

| STATE PROJECT | FEDERAL PROJECT | |
|---------------|-----------------|----------|
| | PROJECT | CONTRACT |
| 1225-10-71 | WISC 2020541 | 1 |
| | | |
| | | |

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MANITOWOC - GREEN BAY

SCL - NCL

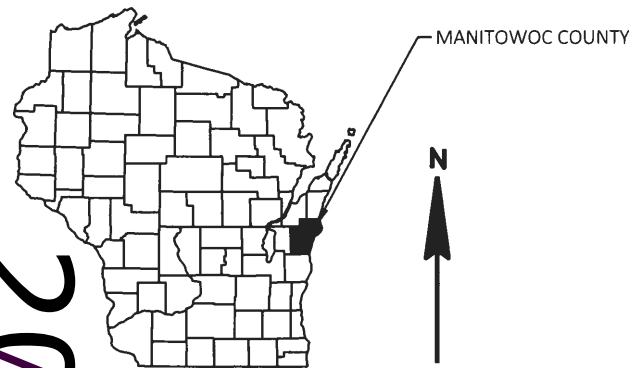
IH 43

MANITOWOC COUNTY

ORDER OF SHEETS

| | |
|--------------------------|------------------------------------|
| Section No. 1 | Title |
| Section No. 2 | Typical Sections and Details |
| Section No. 3 | Estimate of Quantities |
| Section No. 3 | Miscellaneous Quantities |
| Section No. 4 | Right of Way Plat |
| Section No. 5 | Plan and Profile |
| Section No. 6 | Standard Detail Drawings |
| Section No. 7 | Sign Plates |
| Section No. 8 | Structure Plans |
| Section No. 9 | Computer Earthwork Data |
| Section No. 9 | Cross Sections |

TOTAL SHEETS = 62



END PROJECT
STA 762+03.83

STATE PROJECT NUMBER
1225-10-71



- B-36-98
- B-36-91
- B-36-92
- B-36-86
- B-36-87
- B-36-81
- B-36-70
- B-36-71
- B-36-65
- B-36-66
- B-36-67
- B-36-68
- B-36-62
- B-36-231
- B-36-230
- B-36-110
- B-36-111
- B-36-42
- B-36-61

DESIGN DESIGNATION

| | | |
|---------------|---|------------|
| A.A.D.T. 2017 | = | 26,900 |
| A.A.D.T. 2037 | = | 31,300 |
| D.H.V. | = | 3,500 |
| D.D. | = | 58/42 |
| T. | = | 15.7% |
| DESIGN SPEED | = | 70 MPH |
| ESALS | = | 10,650,700 |

CONVENTIONAL SYMBOLS

| PLAN | | PROFILE | |
|--------------------------------|--|---|--|
| CORPORATE LIMITS | | GRADE LINE | |
| PROPERTY LINE | | ORIGINAL GROUND | |
| LOT LINE | | MARSH OR ROCK PROFILE (To be noted as such) | |
| LIMITED HIGHWAY EASEMENT | | SPECIAL DITCH | |
| EXISTING RIGHT OF WAY | | GRADE ELEVATION | |
| PROPOSED OR NEW R/W LINE | | CULVERT (Profile View) | |
| SLOPE INTERCEPT | | UTILITIES | |
| REFERENCE LINE | | ELECTRIC | |
| EXISTING CULVERT | | FIBER OPTIC | |
| PROPOSED CULVERT (Box or Pipe) | | GAS | |
| COMBUSTIBLE FLUIDS | | SANITARY SEWER | |
| MARSH AREA | | STORM SEWER | |
| WOODED OR SHRUB AREA | | TELEPHONE | |
| | | WATER | |
| | | UTILITY PEDESTAL | |
| | | POWER POLE | |
| | | TELEPHONE POLE | |

BEGIN PROJECT
STA 1052+99.43

LAYOUT
SCALE 0 6 MI

TOTAL NET LENGTH OF CENTERLINE = N/A

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), COUNTY COUNTY, NAD83 HYEAR, IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (YEAR). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

OMNI ASSOCIATES

WISCONSIN PROFESSIONAL ENGINEER

KRISTOFER R. OLSON
E-35236
APPLETON, WI

Kristofer R. Olson

7/21/20

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

| | |
|---------------------|-----------------|
| PREPARED BY | OMNI ASSOCIATES |
| Surveyor | OMNI ASSOCIATES |
| Designer | BRIAN HAEN |
| Project Manager | NE REGION |
| Regional Examiner | CHAD DEGRAVE |
| Regional Supervisor | |

APPROVED FOR THE DEPARTMENT

DATE: 7/15/20 *Brian Haen*
(Signature)

E

PROJECT ID: 1225-10-71

COUNTY: MANITOWOC

20

GENERAL NOTES

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THIS.



OTHER CONTACTS

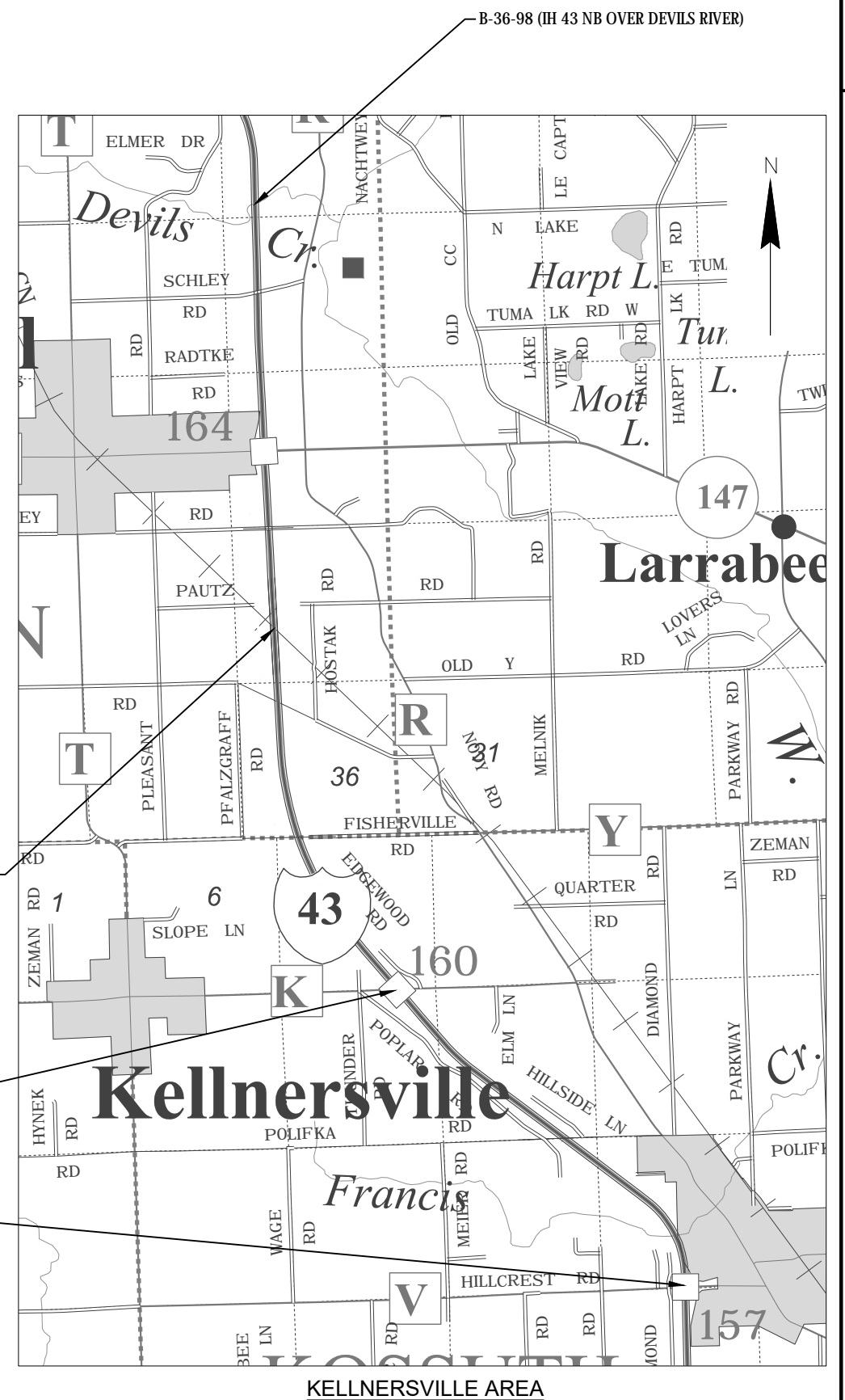
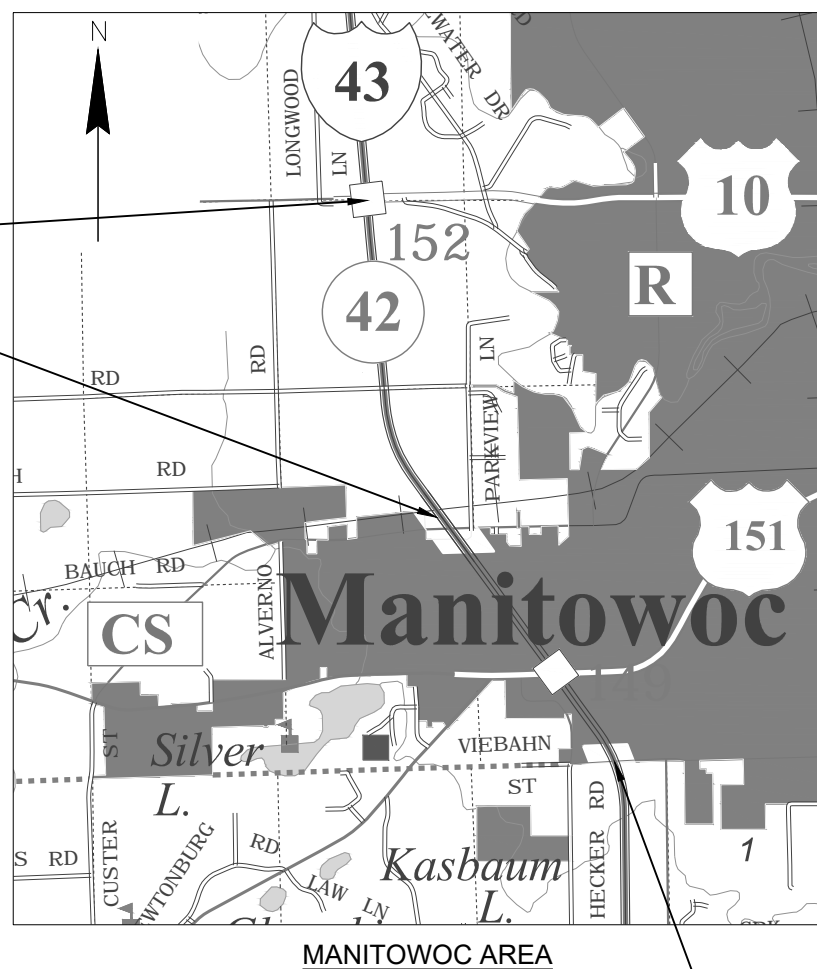
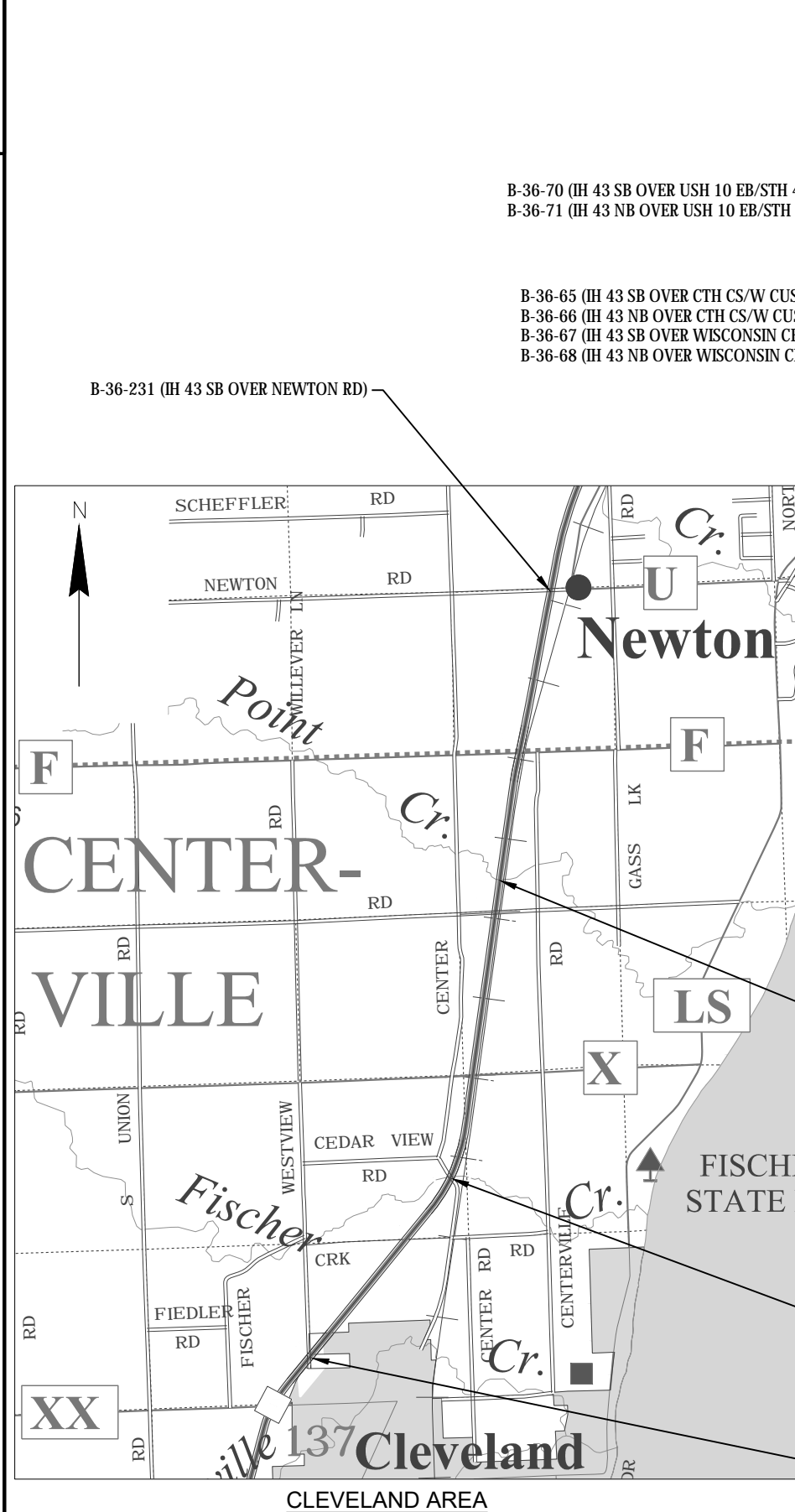
DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGIONAL HEADQUARTERS
2984 SHAWANO AVE
GREEN BAY, WI 54313
ATTN: MATT SCHAEVE
TELEPHONE: (920) 366-1544
EMAIL: matthew.schaeve@wisconsin.gov

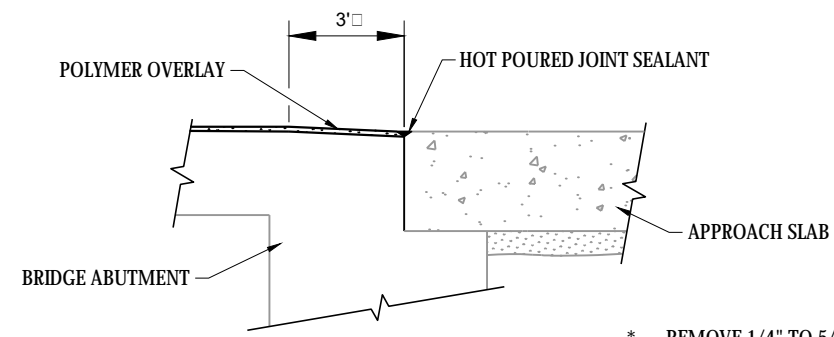
ORDER OF "SECTION 2" SHEETS

SHEET TITLE

- GENERAL NOTES
- PROJECT OVERVIEW
- TRAFFIC CONTROL



| | | | | | |
|------------------------|------------|-------------------|------------------|-------|---|
| PROJECT NO: 1225-10-71 | HWY: IH-43 | COUNTY: MANITOWOC | PROJECT OVERVIEW | SHEET | E |
|------------------------|------------|-------------------|------------------|-------|---|



* REMOVE 1/4" TO 5/16" OF CONCRETE ADJACENT TO END OF DECK AND TAPER A DISTANCE OF 3- FEET.

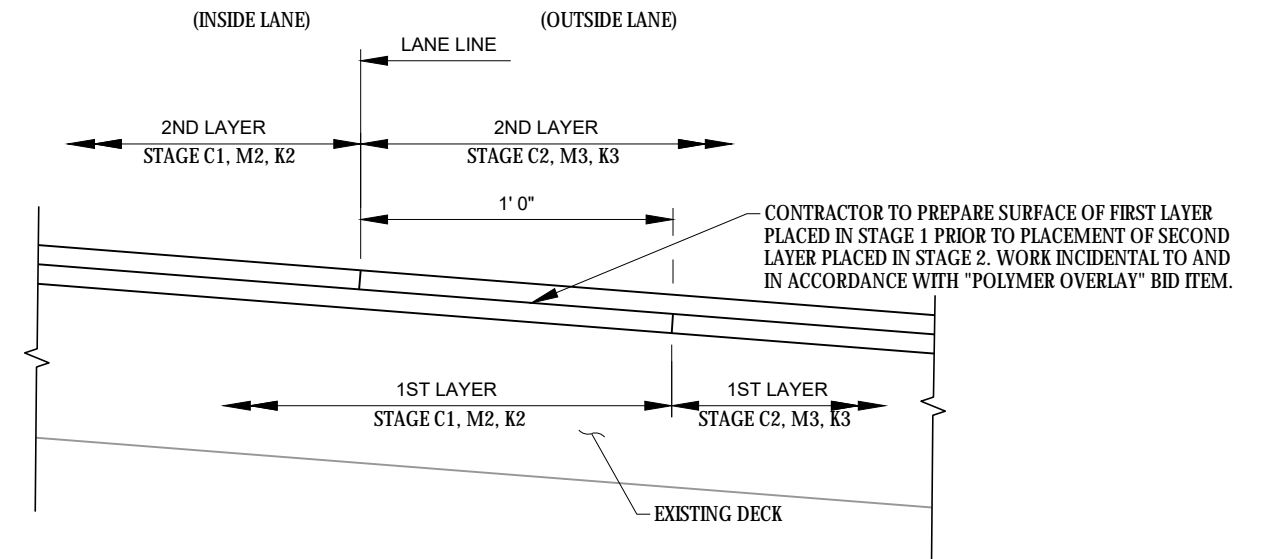
END OF DECK TRANSITIONAL AREA DETAIL

NOTES:

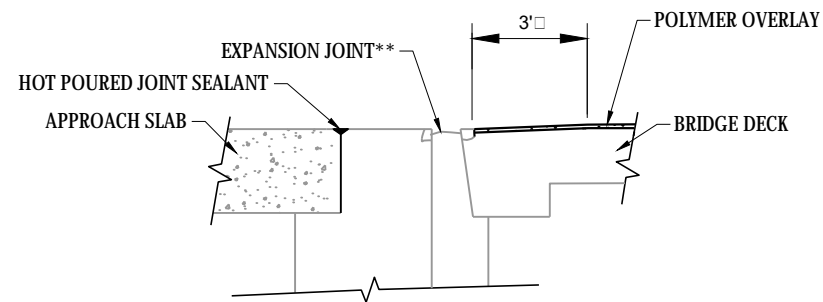
POLYMER OVERLAY TO BE PLACED FULL WIDTH COVERING PAVEMENT AND SHOULDERS.

POLYMER OVERLAY TRANSITION AREA IS INCIDENTAL TO "POLYMER OVERLAY".

MASK OFF EXISTING END JOINT AS DIRECTED BY ENGINEER.



POLYMER OVERLAY TRANSITION DETAIL
LONGITUDINAL SECTION SHOWN (TRANSVERSE SECTION SIMILAR) USE WHEN OVERLAY PLACED IN STAGES



* REMOVE 1/4" TO 5/16" OF CONCRETE ADJACENT TO EXPANSION JOINT AND TAPER A DISTANCE OF 3- FEET.

** DETAIL LOCATION IS SHOWN AT ABUTMENT JOINT BUT SHALL BE APPLIED TO ALL EXPANSION JOINTS.

TRAVERSE EXPANSION JOINT TRANSITION DETAIL

STAGE C1:

PURPOSE:

PLACE POLYMER OVERLAY ON NB STRUCTURES (INSIDE LANE)

- STRUCTURE B-36-61
- STRUCTURE B-36-111
- STRUCTURE B-36-230

PLACE POLYMER OVERLAY ON SB STRUCTURES (INSIDE LANE)

- STRUCTURE B-36-42
- STRUCTURE B-36-110
- STRUCTURE B-36-231

TRAFFIC HANDLING:

NORTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
 SOUTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
 ALL RAMP OPEN TO TRAFFIC
 USE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" AND
 "TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LEFT LANE CLOSURE"

RESTRICTIONS:

NORTHBOUND INSIDE LANE CLOSED
 SOUTHBOUND INSIDE LANE CLOSED

STAGE C2:

PURPOSE:

PLACE POLYMER OVERLAY ON NB STRUCTURES (OUTSIDE LANE)

- STRUCTURE B-36-61
- STRUCTURE B-36-111
- STRUCTURE B-36-230

PLACE POLYMER OVERLAY ON SB STRUCTURES (OUTSIDE LANE)

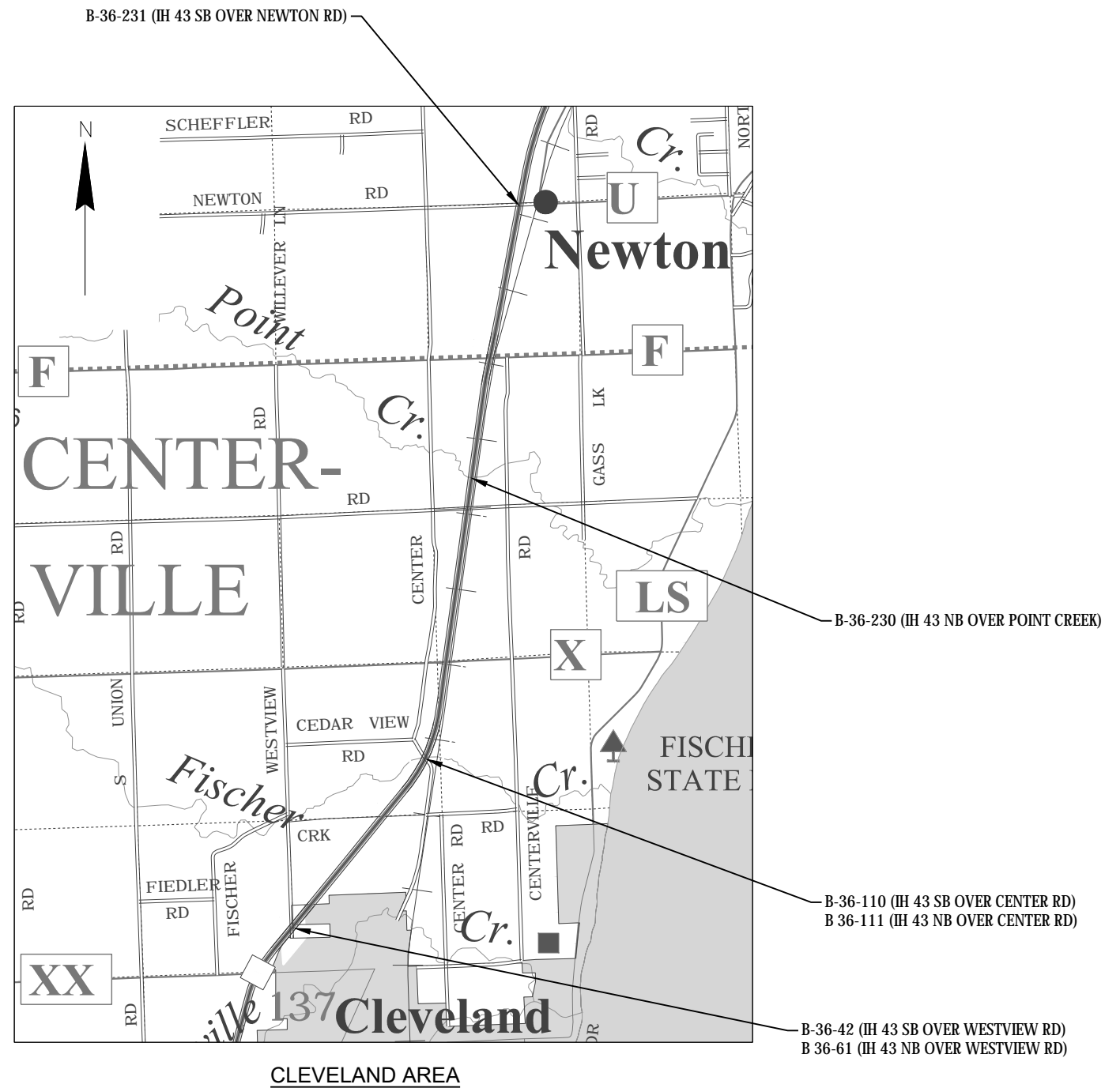
- STRUCTURE B-36-42
- STRUCTURE B-36-110
- STRUCTURE B-36-231

TRAFFIC HANDLING:

NORTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
 SOUTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
 NB ENTRANCE RAMP FROM CTH XX CLOSED
 ALL OTHER RAMP OPEN TO TRAFFIC
 USE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION",
 "BARRICADES AND SIGNS FOR VARIOUS MAINLINE CLOSURES, DETAIL D",
 "TRAFFIC CONTROL, GUIDANCE SIGNING FOR ON-RAMP CLOSURES"

RESTRICTIONS:

NORTHBOUND OUTSIDE LANE CLOSED
 SOUTHBOUND OUTSIDE LANE CLOSED
 RAMP FROM CTH XX TO NB IH 43 CLOSED



STAGE M1:

PURPOSE:

PLACE POLYMER OVERLAY ON STRUCTURE B-36-62 CARRYING CTH CL/VIEBAHN STREET OVER IH 43

TRAFFIC HANDLING:

CLOSE CTH CL/VIEBAHN STREET BETWEEN HECKER RD AND CTH CR
USE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES DETAILS C, D AND E"

RESTRICTIONS:

CTH CL/VIEBAHN ST CLOSED TO THROUGH TRAFFIC

STAGE M2:

PURPOSE:

PLACE POLYMER OVERLAY ON NB STRUCTURES (INSIDE LANE)

- STRUCTURE B-36-66
- STRUCTURE B-36-68
- STRUCTURE B-36-71

PLACE POLYMER OVERLAY ON SB STRUCTURES (INSIDE LANE)

- STRUCTURE B-36-65
- STRUCTURE B-36-67
- STRUCTURE B-36-70

TRAFFIC HANDLING:

NORTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
SOUTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
ALL RAMP OPEN TO TRAFFIC
USE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" AND "TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LEFT LANE CLOSURE"

RESTRICTIONS:

NORTHBOUND INSIDE LANE CLOSED
SOUTHBOUND INSIDE LANE CLOSED

STAGE M3:

PURPOSE:

PLACE POLYMER OVERLAY ON NB STRUCTURES (OUTSIDE LANE)

- STRUCTURE B-36-66
- STRUCTURE B-36-68
- STRUCTURE B-36-71

PLACE POLYMER OVERLAY ON SB STRUCTURES (OUTSIDE LANE)

- STRUCTURE B-36-65
- STRUCTURE B-36-67
- STRUCTURE B-36-70

TRAFFIC HANDLING:

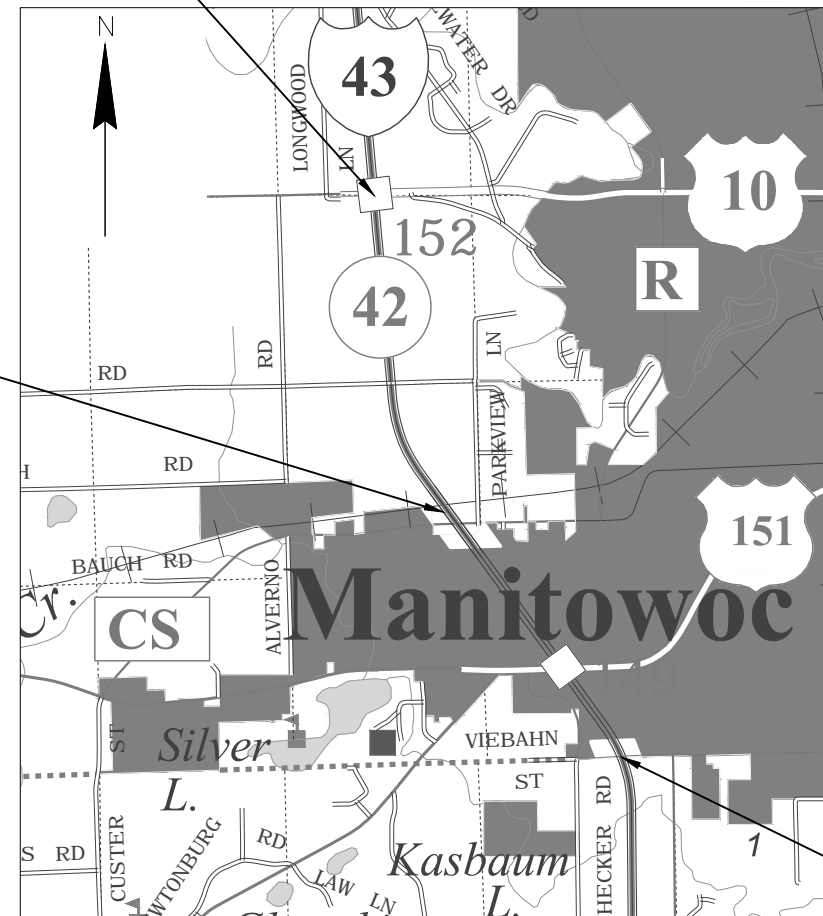
NORTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
SOUTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
ALL RAMP OPEN TO TRAFFIC
USE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION", "TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE", AND "TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"

RESTRICTIONS:

NORTHBOUND OUTSIDE LANE CLOSED
SOUTHBOUND OUTSIDE LANE CLOSED

B-36-70 (IH 43 SB OVER USH 10 EB/STH 42 SB)
B-36-71 (IH 43 NB OVER USH 10 EB/STH 42 SB)

B-36-65 (IH 43 SB OVER CTH CS/W CUSTER ST)
B-36-66 (IH 43 NB OVER CTH CS/W CUSTER ST)
B-36-67 (IH 43 SB OVER WISCONSIN CENTRAL RR)
B-36-68 (IH 43 NB OVER WISCONSIN CENTRAL RR)



MANITOWOC AREA

B-36-62 (CTH CL/VIEBAHN ST OVER IH 43)

STAGE K1:

PURPOSE:

PLACE POLYMER OVERLAY ON STRUCTURE B-36-81 CARRYING CTH V/HILLCREST ROAD OVER IH 43

TRAFFIC HANDLING:

CLOSE CTH V/HILLCREST ROAD BETWEEN IH 43 NB RAMPS AND IH 43 SB RAMPS
USE SDD "BARRICADES AND SIGNS FOR VARIOUS MAINLINE CLOSURES DETAILS C AND D"

RESTRICTIONS:

CTH V/HILLCREST ROAD CLOSED TO THROUGH TRAFFIC

STAGE K2:

PURPOSE:

PLACE POLYMER OVERLAY ON NB STRUCTURES (INSIDE LANE)

STRUCTURE B-36-87
STRUCTURE B-36-92
STRUCTURE B-36-98

PLACE POLYMER OVERLAY ON SB STRUCTURES (INSIDE LANE)

STRUCTURE B-36-86
STRUCTURE B-36-91

TRAFFIC HANDLING:

NORTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
SOUTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
ALL RAMPS OPEN TO TRAFFIC
USE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" AND "TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LEFT LANE CLOSURE"

RESTRICTIONS:

NORTHBOUND INSIDE LANE CLOSED
SOUTHBOUND INSIDE LANE CLOSED

STAGE K3:

PURPOSE:

PLACE POLYMER OVERLAY ON NB STRUCTURES (OUTSIDE LANE)

STRUCTURE B-36-87
STRUCTURE B-36-92
STRUCTURE B-36-98

PLACE POLYMER OVERLAY ON SB STRUCTURES (OUTSIDE LANE)

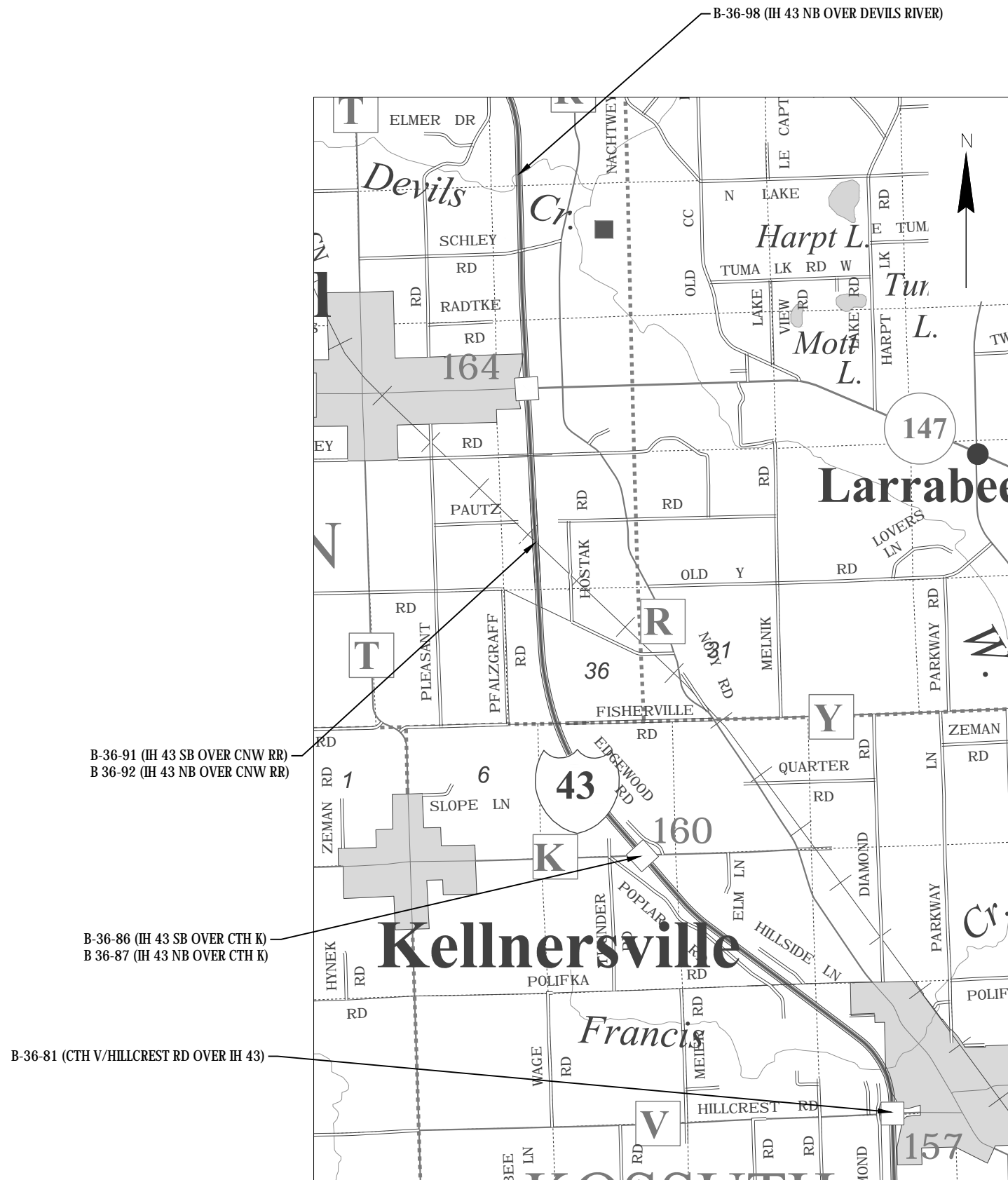
STRUCTURE B-36-86
STRUCTURE B-36-91

TRAFFIC HANDLING:

NORTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
SOUTHBOUND IH 43 OPEN TO ONE LANE OF TRAFFIC
ALL RAMPS OPEN TO TRAFFIC
USE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION", "TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE", AND "TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE"

RESTRICTIONS:

NORTHBOUND OUTSIDE LANE CLOSED
SOUTHBOUND OUTSIDE LANE CLOSED



KELLNERSVILLE AREA

Estimate Of Quantities

1225-10-71

| Line | Item | Item Description | Unit | Total | Qty |
|------|------------|---------------------------------------|------|------------|------------|
| 0002 | 509.5100.S | Polymer Overlay | SY | 15,029.000 | 15,029.000 |
| 0004 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0006 | 642.5001 | Field Office Type B | EACH | 1.000 | 1.000 |
| 0008 | 643.0300 | Traffic Control Drums | DAY | 9,139.000 | 9,139.000 |
| 0010 | 643.0420 | Traffic Control Barricades Type III | DAY | 697.000 | 697.000 |
| 0012 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 1,395.000 | 1,395.000 |
| 0014 | 643.0715 | Traffic Control Warning Lights Type C | DAY | 920.000 | 920.000 |
| 0016 | 643.0800 | Traffic Control Arrow Boards | DAY | 40.000 | 40.000 |
| 0018 | 643.0900 | Traffic Control Signs | DAY | 1,382.000 | 1,382.000 |
| 0020 | 643.1050 | Traffic Control Signs PCMS | DAY | 73.000 | 73.000 |
| 0022 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0024 | 646.1020 | Marking Line Epoxy 4-Inch | LF | 7,265.000 | 7,265.000 |
| 0026 | SPV.0090 | Special 01. Joint Sealing | LF | 1,900.000 | 1,900.000 |

