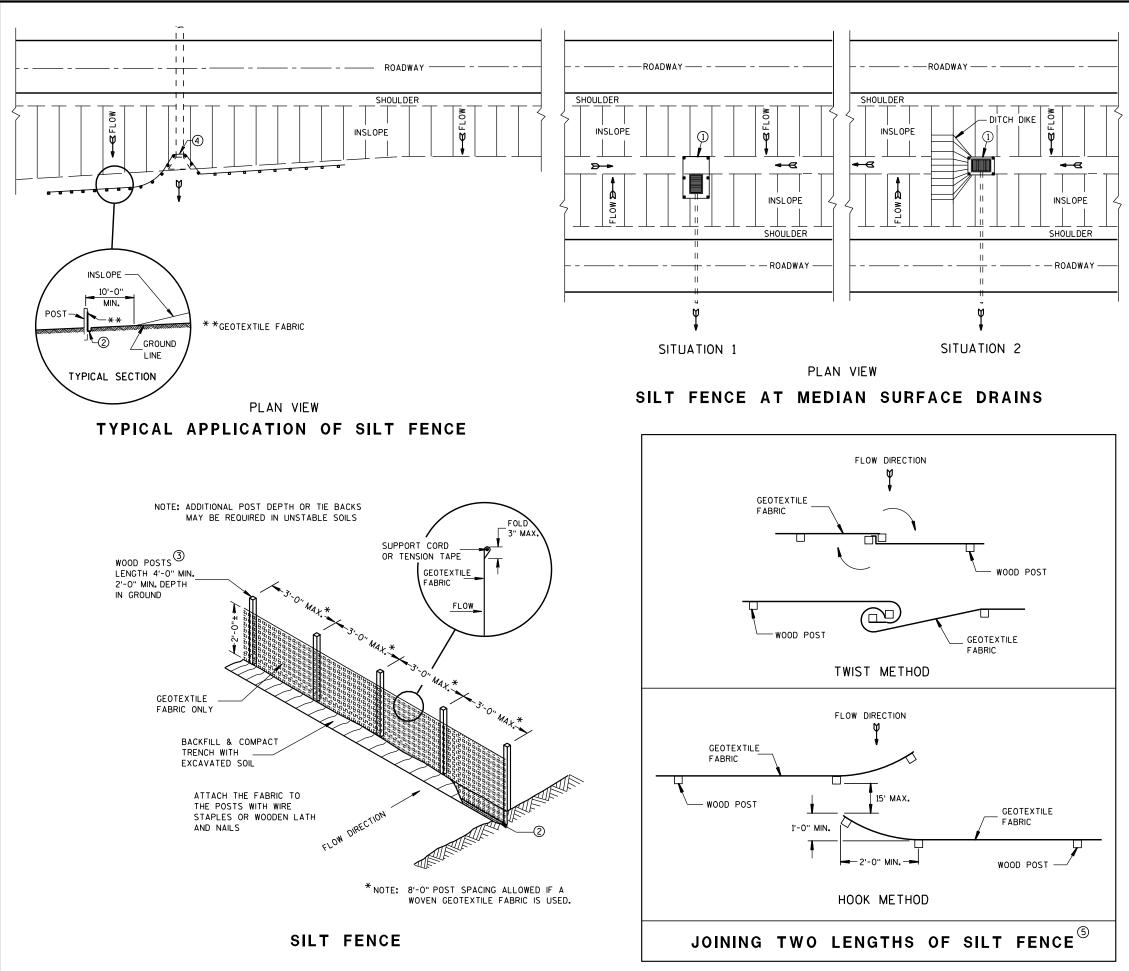
| | S 11. SE(CO Y = | FA.13+5 | AND 322.85' EAS 3N., R.11E., TOW | T OF THE | S ¹ / ₄ CORNER OF | | | | | |
|--|-------------------------------------|-------------------|-------------------------------------|-------------------|---|--|-----|----|---|--|
| | | | | | | SE SEC. 1 FOUND ALUMINUM COLUMBIA COUNTY MONUMENT Y = 426937.345 X = 625755.596 | | | 4 | |
| | | | | | | | | | | |
| | | | OF WAY LINE | TABLE | | | | | | |
| | | POINT TO POINT | BEARING | DISTANCE | E | | | | | |
| 26 | | 1 TO 2 | N30° 10' 44"E | 32.40' |] | | | | | |
| 14 52 | | 2 TO 3 | N30° 10' 55"E | 17.60' | 4 | | | | | |
| 35 | | 3 TO 4 4 TO 5 | N49° 34' 47"E S60° 51' 38"E | 30.11' 134.72' | 4 | | | | | |
| 53 | | 5 TO 6 | S73° 07' 38"E | 66.52' | 1 | | | | | |
| 05 | | 6 TO 7 | S03° 26' 26"W | 4.88' |] | | | | | |
| 12 | | 7 TO 8 | S03° 26' 12"W | 28.12' | 4 | | | | | |
| 14 52 35 53 05 12 26 27 33 | | 8 TO 9 9 TO 10 | S03° 26' 12"W S03° 27' 13"W | 4.99' 33.11' | - | | | | | |
| 33 | | 10 TO 11 | S03 27 13 W | 60.10' | 1 | | | | | |
| 10 | | 11 TO 12 | S87° 12' 16"W | 27.37' | 1 | | | | | |
| 55 | | 12 TO 13 | N58° 25' 59"W | 162.17' | 1 | | | | | |
| 98 '21 | | 13 TO 14 | N30° 10' 55"E | 9.64' | 4 | | | | | |
| 21 | | 14 TO 1 | N60° 14' 21"W | 5.00' | | | | | | |
| | 60 | 40-00-05 | 5 | | PLAT SHEET | 4.02 | | | | |
| | | 6040-0 | 0-75 | | PS&E SHEET | | E | - | | |
| | | PLOT | SCALE : 1:1 | | wı | SDOT/CADDS SH | ЕЕТ | 70 |) | |

PLOT NAME :



Standard Detail Drawing List

| 08E09-06 | SILT FENCE |
|-----------|---|
| 08E11-02 | TURBI DI TY BARRI ER |
| 12A03-10 | NAME PLATE (STRUCTURES) |
| 13C19-03 | HMA LONGITUDI NAL JOINTS |
| 15A01-13A | MARKER POST FOR RIGHT-OF-WAY |
| 15C02-09A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C02-09B | BARRICADES AND SIGNS FOR VARIOUS CLOSURES |
| 15C06-12 | SIGNING & MARKING FOR TWO LANE BRIDGES |
| 15C11-10B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |



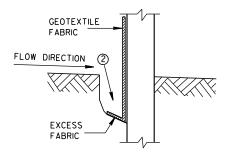
S.D.D. 8 E 9

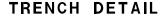
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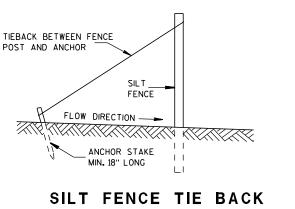
GENERAL NOTES

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

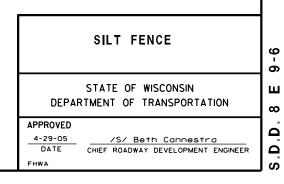
- \bigcirc horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3)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

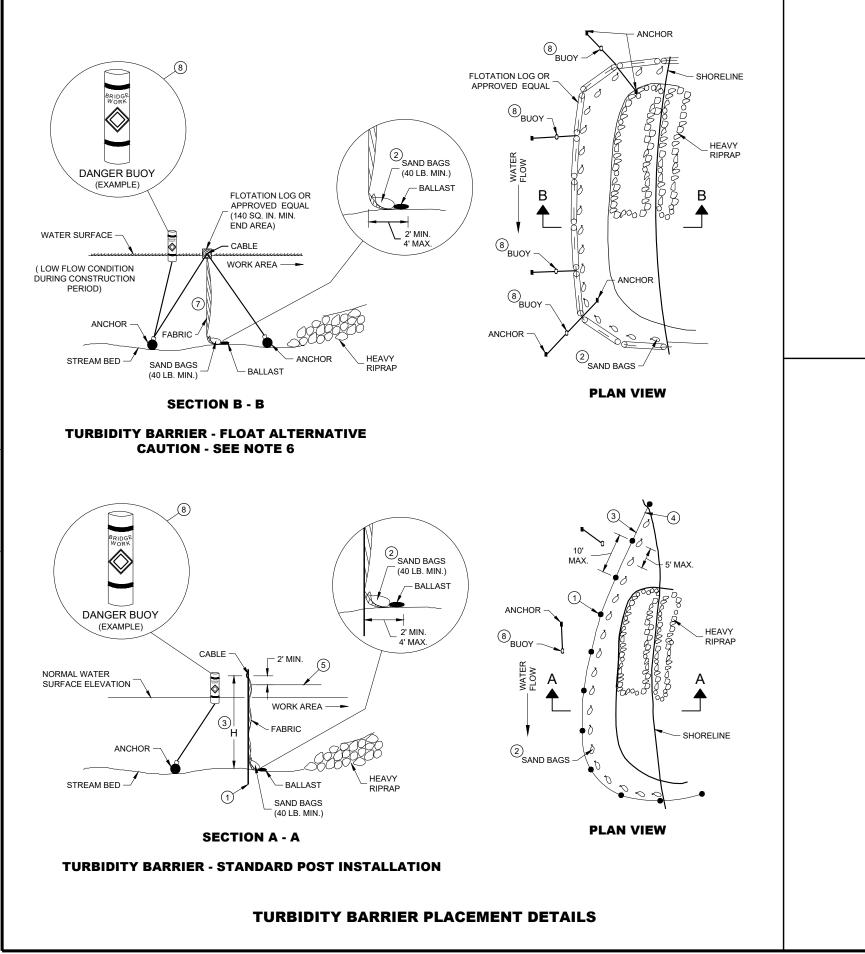




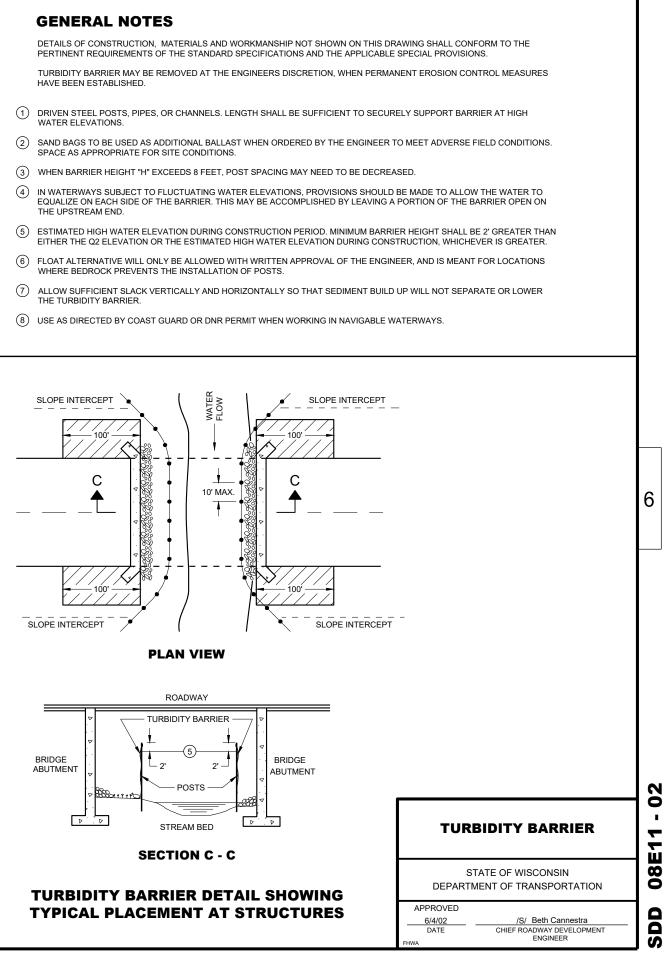


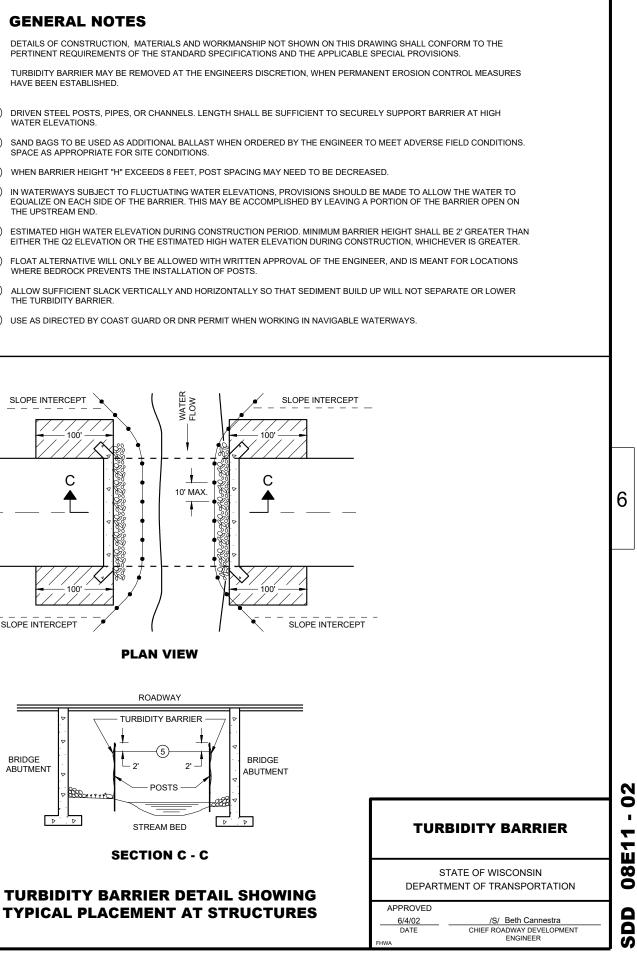
(WHEN REQUIRED BY THE ENGINEER)



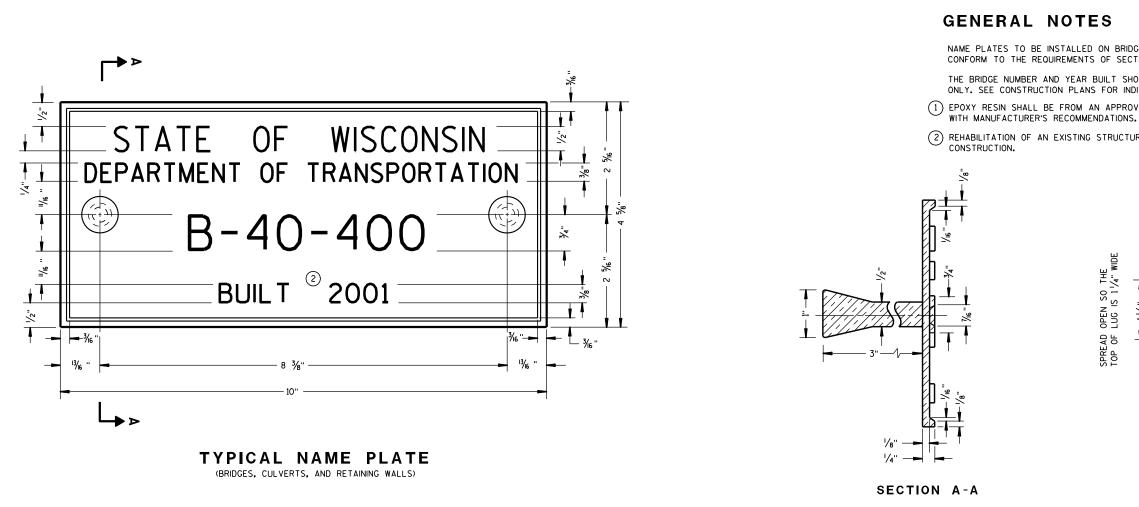


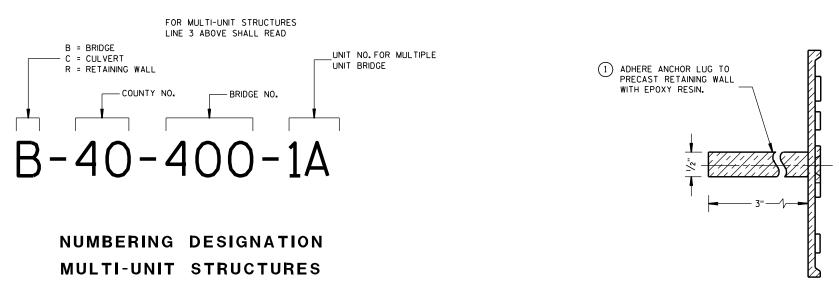
- WATER ELEVATIONS.