3

3

TRAFFIC CONTROL

| STAGE | LOCATION | APPROX. SERVICE PERIOD DAYS | 643.0300 DRUMS | | 643.0420 BARRICADES TYPE III | | 643.0705 WARNING LIGHTS TYPE A | | 643.0715 WARNING LIGHTS TYPE C | | 643.0800 ARROW BOARDS | | 643.0900 SIGNS | | 643.1050 SIGNS PCMS |
|-------------------|------------------------------------|--------------------------------|-------------------|-------|---------------------------------|------|-----------------------------------|------|-----------------------------------|------|--------------------------|------|-------------------|------|------------------------|
| | | | NO. | DAYS | NO. | DAYS | NO. | DAYS | NO. | DAYS | NO. | DAYS | NO. | DAYS | DAY |
| CATEGORY 0220 | | | | | | | | | | | | | | | |
| C1 | NB IH 43 | 2 | 213 | 426 | 15 | 30 | 30 | 60 | 15 | 30 | 1 | 2 | 31 | 62 | 7 |
| | CTH XX ON RAMP TO NB IH 43 | 2 | 29 | 58 | -- | -- | -- | -- | 12 | 24 | -- | -- | 3 | 6 | -- |
| | SB IH 43 | 2 | 303 | 606 | 22 | 44 | 44 | 88 | 15 | 30 | 1 | 2 | 39 | 78 | 7 |
| SUBTOTALS | | | 1,090 | | 74 | | 148 | | 84 | | 4 | | 146 | | 14 |
| C2 | NB IH 43 | 2 | 213 | 426 | 15 | 30 | 30 | 60 | 15 | 30 | 1 | 2 | 31 | 62 | -- |
| | CTH XX ON RAMP TO NB IH 43 CLOSURE | 2 | -- | -- | 5 | 10 | 10 | 20 | -- | -- | -- | -- | 1 | 2 | 3 |
| | SB IH 43 | 2 | 303 | 606 | 22 | 44 | 44 | 88 | 15 | 30 | 1 | 2 | 39 | 78 | -- |
| SUBTOTALS | | | 1,032 | | 84 | | 168 | | 60 | | 4 | | 142 | | 3 |
| M1 | CTH CL/VIEBAHN STREET CLOSURE | 2 | -- | -- | 18 | 36 | 36 | 72 | -- | -- | -- | -- | 14 | 28 | 14 |
| SUBTOTALS | | | 0 | | 36 | | 72 | | 0 | | 0 | | 28 | | 14 |
| M2 | NB IH 43 | 4 | 130 | 520 | 9 | 36 | 18 | 72 | 15 | 60 | 1 | 4 | 23 | 92 | 7 |
| | SB IH 43 | 4 | 130 | 520 | 9 | 36 | 18 | 72 | 15 | 60 | 1 | 4 | 24 | 96 | 7 |
| | CTH JJ ON RAMP TO SB IH 43 | 2 | 29 | 58 | -- | -- | -- | -- | 12 | 24 | -- | -- | 3 | 6 | -- |
| SUBTOTALS | | | 1,098 | | 72 | | 144 | | 144 | | 8 | | 194 | | 14 |
| M3 | NB IH 43 | 4 | 130 | 520 | 9 | 36 | 18 | 72 | 15 | 60 | 1 | 4 | 23 | 92 | -- |
| | SB IH 43 | 4 | 130 | 520 | 9 | 36 | 18 | 72 | 15 | 60 | 1 | 4 | 24 | 96 | -- |
| | CTH JJ OFF RAMP FROM NB IH 43 | 2 | 24 | 48 | 2 | 4 | 4 | 8 | 8 | 16 | -- | -- | 4 | 8 | -- |
| | CTH JJ ON RAMP TO SB IH 43 | 2 | 52 | 104 | 2 | 4 | 4 | 8 | 12 | 24 | -- | -- | 5 | 10 | -- |
| SUBTOTALS | | | 1,192 | | 80 | | 160 | | 160 | | 8 | | 206 | | 0 |
| K1 | CTH V/HILLCREST RD CLOSURE | 2 | -- | -- | 18 | 36 | 36 | 72 | -- | -- | -- | -- | 16 | 32 | 14 |
| SUBTOTALS | | | 0 | | 36 | | 72 | | 0 | | 0 | | 32 | | 14 |
| K2 | NB IH 43 | 4 | 315 | 1,260 | 23 | 92 | 46 | 184 | 15 | 60 | 1 | 4 | 41 | 164 | 7 |
| | CTH K ON RAMP TO NB IH 43 | 4 | 29 | 116 | -- | -- | -- | -- | 12 | 48 | -- | -- | 3 | 12 | -- |
| | CTH Z ON RAMP TO NB IH 43 | 4 | 29 | 116 | -- | -- | -- | -- | 12 | 48 | -- | -- | 3 | 12 | -- |
| | SB IH 43 | 2 | 170 | 340 | 12 | 24 | 24 | 48 | 15 | 30 | 1 | 2 | 27 | 54 | 7 |
| SUBTOTALS | | | 1,832 | | 116 | | 232 | | 186 | | 6 | | 242 | | 14 |
| K3 | NB IH 43 | 4 | 315 | 1,260 | 23 | 92 | 46 | 184 | 15 | 60 | 1 | 4 | 41 | 164 | -- |
| | CTH K ON RAMP TO NB IH 43 | 4 | 52 | 208 | 2 | 8 | 4 | 16 | 12 | 48 | -- | -- | 5 | 20 | -- |
| | CTH Z ON RAMP TO NB IH 43 | 4 | 52 | 208 | 2 | 8 | 4 | 16 | 12 | 48 | -- | -- | 5 | 20 | -- |
| | SB IH 43 | 2 | 170 | 340 | 12 | 24 | 24 | 48 | 15 | 30 | 1 | 2 | 27 | 54 | -- |
| | CTH K OFF RAMP FROM SB IH 43 | 2 | 24 | 48 | 2 | 4 | 4 | 8 | 8 | 16 | -- | -- | 4 | 8 | -- |
| SUBTOTALS | | | 2,064 | | 136 | | 272 | | 202 | | 6 | | 266 | | 0 |
| PROJECT SUBTOTALS | | | 8,308 | | 634 | | 1,268 | | 15,836 | | 36 | | 1,256 | | 73 |
| UNDISTRIBUTED | | | 831 | | 63 | | 127 | | 15,84 | | 4 | | 126 | | 0 |
| TOTALS | | | 9,139 | | 697 | | 1,395 | | 920 | | 40 | | 1,382 | | 73 |

3

PAVEMENT MARKING

| STRUCTURE | LOCATION | BRIDGE LENGTH | 646.1020 | |
|---------------|--------------------|---------------|-------------------------|--------------------------|
| | | | EPOXY 4-INCH (WHITE) LF | EPOXY 4-INCH (YELLOW) LF |
| CATEGORY 0220 | | | | |
| B-36-42 | IH 43 | 186 | 233 | 186 |
| B-36-61 | IH 43 | 186 | 233 | 186 |
| B-36-62 | CTH CL/VIEBAHN ST | 260 | 325 | 260 |
| B-36-65 | IH 43 | 154 | 193 | 154 |
| B-36-66 | IH 43 | 154 | 193 | 154 |
| B-36-67 | IH 43 | 156 | 195 | 156 |
| B-36-68 | IH 43 | 156 | 195 | 156 |
| B-36-70 | IH 43 | 158 | 198 | 158 |
| B-36-71 | IH 43 | 158 | 198 | 158 |
| B-36-81 | CTH V/HILLCREST RD | 227 | 284 | 227 |
| B-36-86 | IH 43 | 215 | 269 | 215 |
| B-36-87 | IH 43 | 217 | 271 | 217 |
| B-36-91 | IH 43 | 219 | 274 | 219 |
| B-36-92 | IH 43 | 219 | 274 | 219 |
| B-36-98 | IH 43 | 116 | 145 | 116 |
| B-36-110 | IH 43 | 127 | 159 | 127 |
| B-36-111 | IH 43 | 121 | 151 | 121 |
| B-36-230 | IH 43 | 76 | 95 | 76 |
| B-36-231 | IH 43 | 124 | 155 | 124 |

SUBTOTALS 4,036 3,229
PROJECT TOTALS 7,265

3

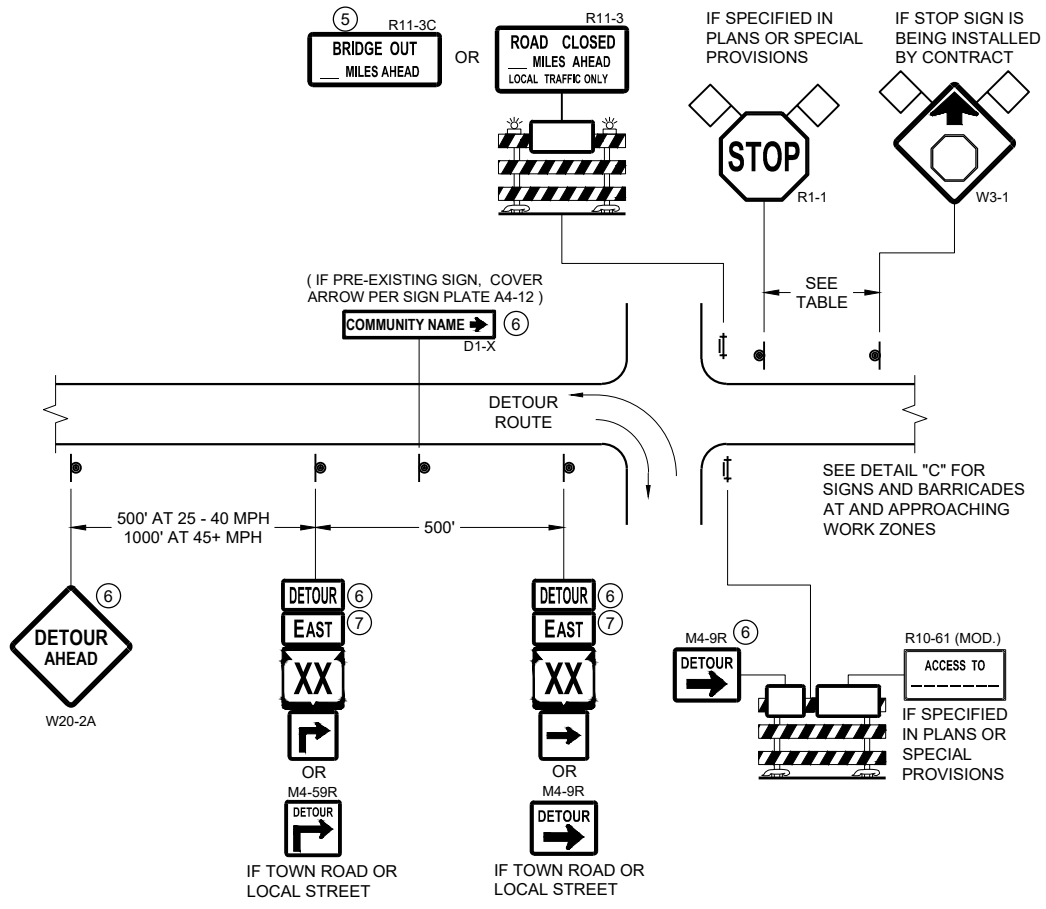
JOINT SEALING

| STRUCTURE | LOCATION | SPV.0090.01 |
|---------------|--------------------|-----------------|
| | | JOINT LENGTH LF |
| CATEGORY 0220 | | |
| B-36-42 | IH 43 | 122 |
| B-36-61 | IH 43 | 155 |
| B-36-62 | CTH CL/VIEBAHN ST | 72 |
| B-36-65 | IH 43 | 98 |
| B-36-66 | IH 43 | 98 |
| B-36-67 | IH 43 | 92 |
| B-36-68 | IH 43 | 92 |
| B-36-70 | IH 43 | 81 |
| B-36-71 | IH 43 | 81 |
| B-36-81 | CTH V/HILLCREST RD | 136 |
| B-36-86 | IH 43 | 104 |
| B-36-87 | IH 43 | 104 |
| B-36-91 | IH 43 | 116 |
| B-36-92 | IH 43 | 116 |
| B-36-98 | IH 43 | 80 |
| B-36-110 | IH 43 | 93 |
| B-36-111 | IH 43 | 89 |
| B-36-230 | IH 43 | 84 |
| B-36-231 | IH 43 | 87 |

SUBTOTALS 1,900
PROJECT TOTALS 1,900

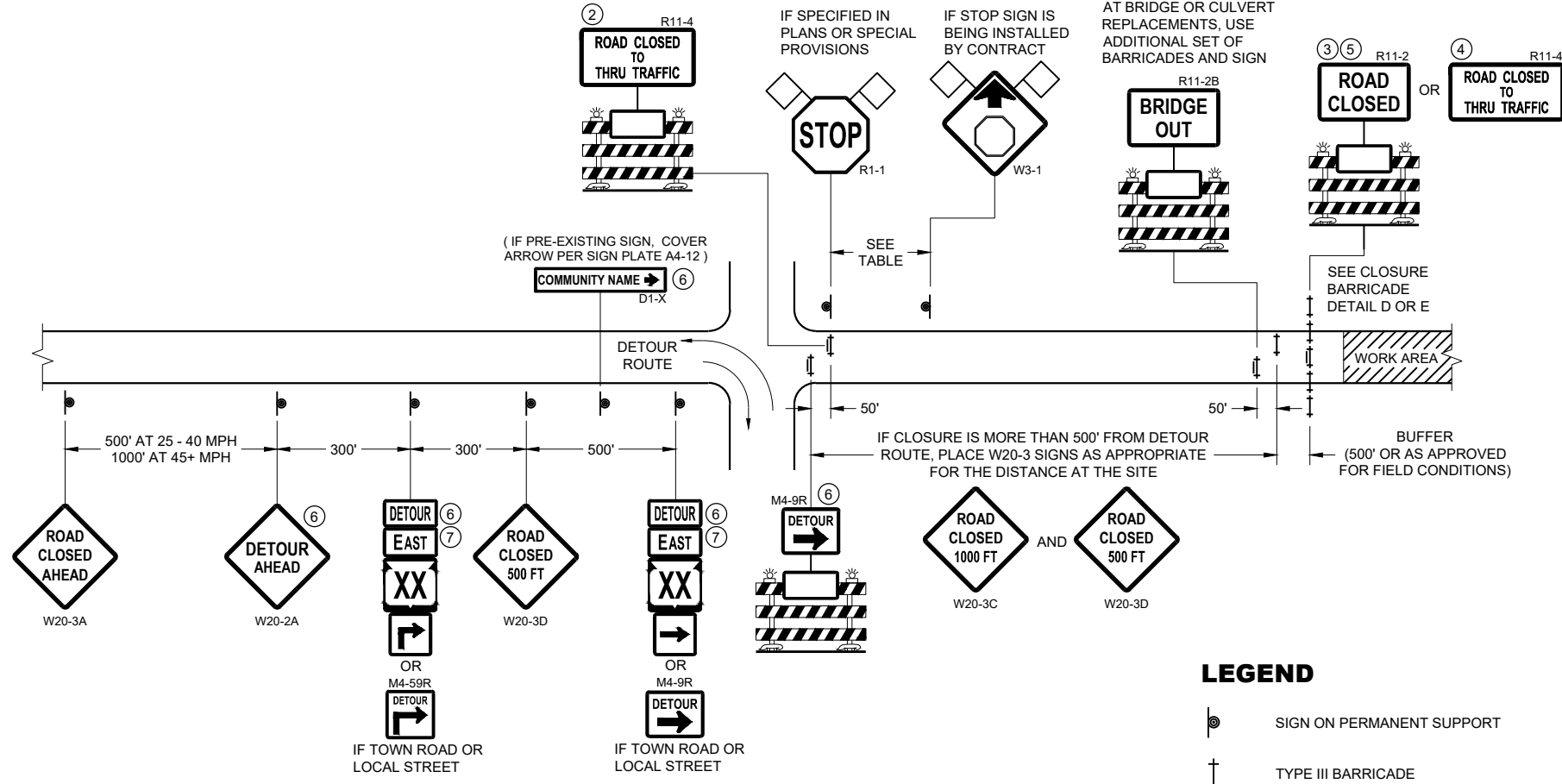
Standard Detail Drawing List

| | |
|-----------|---|
| 15C02-08A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C02-08B | BARRICADES AND SIGNS FOR VARIOUS CLOSURES |
| 15C02-08D | ON RAMP LANE CLOSURE |
| 15C08-20A | LONGITUDINAL MARKING (MAINLINE) |
| 15C11-07B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15D12-08B | TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION |
| 15D15-05A | TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE |
| 15D15-05B | TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE |
| 15D15-05E | TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SIGNS TO POSTS |



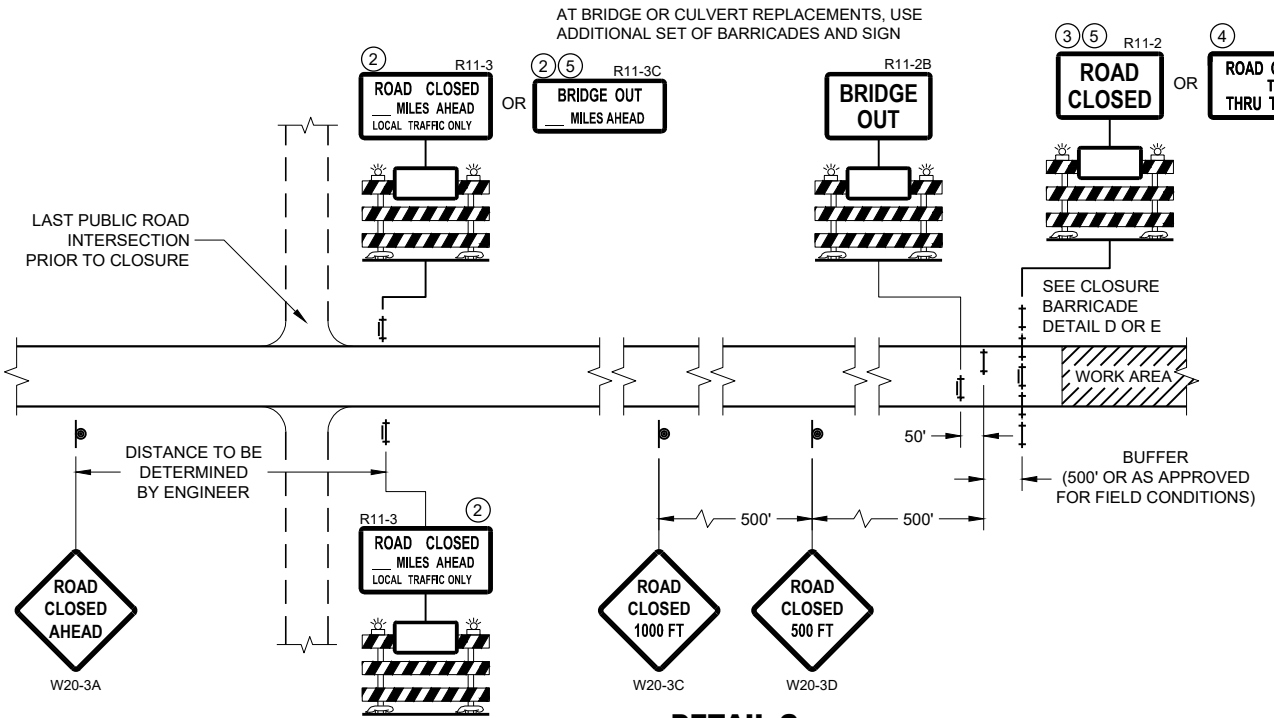
**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)



**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)



**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

| SPEED LIMIT (MPH) | "STOP AHEAD" ADVANCE WARNING DISTANCE (FT) |
|-------------------|--|
| 25 | 200 |
| 30 | 200 |
| 35 | 350 |
| 40 | 350 |
| 45 | 500 |
| 50 | 550 |
| 55 | 750 |

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1

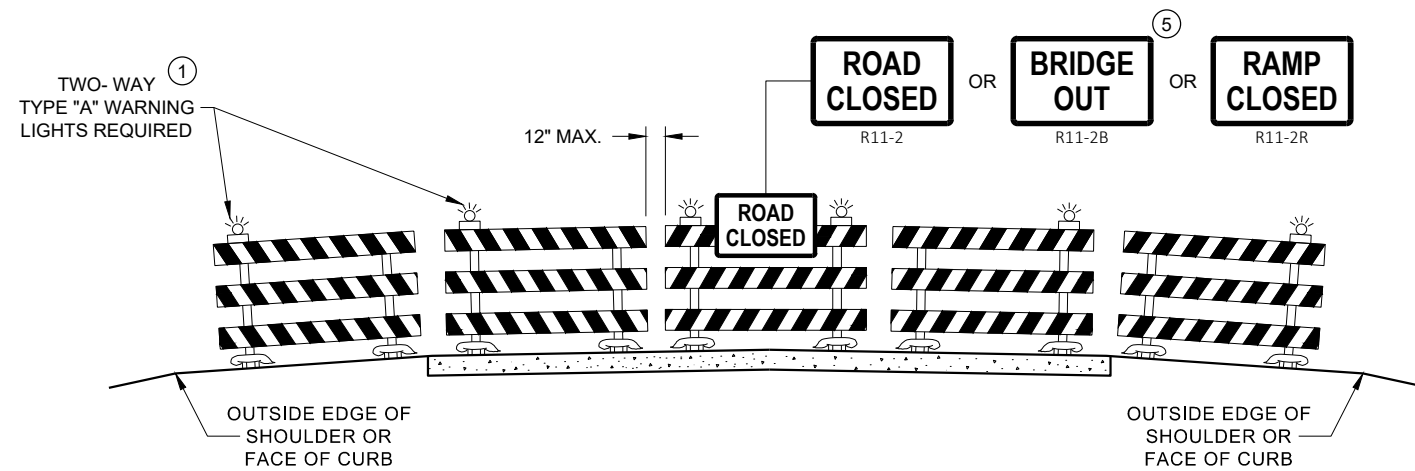
SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

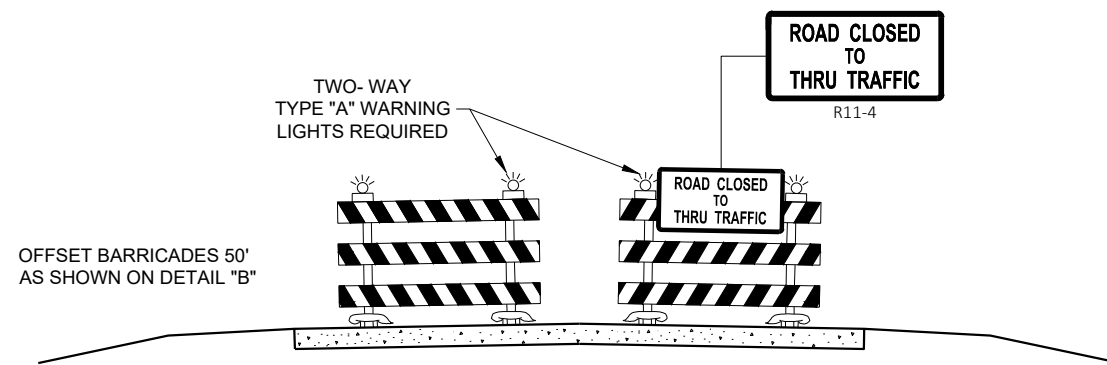
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE DATE WORK ZONE ENGINEER

FHWA



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



**DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE 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)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE 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 ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- TO EAST MO4 - 5
- TO EAST M3 - X
- XX M1 - 6 OR XX M1 - 4 OR XX M1 - 1
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

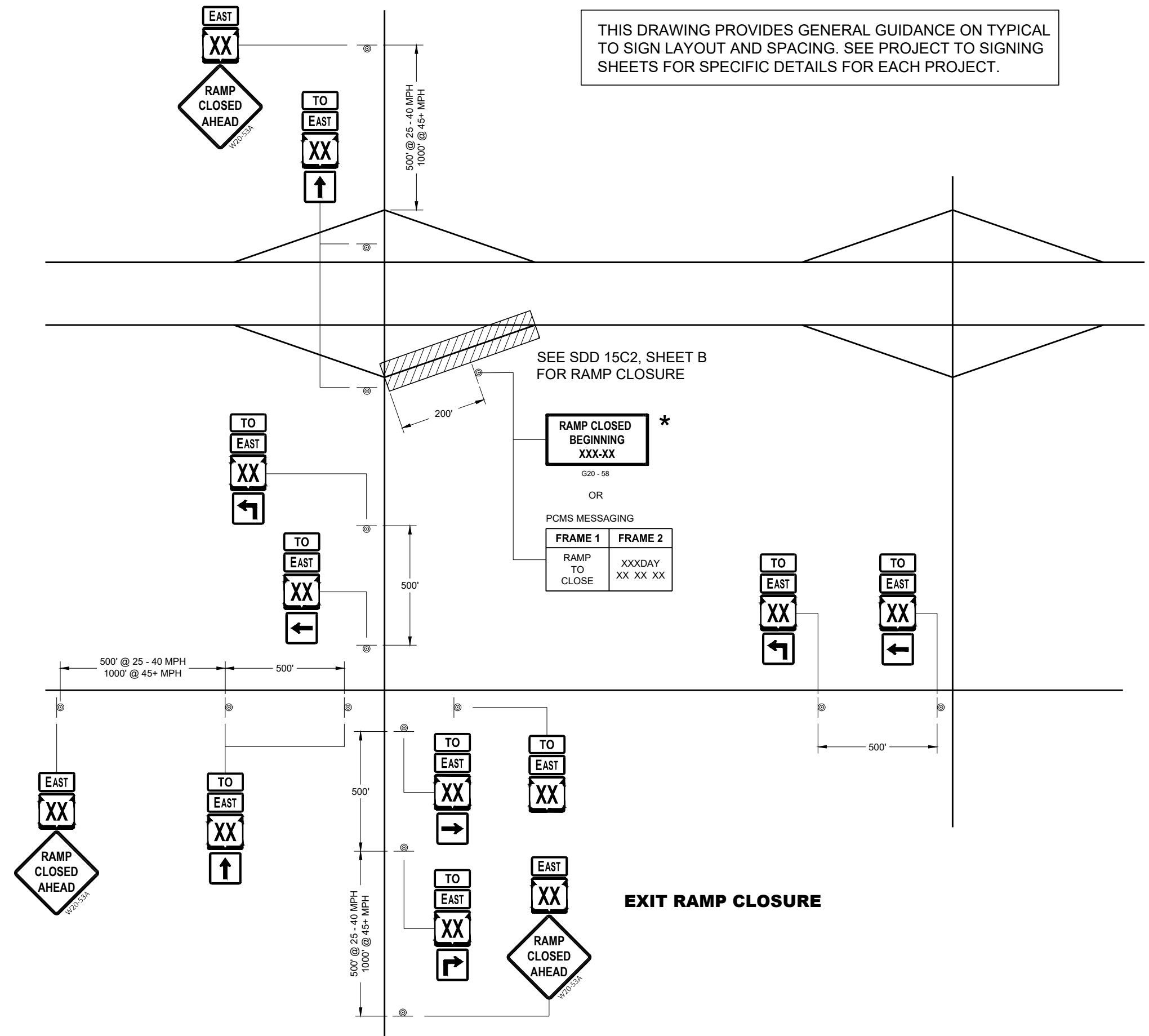
- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.
- THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- "MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- SIGN SIZES SHALL BE AS FOLLOW:
 M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
 MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
 M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
 MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
 W20 - 53A SHALL BE 48" X 48"
- * PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

6

6

SDD 15C02 - 08d

SDD 15C02 - 08d

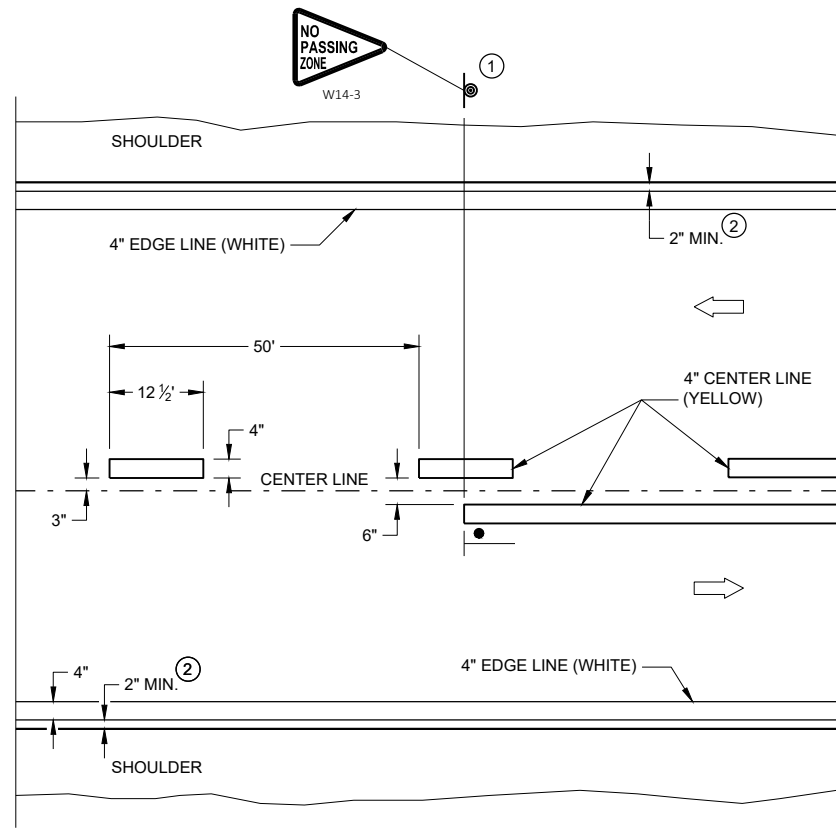


**ON RAMP
LANE CLOSURE**

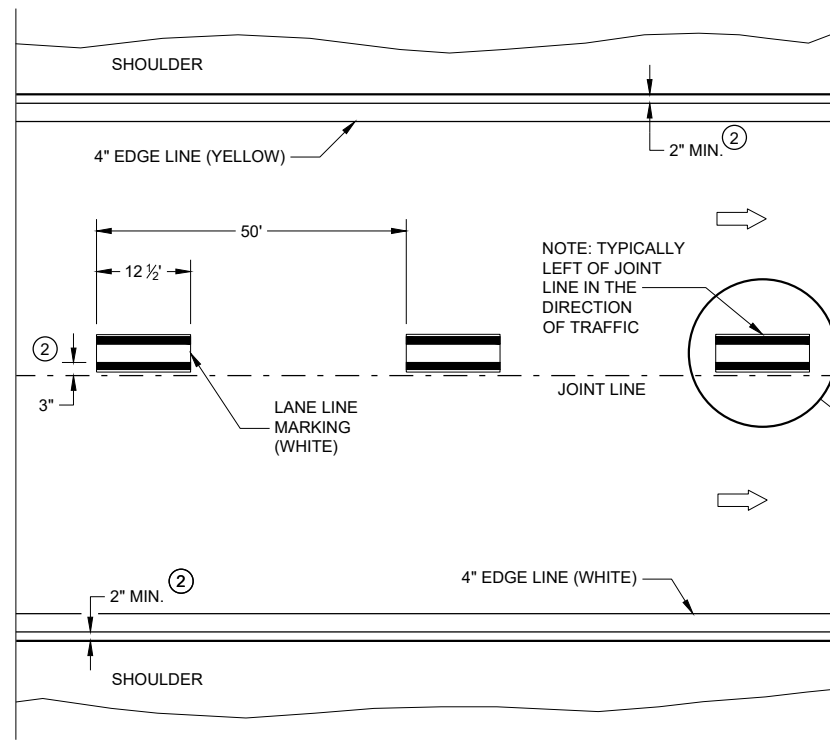
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

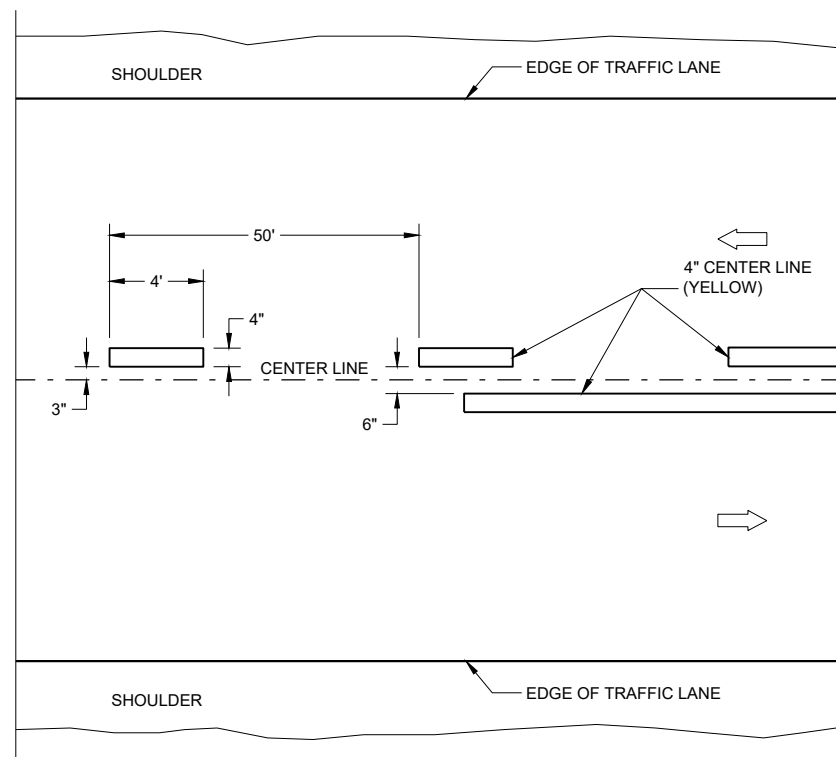


TWO WAY TRAFFIC

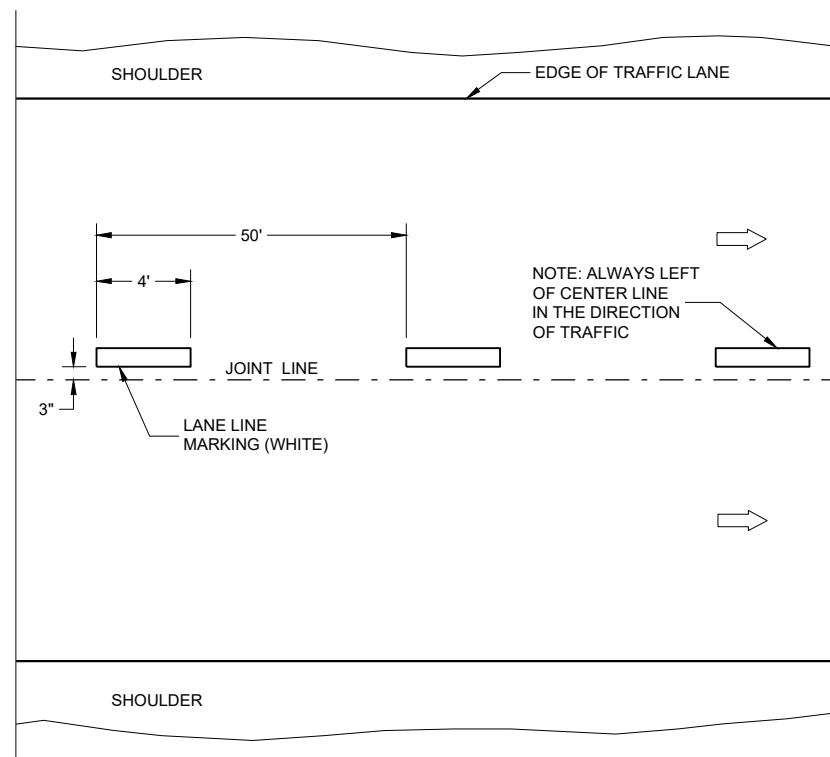


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

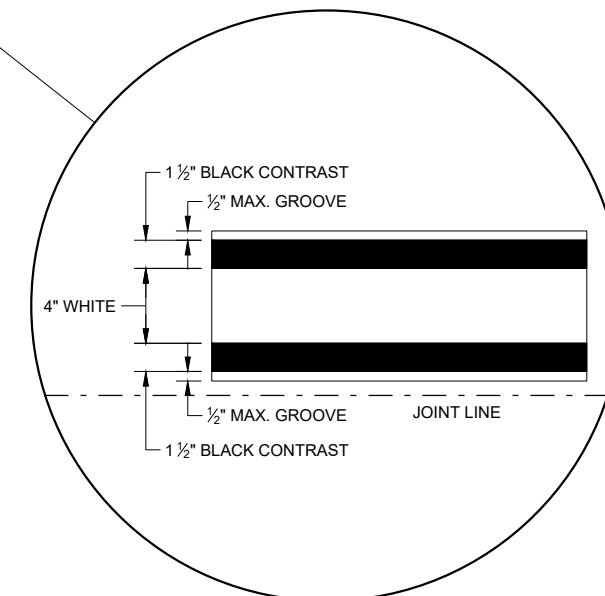
GENERAL NOTES

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

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

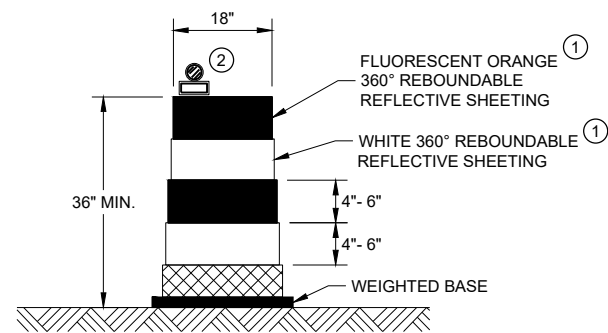
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



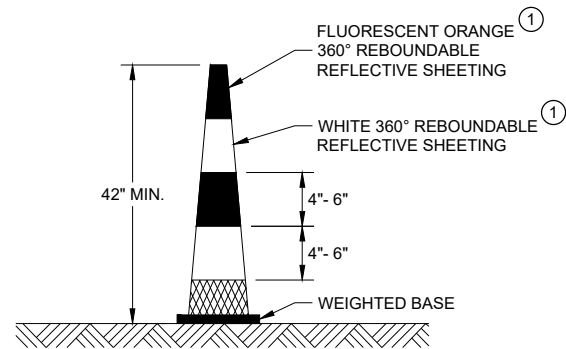
**LONGITUDINAL MARKING
(MAINLINE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Matthew Rauch
DATE STATEWIDE SIGNING AND MARKING
ENGINEER

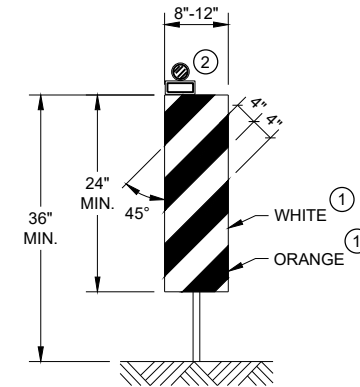


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

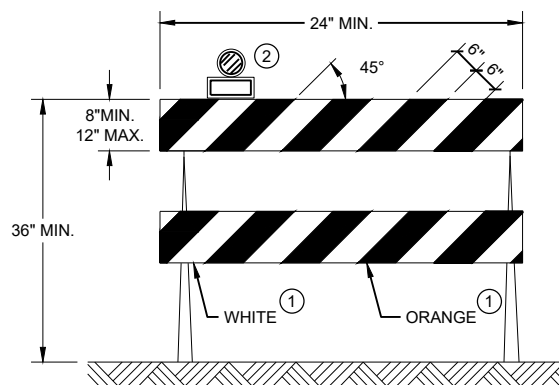


VERTICAL PANEL

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

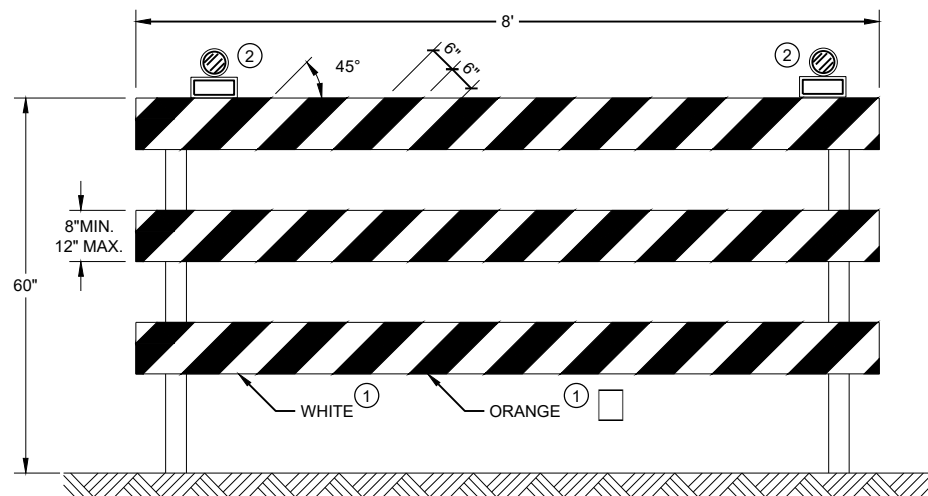
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE 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.

| | |
|--|--|
| CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED June 2017 DATE | /S/ Andrew Heidtke WORK ZONE ENGINEER |
| <small>FHWA</small> | |

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.










WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

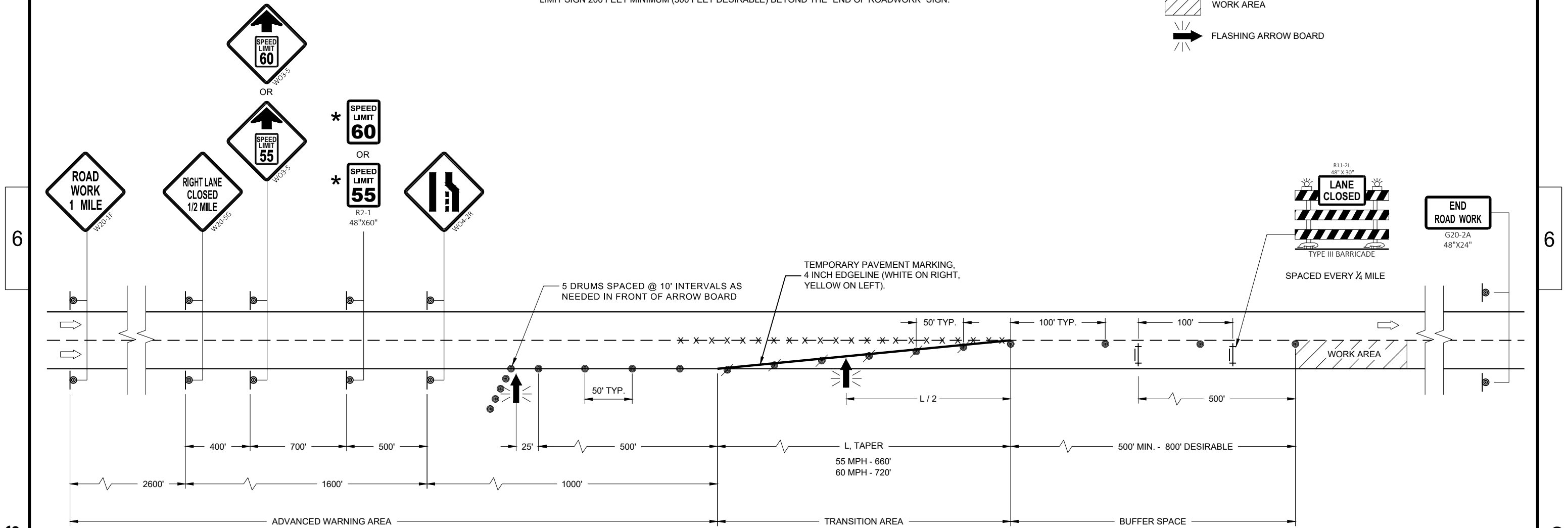
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLASHING ARROW BOARD



SDD 15D12 - 08b

SDD 15D12 - 08b

| | |
|---|--|
| TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED February 2020 DATE | /S/ Andrew Heidtke WORK ZONE ENGINEER |
| FHWA | |

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

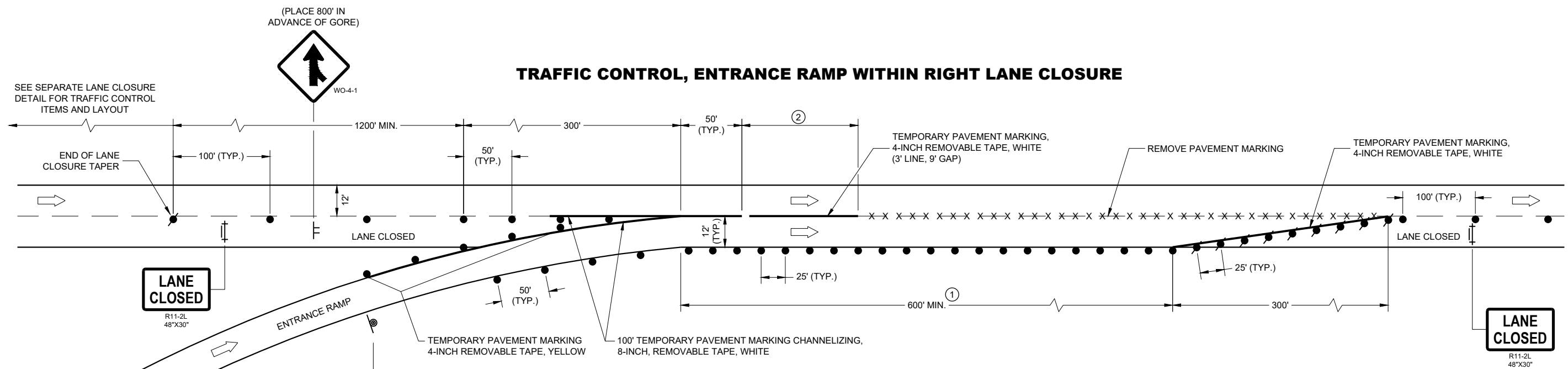
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- ② END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE



PARALLEL EXIT RAMP








**TRAFFIC CONTROL,
PARALLEL ENTRANCE RAMP
WITHIN LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE May 2019 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS /OR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

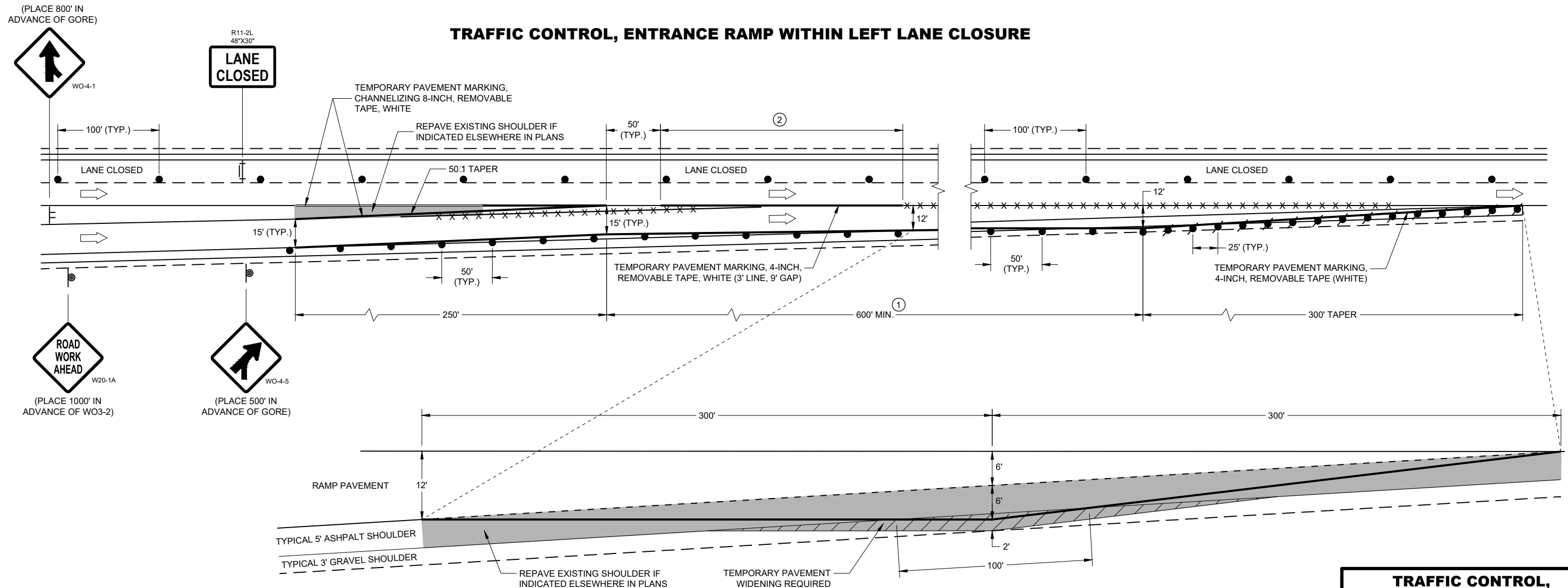
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① EXTEND THE LENGTH OF THE MERGE AREA IF THE ENTERING (DESIGN) SPEED OF THE RAMP IS LESS THAN 50 MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- ② END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LEFT LANE CLOSURE



TEMPORARY PAVEMENT DETAIL
(EXISTING RAMP DIMENSIONS MAY VARY, ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2019 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15D15 - 05b

SDD 15D15 - 05b

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊞ SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- ×-×-× REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- ⊞ TYPE III BARRICADE WITH ATTACHED SIGN
- ➡ DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

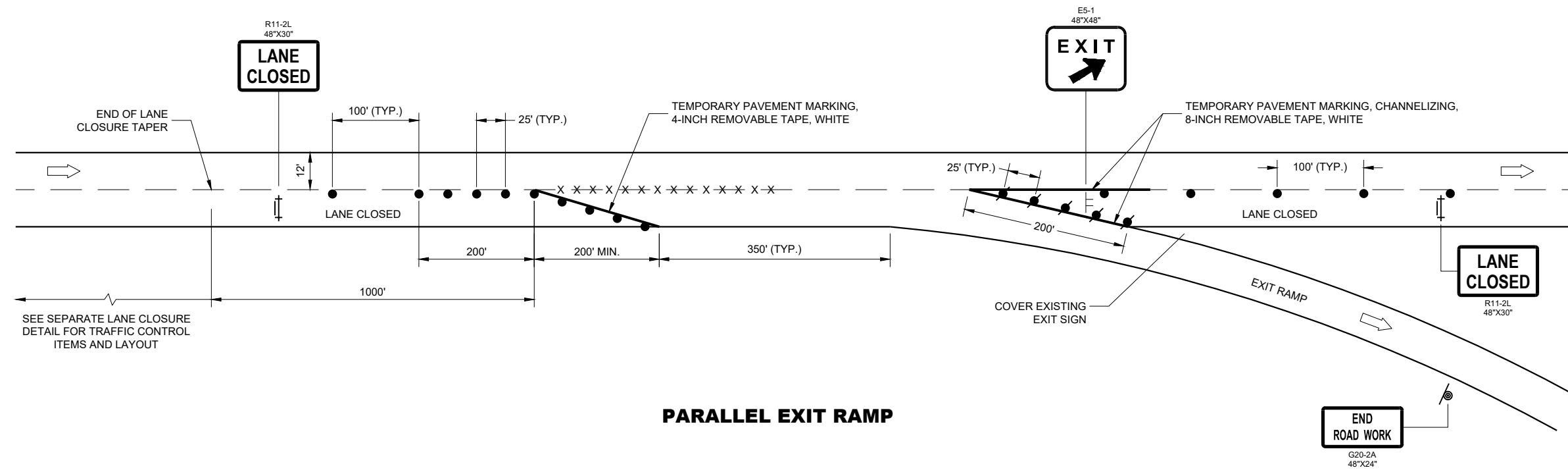
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



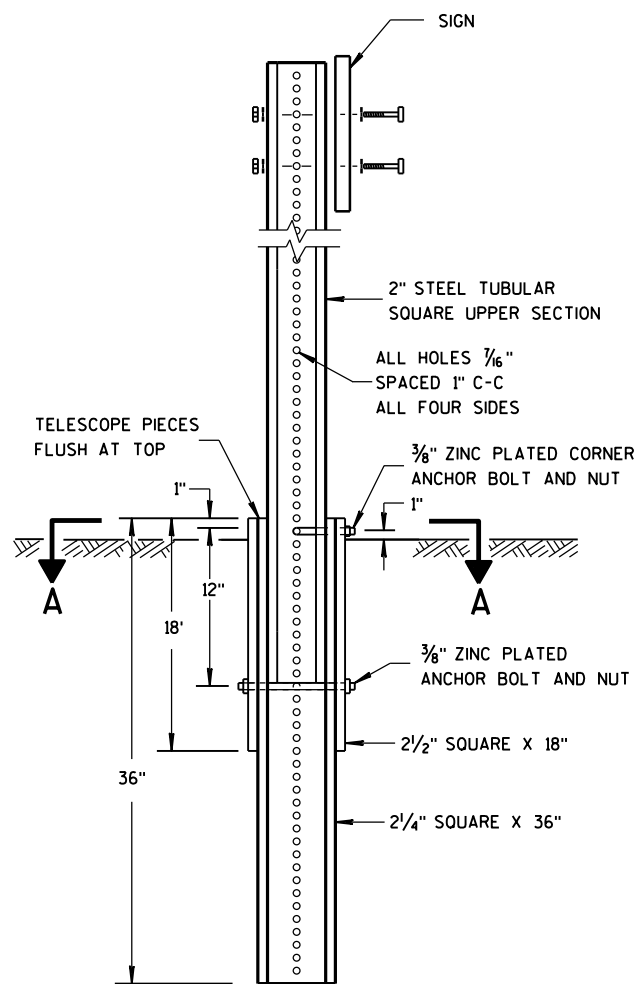
6

6

SDD 15D15 - 05e

SDD 15D15 - 05e

| | |
|--|--|
| TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED May 2019 DATE | /S/ Andrew Heidtke WORK ZONE ENGINEER |
| FHWA | |



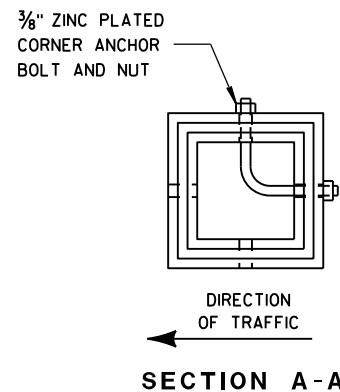
DETAIL OF TUBULAR STEEL SIGN POST

TUBULAR STEEL POSTS

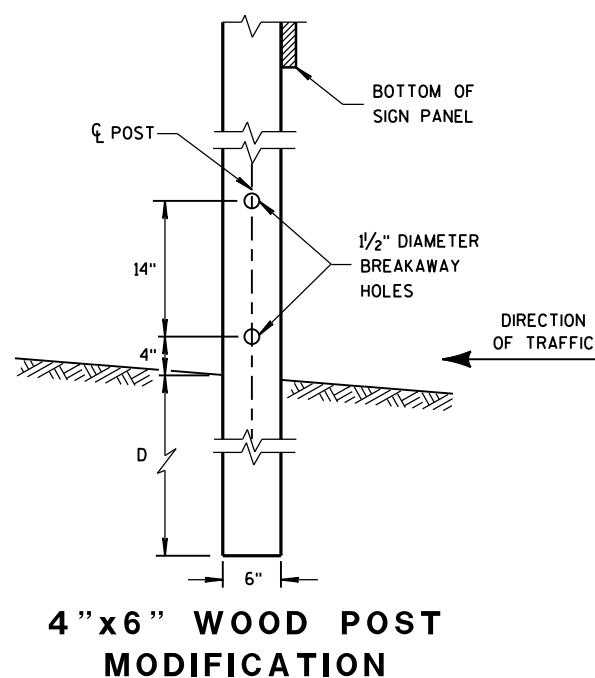
| AREA OF SIGN INSTALLATION (SQ. FT.) | NUMBER OF REQUIRED TUBULAR STEEL POSTS |
|--|--|
| 9 OR LESS | 1 |
| GREATER THAN 9 LESS THAN OR EQUAL TO 18 | 2 |
| GREATER THAN 18 LESS THAN OR EQUAL TO 27 | 3 |

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

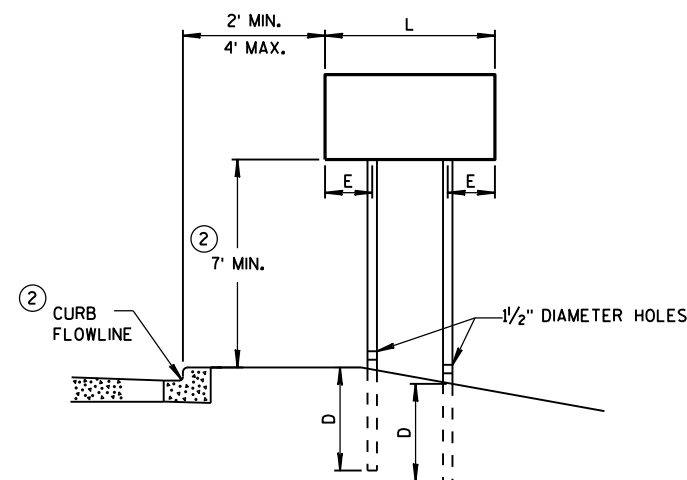
SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.



SECTION A-A



4" X 6" WOOD POST MODIFICATION

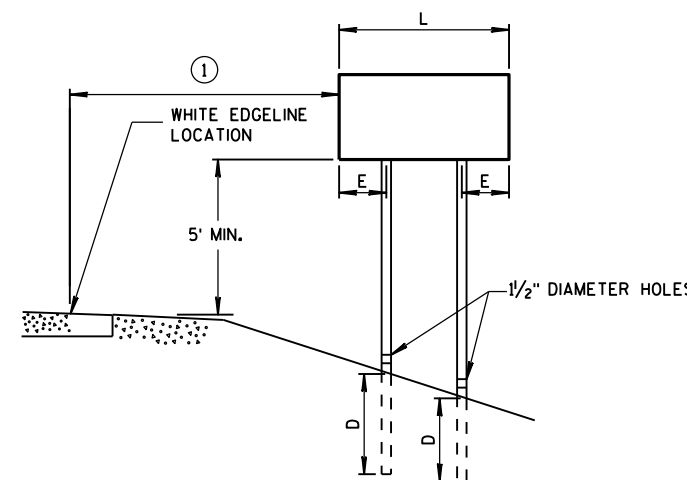


URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH

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



RURAL AREA

4" X 6" WOOD POST

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

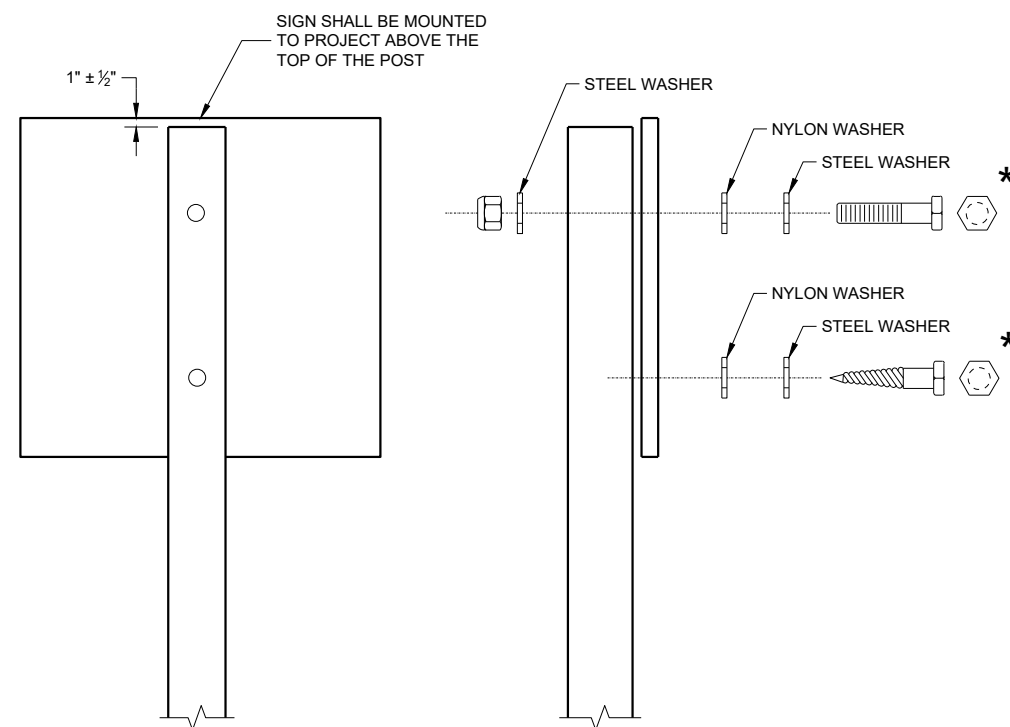
SEE NOTE ③

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")

- LAG SCREWS - 3/8" x 3"
- MACHINE BOLTS - 5/16" x 6 1/2" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")

- MACHINE BOLTS - 3/8" x 3 1/4" LENGTH W/NUTS
- RIVETS - 3/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -

- 1 1/4" O.D. x 3/8" I.D. x 1/16" STEEL
- 1 1/4" O.D. x 3/8" I.D. x 0.080 NYLON

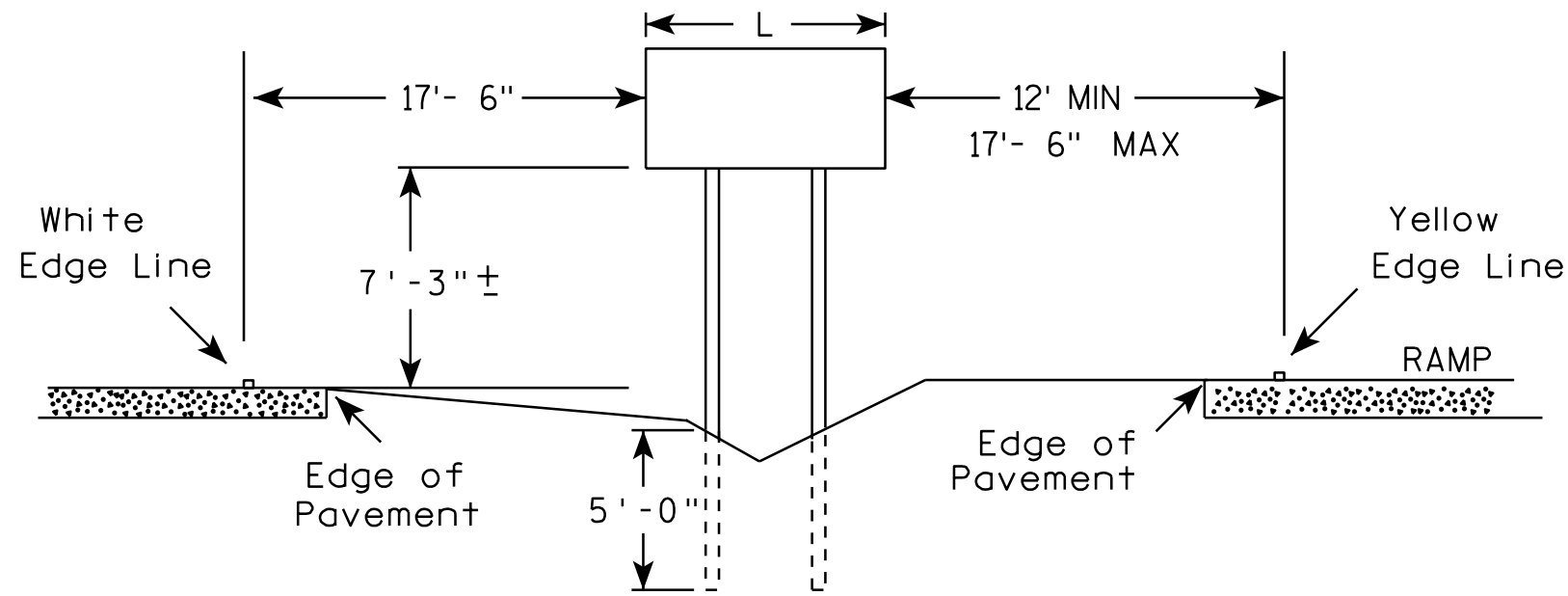
* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

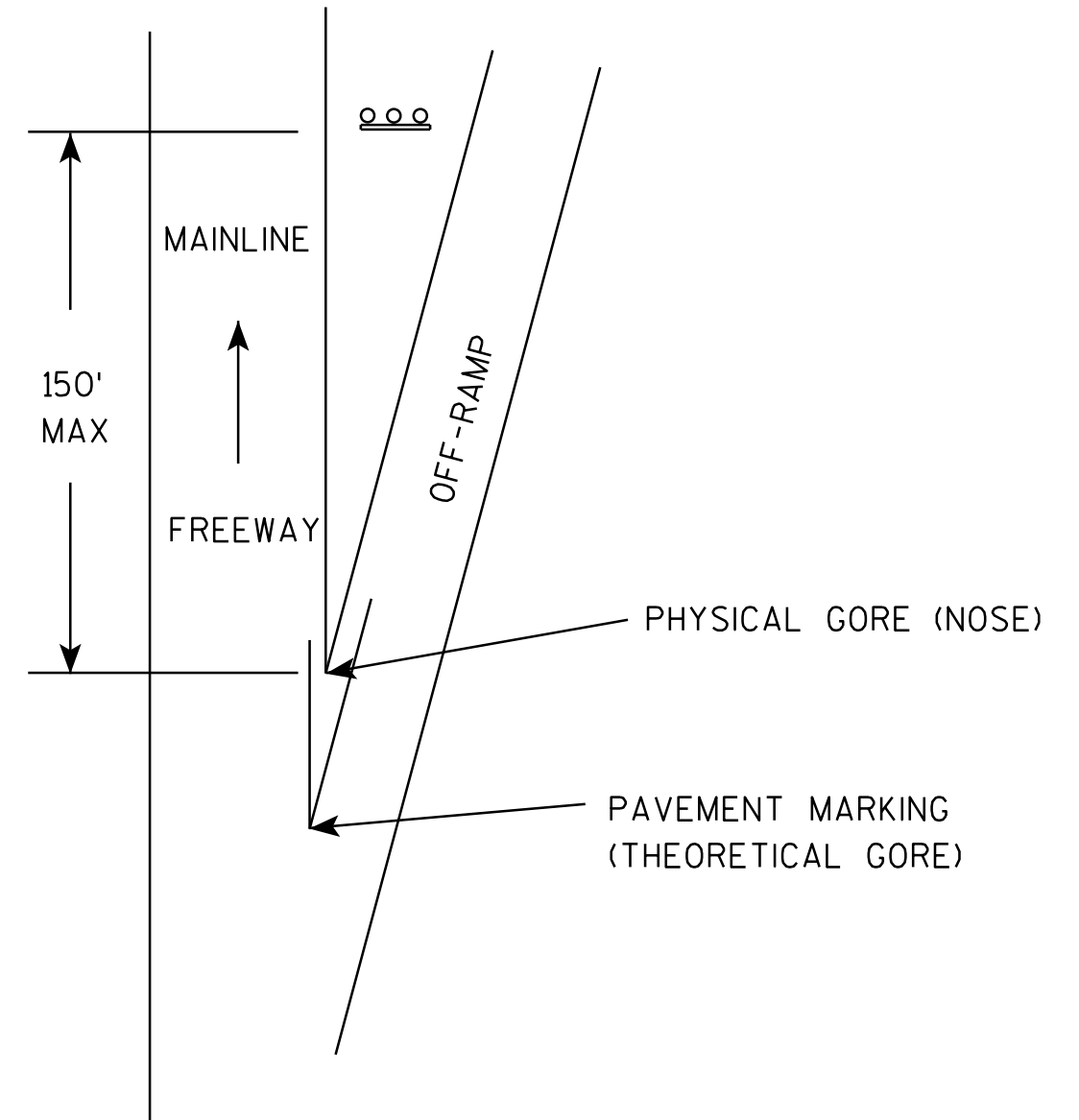
APPROVED
June 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The ($\bar{\pm}$) tolerance for the mounting height is 3 inches.



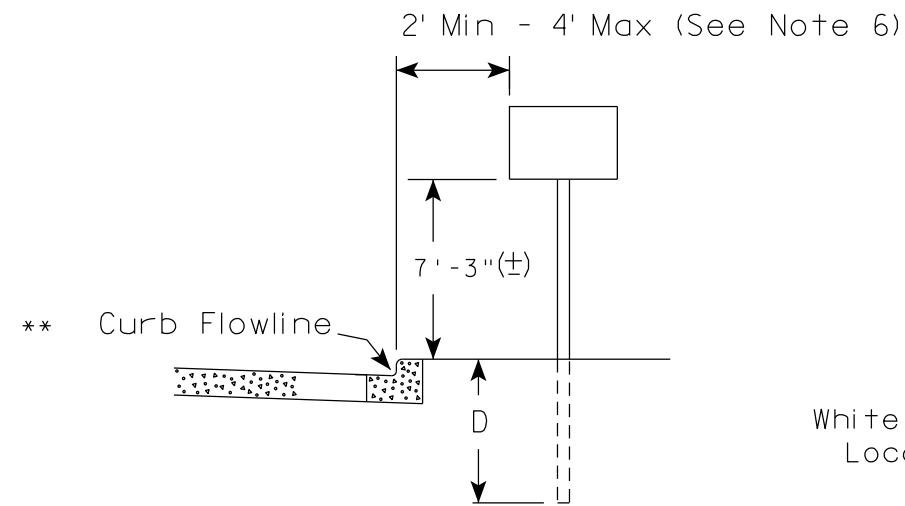
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7

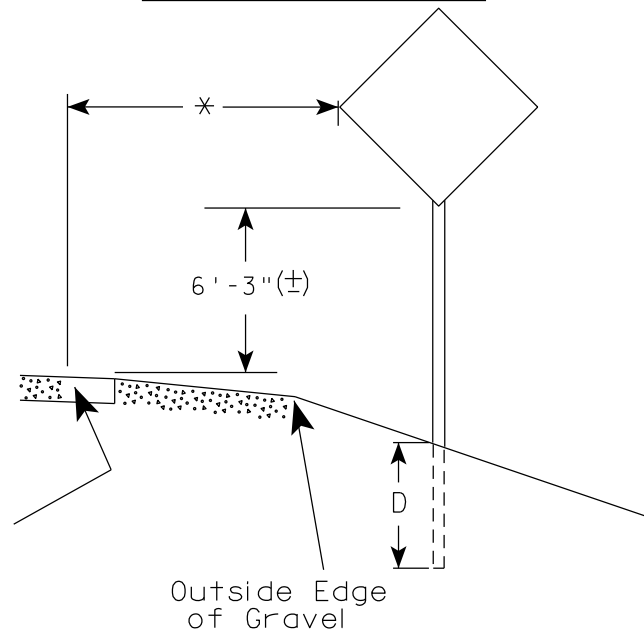
| | |
|---|---|
| TYPICAL INSTALLATION OF TYPE II SIGNS ON WOOD POSTS IN GORE | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Raush</i> for State Traffic Engineer |
| DATE 2/06/14 | PLATE NO. A4-2.3 |

URBAN AREA

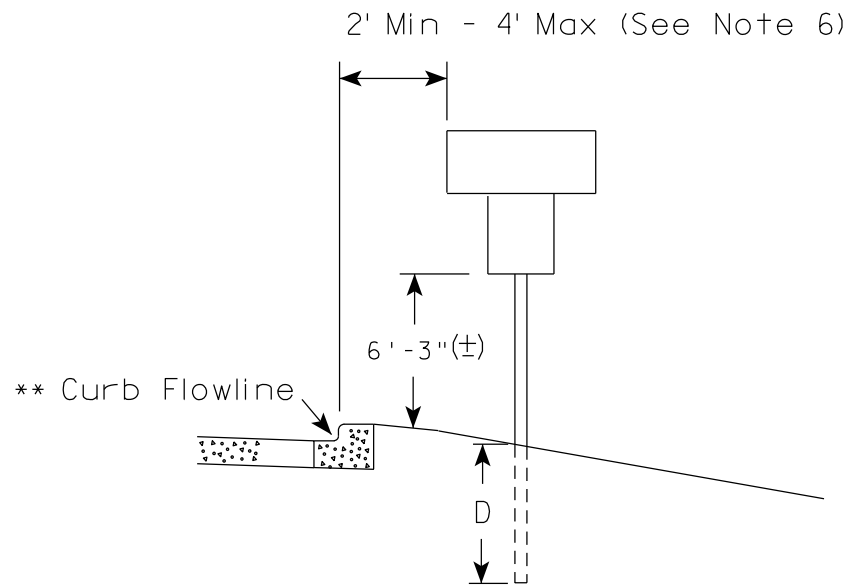
RURAL AREA (See Note 2)



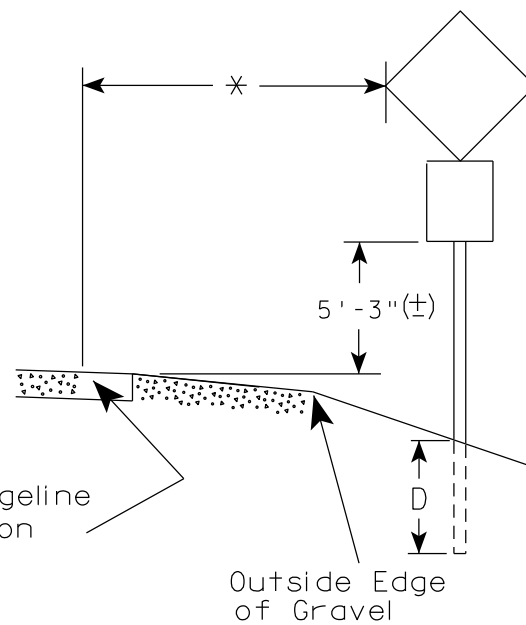
White Edgeline Location



Outside Edge of Gravel



White Edgeline Location



Outside Edge of Gravel

POST EMBEDMENT DEPTH

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

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 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for 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 height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the 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.

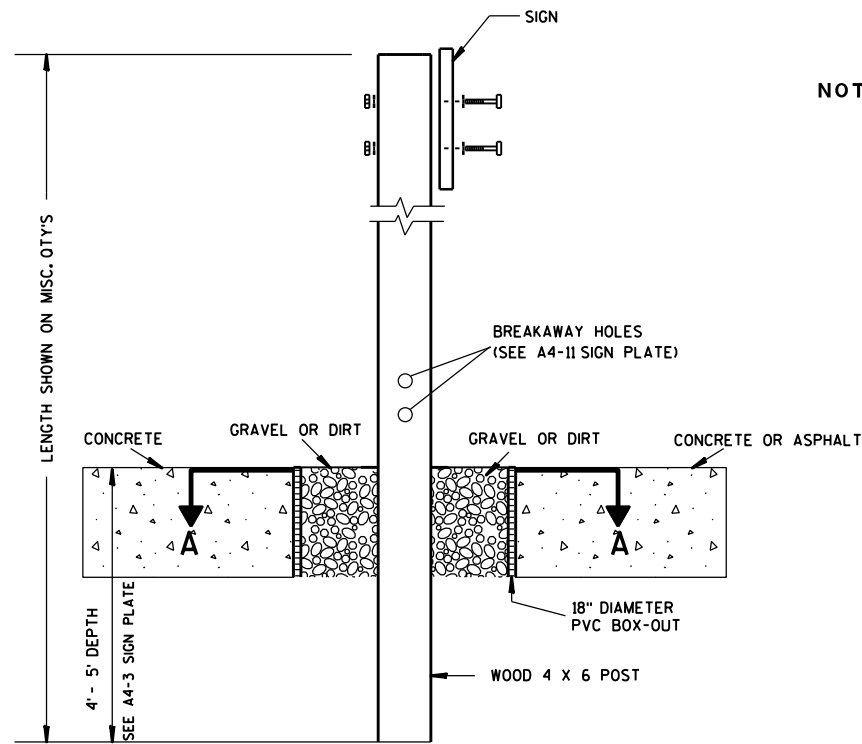
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

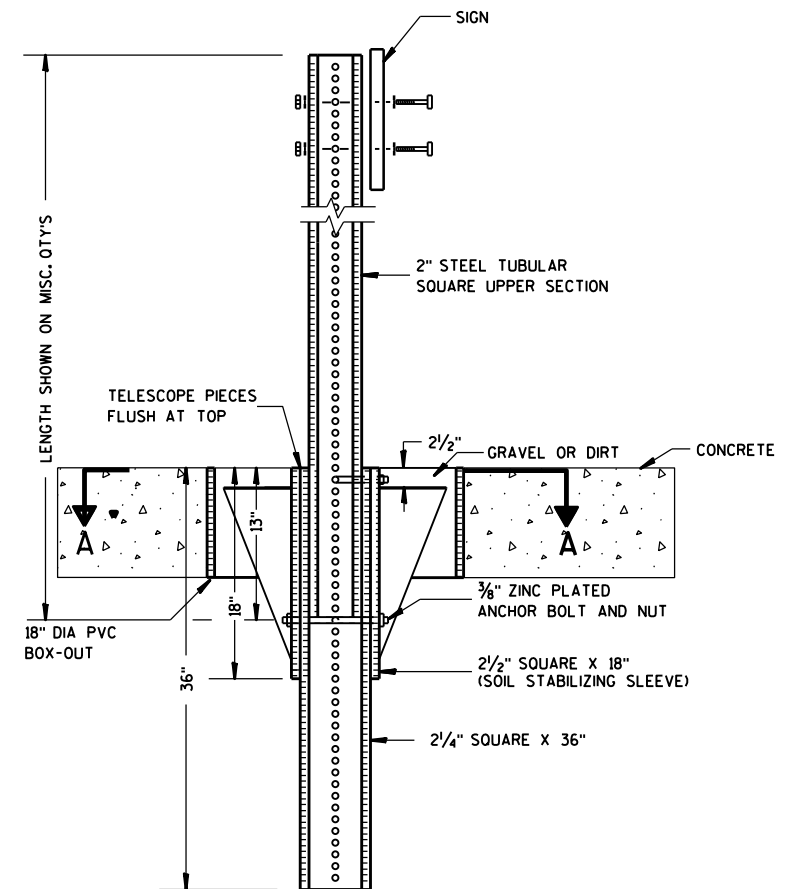
DATE 5/13/2020 PLATE NO. A4-3.22



ELEVATION VIEW

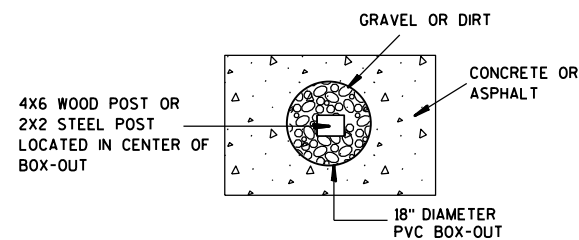
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES:**
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

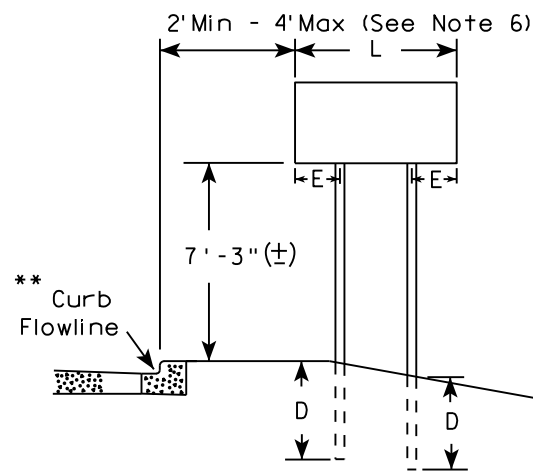
FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

| | |
|---|----------------------------------|
| SIGN POST BOX-OUTS A4-3B | |
| <small>WISCONSIN DEPT OF TRANSPORTATION</small> | |
| APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small> | |
| <small>DATE 1/27/14</small> | <small>PLATE NO. A4-3B.1</small> |

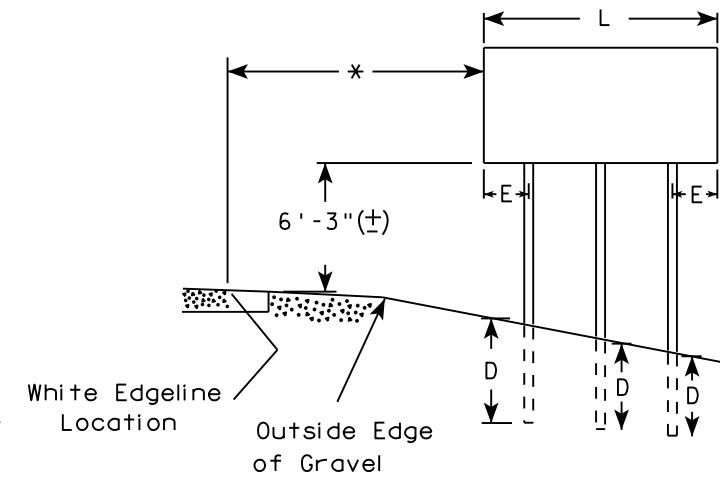
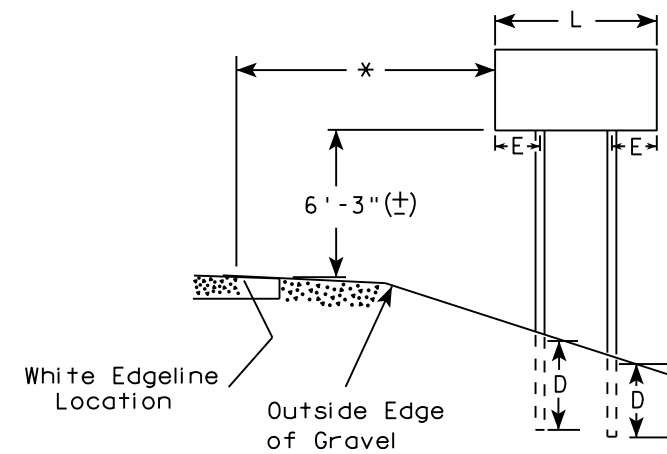
GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. 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" (±) 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" (±).