SDD 08E -02



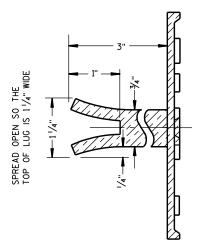


ALTERNATE LUG (FOR ATTACHMENT TO PRECAST STRUCTURES)

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

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE



ALTERNATE LUG

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

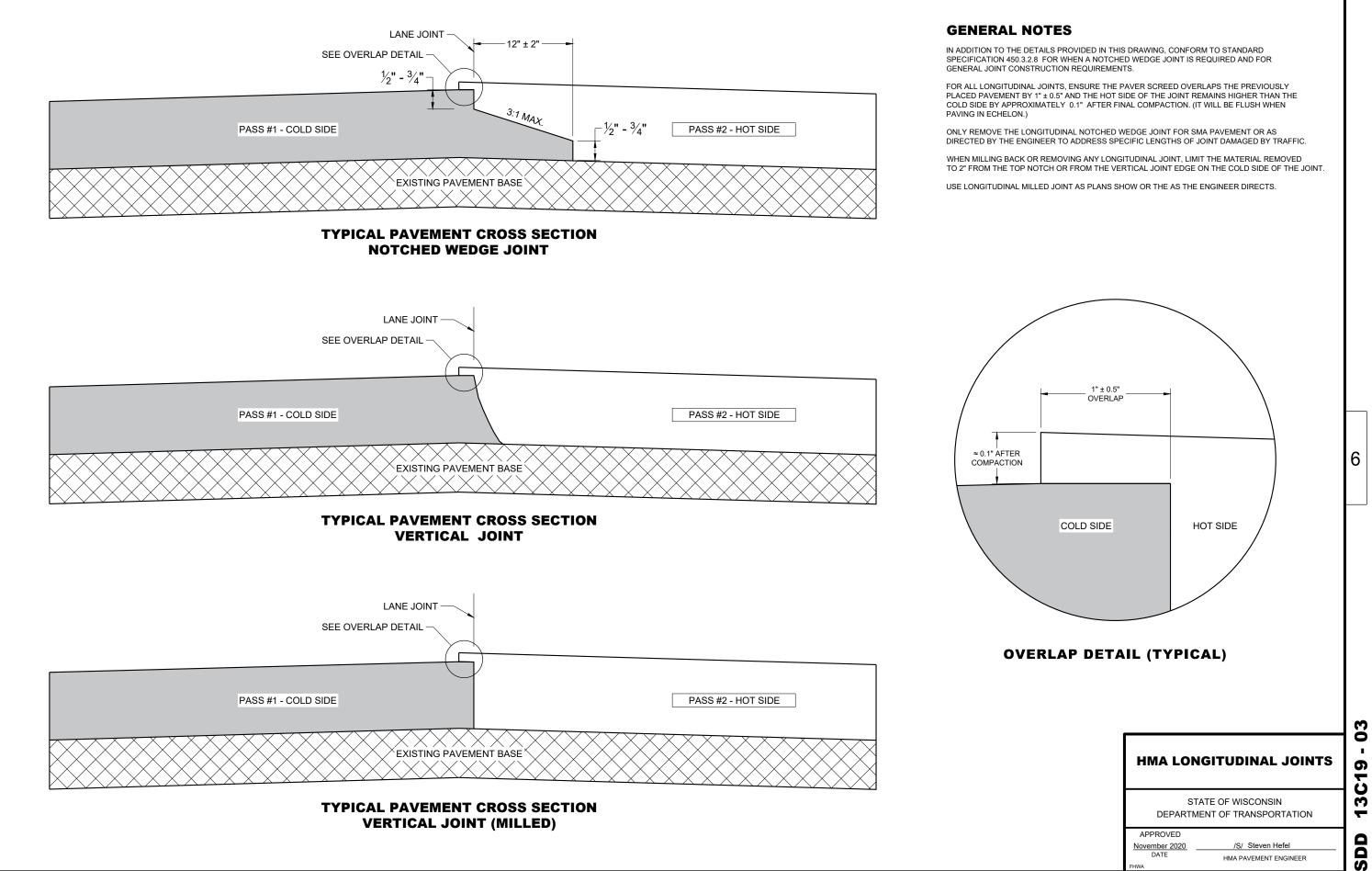
APPROVED

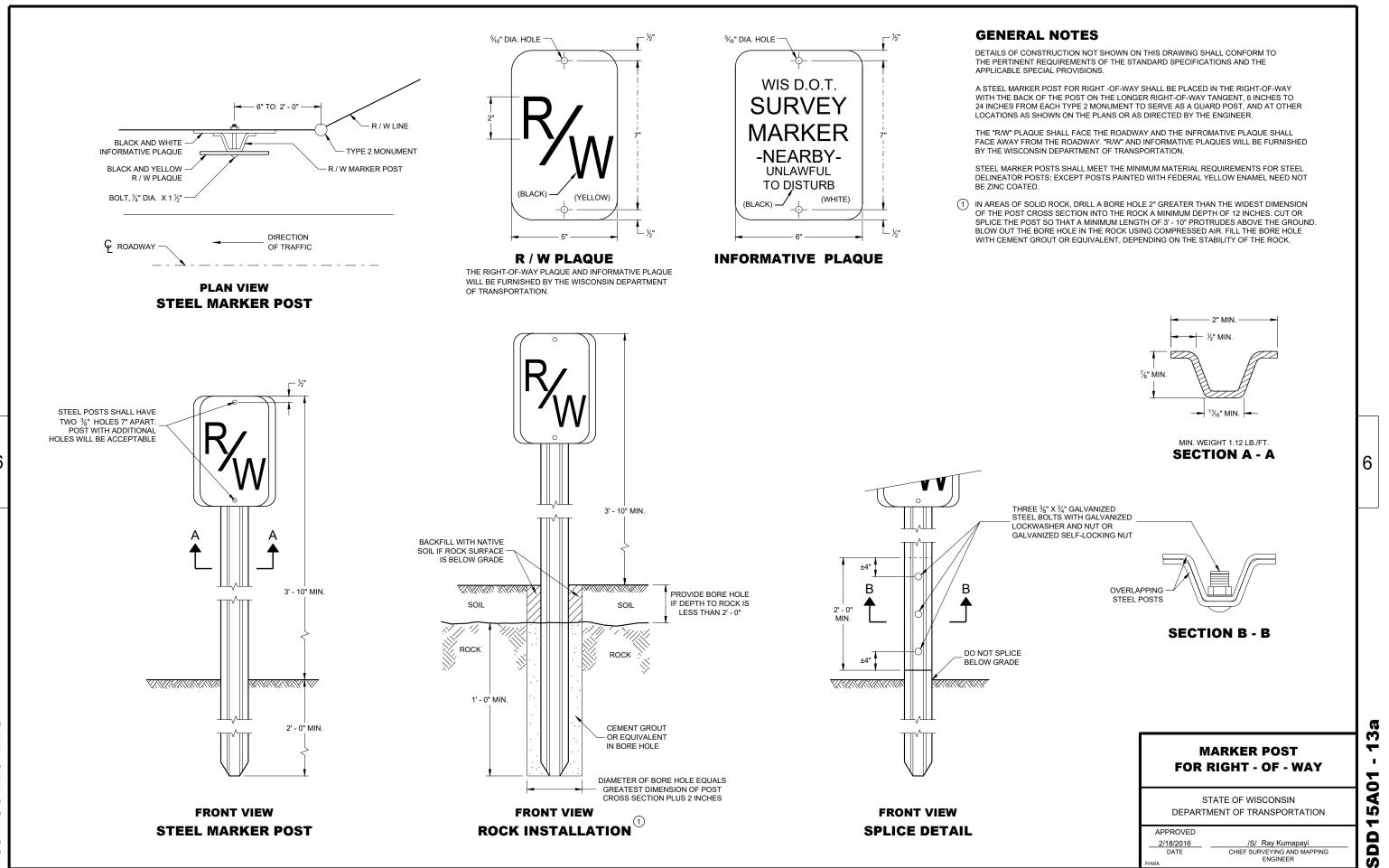
3/26/10 DATE FHWA

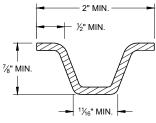
/S/ Scot Becker CHIEF STRUCTURAL DEVELOPMENT ENGINEER 3-10 ∢ 2 Δ

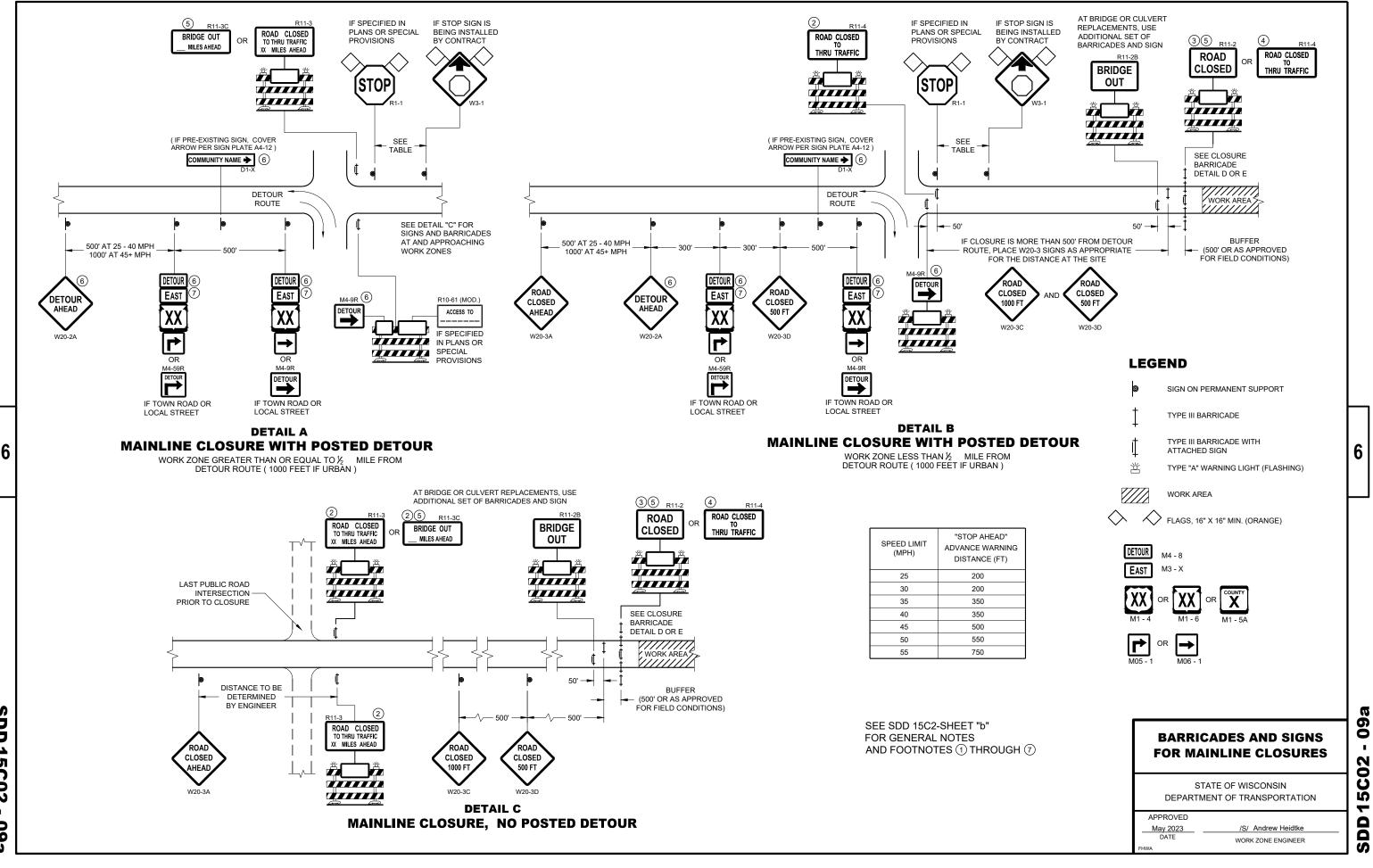
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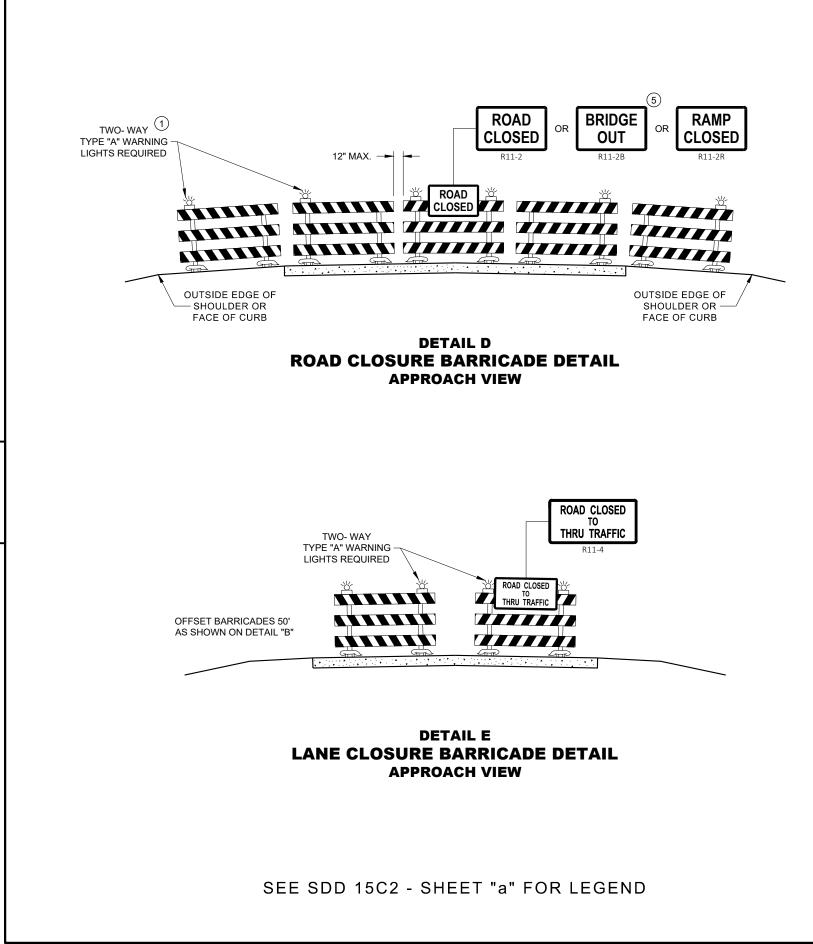








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GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

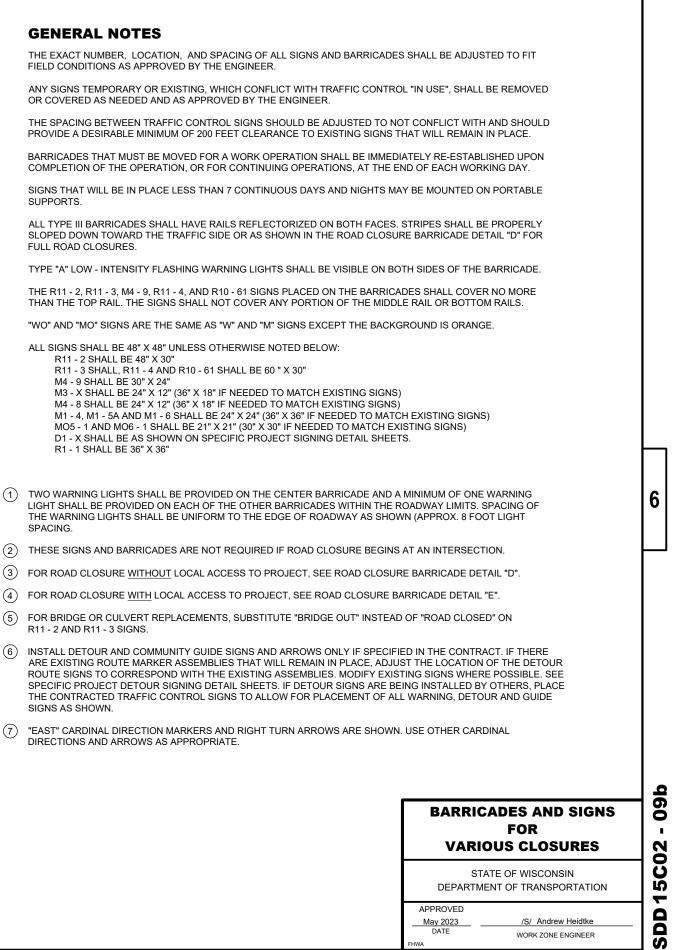
FULL ROAD CLOSURES.

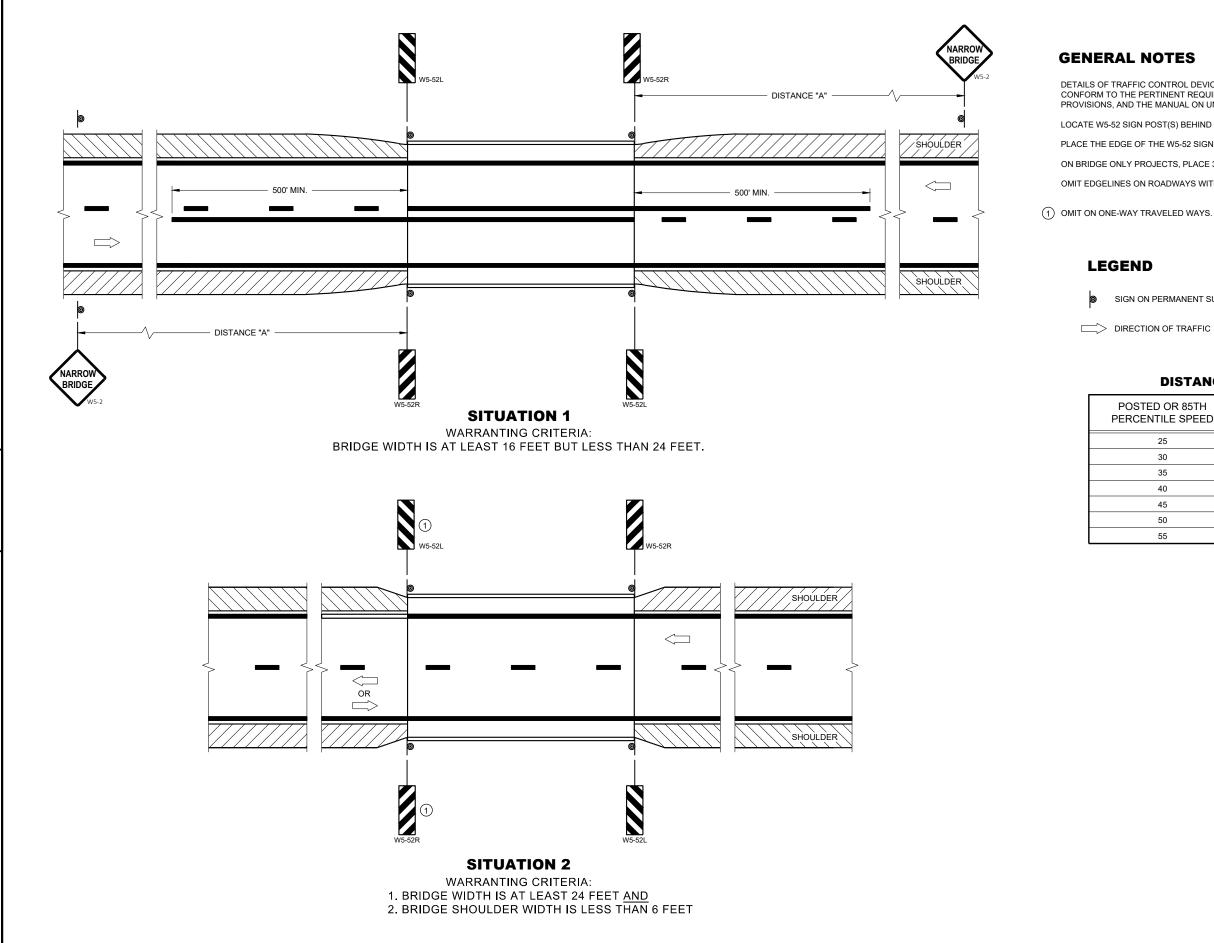
THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"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 SHALL, 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" (36" X 18" 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 THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.





SDD

15C06-12

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

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

| OSTED OR 85TH RCENTILE SPEED | DISTANCE "A" |
|---------------------------------|--------------|
| 25 | 150' |
| 30 | 200' |
| 35 | 250' |
| 40 | 300' |
| 45 | 400' |
| 50 | 550' |
| 55 | 700' |

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SIGNING AND MARKING FOR TWO LANE BRIDGES

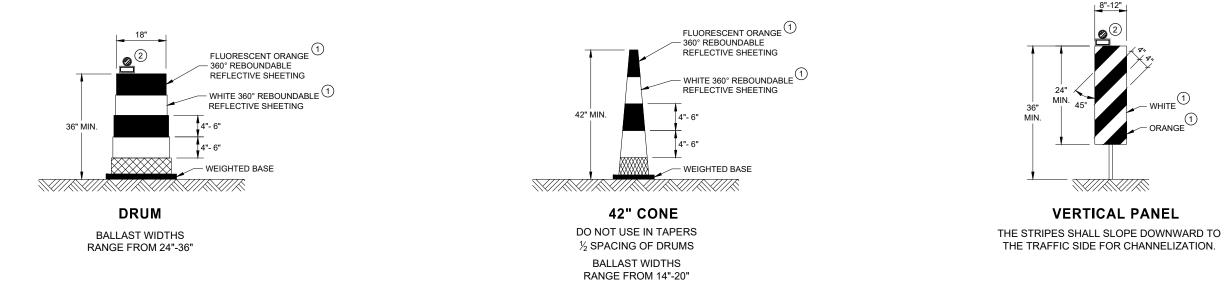
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

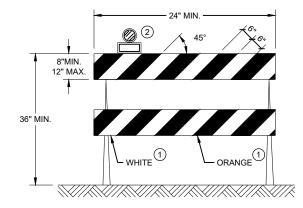
APPROVED May 2023 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

GENERAL NOTES

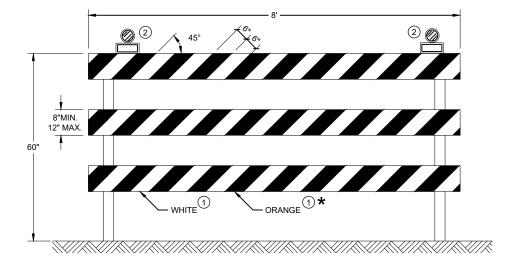
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





TYPE II BARRICADE

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



TYPE III BARRICADE

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

★ IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

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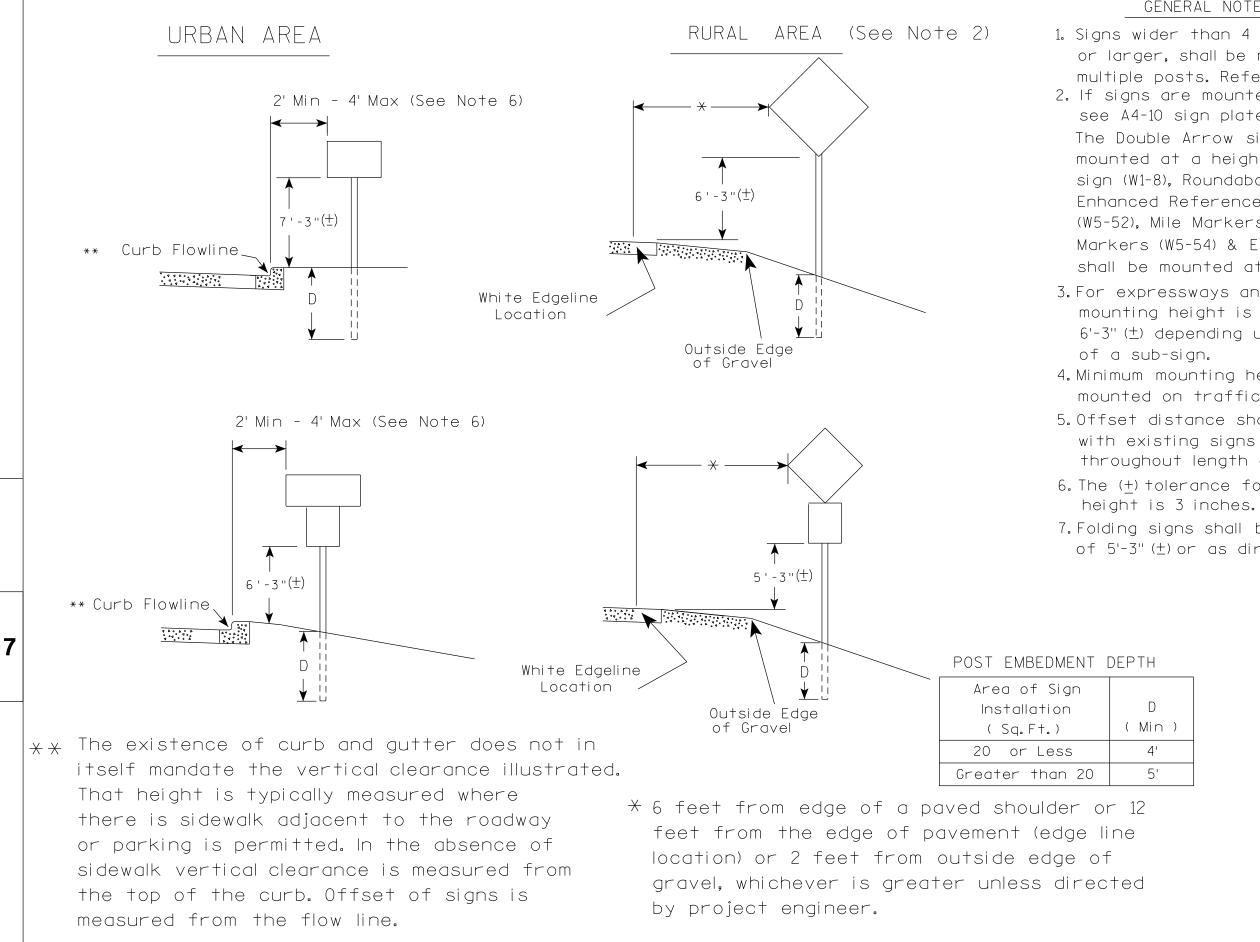
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CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

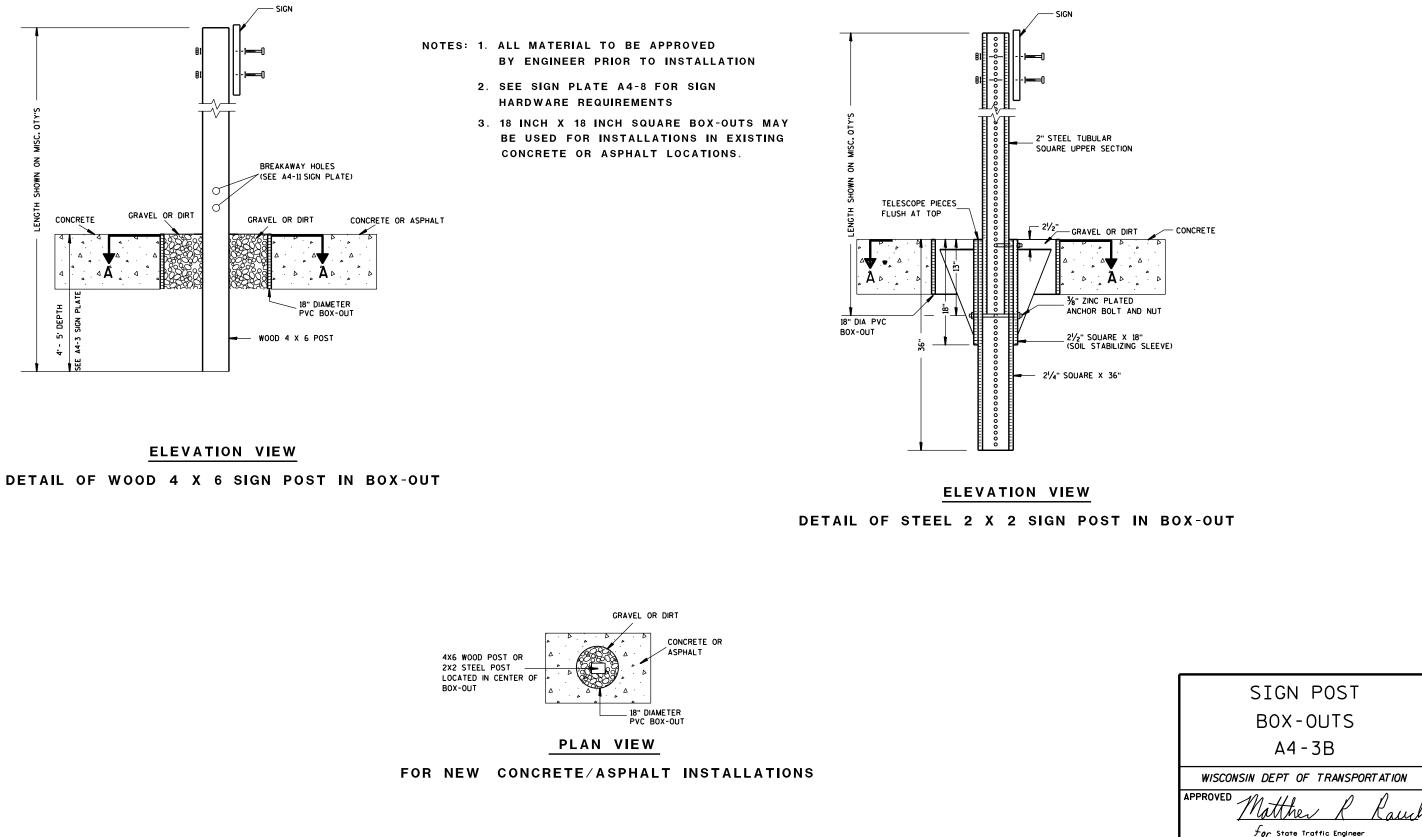


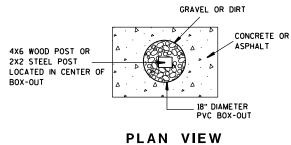
| PROJECT NO: | HWY: | COUNTY: | | | |
|-------------|------|---------|------------------------------|----------------|-------------|
| | | | DI AT DITE : 47 HUN 0000 4 4 | DI OT DY IN IO | DLOT NAME - |

GENERAL NOTES

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

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





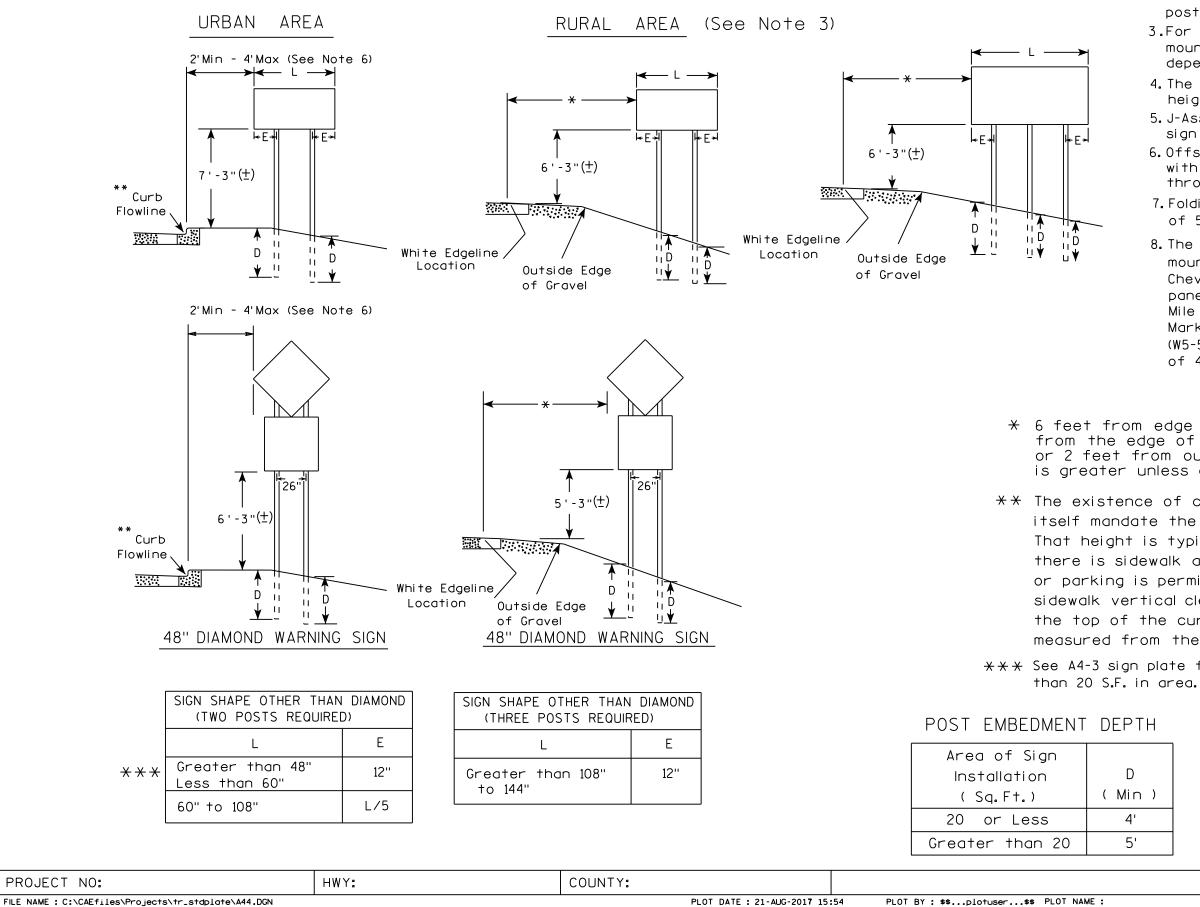
| PROJECT NO: | HWY: | COUNTY: | | | | |
|---|------|---------|------------------------------|---|------------------|-------------|
| FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN | | | PLOT DATE : 27-JAN-2014 09:4 | 8 | PLOT BY : mscsja | PLOT NAME : |

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

SHEET NO:

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

Ε



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

7

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is $7'-3''(\pm)$ or $6'-3''(\pm)$ depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

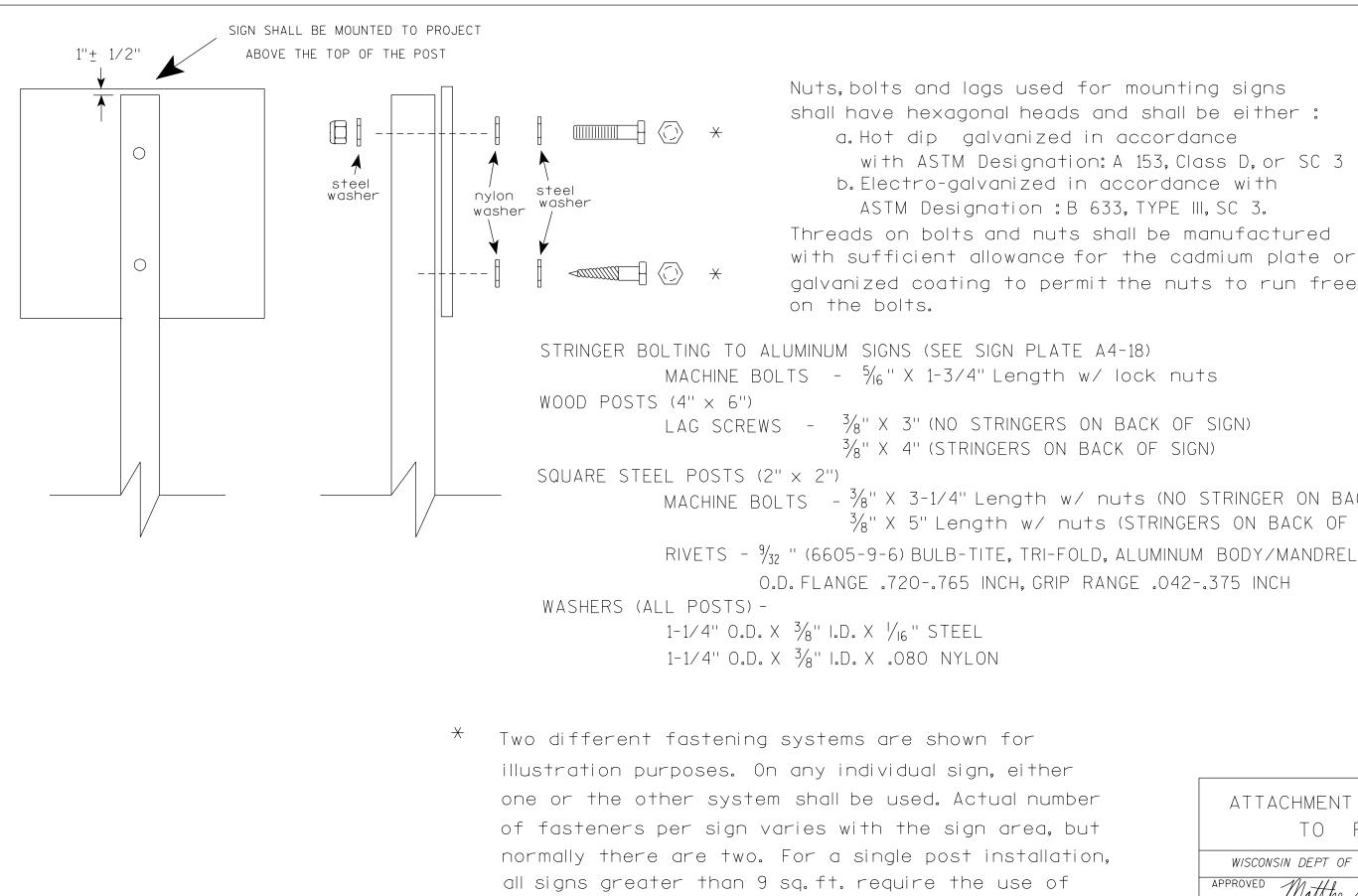
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