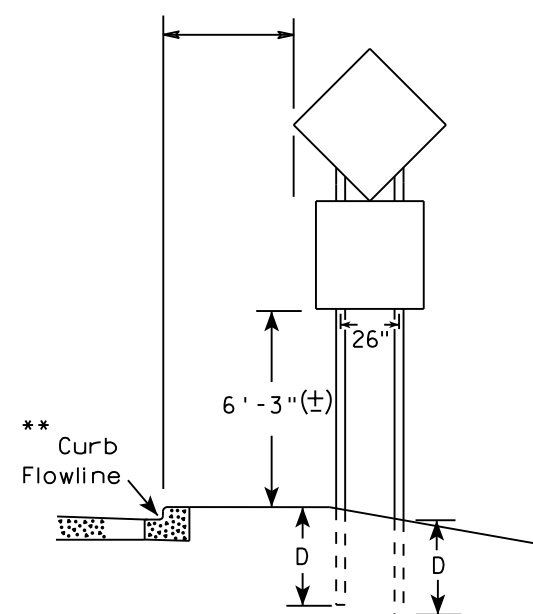
URBAN AREA



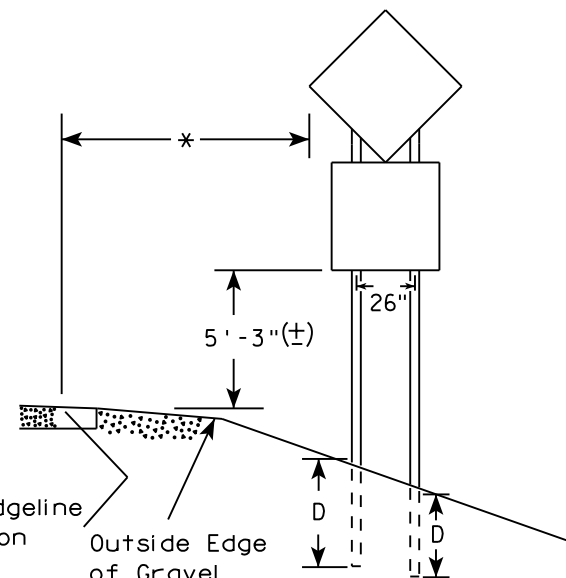
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

| SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED) | |
|--|-----|
| L | E |
| Greater than 48" Less than 60" | 12" |
| 60" to 108" | L/5 |

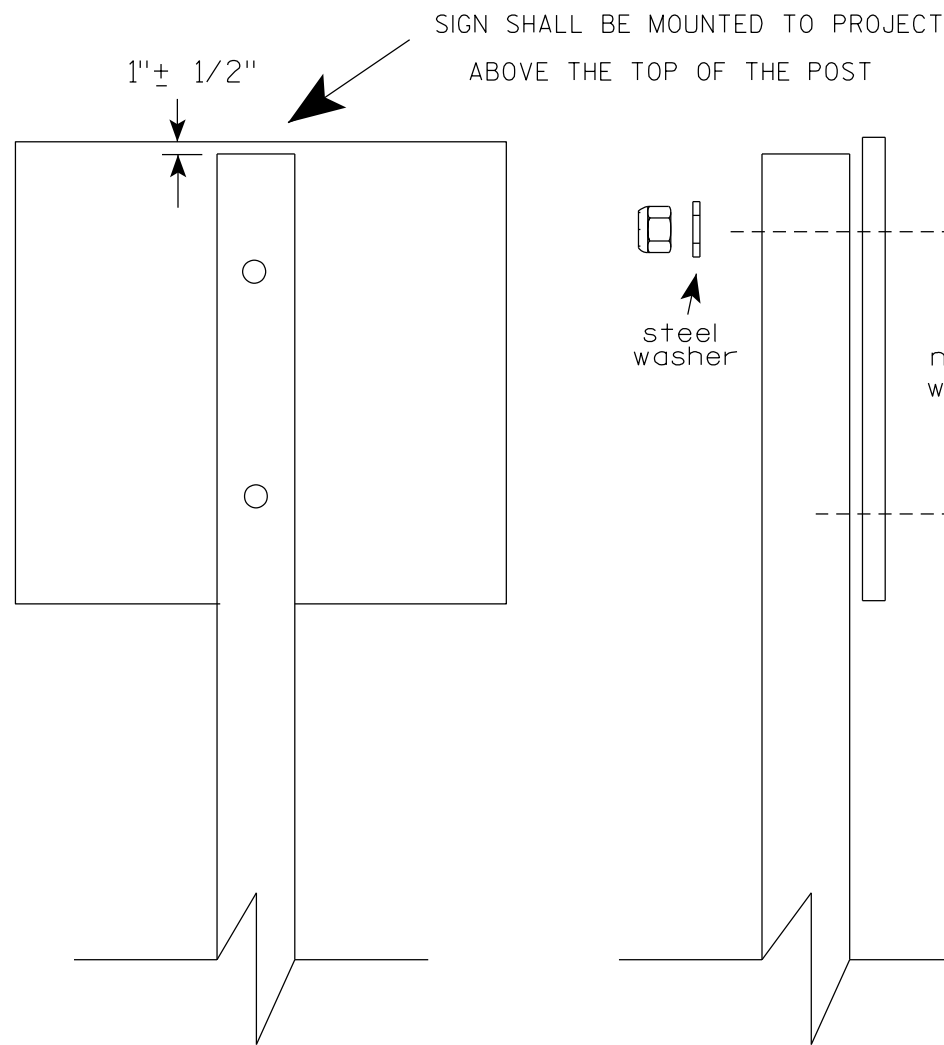
| SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED) | |
|--|-----|
| L | E |
| Greater than 108" to 144" | 12" |

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 8/21/17 PLATE NO. A4-4.15



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

- Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

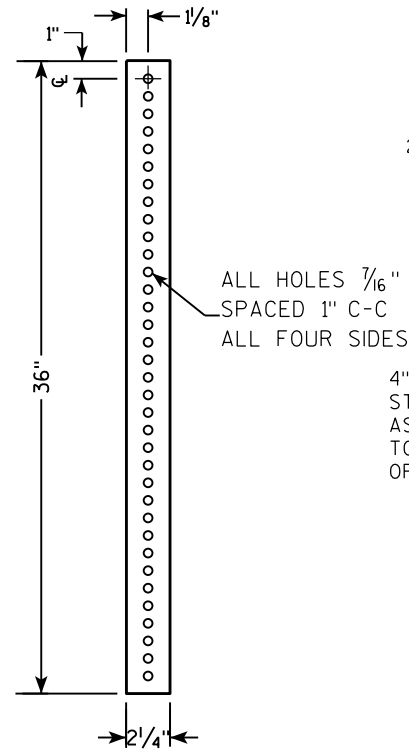
- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

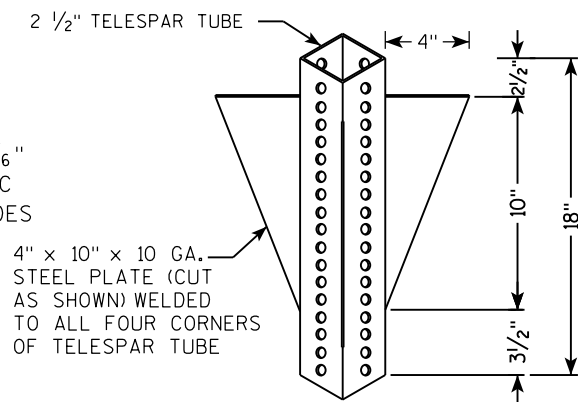
| | |
|----------------------------------|--|
| ATTACHMENT OF SIGNS TO POSTS | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R Rauch</i> For State Traffic Engineer |
| DATE 4/1/2020 | PLATE NO. A4-8.9 |

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

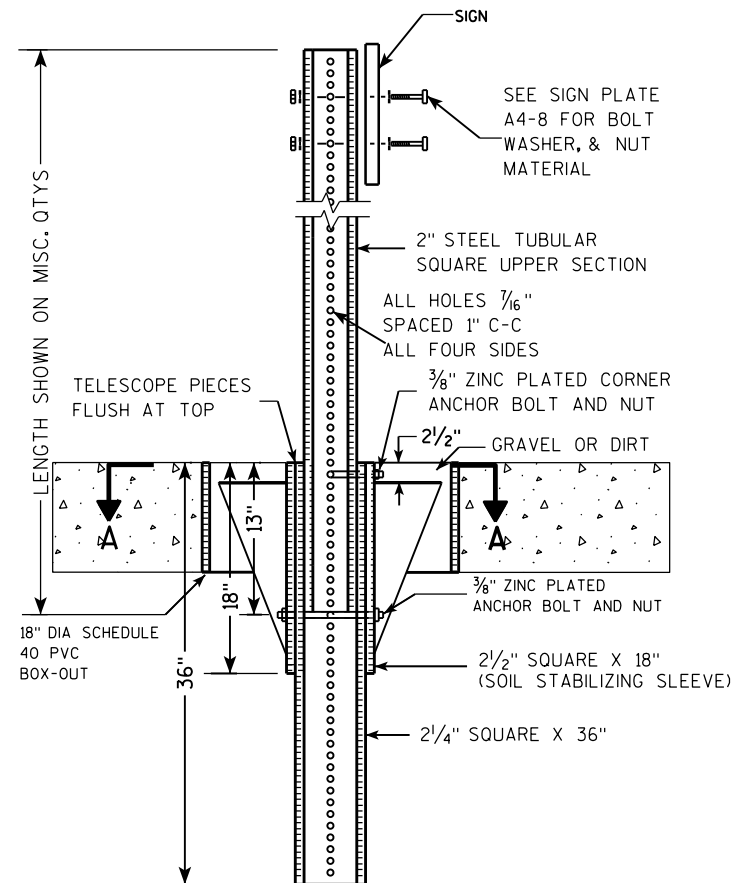
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



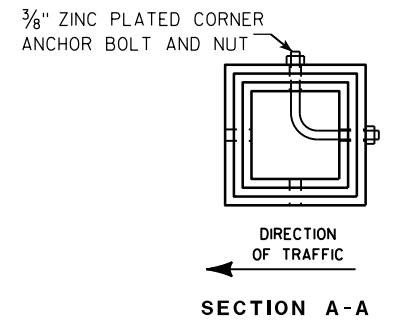
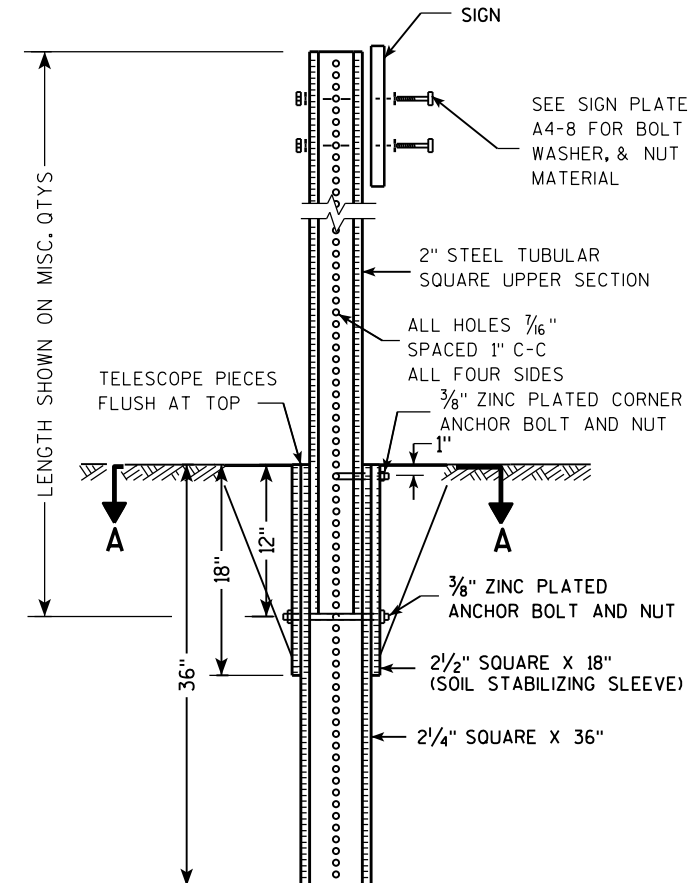
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



**DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)**



**DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)**



| Area of Sign Installation (Sq. Ft.) | Number of Required Posts |
|--|--------------------------|
| 9 or less | 1 |
| Greater than 9 less than or equal to 18 | 2 |
| Greater than 18 less than or equal to 27 | 3 |

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

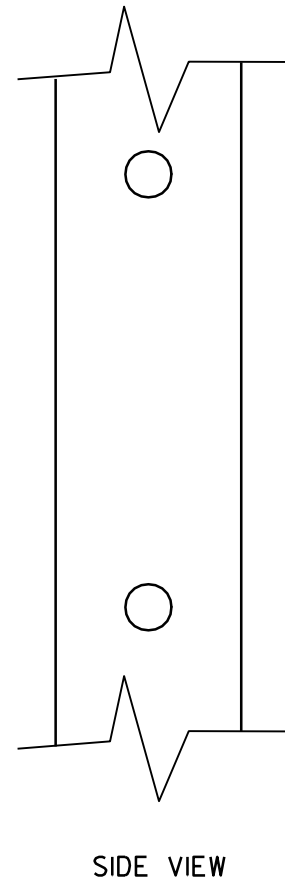
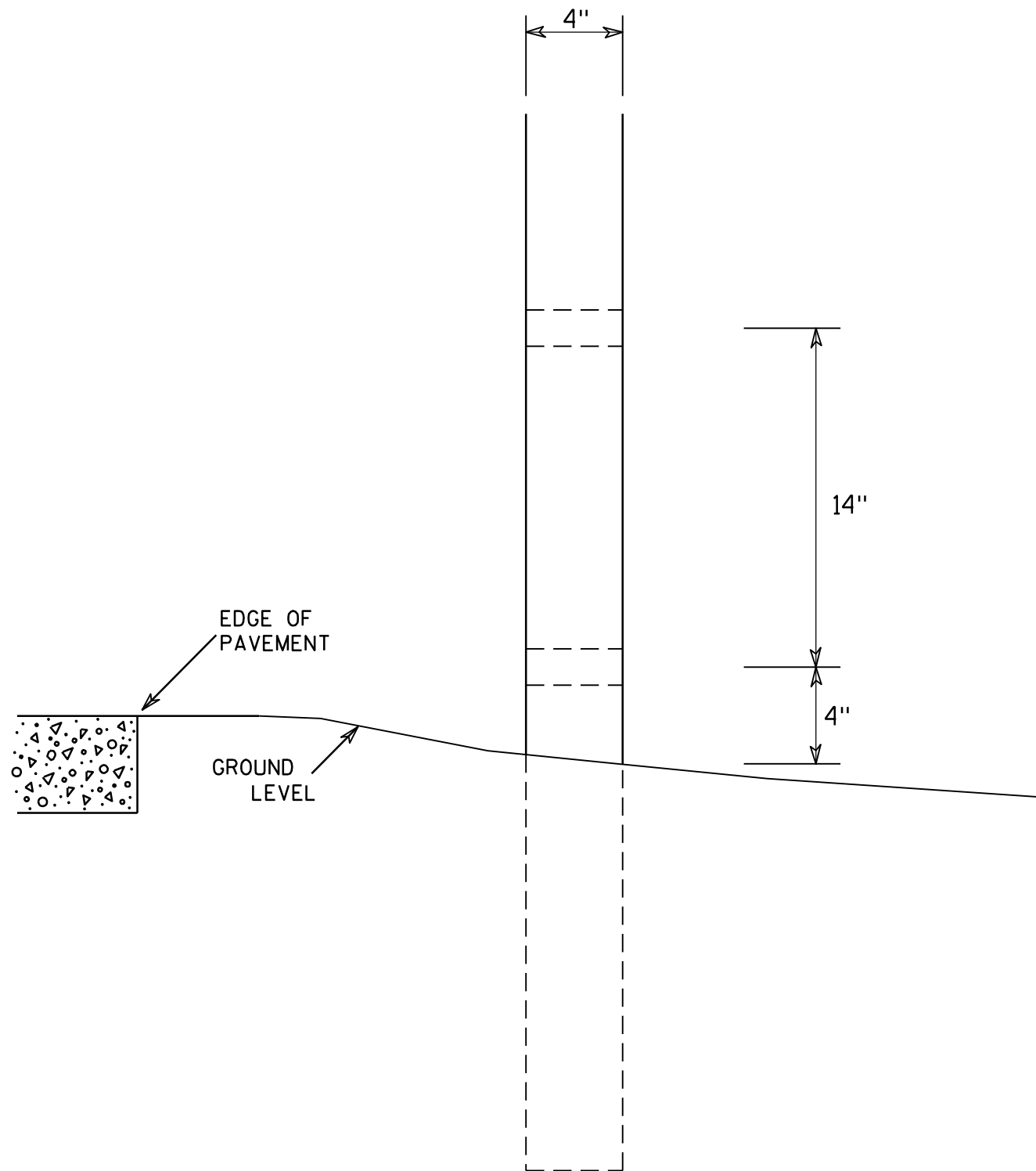
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



GENERAL NOTES

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

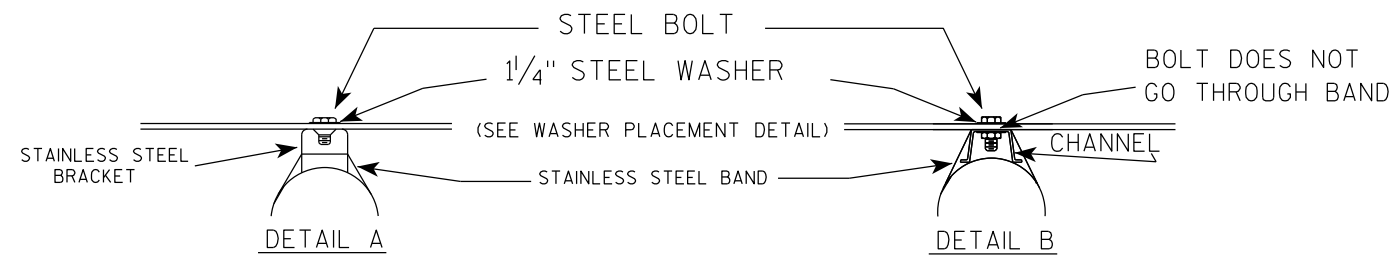
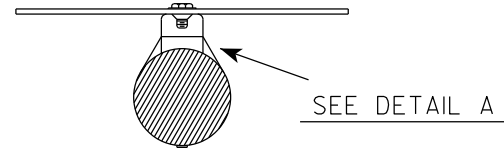
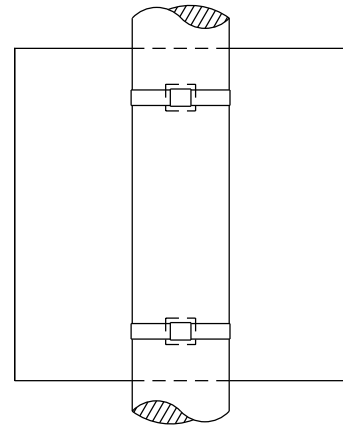
7

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| | |
|---|---|
| 4 X 6 WOOD POST MODIFICATIONS | |
| <i>WISCONSIN DEPT OF TRANSPORTATION</i> | |
| APPROVED | <i>Chester J. Spang</i> for State Traffic Engineer |
| DATE <u>3/27/97</u> | PLATE NO. <u>A4-11.2</u> |

BANDING

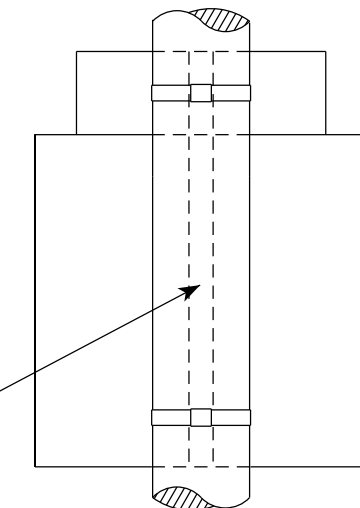
SINGLE SIGN



GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

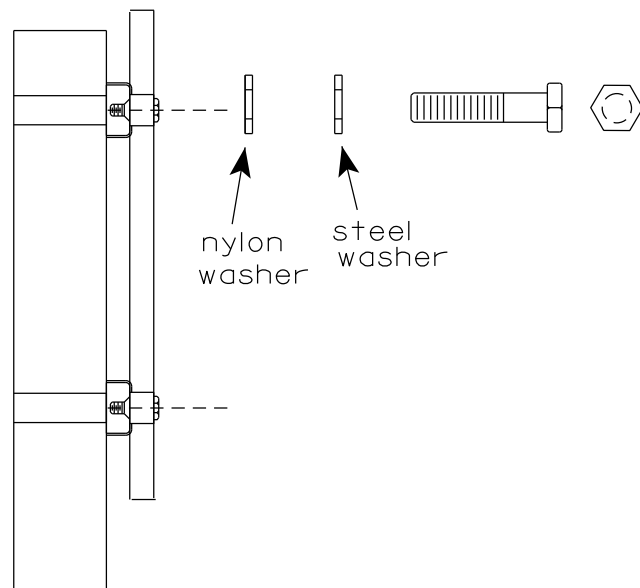
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



WASHER PLACEMENT



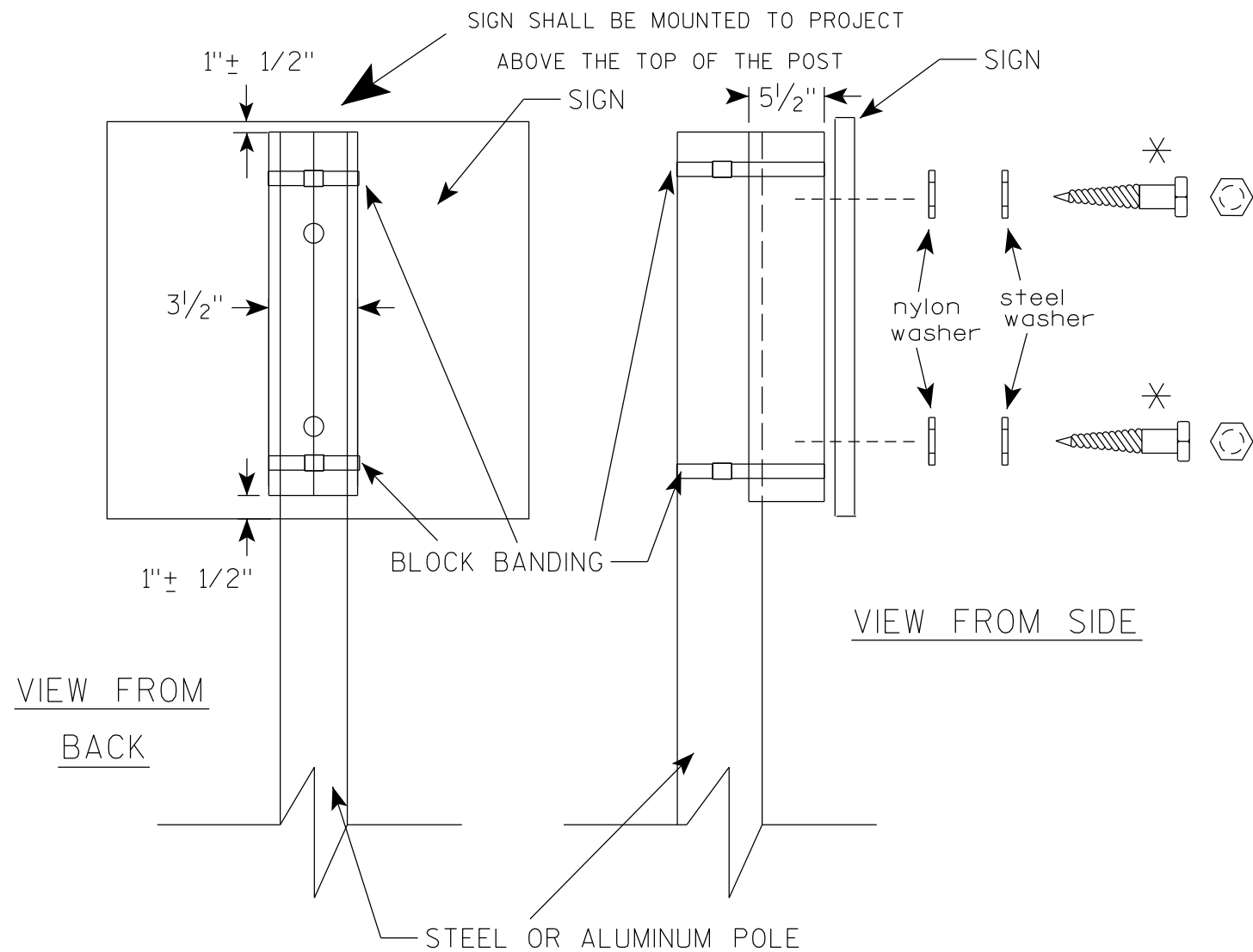
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

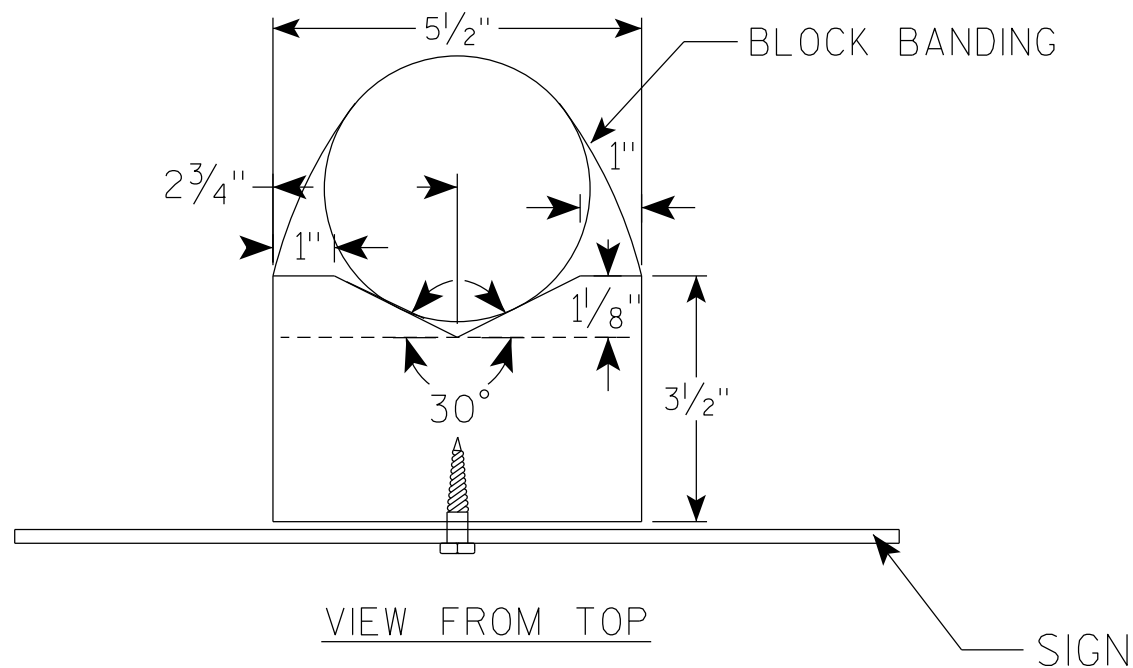
DATE 6/10/19 PLATE NO. A5-9.4



GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

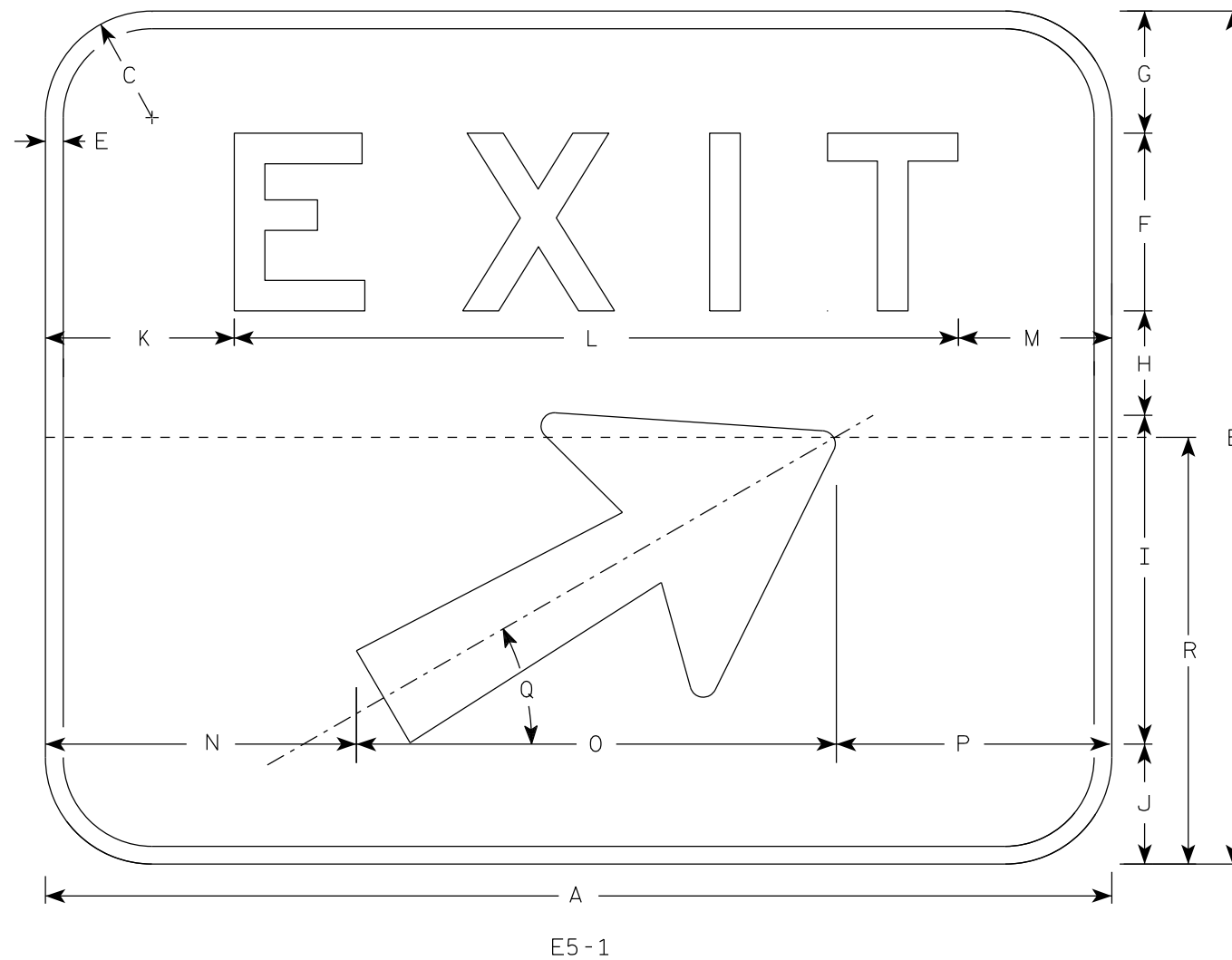
✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"



| | |
|--|--|
| BLOCK BANDING DETAIL (V-BLOCK OPTION) | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R Rauch</i> for State Traffic Engineer |
| DATE 6/10/19 | PLATE NO. A5-10.2 |

NOTES

1. Sign is Type II - Type H reflective
2. Color:
Background - Green
Message - White
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. When Base material for this sign is plywood sign shall be split into two separate pieces for the 72 x 60 size as shown on the detail by the dashed line (-----).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.
8. Size 3 E5-1 shall only be used in a Work Zone application with a Temporary Sign Support



E5-1

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|---|---|---|----|-------|-------|--------|-------|--------|--------|--------|--------|----|--------|-----|----|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 48 | 48 | 6 | | 1 | 10 | 6 7/8 | 5 7/8 | 18 1/2 | 6 3/4 | 8 1/2 | 31 1/8 | 8 3/8 | 11 1/2 | 27 | 9 1/2 | 30° | 30 | | | | | | | | | 16.0 |
| 4 | 60 | 48 | 6 | | 1 | 10 | 6 7/8 | 5 7/8 | 18 1/2 | 6 3/4 | 10 5/8 | 40 3/4 | 8 5/8 | 17 1/2 | 27 | 15 1/2 | 30° | 30 | | | | | | | | | 20.0 |
| 5 | 72 | 60 | 6 | | 1 | 12 | 9 3/4 | 10 | 18 1/2 | 9 3/4 | 13 1/4 | 48 1/2 | 10 1/4 | 23 1/2 | 27 | 21 1/2 | 30° | 30 | | | | | | | | | 30.0 |

STANDARD SIGN
E5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

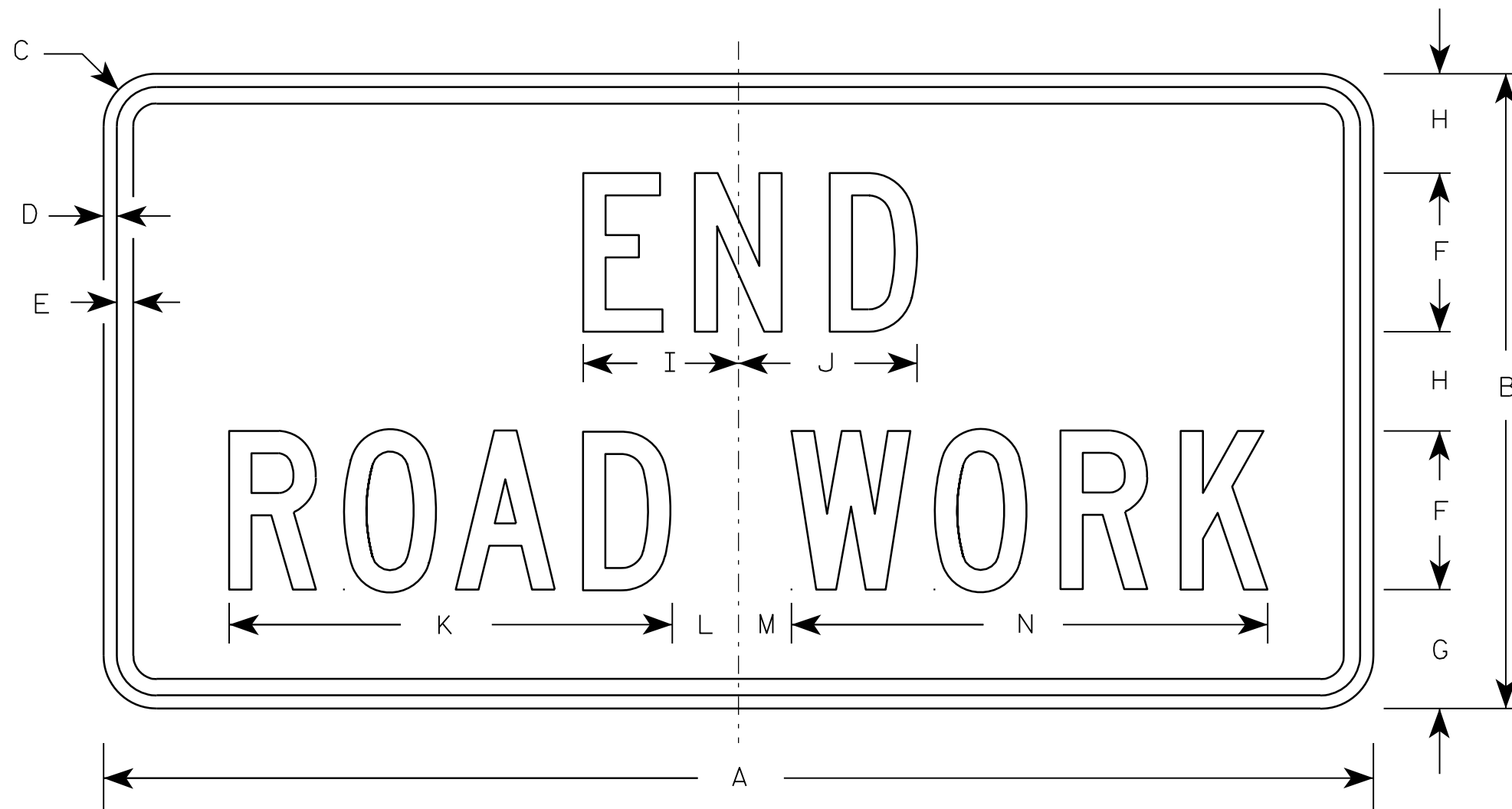
DATE 7/26/18 PLATE NO. E5-1.10

7

7

NOTES

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



G20-2A

7

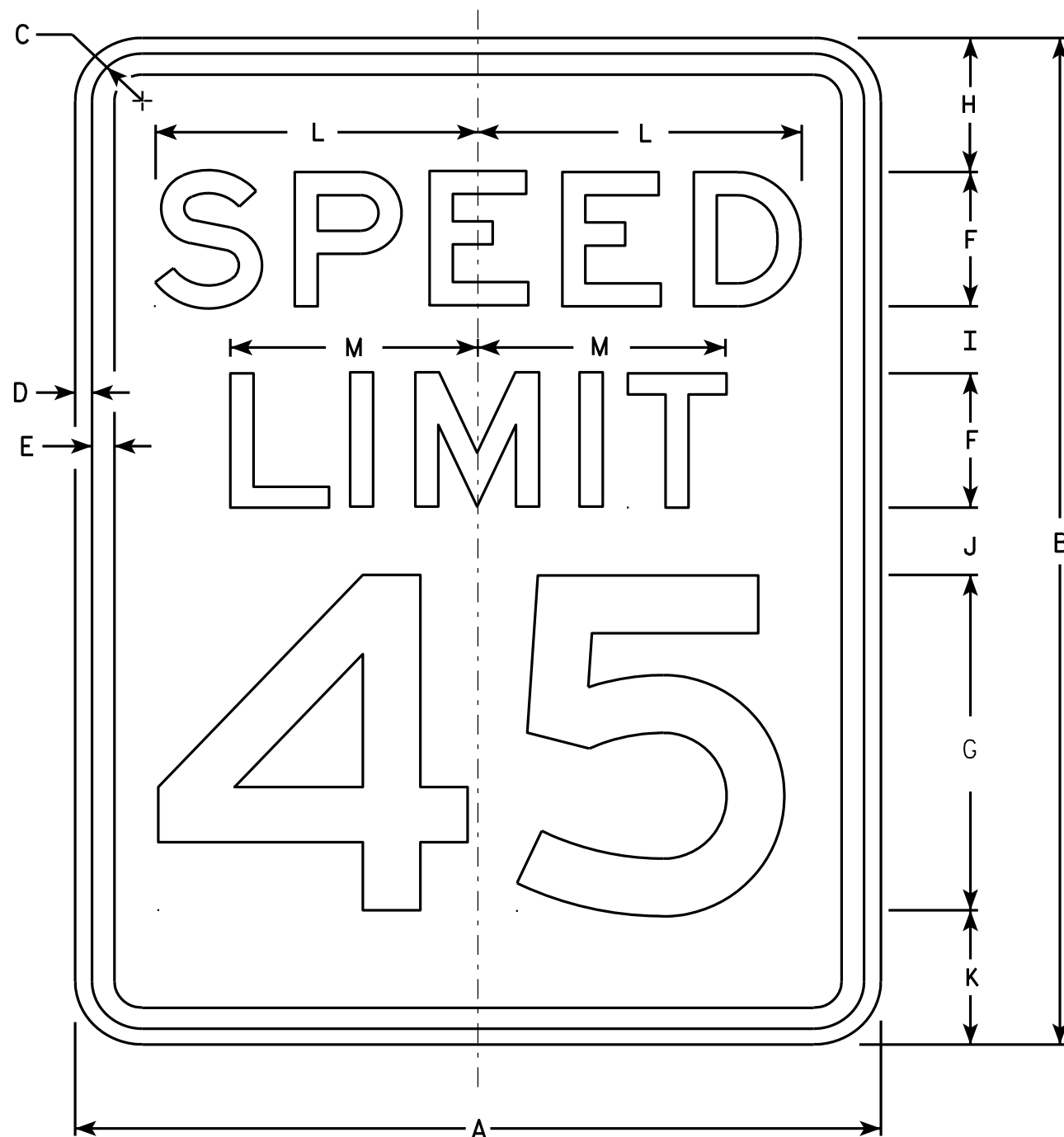
7

Metric equivalent for this sign is:

| SIZE | |
|------|------------------|
| 1 | 900 mm X 450 mm |
| 2 | 1200 mm X 600 mm |
| 3 | 1200 mm X 600 mm |
| 4 | 1200 mm X 600 mm |
| 5 | 1200 mm X 600 mm |

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. | Area sq. |
|------|----|----|-------|-----|-----|---|-------|-------|-------|-------|--------|-------|-------|--------|---|---|---|---|---|---|---|---|---|---|---|---|--------------|----------|
| 1 | 36 | 18 | 1 1/8 | 3/8 | 1/2 | 4 | 3 3/4 | 2 1/2 | 4 1/8 | 4 1/8 | 11 1/8 | 2 | 1 | 12 1/8 | | | | | | | | | | | | | 4.5 | 0.41 |
| 2 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 | | | | | | | | | | | | | 8.0 | 0.72 |
| 3 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 | | | | | | | | | | | | | 8.0 | 0.72 |
| 4 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 | | | | | | | | | | | | | 8.0 | 0.72 |
| 5 | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 | | | | | | | | | | | | | 8.0 | 0.72 |

| | |
|----------------------------------|---|
| STANDARD SIGN G20-2A | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Rauch</i> For State Traffic Engineer |
| DATE 9/30/09 | PLATE NO. G20-2A.8 |



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

7

7

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|----|---|-------|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 18 | 24 | 1 1/8 | 3/8 | 1/2 | 3 | 8 | 3 | 2 | 2 | 3 | 7 1/4 | 5 1/2 | | | | | | | | | | | | | | 3.0 |
| 2S | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 4 | 10 | 3 | 2 1/4 | 3 3/8 | 3 3/8 | 9 5/8 | 7 3/8 | | | | | | | | | | | | | | 5.0 |
| 2M | 30 | 36 | 1 3/8 | 1/2 | 5/8 | 5 | 12 | 5 | 2 1/2 | 2 1/2 | 4 | 12 | 9 1/4 | | | | | | | | | | | | | | 7.5 |
| 3 | 36 | 48 | 1 3/8 | 1/2 | 5/8 | 6 | 14 | 6 | 5 | 5 | 6 | 14 3/8 | 11 | | | | | | | | | | | | | | 12.0 |
| 4 | 36 | 48 | 1 3/8 | 1/2 | 5/8 | 6 | 14 | 6 | 5 | 5 | 6 | 14 3/8 | 11 | | | | | | | | | | | | | | 12.0 |
| 5 | 48 | 60 | 2 1/4 | 3/4 | 1 | 8 | 20 | 6 | 4 1/2 | 6 3/4 | 6 3/4 | 19 1/4 | 14 5/8 | | | | | | | | | | | | | | 20.0 |

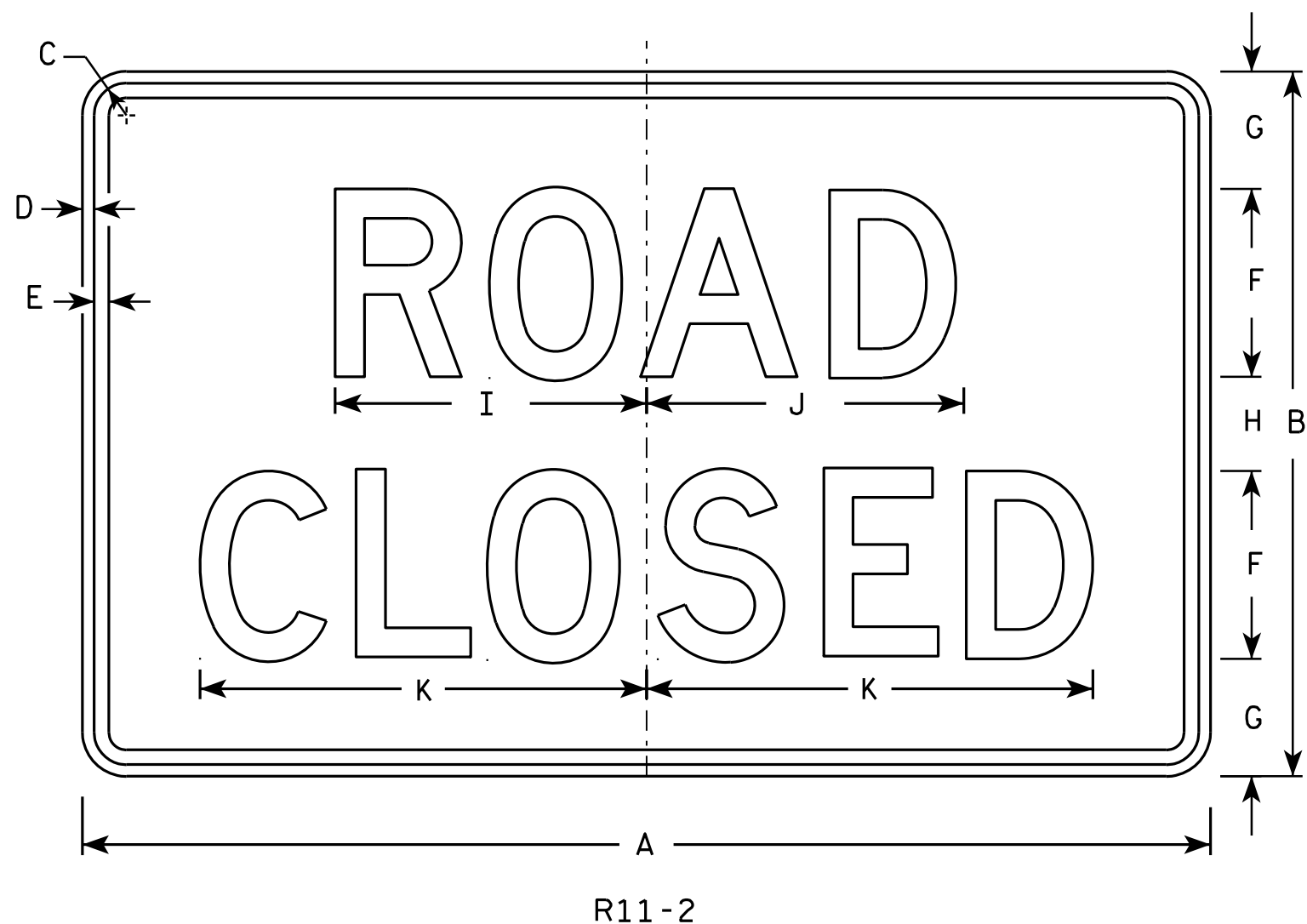
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

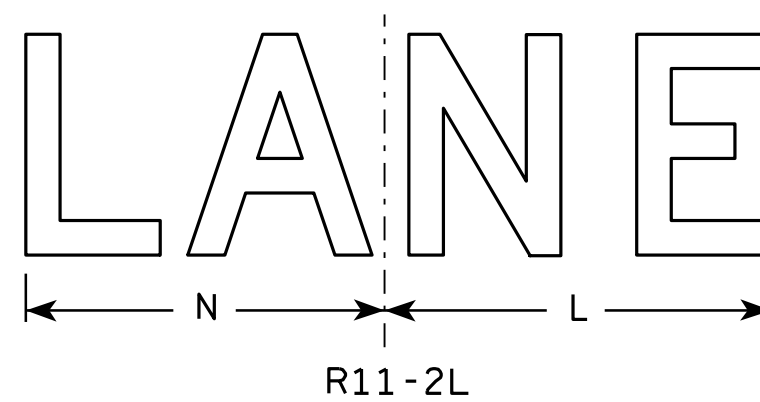
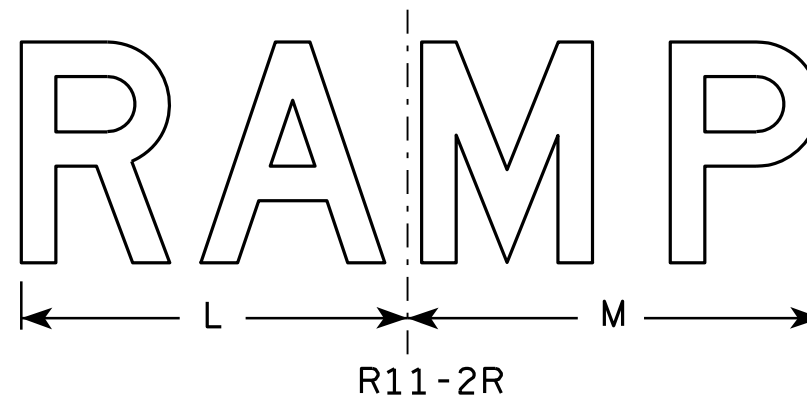
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



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7

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|---|---|--------|--------|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 1/2 | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |
| 2M | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 1/2 | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |
| 3 | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 1/2 | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |
| 4 | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 1/2 | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |
| 5 | 48 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 5 | 4 | 13 1/4 | 13 1/2 | 19 | 14 | 15 | 13 | | | | | | | | | | | | | 10.0 |

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

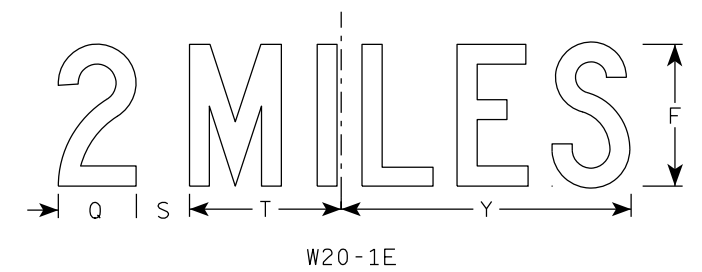
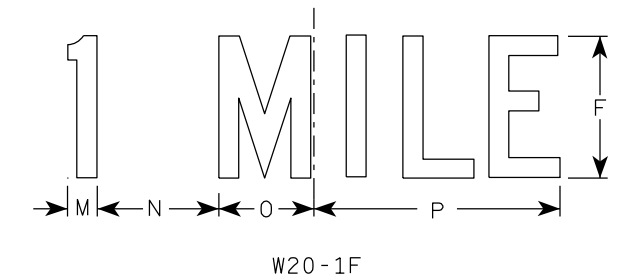
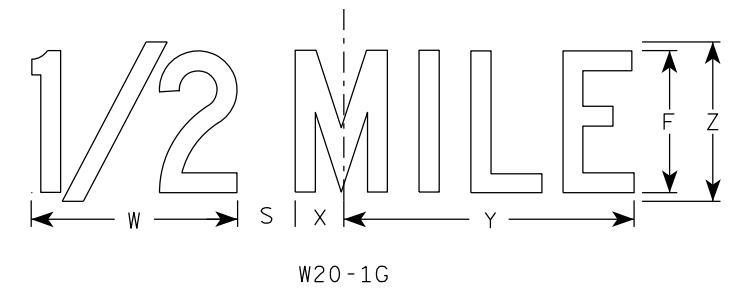
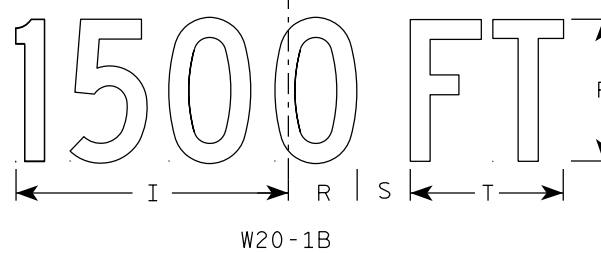
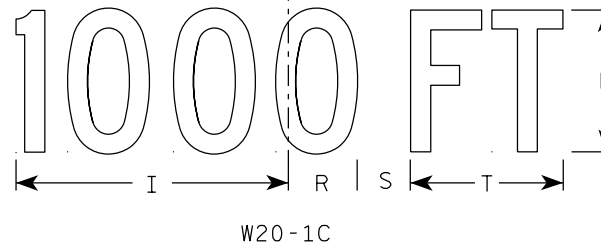
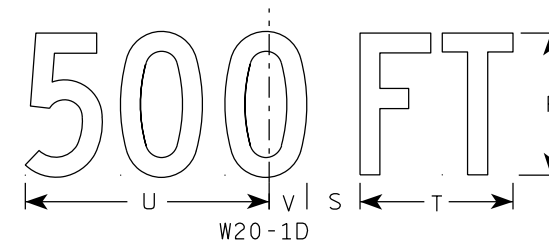
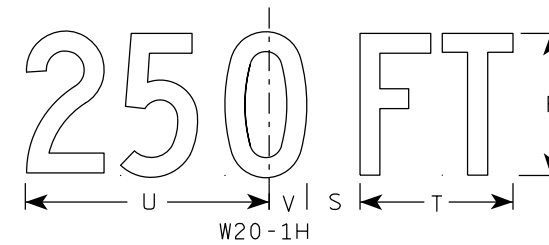
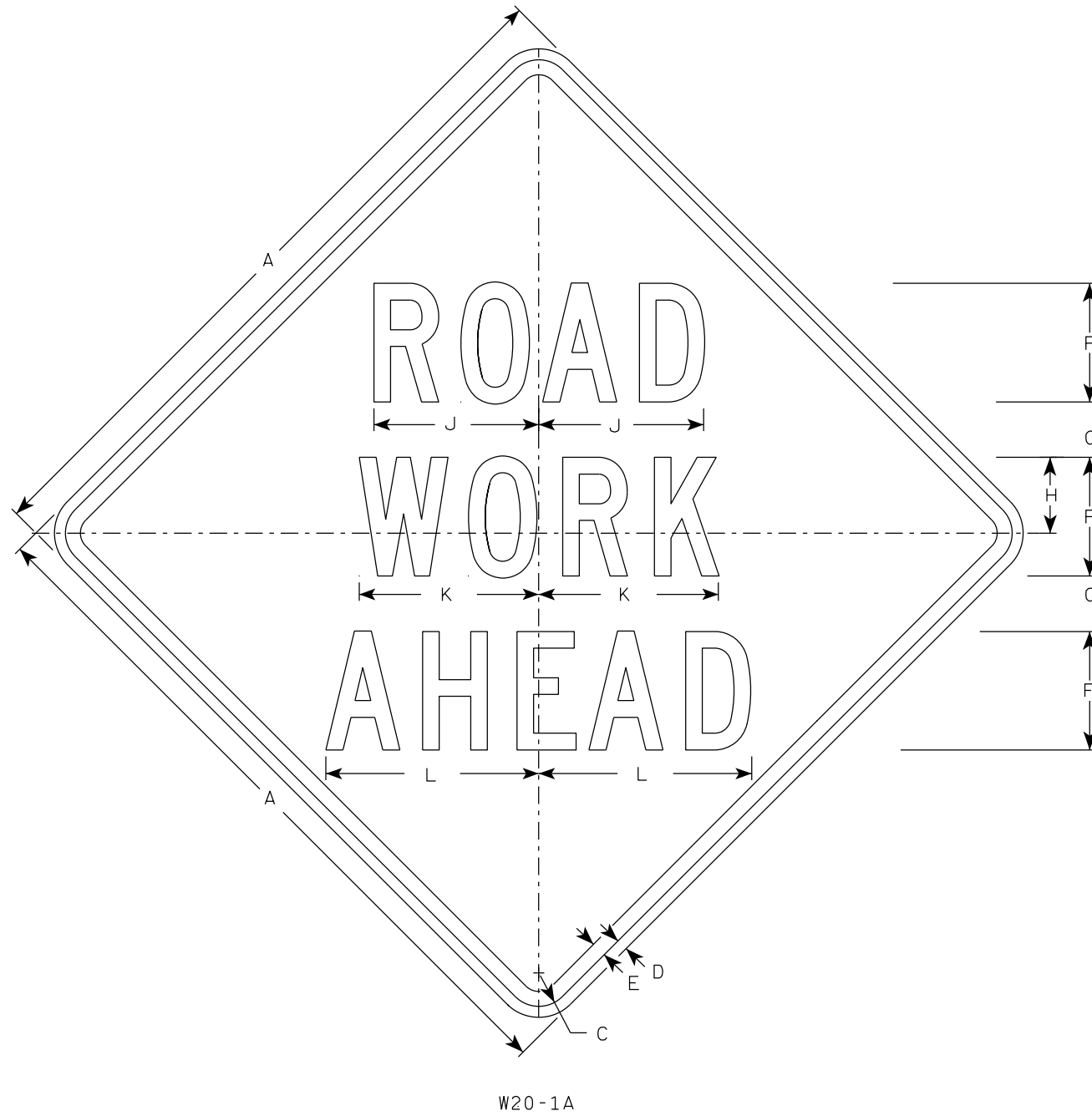
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



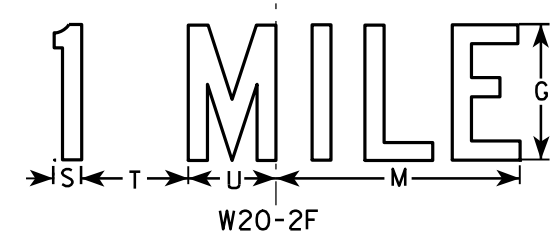
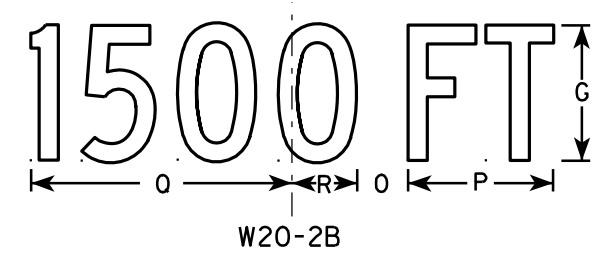
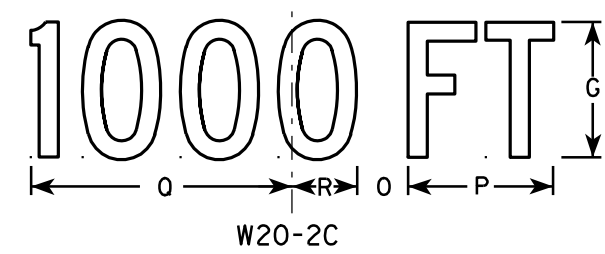
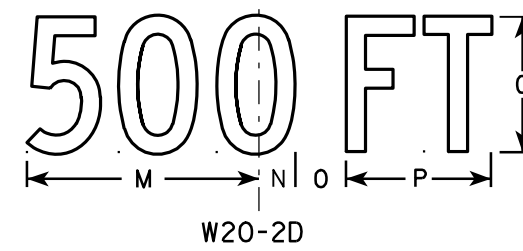
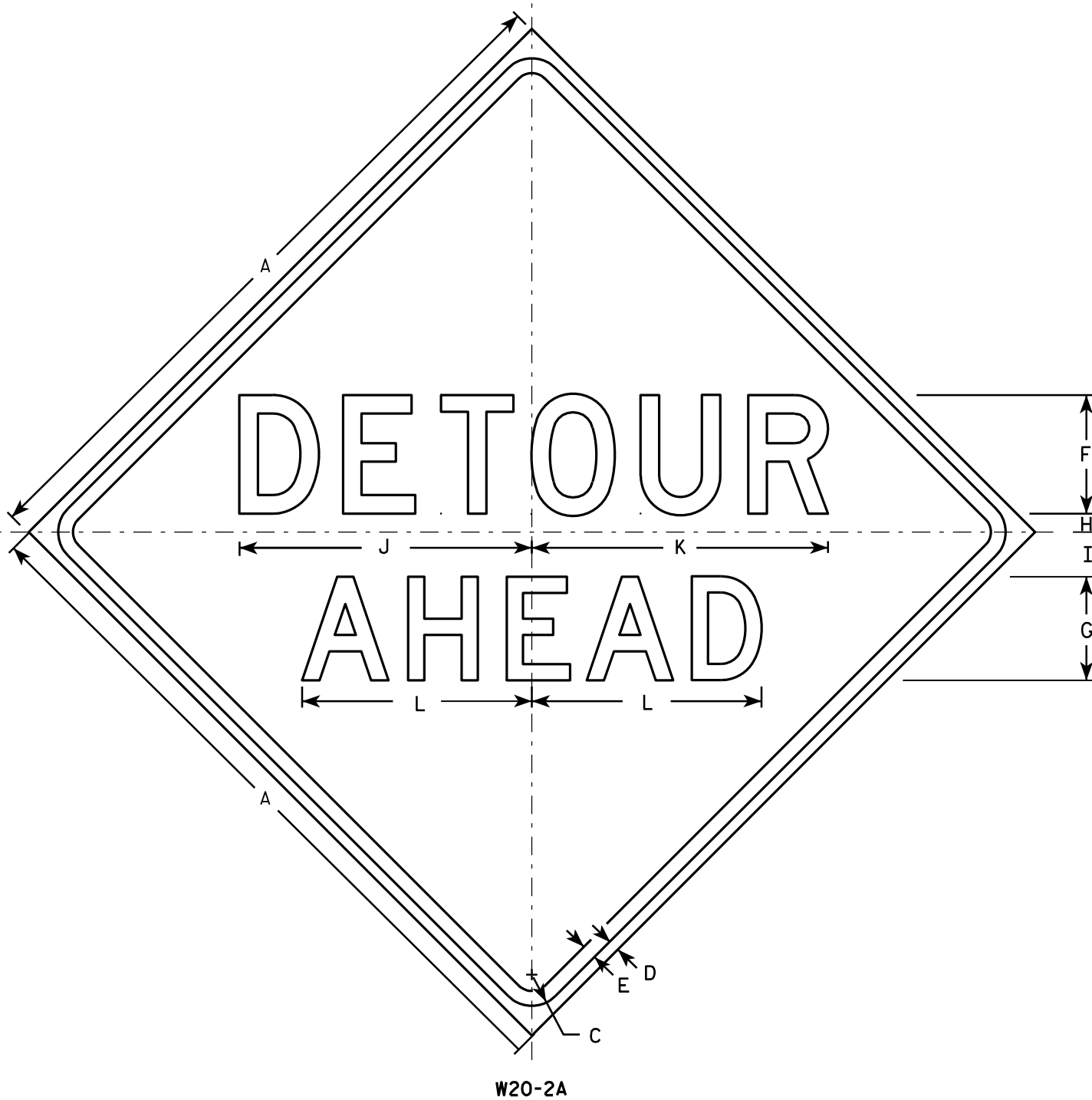
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|--------|---|--------------|
| 1 | 36 | | 1 5/8 | 5/8 | 3/4 | 5 | 2 5/8 | 3 1/4 | 10 1/8 | 7 | 7 5/8 | 8 7/8 | 1 1/8 | 4 1/2 | 3 1/2 | 9 | 3 1/4 | 2 1/2 | 2 1/4 | 5 5/8 | 9 | 1 3/8 | 8 | 1 3/4 | 10 3/4 | 6 | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3 | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3 | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3 | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3 | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3 | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0 |

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11



NOTES

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

7

7

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|---|-------|-------|--------|----|--------|----|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|---|---|--------------|
| 1 | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 5 | 1 | 2 1/4 | 14 3/4 | 15 | 11 5/8 | 9 | 1 3/8 | 1 7/8 | 5 5/8 | 10 1/8 | 2 1/2 | 1 1/8 | 4 1/2 | 3 1/2 | 8 | 1 3/4 | 10 3/4 | | | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 3/4 | 20 | 15 1/2 | 12 | 1 7/8 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 1 1/2 | 6 | 4 5/8 | 10 5/8 | 2 3/8 | 14 3/8 | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 3/4 | 20 | 15 1/2 | 12 | 1 7/8 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 1 1/2 | 6 | 4 5/8 | 10 5/8 | 2 3/8 | 14 3/8 | | | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 3/4 | 20 | 15 1/2 | 12 | 1 7/8 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 1 1/2 | 6 | 4 5/8 | 10 5/8 | 2 3/8 | 14 3/8 | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 3/4 | 20 | 15 1/2 | 12 | 1 7/8 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 1 1/2 | 6 | 4 5/8 | 10 5/8 | 2 3/8 | 14 3/8 | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 7 | 1 1/4 | 3 | 19 3/4 | 20 | 15 1/2 | 12 | 1 7/8 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 1 1/2 | 6 | 4 5/8 | 10 5/8 | 2 3/8 | 14 3/8 | | | 16.0 |

STANDARD SIGN
W20-2A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Raub*
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

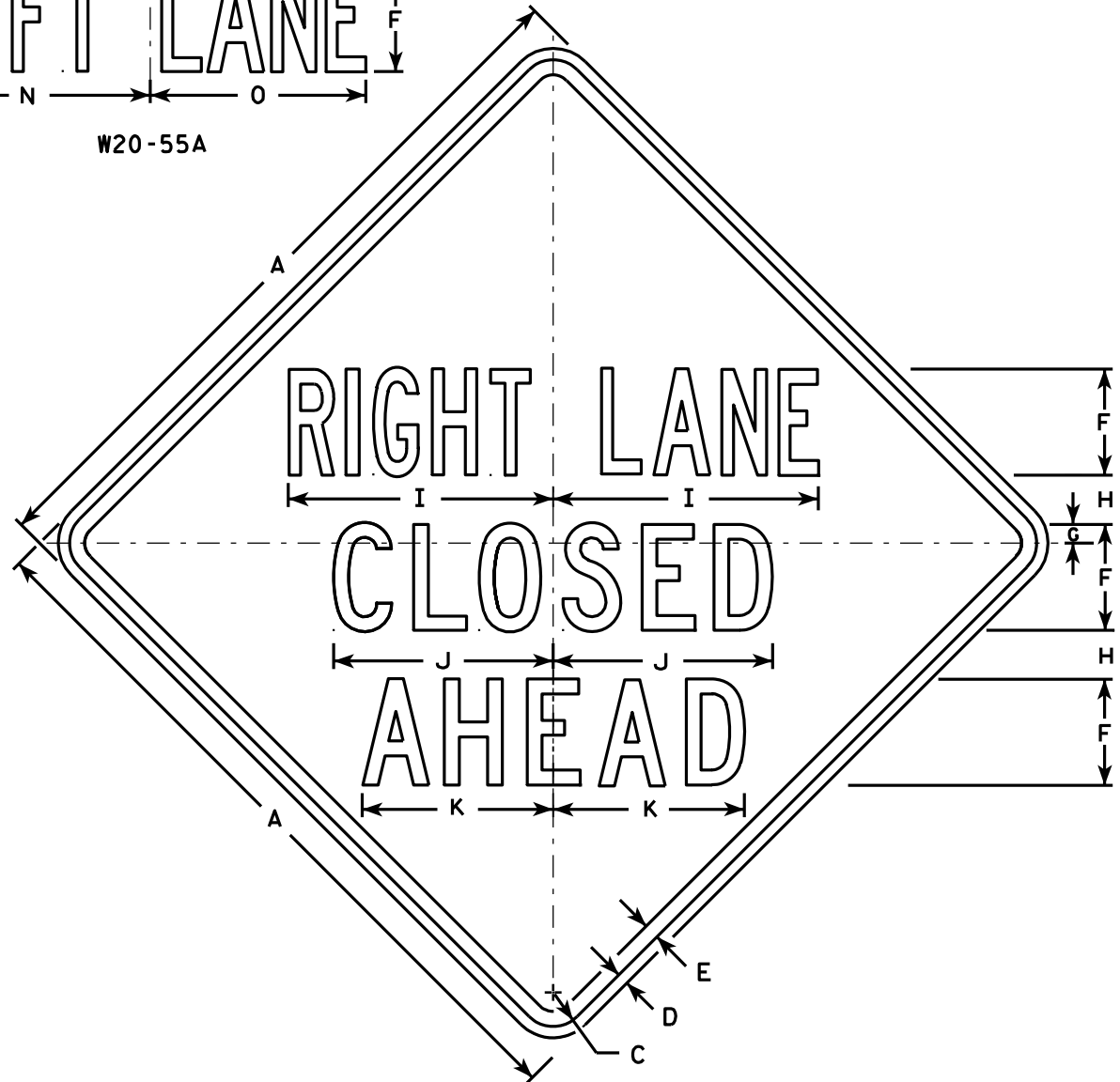
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

CENTER LANE

W20-56A

LEFT LANE

W20-55A



W20-5A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. ".....LANE" is Series B.
All other copy is Series C.

500 FT

W20-5D

1000 FT

W20-5C

1500 FT

W20-5B

1/2 MILE

W20-5G

1 MILE

W20-5F

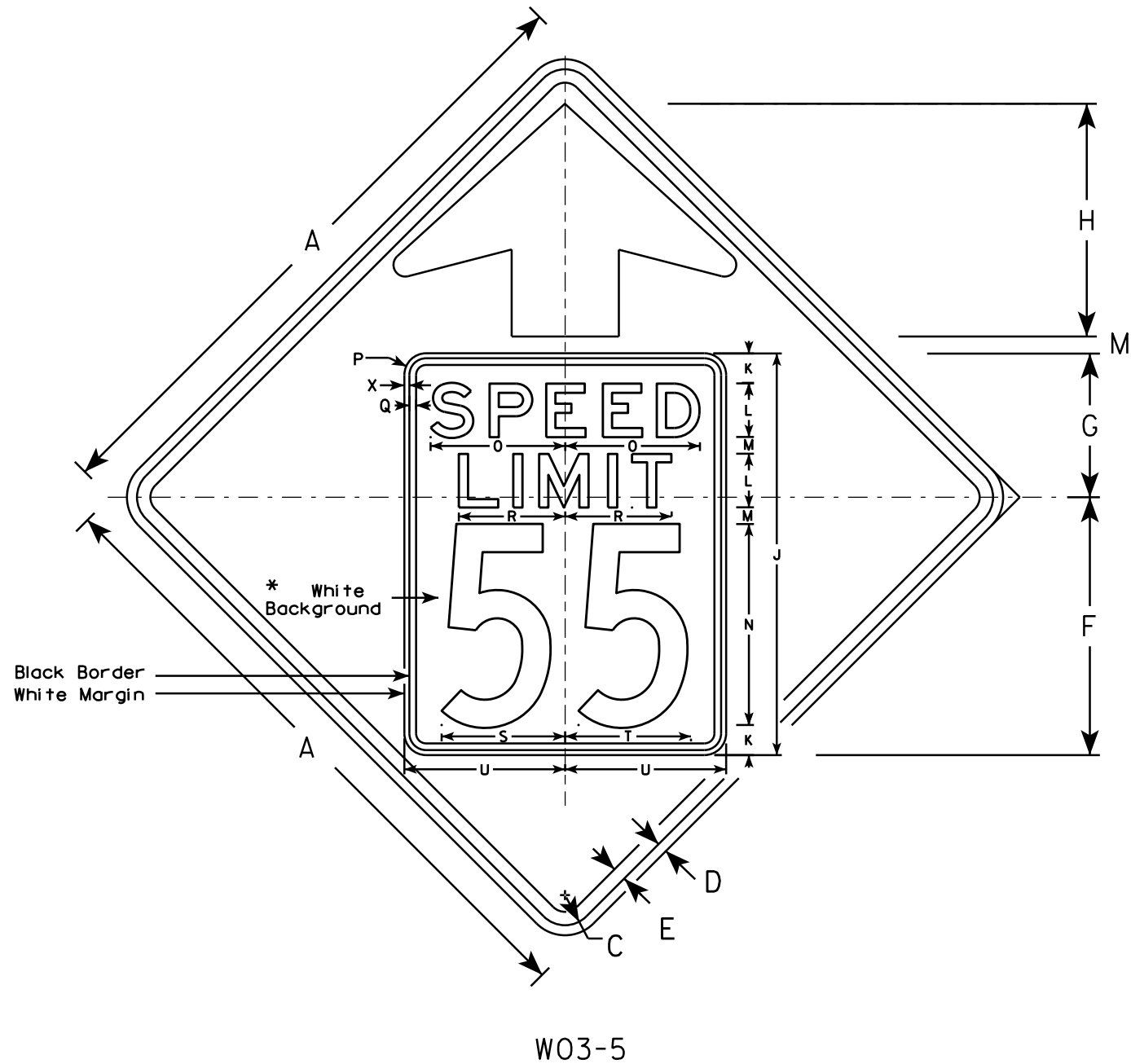
7

7

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|--------|--------|--------|--------|--------|----|--------|-------|-------|-------|-------|----|-------|-------|--------|-------|-------|--------|-----------------|
| 1 | 36 | 6 | 1 5/8 | 5/8 | 3/4 | 5 | 7/8 | 2 1/2 | 13 1/8 | 10 3/4 | 9 1/2 | 14 1/4 | 13 5/8 | 12 | 12 | 1 3/8 | 1 1/8 | 4 1/2 | 3 1/2 | 9 | 1 7/8 | 5 5/8 | 10 1/8 | 2 1/2 | 1 3/4 | 8 | 9.0 |
| 2S | 48 | 8 | 2 1/4 | 3/4 | 1 | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19 | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6 | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0 |
| 2M | 48 | 8 | 2 1/4 | 3/4 | 1 | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19 | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6 | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0 |
| 3 | 48 | 8 | 2 1/4 | 3/4 | 1 | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19 | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6 | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0 |
| 4 | 48 | 8 | 2 1/4 | 3/4 | 1 | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19 | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6 | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0 |
| 5 | 48 | 8 | 2 1/4 | 3/4 | 1 | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19 | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6 | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0 |

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

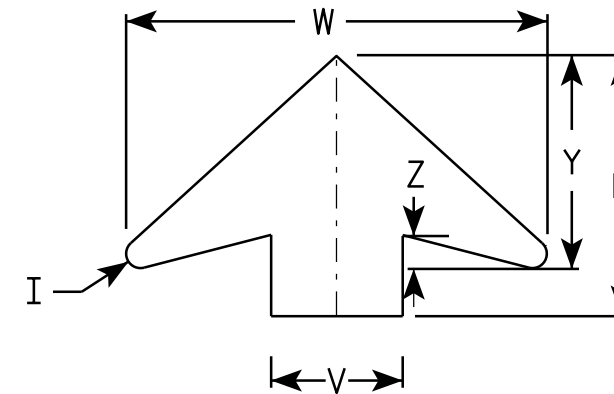
STANDARD SIGN
W20-5A, B, C, D, F & G
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R Rauch*
For State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-5.11



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - ORANGE*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|--------|--------|--------|-----|----|-------|---|-------|----|-------|-------|-----|-------|-------|-------|----|---|--------|-----|-------|-------|--------------|
| 1 | 36 | | 1 5/8 | 5/8 | 3/4 | 14 1/2 | 9 1/2 | 11 1/2 | 5/8 | 24 | 2 | 3 | 1 | 12 | 7 1/8 | 1 1/2 | 3/8 | 5 3/4 | 7 1/4 | 7 1/8 | 9 | 6 | 19 1/4 | 3/8 | 9 3/4 | 1 5/8 | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

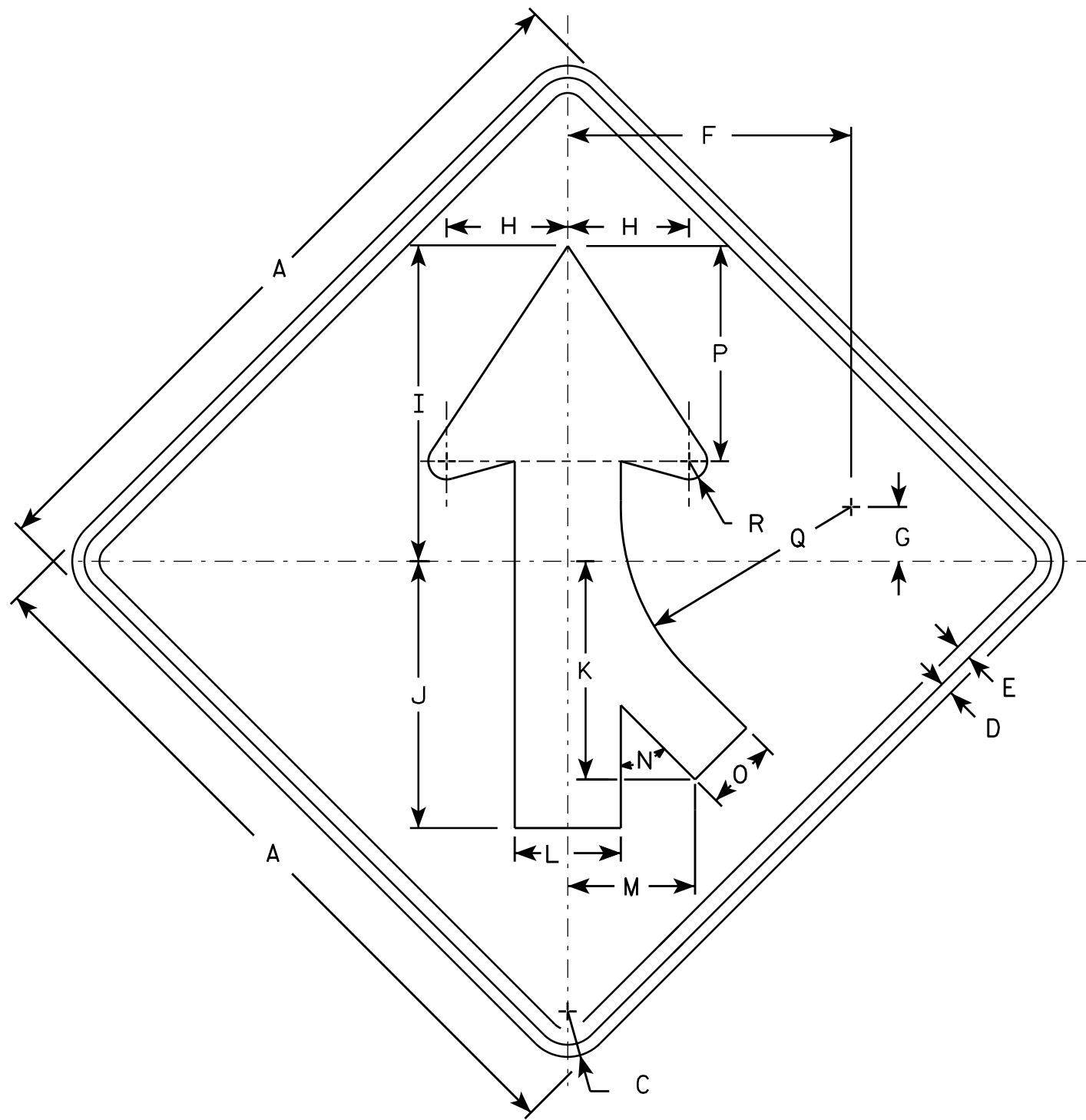
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W03-5.1

PROJECT NO:

SHEET NO:

E



W04-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. 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. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

7

7

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|--------|-------|---|--------|--------|--------|-------|-------|-----|-------|--------|--------|-------|---|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | | 1 5/8 | 5/8 | 3/4 | 14 | 2 3/4 | 6 | 15 3/4 | 13 1/4 | 10 1/4 | 5 1/4 | 6 3/8 | 45° | 3 5/8 | 10 5/8 | 11 3/8 | 7/8 | | | | | | | | | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | | | | | | | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | | | | | | | | | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | | | | | | | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | | | | | | | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | | | | | | | | | 16.0 |

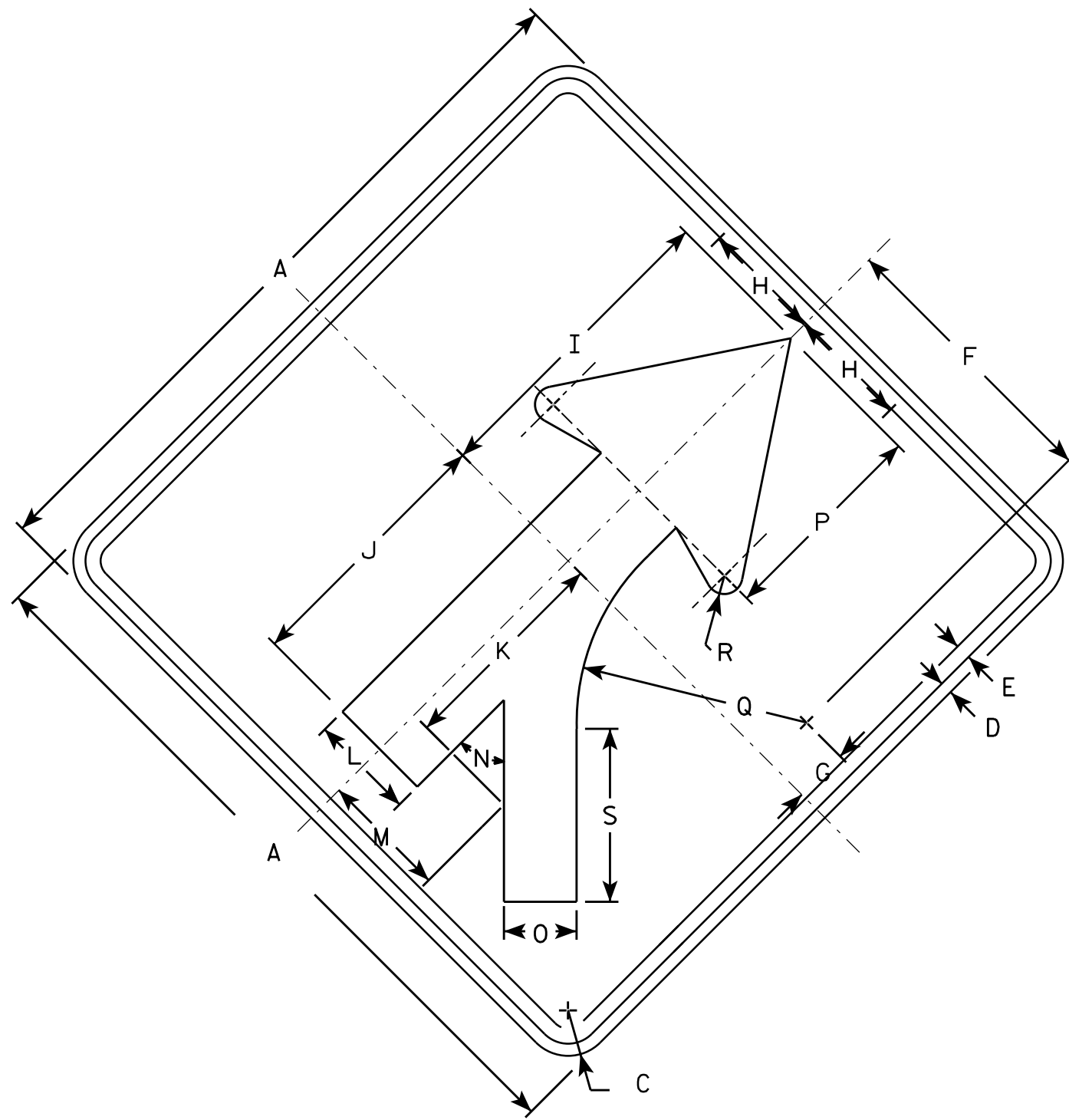
STANDARD SIGN
W04-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W04-1.1

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. 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.