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

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

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



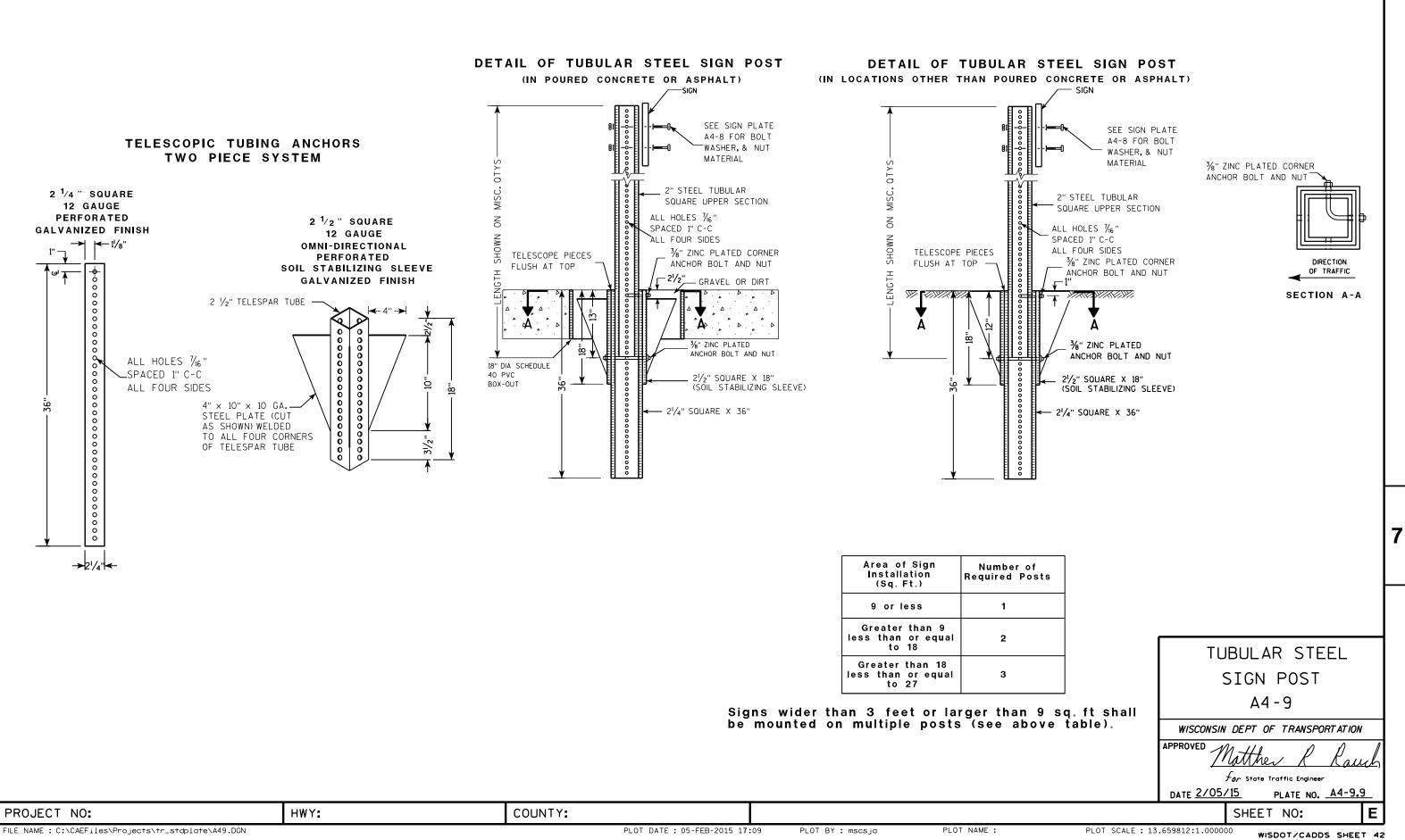
3 fasteners.

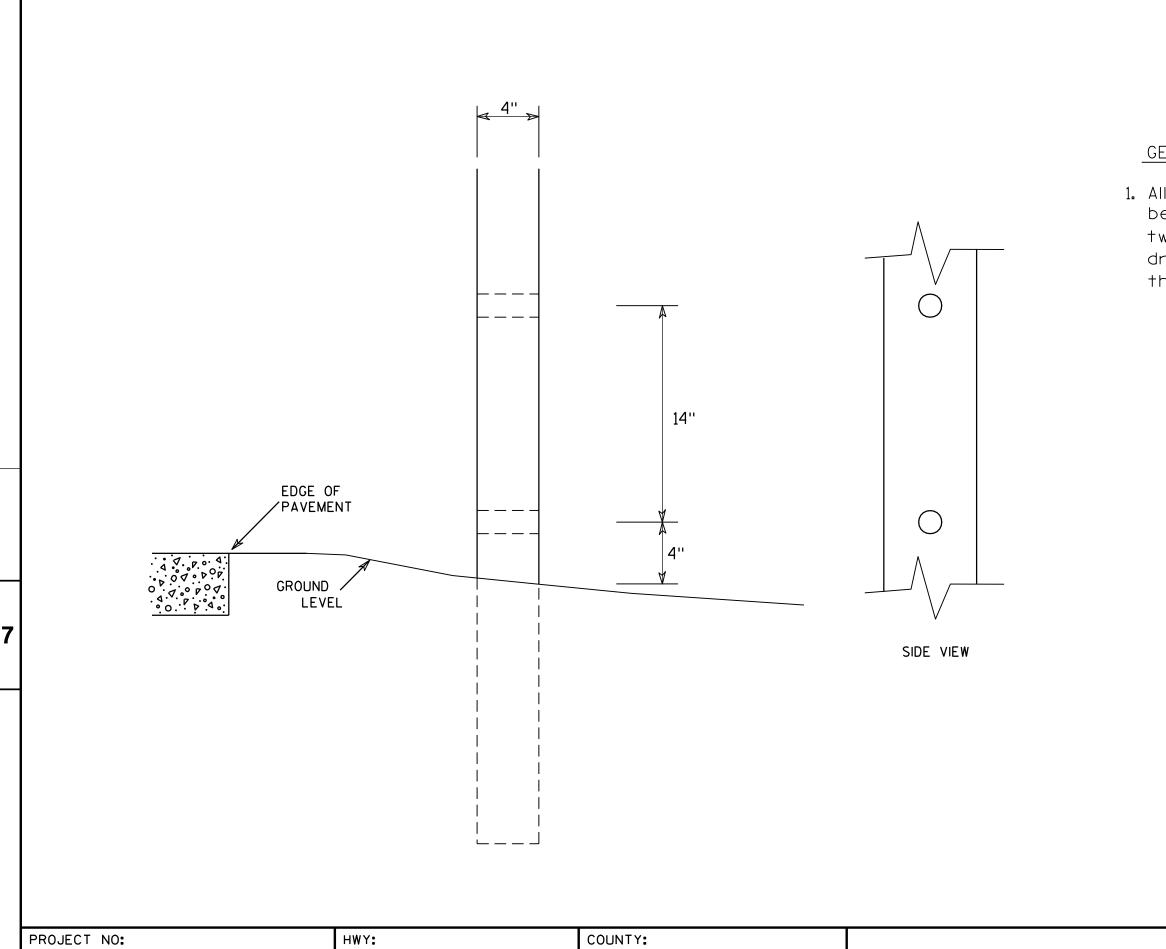
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

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

MACHINE BOLTS - ³/₈" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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



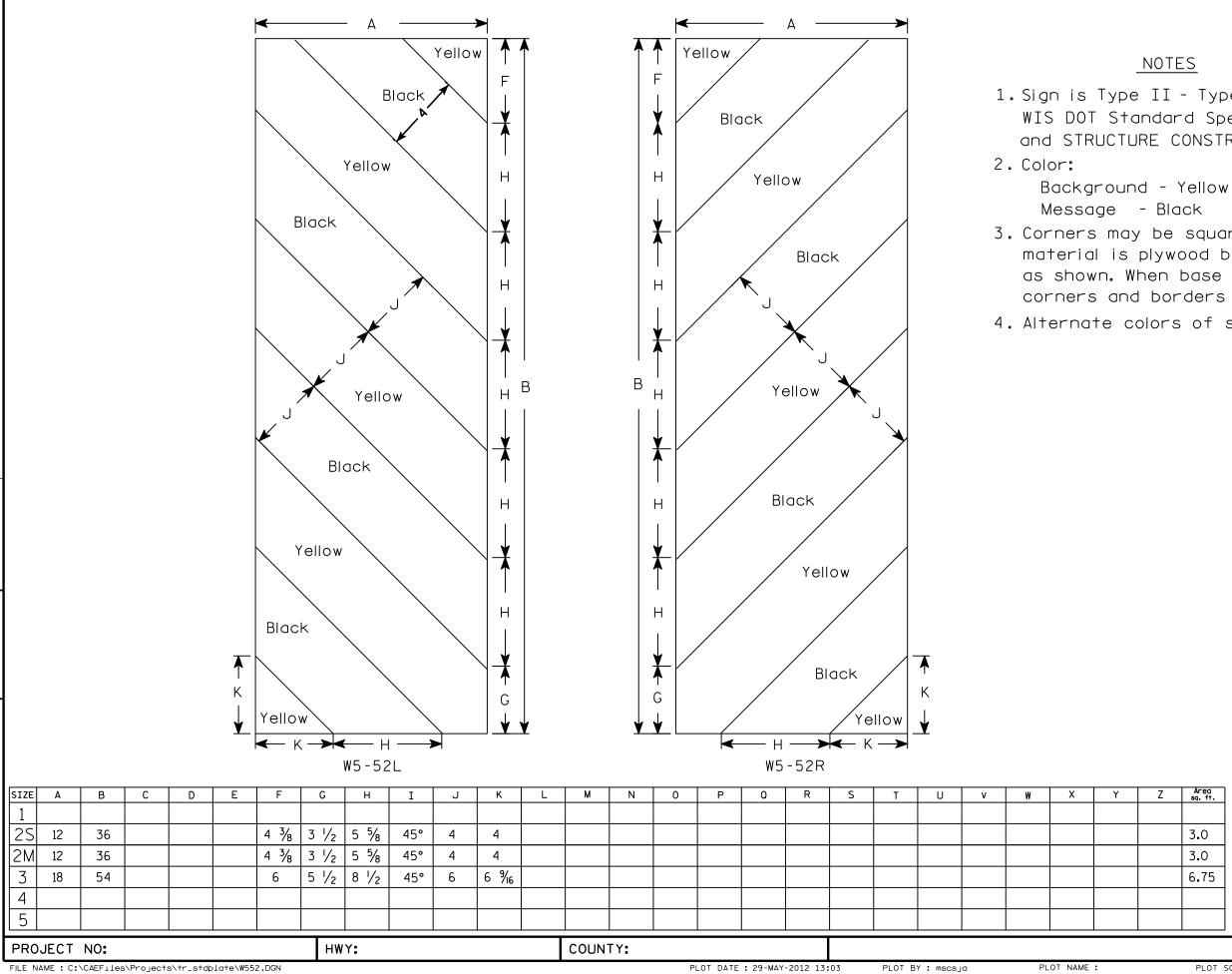


FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

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

| | 4 | Хe | ô | WOO | DF | POST | |
|----------|---|-------|-----------|----------|----------|----------------|---|
| | | MOD | IF | FICA | TI | SNC | |
| | WISCONSIN DEPT OF TRANSPORTATION | | | | | | |
| | APPROVE | D | | hester . | Γέ | Spang | |
| | | | tor | State Tr | affic Er | ngineer | |
| | DATE 3 | /27/9 | <u>17</u> | PLA | TE NO | <u>A4-11.2</u> | 2 |
| | | | 9 | SHEET | N0: | | Ε |
| OT SCALE | T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 42 | | | | | | |



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W552.DGN

7

PLOT NAME :

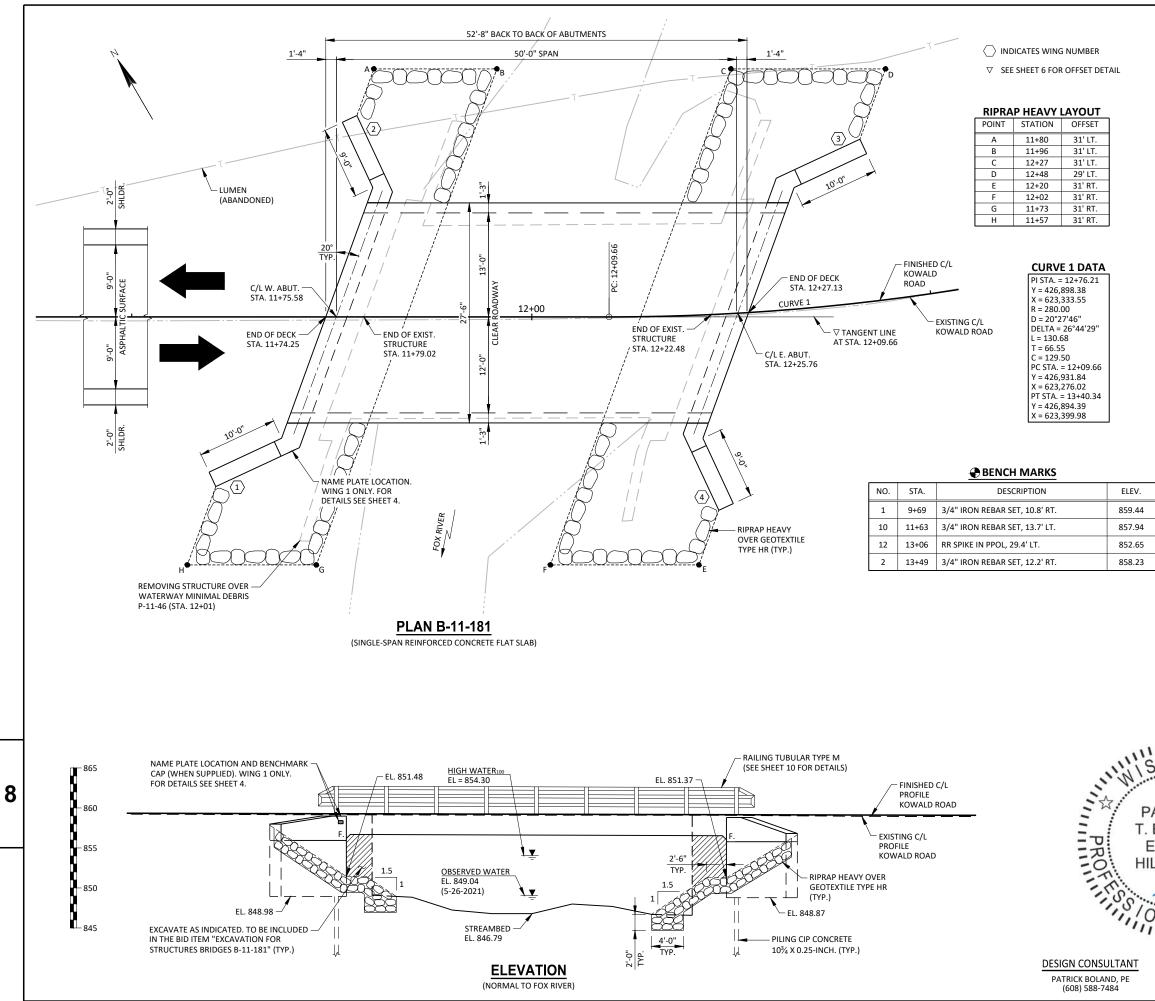
NOTES

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

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 4. Alternate colors of stripes as shown.

| Z | Area sq. ft. | STANDARD SIGN |
|---|-----------------|---|
| | | W5-52L & W5-52R |
| | 3.0 | |
| | 3.0 | WISCONSIN DEPT OF TRANSPORTATION |
| | 6.75 | APPROVED Matthew R Rauch |
| | | for State Traffic Engineer |
| | | DATE 5/29/12 PLATE NO. W5-52.9 |
| | | SHEET NO: E |
| | PLOT | SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42 |

PLOT DATE : 29-MAY-2012 13:03



S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\01-GENERAL PLAN-KOWALD.DW

PLOT DATE : 8/17/2023 2:56:06 PM

PLOT BY : BOLAND, PATRICK

STATE PROJECT NUMBER

6040-00-75

DESIGN DATA

LIVE LOAD:

| DESIGN LOADING | HL-93 |
|--|----------------|
| INVENTORY RATING FACTOR | RF=1.10 |
| OPERATING RATING FACTOR | RF=1.43 |
| WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) | 250 KIPS |
| | |
| STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 I | P.S.F. |
| MATERIAL PROPERTIES: | |
| CONCRETE MASONRY, SUPERSTRUCTURE f'c | = 4,000 P.S.I. |

| | ALL OTHER | f'c = 3,500 P.S.I. |
|-------------------------|-----------|--------------------|
| HIGH-STRENGTH BAR STEEL | | |
| REINFORCEMENT, GRADE 60 | | fy = 60,000 P.S.I. |
| | | |

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING CIP CONCRETE 10¾ X 0.25-INCH DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 120 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 25 FT PILE LENGTHS AT BOTH ABUTMENTS.

**THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA

| A.D.T. (2024) | 40 |
|---------------|-----------|
| A.D.T. (2044) | 60 |
| DESIGN SPEED | 25 M.P.H. |

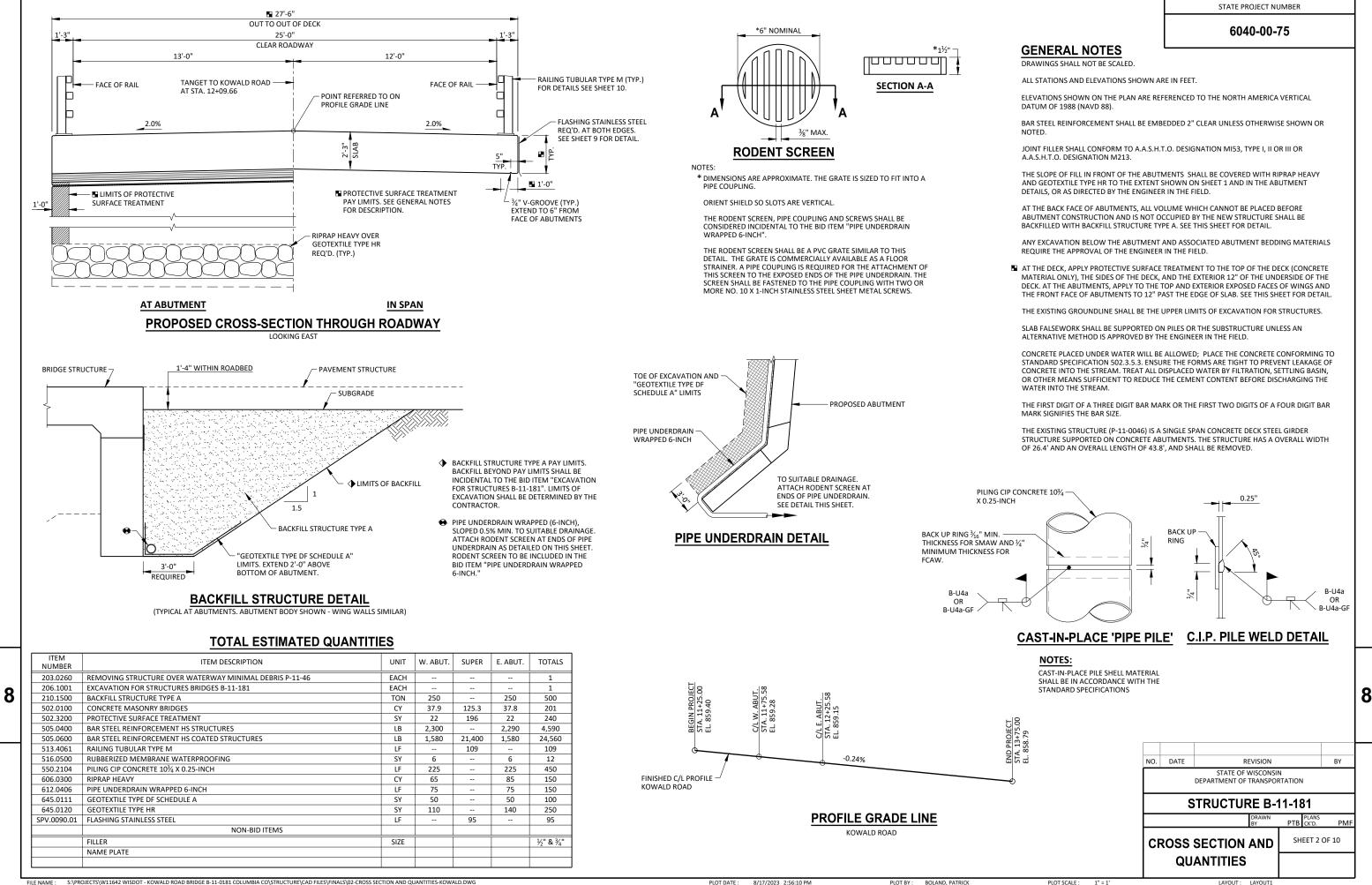
HYDRAULIC DATA

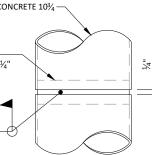
| 100 YEAR FREQUENCY | |
|-----------------------------------|--------------|
| DRAINAGE AREA | 16.1 SQ. MI. |
| Q100 TOTAL | 880 C.F.S. |
| THROUGH STRUCTURE | 880 C.F.S. |
| OVERTOPPING ROADWAY | N/A |
| VELOCITY - THROUGH STRUCTURE | 3.7 F.P.S. |
| WATERWAY AREA - THROUGH STRUCTURE | 239 SQ. FT. |
| HIGH WATER100 ELEVATION | 854.30 |
| SCOUR CRITICAL CODE | 5 |
| EROSION CONTROL | |
| Q2 | 235 C.F.S. |
| VELOCITY2 | 1.9 F.P.S. |
| HIGH WATER2 ELEVATION | 851.52 |

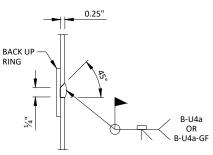
LIST OF DRAWINGS

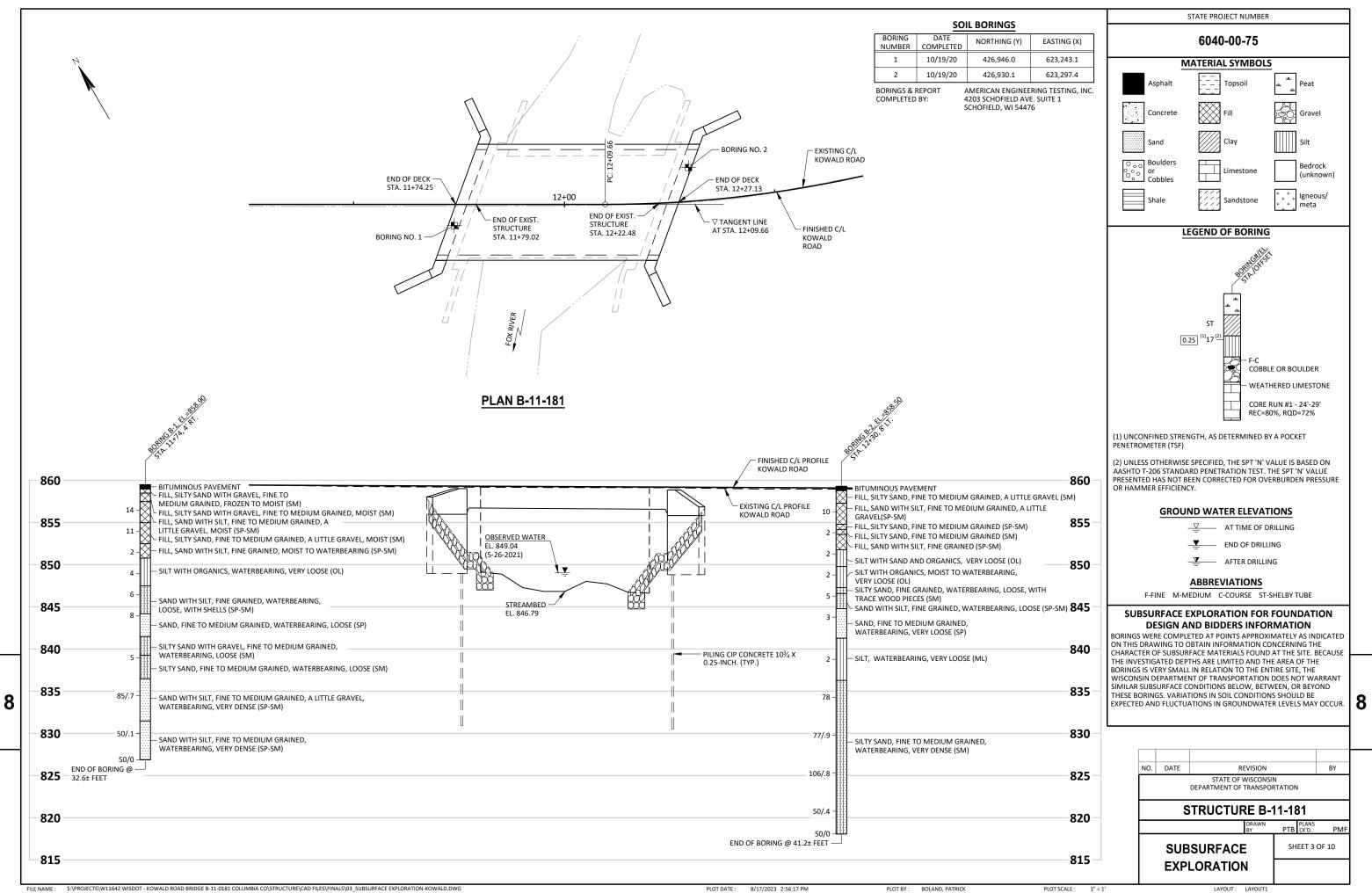
| GENERAL PLAN | 1. |
|------------------------------|------|
| CROSS SECTION AND QUANTITIES | 2. |
| SUBSURFACE EXPLORATION | 3. |
| WEST ABUTMENT | 4. |
| WEST ABUTMENT DETAILS | 5. |
| EAST ABUTMENT | 6. |
| EAST ABUTMENT DETAILS | 7. |
| SUPERSTRUCTURE | . 8. |
| SUPERSTRUCTURE DETAILS | |
| TUBULAR RAILING TYPE M | 10. |
| | |

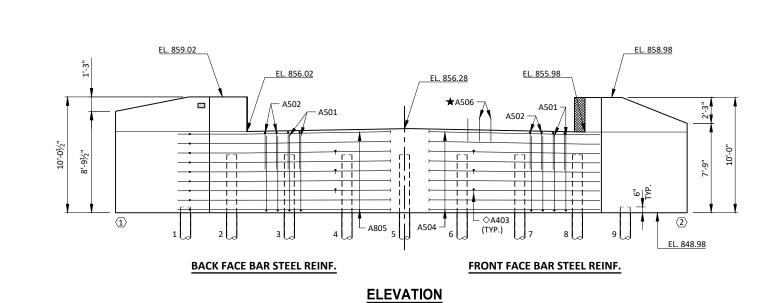
| al adda | | | | | | |
|---|--------------------------------|---|--------------------------------------|--|--------------------|---|
| CONS | NO. DATE | THE AND | SPRING | GUNRISE D GREEN, W E: (608) 58 JewellAsso | /I 53588 8-7484 | 8 |
| ATRICK BOLAND 5-36303 | ACCEPTED | STATE OF V DEPARTMENT OF T | | | 8/23 DATE | |
| | STRUCTURE B-11-181 | | | | | |
| PAL ENGLI | COUNTY DESIGN SPEC. AASI | COLUMBIA | TOWN/ CITY / V | ILLAGE | SCOTT | |
| TIM | DESIGNED BY PTE | DESIGN CK'D. PMF | DRAWN BY | PLANS CK'D. | PMF | |
| BRIDGE OFFICE CONTACT AARON BONK, PE (608) 261-0261 | GEN | ERAL PLA | N - | SHEET 1 | OF 10 | |
| PLOT SCALE : 1" = 1' | | LAYOUT : | LAYOUT1 | | | |











16'-7"

C/L KOWALD ROAD -

1'-0

TYP.

▲½"

A501

4'-5"

2'-11"

11"

1'-11"_

FILLER

★A506 0-

- EDGE OF SLAB

16'-11"

C/L KOWALD ROAD

- A502 🛛 🗘 A403 🦳 A805

-02

Δ50*1*

12 SPA. @ 1'-0" = 12'-0"

3 SPA. @ 4'-0" = 12'-0"

16 SPA. @ 1'-0" = 16'-0"

3 SPA. @ 5'-0" = 15'-0"

G,

13'-8½"

14'-7'

6'-4¹/2"

1'-5"

7'-5¹⁄/;"

2'-1½"

★ A506

SPACING

◇A403

SPACING

PILE

SPACING

SPACING A501 & A502

C/L BEARING

& PILES

2'-0"

16'-9"

EDGE OF SLAB

▲¹⁄3'

FILLER

A805

€

3'-1"

2'-1"

1'-1"

14'-9"

STA. 11+75.58

15'-8"

STA. 11+75.58

- 4'-4" I AP

ēΘ

B.F

- F F

3 SPA. @ 4'-0" = 12'-0"

16 SPA. @ 1'-0" = 16'-0"

3 SPA. @ 5'-0" = 15'-0"

13 SPA. @ 1'-0" = 13'-0"

Ð

17'-1"

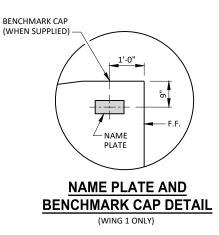
F.F

34'-0"

PLAN

2'-0" 2'-0"

LAYOUT



1.5 1 RIPRAP HEAVY

ABUTMENT.

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.
- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP & HOLD ¹/₈" BELOW SURFACE OF CONCRETE)
- ★ A506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS TAKEN ITS INITIAL SET. EMBED BAR 1'-0".
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."
- ♦ ALTERNATE THE POSITION OF THE 90° AND THE 180° BENDS AT EACH VERTICAL LAYER OF TIES.



S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\04 ABUTMENTS-KOWALD.DW

7'-1'

 $\langle 1 \rangle$

8'-2"

2'-1½"

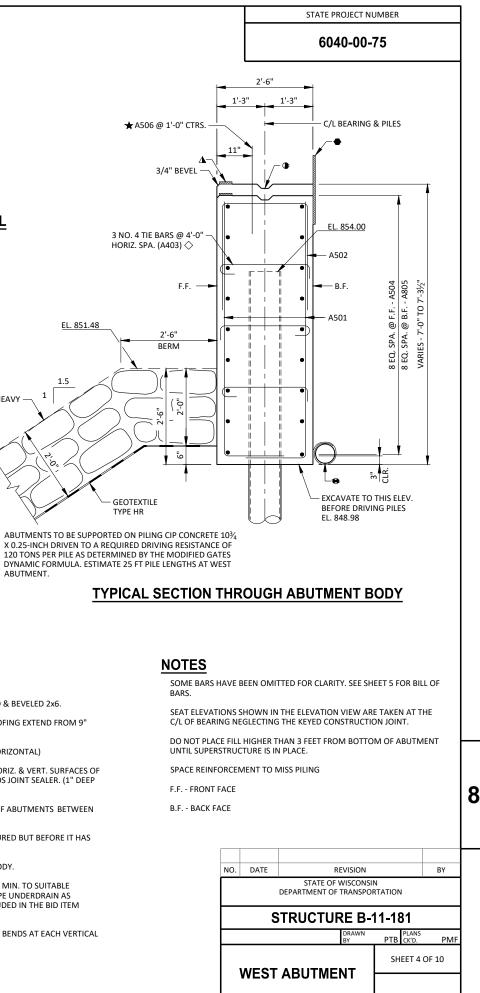
"7-'6

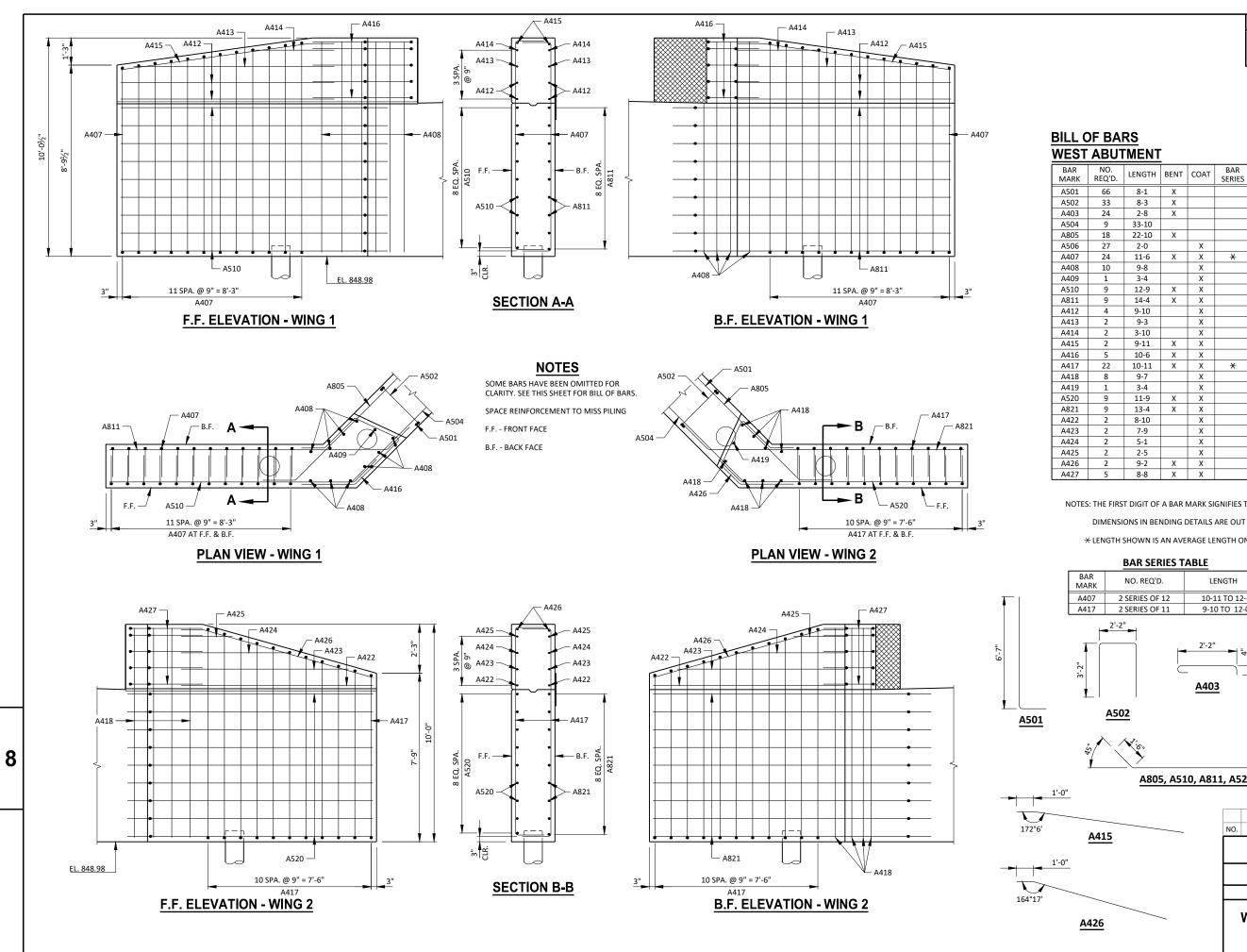
C/L BEARING

& PILES

8

2'-0"