W04-5

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|--------|-------|---|--------|--------|--------|-------|-------|-----|-------|--------|--------|-------|--------|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | | 1 5/8 | 5/8 | 3/4 | 14 | 2 3/4 | 6 | 15 3/4 | 13 1/4 | 10 1/4 | 5 1/4 | 6 3/8 | 45° | 3 5/8 | 10 5/8 | 11 3/8 | 7/8 | 8 1/2 | | | | | | | | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | 11 3/8 | | | | | | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | 11 3/8 | | | | | | | | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | 11 3/8 | | | | | | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | 11 3/8 | | | | | | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 18 3/4 | 3 5/8 | 8 | 20 1/2 | 17 1/2 | 14 3/8 | 7 | 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 | 11 3/8 | | | | | | | | 16.0 |

STANDARD SIGN
W04-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew P. Rauch*
For State Traffic Engineer

DATE 4/28/16 PLATE NO. W04-5.1

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-30
 OPERATING RATING: HS-51
 WISCONSIN STANDARD PERMIT
 VEHICLE (WIS-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

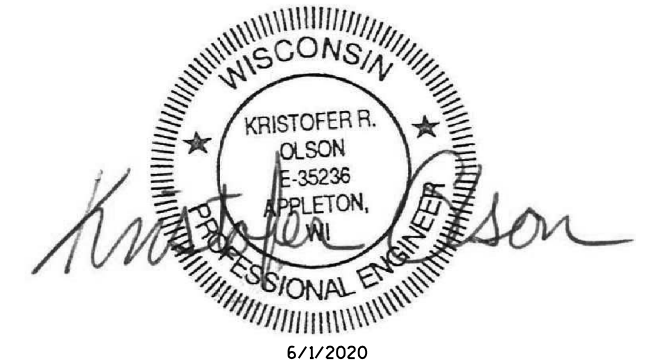
509,5100.S POLYMER OVERLAY ——— 809 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



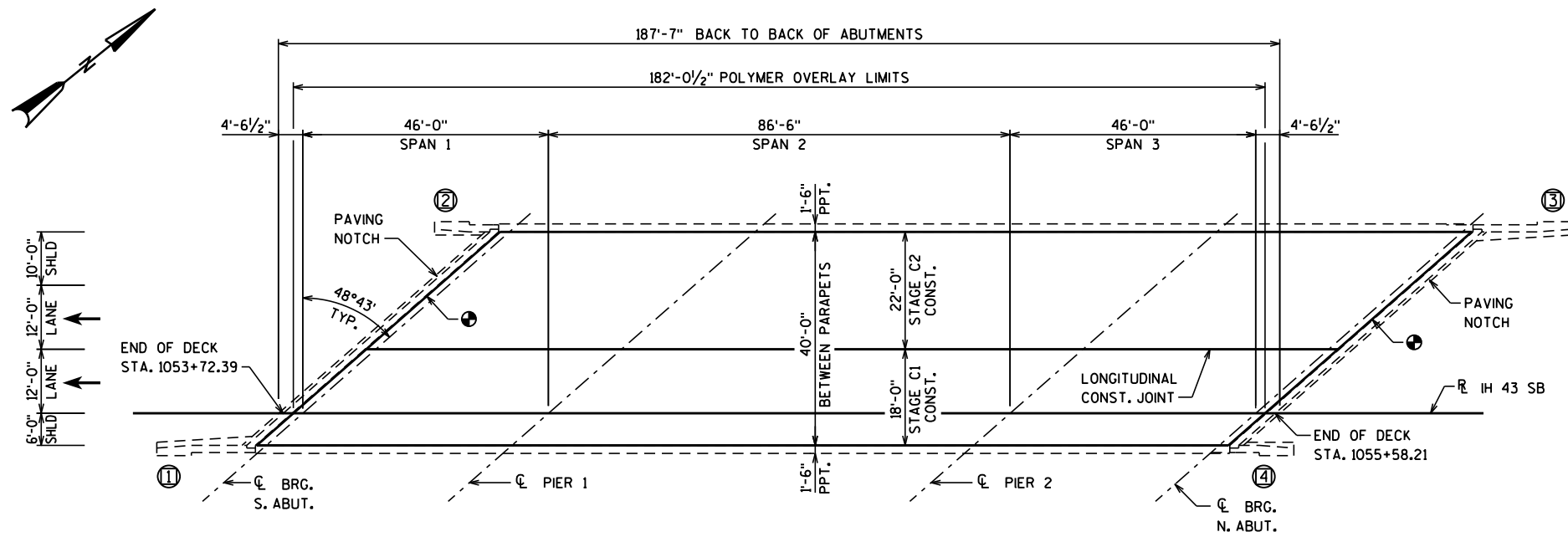
6/1/2020

BRIDGE OFFICE CONTACT

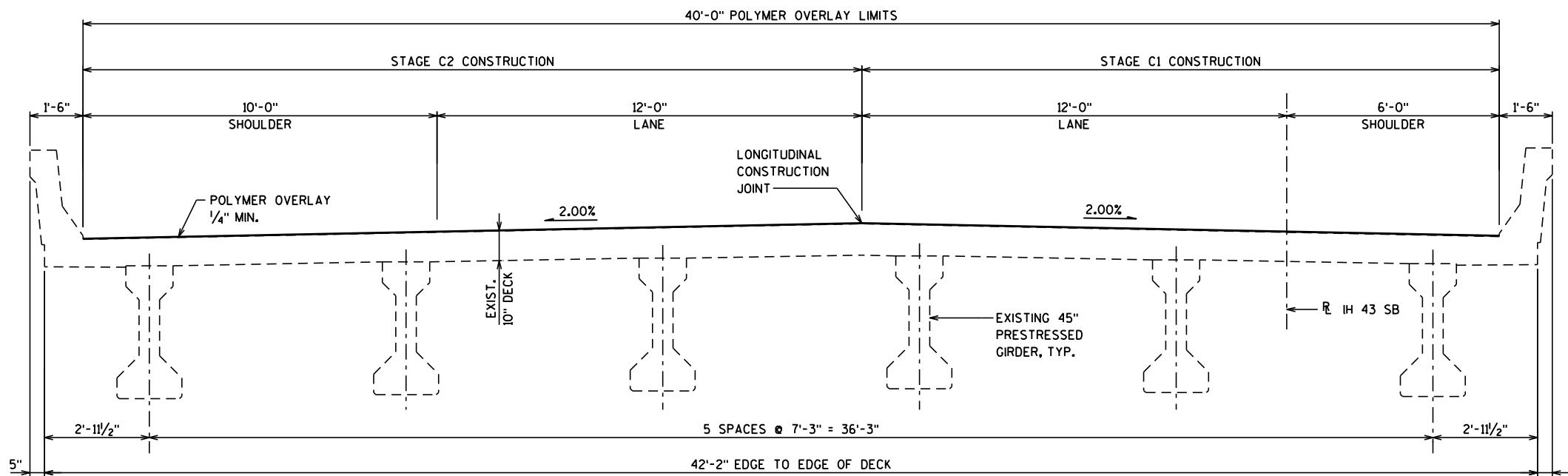
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| [Signature] | | 08/10/20 | |
| STRUCTURE B-36-42 | | | |
| IH 43 SB OVER WESTVIEW ROAD | | | |
| COUNTY | MANITOWOC | TOWN | CENTERVILLE |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

TRAFFIC DATA

ADT = 11,800 (2036)
RDS = 70 M.P.H.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-31
OPERATING RATING: HS-52
WISCONSIN STANDARD PERMIT
VEHICLE (Wis-SPV): 250 KIPS

LIST OF DRAWINGS

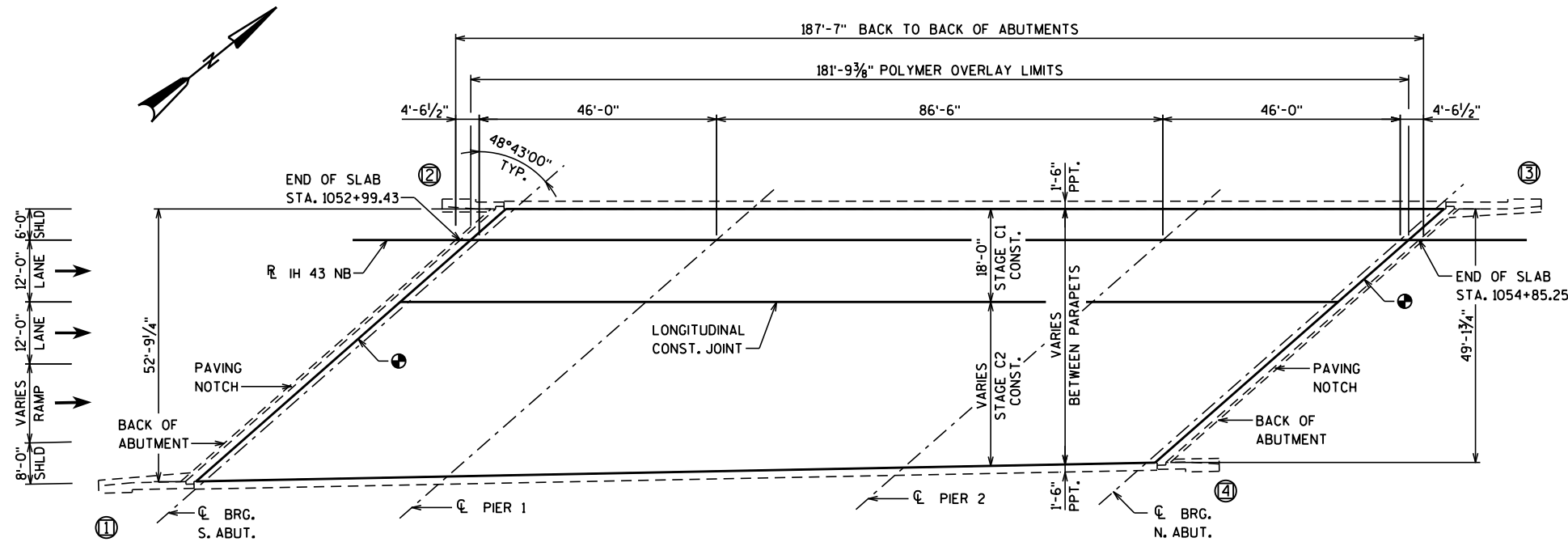
1. GENERAL PLAN

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
Ⓧ INDICATES WING NUMBER.
Ⓞ SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 1,041 SY



PLAN

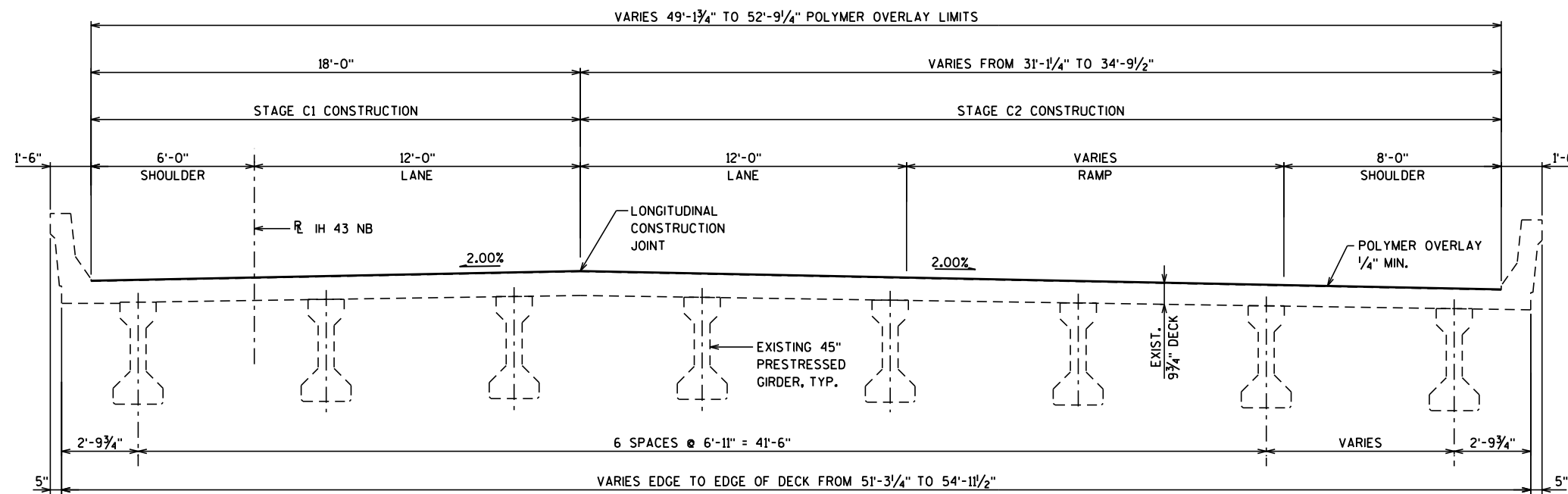


BRIDGE OFFICE CONTACT

AARON BONK
(608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
OMNI ASSOCIATES
(920) 735-6900



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 |
| CHIEF STRUCTURES DESIGN ENGINEER | | DATE | |
| STRUCTURE B-36-61 | | | |
| IH 43 NB OVER WESTVIEW ROAD | | | |
| COUNTY | MANITOWOC | TOWN | CENTERVILLE |
| DESIGN SPEC. REHABILITATION N/A | | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
 INVENTORY RATING: HS-22
 OPERATING RATING: HS-37
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 220 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- (X) INDICATES WING NUMBER.
- SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

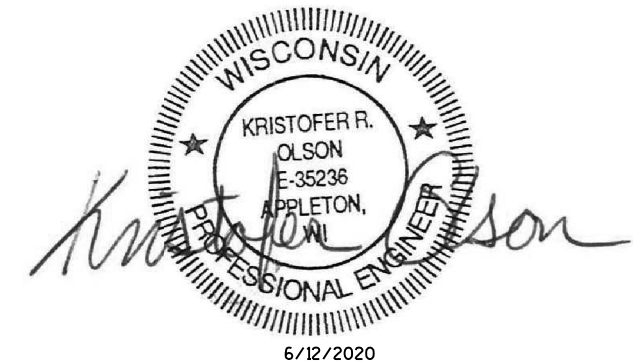
509,5100.S POLYMER OVERLAY — 973 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

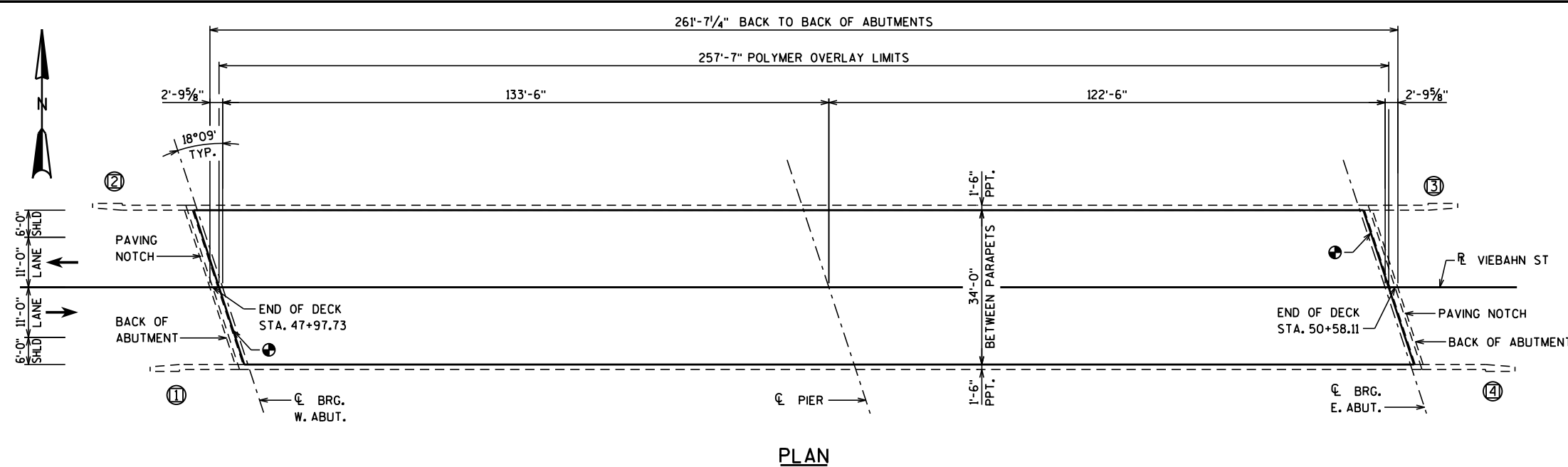


BRIDGE OFFICE CONTACT

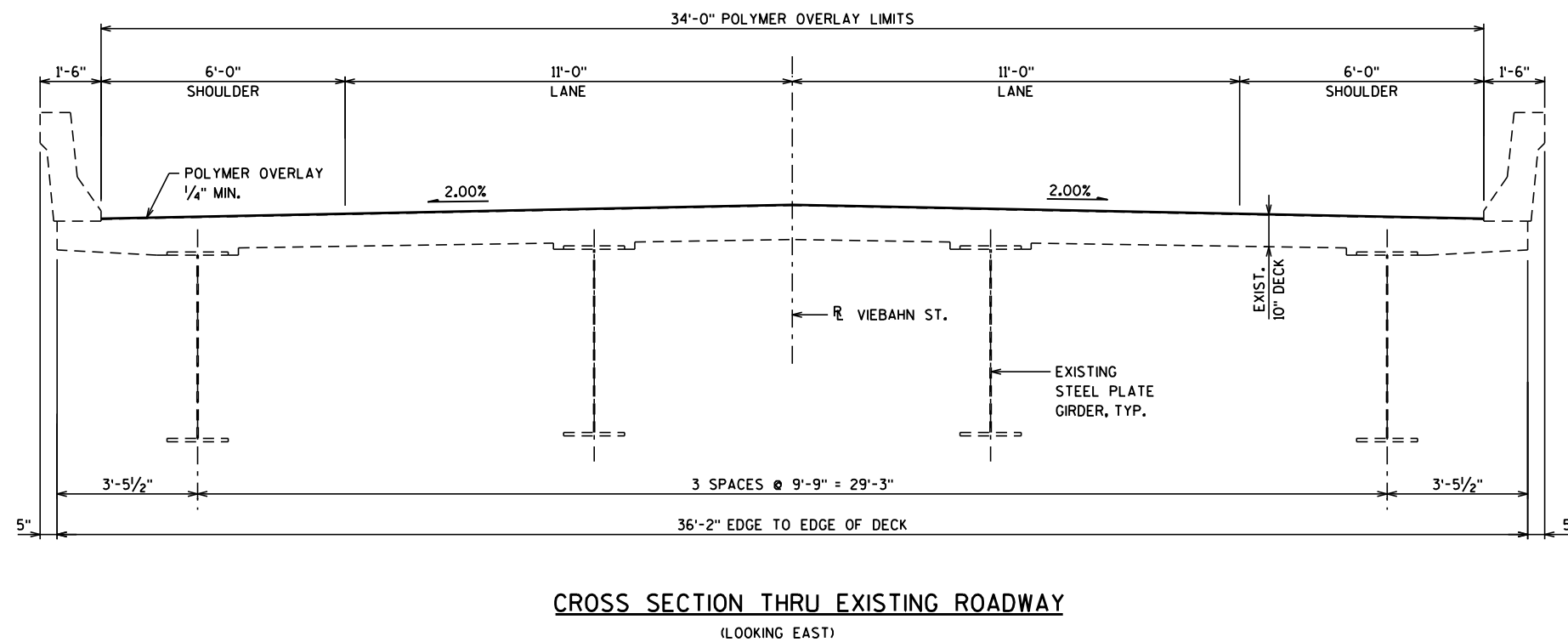
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN

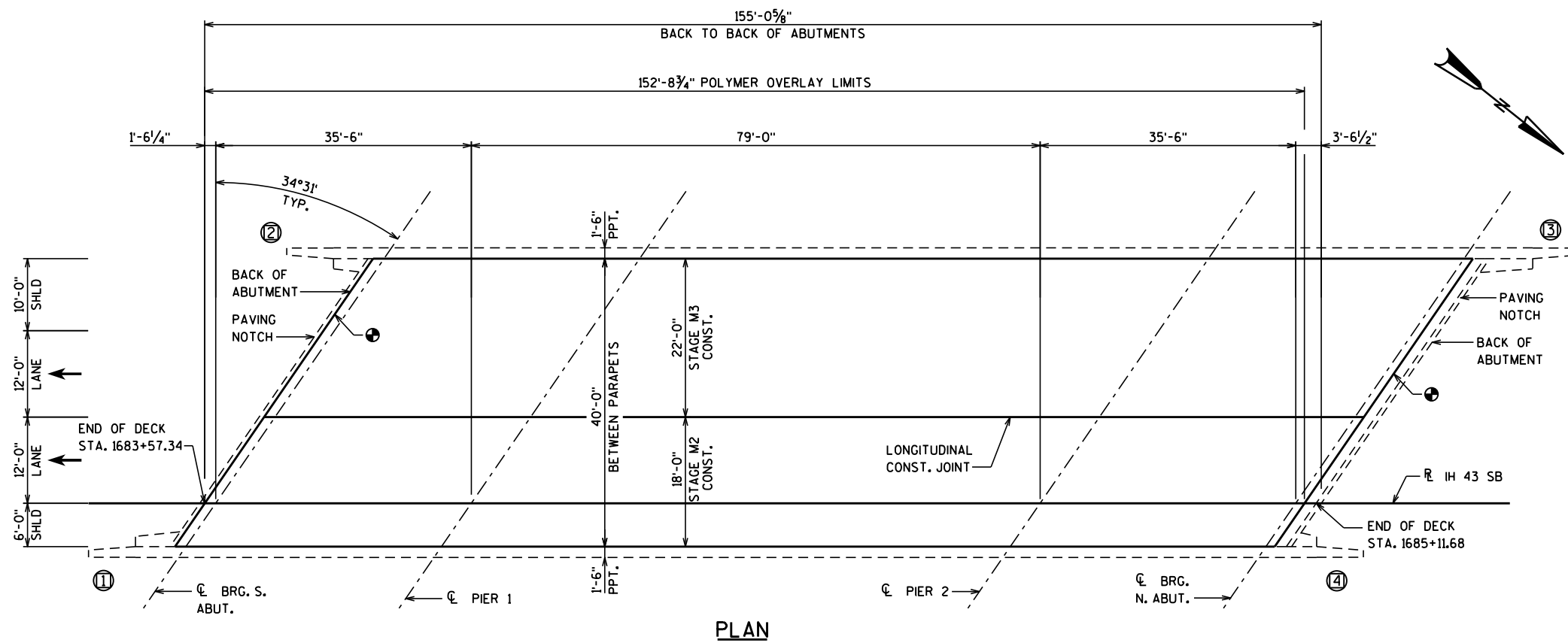


CROSS SECTION THRU EXISTING ROADWAY
 (LOOKING EAST)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| CHIEF STRUCTURES DESIGN ENGINEER | | 08/10/20 | |
| STRUCTURE B-36-62 | | | |
| VIEBAHN ST OVER IH 43 | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8



PLAN

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-21
 OPERATING RATING: HS-35
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 190 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 679 SY

LIST OF DRAWINGS

1. GENERAL PLAN

BRIDGE OFFICE CONTACT

AARON BONK
(608) 261-0261

CONSULTANT CONTACT

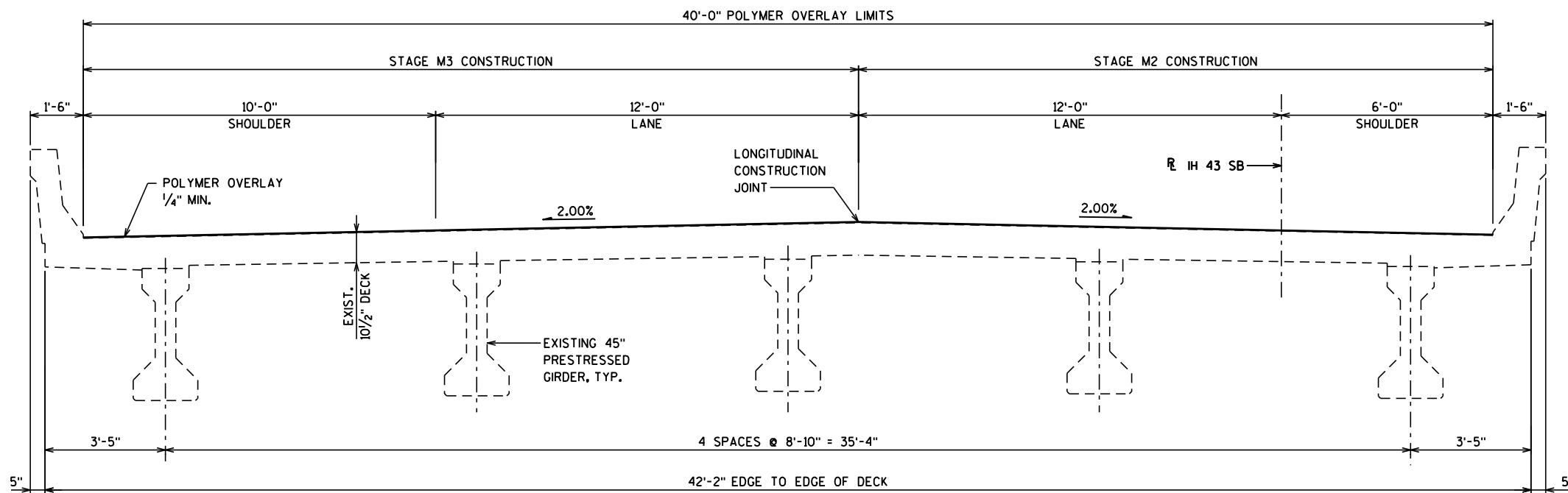
KRISTOFER OLSON
OMNI ASSOCIATES
(920) 735-6900

TRAFFIC DATA

ADT = 11,800 (2036)
RDS = 70 M.P.H.



6/1/2020



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| <i>[Signature]</i> | 08/10/20 | | |
| STRUCTURE B-36-65 | | | |
| IH 43 SB OVER WEST CUSTER ST | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
 INVENTORY RATING: HS-21
 OPERATING RATING: HS-35
 WISCONSIN STANDARD PERMIT
 VEHICLE (WIS-SPV): 190 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 679 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



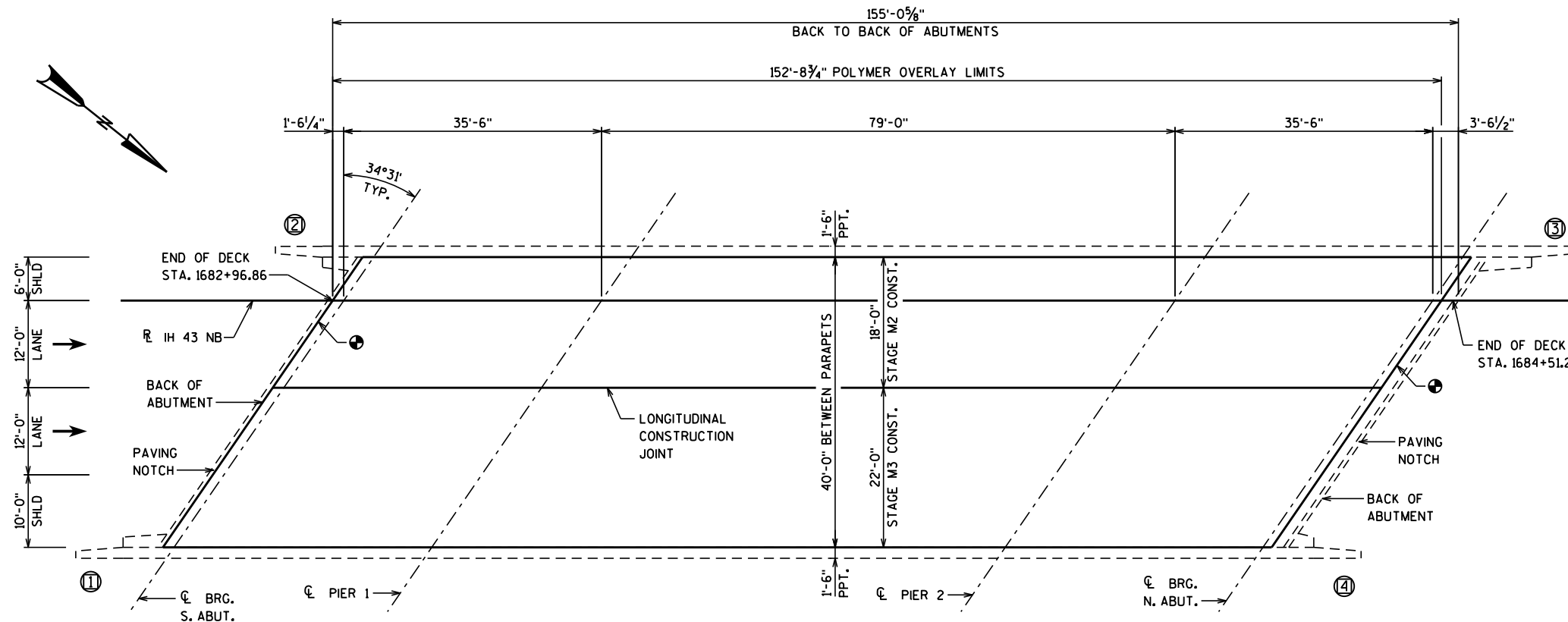
6/1/2020

BRIDGE OFFICE CONTACT

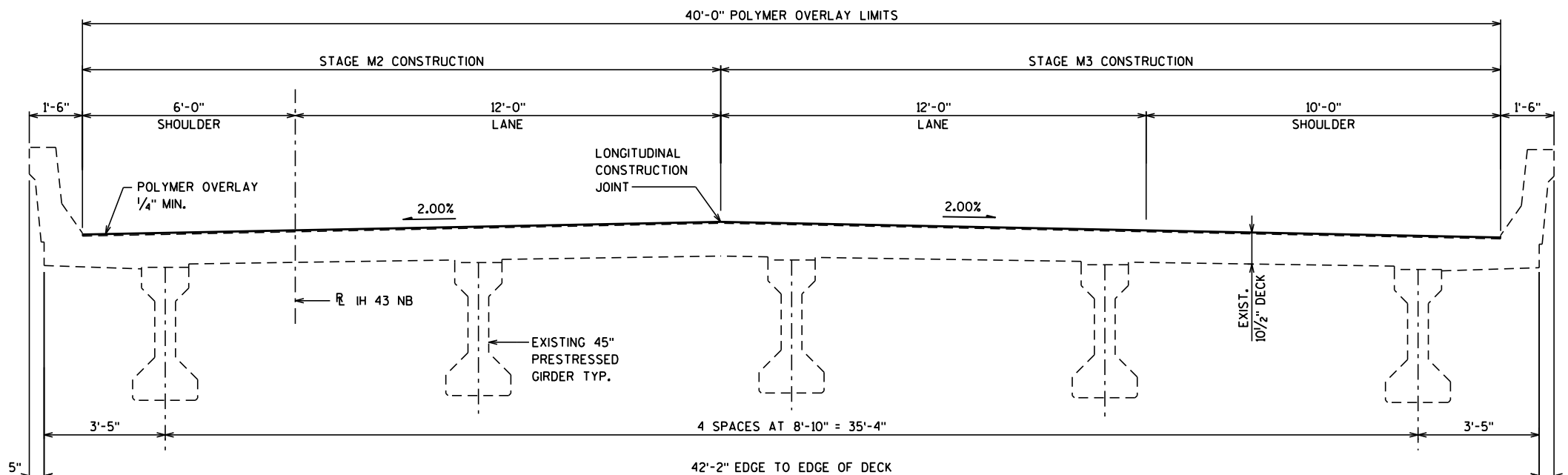
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | DATE |
| | | | 08/10/20 |
| STRUCTURE B-36-66 | | | |
| IH 43 NB OVER WEST CUSTER ST | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
 INVENTORY RATING: HS-21
 OPERATING RATING: HS-34
 WISCONSIN STANDARD PERMIT
 VEHICLE (WIS-SPV): 191 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- (X) INDICATES WING NUMBER.
- (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 692 SY



TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

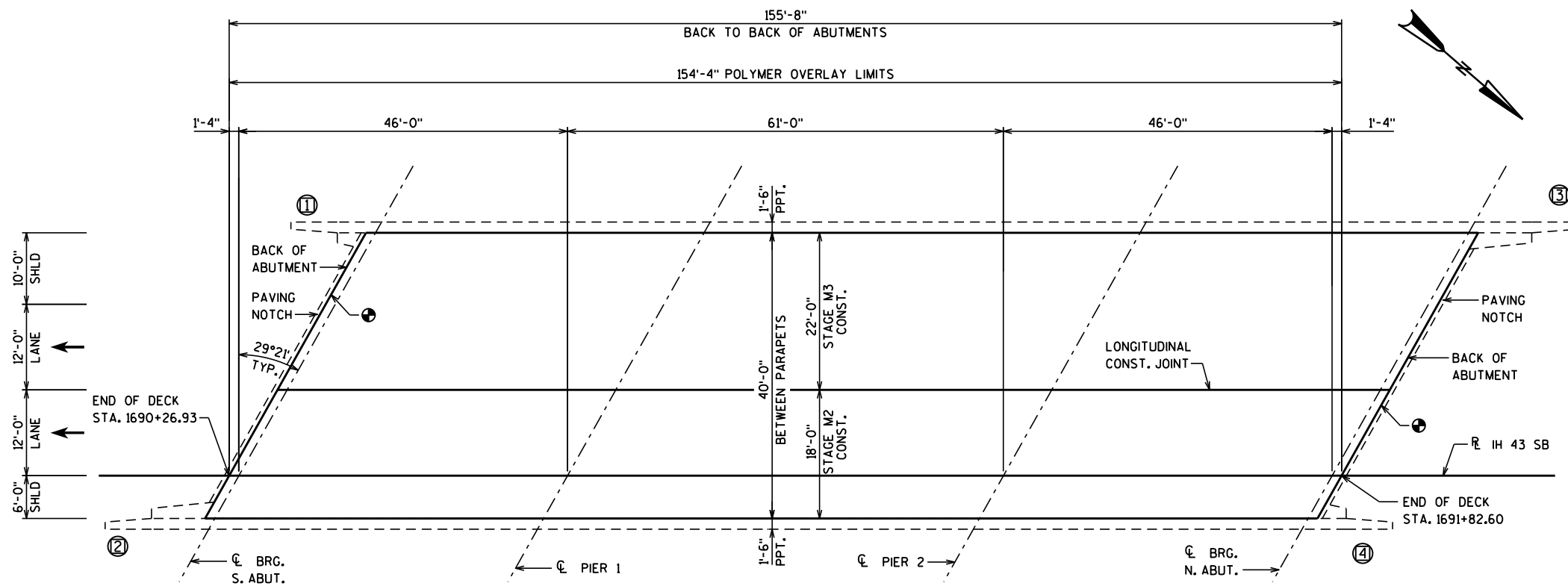
- 1. GENERAL PLAN

BRIDGE OFFICE CONTACT

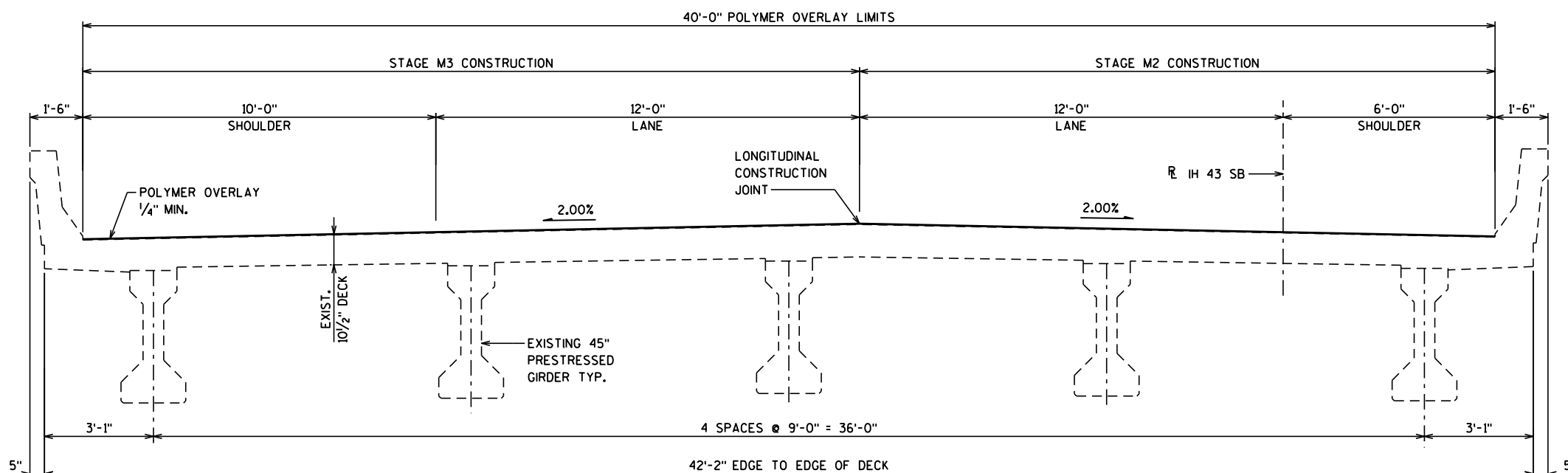
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



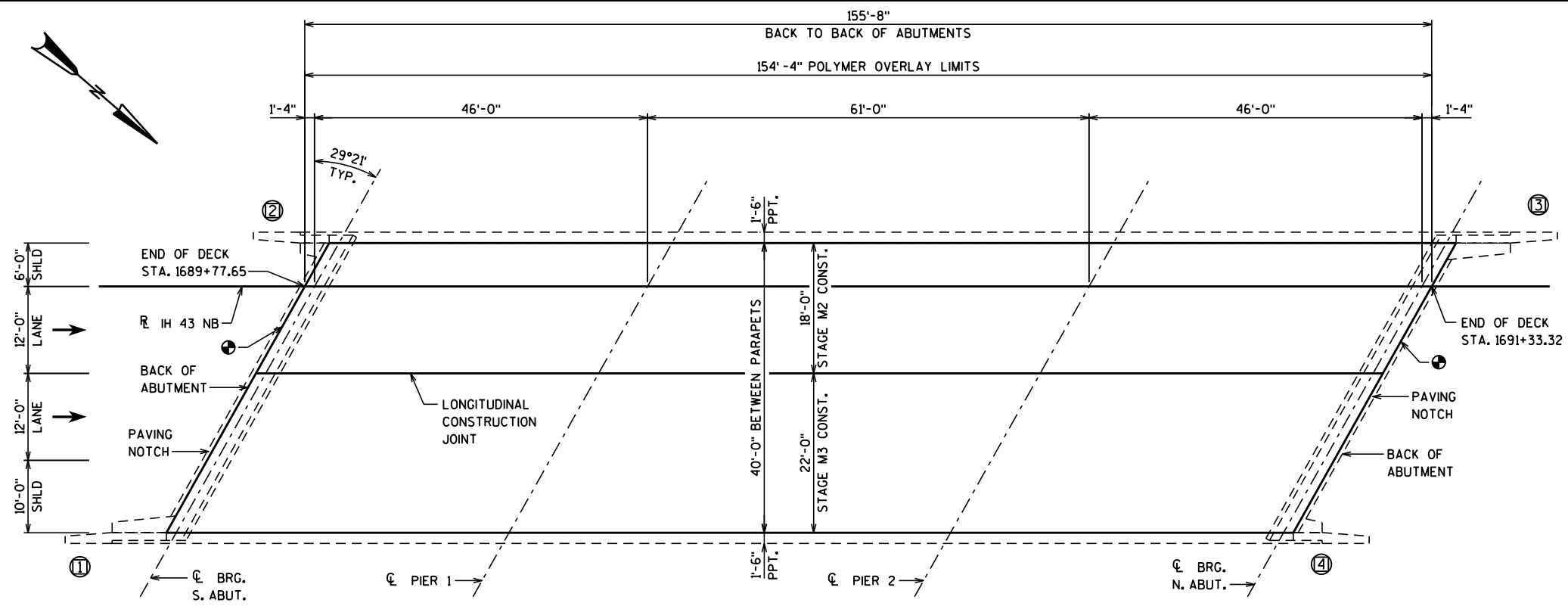
PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| [Signature] | | 08/10/20 | |
| STRUCTURE B-36-67 | | | |
| IH 43 SB OVER WCL RAILROAD | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |



PLAN

TRAFFIC DATA

ADT = 11,800 (2036)
RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

DESIGN DATA

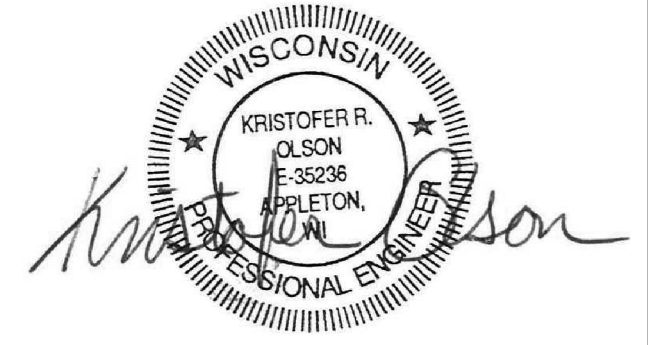
LIVE LOAD:
DESIGN LOADING: HS-20
INVENTORY RATING: HS-21
OPERATING RATING: HS-34
WISCONSIN STANDARD PERMIT
VEHICLE (Wis-SPV): 191 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
ⓧ INDICATES WING NUMBER.
⊕ SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 692 SY



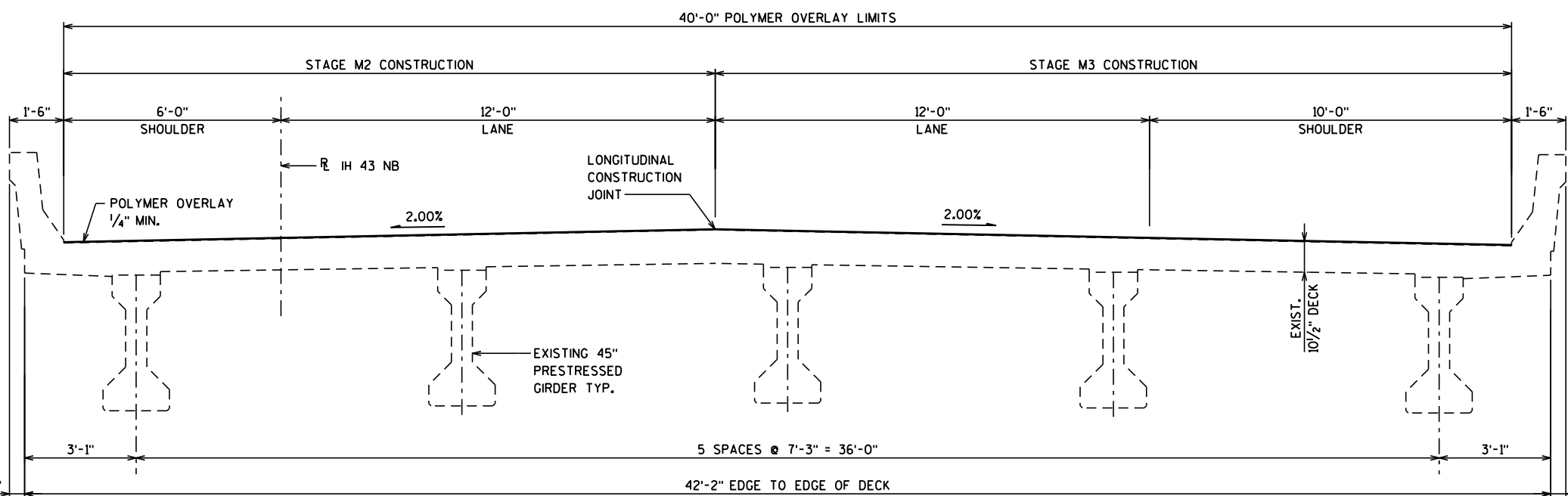
6/1/2020

BRIDGE OFFICE CONTACT

AARON BONK
(608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
OMNI ASSOCIATES
(920) 735-6900



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| <i>[Signature]</i> | 08/10/20 | | |
| STRUCTURE B-36-68 | | | |
| IH 43 NB OVER WCL RAILROAD | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
 INVENTORY RATING: HS-17
 OPERATING RATING: HS-30
 WISCONSIN STANDARD PERMIT
 VEHICLE (WIS-SPV): 194 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

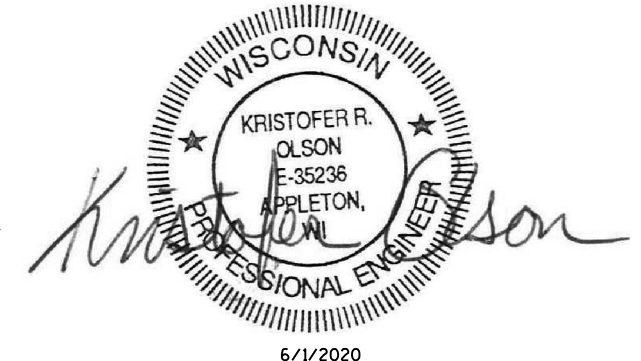
- (X) INDICATES WING NUMBER.
- SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.5 POLYMER OVERLAY — 701 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.