STATE PROJECT NUMBER

6040-00-75

| | 2 | 5-1 | | Х | | WING 2- HORIZ F.F. & B.F. | |
|------|------------------------|-------------------------|-----------|---------------|-----------|--|---|
| | 2 | 2-5 | | Х | | WING 2- HORIZ F.F. & B.F. | |
| | 2 | 9-2 | X | X | | WING 2 - HORIZ F.F. & B.F TOP | |
| | 5 | 8-8 | Х | X | | WING 2 - HORIZ TOP | |
| | DIMENSI | ONS IN BEI | NDING [| DETAILS | ARE OUT T | HE BAR SIZE. TO OUT OF BAR. ILY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. | |
| | | BAR SEF | | | | 1'-4" | |
| ЗA | NR . | | | | NCTU | | |
| 1A | RK | NO. REQ'D | | | NGTH | × 2'.4" | |
| _ | | SERIES OF | | | 1 TO 12-1 | 135°-/ | |
| ۹4 | | SERIES OF | 11 | 9-10 |) TO 12-0 | | |
| | 2'-2 | | | | | 135° × | |
| Ţ | | | + | 2'-2" | | 2'-6" | |
| Ī | | | | | 4 | <u>A416</u> | |
| 1 | | | \subset | - | | | |
| | , | | | A403 | 3 | | |
| 1 | | I | | | - | 70° 70° 135° | |
| | A50 | 2 | | | | <u>1'-4"</u> | |
| | | | | | | A407 & A417 | |
| | | X'6. | | | | 2'-6" | |
| | in / .՝ | `` | | | | A427 | 8 |
| 10. | */ \ | <u> </u> | | | | | |
| 10. | | <u> </u> | | | | | 0 |
| 10 | */ • | <u></u> | 5, A51 | 0, A81 | 1, A520 | 0 & A821 | 0 |
| 72. | */ | <u></u> | 5, A51 | 0, A81 | .1, A52(| 0 & A821 | 0 |
| 10. | */ | <u></u> <u>A80</u> ! | 5, A51 | 0, A81 | .1, A52(| 0 & A821 | 0 |
| 72 | */ | <u>A80</u> ! | 5, A51 | .0, A81 | | | 0 |
| 75 | A415 | <u>A80</u> ! | 5, A51 | 0, A81 | | DATE REVISION BY | 0 |
| | */ y <u>A415</u> | <u>A80</u> ! | 5, A51 | 0, A81 | | DATE REVISION BY STATE OF WISCONSIN | 0 |
| 46. | ¥∕ ¥ <u>A415</u> | <u>A80</u> ! | 5, A51 | 0, A81 | | DATE REVISION BY | 0 |
| | <u>A415</u> | <u>A80</u> ! | 5, A51 | 0, A81 | | DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | 0 |
| 40. | A415 | <u>A80</u> ! | 5, A51 | <u>0, A81</u> | | DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 | 0 |
| - V- | A415 | <u>A80</u> ! | 5, A51 | <u>0, A81</u> | | DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | 0 |
| | <u>A415</u> | <u>A80</u> | 5, A51 | <u>0, A81</u> | NO. | DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 BY PTB CK'D. PMF | 0 |
| _ | <u>A415</u> 426 | <u>A80</u> | 5, A51 | <u>0, A81</u> | NO. | DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 DRAWN IPLANS | 0 |

WEST ABUTMENT

1,580 LB (COATED) 2,300 LB (UNCOATED)

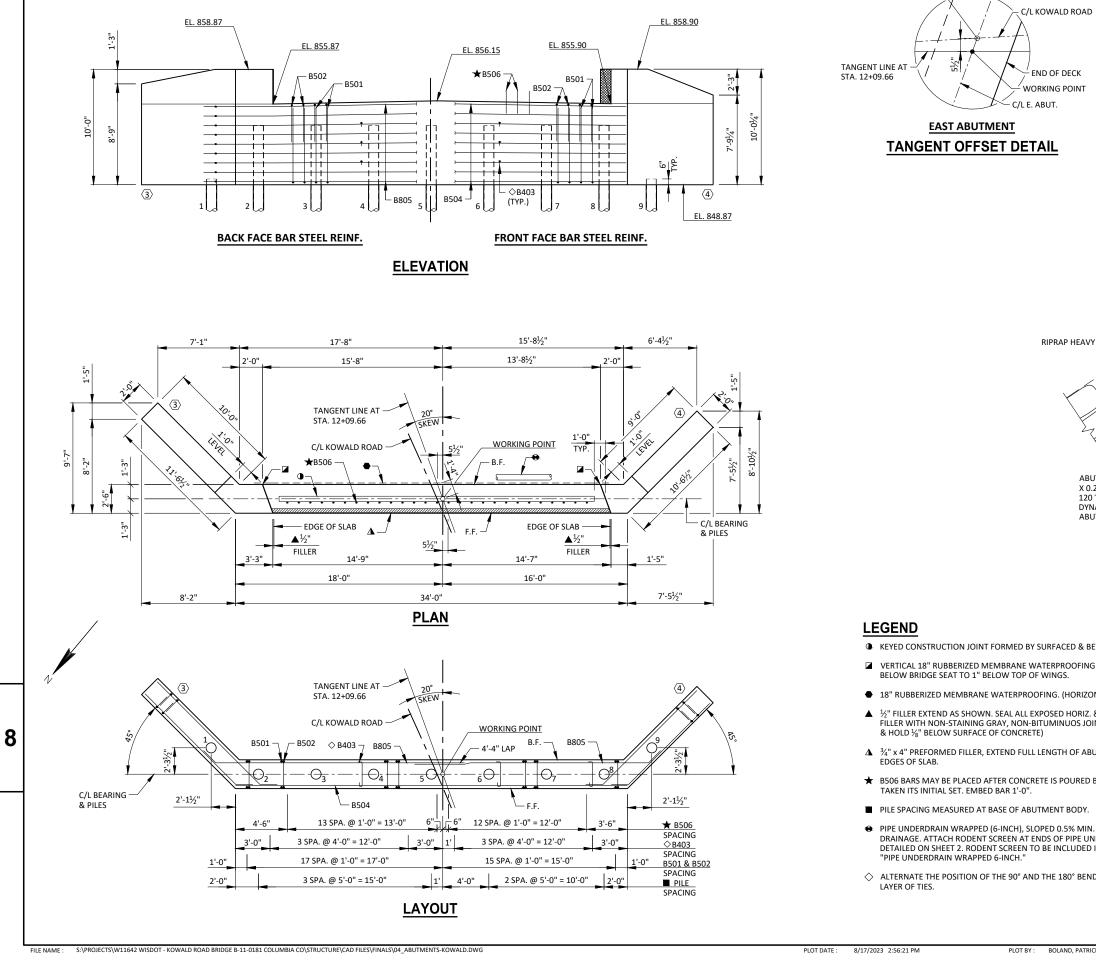
LOCATION

BODY - VERT. - F.F & B.F. BODY - VERT. - TOP

PLOT SCALE : 1" = 1'

LAYOUT W ABUT DETAILS

DETAILS



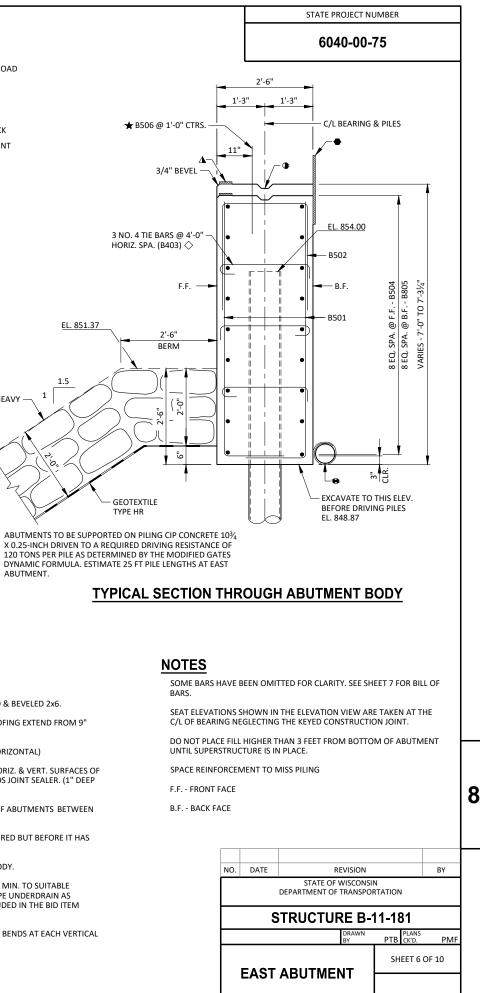
1.5

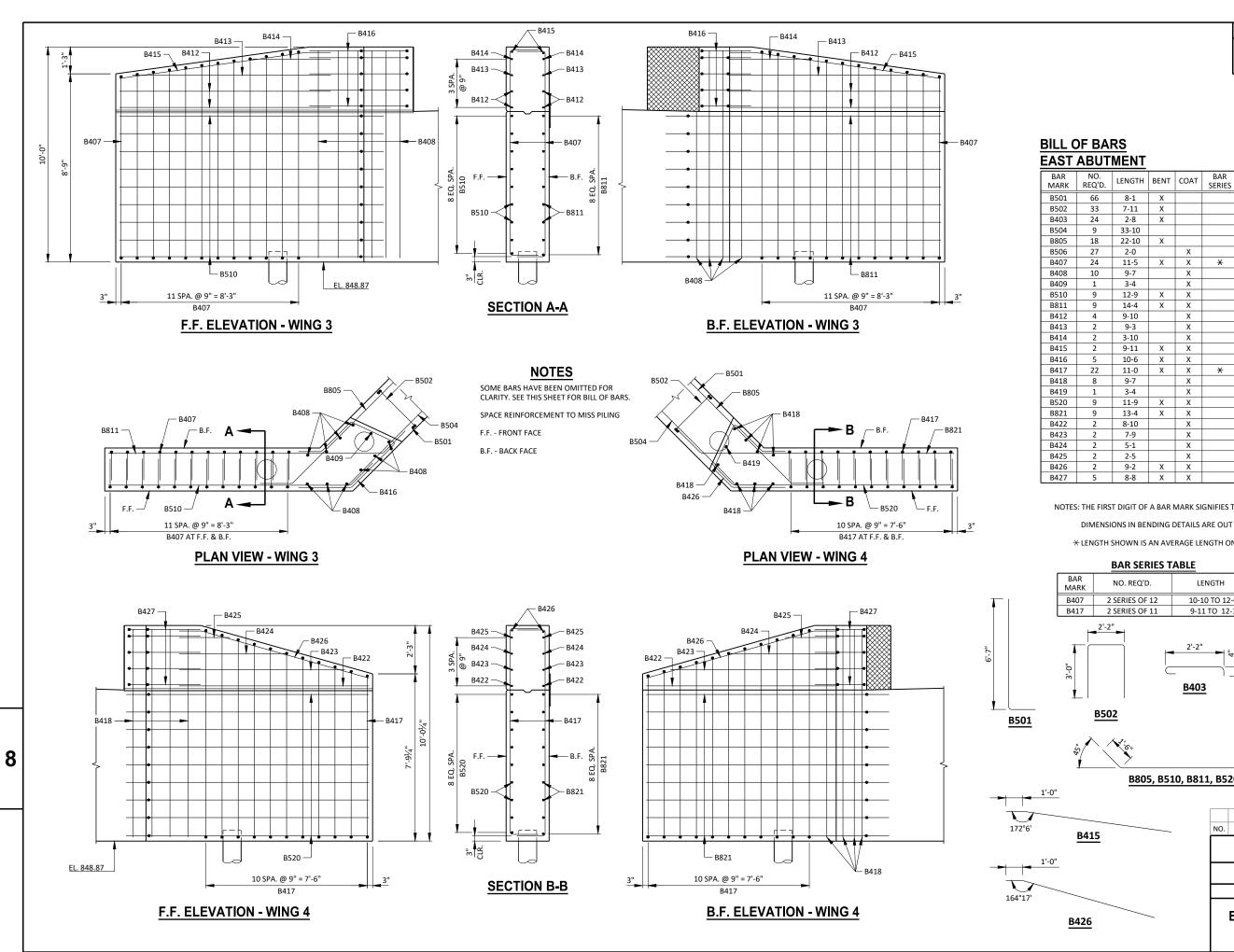
ABUTMENT.

KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6.

STA. 12+25.76

- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM 9" BELOW BRIDGE SEAT TO 1" BELOW TOP OF WINGS.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. (HORIZONTAL)
- ▲ ½" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINUOS JOINT SEALER. (1" DEEP
- ${\bf \Delta}_{\rm N}$ x 4" preformed filler, extend full length of abutments between edges of slab.
- ★ B506 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE IT HAS
- PILE SPACING MEASURED AT BASE OF ABUTMENT BODY.
- PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 2. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM
- ♦ ALTERNATE THE POSITION OF THE 90° AND THE 180° BENDS AT EACH VERTICAL





FILE NAME : S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\04_ABUTMENTS-KOWALD.DV PLOT DATE : 8/17/2023 2:56:22 PM PLOT BY : BOLAND, PATRICK

STATE PROJECT NUMBER

6040-00-75

| _ | 24 | 2-8 | X | | | TIE BA | | | | | | |
|------|------------|--------------|-----------|----------|------------|---------|----------------------------------|--------------|-----------------------------------|---|----------|--|
| - | 9 | 33-10 | v | | | | HORIZ F.F. | | | | | |
| + | 18 27 | 22-10 2-0 | Х | x | | | HORIZ B.F. | : | | | | |
| + | 27 | 11-5 | х | X | × | - | 3 - VERT F.F. & | | | | | |
| + | 10 | 9-7 | | X | | | 3 - VERT. | | | | | |
| | 1 | 3-4 | | X | | | 3 - VERT TOP | | | | | |
| | 9 | 12-9 | Х | х | | | 3 - HORIZ F.F. | | | | | |
| | 9 | 14-4 | Х | х | | | 3 - HORIZ B.F. | | | | | |
| T | 4 | 9-10 | | Х | | | 3 - HORIZ F.F. 8 | | | | | |
| | 2 | 9-3 | | X | | | 3- HORIZ F.F. & | | | | | |
| + | 2 | 3-10 | N N | X | | | 3- HORIZ F.F. & | | | | | |
| + | 2 | 9-11 | X | X | | | 3 - HORIZ F.F. 8 | ι в.г 10 | 14 | | | |
| + | 5 22 | 10-6 11-0 | X X | X X | * | | 3 - HORIZ TOP 4 - VERT F.F. & | R F | | | | |
| + | 8 | 9-7 | ^ | x | ~ | | 4 - VERT F.F. & | 5.1. | | | | |
| + | 1 | 3-4 | | X | | | 4 - VERT TOP | | | | | |
| | 9 | 11-9 | Х | X | | | 4 - HORIZ F.F. | | | | | |
| | 9 | 13-4 | Х | х | | | 4 - HORIZ B.F. | | | | | |
| | 2 | 8-10 | | Х | | WING | 4 - HORIZ F.F. 8 | k B.F. | | | | |
| T | 2 | 7-9 | | х | | | 4- HORIZ F.F. & | | | | | |
| | 2 | 5-1 | | X | | | 4- HORIZ F.F. & | | | | | |
| _ | 2 | 2-5 | N. | X | | | 4- HORIZ F.F. & | | 20 | | | |
| + | 2 | 9-2 | X | X X | | | 4 - HORIZ F.F. 8 | ι В. Η. – ГС | JF | | | |
| | Э | 8-8 | X | ^ | | WING | 4 - HORIZ TOP | | | | | |
| | | | | | | | | | | | | |
| ES: | THE FIRS | T DIGIT OF | A BAR I | MARK SIG | NIFIES TH | HE BAR | SIZE. | | | | | |
| | | | | | | -0.01- | | | | | | |
| | DIIVIENSI | ONS IN BEI | NDINGL | FIAILS A | | 0 001 | OF BAK. | | | | | |
| × | LENGTH | SHOWN IS | AN AVE | RAGE LEN | IGTH ON | LY. SEE | BAR SERIES TABLE | E FOR AC | TUAL LENGTH | IS. | | |
| | | | | | | | 1'_4" | | | | | |
| | | BAR SEF | RIES T/ | ABLE | | | | | | | | |
| BAF | | NO. REQ'D |). | LEI | NGTH | | · | | | | | |
| IARK | | | | | | | Ň D | -4" | | | | |
| 340 | | SERIES OF | | | 0 TO 12-0 | | | 135 | » ^۲ ^{110°} - | J. | | |
| 841 | / 2 | SERIES OF | 11 | 9-11 | TO 12-1 | | | | | | | |
| | 2'-2 | | | | | | | | 135° / | in the second | | |
| _ | | | | | | | | | | r | | |
| ¥. | | | + | 2'-2" | | I | | | 2'-6" | | | |
| | | | | | 1 | | | | <u>B416</u> | | | |
| 2 | | | \subset | | _ (| ŀ | | | | | | |
| ļ | | | | B403 | 1 | | | | ~ ~ ~ | | | |
| 1 | _ | I | | | | | | 10 | 70 10, | 250 | | |
| | B50 | 2 | | | | | 1'-4" | \sim | $/$ $^{\prime \prime}$ \sim^{1} | 35° | <u> </u> | |
| | 050 | <u> </u> | | | | | 1'-4" | ŀ |)110° | | | |
| | | | | | | B | 107 & B417 | 2 | 135° | | | |
| ĉ | <u>/ /</u> | X's. | | | | | | | 2'-6" | _ | | |
| 45 | 7 | Š | | | | | | | B427 | | 8 | |
| 1 | | \sim | | | | | | | | | | |
| | | B80 | 5, B51 | 0, B81 | 1, B520 |) & B8 | 21 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | _ | | | | | | | | | | | |
| B415 | | | NO. | DATE | RI | EVISION | | BY | | | | |
| | | | | | STATE OF V | | N | | | | | |
| | | | | | 1 | | DEPARTMENT OF | | | | | |
| | | | | | L | | | | | | | |
| | | | | | 1 | 5 | TRUCTUR | RE B- | 11-181 | | | |
| | | | | | — | | | DRAWN | PLANS | | | |
| - | _ | | | | L | | | BY | PTB CK'D. | PMF | | |
| | | <u> </u> | | | _ | | | | SHEET 7 | OF 10 | | |
| B4 | 26 | _ | <u> </u> | | I E | AST | ABUTMEN | T | SPIEET / | OF 10 | | |
| | | | | | 1 | | | | | | | |