6/1/2020

LIST OF DRAWINGS

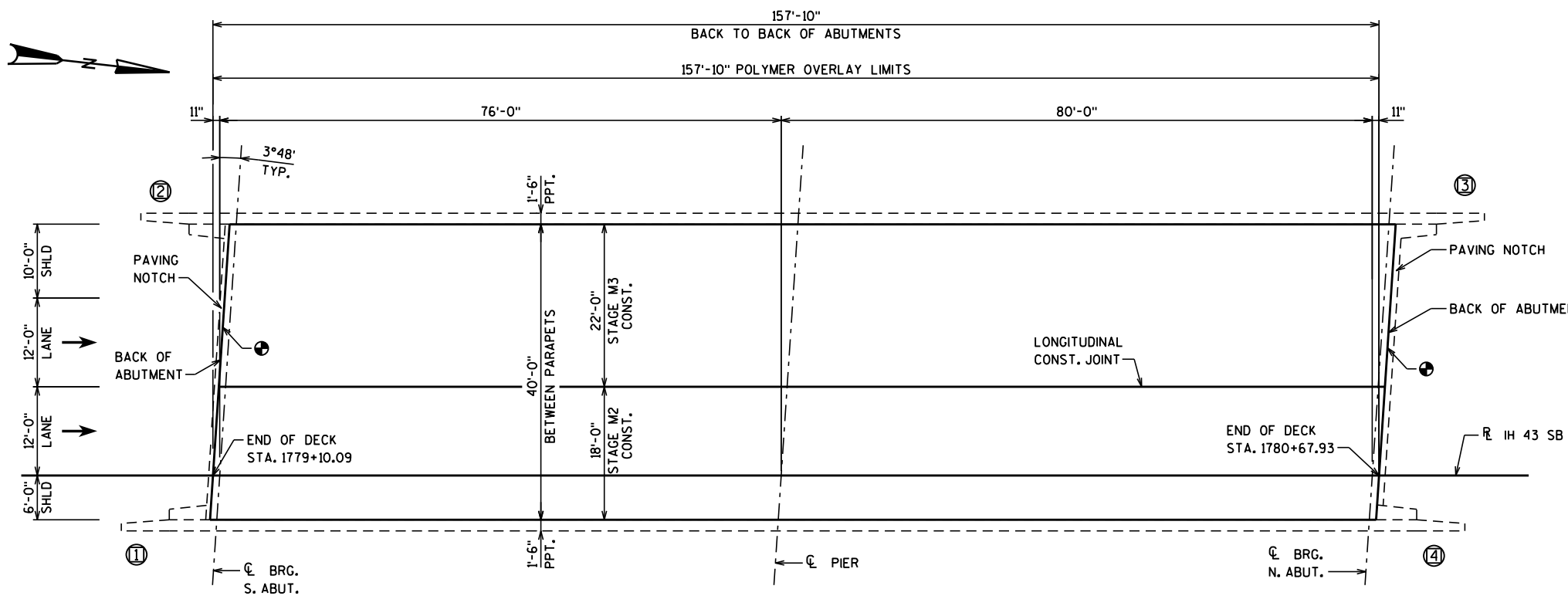
1. GENERAL PLAN

BRIDGE OFFICE CONTACT

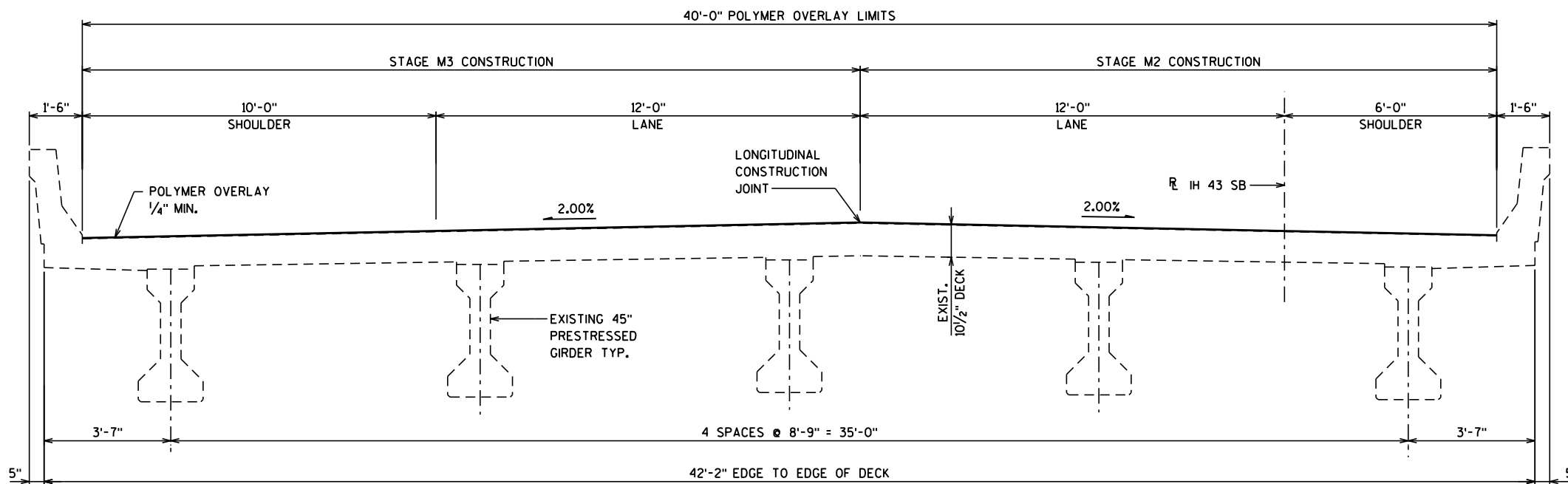
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 |
| | | | DATE |
| STRUCTURE B-36-70 | | | |
| IH 43 SB OVER USH 10/STH 42/CTH JJ | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-17
 OPERATING RATING: HS-30
 WISCONSIN STANDARD PERMIT
 VEHICLE (WIS-SPV): 194 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 701 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.



6/1/2020

LIST OF DRAWINGS

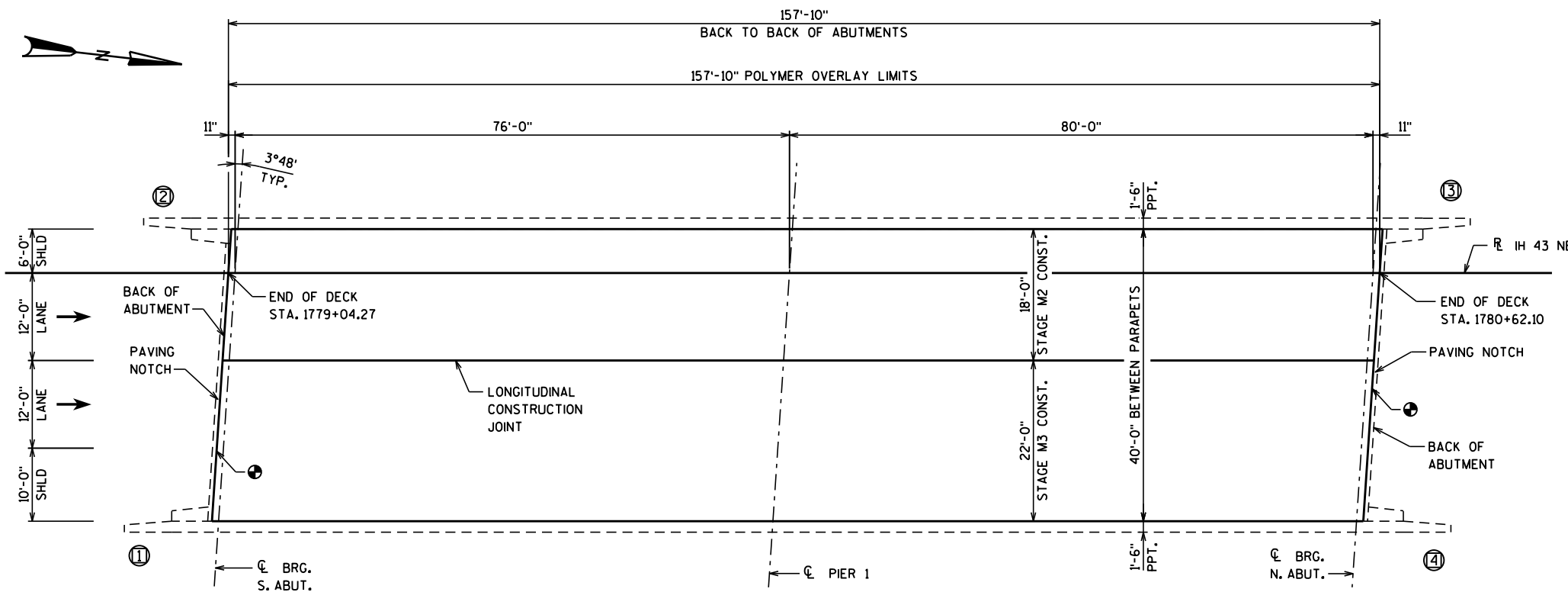
1. GENERAL PLAN

BRIDGE OFFICE CONTACT

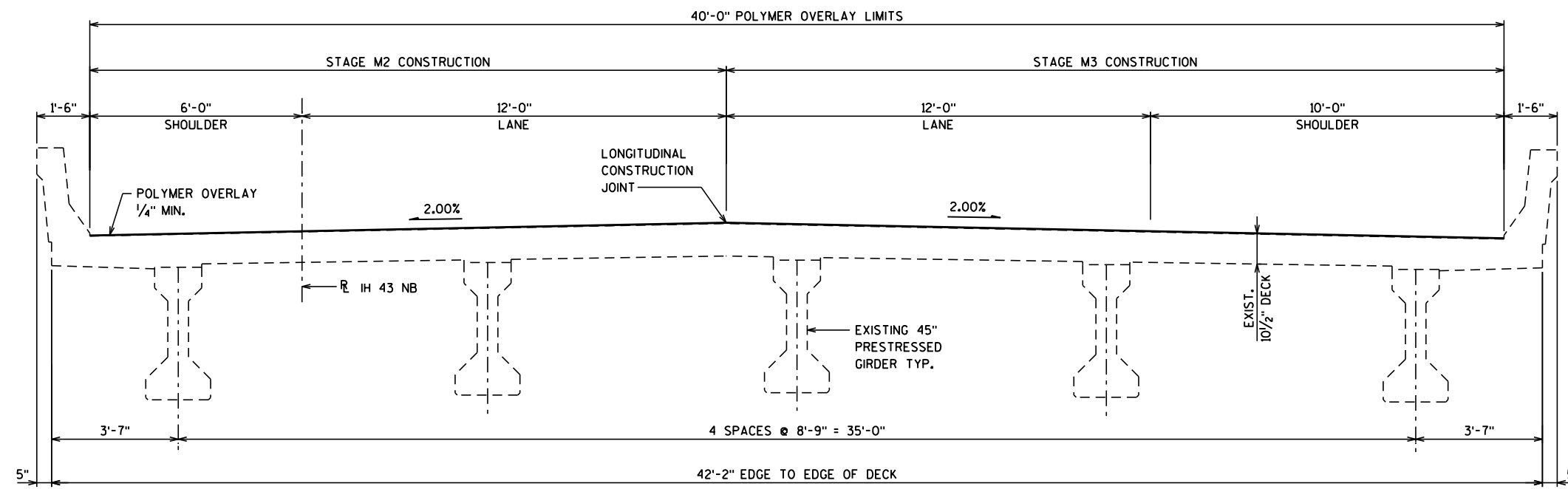
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|----------------------------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 |
| | | CHIEF STRUCTURES DESIGN ENGINEER | DATE |
| STRUCTURE B-36-71 | | | |
| IH 43 NB OVER USH 10/STH 42/CTH JJ | | | |
| COUNTY | MANITOWOC | TOWN | MANITOWOC RAPIDS |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

DESIGN DATA

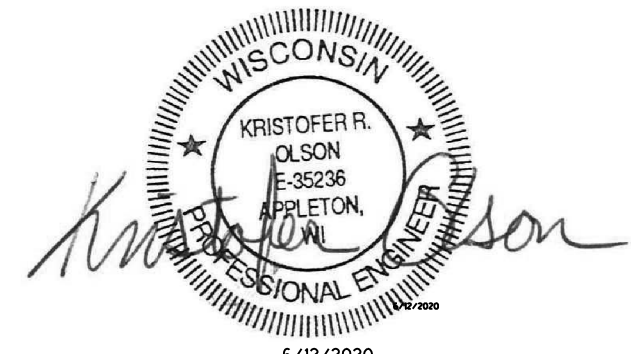
LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-23
 OPERATING RATING: HS-39
 WISCONSIN STANDARD
 PERMIT VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- ⊗ INDICATES WING NUMBER.
- ⊕ SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 1721 SY



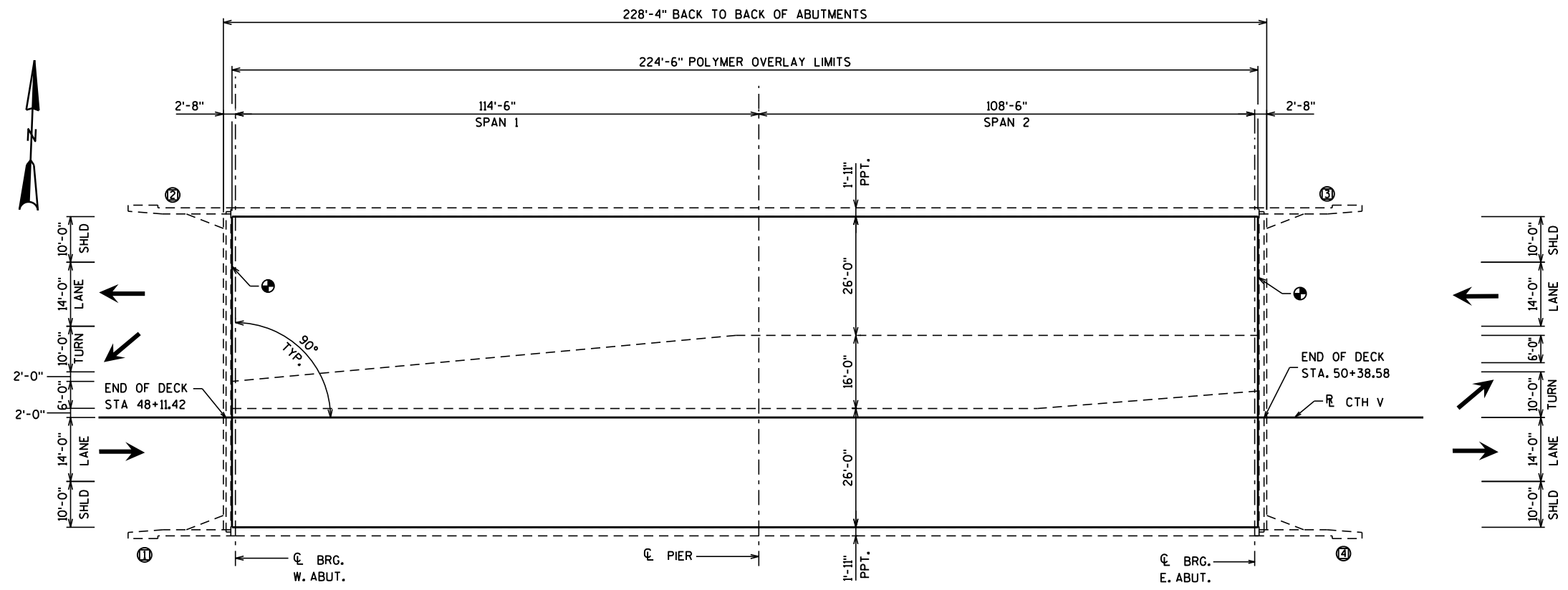
6/12/2020

BRIDGE OFFICE CONTACT

AARON BOK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



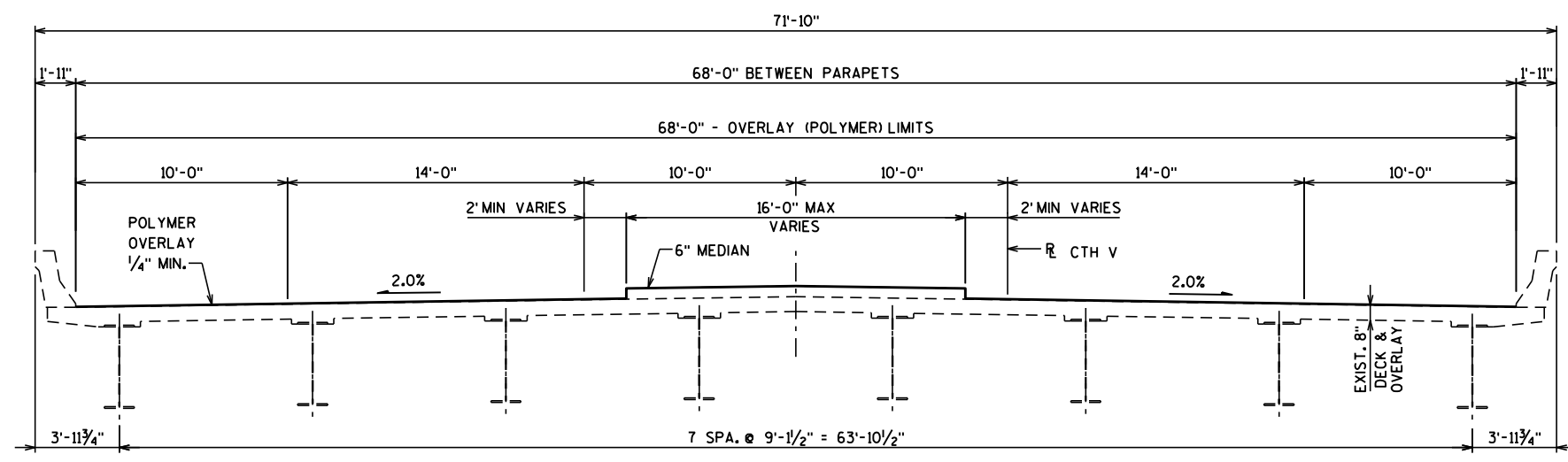
PLAN

LIST OF DRAWINGS

1. GENERAL PLAN

TRAFFIC DATA

ADT = 2,900 (2036)
 RDS = 60 M.P.H.



CROSS SECTION THRU ROADWAY LOOKING EAST

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 |
| | | | DATE |
| STRUCTURE B-36-81 | | | |
| CTH V OVER IH 43 | | | |
| COUNTY | MANITOWOC | TOWN | KOSSUTH |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-23
 OPERATING RATING: HS-39
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

- (X) INDICATES WING NUMBER.
- ⊕ SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 948 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



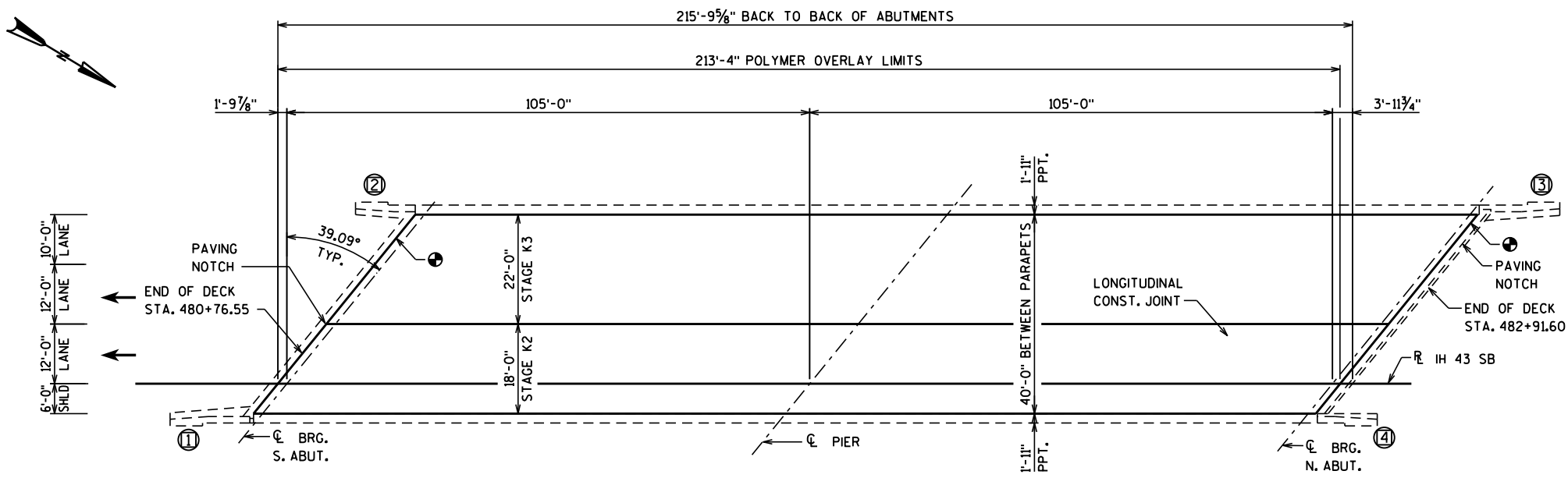
6/1/2020

BRIDGE OFFICE CONTACT

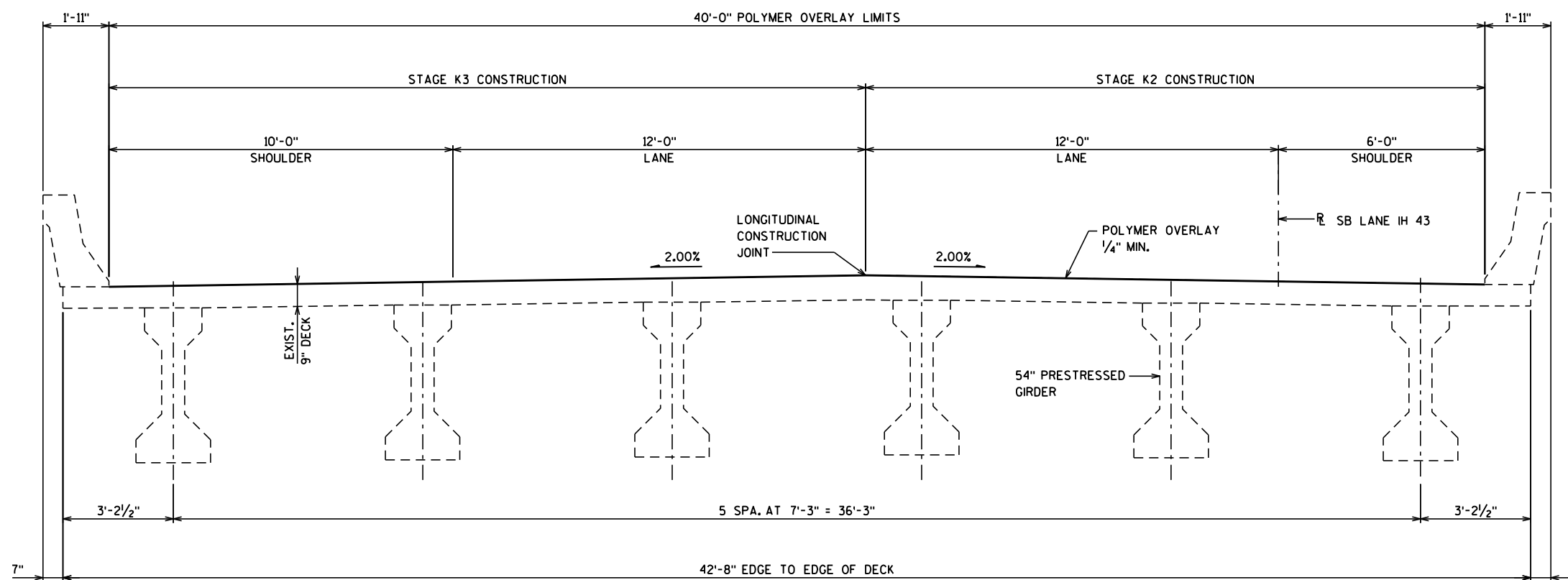
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU ROADWAY LOOKING NORTH

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 |
| | | | DATE |
| STRUCTURE B-36-86 | | | |
| IH 43 SB OVER CTH K | | | |
| COUNTY | MANITOWOC | TOWN | KOSSUTH |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-23
 OPERATING RATING: HS-39
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (+) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

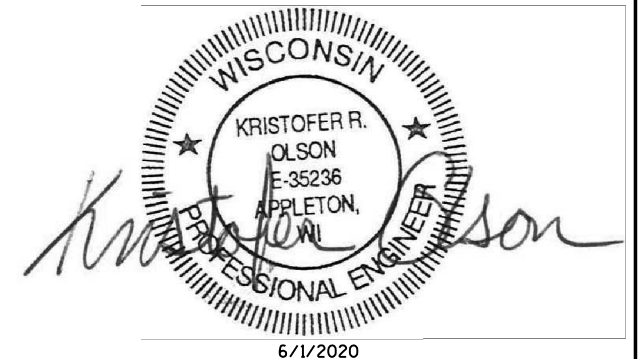
509,5100.5 POLYMER OVERLAY — 948 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



6/1/2020

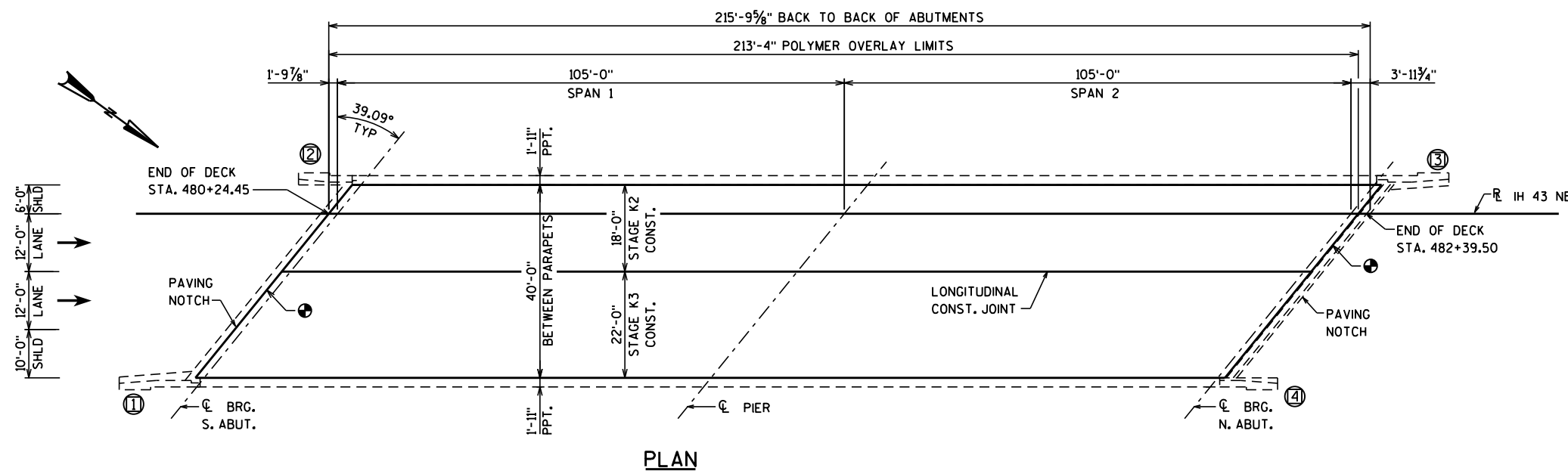
BRIDGE OFFICE CONTACT

AARON BONK
 (608) 261-0261

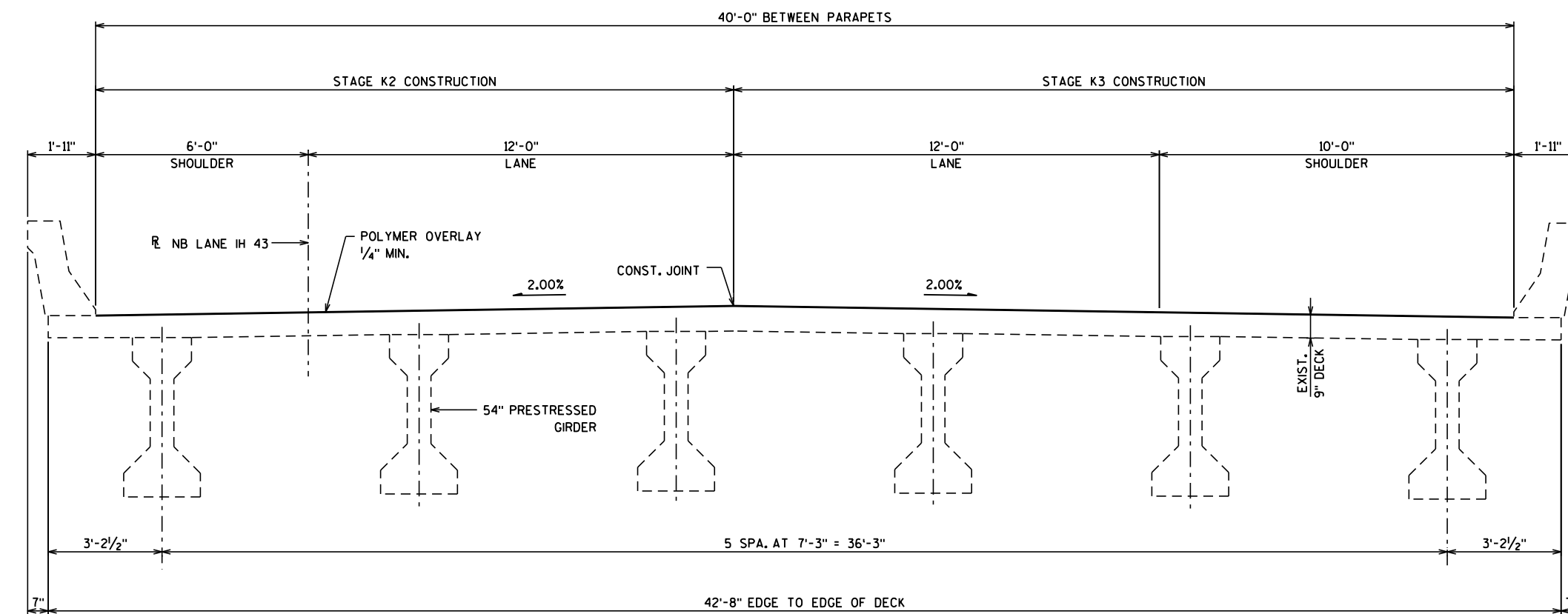
CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|------------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 DATE |
| STRUCTURE B-36-87 | | | |
| IH 43 NB OVER CTH K | | | |
| COUNTY | MANITOWOC | TOWN | KOSSUTH |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |



PLAN



CROSS SECTION THRU ROADWAY LOOKING NORTH

8

8

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-19
 OPERATING RATING: HS-31
 WISCONSIN STANDARD PERMIT
 VEHICLE (WIS-SPV): 170 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- (X) INDICATES WING NUMBER.
- SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

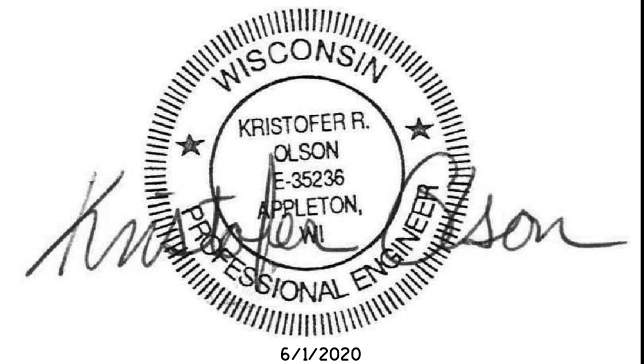
509.5100.S POLYMER OVERLAY ——— 957 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

- 1. GENERAL PLAN



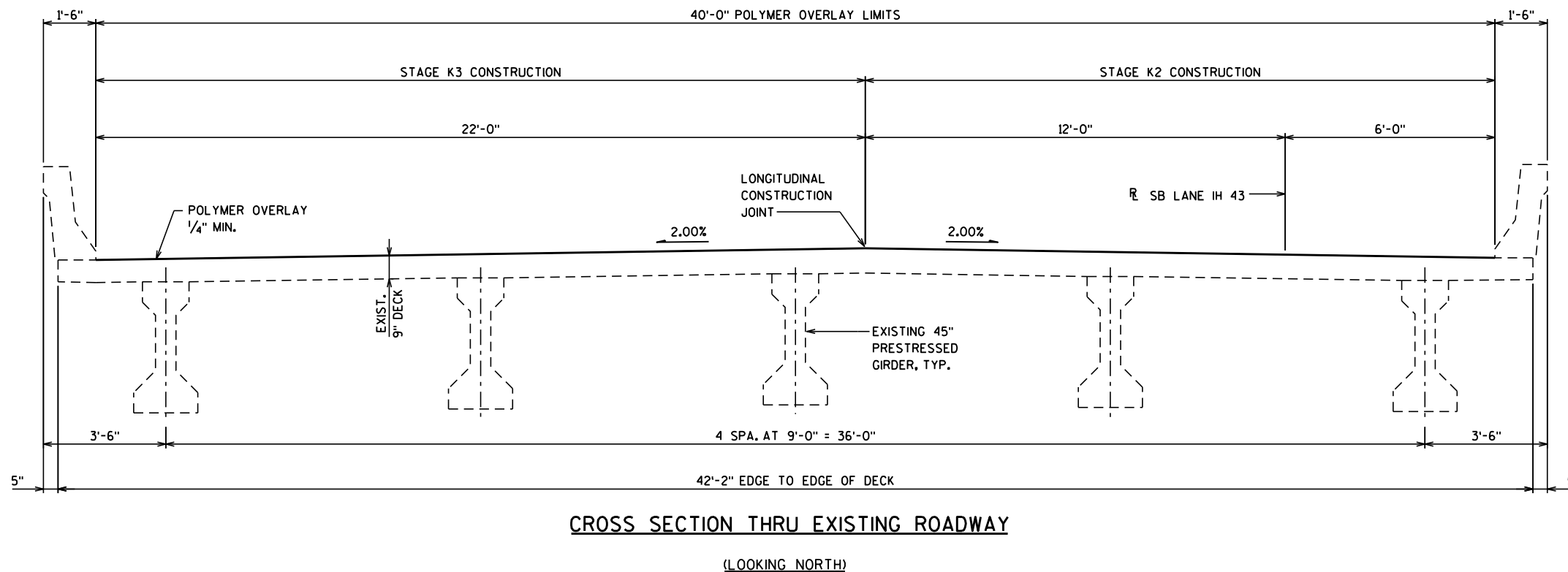
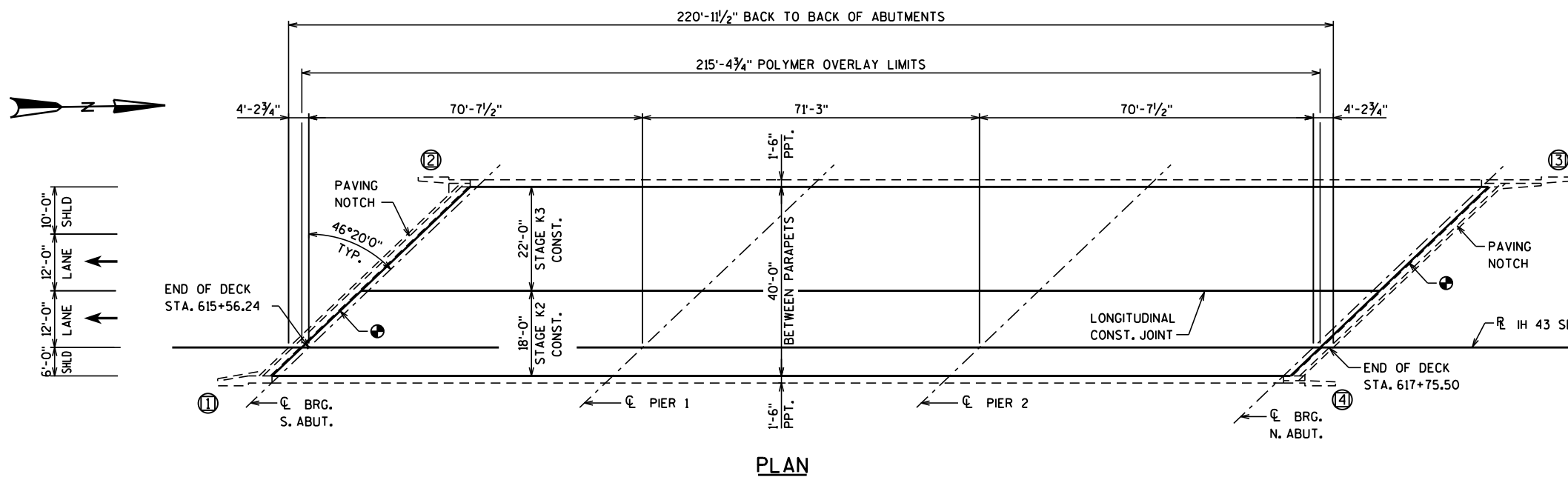
BRIDGE OFFICE CONTACT

AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | DATE | | |
| <i>[Signature]</i> | 08/10/20 | | |
| CHIEF STRUCTURES DESIGN ENGINEER | | | |
| STRUCTURE B-36-91 | | | |
| IH 43 SB OVER CNW RAILROAD | | | |
| COUNTY | MANITOWOC | TOWN | COOPERSTOWN |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |



DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-19
 OPERATING RATING: HS-31
 WISCONSIN STANDARD
 PERMIT VEHICLE (Wis-SPV): 170 KIPS