BILL OF BARS EAST ABUTMENT

1,580 LB (COATED) 2,290 LB (UNCOATED)

LOCATION

BODY - VERT. - F.F & B.F. BODY - VERT. - TOP

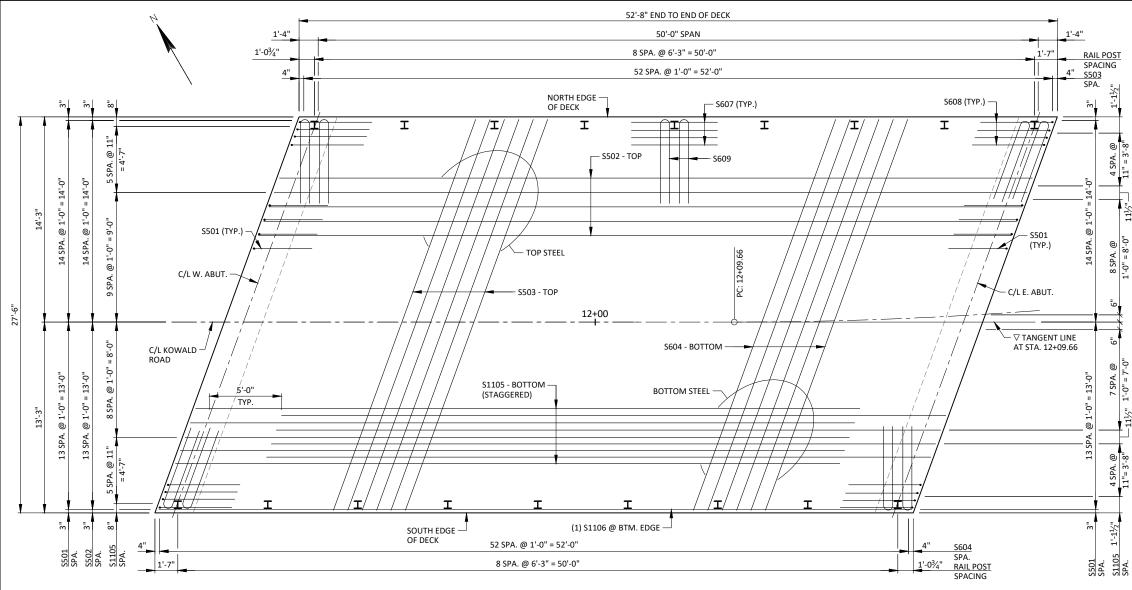
TIE BARS

PLOT SCALE : 1" = 1'

B426

LAYOUT : E ABUT DETAILS

DETAILS



PLAN

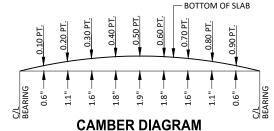
TOP OF DECK ELEVATIONS

| | C/L W. ABUT. | 0.10 PNT. | 0.20 PNT. | 0.30 PNT. | 0.40 PNT. | 0.50 PNT. | 0.60 PNT. | 0.70 PNT. | 0.80 PNT. | 0.90 PNT. | C/L E. ABUT. |
|---------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| N. EDGE | 858.98 | 858.97 | 858.96 | 858.94 | 858.93 | 858.92 | 858.91 | 858.89 | 858.89 | 858.88 | 858.87 |
| R/L | 859.28 | 859.26 | 859.25 | 859.24 | 859.23 | 859.22 | 859.20 | 859.19 | 859.18 | 859.16 | 859.15 |
| S. EDGE | 859.02 | 859.01 | 859.00 | 858.99 | 858.98 | 858.96 | 858.95 | 858.94 | 858.93 | 858.91 | 858.90 |

SURVEY TOP OF DECK ELEVATIONS

| | W. ABUT. | 0.50 PT. | E. ABU |
|-----------------------|----------|----------|--------|
| NORTH EDGE OF DECK | | | |
| TANGENT LINE | | | |
| SOUTH EDGE OF DECK | | | |

PRIOR TO RELEASING SLAB FASLEWORK, TAKE TOP OF DECK ELEVATIONS AT THE C/L OF THE ABUTMENTS AND AT 0.50 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG THE EDGE OF DECK AND CENTER LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPAN AS SHOWN TO PROVIDE FOR THEORETICAL DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB OR CENTER LINE FOLLOW THIS PROCEDURE: TOP OF SLAB ELEVATION AT FINAL GRADE -SLAB THICKNESS +CAMBER +FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (COMPUTED BY CONTRACTOR) =TOP OF SLAB FALSEWORK ELEVATION.

NOTES

NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-11-181 PLANS PTB CK'D. PM SHEET 8 OF 10 SUPERSTRUCTURE

SUPPORT ALTERNATE TOP TRANSVERSE BARS IN SLAB BY INDIVIDUAL BAR CHAIRS AT APPROX. 3'-0" CENTERS. SUPPORT BOTTOM LONGITUDINAL BARS BY CONTINUOUS BAR CHAIRS AT APPROX. 4'-0" CENTERS. PLACE TRANSVERSE BARS PARALLEL TO THE CENTERLINE OF SUBSTRUCTURE UNITS. THE SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+). SEE SHEET 1 FOR HORIZONTAL CURVE DATA MEASURED ALONG BRIDGE REFERENCE LINE

6040-00-75

BILL OF BARS SUPERSTRUCTURE

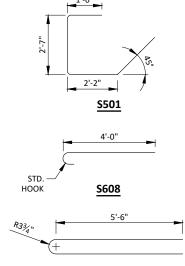
21,400 LB (COATED)

| BAR MARK | NO. REQ'D. | LENGTH | BENT | COAT | LOCATION |
|-------------|---------------|--------|------|------|--------------------------------|
| S501 | 56 | 8-6 | Х | X | ENDS OF DECK |
| S502 | 28 | 52-3 | | X | SLAB - TOP - LONGIT. |
| S503 | 59 | 28-10 | | X | SLAB - TOP - TRANS. & AT ABUT. |
| S604 | 53 | 28-10 | | X | SLAB - BOTTOM - TRANS. |
| S1105 | 55 | 46-2 | | Х | SLAB - BOTTOM - LONGIT. |
| S1106 | 2 | 52-3 | | X | SLAB - BOTTOM - LONGIT EDGES |
| S607 | 56 | 6-0 | | Х | RAIL POSTS - INTERIOR |
| S608 | 16 | 4-8 | х | Х | RAIL POSTS - CORNERS |
| S609 | 36 | 12-0 | Х | X | RAIL POSTS |

NOTES: THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

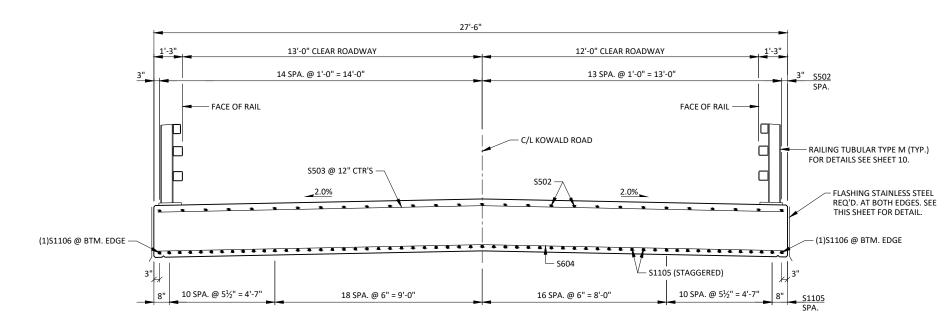
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

SOME BARS HAVE BEEN OMITTED FOR CLARITY.

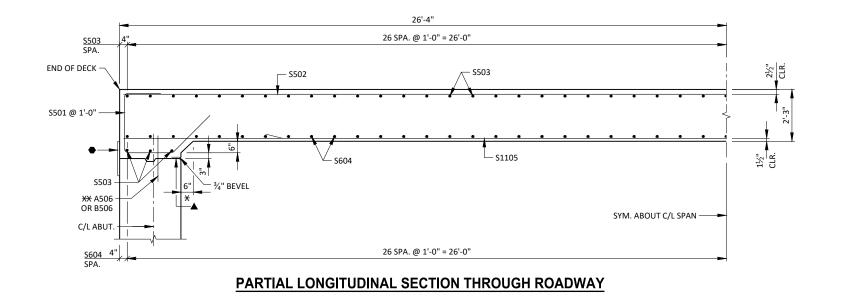




LAYOUT : SUPERSTRUCTUR







THICKNESS AB

NOTES:

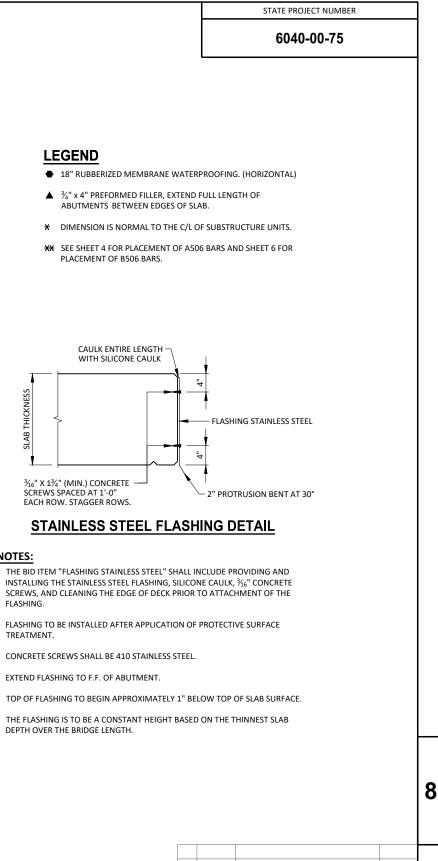
FLASHING.

TREATMENT.

8

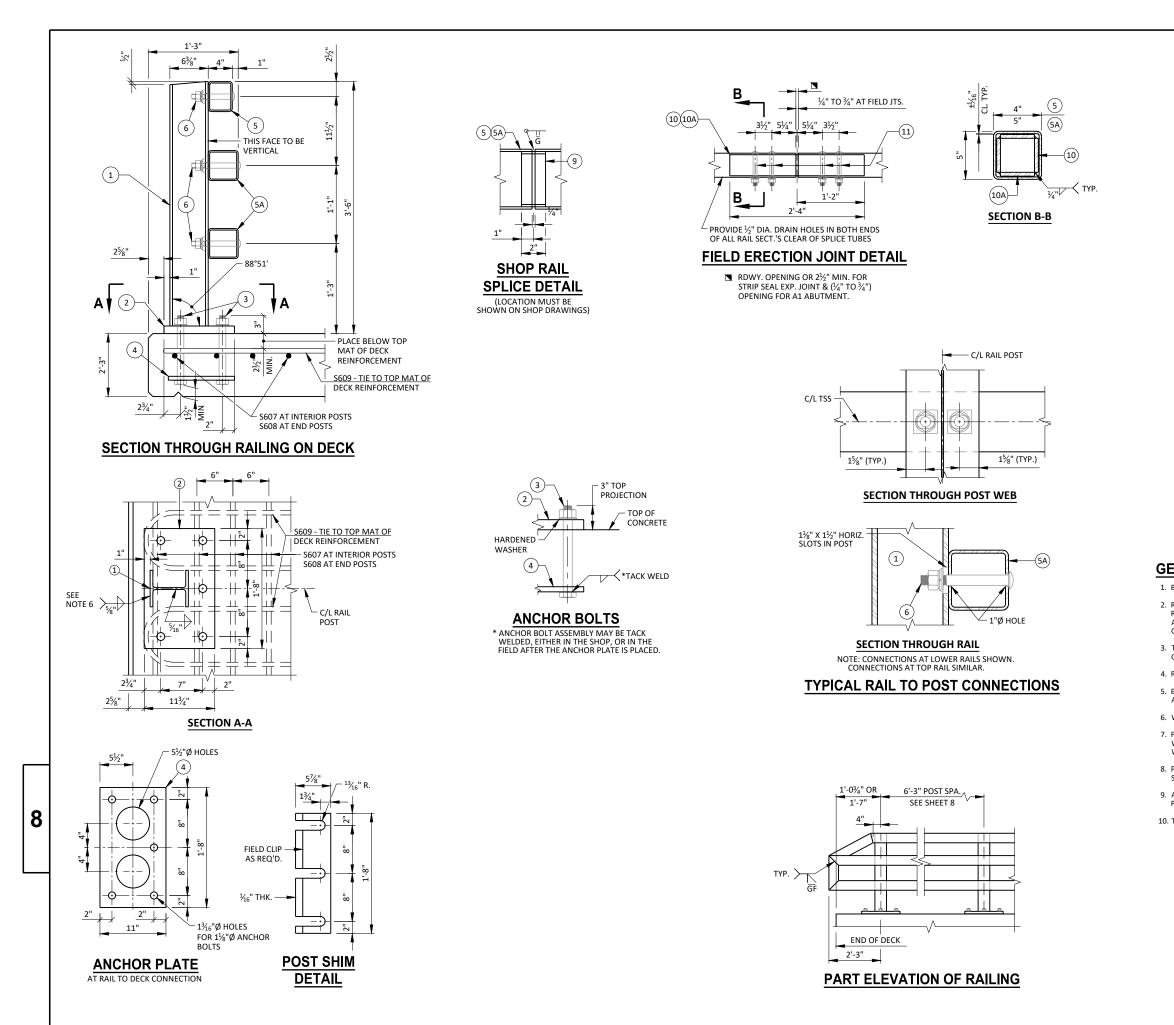
FILE NAME :

S:\PROJECTS\W11642 WISDOT - KOWALD ROAD BRIDGE B-11-0181 COLUMBIA CO\STRUCTURE\CAD FILES\FINALS\08_SUPERSTRUCTURE-KOWALD.DW



| NO. | BY | | | | | | | | | |
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| | | STATE OF DEPARTMENT O | F WISCONSI F TRANSPOR | - | | | | | | |
| STRUCTURE B-11-181 | | | | | | | | | | |
| | | | DRAWN BY | PLANS PTB CK'D. | PMF | | | | | |
| S | UPER | STRUCT | SHEET 9 | OF 10 | | | | | | |
| | D | | | | | | | | | |

LAYOUT SUPER DETAILS



STATE PROJECT NUMBER

6040-00-75

LEGEND

- (1) W6x25 WITH 1½" x 1½" HORIZONTAL SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- (2) PLATE $1\!\!/_4"x113\!\!/_4"x1'-8"$ with $1\!\!/_{16}"$ dia. Oversized holes for anchor bolts no. 3. Weld to no. 1 as shown.
- (3) ASTM A449 1½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-9" LONG AT ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG. USE 10%" LONG AT ALL OTHER LOCATIONS. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTABILITY.)
- (5) TSS 5x4x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- $\overbrace{(5A)}$ TSS 5x5x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 6
- (9) SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- (10) ³/₈"x3⁵/₈"x2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (10A) %"x2%"x2'-4" PLATE USED IN NO. 5, %"x3%"x2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- (1) ⁷/₈" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE ¹⁵/₁₆"x1¹/₄" LONGIT. SLOTTED HOLES IN PLATE NO. 10A. AT FIELD JOINTS AND ¹⁵/₁₆"x2¹/₄" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A. PROVIDE ¹⁵/₁₆" DIA. ROUND HOLES IN TUBES NO. 5 AND NO. 5A.

GENERAL NOTES

1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN.

- RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY=50 KSI. ANCHOR PLATES AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL % TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
- 8. 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.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

| NO. | DATE | | | BY | | | | | |
|--|------|--|-------------|-------|----------------|------|--|--|--|
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | | | | | | | |
| STRUCTURE B-11-181 | | | | | | | | | |
| | | | DRAWN BY | PTB 0 | PLANS CK'D. | PMF | | | |
| TUBULAR RAILING TYPE M | | | | SHEE | ET 10 O | F 10 | | | |
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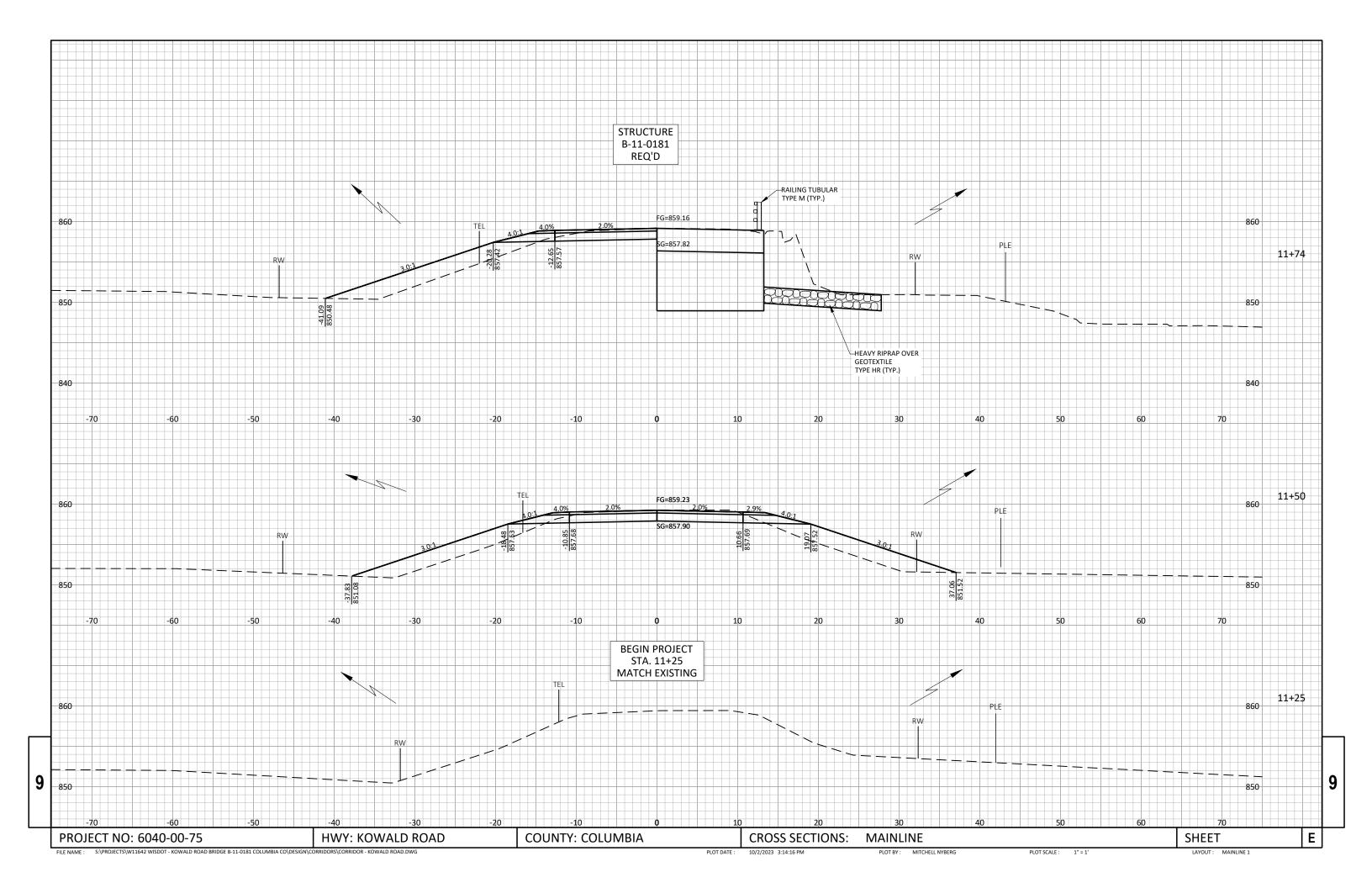
LAYOUT : LAYOUT (WITHOUT BEAM GUARD

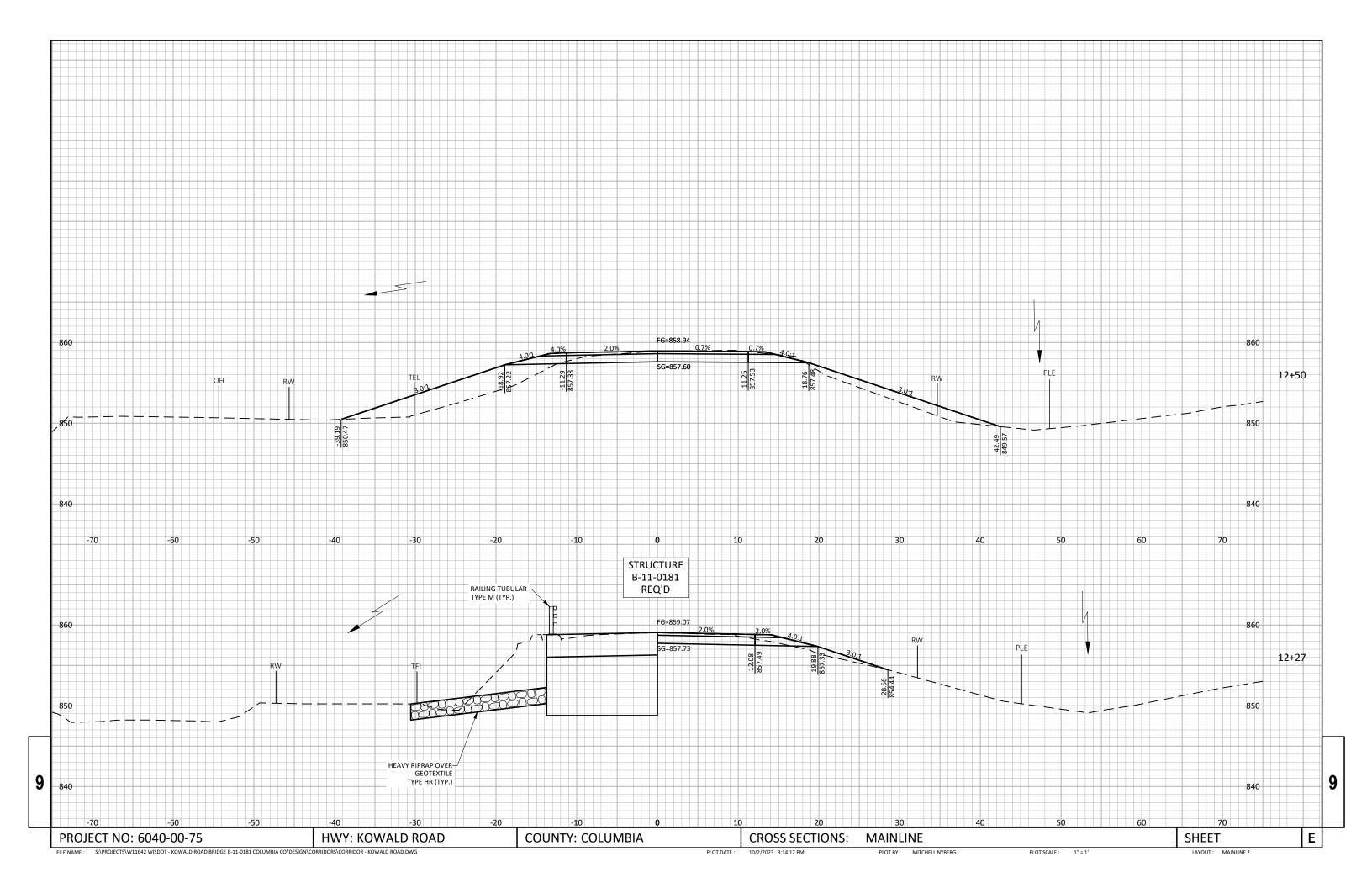
| CUT | FILL | CUT NOTE 1 | FILL NOTE 2 | FILL (25%) NOTE 3 | CUT 1.00 NOTE 1 | FILL | FILL (25%) NOTE 3 | MASS ORDINATE NOTE 4 |
|-----|---|--|--|---|---|---|--|---|
| 0 | 0 | 15 | 35 | 44 | 15 | 35 | 44 | -29 |
| 32 | 75 | 28 | 67 | 83 | 43 | 102 | 127 | -83 |
| 32 | 75 | 0 | 0 | 0 | 43 | 102 | 127 | -83 |
| 34 | 76 | 29 | 65 | 81 | 72 | 167 | 208 | -136 |
| 34 | 76 | 29 | 67 | 83 | 101 | 234 | 291 | -190 |
| 29 | 67 | 26 | 58 | 73 | 127 | 292 | 364 | -237 |
| 29 | 58 | 28 | 33 | 42 | 155 | 325 | 406 | -250 |
| 33 | 14 | 30 | 9 | 11 | 185 | 334 | 417 | -232 |
| 32 | 6 | 15 | 3 | 3 | 200 | 336 | 420 | -220 |
| 0 | 0 | 0 | 0 | 0 | 200 | 336 | 420 | -220 |
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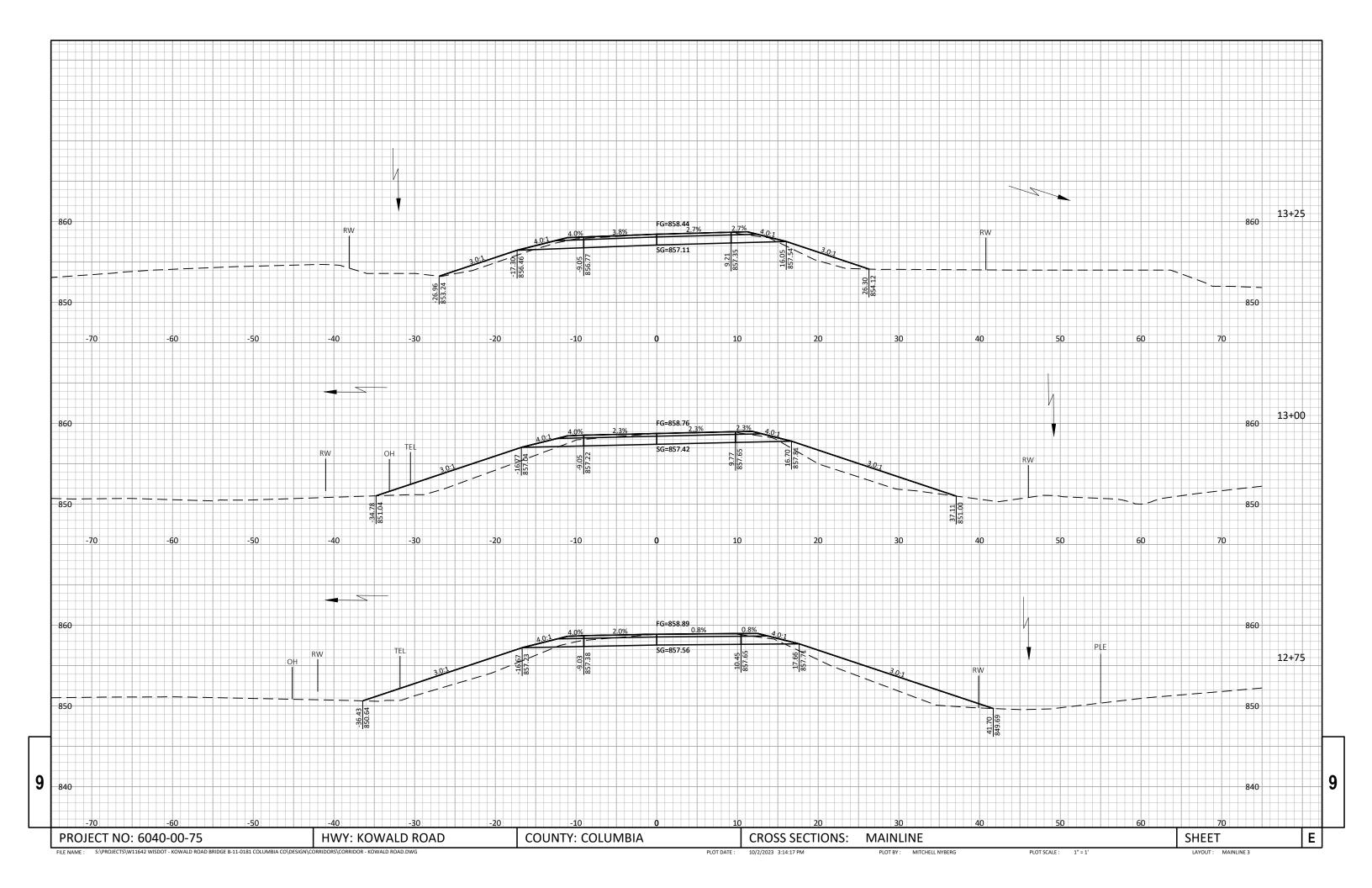
| NOTES: | |
|-------------------|---|
| 1 - CUT | CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL |
| 2 - FILL | DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME |
| 3 - FILL 25% | (UNEXPANDED FILL)*1.25 |
| 4 - MASS ORDINATE | CUT + ROCK (10%) + REDUCED MARSH (60%) - FILL (25%) |

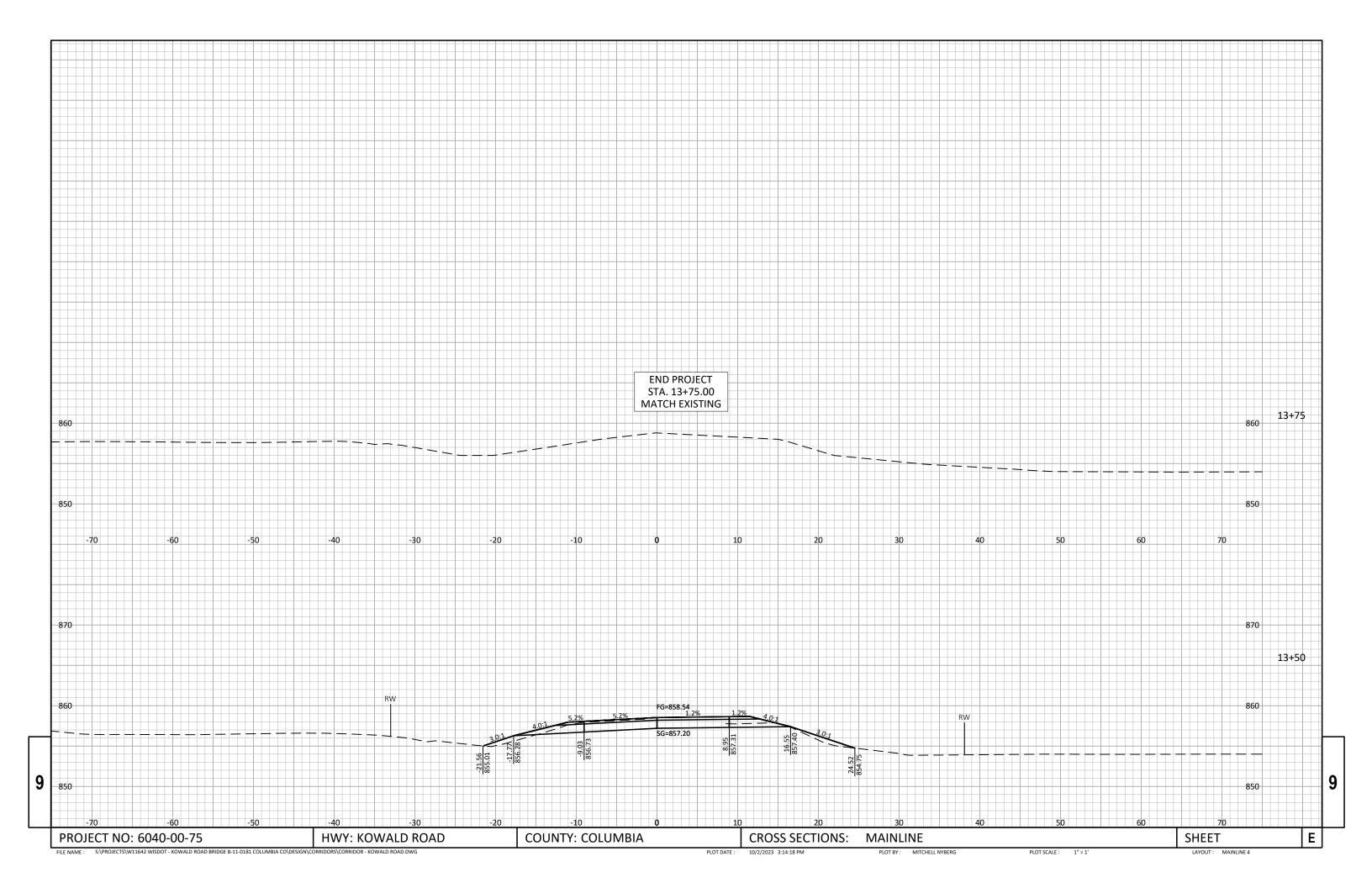
| PROJECT NO: 6040-00-75 | HWY: KOWALD ROAD | COUNTY: COLUMBIA | EARTHWORK | | |
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| 1" = 1' | LAYOUT : EARTHWORK | | |

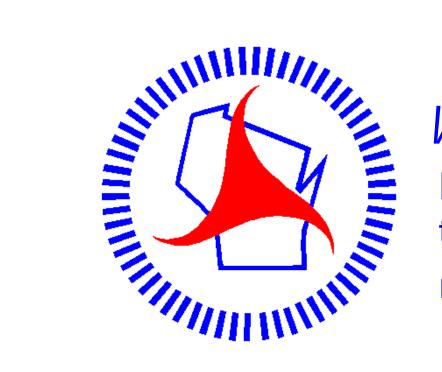








Notes



Wisconsin Department of Transportation

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