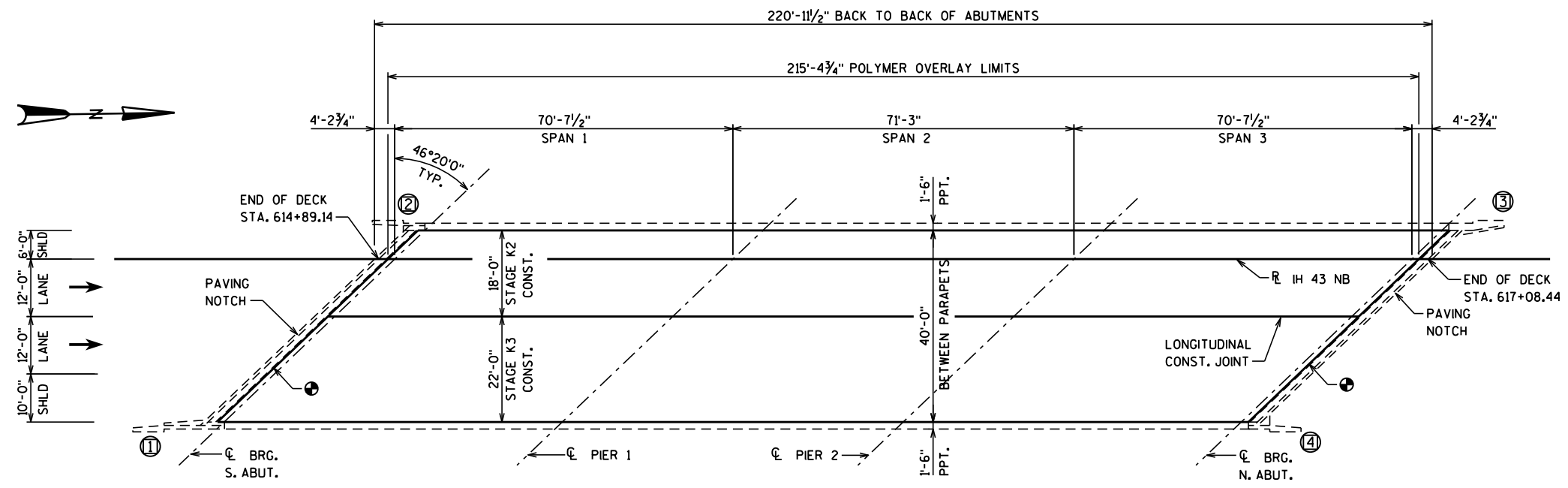
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

- (X) INDICATES WING NUMBER.
- SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509,5100.S POLYMER OVERLAY ——— 957 SY



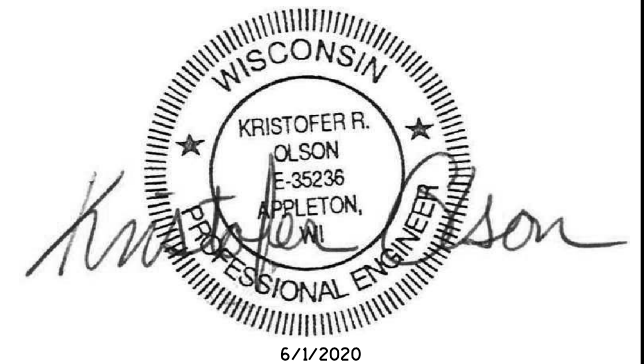
PLAN

TRAFFIC DATA

ADT = XXX (2036)
 RDS = 60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

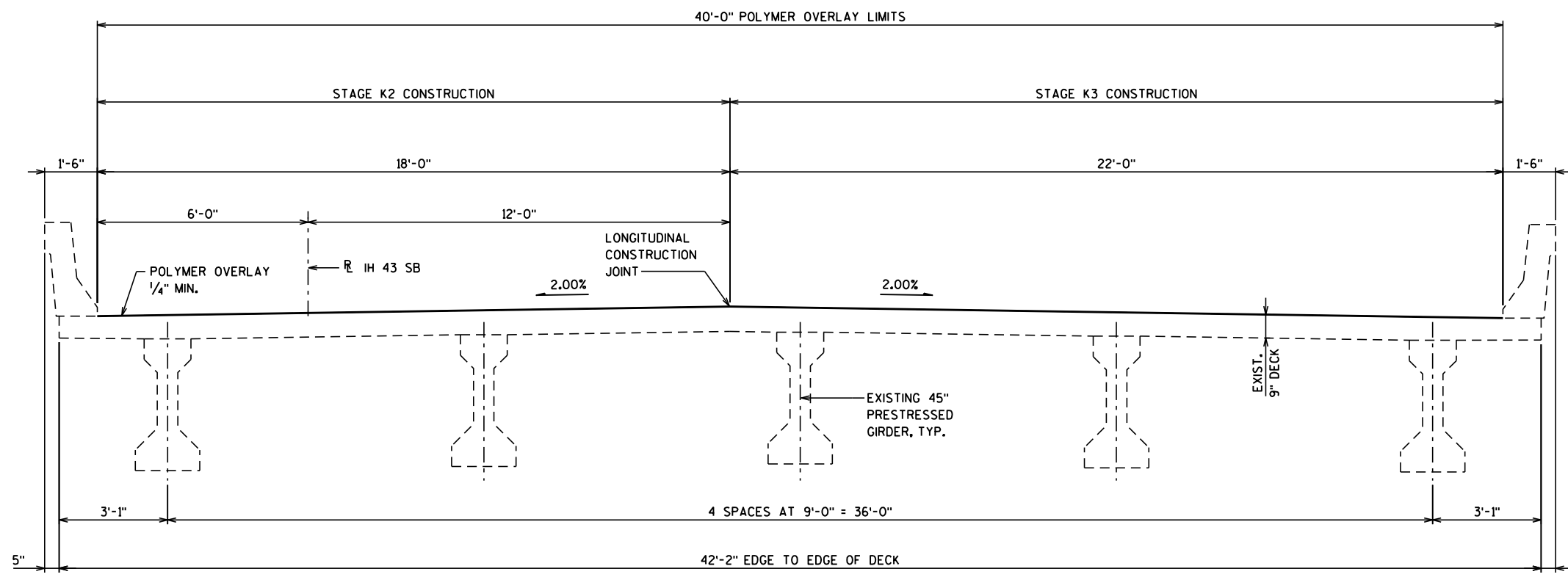


BRIDGE OFFICE CONTACT

AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|----------------------------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/10/20 |
| | | CHIEF STRUCTURES DESIGN ENGINEER | DATE |
| STRUCTURE B-36-92 | | | |
| IH 43 NB OVER CNW RAILROAD | | | |
| COUNTY | MANITOWOC | TOWN | COOPERSTOWN |
| DESIGN SPEC. REHABILITATION N/A | | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
 INVENTORY RATING: HS-26
 OPERATING RATING: HS-54
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- (X) INDICATES WING NUMBER.
- SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509,5100.S POLYMER OVERLAY ——— 516 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN

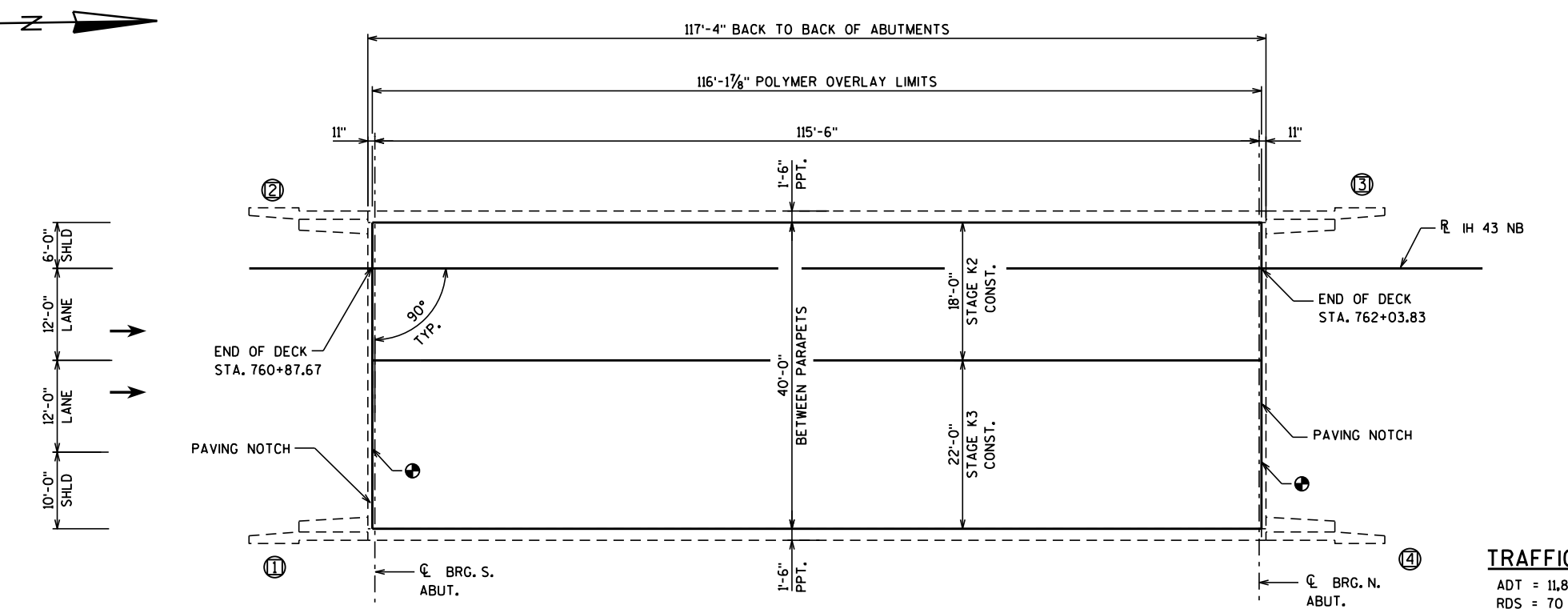
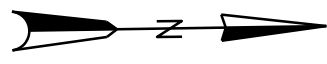


BRIDGE OFFICE CONTACT

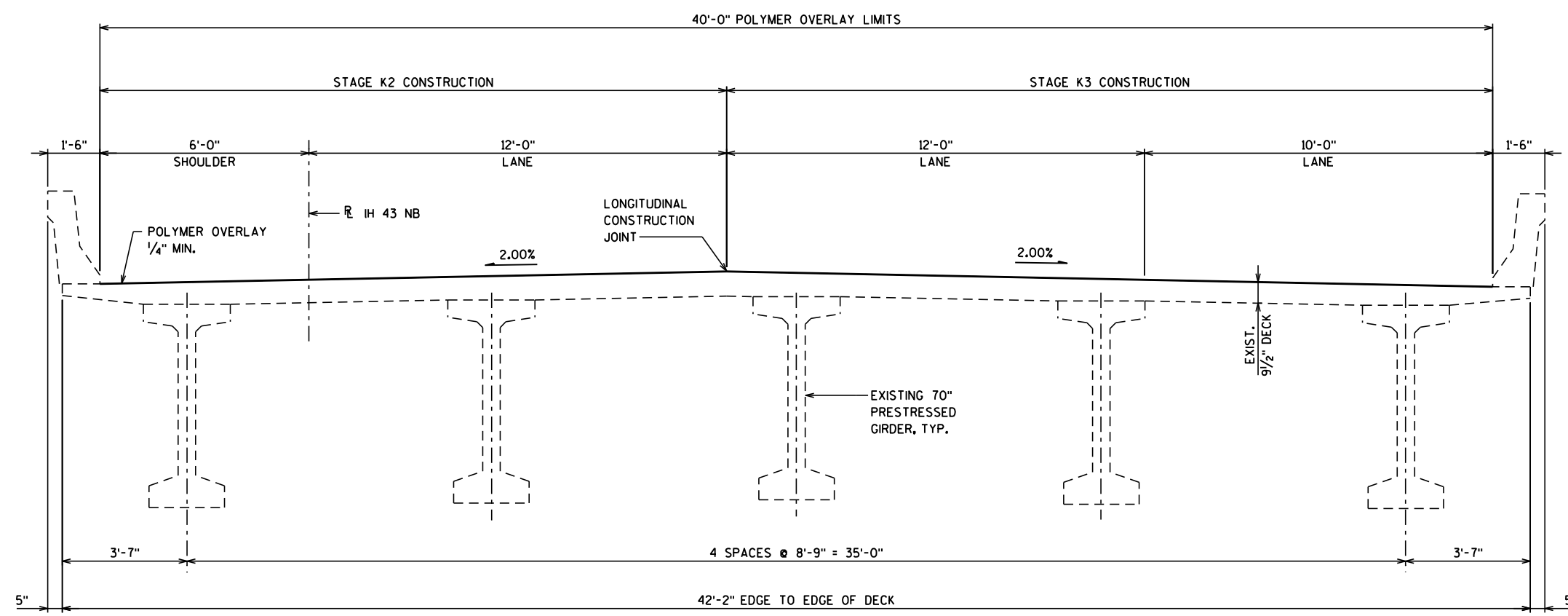
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| | | | 08/10/20 |
| STRUCTURE B-36-98 | | | |
| IH 43 NB OVER DEVILS RIVER | | | |
| COUNTY | MANITOWOC | TOWN | COOPERSTOWN |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

CURVE DATA

I-43 SB LANE
 P.I. = STA 1133+72.95
 Δ = 31°20'47"
 D = 1°00'00"
 T = 1607.62'
 L = 3134.64'
 R = 5729.58'
 S.E. = 0.038%
 R.O. = 200'

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HS-20
 INVENTORY RATING: HS-19
 OPERATING RATING: HS-33
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- (X) INDICATES WING NUMBER.
- SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 565 SY



TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

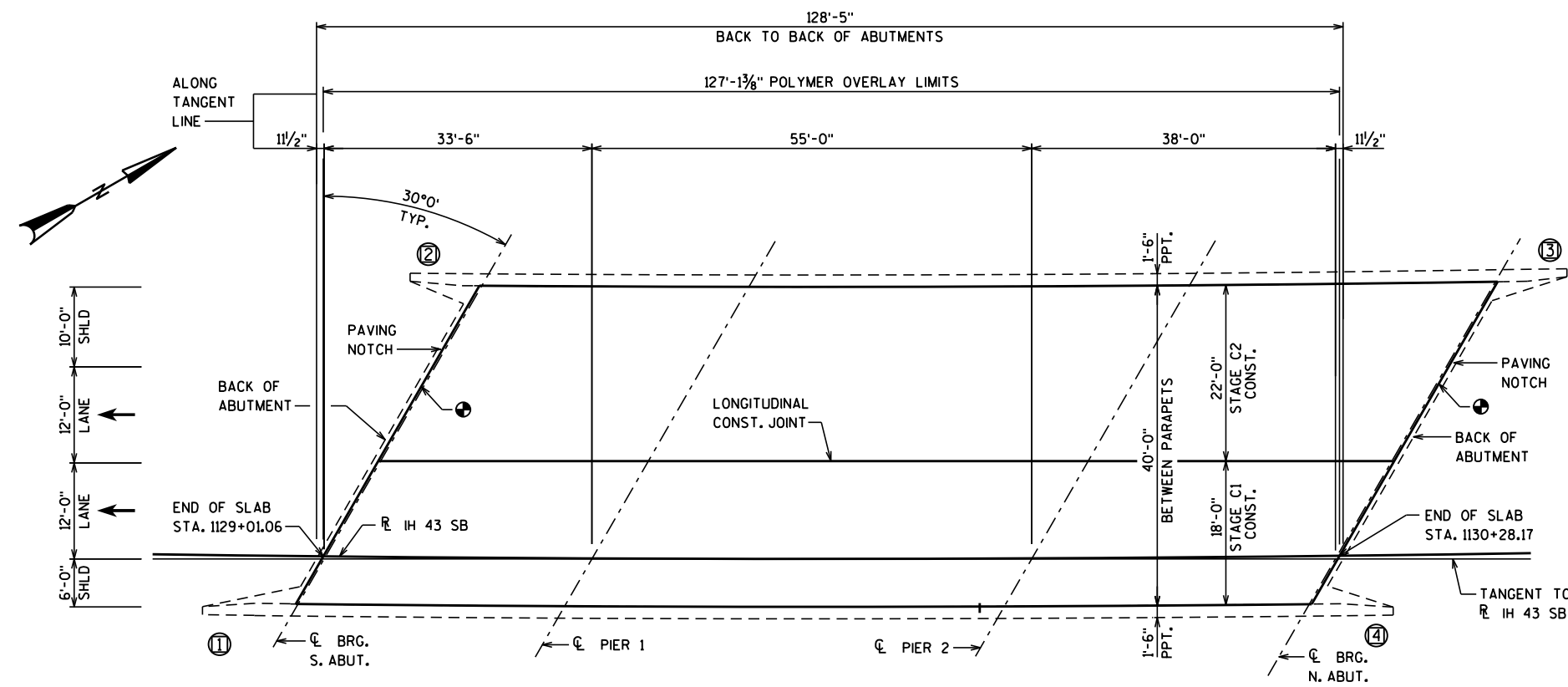
1. GENERAL PLAN

BRIDGE OFFICE CONTACT

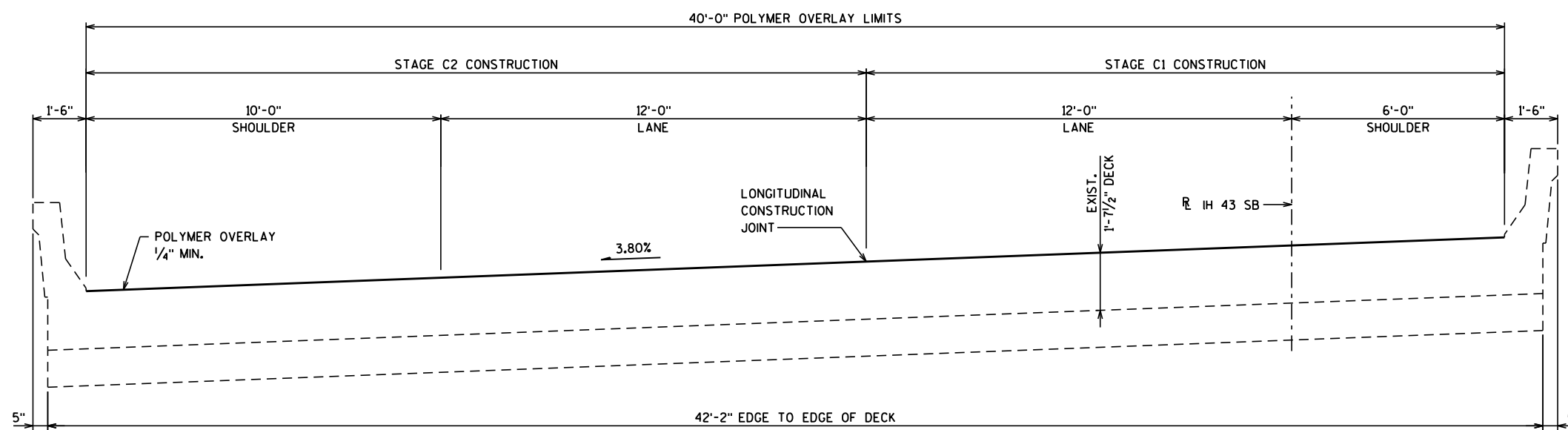
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

NOTE: ALL WIDTH DIMENSIONS ON CROSS SECTION ARE RADIAL TO THE CURVE.

| NO. | DATE | REVISION | BY |
|--|--------------------|----------------------------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/11/20 |
| | | CHIEF STRUCTURES DESIGN ENGINEER | DATE |
| STRUCTURE B-36-110 | | | |
| IH 43 SB OVER CEDAR VIEW ROAD | | | |
| COUNTY | MANITOWOC | TOWN | CENTERVILLE |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
 INVENTORY RATING: HS-25
 OPERATING RATING: HS-49
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 230 KIPS

GENERAL NOTES

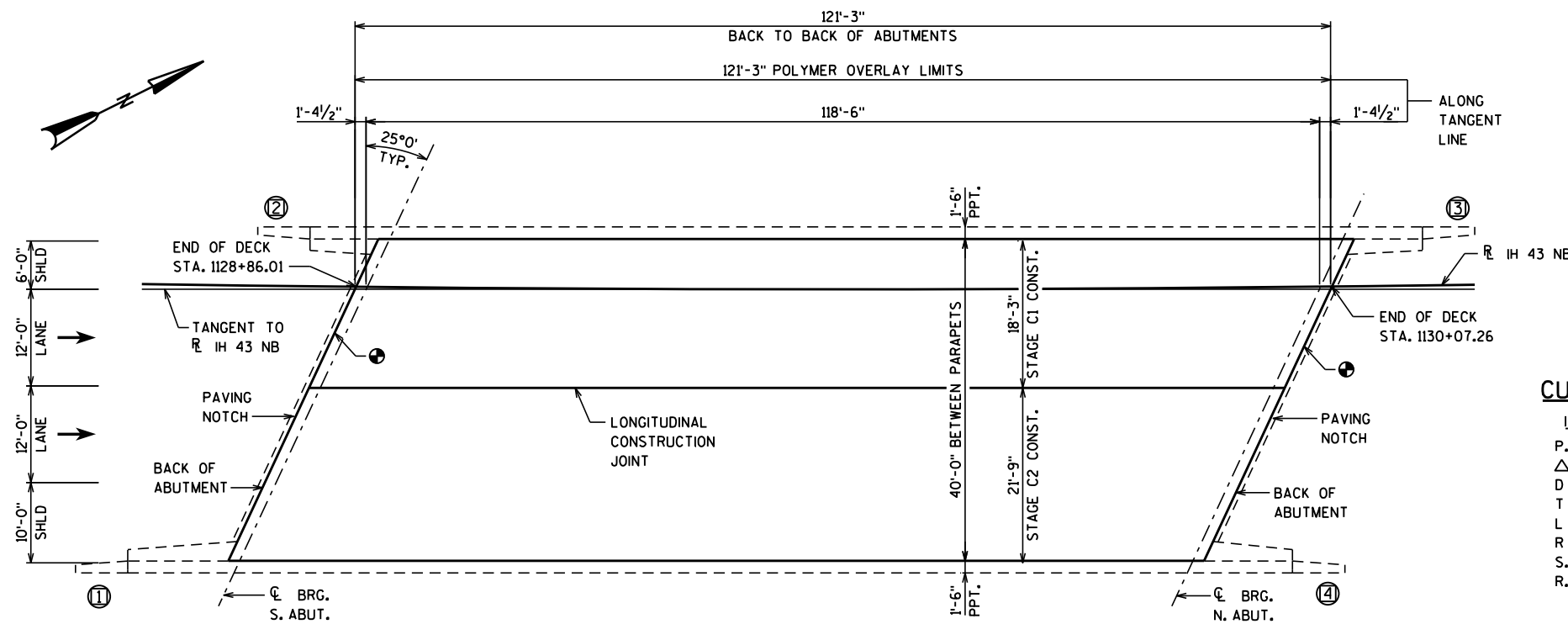
DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (+) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509,5100.S POLYMER OVERLAY — 539 SY

CURVE DATA

I-43 NB LANE
 P.I. = STA 1133+72.95
 Δ = 31°20'47"
 D = 1°00'00"
 T = 1607.62'
 L = 3134.64'
 R = 5729.58'
 S.E. = 0.038%
 R.O. = 200'



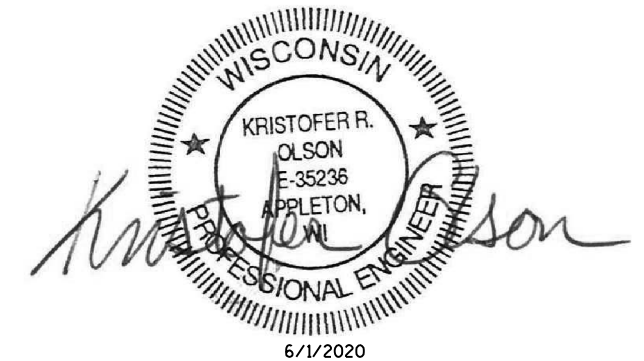
PLAN

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



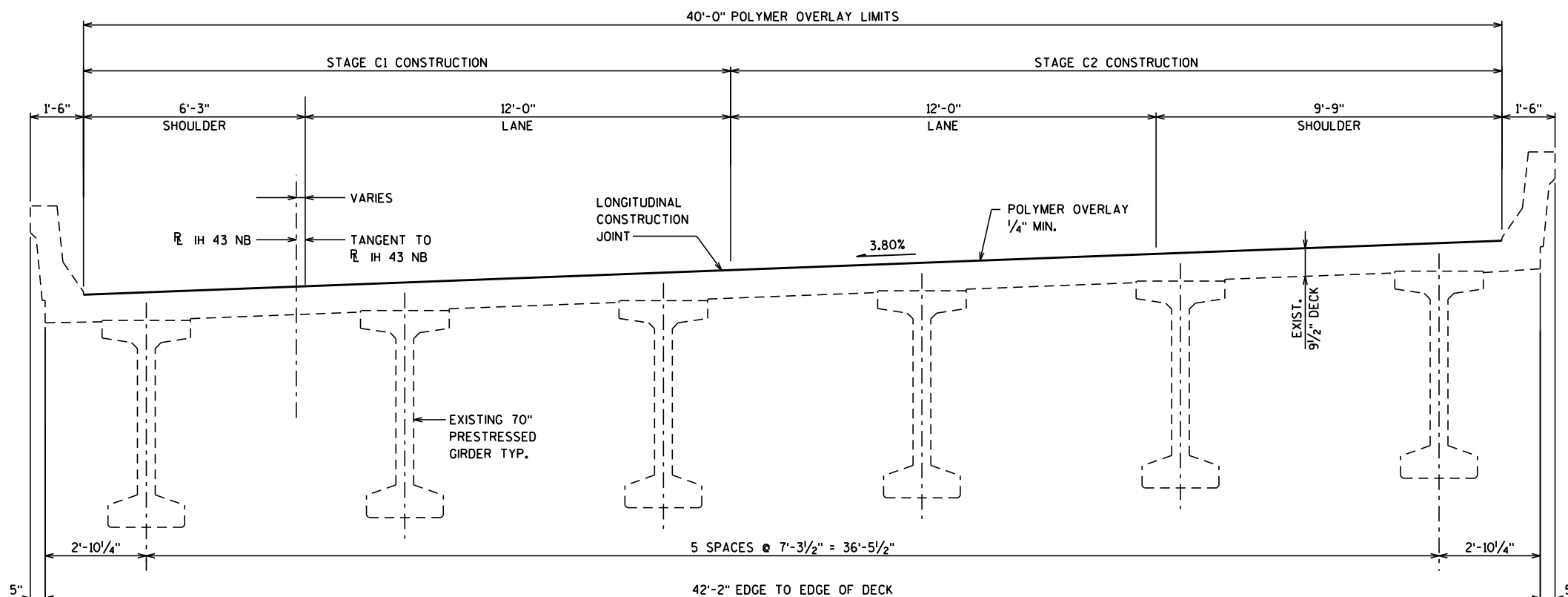
6/1/2020

BRIDGE OFFICE CONTACT

AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



CROSS SECTION THRU EXISTING ROADWAY
 (LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|----------------------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | [Signature] | | DATE |
| | CHIEF STRUCTURES DESIGN ENGINEER | | 08/11/20 |
| STRUCTURE B-36-111 | | | |
| IH 43 NB OVER CEDAR VIEW ROAD | | | |
| COUNTY | MANITOWOC | TOWN | CENTERVILLE |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | BRE | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

8

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
 INVENTORY RATING: 1.17
 OPERATING RATING: 1.74
 WISCONSIN STANDARD PERMIT
 VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- (X) INDICATES WING NUMBER.
- (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY ——— 343 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



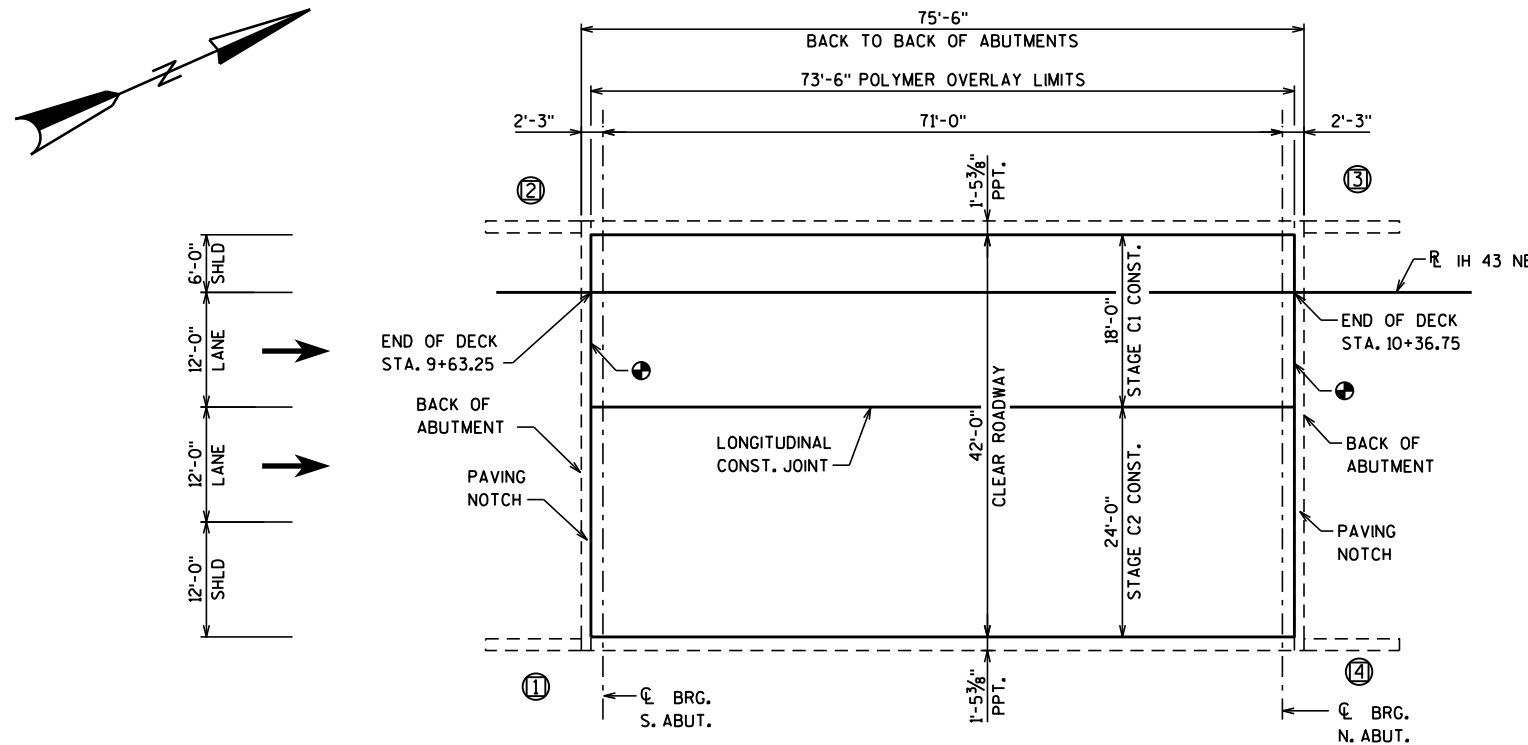
6/12/2020

BRIDGE OFFICE CONTACT

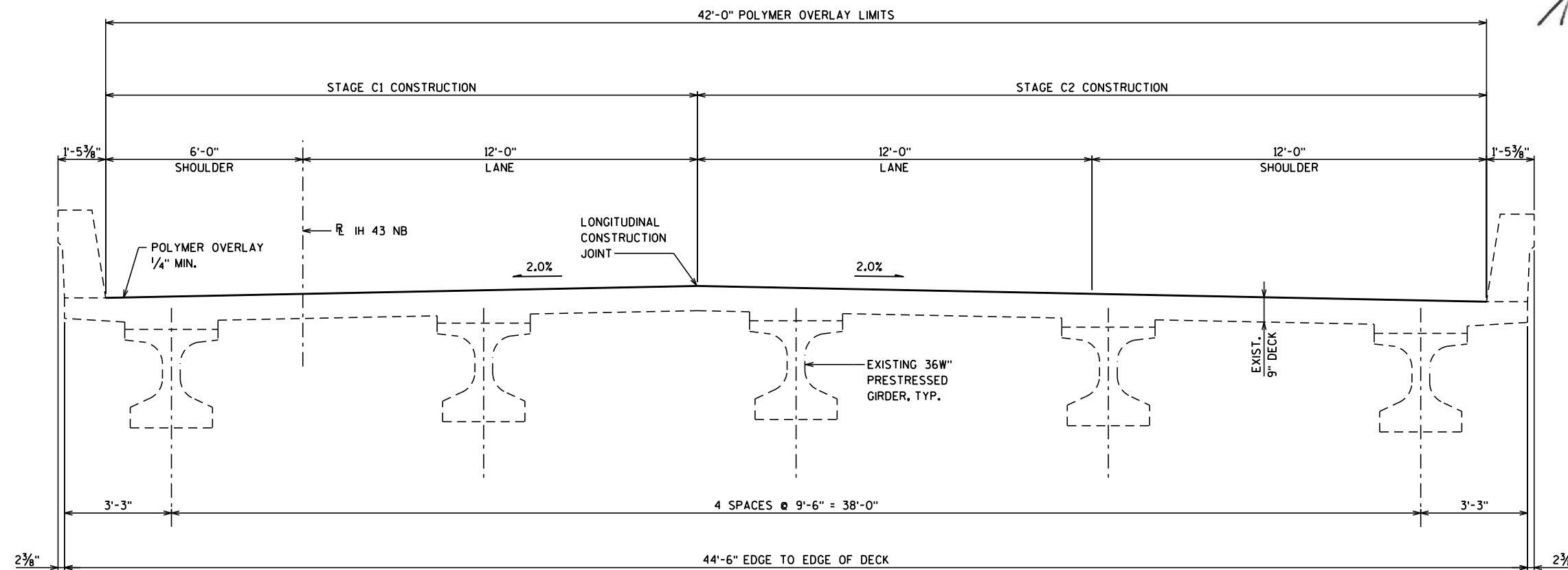
AARON BONK
 (608) 261-0261

CONSULTANT CONTACT

KRISTOFER OLSON
 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|--------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | SDR | | DATE |
| CHIEF STRUCTURES DESIGN ENGINEER | | 08/11/20 | |
| STRUCTURE B-36-230 | | | |
| IH 43 NB OVER POINT CREEK | | | |
| COUNTY | MANITOWOC | TOWN | CENTERVILLE |
| DESIGN SPEC. | REHABILITATION N/A | | |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

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DESIGN DATA

LIVE LOAD:
 DESIGN LOADING: HL-93
 INVENTORY RATING FACTOR: RF = 1.37
 OPERATING RATING FACTOR: RF = 1.77
 WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV): 250 KIPS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 DIMENSIONS ARE BASED ON EXISTING STRUCTURE PLANS.
 DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
 (X) INDICATES WING NUMBER.
 (●) SEE "CONSTRUCTION DETAIL - OVERLAY TRANSITION" FOR APPLICABLE END OF POLYMER OVERLAY.

TOTAL ESTIMATED QUANTITIES

509.5100.S POLYMER OVERLAY — 568 SY

TRAFFIC DATA

ADT = 11,800 (2036)
 RDS = 70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN



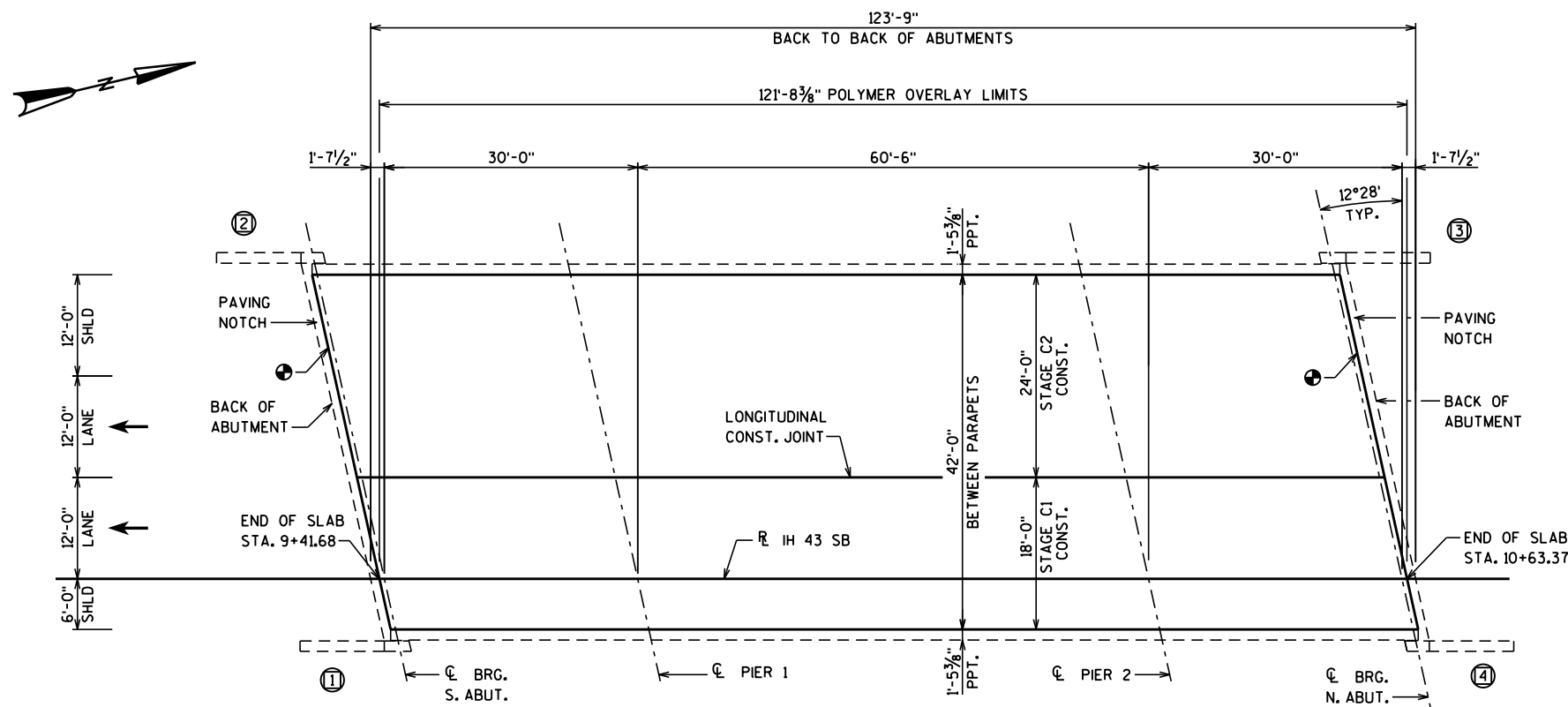
6/1/2020

BRIDGE OFFICE CONTACT

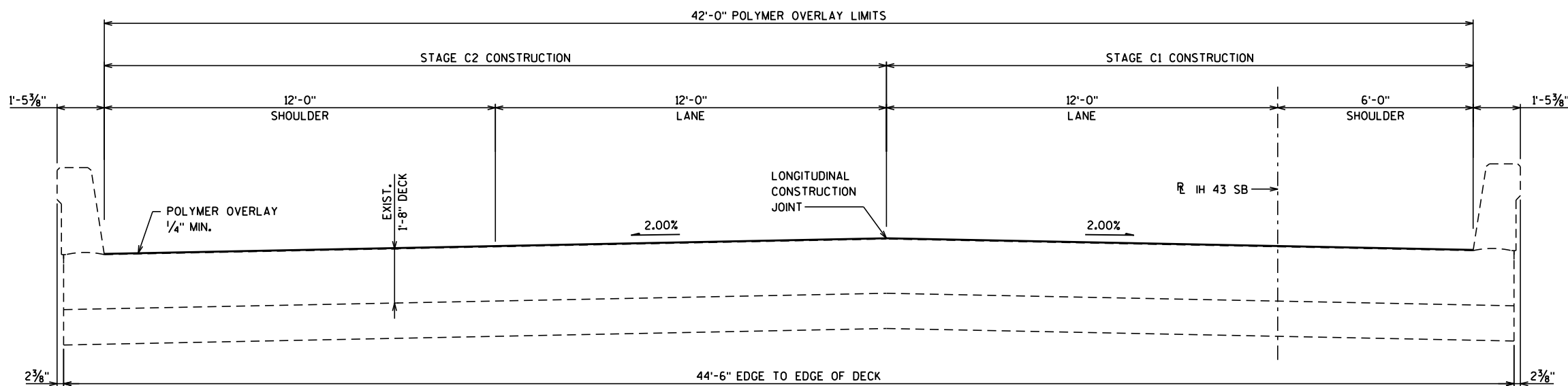
AARON BONK
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CONSULTANT CONTACT

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 OMNI ASSOCIATES
 (920) 735-6900



PLAN



CROSS SECTION THRU EXISTING ROADWAY

(LOOKING NORTH)

| NO. | DATE | REVISION | BY |
|--|--------------------|----------------------------------|--------------|
| ORIGINAL PLANS PREPARED BY | | | |
| OMNI ASSOCIATES | | | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | | | |
| ACCEPTED | <i>[Signature]</i> | SDR | 08/11/20 |
| | | CHIEF STRUCTURES DESIGN ENGINEER | DATE |
| STRUCTURE B-36-231 | | | |
| IH 43 SB OVER NEWTON RD | | | |
| COUNTY | MANITOWOC | TOWN | NEWTON |
| DESIGN SPEC. | REHABILITATION | N/A | LOAD HL-93 |
| DESIGNED BY | BRE | DESIGN CK'D. | KRO |
| DRAWN BY | NRT | PLANS CK'D. | KRO |
| GENERAL PLAN | | | SHEET 1 OF 1 |

8

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Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>